AMUNDSEN SEA EMBAYMENT PROJECT

Ocean Station Data

NB Palmer Cruise 09-01

January-February 2009

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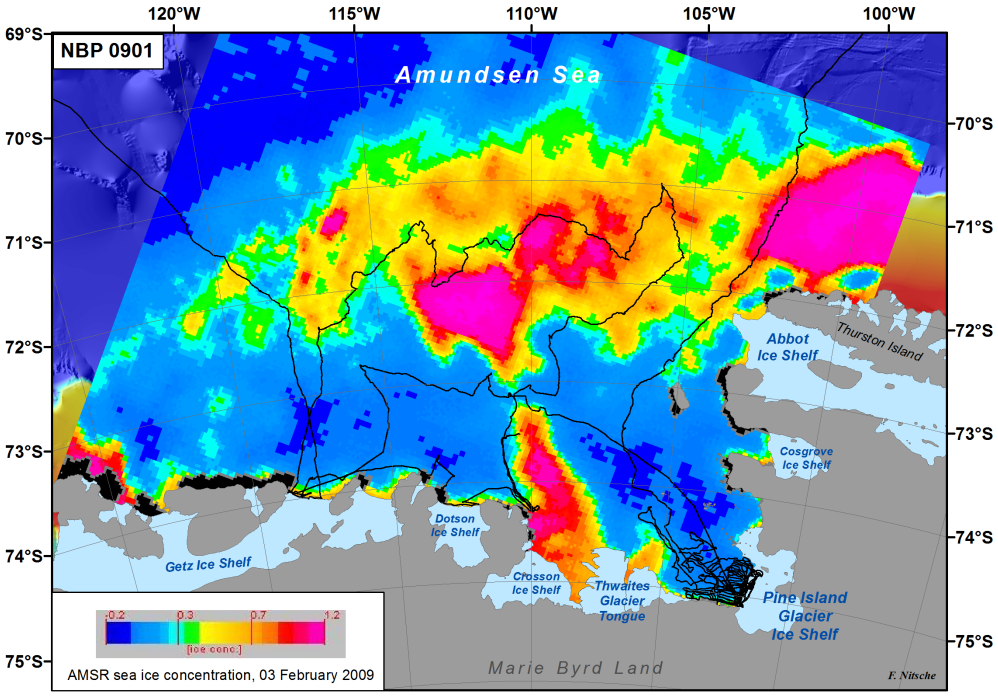

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LDEO–2011-1

NBP 09-01 **05 January – 28 February 2009**

Introduction

This report includes processed and edited ocean station data obtained in the Amundsen Sea during cruise 09-01 of the *Nathaniel B. Palmer*. The cruise extended from 05 January to 28 February 2009, Punta Arenas to Punta Arenas, Chile, and was part of the Amundsen Sea Embayment Projects (ASEP) initiated during the recent IPY time frame. The primary objective of the project was to acquire ocean data essential to an improved understanding of ocean forcing and its temporal variability on regional ice shelf change, especially in Pine Island Bay (Jacobs et al. 2011, e.g.). Other elements of this international ASEP component (S. Jacobs, A. Jenkins and H. Hellmer, PIs) included the setting of bottom-moored and ice-tethered instruments, swath-mapping the sea floor, expendable bathythermograph (XBT) casts, sea ice coring, snow sampling, photography, and sorties of the UK 'Autosub' AUV beneath the Pine Island Glacier Ice Shelf (PIG). Sea ice cover in the Amundsen Sea was relatively light during NBP0-01, as illustrated by the 03 February 2009 AMSR sea ice concentration (cover).

Ocean profiling was also undertaken in support of biological and gas sampling on a 'Dynalife' project (K. Arrigo & P. Tortell, PIs) and for a deep-ocean mooring near station #160 (X. Yuan & J. Sprintall, PIs). Eleven APEX drifters were deployed north of the Amundsen Sea continental shelf for another project (S. Riser, PI). Meteorological data were acquired continuously during the cruise, along with surface temperature, salinity and partial pressure of CO2 (T. Takahashi & C. Sweeney, PIs), and hull-mounted Acoustic Doppler Current Profiles to depths of ~300 m (E. Firing, PI).

Here we describe data acquisition and reduction procedures for the conductivity-temperature-depth/oxygen ('CTD') instrumentation, and present the measurements in vertical profiles and standard-level listings, along with Lowered Acoustic Doppler Current Profiles (LADCP), and discrete 'bottle' data obtained with a rosette sampler mounted above the CTD. Additional details about shipboard operations and sensors are available in an NBP09-01 Cruise Report and related technical reports at http://www.marine-geo.org/tools/search/entry.php?id=NBP0901.

CTD/Rosette Data Acquisition

During the cruise 160 CTD casts measuring conductivity, temperature, dissolved oxygen and pressure (depth) were made with a Sea-Bird SBE 9/11+ system and a 24 bottle SBE32 rosette

(Figures 1a & 1b; Table 1). CTD casts 58-81 comprise a 24-hour time-series, occupied at the southern end of the PIG front to determine the structure and temporal variability of outflow from its underlying cavity over a daily tidal cycle.

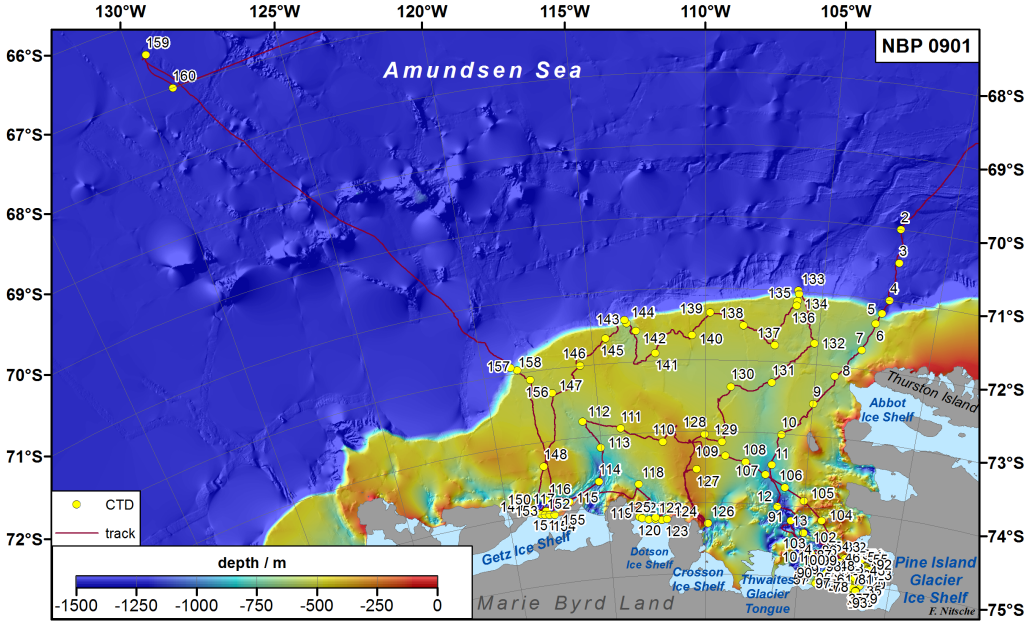

Figure 1a. NBP09-01 CTD station locations and ship track in relation to bathymetry and coastal features of the Amundsen Sea. Closely-spaced stations directly seaward of the Pine Island Glacier Ice Shelf are shown on a larger scale in Figure 2b.

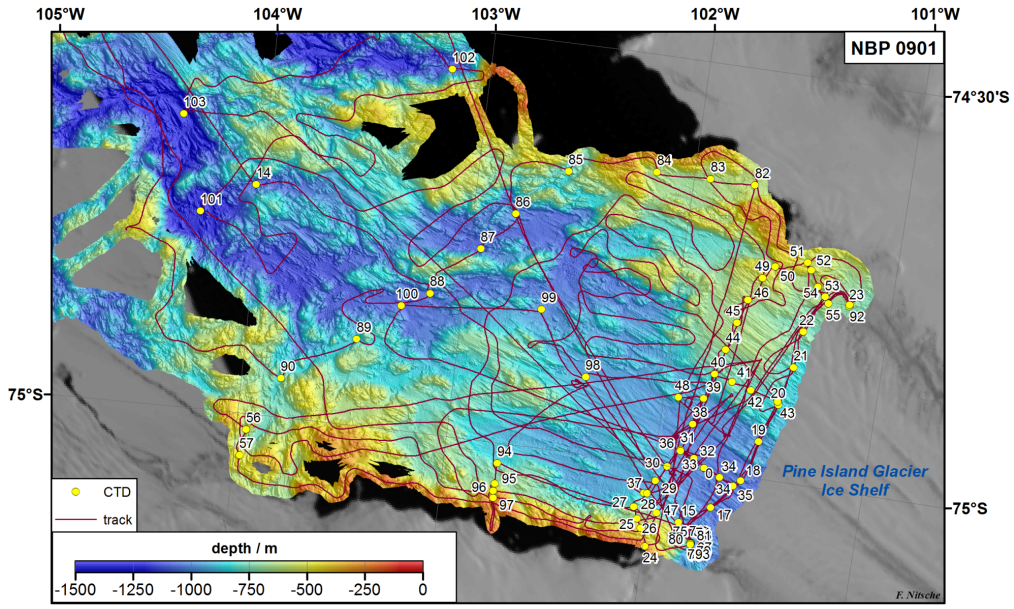

Figure 1b. NBP09-01 CTD station locations and ship track in Pine Island Bay, blown up from Figure 1a. Black areas are unmapped portions of the sea floor and gray regions are floating shelf ice to the east and west, and grounded continental ice to the south.

Table 1: NBP09-01 CTD stations. From left to right, read: cruise identification, downcast number, GMT date and time, station coordinates, maximum CTD depth (converted to pressure) and its closest approach to the sea floor (in meters), bottom depth, number of rosette samples, wind speed (m/s), true wind direction, air temperature (°C) and surface pressure (mbar). Entries of -9 under SAM indicate no water samples were taken.

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	001D	2009/01/10	16:37	-65.3519	-93.4761	1001	3720	4709	2	4.5	278	0.3	983.2
NBP0901	002D	2009/01/12	12:44	-69.9948	-102.0613	2001	2006	3977	6	5.8	77	-1.4	980.2
NBP0901	003D	2009/01/12	20:32	-70.4622	-101.9342	2015	1323	3308	8	7.2	94	-1.0	981.3
NBP0901	004D	2009/01/13	09:10	-70.9943	-102.1137	1772	8	1755	10	2.7	173	-1.4	982.1
NBP0901	005D	2009/01/13	13:56	-71.1880	-102.3652	1088	4	1079	7	4.2	142	-1.6	981.9
NBP0901	006D	2009/01/14	00:46	-71.3391	-102.5711	627	5	625	5	4.0	211	-1.3	979.4
NBP0901	007D	2009/01/14	05:37	-71.7278	-103.0358	738	8	737	8	4.7	208	-2.2	978.9
NBP0901	008D	2009/01/14	20:03	-72.1327	-104.1030	579	7	579	3	6.5	216	-1.1	977.7
NBP0901	009D	2009/01/15	05:57	-72.5474	-104.9719	541	9	544	6	2.9	221	-2.0	977.5
NBP0901	010D	2009/01/15	16:41	-73.0075	-106.3521	598	7	598	5	1.3	260	-1.1	977.2
NBP0901	011D	2009/01/15	23:11	-73.4421	-106.7231	882	9	880	8	4.8	95	-1.9	978.3
NBP0901	012D	2009/01/16	06:59	-74.0204	-106.3349	1186	9	1179	5	0.8	354	-1.2	979.5
NBP0901	013D	2009/01/16	12:09	-74.3602	-104.8908	1260	8	1251	9	5.5	28	-0.9	979.9
NBP0901	014D	2009/01/16	19:20	-74.7185	-104.0247	1083	9	1078	6	4.7	71	-1.3	981.0
NBP0901	015D	2009/01/17	02:25	-75.0668	-101.8463	943	10	941	12	6.9	117	-1.5	980.0
NBP0901	016D	2009/01/17	23:41	-75.0918	-101.7736	945	10	943	4	1.3	29	-1.4	978.0
NBP0901	017D	2009/01/18	01:50	-75.0435	-101.7046	1047	9	1042	7	0.1	130	-0.7	977.8
NBP0901	018D	2009/01/18	03:56	-75.0054	-101.5810	1065	9	1060	8	0.8	273	-0.9	978.1
NBP0901	019D	2009/01/18	05:31	-74.9548	-101.5239	983	9	979	6	1.1	92	-2.4	978.1
NBP0901	020D	2009/01/18	07:01	-74.9067	-101.4578	832	8	829	5	3.2	50	-3.2	978.5
NBP0901	021D	2009/01/18	08:48	-74.8582	-101.4119	777	11	779	6	2.4	24	-3.3	978.9
NBP0901	022D	2009/01/18	10:38	-74.8130	-101.3928	708	7	707	6	3.7	15	-2.1	978.8
NBP0901	023D	2009/01/18	12:28	-74.7737	-101.1968	713	9	714	7	2.3	6	-1.6	979.0
NBP0901	024D	2009/01/19	03:28	-75.1019	-101.9890	228	32	258	3	4.0	107	-0.2	978.2
NBP0901	025D	2009/01/19	04:15	-75.0808	-102.0208	444	11	450	3	4.1	135	-1.8	978.4
NBP0901	026D	2009/01/19	05:08	-75.0703	-102.0465	624	9	625	3	6.5	160	-2.7	978.7
NBP0901	027D	2009/01/19	06:09	-75.0562	-102.0684	756	8	755	3	5.0	154	-2.7	978.7
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NBP0901	031D	2009/01/19	11:30	-74.9781	-101.8846	996	10	993	3	8.1	122	-3.5	978.3
NBP0901	032D	2009/01/19	12:51	-74.9868	-101.8167	1018	9	1015	3	11.8	128	-3.3	978.5
NBP0901	033D	2009/01/19	14:11	-74.9963	-101.7614	1041	7	1035	3	11.1	130	-2.9	978.6
NBP0901	034D	2009/01/19	15:33	-75.0057	-101.6841	1065	8	1059	2	11.4	140	-3.1	978.2
NBP0901	035D	2009/01/19	17:10	-75.0132	-101.6133	1081	8	1076	4	10.8	138	-2.1	978.0
NBP0901	036D	2009/01/19	18:57	-74.9798	-101.8840	200	784	982	-9	10.3	139	-1.2	977.6
NBP0901	037D	2009/01/20	20:05	-75.0372	-102.0129	922	8	918	2	9.0	171	-1.2	983.5
NBP0901	038D	2009/01/20	23:08	-74.9450	-101.8435	1005	8	1000	4	10.6	157	-0.3	983.4
NBP0901	039D	2009/01/21	00:34	-74.9119	-101.8098	942	9	939	3	8.0	154	-0.2	983.1
NBP0901	040D	2009/01/21	01:57	-74.8803	-101.7774	782	9	782	4	6.6	163	-1.3	982.8
NBP0901	041D	2009/01/21	03:17	-74.8871	-101.6896	769	9	769	3	5.9	117	-1.6	982.9

NBP0901	042D	2009/01/21	04:22	-74.8940	-101.5956	766	9	766	3	6.1	118	-2.3	983.0
NBP0901	043D	2009/01/21	05:31	-74.9028	-101.4627	834	8	832	3	7.4	133	-4.4	983.8
NBP0901	044D	2009/01/21	11:35	-74.8484	-101.7409	675	10	676	2	14.2	150	-5.6	985.0
NBP0901	045D	2009/01/21	12:56	-74.8128	-101.7059	635	8	635	2	14.8	147	-6.2	985.4
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NBP0901	052D	2009/01/23	05:06	-74.7365	-101.3976	530	10	533	7	5.9	91	-2.1	980.7
NBP0901	053D	2009/01/23	06:04	-74.7555	-101.3558	599	9	601	7	9.0	55	-2.4	981.3
NBP0901	054D	2009/01/23	07:05	-74.7660	-101.3162	654	10	656	8	7.7	54	-2.5	981.8
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NBP0901	056D	2009/01/24	01:04	-75.0192	-103.9512	634	5	632	4	10.2	111	-2.0	983.7
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NBP0901	061D	2009/01/25	00:15	-75.0905	-101.7752	901	49	939	-9	4.6	108	-2.6	980.9
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NBP0901	074D	2009/01/25	13:00	-75.0900	-101.7739	800	148	938	-9	5.2	123	-5.2	982.0
NBP0901	075D	2009/01/25	14:00	-75.0904	-101.7752	801	145	937	-9	5.7	134	-5.7	982.3
NBP0901	076D	2009/01/25	14:59	-75.0903	-101.7750	801	147	938	-9	4.9	137	-5.6	982.3
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NBP0901	078D	2009/01/25	16:59	-75.0902	-101.7749	800	147	937	-9	3.6	136	-4.8	982.3
NBP0901	079D	2009/01/25	17:59	-75.0912	-101.7768	800	142	932	-9	4.1	128	-4.8	982.2
NBP0901	080D	2009/01/25	18:59	-75.0907	-101.7761	800	148	938	-9	3.9	142	-4.4	982.3
NBP0901	081D	2009/01/25	19:59	-75.0909	-101.7761	901	48	938	8	3.3	128	-3.8	982.3
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NBP0901	087D	2009/01/26	13:13	-74.7655	-102.9450	1078	9	1073	4	6.0	96	-1.6	981.4
NBP0901	088D	2009/01/26	15:10	-74.8275	-103.1563	1058	9	1053	5	7.7	123	-2.5	981.9
NBP0901	089D	2009/01/26	18:37	-74.8946	-103.4763	872	8	870	5	8.9	119	-2.8	983.0
NBP0901	090D	2009/01/26	21:07	-74.9521	-103.8123	725	13	776	5	11.0	116	-2.8	983.6

NBP0901	091D	2009/01/27	09:11	-74.2083	-105.5949	1628	9	1613	4	7.9	183	-3.0	984.7
NBP0901	092D	2009/01/28	12:15	-74.7715	-101.1954	667	9	668	5	2.8	352	-3.3	981.8
NBP0901	093D	2009/01/28	18:48	-75.0929	-101.7756	926	8	922	4	8.7	116	-6.7	982.0
NBP0901	094D	2009/01/28	22:05	-75.0253	-102.7422	789	9	788	5	10.8	114	-5.3	981.5
NBP0901	095D	2009/01/29	00:05	-75.0508	-102.7416	628	6	626	3	11.6	122	-5.6	981.3
NBP0901	096D	2009/01/29	01:12	-75.0600	-102.7449	413	7	415	4	11.5	116	-5.4	981.0
NBP0901	097D	2009/01/29	02:05	-75.0684	-102.7421	305	10	312	5	11.5	118	-5.5	980.7
NBP0901	098D	2009/01/29	13:52	-74.9057	-102.3782	945	9	942	4	13.0	135	-8.7	979.2
NBP0901	099D	2009/01/29	15:47	-74.8306	-102.6259	997	8	993	3	12.6	135	-7.2	979.3
NBP0901	100D	2009/01/29	18:43	-74.8471	-103.2853	1090	9	1084	5	14.1	123	-5.8	979.9
NBP0901	101D	2009/01/30	13:41	-74.7577	-104.2704	1224	7	1215	6	4.8	156	-6.6	993.2
NBP0901	102D	2009/01/30	20:31	-74.5507	-103.1758	1079	11	1076	3	2.8	210	-4.4	994.6
NBP0901	103D	2009/01/31	03:17	-74.6404	-104.3949	1516	9	1504	4	5.3	237	-5.9	995.2
NBP0901	104D	2009/01/31	18:01	-74.1660	-104.0021	316	8	321	2	2.3	136	-4.2	997.6
NBP0901	105D	2009/01/31	22:06	-73.9172	-104.9976	304	9	310	2	0.9	122	-2.8	998.4
NBP0901	106D	2009/02/01	01:23	-73.7502	-106.0015	869	9	867	2	3.2	82	-2.0	997.8
NBP0901	107D	2009/02/01	05:04	-73.5843	-106.9997	605	368	966	2	5.5	73	-2.0	997.4
NBP0901	108D	2009/02/01	09:13	-73.4170	-108.0022	631	11	634	2	7.3	64	-3.0	997.5
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NBP0901	114D	2009/02/03	07:00	-73.6339	-115.2551	918	9	915	3	14.8	100	-1.3	1001.3
NBP0901	115D	2009/02/03	11:51	-73.8767	-116.8285	1142	9	1137	7	17.8	92	-1.4	999.6
NBP0901	116D	2009/02/03	15:13	-73.8166	-117.9851	1209	8	1201	4	14.6	77	-1.7	998.2
NBP0901	117D	2009/02/03	21:54	-73.9613	-118.0451	1274	13	1270	5	6.9	137	-1.9	996.6
NBP0901	118D	2009/02/04	13:27	-73.7132	-113.2891	840	6	836	8	14.9	133	-2.2	991.1
NBP0901	119D	2009/02/04	18:48	-74.1729	-113.3390	589	5	587	6	7.1	177	-3.7	989.8
NBP0901	120D	2009/02/04	21:16	-74.1924	-113.2117	812	9	811	4	5.7	162	-2.3	988.3
NBP0901	121D	2009/02/04	22:55	-74.2169	-112.8746	745	9	745	5	6.5	139	-2.7	987.3
NBP0901	122D	2009/02/05	00:42	-74.2171	-112.5311	1184	10	1178	8	5.8	137	-2.7	986.8
NBP0901	123D	2009/02/05	02:47	-74.2296	-112.1939	1013	10	1010	7	6.5	133	-1.9	985.8
NBP0901	124D	2009/02/05	04:23	-74.2202	-111.9415	593	10	595	7	10.3	93	-1.0	984.7
NBP0901	125D	2009/02/05	07:41	-74.1927	-112.5208	1066	9	1061	7	6.4	129	-1.7	984.8
NBP0901	126D	2009/02/06	09:18	-74.2856	-109.8449	892	12	892	8	12.2	165	-3.4	974.3
NBP0901	127D	2009/02/07	00:14	-73.5275	-110.4145	314	8	318	3	6.6	85	0.1	977.1
NBP0901	128D	2009/02/07	19:47	-73.0386	-110.0176	431	10	436	3	4.7	107	-0.1	981.1
NBP0901	129D	2009/02/07	22:36	-73.1406	-109.1784	456	9	459	-9	6.5	111	0.1	981.9
NBP0901	130D	2009/02/08	09:19	-72.3675	-108.8011	537	8	539	4	4.8	126	-0.4	983.8
NBP0901	131D	2009/02/08	17:05	-72.2925	-106.9414	683	9	683	4	3.9	196	-0.9	984.7
NBP0901	132D	2009/02/09	09:20	-71.7067	-105.1583	532	9	534	6	6.4	206	-2.0	985.5
NBP0901	133D	2009/02/09	21:31	-70.9884	-106.0194	1540	6	1525	4	8.7	225	-3.3	989.1
NBP0901	134D	2009/02/10	01:26	-71.0338	-105.9754	1084	8	1078	3	10.4	216	-4.2	989.8
NBP0901	135D	2009/02/10	04:15	-71.1342	-106.0301	515	7	516	2	10.3	202	-4.5	990.1
NBP0901	136D	2009/02/10	06:08	-71.1982	-106.0557	515	10	518	2	10.8	185	-4.8	990.2
NBP0901	137D	2009/02/10	13:37	-71.7665	-106.8981	527	4	525	3	8.4	196	-5.1	990.2
NBP0901	138D	2009/02/10	23:50	-71.5071	-108.3131	490	9	493	2	7.6	207	-5.2	987.8
NBP0901	139D	2009/02/11	05:51	-71.3345	-109.7778	461	8	463	2	7.0	189	-6.7	986.0

NBP0901	140D	2009/02/11	10:58	-71.6515	-110.5772	471	7	473	3	4.1	189	-7.2	983.9
NBP0901	141D	2009/02/12	01:00	-71.8878	-112.2220	530	8	532	4	9.3	176	-3.5	981.1
NBP0901	142D	2009/02/12	11:26	-71.5678	-113.0306	598	8	599	3	8.6	173	-3.4	983.3
NBP0901	143D	2009/02/12	15:39	-71.4546	-113.4202	633	7	633	5	7.6	178	-2.8	984.3
NBP0901	144D	2009/02/12	18:56	-71.4088	-113.4991	1079	8	1074	5	8.4	194	-3.6	985.1
NBP0901	145D	2009/02/13	00:00	-71.6451	-114.3914	455	9	459	3	7.3	183	-3.5	986.3
NBP0901	146D	2009/02/13	08:44	-71.9945	-115.6137	445	7	448	2	4.9	203	-4.2	987.5
NBP0901	147D	2009/02/13	15:06	-72.3353	-117.0063	519	8	521	6	2.9	284	-4.2	988.0
NBP0901	148D	2009/02/13	23:14	-73.3374	-117.8593	358	9	364	2	4.2	353	-3.4	988.4
NBP0901	149D	2009/02/14	04:38	-73.9225	-118.8248	751	0	742	7	6.6	198	-9.6	989.0
NBP0901	150D	2009/02/14	05:57	-73.9396	-118.6683	1467	9	1455	8	6.1	214	-7.8	989.3
NBP0901	151D	2009/02/14	07:47	-73.9754	-118.5022	1336	9	1327	8	6.3	218	-7.9	989.4
NBP0901	152D	2009/02/14	09:43	-73.9960	-118.3115	1061	62	1109	7	10.1	228	-10.4	989.7
NBP0901	153D	2009/02/14	11:36	-74.0112	-118.1313	1006	9	1002	7	10.8	225	-12.1	990.3
NBP0901	154D	2009/02/14	14:10	-74.0187	-117.9006	1203	9	1196	7	10.3	181	-13.1	990.2
NBP0901	155D	2009/02/14	16:27	-74.0283	-117.6504	640	8	640	6	8.3	232	-11.9	990.3
NBP0901	156D	2009/02/15	04:57	-72.1119	-117.9226	505	8	507	4	3.1	289	-3.2	990.5
NBP0901	157D	2009/02/15	08:30	-71.9527	-118.4407	593	7	593	3	5.3	305	-2.8	990.6
NBP0901	158D	2009/02/15	10:23	-71.9019	-118.7205	1113	7	1105	4	3.6	289	-2.8	991.0
NBP0901	159D	2009/02/17	05:46	-66.4496	-129.4709	1201	3416	4602	5	13.2	45	-0.1	981.7
NBP0901	160D	2009/02/18	04:07	-66.9998	-128.9678	4498	8	4415	6	11.0	267	0.4	982.0

Dual sensors and pumps were mounted vertically on a horizontal frame connected to the bottom of the rosette frame (Figure 2). A single pressure sensor rated to 6,000 dbar provided depth information. The CTD was typically lowered at 20-30 m/minute from the surface to 100 m, 50 m/minute below 100 m, and was raised at 50-60 m/minute. With several exceptions in deep water and on the time-series station, casts were made to within 10 m of the sea floor using a Benthos PSA-916 altimeter and a SBE bottom contact switch with a 10-m line. The conducting cable end termination was replaced before the first station and again before casts 7, 104 and 109 to resolve intermittent transmission errors. CTD data were acquired at 24 Hz with SeaBird SeaSave software, version 7.14, on a PC running Windows XP, integrated with the ship's NEMA 1 Hz GPS to provide a position for each CTD scan. Initial processing for use aboard ship was carried out following cast completion using SeaBird SBE Version 7.14e software.

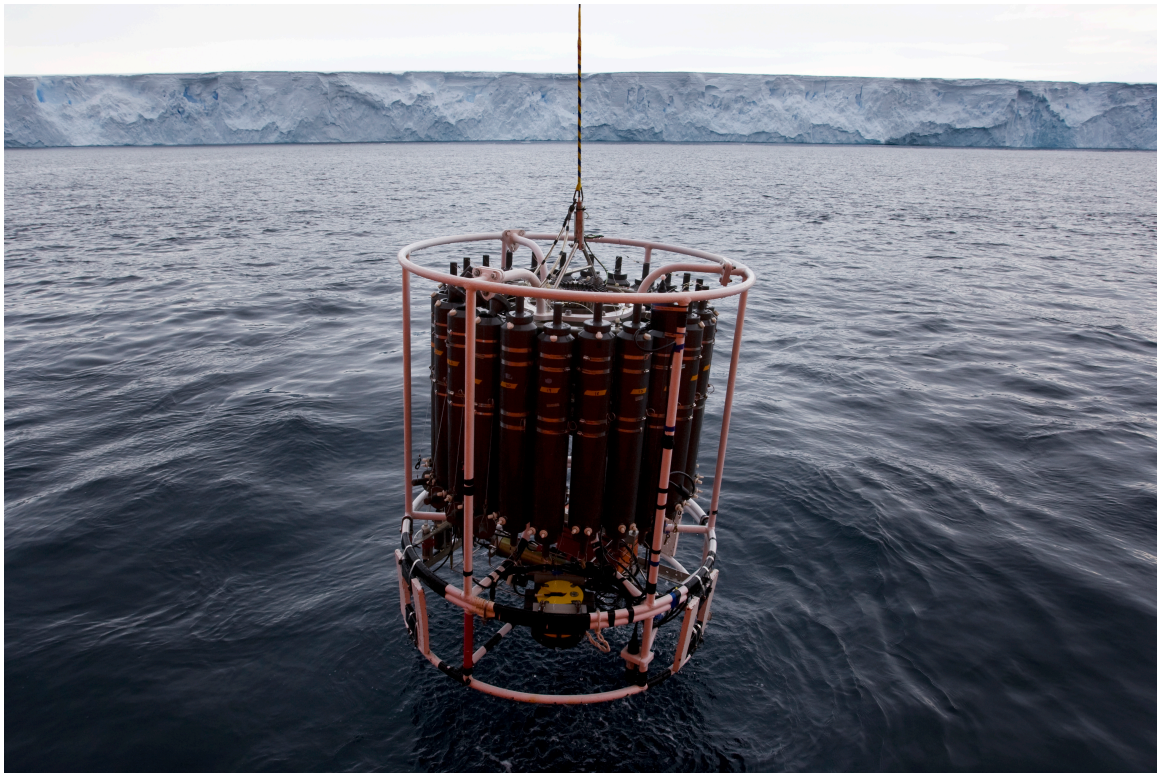

Figure 2. The CTD and transmissometer were mounted horizontally beneath the 24-bottle rosette, shown here emerging from the water near the Pine Island Glacier Ice Shelf. Also visible are the downward-looking LADCP (yellow) and its battery back (orange). (@ M. Stenzel)

Post-cruise CTD data processing

CTD data were reprocessed at Lamont with Seasoft version 7.19 software, generally following standard procedures (www.seabird.com). Measurements during CTD descent provide the cleanest record, as its sensors precede the rosette and cable through the water column. We report both descending and ascending profiles because rosette bottles were closed at stops during the 'upcast' and valid spatial and temporal differences often occur during the time of a single station. CTD bottle files were generated from data averaged over 2 seconds around rosette bottle closure time.

The CTD sensors were calibrated in 2008 (pressure in 2007), and the temperature, conductivity and dissolved oxygen sensors from which data are reported here were re-calibrated after the cruise by Seabird Electronics. Primary sensor temperatures were corrected by linear interpolation between pre-cruise and post-cruise calibrations, which showed a drift of 0.00086 °C/yr. Primary conductivity sensor values were converted to salinity using post-cruise calibration coefficients, and adjusted to an edited subset of water sample measurements (below). CTD descent data were replaced by ascent measurements over ~100 m on station 10, and salinity near bottom on CTD 85 is from the secondary sensor. Dissolved oxygen profiles were processed using the secondary sensor output with post-cruise calibration coefficients, and similarly fit to bottle oxygen titrations (below), which differed by 0.15 ± 0.07 ml/l prior to bias adjustment. In addition to 'wild edit' routines, sensor values were corrected for cell thermal mass effects, low-pass filtered, and advanced as appropriate to correct for temperature gradients. The upper few meters of most casts were removed during processing, along with density inversions >0.02, and a 3-point median filter applied after averaging into 1 dbar bins.

ADCP Data Acquisition and Processing

A 300 kHz RDI Lowered Acoustic Doppler Current Profiler (LADCP, SN 754) was attached to the CTD frame, facing downward (Figure 2), and deployed on each cast to profile horizontal water velocity with depth. Water column scatterers were abundant, broken beams were not, and data were acquired on all stations except CTD 1 and 116. Data files were processed in Matlab using the Thurnherr version IX.5 of the processing code, which incorporates CTD and hull-mounted (SADCP) information to provide navigation and constrain the LADCP velocity profiles. The SADCP employed was an RDI 150 kHz narrowband instrument that typically obtained valid data to depths of 250-280 m. SADCP data are separately processed and archived at the University of Hawaii: (http://currents.soest.hawaii.edu/nbpalmer/year2009.html - nbp0901).

Light scattering measurements

Single fluorometer, transmissometer, and PAR sensors were also attached to the CTD/rosette on most casts; only the light scattering results are reported here. A Chelsea/SeaTech/Wet Labs C-Star transmissometer acquired voltage data (V) that was converted to light transmission (LT) for the descent portion of each cast. LT (%) = (M x V) + B, using the calibration coefficients M = 21.0770 and B = -1.1840. Alternatively, beam attenuation coefficient (c) can be calculated as a function of instrument path length, z = 0.25 m, and light transmission: c = (1/z) x ln (LT [decimal]). M, B and z are input to the CTD configuration file.

Light transmission data were only utilized qualitatively during NBP09-01 and no effort was expended to maintain clean windows or acquire water samples for comparison. Subsequent interest led to an evaluation suggesting sensor change during the cruise, based on the clearest deep-water values on early and late stations (Figure 3). More quantitative work could thus require a drift correction of up to 1.5 – 2% in light transmission. The aggregation of LT values near 95% midway on that figure corresponds to the 24-hr time-series station. Reported values have been smoothed with a 3-point median filter.

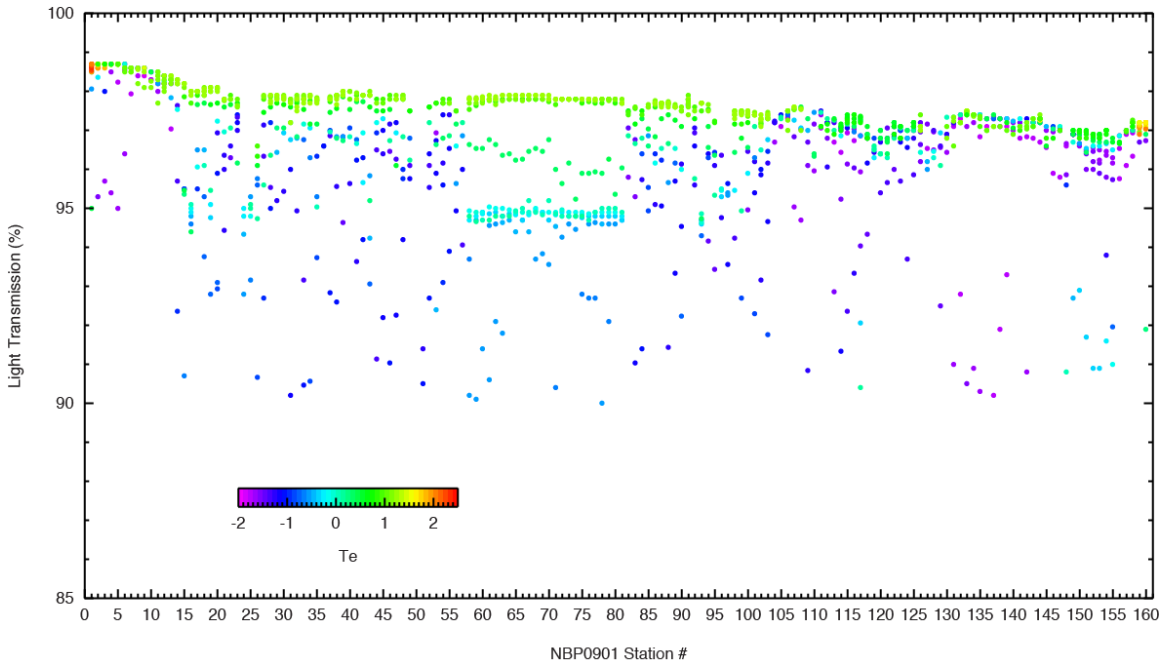

Figure 3. Percent light transmission (>90%) on each CTD cast during NBP 09-01, at 100-dbar intervals, color-coded by in situ temperature. The clearest water and highest values typically occur at depths below the Circumpolar Deep Water temperature maximum, and could be expected to be similar at deep off-shelf stations in Figure 2a, near the beginning and end of this record. (C.F. Giulivi figure)

Seawater sampling

Ten liter "Bullister" bottles on the rosette were closed during CTD ascent to obtain water samples for analyses of dissolved oxygen, salinity, oxygen isotopes, and total CO2. Sampling was generally sparse due to the relatively shallow water depths, large number of stations and limited supplies. Two or more rosette bottles were typically closed at each sample depth and on some casts more than one of them was sampled. Dissolved oxygen and salinity samples were analyzed aboard ship; oxygen isotope and total CO2 samples were returned to U.S. laboratories for analyses. Shallow samples were also drawn for nutrient and other analyses by the Arrigo and Tortell group, but are not reported here.

Salinity

The SeaBird CTD conductivity sensors typically provide stable, high-quality salinity data after post-cruise re-calibration and processing to account for thermal gradients and occasional spiking. Nonetheless, offsets can occur due to freezing temperatures, physical shocks and other events. We thus utilize dual sensors when possible and monitor their performance and that of the rosette bottles with salinity samples processed aboard ship. Samples taken in property gradients and near the sea surface can appear as outliers in rosette/CTD comparisons and are not used in evaluating possible sensor bias and drift.

During NBP09-01, 506 rosette salinity samples were processed on a Guildline SN 61-670 Autosal salinometer. Laboratory temperature was maintained within 2°C below the Autosal bath temperature setting of 24°C, and data capture used the ACI 20000 hardware/software package (http://www.osil.co.uk). On each 'run' ~48 samples were processed, with calibration provided by IAPSO Standard Seawater batch P149 (Oct 2007) at the start and a new vial of P149 or P148 at the end. Batch comparisons showed no significant salinity difference. Salinity was calculated according to the Practical Salinity Scale of 1978 (UNESCO, 1981), using three or more conductivity ratio determinations.

On a test station (CTD #1) samples drawn from 20 rosette bottles near 1000 m identified three bottles requiring inspection and monitoring, without which the remaining salinities differed by up to 0.002, with a standard deviation of 0.0008. Comparisons between bottle salinities and the CTD conductivity sensor salinities did not reveal sensor offsets, but suggested a minor drift in the

secondary conductivity sensor. Bottle salinities reported here exclude values >2σ from the cruise mean rosette-CTD difference.

Dissolved Oxygen

The SBE 43 dissolved oxygen sensors used on the CTD were rated in accuracy at 2% of saturation and in stability at 2%/1000 hours. Potential sensor drift and offsets were monitored via 407 samples collected for Winkler titration from 126 CTD stations. The Langdon (1984) amperometic titrator was employed on ~140 ml seawater samples, along with >30 blanks and 125 standards. Sampling was limited by an insufficient supply of chemicals, rationed to extend through the final station. Dissolved oxygen samples were drawn and pickled immediately after each cast, from the deepest bottles first, and before any other water collection. Titrated values displayed significant noise relative to the 'primary' oxygen sensors used during the cruise but most were well correlated with the single secondary sensor, from which the final data are derived, except for CTD 160. Bottle oxygen data reported here are within 3σ of the average difference between titrated and CTD oxygen sensor values.

Oxygen Isotopes

Seawater samples were drawn on selected stations for later oxygen isotope analysis. Sampling was concentrated near and above the pycnocline, likely to contain evidence of glacial meltwater, and in the surface and temperature minimum layers, in most locations more influenced by sea ice melting and freezing. This report includes only the subset of 455 δ18O samples acquired that have been processed at the Rutgers University oxygen isotope laboratory. $H_2{}^{18}O/H_2{}^{16}O$ ratio measurements were made on a FISONS OPTIMA Mass Spectrometer equipped with a MicroMass Multiprep automatic sample processing system after water sample equilibration with CO_2 using standard methods (Ekwurzel et al., 2001, e.g.). All samples were run in duplicate. Oxygen isotope ratios are reported as the per mil (δ) deviation of the $^{18}O/^{16}O$ ratio of the sample from that of Vienna Standard Mean Ocean Water (VSMOW). Precision is estimated to be $\pm$0.03 per mil (1σ) as determined by multiple daily analyses of laboratory standard DDW-3. Instrument linearity and accuracy was determined by comparison of DDW-3 to NBS standard water VSMOW, GISP, and SLAP. Accuracy is estimated to be within 0.03 per mil by comparison of measurements of North Atlantic Bottom Water with VSMOW.

Total Carbon Dioxide

In conjunction with the underway pCO_2 monitoring project, samples were drawn twice daily for total CO_2 (TCO_2) from the ship's uncontaminated seawater line. CTD/rosette casts along two roughly N-S transects across the continental shelf were lightly sampled for TCO_2, but sufficient to define the shelf water column and complement TCO_2 sampling in the Amundsen Sea during NBP cruise 94-02. Several deeper samples were taken for reference. Duplicates on CTD 7 and 15 and several samples from CTD 160, at the 1992 *Ioffe* S4P station 727 site, were shipped to the University of Washington for ^{14}C analysis. Most TCO_2 samples were processed at Lamont, as described in Rubin et al. (1998), and are archived at the CDIAC (Carbon Dioxide Information and Analysis Center (http://cdiac.ornl.gov).

Related ASEP Observations

Moored Time-Series Instruments

The summer ocean station data reported here and acquired during prior Amundsen Sea cruises reveal significant spatial and interannual variability in the ocean properties and structure. In order to extend that information over annual and longer cycles, we deployed 15 moored instrument arrays during NBP09-01, following an earlier deployment of 5 moorings from the Polarstern, in 2006. All were bottom-anchored, except for a single Ice Tethered Profiler of the type recently used by WHOI investigators in the Arctic (Figure 4). Temperature, salinity, pressure and current sensors were concentrated near the sea floor and in the lower pycnocline, with most mooring tops below 350 m to avoid drifting icebergs. Eighty percent of the 2006 deployments were recovered during NBP07-02, but only 20% of the early 2009 moorings were retrieved in 2010 and 2011 due to limited ship time, heavy sea ice cover and apparent flotation failure. Further recovery attempts have been scheduled, and the processed mooring data will be reported separately.

Figure 4. Deployment of an Ice Tethered Profiler through the fast ice above a deep trough several kilometers south of CTD 126. (@ M. Stenzel)

AUV Measurements

Deep-draft ice shelves and other glacier extensions along the southern and eastern perimeter of the Amundsen Sea melt at various rates in the 'warm' Circumpolar Deep Water (CDW) that flows onto its continental shelf and into the ice shelf cavities. One of two projects designed to directly measure the distribution of seawater properties beneath the PIG and its influence on the grounding line position and glacier speed came to fruition during NBP09-01. UK investigators from the British Antarctic Survey (BAS) and National Oceanography Center, Southampton, deployed an autonomous underwater vehicle (AUV), Autosub-III (Figure 5) on six missions beneath the ice shelf. The AUV was equipped with a Seabird 9+ CTD including an SBE43 dissolved oxygen sensor, a Wetlabs transmissometer, Simrad EM2000 multibeam echosounder, and RDI 300 and 150 kHz ADCPs. During a 2-week period from 17-30 January 2009, Autosub-III covered 510 km during 94 hours beneath the PIG. Results reported by Jenkins et al. (2010) are based on AUV data to be archived at the BODC. See also Data Archival below.

Figure 5. Autosub III during retrieval off the stern of the NB Palmer after an NBP09-01 mission beneath the Pine Island Glacier Ice Shelf. (@ M. Stenzel)

Sea Floor Mapping

A key factor in ocean-ice shelf interactions is the morphology of the continental shelf, which can accumulate locally formed near-freezing shelf waters and CDW derivatives over periods of several years. In particular, deep troughs carved into the sea floor during past intervals of ice sheet advance now funnel nearly undiluted CDW toward vulnerable ice shelf grounding zones in some locations. Considerable effort has thus been expended to define the broad outlines of the Amundsen Sea continental shelf and map its bathymetric details on NB Palmer 'oceanographic' cruises in 1994, 2000, 2007 and 2009. During NBP09-01 the swath-mapping focused on the Pine Island Bay region seaward of the PIG in the SE corner of the continental shelf. In combination with multibeam records obtained by the JC Ross, Polarstern and Oden, these efforts are leading to improved bathymetric charts (Nitsche et al., 2007, e.g.) and improved understanding of ice-ocean-sea floor interactions in this sector. A current version of the Amundsen shelf bathymetry (Figure 6) provided the context for many of the ocean stations occupied there during NBP09-01. See also Data Archival below.

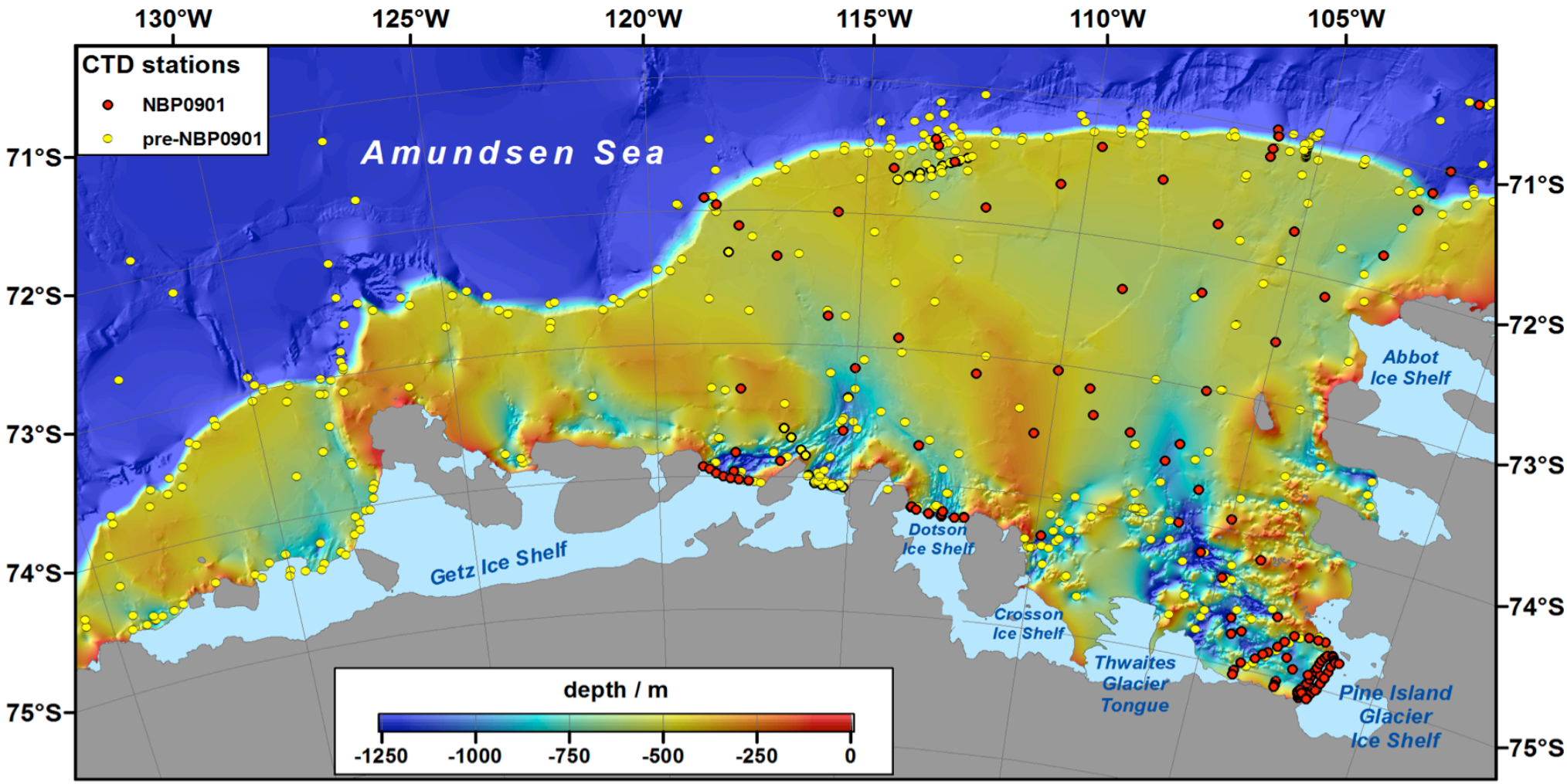

Figure 6. Bathymetry of the Amundsen Sea continental shelf relative to the West Antarctic coastline and deeper Southern Ocean, with most CTD stations occupied from 1994- 2009. The NBP09-01 CTD positions (red) overlie the locations of some earlier stations occupied by the NB Palmer, JC Ross, Polarstern and Oden, particularly near the Pine Island Glacier, Dotson and Getz Ice Shelves. (F. Nitsche figure)

Data in this report

Post-cruise processed CTD/O, LADCP, light transmission and rosette bottle data acquired during NBP09-01 are presented in tabular and graphical form, plus several derived parameters for each station. The tabular information includes space and time coordinates, surface meteorology at cast start time, 'standard level' selections from 1-m corrected measurements (20-m for LADCP), and calculated values such as potential temperature, densities, sound velocity and depth. The standard levels reported for CTD ascent profiles do not include light scattering and current observations, and on several deeper stations are truncated beyond a single full page. Rosette bottle files provide the CTD-derived salinity and dissolved oxygen along with edited water sample data, including a subset of the δ18O samples processed to date. Plots show potential temperature, salinity and dissolved oxygen during CTD descent and ascent, with associated bottle data, and current components u and v, positive east and north. Each plot also displays the T/S and x,y coordinates of that cast relative to other stations on the cruise.

Station header information

SHPCRUS = ship and cruise, NBP for Nathaniel B. Palmer, 0901 for its first cruise in 2009
STNM = CTD station number and mode, D = CTD descent, U = CTD ascent, B = rosette bottles
YEAR/MO/DA = date
GTIME = Greenwich Mean Time, at the start (D), bottom (B) and end (U) of each CTD cast
LATITUDE, LONGITUDE = decimal GPS coordinates at GTIME, negative south and west
PRMAX = CTD cast maximum depth (dbar pressure)
HT = distance above PRMAX depth, from acoustic altimeter or bottom-contact device (m)
WDPTH = Water depth (±1 m) from PRMAX + HT (m)
SAM = number of levels sampled during CTD ascent
WNS = wind speed (m/s)
WND =wind direction (°true)
AIRTM = air temperature (°C)
BAROM = surface pressure (mbar)

Data fields

PRES = pressure at the shallowest, standard and deepest measurement levels (dbar)
TEMPCTD = corrected temperature, IPTS 1968 (°C)
POTEMP = potential temperature (°C) from UNESCO (1983)

TE>FRZ = temperature (°C) above the in-situ freezing point, after UNESCO (1978)

TE>FRS = temperature (°C) above the sea surface freezing point, after UNESCO (1978)

SALCTD = corrected CTD salinity, Practical Salinity Scale (UNESCO 1981)

OXCTD = CTD dissolved oxygen (ml/l and mm/kg) from in-situ potential density

TRANS = light transmission (%)

SIGMA-0 = potential density anomaly referenced to 0 dbar (kg/m^3), from UNESCO (1983)

DENSITY = in-situ density (kg/m^3)

ANOMA = specific volume anomaly (10^{-8} m^3/kg)

GEOPT = dynamic height (m) relative to the sea surface

SVELOC = sound velocity (m/s) after Chen & Millero (1977)

LADSP, LADIR = Lowered Acoustic Doppler Current Profile speed (m/s), and direction (°true)

DPTH = depth (m) converted from pressure, after Saunders (1981)

SALBOT = Rosette salinity (Practical Salinity Scale)

OXBOT = Dissolved oxygen (ml/l and um/kg) from titrated water samples

TCO_2 = total carbon dioxide (um/kg)

$\delta^{18}O$ = oxygen-18/oxygen-16 ratio, relative to Vienna Standard Mean Ocean Water (‰)

BN = rosette bottle number, merged where more than one was closed at the same depth

Vertical Profiles

Solid and dashed profiles at right show potential temperature (blue), salinity (red) and dissolved oxygen (green) to 1520 dbar during CTD descent and ascent through the water column. Solid dots indicate rosette salinity measurements and open squares rosette dissolved oxygen values. Profiles at left are LADCP velocity components, red for u (positive east) and blue for v (positive north). Coordinates in degrees and minutes correspond to cast start times. Inset figures show profile position and T/S properties relative to other 09-01 stations.

Data archival

Processed CTD data have been reported to the National Oceanographic Data Center and may be accessed at http://www.nodc.noaa.gov/archive/arc0032/0071179/1.1/data/0-data, with related information at http://data.nodc.noaa.gov/accession/0071179. Processed ocean station data have also been reported to the GEOTRACES database at the British Oceanographic Data Center. Shipboard (uncorrected and undecimated) CTD measurements and related metadata may be accessed at the Antarctic-Southern Ocean Data Portal of the Marine Geoscience Data System, along with a digital version of this report, multibeam bathymetry, XBT data and other materials at

http://www.marine-geo.org/tools/search/entry.php?id=NBP0901. Questions about multibeam data may be referred to fnitsche@ldeo.columbia.edu, AUV data to pitr1@bas.ac.uk, ASEP mooring and LADCP measurements to bhuber@ldeo.columbia.edu, and ocean station data to sjacobs@ldeo.columbia.edu or claudiag@ldeo.columbia.edu.

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References

Chen, C. & F. Millero (1977) Speed of sound in seawater at high pressures. *J. Acoust. Soc. Am.* **62**(5), 1129-1135.

Ekwurzel, B., P. Schlosser, R. Mortlock, R. Fairbanks & J. Swift (2001) River runoff, sea ice meltwater, Pacific water distribution and mean residence times in the Arctic Ocean. *J. Geophys. Res.* **106**(C5), 9075-9092.

Jacobs, S., A. Jenkins, C. Giulivi & P. Dutrieux (2011) Stronger ocean circulation and increased melting under Pine Island Glacier ice shelf. *Nature Geoscience,* pub. online 26 June 2011, doi:10.1038/ngeo1188.

Jenkins, A., P. Dutrieux, S. Jacobs, S. McPhail, J. Perrett, A. Webb & D. White (2010) Observations beneath Pine Island Glacier in West Antarctica and implications for its retreat. *Nature Geoscience*, pub. online 20 June 2010, doi:10.1038/ngeo890.

Langdon, C. (1984) Dissolved oxygen monitoring system using a pulsed electrode: design, performance and evaluation. *Deep-Sea Res.* **31**, 1357-1367.

Nitsche, F., S. Jacobs, R. Larter & K. Gohl (2007) Bathymetry of the Amundsen Sea continental shelf: Implications for geology, oceanography and glaciology. *Geochemistry Geophysics. Geosystems,* **8**(10), doi:10.1029/2007GC001694.

Rubin, S., J. Goddard, D. Chipman, T. Takahashi, S. Sutherland, J. Reid, J. Swift & L. Talley (1998). Carbon dioxide, hydrographic and chemical data obtained in the South Pacific Ocean

(WOCE Sections P16A/P17A, P17E/P19S and P19C, R/V Knorr, October 1992 – April 1993). NRNL/CDIAC-109, NDP-065, 124 pp.

Saunders, P. (1981) Practical conversion of pressure to depth. *J. Phys. Ocean.* **11**(4), 621-623.

UNESCO (1978) Freezing point of seawater. Eighth report of the Joint Panel of Oceanographic Tables and Standards, *UNESCO Technical Papers in Marine Science* **28**, 29-35.

UNESCO (1981) Background papers and supporting data on the Practical Salinity Scale 1978. *UNESCO Technical Papers in Marine Science* **37**, 144 pp.

UNESCO (1983) Algorithms for computation of fundamental properties of seawater. N. Fofonoff & R. Millard, *UNESCO Technical Papers in Marine Science* **44,** 53 pp.

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**001D**	2009/01/10	16:37	-65.3519	-93.4761	1001	3720	4709	2	4.5	278	0.3	983.2

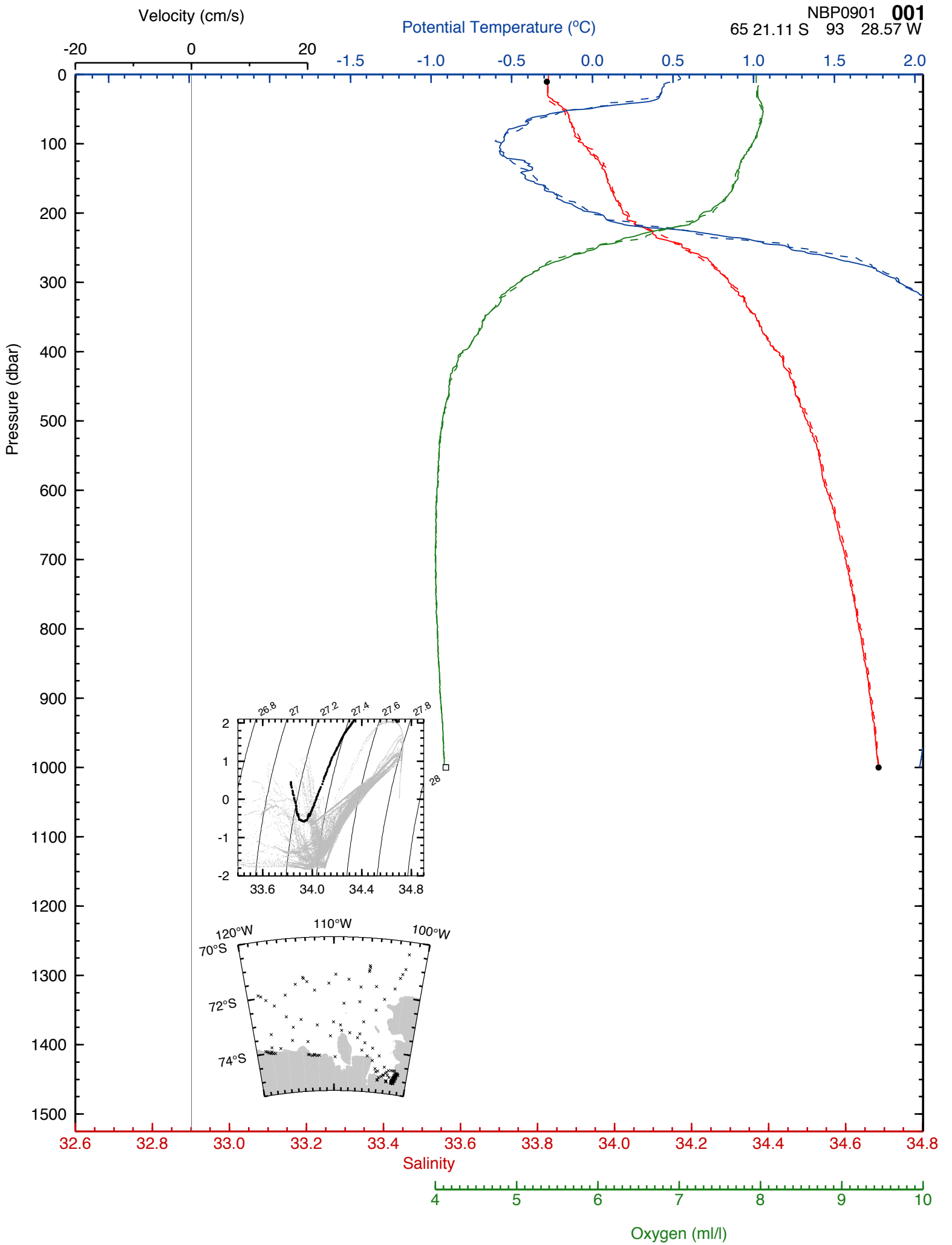
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
16	0.449	0.449	2.316	2.304	33.827	7.98	347	95.0	27.135	1027.2	91.9	0.015	1449.9			16
25	0.431	0.430	2.305	2.286	33.827	7.97	346	95.0	27.137	1027.3	91.8	0.023	1450.0			25
50	-0.052	-0.054	1.843	1.805	33.861	8.03	349	95.7	27.190	1027.4	86.7	0.046	1448.2			50
75	-0.451	-0.454	1.464	1.408	33.889	7.99	347	97.4	27.231	1027.6	82.7	0.067	1446.8			74
100	-0.563	-0.566	1.372	1.297	33.920	7.90	343	98.1	27.261	1027.7	79.8	0.087	1446.7			99
125	-0.413	-0.417	1.544	1.450	33.968	7.76	338	98.3	27.293	1027.9	76.6	0.106	1447.9			124
150	-0.411	-0.416	1.566	1.453	33.981	7.72	336	98.4	27.303	1028.0	75.6	0.125	1448.3			148
175	-0.212	-0.218	1.785	1.653	34.003	7.60	330	98.5	27.312	1028.1	74.8	0.144	1449.7			173
200	0.038	0.030	2.055	1.905	34.035	7.29	317	98.5	27.326	1028.3	73.7	0.163	1451.3			198
225	0.581	0.572	2.621	2.451	34.097	6.73	292	98.5	27.346	1028.4	72.1	0.181	1454.2			223
250	1.230	1.219	3.294	3.106	34.179	5.99	260	98.5	27.371	1028.6	70.2	0.199	1457.7			247
275	1.694	1.680	3.781	3.574	34.252	5.37	233	98.5	27.397	1028.7	68.2	0.216	1460.2			272
300	1.913	1.897	4.021	3.795	34.300	5.03	219	98.5	27.419	1028.8	66.4	0.233	1461.7			297
325	2.083	2.066	4.212	3.968	34.336	4.81	209	98.5	27.434	1029.0	65.2	0.249	1462.9			321
350	2.185	2.166	4.335	4.071	34.368	4.61	201	98.5	27.452	1029.1	63.7	0.266	1463.8			346
375	2.168	2.147	4.338	4.056	34.389	4.52	196	98.5	27.470	1029.2	62.1	0.281	1464.2			371
400	2.266	2.243	4.457	4.156	34.426	4.33	188	98.5	27.493	1029.4	60.2	0.297	1465.0			396
425	2.351	2.327	4.562	4.242	34.454	4.21	183	98.6	27.508	1029.5	59.0	0.312	1465.8			420
450	2.359	2.333	4.590	4.251	34.470	4.17	181	98.6	27.520	1029.6	58.0	0.326	1466.3			445
475	2.319	2.292	4.570	4.212	34.485	4.13	179	98.5	27.536	1029.8	56.7	0.341	1466.6			470
500	2.321	2.292	4.591	4.215	34.505	4.09	178	98.6	27.552	1029.9	55.3	0.355	1467.0			494
550	2.304	2.272	4.614	4.200	34.534	4.04	176	98.6	27.576	1030.1	53.3	0.382	1467.8			544
600	2.286	2.251	4.635	4.183	34.556	4.02	175	98.7	27.596	1030.4	51.7	0.408	1468.6			593
650	2.262	2.223	4.649	4.160	34.583	4.01	174	98.6	27.620	1030.7	49.7	0.433	1469.3			642
700	2.239	2.198	4.666	4.139	34.605	4.00	174	98.7	27.639	1030.9	48.1	0.458	1470.1			692
750	2.221	2.176	4.686	4.121	34.622	4.01	174	98.7	27.655	1031.2	46.8	0.481	1470.9			741
800	2.189	2.141	4.693	4.091	34.639	4.02	175	98.7	27.672	1031.4	45.5	0.504	1471.6			790
850	2.177	2.125	4.719	4.079	34.656	4.04	176	98.6	27.686	1031.6	44.4	0.527	1472.4			840
900	2.161	2.106	4.742	4.064	34.666	4.06	177	98.7	27.696	1031.9	43.7	0.549	1473.1			889
950	2.119	2.062	4.739	4.023	34.678	4.10	178	98.7	27.709	1032.1	42.6	0.571	1473.8			938
1000	2.094	2.033	4.751	3.998	34.684	4.11	179	98.7	27.716	1032.4	42.2	0.592	1474.5			988
1001	2.095	2.034	4.753	3.999	34.683	4.11	179	98.7	27.715	1032.4	42.3	0.592	1474.5			988

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	001B	2009/01/10	17:01	-65.3524	-93.4761	1001	3720	4709	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	0.514	0.514	33.827	27.132	7.94	345	33.824					21,23,24	10
1000	2.094	2.033	34.685	27.717	4.11	179	34.685	4.13	179			1-20	987

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	001U	2009/01/10	17:29	-65.3518	-93.4759	1001	3720	4709	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.533	0.533	2.389	2.389	33.828	7.95	345	27.131	1027.1	92.3	0.001	1450.0	1
25	0.427	0.426	2.301	2.282	33.826	7.96	346	27.136	1027.3	91.9	0.023	1449.9	25
50	-0.071	-0.072	1.825	1.787	33.872	8.02	349	27.199	1027.4	85.8	0.045	1448.1	50
75	-0.417	-0.419	1.498	1.442	33.891	7.98	347	27.231	1027.6	82.7	0.066	1446.9	74
100	-0.566	-0.569	1.370	1.295	33.918	7.90	343	27.259	1027.7	79.9	0.087	1446.7	99
125	-0.499	-0.503	1.457	1.363	33.960	7.76	337	27.291	1027.9	76.9	0.106	1447.5	124
150	-0.345	-0.350	1.632	1.519	33.981	7.68	334	27.300	1028.0	76.0	0.125	1448.6	148
175	-0.200	-0.206	1.797	1.665	33.998	7.59	330	27.308	1028.1	75.3	0.144	1449.7	173
200	-0.011	-0.018	2.005	1.855	34.021	7.41	322	27.317	1028.3	74.5	0.163	1451.0	198
225	0.591	0.582	2.631	2.462	34.090	6.78	295	27.340	1028.4	72.7	0.181	1454.3	223
250	1.260	1.248	3.324	3.135	34.178	5.98	260	27.368	1028.5	70.5	0.199	1457.8	247
275	1.745	1.730	3.831	3.624	34.257	5.34	232	27.397	1028.7	68.2	0.217	1460.5	272
300	1.921	1.905	4.029	3.803	34.296	5.04	219	27.415	1028.8	66.7	0.234	1461.7	297
325	2.106	2.088	4.235	3.990	34.338	4.77	207	27.434	1029.0	65.2	0.250	1463.0	321
350	2.174	2.155	4.324	4.060	34.367	4.61	200	27.452	1029.1	63.7	0.266	1463.7	346
375	2.180	2.159	4.350	4.067	34.389	4.52	196	27.469	1029.2	62.2	0.282	1464.2	371
400	2.287	2.264	4.477	4.176	34.424	4.35	189	27.489	1029.4	60.6	0.297	1465.1	396
425	2.333	2.308	4.543	4.223	34.445	4.25	185	27.502	1029.5	59.5	0.312	1465.8	420
450	2.360	2.334	4.591	4.252	34.466	4.17	181	27.517	1029.6	58.3	0.327	1466.3	445
475	2.319	2.292	4.570	4.212	34.482	4.14	180	27.534	1029.8	56.9	0.341	1466.6	470
500	2.321	2.292	4.591	4.215	34.500	4.10	178	27.548	1029.9	55.7	0.356	1467.0	494
550	2.304	2.272	4.614	4.200	34.531	4.05	176	27.574	1030.1	53.5	0.383	1467.8	544
600	2.285	2.250	4.634	4.182	34.550	4.03	175	27.591	1030.4	52.1	0.409	1468.6	593
650	2.265	2.226	4.652	4.163	34.578	4.01	174	27.616	1030.6	50.1	0.435	1469.3	642
700	2.241	2.199	4.667	4.140	34.600	4.00	174	27.635	1030.9	48.5	0.459	1470.1	692
750	2.223	2.178	4.688	4.123	34.618	4.01	174	27.651	1031.1	47.2	0.483	1470.9	741
800	2.190	2.142	4.693	4.091	34.635	4.03	175	27.668	1031.4	45.9	0.507	1471.6	790
850	2.180	2.128	4.722	4.082	34.651	4.04	176	27.682	1031.6	44.8	0.529	1472.4	840
900	2.160	2.105	4.741	4.063	34.664	4.07	177	27.694	1031.9	43.9	0.551	1473.1	889
950	2.120	2.063	4.739	4.024	34.675	4.10	178	27.706	1032.1	42.9	0.573	1473.8	938
1000	2.093	2.032	4.750	3.997	34.685	4.11	179	27.717	1032.4	42.1	0.594	1474.5	988
1001	2.095	2.034	4.753	3.999	34.683	4.11	179	27.715	1032.4	42.3	0.595	1474.5	988


Velocity (cm/s)
-20
0
20
Potential Temperature (°C)
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 001
65 21.11 S 93 28.57 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**002D**	2009/01/12	12:44	-69.9948	-102.0613	2001	2006	3977	6	5.8	77	-1.4	980.2

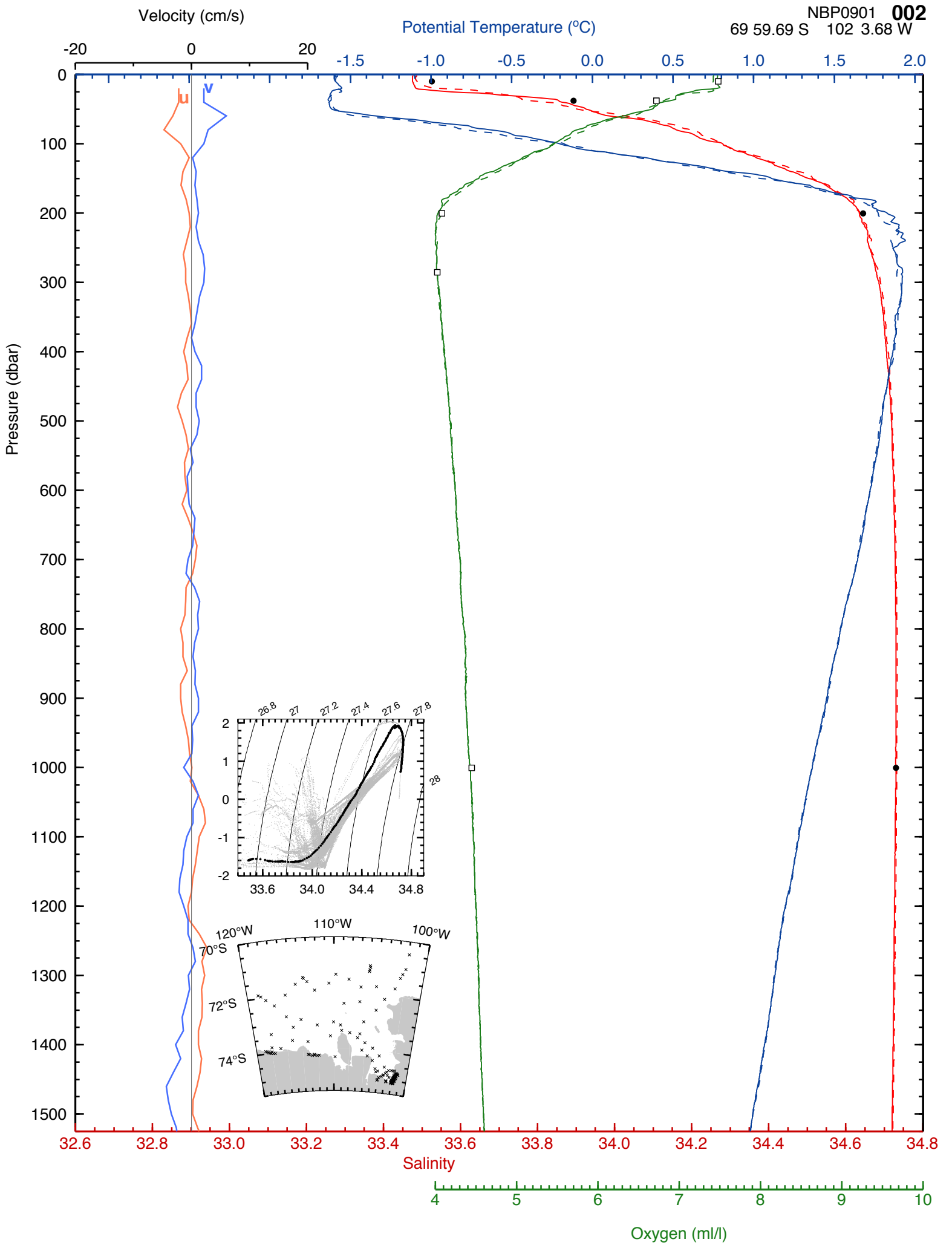
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.592	-1.592	0.244	0.244	33.486	7.47	325	95.3	26.945	1027.0	110.0	0.001	1439.7			1
25	-1.616	-1.617	0.248	0.229	33.656	7.15	311	95.4	27.084	1027.2	96.7	0.027	1440.2	0.030	314	25
50	-1.613	-1.614	0.284	0.246	33.904	6.66	290	96.8	27.285	1027.5	77.4	0.048	1440.9	0.048	322	50
75	-0.757	-0.759	1.174	1.118	34.169	5.86	255	98.1	27.470	1027.8	60.0	0.065	1445.7	0.059	310	74
100	-0.201	-0.204	1.756	1.680	34.280	5.46	237	98.4	27.535	1028.0	53.9	0.079	1448.9	0.029	317	99
125	0.438	0.433	2.420	2.326	34.400	5.00	217	98.5	27.598	1028.2	48.1	0.092	1452.4	0.006	297	124
150	1.118	1.111	3.125	3.012	34.515	4.53	197	98.5	27.648	1028.4	43.8	0.103	1456.0	0.018	294	148
175	1.608	1.600	3.640	3.508	34.601	4.18	181	98.6	27.683	1028.5	40.8	0.114	1458.7	0.015	306	173
200	1.837	1.827	3.889	3.738	34.638	4.03	175	98.6	27.695	1028.6	39.8	0.124	1460.2	0.013	339	198
225	1.893	1.881	3.965	3.795	34.655	4.01	174	98.6	27.705	1028.8	39.1	0.134	1460.8	0.009	344	222
250	1.882	1.869	3.973	3.785	34.663	4.02	175	98.6	27.712	1028.9	38.5	0.144	1461.2	0.018	326	247
275	1.908	1.893	4.019	3.812	34.678	4.01	174	98.6	27.722	1029.0	37.7	0.153	1461.8	0.025	332	272
300	1.937	1.921	4.067	3.842	34.691	4.04	175	98.6	27.730	1029.1	37.1	0.163	1462.3	0.023	335	297
325	1.930	1.912	4.079	3.835	34.698	4.06	176	98.6	27.736	1029.3	36.6	0.172	1462.7	0.015	341	321
350	1.896	1.877	4.065	3.801	34.700	4.07	177	98.6	27.741	1029.4	36.2	0.181	1463.0	0.009	243	346
375	1.901	1.881	4.089	3.807	34.705	4.09	178	98.7	27.745	1029.5	36.0	0.190	1463.4	0.006	145	371
400	1.885	1.863	4.092	3.790	34.711	4.11	179	98.7	27.751	1029.6	35.6	0.199	1463.7	0.012	289	395
425	1.865	1.842	4.091	3.771	34.714	4.13	180	98.7	27.755	1029.7	35.3	0.208	1464.1	0.019	335	420
450	1.852	1.827	4.096	3.758	34.717	4.15	180	98.7	27.758	1029.9	35.1	0.216	1464.4	0.018	330	445
475	1.832	1.806	4.096	3.738	34.719	4.17	181	98.7	27.762	1030.0	34.8	0.225	1464.8	0.022	292	470
500	1.821	1.794	4.104	3.728	34.721	4.18	182	98.7	27.764	1030.1	34.7	0.234	1465.1	0.022	303	494
550	1.792	1.762	4.113	3.699	34.724	4.21	183	98.7	27.769	1030.3	34.4	0.251	1465.8	0.006	255	544
600	1.754	1.721	4.113	3.661	34.727	4.25	184	98.7	27.775	1030.6	34.0	0.268	1466.5	0.011	235	593
650	1.722	1.686	4.118	3.629	34.729	4.27	185	98.7	27.779	1030.8	33.8	0.285	1467.2	0.008	285	642
700	1.683	1.644	4.117	3.590	34.731	4.30	187	98.7	27.784	1031.1	33.5	0.302	1467.8	0.009	108	692
750	1.628	1.587	4.100	3.535	34.732	4.31	187	98.7	27.789	1031.3	33.1	0.319	1468.4	0.010	300	741
800	1.583	1.539	4.093	3.490	34.733	4.35	189	98.7	27.793	1031.5	32.8	0.335	1469.0	0.019	309	790
850	1.538	1.491	4.085	3.445	34.733	4.36	190	98.7	27.797	1031.8	32.6	0.352	1469.7	0.015	282	839
900	1.502	1.452	4.087	3.409	34.733	4.37	190	98.7	27.800	1032.0	32.5	0.368	1470.3	0.021	294	889
950	1.460	1.407	4.082	3.367	34.733	4.39	191	98.7	27.803	1032.2	32.2	0.384	1471.0	0.011	279	938
1000	1.419	1.363	4.079	3.326	34.733	4.42	192	98.7	27.806	1032.5	32.1	0.400	1471.6	0.007	248	987
1200	1.263	1.196	4.074	3.170	34.729	4.50	195	98.7	27.815	1033.4	31.4	0.464	1474.2	0.020	185	1184
1400	1.147	1.067	4.108	3.054	34.726	4.56	198	98.7	27.820	1034.3	31.1	0.526	1477.0	0.018	140	1381
1600	1.031	0.938	4.142	2.937	34.722	4.62	201	98.7	27.826	1035.3	30.6	0.588	1479.8	0.039	159	1578
1800	0.931	0.826	4.193	2.837	34.718	4.67	203	98.7	27.830	1036.2	30.3	0.649	1482.8	0.007	57	1774
2000	0.842	0.723	4.254	2.748	34.714	4.72	205	98.7	27.833	1037.1	29.9	0.709	1485.7	0.009	168	1970
2001	0.842	0.723	4.255	2.748	34.714	4.72	205	98.7	27.833	1037.1	30.0	0.709	1485.7	0.009	168	1971

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	002B	2009/01/12	13:32	-69.9955	-102.0633	2001	2006	3977	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.591	-1.591	33.476	26.937	7.42	323	33.526	7.48	325			24	10
38	-1.639	-1.639	33.854	27.245	6.82	296	33.893	6.72	292			20,18,17	38
201	1.783	1.773	34.636	27.698	4.06	177	34.645	4.08	177			15,13	198
285	1.903	1.888	34.680	27.724	4.03	175		4.02	175			12,9	282
1000	1.419	1.363	34.731	27.805	4.43	193	34.731	4.45	193			7,6	987
2001	0.842	0.723	34.714	27.833	4.72	205	34.713	4.74	206			2,1	1971

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	002U	2009/01/12	14:25	-69.9953	-102.0723	2001	2006	3977	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.585	-1.585	0.251	0.250	33.477	7.42	323	26.937	1026.9	110.8	0.001	1439.7	1
25	-1.557	-1.558	0.302	0.284	33.575	7.37	320	27.016	1027.1	103.1	0.027	1440.3	25
50	-1.595	-1.597	0.303	0.265	33.927	6.60	287	27.303	1027.5	75.8	0.049	1441.0	50
75	-0.871	-0.873	1.058	1.002	34.142	5.93	258	27.453	1027.8	61.5	0.066	1445.2	74
100	-0.173	-0.176	1.783	1.708	34.280	5.45	237	27.534	1028.0	54.0	0.080	1449.0	99
125	0.454	0.449	2.436	2.342	34.395	5.02	218	27.593	1028.2	48.7	0.093	1452.4	124
150	1.054	1.047	3.061	2.948	34.505	4.60	200	27.644	1028.4	44.1	0.105	1455.7	148
175	1.558	1.549	3.588	3.456	34.592	4.24	184	27.679	1028.5	41.1	0.115	1458.5	173
200	1.781	1.771	3.833	3.683	34.636	4.06	177	27.698	1028.6	39.6	0.125	1459.9	198
225	1.909	1.897	3.981	3.811	34.656	4.00	174	27.704	1028.8	39.1	0.135	1460.9	222
250	1.878	1.865	3.969	3.781	34.662	4.02	175	27.711	1028.9	38.6	0.145	1461.2	247
275	1.906	1.892	4.017	3.810	34.675	4.02	175	27.720	1029.0	37.9	0.155	1461.7	272
300	1.929	1.913	4.059	3.833	34.687	4.03	175	27.727	1029.1	37.3	0.164	1462.3	297
325	1.927	1.909	4.076	3.832	34.693	4.04	176	27.733	1029.3	37.0	0.173	1462.7	321
350	1.913	1.894	4.082	3.818	34.698	4.07	177	27.738	1029.4	36.5	0.182	1463.0	346
375	1.903	1.883	4.091	3.809	34.702	4.08	177	27.742	1029.5	36.3	0.191	1463.4	371
400	1.894	1.872	4.100	3.799	34.706	4.11	178	27.746	1029.6	36.0	0.201	1463.8	395
425	1.871	1.848	4.097	3.777	34.710	4.13	179	27.752	1029.7	35.6	0.209	1464.1	420
450	1.850	1.825	4.095	3.756	34.714	4.15	180	27.756	1029.9	35.3	0.218	1464.4	445
475	1.828	1.802	4.092	3.734	34.717	4.17	181	27.760	1030.0	35.0	0.227	1464.7	470
500	1.811	1.784	4.094	3.717	34.719	4.19	182	27.764	1030.1	34.8	0.236	1465.1	494
550	1.784	1.754	4.105	3.691	34.721	4.21	183	27.768	1030.3	34.5	0.253	1465.8	544
600	1.754	1.721	4.113	3.661	34.724	4.24	184	27.773	1030.6	34.3	0.270	1466.5	593
650	1.715	1.679	4.112	3.622	34.727	4.28	186	27.778	1030.8	33.9	0.287	1467.1	642
700	1.677	1.638	4.111	3.584	34.729	4.31	187	27.782	1031.1	33.7	0.304	1467.8	692
750	1.633	1.591	4.104	3.540	34.730	4.31	187	27.786	1031.3	33.4	0.321	1468.4	741
800	1.580	1.536	4.089	3.487	34.730	4.36	189	27.791	1031.5	33.0	0.338	1469.0	790
850	1.539	1.492	4.086	3.446	34.731	4.37	190	27.795	1031.8	32.8	0.354	1469.7	839
900	1.510	1.460	4.095	3.417	34.731	4.37	190	27.797	1032.0	32.7	0.371	1470.3	889
950	1.464	1.411	4.086	3.371	34.730	4.40	191	27.800	1032.2	32.5	0.387	1471.0	938
1000	1.418	1.362	4.078	3.325	34.731	4.43	193	27.804	1032.5	32.2	0.403	1471.6	987
1200	1.266	1.198	4.076	3.172	34.727	4.50	195	27.812	1033.4	31.6	0.467	1474.2	1184
1400	1.152	1.073	4.113	3.059	34.723	4.56	198	27.818	1034.3	31.3	0.530	1477.0	1381
1600	1.034	0.942	4.145	2.940	34.719	4.62	201	27.823	1035.3	30.9	0.592	1479.9	1578
1800	0.933	0.828	4.194	2.839	34.715	4.67	203	27.828	1036.2	30.5	0.653	1482.8	1774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Potential Temperature (°C)
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1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**003D**	2009/01/12	20:32	-70.4622	-101.9342	2015	1323	3308	8	7.2	94	-1.0	981.3

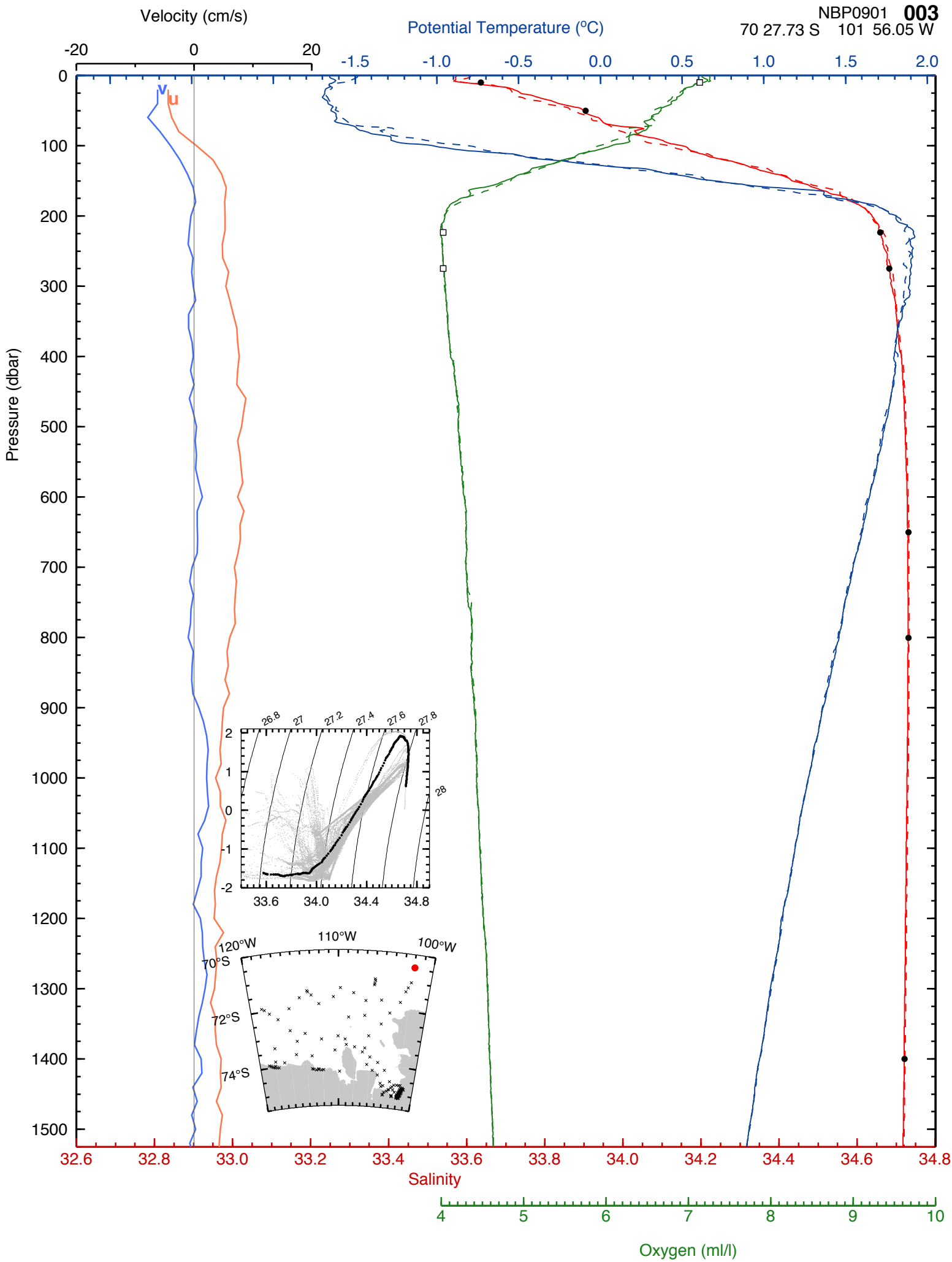
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.658	-1.658	0.185	0.185	33.610	7.16	311	95.7	27.047	1027.1	100.3	0.001	1439.5			1
25	-1.686	-1.687	0.181	0.162	33.717	6.93	301	96.2	27.135	1027.3	91.8	0.024	1439.9	0.076	215	25
50	-1.647	-1.648	0.248	0.210	33.865	6.67	290	97.0	27.254	1027.5	80.4	0.046	1440.7	0.082	211	50
75	-1.490	-1.491	0.430	0.374	33.974	6.51	283	97.4	27.338	1027.7	72.3	0.065	1442.0	0.071	205	74
100	-1.022	-1.025	0.925	0.849	34.117	6.07	264	98.0	27.438	1027.9	62.8	0.082	1444.8	0.041	176	99
125	-0.122	-0.126	1.854	1.760	34.298	5.36	233	98.5	27.546	1028.1	52.9	0.096	1449.7	0.042	123	124
150	0.712	0.706	2.716	2.603	34.449	4.77	207	98.6	27.621	1028.3	46.1	0.108	1454.1	0.051	98	148
175	1.457	1.449	3.487	3.355	34.578	4.24	184	98.6	27.675	1028.5	41.4	0.119	1458.0	0.053	88	173
200	1.820	1.810	3.872	3.722	34.639	4.04	176	98.6	27.698	1028.6	39.6	0.129	1460.1	0.053	94	198
225	1.927	1.915	3.999	3.830	34.668	4.00	174	98.7	27.713	1028.8	38.3	0.139	1461.0	0.053	99	222
250	1.920	1.907	4.012	3.824	34.679	4.02	175	98.7	27.722	1028.9	37.6	0.149	1461.4	0.049	98	247
275	1.911	1.897	4.023	3.816	34.688	4.03	175	98.7	27.730	1029.0	37.0	0.158	1461.8	0.055	93	272
300	1.902	1.886	4.033	3.807	34.694	4.05	176	98.7	27.736	1029.1	36.5	0.167	1462.2	0.055	92	297
325	1.883	1.866	4.033	3.788	34.701	4.07	177	98.7	27.743	1029.3	36.0	0.176	1462.5	0.061	88	321
350	1.851	1.832	4.020	3.756	34.706	4.08	177	98.7	27.749	1029.4	35.5	0.185	1462.8	0.070	97	346
375	1.830	1.810	4.018	3.736	34.710	4.09	178	98.7	27.754	1029.5	35.1	0.194	1463.1	0.074	94	371
400	1.818	1.796	4.025	3.724	34.714	4.11	179	98.7	27.758	1029.6	34.8	0.203	1463.5	0.076	91	395
425	1.824	1.801	4.050	3.730	34.719	4.16	181	98.7	27.762	1029.8	34.5	0.211	1463.9	0.074	95	420
450	1.807	1.782	4.052	3.713	34.722	4.18	182	98.7	27.766	1029.9	34.3	0.220	1464.2	0.077	91	445
475	1.789	1.763	4.053	3.695	34.724	4.21	183	98.7	27.770	1030.0	34.1	0.229	1464.6	0.086	93	470
500	1.766	1.739	4.049	3.673	34.725	4.20	183	98.7	27.772	1030.1	33.9	0.237	1464.9	0.082	88	494
550	1.725	1.695	4.046	3.632	34.728	4.24	184	98.7	27.778	1030.4	33.5	0.254	1465.5	0.078	87	544
600	1.678	1.645	4.037	3.585	34.731	4.28	186	98.7	27.783	1030.6	33.1	0.271	1466.2	0.078	81	593
650	1.636	1.600	4.032	3.543	34.732	4.30	187	98.7	27.788	1030.8	32.9	0.287	1466.8	0.078	86	642
700	1.583	1.545	4.017	3.490	34.732	4.30	187	98.7	27.792	1031.1	32.6	0.303	1467.4	0.071	90	692
750	1.536	1.495	4.007	3.443	34.733	4.33	188	98.7	27.796	1031.3	32.3	0.320	1468.0	0.070	91	741
800	1.503	1.460	4.013	3.410	34.733	4.37	190	98.7	27.799	1031.5	32.1	0.336	1468.7	0.066	97	790
850	1.458	1.412	4.005	3.365	34.733	4.36	190	98.7	27.802	1031.8	32.0	0.352	1469.3	0.058	93	839
900	1.411	1.361	3.995	3.318	34.732	4.40	191	98.7	27.805	1032.0	31.7	0.368	1469.9	0.056	87	889
950	1.367	1.314	3.989	3.274	34.731	4.42	192	98.7	27.808	1032.2	31.5	0.383	1470.5	0.051	66	938
1000	1.327	1.272	3.987	3.234	34.731	4.43	192	98.7	27.810	1032.5	31.4	0.399	1471.2	0.048	63	987
1200	1.173	1.107	3.983	3.080	34.727	4.51	196	98.7	27.819	1033.4	30.8	0.461	1473.8	0.036	88	1184
1400	1.052	0.973	4.012	2.958	34.723	4.59	199	98.7	27.824	1034.3	30.3	0.522	1476.6	0.038	88	1381
1600	0.942	0.851	4.053	2.848	34.719	4.65	202	98.7	27.829	1035.3	29.9	0.583	1479.4	0.039	79	1577
1800	0.840	0.736	4.101	2.746	34.715	4.70	204	98.7	27.834	1036.2	29.5	0.642	1482.3	0.013	17	1774
2000	0.750	0.632	4.162	2.656	34.712	4.75	206	98.7	27.837	1037.1	29.1	0.701	1485.3	0.022	27	1970
2015	0.744	0.626	4.167	2.650	34.711	4.75	207	98.7	27.837	1037.2	29.1	0.705	1485.5			1985

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	003B	2009/01/12	21:20	-70.4645	-101.9416	2015	1323	3308	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.630	-1.631	33.611	27.047	7.13	310	33.636	7.14	310			24	10
50	-1.627	-1.628	33.901	27.282	6.58	286	33.905					17	50
223	1.875	1.863	34.658	27.708	4.01	174	34.660	4.02	175			15	221
275	1.890	1.875	34.683	27.727	4.03	175	34.682	4.03	175			13,12	272
650	1.629	1.593	34.731	27.787	4.30	187	34.732					10	642
800	1.496	1.452	34.732	27.798	4.37	190	34.732					7	790
1400	1.048	0.970	34.721	27.824	4.59	200	34.722					4	1381
2015	0.744	0.625	34.711	27.837	4.75	207	34.712					1	1985

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	003U	2009/01/12	22:15	-70.4659	-101.9514	2015	1323	3308	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.484	-1.484	0.357	0.357	33.574	7.25	315	27.013	1027.0	103.5	0.001	1440.3	1
25	-1.679	-1.679	0.190	0.171	33.737	6.89	300	27.151	1027.3	90.3	0.024	1440.0	25
50	-1.615	-1.615	0.282	0.245	33.901	6.58	286	27.283	1027.5	77.7	0.045	1440.9	50
75	-1.272	-1.274	0.652	0.596	34.048	6.29	273	27.392	1027.8	67.3	0.064	1443.1	74
100	-0.805	-0.808	1.144	1.069	34.152	5.92	257	27.459	1027.9	61.0	0.080	1445.9	99
125	-0.061	-0.065	1.915	1.821	34.297	5.37	233	27.542	1028.1	53.3	0.095	1450.0	124
150	0.674	0.667	2.677	2.564	34.434	4.84	210	27.612	1028.3	47.0	0.107	1453.9	148
175	1.454	1.445	3.483	3.352	34.574	4.29	186	27.672	1028.5	41.7	0.118	1458.0	173
200	1.821	1.811	3.873	3.723	34.639	4.04	176	27.697	1028.6	39.7	0.129	1460.1	198
225	1.889	1.877	3.961	3.792	34.660	4.01	174	27.709	1028.8	38.7	0.138	1460.8	222
250	1.898	1.885	3.990	3.802	34.673	4.02	175	27.719	1028.9	37.8	0.148	1461.3	247
275	1.888	1.874	3.999	3.792	34.683	4.03	175	27.728	1029.0	37.2	0.157	1461.7	272
300	1.879	1.863	4.009	3.783	34.688	4.04	175	27.733	1029.1	36.8	0.167	1462.0	297
325	1.874	1.857	4.024	3.779	34.699	4.07	177	27.742	1029.3	36.1	0.176	1462.5	321
350	1.849	1.831	4.018	3.755	34.702	4.08	177	27.746	1029.4	35.7	0.185	1462.8	346
375	1.829	1.809	4.017	3.735	34.706	4.09	178	27.751	1029.5	35.3	0.193	1463.1	371
400	1.840	1.819	4.048	3.746	34.714	4.14	180	27.756	1029.6	35.0	0.202	1463.5	395
425	1.823	1.800	4.049	3.729	34.716	4.17	181	27.760	1029.8	34.7	0.211	1463.9	420
450	1.809	1.784	4.054	3.715	34.719	4.19	182	27.763	1029.9	34.5	0.220	1464.2	445
475	1.778	1.752	4.042	3.684	34.721	4.20	182	27.767	1030.0	34.2	0.228	1464.5	470
500	1.758	1.731	4.041	3.665	34.723	4.21	183	27.770	1030.1	34.0	0.237	1464.8	494
550	1.723	1.693	4.044	3.630	34.726	4.26	185	27.776	1030.4	33.7	0.254	1465.5	544
600	1.670	1.637	4.029	3.577	34.728	4.28	186	27.782	1030.6	33.3	0.270	1466.1	593
650	1.631	1.595	4.027	3.538	34.730	4.30	187	27.787	1030.8	33.0	0.287	1466.8	642
700	1.579	1.541	4.013	3.486	34.730	4.31	187	27.790	1031.1	32.7	0.303	1467.3	692
750	1.536	1.495	4.008	3.443	34.731	4.36	190	27.794	1031.3	32.4	0.320	1468.0	741
800	1.496	1.452	4.005	3.403	34.731	4.36	190	27.798	1031.5	32.2	0.336	1468.6	790
850	1.449	1.403	3.996	3.356	34.730	4.38	190	27.800	1031.8	32.1	0.352	1469.2	839
900	1.407	1.357	3.991	3.314	34.730	4.41	192	27.804	1032.0	31.9	0.368	1469.9	889
950	1.370	1.318	3.992	3.277	34.729	4.42	192	27.806	1032.2	31.7	0.384	1470.5	938
1000	1.327	1.272	3.987	3.234	34.728	4.43	193	27.808	1032.5	31.6	0.400	1471.2	987
1200	1.181	1.115	3.992	3.088	34.724	4.51	196	27.816	1033.4	31.0	0.462	1473.8	1184
1400	1.055	0.976	4.016	2.961	34.721	4.59	199	27.823	1034.3	30.5	0.524	1476.6	1381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Potential Temperature (°C)
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1.0
1.5
2.0
Pressure (dbar)
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200
300
400
500
600
700
800
900
1000
1100
1200
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26.8
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27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**004D**	2009/01/13	09:10	-70.9943	-102.1137	1772	8	1755	10	2.7	173	-1.4	982.1

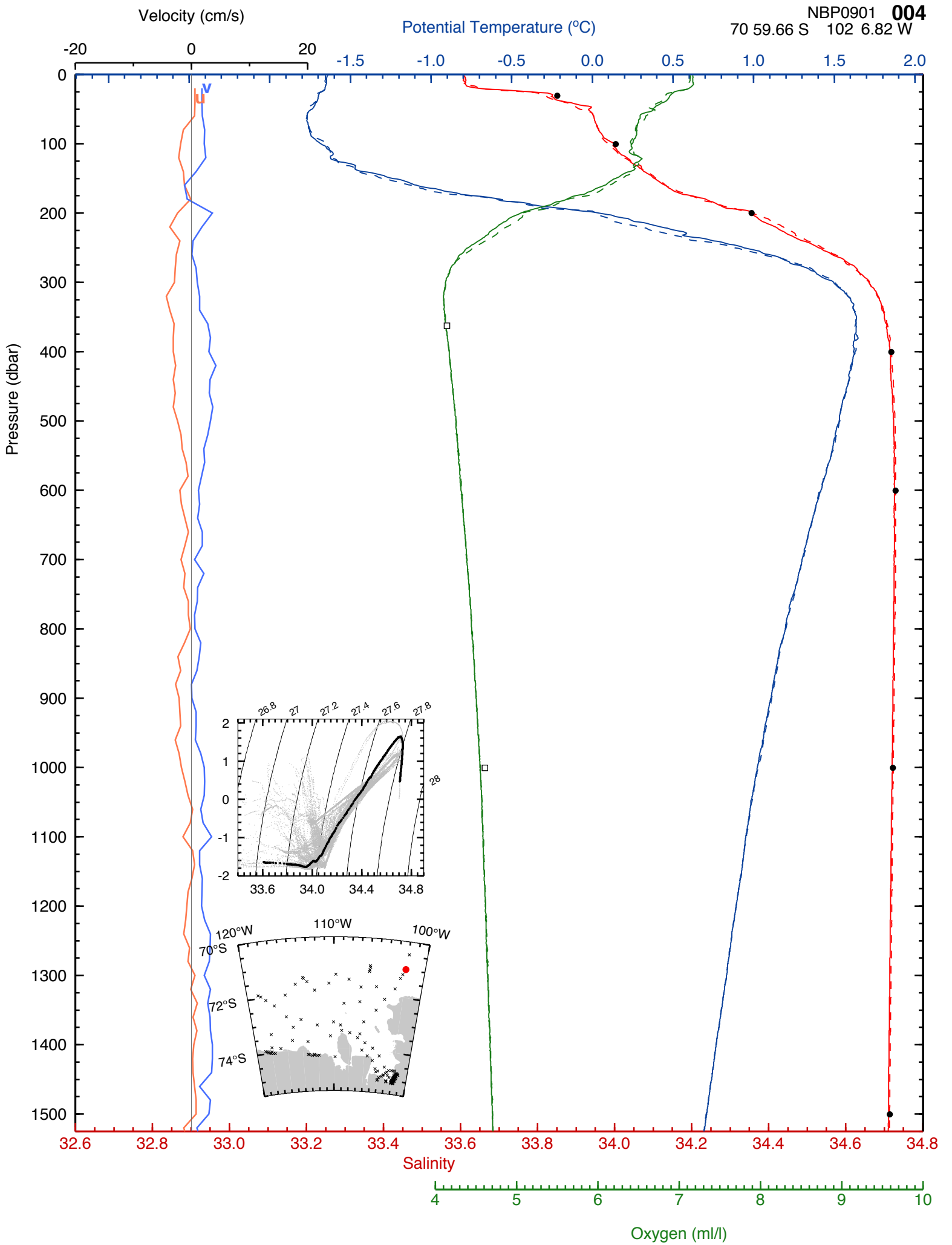
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.639	-1.639	0.204	0.203	33.610	7.17	312	95.4	27.046	1027.1	100.4	0.001	1439.6			1
25	-1.680	-1.680	0.191	0.172	33.771	6.94	302	95.4	27.178	1027.3	87.7	0.025	1440.0	0.019	18	25
50	-1.738	-1.739	0.159	0.121	33.911	6.67	290	96.1	27.294	1027.5	76.6	0.045	1440.3	0.019	17	50
75	-1.760	-1.761	0.159	0.102	33.954	6.48	282	98.2	27.330	1027.7	73.0	0.063	1440.7	0.025	237	74
100	-1.683	-1.685	0.256	0.181	33.983	6.42	279	98.5	27.351	1027.8	70.9	0.081	1441.5	0.029	320	99
125	-1.579	-1.581	0.383	0.289	34.041	6.51	283	98.6	27.395	1028.0	66.6	0.099	1442.5	0.030	315	124
150	-1.231	-1.235	0.753	0.640	34.109	6.21	270	98.6	27.440	1028.2	62.4	0.115	1444.6	0.016	268	148
175	-0.738	-0.743	1.270	1.138	34.195	5.73	249	98.6	27.491	1028.3	57.7	0.130	1447.5	0.011	201	173
200	0.046	0.038	2.082	1.931	34.355	5.05	220	98.7	27.583	1028.5	49.4	0.143	1451.7	0.039	311	198
225	0.529	0.520	2.590	2.420	34.454	4.69	204	98.6	27.636	1028.7	44.7	0.155	1454.5	0.038	294	222
250	0.953	0.942	3.037	2.849	34.539	4.40	191	98.7	27.679	1028.9	41.0	0.166	1456.9	0.022	276	247
275	1.284	1.271	3.391	3.184	34.609	4.21	183	98.7	27.713	1029.0	38.1	0.175	1458.9	0.028	280	272
300	1.510	1.495	3.639	3.413	34.660	4.13	179	98.7	27.738	1029.2	36.0	0.185	1460.4	0.031	288	297
325	1.617	1.600	3.766	3.522	34.689	4.10	178	98.7	27.753	1029.3	34.7	0.194	1461.3	0.045	288	321
350	1.656	1.638	3.825	3.561	34.705	4.12	179	98.7	27.763	1029.4	33.9	0.202	1461.9	0.040	297	346
375	1.654	1.634	3.842	3.559	34.713	4.14	180	98.7	27.770	1029.5	33.4	0.211	1462.3	0.043	315	371
400	1.640	1.619	3.847	3.546	34.718	4.17	181	98.7	27.775	1029.7	33.0	0.219	1462.7	0.043	315	395
425	1.627	1.605	3.853	3.533	34.721	4.19	182	98.7	27.779	1029.8	32.8	0.227	1463.0	0.050	327	420
450	1.604	1.580	3.849	3.510	34.724	4.21	183	98.7	27.783	1029.9	32.4	0.235	1463.3	0.044	316	445
475	1.573	1.548	3.838	3.480	34.726	4.23	184	98.7	27.787	1030.0	32.1	0.243	1463.6	0.045	319	470
500	1.559	1.533	3.842	3.466	34.729	4.26	185	98.7	27.790	1030.1	31.9	0.251	1464.0	0.043	323	494
550	1.509	1.480	3.830	3.416	34.730	4.28	186	98.7	27.795	1030.4	31.6	0.267	1464.6	0.026	325	544
600	1.449	1.417	3.808	3.356	34.730	4.32	187	98.7	27.800	1030.6	31.2	0.283	1465.1	0.021	315	593
650	1.389	1.355	3.785	3.296	34.730	4.35	189	98.7	27.804	1030.9	30.9	0.298	1465.7	0.016	318	642
700	1.337	1.300	3.771	3.244	34.730	4.39	191	98.7	27.808	1031.1	30.6	0.314	1466.3	0.020	304	692
750	1.285	1.246	3.757	3.192	34.729	4.42	192	98.7	27.811	1031.3	30.4	0.329	1466.9	0.017	311	741
800	1.238	1.196	3.747	3.145	34.728	4.45	193	98.7	27.813	1031.6	30.2	0.344	1467.5	0.006	328	790
850	1.191	1.146	3.737	3.097	34.727	4.48	195	98.7	27.816	1031.8	30.0	0.359	1468.1	0.026	300	839
900	1.154	1.107	3.739	3.061	34.726	4.50	196	98.7	27.818	1032.0	29.9	0.374	1468.8	0.024	271	889
950	1.114	1.063	3.736	3.020	34.725	4.52	197	98.7	27.820	1032.3	29.8	0.389	1469.4	0.021	293	938
1000	1.075	1.022	3.734	2.981	34.724	4.55	198	98.7	27.822	1032.5	29.6	0.404	1470.0	0.027	313	987
1200	0.955	0.891	3.765	2.861	34.720	4.62	201	98.7	27.827	1033.4	29.2	0.463	1472.8	0.019	340	1184
1400	0.843	0.767	3.803	2.749	34.716	4.67	203	98.7	27.832	1034.4	28.8	0.521	1475.7	0.034	15	1381
1600	0.729	0.641	3.840	2.635	34.712	4.73	206	98.7	27.837	1035.3	28.3	0.578	1478.5	0.020	302	1577
1772	0.569	0.471	3.809	2.475	34.707	4.80	208	98.7	27.843	1036.1	27.3	0.626	1480.6			1746

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	004B	2009/01/13	09:53	-70.9945	-102.1155	1772	8	1755	10

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
11	-1.655	-1.655	33.611	27.048	7.12	310						24	11
30	-1.706	-1.706	33.842	27.237	6.83	297	33.852			2184.4		23	30
101	-1.638	-1.640	34.001	27.365	6.42	279	34.003			2201.2		22	100
200	0.005	-0.003	34.355	27.586	5.06	220	34.356			2236.6		21	198
363	1.647	1.628	34.708	27.767	4.14	180		4.14	180	2258.7		19	359
401	1.643	1.622	34.717	27.774	4.17	181	34.719					17	396
601	1.438	1.407	34.728	27.798	4.33	188	34.730					13	593
1000	1.080	1.027	34.722	27.820	4.56	198	34.723	4.61	200	2263.8		10,7	988
1501	0.784	0.701	34.712	27.833	4.71	204	34.714					3	1480
1772	0.569	0.470	34.706	27.843	4.80	209	34.710	4.83	210			2,1	1746

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	004U	2009/01/13	10:41	-70.9940	-102.1180	1772	8	1755	10

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.655	-1.655	0.188	0.188	33.608	7.14	310	27.045	1027.0	100.5	0.001	1439.5	1
25	-1.683	-1.683	0.188	0.170	33.783	6.94	302	27.189	1027.3	86.7	0.025	1440.0	25
50	-1.756	-1.757	0.143	0.105	33.933	6.68	291	27.312	1027.6	74.9	0.045	1440.3	50
75	-1.756	-1.758	0.162	0.106	33.955	6.47	281	27.331	1027.7	73.0	0.063	1440.7	74
100	-1.640	-1.642	0.300	0.225	33.999	6.41	279	27.363	1027.8	69.8	0.081	1441.7	99
125	-1.579	-1.582	0.382	0.288	34.041	6.51	283	27.396	1028.0	66.6	0.098	1442.5	124
150	-1.299	-1.303	0.685	0.572	34.104	6.31	274	27.438	1028.2	62.6	0.114	1444.3	148
175	-0.759	-0.765	1.249	1.117	34.199	5.88	256	27.494	1028.3	57.4	0.129	1447.4	173
200	0.038	0.031	2.074	1.924	34.357	5.05	220	27.586	1028.5	49.1	0.143	1451.7	198
225	0.375	0.366	2.434	2.264	34.432	4.81	209	27.628	1028.7	45.4	0.155	1453.8	222
250	0.895	0.883	2.978	2.790	34.531	4.47	194	27.676	1028.9	41.2	0.165	1456.7	247
275	1.315	1.302	3.423	3.216	34.617	4.22	183	27.717	1029.0	37.7	0.175	1459.1	272
300	1.519	1.504	3.648	3.422	34.661	4.13	179	27.738	1029.1	36.0	0.184	1460.4	297
325	1.620	1.603	3.769	3.525	34.688	4.11	178	27.752	1029.3	34.9	0.193	1461.3	321
350	1.656	1.638	3.825	3.562	34.701	4.12	179	27.760	1029.4	34.3	0.202	1461.9	346
375	1.646	1.627	3.834	3.552	34.709	4.14	180	27.767	1029.5	33.7	0.210	1462.3	371
400	1.650	1.629	3.857	3.556	34.716	4.17	181	27.773	1029.7	33.3	0.219	1462.7	395
425	1.621	1.599	3.847	3.527	34.716	4.19	182	27.775	1029.8	33.1	0.227	1463.0	420
450	1.607	1.583	3.852	3.513	34.719	4.20	183	27.779	1029.9	32.9	0.235	1463.3	445
475	1.577	1.552	3.841	3.483	34.722	4.23	184	27.783	1030.0	32.5	0.244	1463.6	470
500	1.556	1.530	3.839	3.463	34.724	4.25	185	27.787	1030.1	32.2	0.252	1464.0	494
550	1.509	1.480	3.829	3.415	34.726	4.29	186	27.792	1030.4	31.9	0.268	1464.6	544
600	1.437	1.405	3.795	3.343	34.727	4.33	188	27.798	1030.6	31.4	0.283	1465.1	593
650	1.392	1.358	3.788	3.298	34.726	4.35	189	27.801	1030.8	31.2	0.299	1465.7	642
700	1.340	1.304	3.774	3.247	34.726	4.39	191	27.804	1031.1	30.9	0.315	1466.3	692
750	1.292	1.252	3.763	3.198	34.726	4.42	192	27.808	1031.3	30.7	0.330	1466.9	741
800	1.241	1.199	3.750	3.147	34.724	4.45	193	27.811	1031.6	30.5	0.345	1467.5	790
850	1.196	1.151	3.742	3.102	34.724	4.48	195	27.813	1031.8	30.3	0.361	1468.1	839
900	1.159	1.111	3.743	3.066	34.723	4.50	196	27.815	1032.0	30.2	0.376	1468.8	889
950	1.119	1.068	3.740	3.025	34.721	4.53	197	27.817	1032.3	30.0	0.391	1469.4	938
1000	1.079	1.026	3.739	2.986	34.722	4.55	198	27.820	1032.5	29.8	0.406	1470.1	987
1200	0.956	0.891	3.765	2.862	34.717	4.62	201	27.825	1033.4	29.5	0.465	1472.8	1184
1400	0.845	0.768	3.804	2.750	34.713	4.68	203	27.829	1034.4	29.1	0.524	1475.7	1381


NBP0901 004
70 59.66 S 102 6.82 W
Velocity (cm/s)
-20
0
20
U
V
Potential Temperature (°C)
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
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28
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-1
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
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34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**005D**	2009/01/13	13:56	-71.1880	-102.3652	1088	4	1079	7	4.2	142	-1.6	981.9

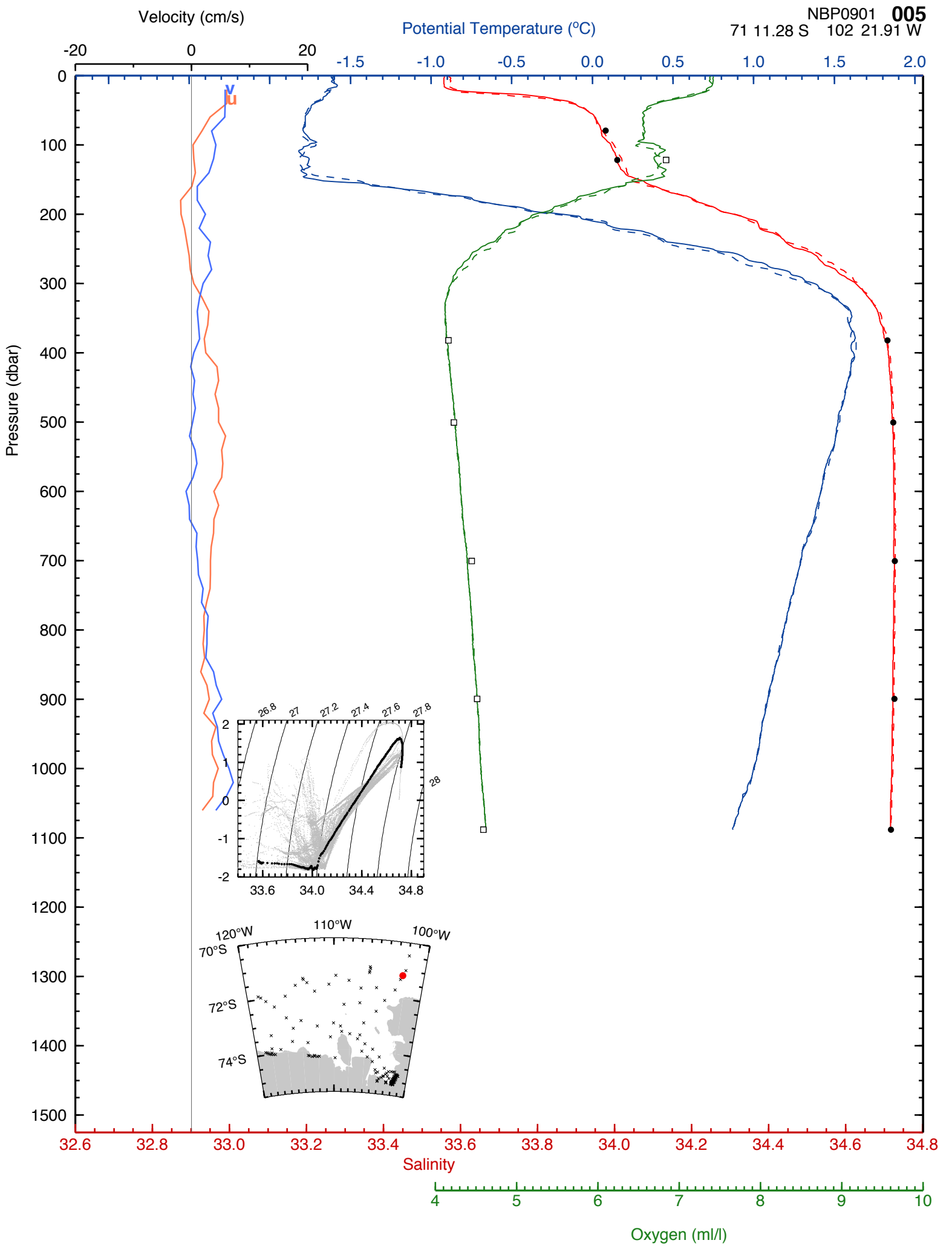
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.601	-1.601	0.240	0.240	33.569	7.38	321	95.0	27.012	1027.0	103.6	0.001	1439.7			1
25	-1.639	-1.639	0.224	0.205	33.638	7.26	316	94.9	27.069	1027.2	98.0	0.026	1440.0	0.084	46	25
50	-1.752	-1.753	0.147	0.109	33.929	6.59	286	97.1	27.309	1027.5	75.2	0.046	1440.3	0.075	38	50
75	-1.786	-1.788	0.133	0.077	33.963	6.57	286	98.2	27.337	1027.7	72.3	0.065	1440.6	0.047	28	74
100	-1.755	-1.757	0.185	0.110	33.998	6.72	292	98.2	27.365	1027.8	69.5	0.082	1441.2	0.042	5	99
125	-1.758	-1.761	0.202	0.108	34.020	6.71	292	98.6	27.384	1028.0	67.6	0.099	1441.6	0.037	7	124
150	-1.702	-1.706	0.278	0.165	34.041	6.68	290	98.6	27.399	1028.1	66.1	0.116	1442.3	0.022	10	148
175	-0.777	-0.782	1.231	1.099	34.193	5.76	250	98.7	27.491	1028.3	57.7	0.132	1447.3	0.017	197	173
200	-0.180	-0.187	1.853	1.703	34.312	5.22	227	98.7	27.560	1028.5	51.4	0.145	1450.6	0.029	320	198
225	0.329	0.320	2.387	2.218	34.414	4.85	211	98.7	27.616	1028.7	46.4	0.158	1453.5	0.020	321	222
250	0.756	0.746	2.838	2.650	34.500	4.54	197	98.7	27.660	1028.8	42.6	0.169	1456.0	0.032	348	247
275	1.103	1.090	3.208	3.001	34.572	4.32	188	98.7	27.695	1029.0	39.6	0.179	1458.0	0.033	355	272
300	1.391	1.376	3.518	3.292	34.634	4.19	182	98.7	27.725	1029.1	37.1	0.189	1459.8	0.022	69	297
325	1.544	1.527	3.692	3.447	34.668	4.13	179	98.7	27.742	1029.3	35.8	0.198	1461.0	0.024	53	321
350	1.621	1.603	3.789	3.526	34.694	4.12	179	98.7	27.757	1029.4	34.5	0.207	1461.7	0.031	70	346
375	1.645	1.626	3.833	3.551	34.706	4.14	180	98.7	27.765	1029.5	33.9	0.215	1462.3	0.028	62	371
400	1.639	1.618	3.846	3.545	34.714	4.16	181	98.7	27.772	1029.7	33.3	0.224	1462.7	0.025	75	395
425	1.623	1.601	3.850	3.529	34.718	4.18	182	98.7	27.777	1029.8	33.0	0.232	1463.0	0.044	91	420
450	1.597	1.574	3.842	3.504	34.721	4.20	182	98.7	27.780	1029.9	32.7	0.240	1463.3	0.046	84	445
475	1.573	1.548	3.837	3.480	34.724	4.22	184	98.7	27.785	1030.0	32.3	0.248	1463.6	0.044	84	470
500	1.548	1.522	3.831	3.455	34.725	4.24	184	98.7	27.788	1030.1	32.1	0.256	1463.9	0.047	86	494
550	1.496	1.468	3.817	3.403	34.728	4.28	186	98.7	27.794	1030.4	31.6	0.272	1464.5	0.052	83	544
600	1.448	1.416	3.806	3.354	34.728	4.31	187	98.7	27.798	1030.6	31.4	0.288	1465.1	0.044	97	593
650	1.397	1.363	3.793	3.304	34.729	4.35	189	98.7	27.803	1030.9	31.0	0.304	1465.7	0.039	92	642
700	1.329	1.293	3.763	3.236	34.729	4.39	191	98.7	27.808	1031.1	30.6	0.319	1466.2	0.035	74	692
750	1.277	1.238	3.749	3.184	34.728	4.43	192	98.7	27.811	1031.3	30.4	0.334	1466.8	0.038	58	741
800	1.227	1.185	3.736	3.134	34.727	4.46	194	98.7	27.814	1031.6	30.2	0.349	1467.4	0.035	38	790
850	1.182	1.137	3.728	3.088	34.726	4.48	195	98.7	27.816	1031.8	30.0	0.364	1468.0	0.034	42	839
900	1.134	1.087	3.718	3.040	34.725	4.51	196	98.7	27.819	1032.0	29.8	0.379	1468.7	0.055	32	889
950	1.094	1.044	3.715	3.000	34.724	4.54	197	98.7	27.821	1032.3	29.6	0.394	1469.3	0.060	42	938
1000	1.051	0.998	3.710	2.957	34.723	4.56	198	98.7	27.823	1032.5	29.5	0.409	1470.0	0.071	34	987
1088	0.928	0.871	3.653	2.834	34.717	4.62	201	98.7	27.826	1032.9	29.0	0.435	1470.8			1074

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	005B	2009/01/13	14:27	-71.1880	-102.3705	1088	4	1079	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
79	-1.799	-1.801	33.966	27.340	6.56	285	33.977					19	78
122	-1.812	-1.815	34.006	27.373	6.79	295	34.008	6.84	297			17,16	121
382	1.642	1.622	34.705	27.764	4.14	180	34.709	4.16	181			12	378
500	1.560	1.534	34.723	27.785	4.24	184	34.724	4.23	184			10	495
701	1.328	1.291	34.727	27.806	4.40	191	34.728	4.45	193			6	692
899	1.138	1.090	34.724	27.817	4.51	196	34.726	4.51	196			3	888
1088	0.928	0.871	34.717	27.827	4.62	201	34.717	4.59	200			1	1074

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	005U	2009/01/13	15:02	-71.1880	-102.3783	1088	4	1079	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.620	-1.620	0.220	0.219	33.558	7.42	323	27.004	1027.0	104.4	0.001	1439.6	1
25	-1.661	-1.662	0.205	0.186	33.688	7.22	314	27.110	1027.2	94.1	0.026	1440.0	25
50	-1.767	-1.768	0.132	0.094	33.927	6.59	286	27.308	1027.5	75.3	0.046	1440.2	50
75	-1.791	-1.792	0.129	0.072	33.963	6.56	285	27.338	1027.7	72.3	0.064	1440.5	74
100	-1.711	-1.713	0.229	0.154	33.990	6.47	281	27.358	1027.8	70.2	0.082	1441.4	99
125	-1.815	-1.818	0.144	0.050	34.007	6.79	295	27.374	1028.0	68.5	0.100	1441.3	124
150	-1.496	-1.500	0.485	0.372	34.063	6.44	280	27.411	1028.1	65.0	0.116	1443.3	148
175	-0.820	-0.825	1.187	1.056	34.192	5.87	255	27.492	1028.3	57.6	0.132	1447.1	173
200	-0.229	-0.235	1.805	1.654	34.310	5.34	232	27.561	1028.5	51.3	0.146	1450.4	198
225	0.216	0.208	2.274	2.104	34.397	4.98	216	27.608	1028.7	47.1	0.158	1453.0	222
250	0.621	0.610	2.702	2.513	34.479	4.67	203	27.651	1028.8	43.4	0.169	1455.3	247
275	1.004	0.992	3.108	2.901	34.554	4.40	191	27.688	1029.0	40.2	0.179	1457.6	272
300	1.352	1.338	3.479	3.253	34.626	4.20	183	27.721	1029.1	37.4	0.189	1459.6	297
325	1.539	1.522	3.687	3.442	34.666	4.13	179	27.741	1029.3	35.8	0.198	1460.9	321
350	1.600	1.582	3.768	3.505	34.688	4.12	179	27.754	1029.4	34.8	0.207	1461.6	346
375	1.620	1.601	3.808	3.525	34.699	4.13	180	27.761	1029.5	34.2	0.216	1462.2	371
400	1.649	1.628	3.856	3.555	34.711	4.15	180	27.768	1029.6	33.7	0.224	1462.7	395
425	1.621	1.599	3.847	3.527	34.714	4.18	181	27.773	1029.8	33.3	0.233	1463.0	420
450	1.600	1.576	3.845	3.506	34.718	4.20	182	27.778	1029.9	32.9	0.241	1463.3	445
475	1.577	1.552	3.841	3.483	34.720	4.22	183	27.782	1030.0	32.6	0.249	1463.6	470
500	1.558	1.531	3.841	3.464	34.723	4.24	184	27.785	1030.1	32.4	0.257	1464.0	494
550	1.509	1.480	3.830	3.415	34.724	4.27	186	27.790	1030.4	32.0	0.273	1464.6	544
600	1.449	1.417	3.807	3.355	34.725	4.31	187	27.796	1030.6	31.6	0.289	1465.1	593
650	1.402	1.368	3.798	3.309	34.726	4.35	189	27.800	1030.8	31.3	0.305	1465.7	642
700	1.326	1.290	3.760	3.233	34.727	4.39	191	27.806	1031.1	30.8	0.320	1466.2	692
750	1.283	1.243	3.754	3.189	34.725	4.42	192	27.808	1031.3	30.7	0.336	1466.8	741
800	1.229	1.187	3.738	3.136	34.724	4.46	194	27.811	1031.6	30.4	0.351	1467.4	790
850	1.181	1.136	3.727	3.087	34.723	4.49	195	27.814	1031.8	30.2	0.366	1468.0	839
900	1.135	1.087	3.719	3.041	34.723	4.51	196	27.817	1032.0	29.9	0.381	1468.7	889
950	1.092	1.042	3.713	2.998	34.721	4.54	197	27.818	1032.3	29.9	0.396	1469.3	938
1000	1.057	1.004	3.716	2.963	34.719	4.56	198	27.820	1032.5	29.8	0.411	1470.0	987
1088	0.928	0.871	3.653	2.834	34.717	4.62	201	27.826	1032.9	29.0	0.437	1470.8	1074


NBP0901 005
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0
20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**006D**	2009/01/14	00:46	-71.3391	-102.5711	627	5	625	5	4.0	211	-1.3	979.4

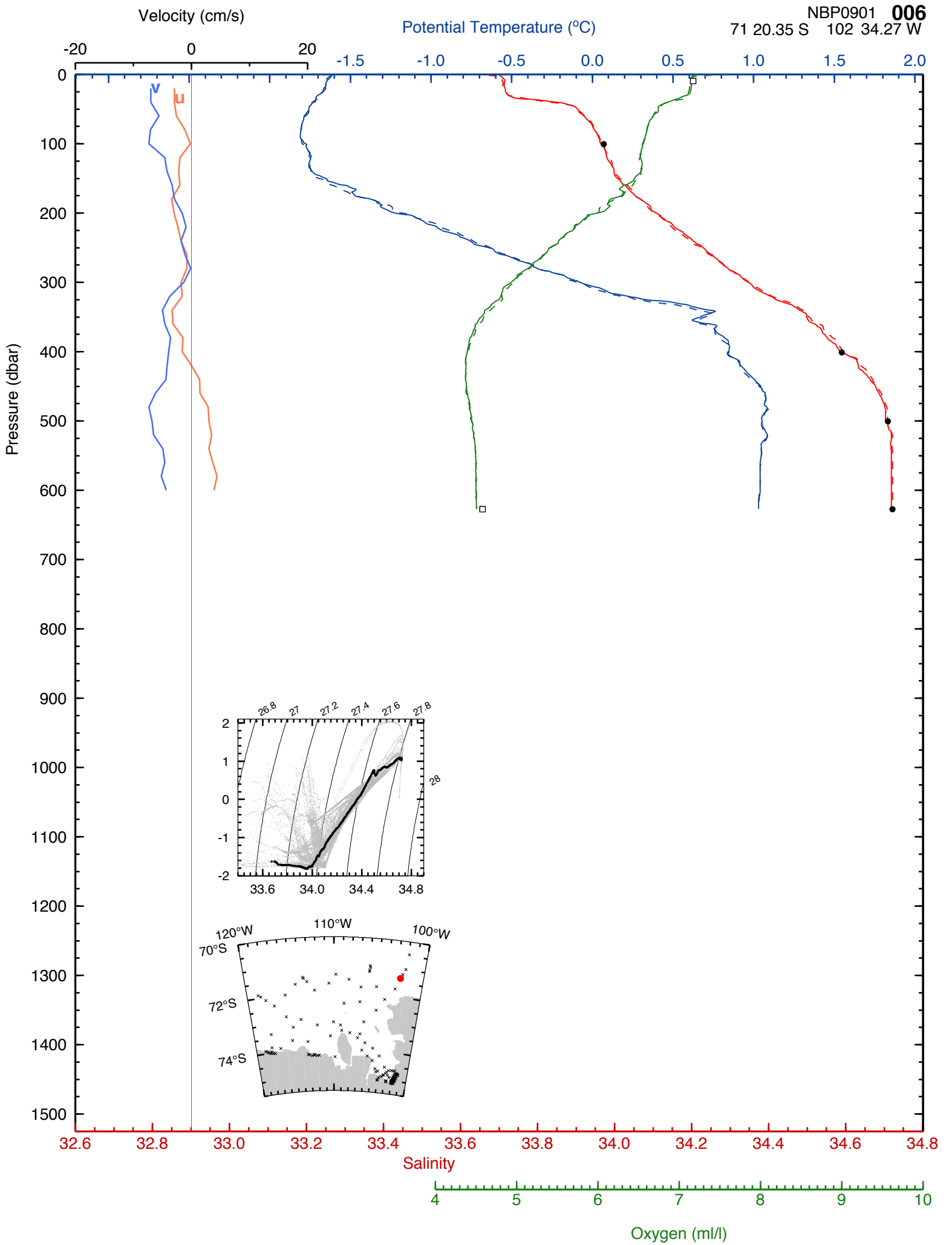
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.626	-1.626	0.221	0.220	33.672	7.16	311	96.4	27.097	1027.1	95.6	0.001	1439.7			1
25	-1.670	-1.670	0.198	0.179	33.716	7.14	310	96.5	27.134	1027.3	91.9	0.023	1440.0	0.076	202	25
50	-1.757	-1.758	0.141	0.103	33.906	6.74	293	97.4	27.290	1027.5	77.0	0.044	1440.2	0.069	204	50
75	-1.802	-1.803	0.117	0.060	33.945	6.61	287	98.1	27.323	1027.7	73.6	0.063	1440.5	0.069	194	74
100	-1.777	-1.779	0.162	0.087	33.970	6.55	285	98.5	27.343	1027.8	71.6	0.081	1441.0	0.073	182	99
125	-1.750	-1.752	0.209	0.115	33.992	6.54	284	98.6	27.360	1028.0	69.9	0.099	1441.6	0.050	204	124
150	-1.649	-1.652	0.329	0.217	34.014	6.45	280	98.7	27.375	1028.1	68.3	0.116	1442.5	0.044	209	148
175	-1.469	-1.473	0.531	0.399	34.055	6.29	273	98.7	27.403	1028.2	65.6	0.133	1443.8	0.043	223	173
200	-1.222	-1.227	0.800	0.649	34.100	6.00	261	98.7	27.432	1028.4	62.9	0.149	1445.5	0.035	241	198
225	-0.925	-0.931	1.119	0.949	34.157	5.69	247	98.7	27.468	1028.5	59.6	0.164	1447.4	0.025	246	222
250	-0.633	-0.641	1.433	1.245	34.228	5.40	235	98.7	27.513	1028.7	55.5	0.179	1449.2	0.021	222	247
275	-0.365	-0.374	1.723	1.516	34.283	5.19	226	98.7	27.546	1028.9	52.5	0.192	1451.0	0.010	244	272
300	-0.066	-0.077	2.045	1.819	34.349	4.93	214	98.7	27.584	1029.0	49.1	0.205	1452.8	0.020	239	297
325	0.347	0.334	2.481	2.236	34.427	4.78	208	98.6	27.625	1029.2	45.6	0.217	1455.2	0.041	204	321
350	0.685	0.670	2.843	2.579	34.504	4.56	198	98.6	27.668	1029.3	42.0	0.228	1457.3	0.059	214	346
375	0.804	0.787	2.983	2.700	34.555	4.45	194	98.6	27.702	1029.5	38.9	0.238	1458.3	0.047	208	371
400	0.861	0.843	3.061	2.760	34.594	4.39	191	98.6	27.729	1029.6	36.5	0.247	1459.0	0.041	202	395
425	0.961	0.941	3.183	2.863	34.651	4.38	190	98.4	27.769	1029.8	32.9	0.256	1460.0	0.042	180	420
450	1.055	1.034	3.298	2.959	34.680	4.38	190	98.4	27.786	1029.9	31.5	0.264	1460.8	0.050	163	445
475	1.090	1.067	3.352	2.995	34.703	4.42	192	98.4	27.802	1030.0	30.1	0.272	1461.4	0.071	163	470
500	1.077	1.052	3.359	2.982	34.710	4.45	193	98.5	27.808	1030.2	29.5	0.279	1461.8	0.075	157	494
550	1.074	1.047	3.394	2.980	34.722	4.50	195	98.6	27.819	1030.4	28.7	0.294	1462.6	0.057	147	544
600	1.070	1.040	3.428	2.976	34.721	4.50	196	98.6	27.819	1030.6	28.8	0.308	1463.4	0.062	139	593
627	1.062	1.030	3.440	2.968	34.720	4.51	196	98.6	27.818	1030.8	28.9	0.316	1463.8			620

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	006B	2009/01/14	01:06	-71.3391	-102.5731	627	5	625	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.656	-1.656	33.715	27.132	7.12	310		7.17	312			23,21	10
101	-1.790	-1.791	33.968	27.342	6.55	285	33.972					14,13	100
401	0.865	0.847	34.588	27.724	4.39	191	34.590					10	396
500	1.074	1.050	34.706	27.806	4.45	193	34.710					5	495
627	1.062	1.031	34.719	27.818	4.51	196	34.721	4.58	199			3	620

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	006U	2009/01/14	01:25	-71.3391	-102.5753	627	5	625	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.613	-1.613	0.235	0.235	33.704	7.41	322	27.122	1027.1	93.2	0.001	1439.8	1
25	-1.673	-1.674	0.194	0.175	33.717	7.12	309	27.134	1027.3	91.9	0.023	1440.0	25
50	-1.757	-1.758	0.140	0.102	33.904	6.73	292	27.289	1027.5	77.1	0.044	1440.2	50
75	-1.802	-1.803	0.116	0.060	33.943	6.61	287	27.322	1027.7	73.8	0.063	1440.5	74
100	-1.797	-1.799	0.141	0.066	33.965	6.56	285	27.339	1027.8	71.9	0.081	1440.9	99
125	-1.737	-1.740	0.221	0.127	33.985	6.51	283	27.354	1028.0	70.4	0.099	1441.6	124
150	-1.689	-1.692	0.290	0.177	34.009	6.50	283	27.372	1028.1	68.6	0.116	1442.3	148
175	-1.466	-1.470	0.533	0.402	34.053	6.30	274	27.402	1028.2	65.8	0.133	1443.8	173
200	-1.177	-1.183	0.844	0.694	34.108	6.00	261	27.437	1028.4	62.4	0.149	1445.7	198
225	-0.879	-0.886	1.165	0.995	34.170	5.68	247	27.476	1028.6	58.9	0.164	1447.6	222
250	-0.624	-0.632	1.442	1.254	34.231	5.42	235	27.515	1028.7	55.3	0.179	1449.3	247
275	-0.361	-0.371	1.727	1.520	34.285	5.20	226	27.547	1028.9	52.4	0.192	1451.0	272
300	-0.083	-0.094	2.028	1.802	34.347	4.97	216	27.584	1029.0	49.1	0.205	1452.8	297
325	0.291	0.278	2.425	2.180	34.420	4.82	210	27.623	1029.2	45.8	0.217	1455.0	321
350	0.712	0.696	2.869	2.605	34.499	4.59	200	27.662	1029.3	42.6	0.228	1457.4	346
375	0.782	0.766	2.961	2.679	34.545	4.48	195	27.695	1029.5	39.6	0.238	1458.2	371
400	0.866	0.847	3.065	2.764	34.587	4.40	191	27.723	1029.6	37.0	0.247	1459.0	395
425	0.938	0.918	3.159	2.840	34.636	4.37	190	27.758	1029.8	33.9	0.256	1459.8	420
450	1.065	1.044	3.308	2.969	34.678	4.38	190	27.784	1029.9	31.7	0.264	1460.9	445
475	1.093	1.069	3.355	2.998	34.699	4.41	192	27.799	1030.0	30.4	0.272	1461.4	470
500	1.075	1.050	3.357	2.980	34.707	4.45	193	27.806	1030.2	29.7	0.280	1461.8	494
550	1.073	1.046	3.393	2.979	34.718	4.50	195	27.816	1030.4	28.9	0.294	1462.6	544
600	1.068	1.038	3.426	2.974	34.718	4.50	196	27.817	1030.6	29.0	0.309	1463.4	593
627	1.062	1.030	3.440	2.968	34.720	4.51	196	27.818	1030.8	28.9	0.317	1463.8	620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20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**007D**	2009/01/14	05:37	-71.7278	-103.0358	738	8	737	8	4.7	208	-2.2	978.9

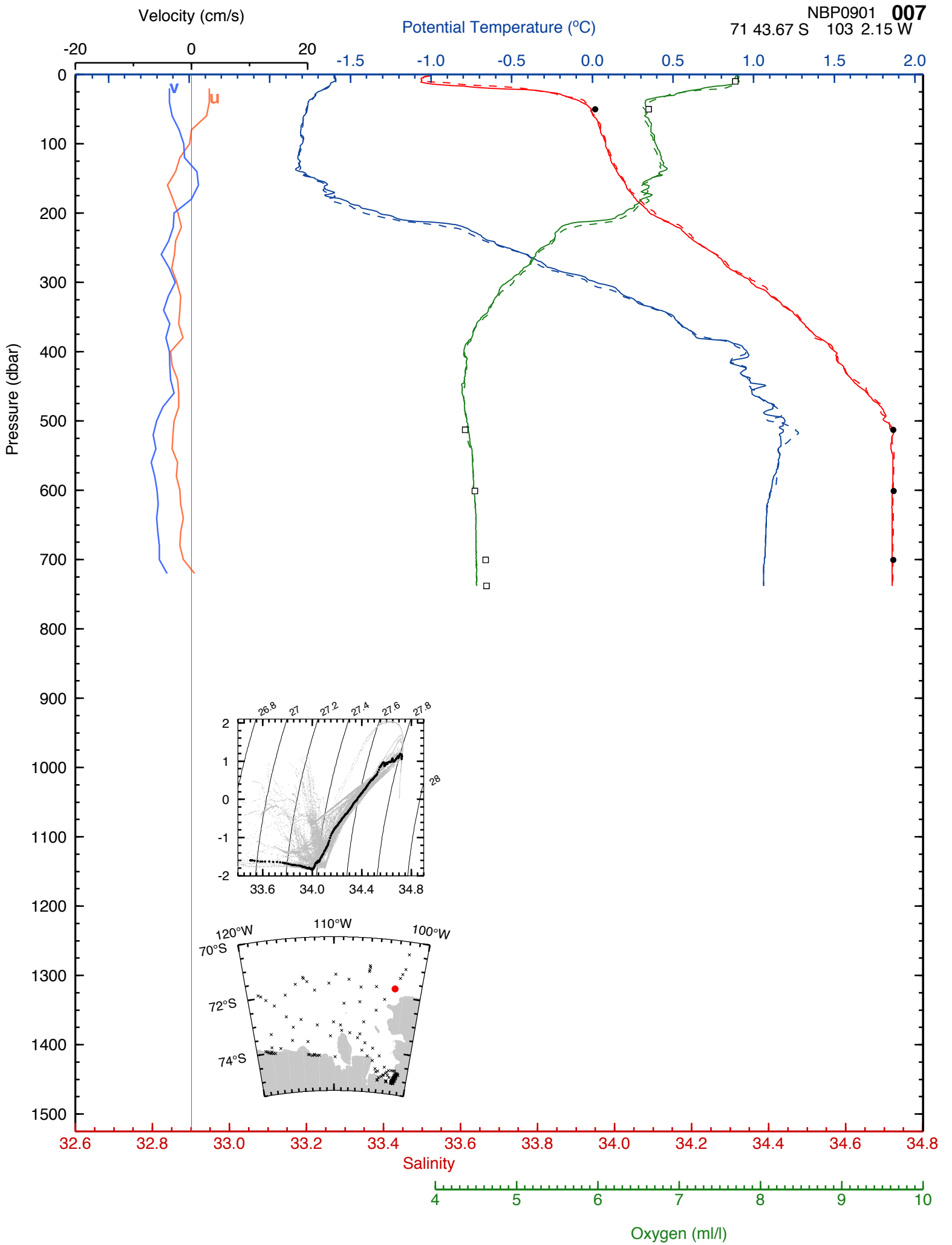
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.597	-1.597	0.242	0.240	33.519	7.74	336	87.7	26.972	1027.0	107.4	0.002	1439.7			2
25	-1.700	-1.700	0.174	0.155	33.819	7.05	307	91.4	27.218	1027.3	83.9	0.025	1440.0	0.049	141	25
50	-1.767	-1.768	0.132	0.094	33.936	6.60	287	97.6	27.315	1027.6	74.6	0.044	1440.2	0.046	141	50
75	-1.805	-1.806	0.115	0.058	33.964	6.65	289	98.0	27.338	1027.7	72.2	0.063	1440.5	0.027	169	74
100	-1.798	-1.800	0.141	0.066	33.978	6.71	292	97.9	27.350	1027.8	70.9	0.081	1440.9	0.013	192	99
125	-1.808	-1.810	0.151	0.057	33.995	6.80	295	98.1	27.364	1028.0	69.5	0.098	1441.3	0.024	248	124
150	-1.716	-1.720	0.263	0.150	34.022	6.66	289	98.5	27.384	1028.1	67.4	0.115	1442.2	0.034	288	148
175	-1.653	-1.657	0.347	0.215	34.052	6.66	289	98.6	27.407	1028.2	65.2	0.132	1443.0	0.036	276	173
200	-1.317	-1.322	0.704	0.554	34.105	6.32	275	98.6	27.439	1028.4	62.2	0.148	1445.0	0.037	223	198
225	-0.748	-0.754	1.297	1.128	34.184	5.51	240	98.6	27.482	1028.6	58.4	0.163	1448.2	0.036	209	222
250	-0.519	-0.527	1.548	1.360	34.236	5.31	231	98.6	27.515	1028.7	55.4	0.177	1449.8	0.052	213	247
275	-0.283	-0.292	1.806	1.599	34.295	5.15	224	98.6	27.552	1028.9	52.1	0.190	1451.4	0.055	217	272
300	0.033	0.022	2.145	1.919	34.367	4.88	212	98.6	27.594	1029.0	48.3	0.203	1453.3	0.040	222	297
325	0.274	0.261	2.408	2.163	34.423	4.73	205	98.6	27.626	1029.2	45.5	0.215	1454.9	0.044	205	321
350	0.522	0.507	2.678	2.414	34.479	4.57	199	98.6	27.657	1029.3	42.8	0.226	1456.5	0.049	205	346
375	0.643	0.626	2.820	2.537	34.515	4.46	194	98.6	27.679	1029.5	40.9	0.236	1457.5	0.045	204	371
400	0.977	0.958	3.176	2.875	34.572	4.35	189	98.6	27.704	1029.6	39.0	0.246	1459.5	0.051	218	395
425	0.971	0.951	3.190	2.870	34.598	4.37	190	98.6	27.726	1029.7	37.0	0.256	1459.9	0.050	222	420
450	1.083	1.061	3.324	2.985	34.651	4.33	188	98.5	27.761	1029.9	33.9	0.265	1460.9	0.042	214	445
475	1.133	1.110	3.395	3.038	34.689	4.36	189	98.4	27.788	1030.0	31.4	0.273	1461.6	0.045	211	469
500	1.219	1.194	3.501	3.125	34.713	4.39	191	98.5	27.802	1030.2	30.4	0.280	1462.4	0.063	206	494
550	1.188	1.160	3.509	3.095	34.725	4.46	194	98.6	27.814	1030.4	29.3	0.295	1463.1	0.070	207	544
600	1.136	1.106	3.495	3.043	34.724	4.48	194	98.6	27.816	1030.6	29.2	0.310	1463.7	0.064	200	593
650	1.109	1.077	3.505	3.016	34.723	4.50	195	98.6	27.818	1030.9	29.1	0.325	1464.4	0.062	194	642
700	1.102	1.067	3.536	3.009	34.722	4.50	196	98.6	27.818	1031.1	29.2	0.339	1465.2	0.058	197	692
738	1.099	1.061	3.561	3.005	34.721	4.51	196	98.5	27.817	1031.3	29.4	0.350	1465.8			729

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	007B	2009/01/14	05:59	-71.7285	-103.0349	738	8	737	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.592	-1.592	33.497	26.954	7.68	334		7.69	335	2169.9		23,22	10
50	-1.776	-1.778	33.943	27.321	6.59	286	33.950	6.62	288	2197.5		20,19	50
118	-1.819	-1.822	33.989	27.360	6.74	293				2202.1		17	116
401	0.984	0.965	34.573	27.705	4.35	189				2255.2		14	396
513	1.267	1.241	34.722	27.805	4.39	191	34.723	4.37	190	2235.8		11,10	507
601	1.136	1.106	34.722	27.815	4.48	195	34.725	4.48	195	2261.1		9,8	594
700	1.103	1.067	34.721	27.817	4.50	196	34.724	4.62	201	2259.4		5,4	692
738	1.099	1.061	34.721	27.817	4.51	196		4.63	201	2261.1		2,1	729

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	007U	2009/01/14	06:29	-71.7294	-103.0325	738	8	737	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.603	-1.603	0.235	0.235	33.520	7.70	335	26.973	1027.0	107.4	0.001	1439.7	1
25	-1.700	-1.700	0.174	0.155	33.823	7.08	308	27.221	1027.3	83.6	0.026	1440.0	25
50	-1.774	-1.775	0.125	0.087	33.941	6.58	286	27.319	1027.6	74.2	0.045	1440.2	50
75	-1.795	-1.797	0.124	0.067	33.960	6.62	288	27.335	1027.7	72.5	0.063	1440.5	74
100	-1.794	-1.796	0.145	0.070	33.977	6.68	291	27.349	1027.8	71.0	0.081	1441.0	99
125	-1.820	-1.823	0.138	0.044	33.991	6.76	294	27.361	1028.0	69.7	0.099	1441.2	124
150	-1.734	-1.737	0.245	0.132	34.018	6.68	290	27.381	1028.1	67.8	0.116	1442.1	148
175	-1.598	-1.602	0.401	0.269	34.049	6.55	285	27.402	1028.2	65.6	0.133	1443.2	173
200	-1.410	-1.414	0.611	0.461	34.092	6.41	279	27.431	1028.4	62.8	0.149	1444.6	198
225	-0.799	-0.806	1.245	1.076	34.175	5.57	242	27.477	1028.6	58.8	0.164	1448.0	222
250	-0.530	-0.538	1.537	1.348	34.235	5.36	233	27.514	1028.7	55.4	0.178	1449.7	247
275	-0.322	-0.331	1.767	1.560	34.288	5.17	225	27.548	1028.9	52.4	0.192	1451.2	272
300	-0.020	-0.031	2.091	1.865	34.354	4.96	215	27.587	1029.0	49.0	0.204	1453.1	297
325	0.261	0.248	2.395	2.150	34.420	4.74	206	27.625	1029.2	45.6	0.216	1454.8	321
350	0.509	0.494	2.664	2.401	34.475	4.61	200	27.655	1029.3	43.0	0.227	1456.5	346
375	0.656	0.640	2.833	2.551	34.517	4.45	194	27.680	1029.5	40.8	0.238	1457.6	371
400	0.973	0.954	3.172	2.871	34.572	4.35	189	27.705	1029.6	38.9	0.248	1459.5	395
425	0.974	0.954	3.193	2.873	34.596	4.38	191	27.724	1029.7	37.2	0.257	1460.0	420
450	0.997	0.976	3.238	2.899	34.634	4.36	189	27.753	1029.9	34.5	0.266	1460.5	445
475	1.128	1.105	3.390	3.032	34.684	4.36	189	27.785	1030.0	31.8	0.274	1461.6	469
500	1.118	1.093	3.400	3.023	34.701	4.38	190	27.799	1030.2	30.5	0.282	1462.0	494
550	1.191	1.163	3.511	3.097	34.722	4.45	194	27.811	1030.4	29.6	0.297	1463.2	544
600	1.146	1.116	3.504	3.052	34.722	4.47	194	27.814	1030.6	29.4	0.312	1463.8	593
650	1.110	1.077	3.506	3.016	34.721	4.50	195	27.816	1030.9	29.3	0.327	1464.4	642
700	1.103	1.067	3.536	3.009	34.721	4.50	196	27.817	1031.1	29.4	0.341	1465.2	692
738	1.099	1.061	3.561	3.005	34.721	4.51	196	27.817	1031.3	29.4	0.352	1465.8	729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20
v
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Potential Temperature (°C)
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-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**008D**	2009/01/14	20:03	-72.1327	-104.1030	579	7	579	3	6.5	216	-1.1	977.7

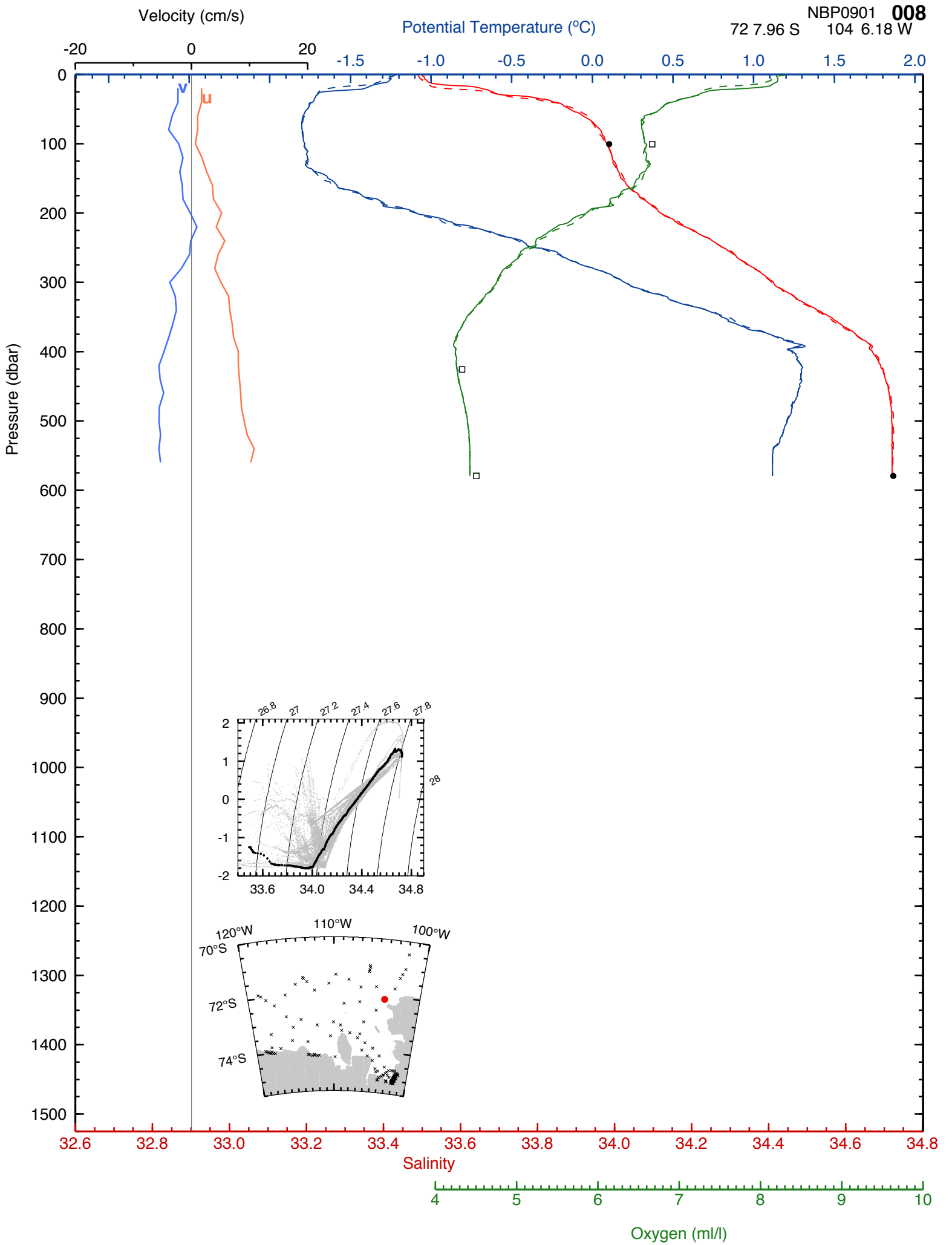
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.253	-1.253	0.583	0.583	33.490	8.20	357	81.7	26.938	1026.9	110.6	0.001	1441.3			1
25	-1.675	-1.675	0.190	0.171	33.670	7.33	319	93.1	27.096	1027.2	95.5	0.027	1439.9	0.029	144	25
50	-1.768	-1.769	0.129	0.091	33.900	6.76	294	96.7	27.286	1027.5	77.3	0.048	1440.2	0.032	152	50
75	-1.800	-1.801	0.119	0.062	33.949	6.54	284	98.1	27.326	1027.7	73.3	0.067	1440.5	0.039	163	74
100	-1.782	-1.784	0.157	0.082	33.979	6.59	286	98.4	27.351	1027.8	70.9	0.085	1441.0	0.024	162	99
125	-1.762	-1.764	0.197	0.103	33.996	6.60	287	98.5	27.363	1028.0	69.5	0.102	1441.5	0.025	129	124
150	-1.635	-1.638	0.344	0.231	34.025	6.49	282	98.6	27.384	1028.1	67.5	0.120	1442.6	0.035	122	148
175	-1.424	-1.428	0.577	0.445	34.061	6.26	272	98.6	27.407	1028.2	65.3	0.136	1444.1	0.040	112	173
200	-1.087	-1.093	0.935	0.784	34.120	5.86	255	98.6	27.444	1028.4	61.9	0.152	1446.1	0.051	94	198
225	-0.663	-0.670	1.383	1.213	34.203	5.42	236	98.6	27.494	1028.6	57.3	0.167	1448.7	0.046	80	222
250	-0.339	-0.347	1.730	1.542	34.282	5.13	223	98.6	27.544	1028.7	52.8	0.181	1450.7	0.053	92	247
275	-0.054	-0.065	2.037	1.830	34.345	4.92	214	98.6	27.581	1028.9	49.5	0.193	1452.5	0.044	105	272
300	0.211	0.199	2.325	2.099	34.408	4.75	206	98.6	27.617	1029.0	46.2	0.205	1454.2	0.060	124	297
325	0.497	0.483	2.634	2.389	34.474	4.57	199	98.6	27.655	1029.2	43.0	0.216	1456.0	0.070	113	321
350	0.819	0.803	2.979	2.715	34.553	4.38	191	98.6	27.699	1029.4	39.2	0.227	1458.0	0.073	112	346
375	1.118	1.100	3.301	3.019	34.626	4.27	186	98.6	27.738	1029.5	35.9	0.236	1459.8	0.080	116	371
400	1.264	1.244	3.469	3.167	34.673	4.25	185	98.6	27.766	1029.6	33.4	0.245	1461.0	0.091	120	395
425	1.317	1.296	3.542	3.222	34.697	4.27	185	98.6	27.782	1029.8	32.1	0.253	1461.6	0.098	125	420
450	1.309	1.287	3.554	3.215	34.711	4.31	187	98.6	27.793	1029.9	31.1	0.261	1462.0	0.099	122	445
475	1.266	1.243	3.530	3.173	34.719	4.36	189	98.6	27.803	1030.0	30.2	0.269	1462.2	0.100	121	469
500	1.233	1.208	3.516	3.139	34.724	4.40	191	98.6	27.809	1030.2	29.7	0.276	1462.5	0.105	122	494
550	1.145	1.117	3.465	3.051	34.723	4.43	192	98.2	27.815	1030.4	29.2	0.291	1462.9	0.121	117	544
579	1.146	1.117	3.488	3.052	34.722	4.43	192	98.2	27.814	1030.5	29.3	0.299	1463.4			572

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	008B	2009/01/14	20:20	-72.1324	-104.1046	579	7	579	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
100	-1.786	-1.788	33.981	27.352	6.58	286	33.986	6.67	290			14,13	99
426	1.315	1.293	34.695	27.780	4.27	185		4.33	188			10,8	421
579	1.146	1.117	34.722	27.814	4.42	192	34.723	4.50	196			2,1	572

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	008U	2009/01/14	20:38	-72.1321	-104.1062	579	7	579	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.223	-1.223	0.614	0.613	33.501	8.31	361	26.946	1027.0	109.9	0.001	1441.4	1
25	-1.697	-1.697	0.169	0.150	33.684	7.28	317	27.108	1027.2	94.3	0.026	1439.8	25
50	-1.763	-1.764	0.133	0.095	33.884	6.75	294	27.273	1027.5	78.6	0.047	1440.2	50
75	-1.797	-1.798	0.122	0.065	33.954	6.53	284	27.331	1027.7	73.0	0.066	1440.5	74
100	-1.786	-1.788	0.153	0.078	33.981	6.59	286	27.352	1027.8	70.7	0.084	1441.0	99
125	-1.772	-1.774	0.187	0.093	33.998	6.62	288	27.366	1028.0	69.3	0.102	1441.5	124
150	-1.680	-1.683	0.299	0.186	34.017	6.55	285	27.379	1028.1	68.0	0.119	1442.4	148
175	-1.421	-1.425	0.580	0.448	34.064	6.27	273	27.409	1028.2	65.1	0.135	1444.1	173
200	-1.088	-1.094	0.934	0.784	34.120	5.90	257	27.444	1028.4	61.9	0.151	1446.1	198
225	-0.659	-0.666	1.387	1.218	34.206	5.46	237	27.497	1028.6	57.1	0.166	1448.7	222
250	-0.343	-0.352	1.726	1.538	34.283	5.20	226	27.545	1028.7	52.7	0.180	1450.7	247
275	-0.046	-0.056	2.046	1.839	34.348	4.93	214	27.583	1028.9	49.3	0.193	1452.5	272
300	0.228	0.217	2.343	2.117	34.412	4.76	207	27.620	1029.0	46.0	0.204	1454.3	297
325	0.489	0.475	2.626	2.381	34.477	4.58	199	27.657	1029.2	42.8	0.216	1456.0	321
350	0.850	0.834	3.011	2.747	34.560	4.39	191	27.703	1029.4	38.9	0.226	1458.1	346
375	1.123	1.105	3.306	3.024	34.626	4.28	186	27.738	1029.5	35.9	0.235	1459.8	371
400	1.256	1.236	3.460	3.159	34.670	4.25	185	27.764	1029.6	33.7	0.244	1460.9	395
425	1.315	1.294	3.540	3.220	34.696	4.27	185	27.781	1029.8	32.2	0.252	1461.6	420
450	1.304	1.281	3.548	3.209	34.710	4.31	187	27.794	1029.9	31.1	0.260	1462.0	445
475	1.263	1.239	3.527	3.169	34.716	4.35	189	27.801	1030.0	30.4	0.268	1462.2	469
500	1.229	1.204	3.512	3.136	34.720	4.39	191	27.806	1030.2	29.9	0.275	1462.5	494
550	1.145	1.118	3.465	3.051	34.720	4.43	192	27.813	1030.4	29.4	0.290	1462.9	544
579	1.146	1.117	3.488	3.052	34.722	4.43	192	27.814	1030.5	29.3	0.298	1463.4	572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NBP0901 008
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104 6.18 W
Pressure (dbar)
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400
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1000
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1300
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26.8
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27.2
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**009D**	2009/01/15	05:57	-72.5474	-104.9719	541	9	544	6	2.9	221	-2.0	977.5

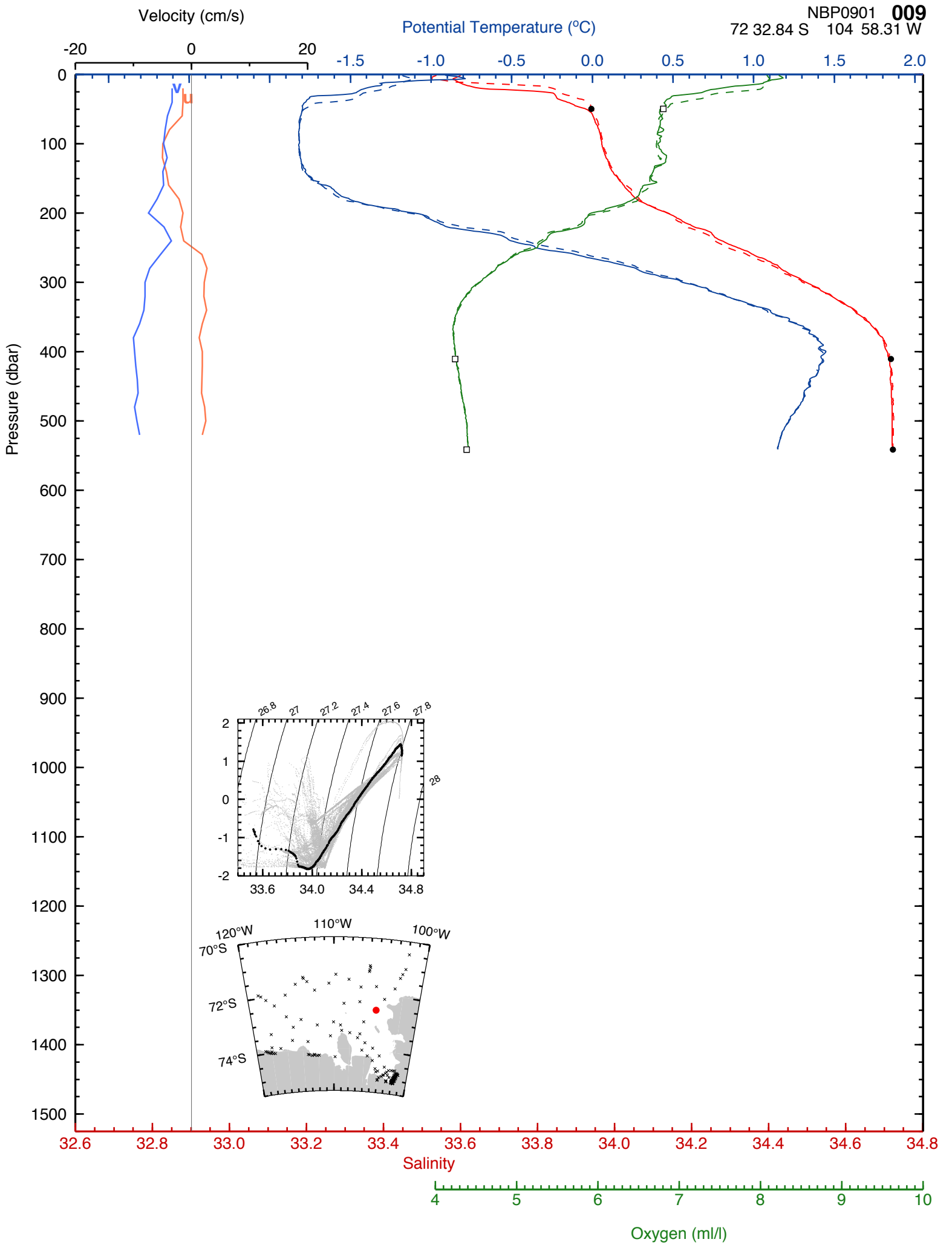
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.914	-0.914	0.926	0.925	33.538	8.22	358	84.0	26.965	1027.0	108.1	0.001	1442.9			1
25	-1.457	-1.458	0.418	0.400	33.855	7.30	317	92.0	27.241	1027.4	81.8	0.024	1441.2	0.036	204	25
50	-1.797	-1.798	0.103	0.065	33.943	6.77	294	97.7	27.322	1027.6	74.0	0.043	1440.1	0.040	203	50
75	-1.816	-1.817	0.103	0.047	33.960	6.76	294	98.3	27.336	1027.7	72.5	0.062	1440.4	0.055	215	74
100	-1.817	-1.819	0.122	0.046	33.970	6.74	293	98.4	27.344	1027.8	71.5	0.080	1440.8	0.069	225	99
125	-1.804	-1.806	0.155	0.060	33.985	6.83	297	98.5	27.356	1028.0	70.2	0.097	1441.3	0.065	228	124
150	-1.735	-1.738	0.243	0.130	34.010	6.65	289	98.6	27.375	1028.1	68.3	0.115	1442.1	0.064	220	148
175	-1.559	-1.563	0.441	0.309	34.053	6.50	283	98.6	27.405	1028.2	65.4	0.131	1443.4	0.063	206	173
200	-1.098	-1.103	0.926	0.775	34.139	5.92	257	98.6	27.459	1028.4	60.4	0.147	1446.1	0.074	192	198
225	-0.754	-0.761	1.292	1.123	34.214	5.60	243	98.6	27.507	1028.6	56.0	0.162	1448.2	0.049	202	222
250	-0.345	-0.353	1.725	1.537	34.294	5.25	228	98.6	27.554	1028.7	51.8	0.175	1450.7	0.044	186	247
275	0.200	0.190	2.296	2.089	34.407	4.79	208	98.6	27.617	1028.9	46.3	0.187	1453.7	0.069	160	272
300	0.571	0.558	2.690	2.464	34.489	4.54	197	98.6	27.662	1029.1	42.3	0.199	1456.0	0.082	164	297
325	0.906	0.891	3.048	2.804	34.578	4.34	189	98.6	27.713	1029.2	37.9	0.209	1458.0	0.083	165	321
350	1.204	1.187	3.369	3.106	34.645	4.24	184	98.6	27.748	1029.4	35.0	0.218	1459.8	0.087	164	346
375	1.374	1.355	3.561	3.279	34.689	4.23	184	98.6	27.771	1029.5	33.0	0.226	1461.0	0.096	170	371
400	1.468	1.447	3.675	3.373	34.713	4.25	185	98.6	27.784	1029.7	32.0	0.234	1461.9	0.100	170	395
425	1.427	1.405	3.653	3.333	34.719	4.27	186	98.6	27.791	1029.8	31.4	0.242	1462.1	0.098	169	420
450	1.375	1.352	3.620	3.281	34.722	4.31	187	98.6	27.798	1029.9	30.7	0.250	1462.3	0.095	169	445
475	1.315	1.291	3.579	3.222	34.724	4.35	189	98.6	27.803	1030.0	30.3	0.257	1462.5	0.097	168	469
500	1.244	1.219	3.527	3.151	34.724	4.38	190	98.5	27.809	1030.2	29.7	0.265	1462.6	0.098	166	494
541	1.173	1.147	3.487	3.080	34.722	4.41	192	98.1	27.812	1030.4	29.4	0.277	1462.9			535

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	009B	2009/01/15	06:13	-72.5471	-104.9712	541	9	544	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
9	-1.173	-1.173	33.594	27.020	8.06	351				2152.7		24,23	9
50	-1.789	-1.790	33.929	27.310	6.82	296	33.939	6.80	296	2199.2		20,19	49
123	-1.803	-1.806	33.985	27.356	6.80	296				2201.9		16	121
205	-0.984	-0.989	34.166	27.477	5.79	252				2222.8		11	202
410	1.458	1.437	34.714	27.785	4.25	185	34.717	4.24	184	2256.1		10,8	406
541	1.173	1.146	34.722	27.812	4.41	192	34.723	4.38	191	2260.1		2,1	535

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	009U	2009/01/15	06:35	-72.5463	-104.9715	541	9	544	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.177	-1.177	0.666	0.665	33.600	8.08	351	27.025	1027.0	102.4	0.001	1441.8	1
25	-1.381	-1.381	0.493	0.474	33.815	7.66	333	27.206	1027.3	85.1	0.025	1441.5	25
50	-1.787	-1.788	0.111	0.074	33.927	6.83	297	27.308	1027.5	75.2	0.045	1440.1	50
75	-1.814	-1.815	0.105	0.048	33.956	6.76	294	27.332	1027.7	72.8	0.064	1440.4	74
100	-1.819	-1.821	0.119	0.044	33.967	6.72	292	27.342	1027.8	71.7	0.082	1440.8	99
125	-1.804	-1.807	0.154	0.060	33.983	6.81	296	27.354	1028.0	70.4	0.099	1441.3	124
150	-1.739	-1.742	0.240	0.127	34.009	6.64	289	27.374	1028.1	68.4	0.117	1442.1	148
175	-1.588	-1.592	0.411	0.279	34.047	6.52	283	27.401	1028.2	65.8	0.134	1443.2	173
200	-1.134	-1.140	0.889	0.738	34.137	6.04	262	27.459	1028.4	60.4	0.149	1445.9	198
225	-0.623	-0.630	1.425	1.255	34.239	5.52	240	27.522	1028.6	54.7	0.164	1448.9	222
250	-0.231	-0.240	1.841	1.652	34.321	5.18	225	27.570	1028.8	50.4	0.177	1451.2	247
275	0.256	0.245	2.352	2.145	34.422	4.78	208	27.626	1028.9	45.4	0.189	1454.0	272
300	0.596	0.584	2.716	2.490	34.497	4.55	198	27.668	1029.1	41.9	0.200	1456.1	297
325	0.909	0.894	3.052	2.807	34.578	4.36	189	27.713	1029.2	37.9	0.210	1458.0	321
350	1.193	1.176	3.359	3.095	34.644	4.25	185	27.747	1029.4	35.0	0.219	1459.8	346
375	1.371	1.352	3.557	3.275	34.685	4.22	183	27.768	1029.5	33.3	0.228	1461.0	371
400	1.444	1.423	3.650	3.349	34.708	4.24	184	27.781	1029.7	32.2	0.236	1461.8	395
425	1.401	1.379	3.627	3.307	34.718	4.29	186	27.793	1029.8	31.2	0.244	1462.0	420
450	1.369	1.346	3.614	3.275	34.718	4.31	187	27.795	1029.9	31.0	0.251	1462.3	445
475	1.314	1.290	3.578	3.220	34.720	4.34	189	27.800	1030.0	30.5	0.259	1462.5	469
500	1.242	1.217	3.525	3.148	34.721	4.38	190	27.806	1030.2	30.0	0.267	1462.5	494
541	1.173	1.147	3.487	3.080	34.722	4.41	192	27.812	1030.4	29.4	0.279	1462.9	535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20
v
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Potential Temperature (°C)
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-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
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100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**010D**	2009/01/15	16:41	-73.0075	-106.3521	598	7	598	5	1.3	260	-1.1	977.2

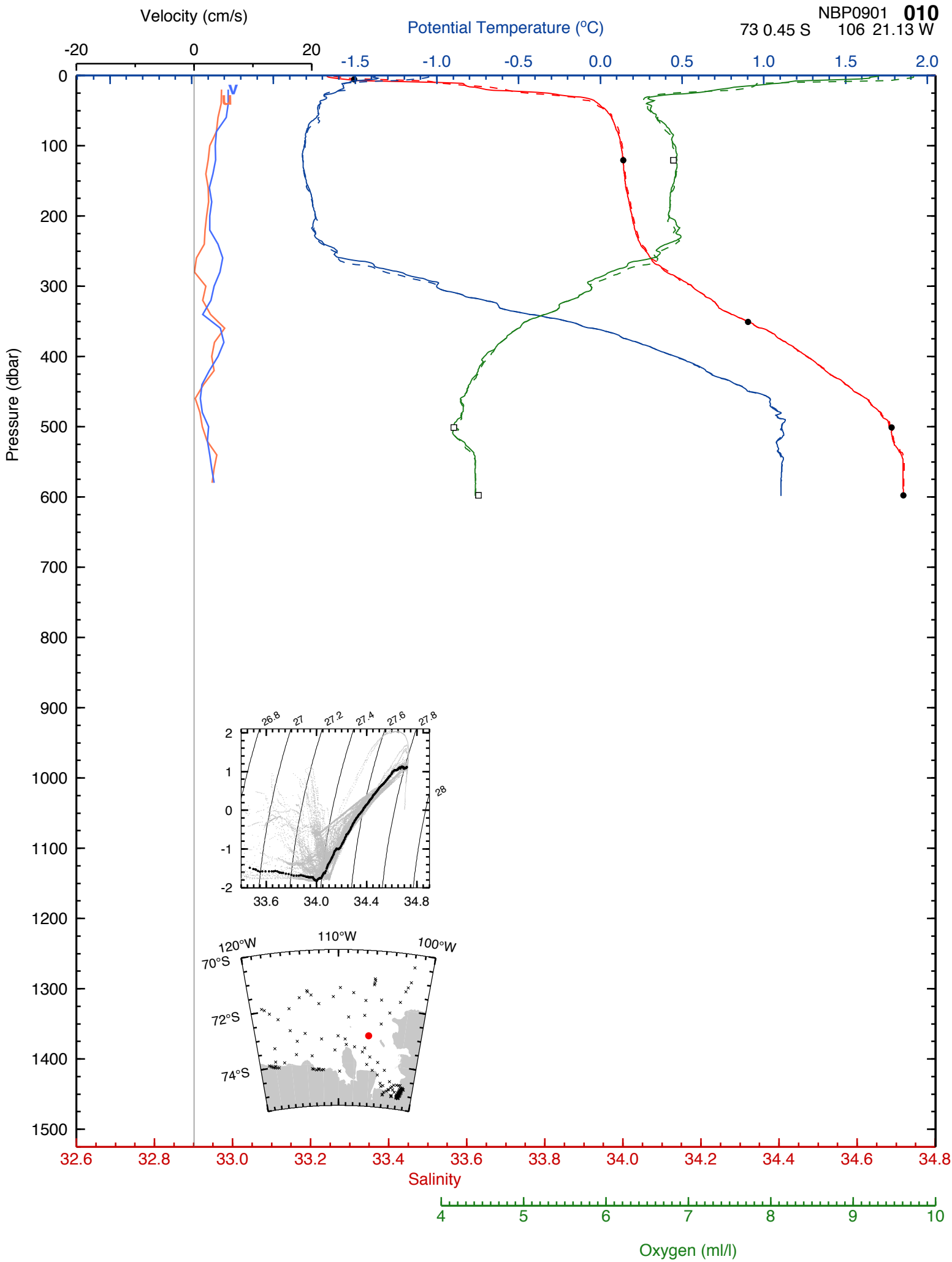
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.374	-1.374	0.449	0.448	33.259	9.31	405	61.4	26.754	1026.8	128.1	0.001	1440.4		0	1
25	-1.632	-1.633	0.238	0.219	33.756	7.05	307	87.8	27.165	1027.3	89.0	0.027	1440.2	0.075	39	25
50	-1.727	-1.728	0.174	0.136	33.956	6.54	284	97.6	27.330	1027.6	73.2	0.046	1440.4	0.072	38	50
75	-1.789	-1.791	0.131	0.075	33.987	6.76	294	98.1	27.358	1027.7	70.4	0.064	1440.6	0.058	43	74
100	-1.810	-1.812	0.130	0.055	33.998	6.84	297	98.3	27.367	1027.8	69.3	0.081	1440.9	0.045	37	99
125	-1.817	-1.819	0.143	0.048	34.002	6.86	298	98.4	27.370	1028.0	68.9	0.099	1441.3	0.043	33	124
150	-1.796	-1.799	0.182	0.070	34.009	6.83	297	98.4	27.375	1028.1	68.3	0.116	1441.8	0.037	36	148
175	-1.761	-1.765	0.237	0.105	34.017	6.77	294	98.4	27.381	1028.2	67.6	0.133	1442.4	0.038	41	173
200	-1.739	-1.743	0.278	0.127	34.025	6.76	294	98.3	27.387	1028.3	66.9	0.150	1442.9	0.035	38	198
225	-1.739	-1.744	0.298	0.128	34.037	6.85	298	98.4	27.397	1028.5	65.8	0.166	1443.3	0.034	34	222
250	-1.604	-1.610	0.453	0.265	34.062	6.62	288	98.4	27.413	1028.6	64.2	0.182	1444.4	0.046	16	247
275	-1.321	-1.328	0.757	0.550	34.105	6.17	268	98.5	27.439	1028.8	61.8	0.198	1446.2	0.046	3	272
300	-0.993	-1.002	1.108	0.882	34.177	5.82	253	98.5	27.487	1028.9	57.5	0.213	1448.3	0.040	25	297
325	-0.620	-0.630	1.504	1.259	34.239	5.44	237	98.5	27.521	1029.1	54.5	0.227	1450.5	0.033	30	321
350	-0.187	-0.199	1.960	1.697	34.319	5.03	219	98.5	27.567	1029.2	50.6	0.240	1453.1	0.043	58	346
375	0.171	0.156	2.341	2.059	34.402	4.78	208	98.5	27.615	1029.4	46.4	0.252	1455.2	0.065	41	371
400	0.476	0.459	2.669	2.368	34.472	4.52	197	98.5	27.655	1029.5	43.0	0.264	1457.1	0.053	36	395
425	0.700	0.681	2.916	2.596	34.531	4.43	193	98.5	27.689	1029.7	40.1	0.274	1458.6	0.043	53	420
450	0.933	0.911	3.170	2.831	34.592	4.31	187	98.5	27.723	1029.8	37.2	0.284	1460.2	0.019	41	445
475	1.085	1.062	3.345	2.988	34.649	4.27	185	98.4	27.759	1030.0	34.1	0.292	1461.3	0.014	22	469
500	1.133	1.108	3.414	3.037	34.685	4.16	181	98.3	27.785	1030.1	31.8	0.301	1462.0	0.025	31	494
550	1.139	1.112	3.460	3.046	34.720	4.41	192	98.3	27.813	1030.4	29.3	0.316	1462.9	0.047	54	543
598	1.134	1.104	3.490	3.040	34.719	4.42	192	98.1	27.812	1030.6	29.5	0.330	1463.7		0	591

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	010B	2009/01/15	16:58	-73.0067	-106.3509	598	7	598	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
6	-1.180	-1.180	33.320	26.797	9.57	416	33.312					21	6
121	-1.815	-1.817	34.002	27.370	6.85	298	34.001	6.82	296			13	119
351	-0.185	-0.198	34.319	27.567	5.03	218	34.321					9	347
501	1.134	1.109	34.685	27.785	4.16	181	34.688	4.15	180			5	495
598	1.133	1.104	34.719	27.812	4.42	192	34.718	4.45	194			2,1	591

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	010U	2009/01/15	17:22	-73.0055	-106.3498	598	7	598	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.054	-1.054	0.768	0.768	33.242	9.73	423	26.730	1026.7	130.4	0.001	1441.9	1
25	-1.675	-1.676	0.198	0.179	33.808	6.80	296	27.208	1027.3	84.9	0.027	1440.1	25
50	-1.720	-1.721	0.180	0.142	33.958	6.53	284	27.332	1027.6	73.0	0.046	1440.5	50
75	-1.780	-1.782	0.140	0.084	33.982	6.70	291	27.353	1027.7	70.9	0.064	1440.6	74
100	-1.804	-1.806	0.136	0.060	33.995	6.81	296	27.364	1027.8	69.6	0.082	1440.9	99
125	-1.817	-1.819	0.142	0.048	34.001	6.85	298	27.369	1028.0	68.9	0.099	1441.3	124
150	-1.800	-1.803	0.178	0.065	34.005	6.83	297	27.372	1028.1	68.5	0.116	1441.8	148
175	-1.765	-1.768	0.233	0.101	34.014	6.78	295	27.378	1028.2	67.8	0.133	1442.4	173
200	-1.741	-1.746	0.276	0.125	34.023	6.77	294	27.385	1028.3	67.0	0.150	1442.9	198
225	-1.737	-1.742	0.299	0.130	34.034	6.82	296	27.394	1028.5	66.0	0.167	1443.3	222
250	-1.625	-1.631	0.431	0.243	34.058	6.66	289	27.411	1028.6	64.4	0.183	1444.3	247
275	-1.370	-1.377	0.708	0.501	34.100	6.27	273	27.437	1028.8	61.9	0.199	1446.0	272
300	-0.993	-1.002	1.108	0.882	34.177	5.82	253	27.487	1028.9	57.5	0.214	1448.3	297
325	-0.620	-0.630	1.504	1.259	34.239	5.44	237	27.521	1029.1	54.5	0.228	1450.5	321
350	-0.187	-0.199	1.960	1.697	34.319	5.03	219	27.567	1029.2	50.6	0.241	1453.1	346
375	0.171	0.156	2.341	2.059	34.402	4.78	208	27.615	1029.4	46.4	0.253	1455.2	371
400	0.463	0.446	2.656	2.355	34.470	4.58	199	27.654	1029.5	43.1	0.264	1457.1	395
425	0.695	0.676	2.911	2.591	34.530	4.44	193	27.688	1029.7	40.2	0.275	1458.6	420
450	0.936	0.914	3.173	2.835	34.593	4.31	187	27.724	1029.8	37.2	0.284	1460.2	445
475	1.095	1.072	3.355	2.998	34.651	4.26	185	27.760	1030.0	34.1	0.293	1461.4	469
500	1.133	1.109	3.414	3.038	34.683	4.16	181	27.783	1030.1	32.0	0.301	1462.0	494
550	1.145	1.117	3.465	3.051	34.717	4.41	192	27.810	1030.4	29.6	0.317	1462.9	543
598	1.134	1.104	3.490	3.040	34.719	4.42	192	27.812	1030.6	29.5	0.331	1463.7	591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300
400
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600
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900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**011D**	2009/01/15	23:11	-73.4421	-106.7231	882	9	880	8	4.8	95	-1.9	978.3

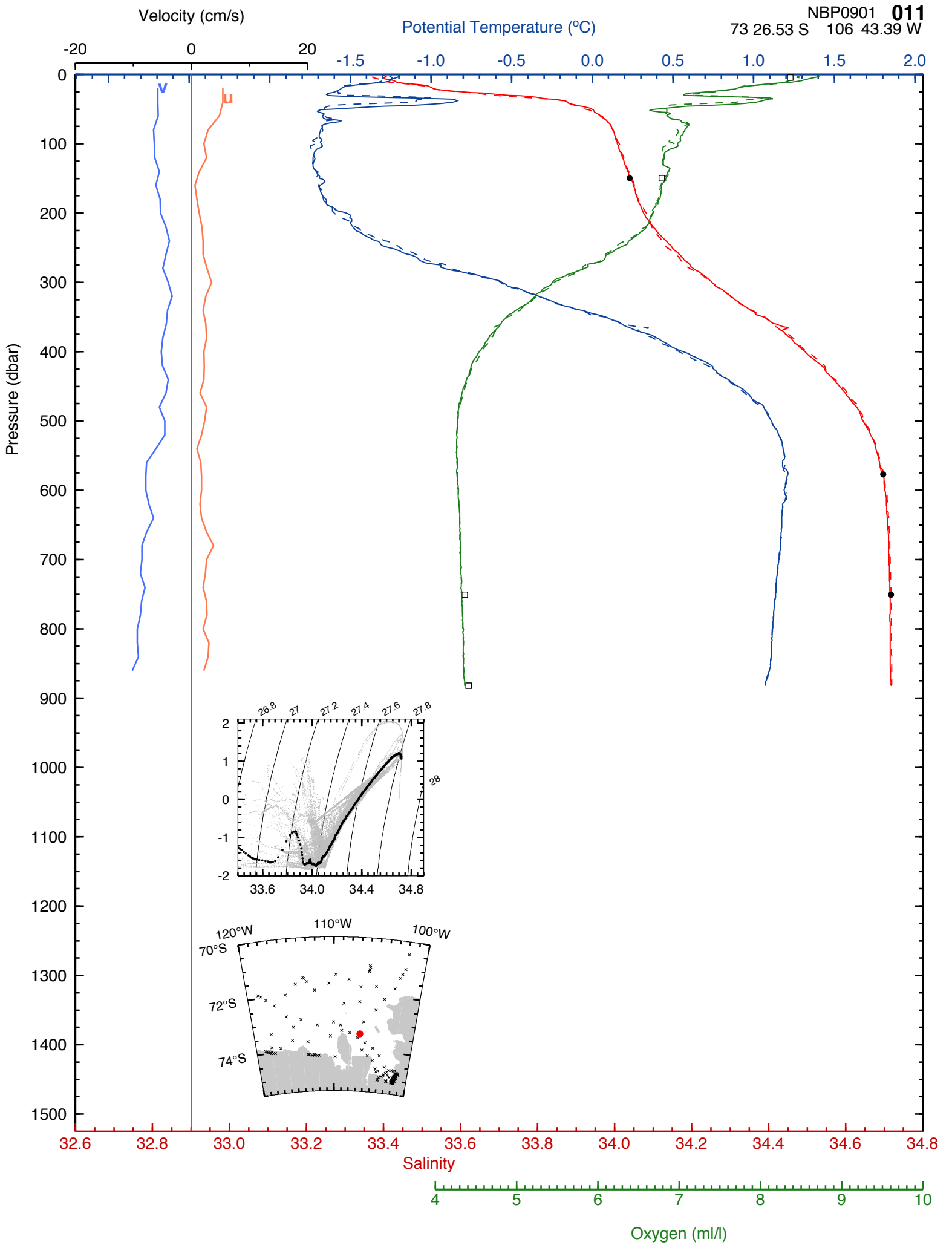
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
3	-1.203	-1.203	0.629	0.626	33.373	8.72	379	73.0	26.842	1026.9	119.8	0.004	1441.4			3
25	-1.596	-1.597	0.264	0.246	33.596	7.34	319	87.9	27.034	1027.2	101.4	0.028	1440.2	0.079	137	25
50	-1.623	-1.625	0.275	0.237	33.926	6.70	291	89.3	27.303	1027.5	75.7	0.050	1440.9	0.077	138	50
75	-1.673	-1.675	0.248	0.191	33.991	7.10	309	97.7	27.358	1027.7	70.4	0.068	1441.2	0.072	151	74
100	-1.678	-1.680	0.263	0.188	34.012	6.98	304	98.0	27.375	1027.9	68.6	0.085	1441.6	0.067	161	99
125	-1.725	-1.728	0.236	0.142	34.027	6.80	296	98.2	27.388	1028.0	67.2	0.102	1441.8	0.066	159	124
150	-1.685	-1.688	0.295	0.182	34.043	6.83	297	98.2	27.400	1028.1	65.9	0.119	1442.4	0.059	170	148
175	-1.668	-1.672	0.332	0.200	34.058	6.77	294	98.3	27.412	1028.3	64.7	0.135	1442.9	0.057	172	173
200	-1.522	-1.527	0.498	0.347	34.082	6.68	290	98.2	27.427	1028.4	63.2	0.151	1444.0	0.055	167	198
225	-1.461	-1.466	0.579	0.410	34.102	6.56	285	98.1	27.441	1028.5	61.8	0.167	1444.8	0.047	157	222
250	-1.251	-1.257	0.810	0.622	34.137	6.26	272	98.1	27.463	1028.7	59.7	0.182	1446.2	0.045	153	247
275	-0.933	-0.941	1.150	0.942	34.188	5.87	255	98.2	27.493	1028.8	57.1	0.197	1448.2	0.053	153	272
300	-0.551	-0.561	1.554	1.329	34.254	5.44	236	98.2	27.531	1029.0	53.7	0.210	1450.5	0.053	141	297
325	-0.265	-0.276	1.863	1.618	34.314	5.18	225	98.3	27.566	1029.1	50.6	0.223	1452.3	0.041	144	321
350	0.095	0.082	2.246	1.982	34.388	4.88	212	98.4	27.608	1029.3	47.0	0.236	1454.5	0.047	153	346
375	0.367	0.352	2.540	2.258	34.451	4.68	204	98.5	27.644	1029.4	43.9	0.247	1456.2	0.053	151	371
400	0.580	0.563	2.775	2.474	34.501	4.54	197	98.5	27.672	1029.6	41.5	0.258	1457.6	0.056	157	395
425	0.770	0.751	2.986	2.666	34.548	4.43	193	98.5	27.698	1029.7	39.3	0.268	1459.0	0.055	156	420
450	0.925	0.903	3.162	2.823	34.589	4.35	189	98.5	27.722	1029.8	37.4	0.277	1460.1	0.045	154	445
475	1.066	1.043	3.325	2.967	34.628	4.29	187	98.5	27.744	1030.0	35.5	0.287	1461.2	0.053	158	469
500	1.135	1.110	3.413	3.037	34.650	4.27	186	98.5	27.756	1030.1	34.5	0.295	1462.0	0.054	154	494
550	1.218	1.190	3.536	3.122	34.685	4.26	185	98.5	27.780	1030.4	32.6	0.312	1463.2	0.065	171	543
600	1.220	1.189	3.577	3.125	34.704	4.28	186	98.4	27.795	1030.6	31.3	0.328	1464.1	0.081	168	593
650	1.205	1.172	3.600	3.111	34.712	4.30	187	98.4	27.803	1030.9	30.7	0.343	1464.8	0.068	165	642
700	1.192	1.156	3.625	3.098	34.716	4.31	187	98.4	27.806	1031.1	30.5	0.359	1465.6	0.091	160	691
750	1.175	1.137	3.646	3.081	34.718	4.32	188	98.4	27.810	1031.3	30.3	0.374	1466.4	0.082	166	741
800	1.159	1.117	3.667	3.065	34.718	4.34	189	98.3	27.811	1031.6	30.2	0.389	1467.1	0.093	165	790
850	1.149	1.105	3.696	3.055	34.719	4.35	189	98.2	27.813	1031.8	30.2	0.404	1467.9	0.096	162	839
882	1.116	1.070	3.687	3.023	34.719	4.36	190	97.7	27.815	1031.9	30.1	0.414	1468.3			871

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	011B	2009/01/15	23:33	-73.4422	-106.7186	882	9	880	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
4	-1.186	-1.186	33.376	26.843	8.49	369		8.37	364	2094.3		22	4
29	-1.602	-1.603	33.695	27.115	7.07	307				2171.0		19	28
39	-1.087	-1.088	33.880	27.248	7.75	337				2190.6		16	39
150	-1.707	-1.710	34.043	27.400	6.79	295	34.039	6.79	295	2207.3		13	148
349	0.148	0.134	34.402	27.616	4.84	210				2244.7		10	345
577	1.233	1.204	34.697	27.788	4.27	185	34.697			2263.2		7	570
751	1.173	1.134	34.716	27.808	4.33	188	34.717	4.36	190	2265.0		4	741
882	1.117	1.070	34.719	27.815	4.36	189		4.41	192	2264.4		1	871

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	011U	2009/01/16	00:03	-73.4422	-106.7128	882	9	880	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.245	-1.245	0.586	0.586	33.400	8.51	370	26.865	1026.9	117.6	0.001	1441.2	1
25	-1.577	-1.578	0.284	0.265	33.604	7.44	323	27.040	1027.2	100.8	0.028	1440.3	25
50	-1.662	-1.663	0.238	0.200	33.942	6.84	298	27.317	1027.6	74.4	0.049	1440.7	50
75	-1.675	-1.676	0.246	0.190	33.991	7.03	306	27.358	1027.7	70.4	0.067	1441.1	74
100	-1.709	-1.711	0.231	0.156	34.008	6.93	301	27.372	1027.9	68.9	0.085	1441.4	99
125	-1.730	-1.732	0.231	0.136	34.025	6.79	295	27.386	1028.0	67.4	0.102	1441.7	124
150	-1.707	-1.710	0.274	0.161	34.042	6.79	295	27.400	1028.1	66.0	0.118	1442.3	148
175	-1.673	-1.677	0.327	0.195	34.057	6.76	294	27.411	1028.3	64.8	0.135	1442.9	173
200	-1.595	-1.600	0.425	0.274	34.076	6.67	290	27.424	1028.4	63.4	0.151	1443.7	198
225	-1.431	-1.437	0.609	0.440	34.108	6.53	284	27.445	1028.5	61.4	0.166	1444.9	222
250	-1.185	-1.192	0.876	0.688	34.150	6.21	270	27.471	1028.7	59.0	0.181	1446.5	247
275	-0.897	-0.905	1.186	0.979	34.196	5.85	254	27.498	1028.8	56.6	0.196	1448.4	272
300	-0.559	-0.569	1.546	1.321	34.253	5.46	237	27.530	1029.0	53.8	0.209	1450.4	297
325	-0.272	-0.283	1.856	1.611	34.313	5.20	226	27.565	1029.1	50.7	0.223	1452.2	321
350	0.098	0.084	2.249	1.985	34.390	4.88	212	27.609	1029.3	46.9	0.235	1454.5	346
375	0.341	0.325	2.514	2.231	34.445	4.72	205	27.641	1029.4	44.2	0.246	1456.1	371
400	0.555	0.538	2.749	2.448	34.495	4.57	199	27.668	1029.6	41.9	0.257	1457.5	395
425	0.765	0.746	2.981	2.661	34.545	4.44	193	27.696	1029.7	39.5	0.267	1459.0	420
450	0.909	0.888	3.146	2.808	34.584	4.37	190	27.718	1029.8	37.7	0.277	1460.1	445
475	1.044	1.021	3.302	2.944	34.621	4.31	187	27.739	1030.0	35.9	0.286	1461.1	469
500	1.127	1.102	3.405	3.028	34.645	4.28	186	27.753	1030.1	34.8	0.295	1461.9	494
550	1.220	1.192	3.538	3.124	34.684	4.26	185	27.778	1030.4	32.7	0.311	1463.2	543
600	1.225	1.194	3.582	3.130	34.702	4.28	186	27.793	1030.6	31.5	0.327	1464.1	593
650	1.207	1.174	3.602	3.113	34.709	4.30	187	27.800	1030.9	30.9	0.343	1464.8	642
700	1.191	1.155	3.624	3.097	34.712	4.31	187	27.804	1031.1	30.7	0.359	1465.6	691
750	1.176	1.137	3.647	3.082	34.716	4.32	188	27.808	1031.3	30.5	0.374	1466.4	741
800	1.157	1.115	3.666	3.063	34.715	4.34	189	27.809	1031.6	30.5	0.389	1467.1	790
850	1.148	1.104	3.694	3.054	34.716	4.35	189	27.810	1031.8	30.5	0.404	1467.9	839
882	1.116	1.070	3.687	3.023	34.719	4.36	190	27.815	1031.9	30.1	0.414	1468.3	871


NBP0901 011
73 26.53 S 106 43.39 W
Velocity (cm/s)
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0
20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**012D**	2009/01/16	06:59	-74.0204	-106.3349	1186	9	1179	5	0.8	354	-1.2	979.5

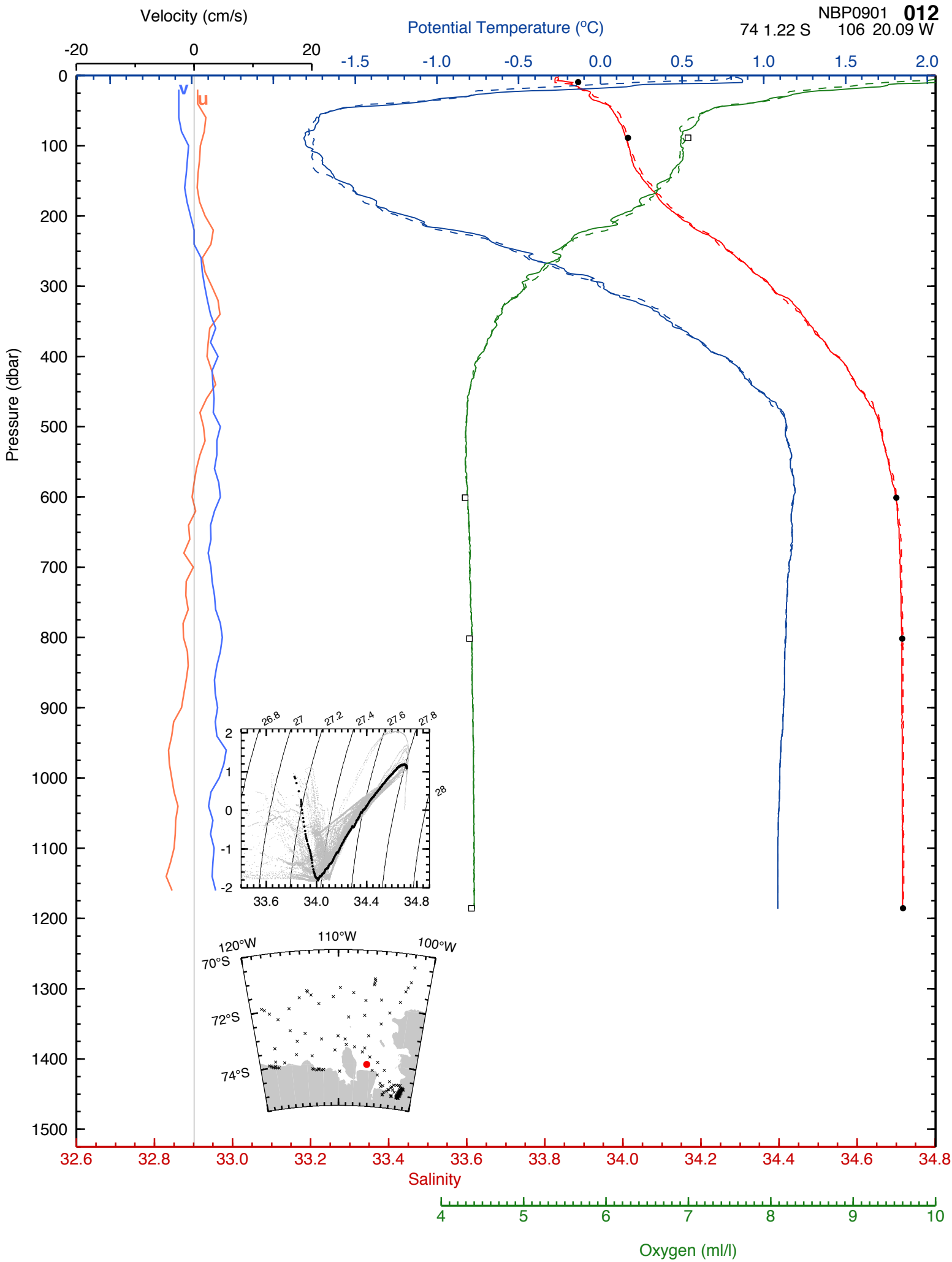
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.825	0.824	2.681	2.680	33.830	10.12	440	56.1	27.116	1027.1	93.8	0.002	1451.4			2
25	-0.666	-0.666	1.213	1.194	33.915	8.36	363	68.4	27.261	1027.4	79.9	0.022	1445.0	0.027	167	25
50	-1.635	-1.636	0.266	0.229	33.984	7.24	315	90.9	27.351	1027.6	71.3	0.041	1440.9	0.030	155	50
75	-1.746	-1.747	0.176	0.120	34.005	7.04	306	97.6	27.371	1027.7	69.2	0.059	1440.8	0.029	141	74
100	-1.797	-1.799	0.144	0.069	34.013	6.91	300	98.2	27.379	1027.9	68.2	0.076	1441.0	0.015	130	99
125	-1.699	-1.701	0.263	0.168	34.034	6.89	300	98.2	27.393	1028.0	66.7	0.093	1441.9	0.014	143	124
150	-1.589	-1.593	0.392	0.279	34.062	6.71	291	98.3	27.413	1028.1	64.8	0.109	1442.9	0.016	156	148
175	-1.399	-1.403	0.604	0.472	34.103	6.43	279	98.4	27.441	1028.3	62.1	0.125	1444.2	0.016	150	173
200	-1.176	-1.181	0.848	0.697	34.147	6.14	267	98.4	27.469	1028.4	59.5	0.140	1445.8	0.019	112	198
225	-0.769	-0.776	1.278	1.108	34.219	5.65	246	98.4	27.511	1028.6	55.6	0.155	1448.2	0.033	90	222
250	-0.474	-0.483	1.595	1.406	34.275	5.38	234	98.4	27.544	1028.7	52.7	0.168	1450.0	0.025	75	247
275	-0.216	-0.226	1.875	1.668	34.330	5.22	227	98.3	27.576	1028.9	49.8	0.181	1451.7	0.022	52	272
300	0.032	0.021	2.145	1.919	34.379	5.00	217	98.3	27.604	1029.0	47.3	0.193	1453.3	0.033	58	297
325	0.253	0.240	2.387	2.142	34.425	4.79	208	98.3	27.629	1029.2	45.2	0.205	1454.8	0.047	60	321
350	0.438	0.423	2.593	2.330	34.469	4.66	202	98.4	27.654	1029.3	43.0	0.216	1456.1	0.050	51	346
375	0.603	0.587	2.780	2.498	34.510	4.57	198	98.3	27.678	1029.5	41.0	0.226	1457.3	0.041	38	371
400	0.775	0.757	2.973	2.672	34.551	4.45	194	98.4	27.701	1029.6	39.1	0.236	1458.6	0.045	31	395
425	0.892	0.872	3.110	2.790	34.583	4.40	191	98.4	27.718	1029.7	37.6	0.246	1459.6	0.043	44	420
450	1.006	0.985	3.245	2.906	34.615	4.34	189	98.4	27.737	1029.9	36.0	0.255	1460.5	0.047	45	445
475	1.123	1.100	3.383	3.025	34.647	4.32	188	98.4	27.755	1030.0	34.6	0.264	1461.5	0.037	25	469
500	1.160	1.136	3.440	3.063	34.660	4.30	187	98.4	27.763	1030.1	33.9	0.272	1462.1	0.044	19	494
550	1.190	1.162	3.508	3.094	34.682	4.29	186	98.4	27.779	1030.4	32.6	0.289	1463.1	0.039	13	543
600	1.212	1.181	3.569	3.117	34.701	4.32	188	98.4	27.793	1030.6	31.5	0.305	1464.0	0.044	226	593
650	1.204	1.170	3.599	3.109	34.711	4.34	189	98.4	27.801	1030.9	30.8	0.321	1464.8	0.029	343	642
700	1.190	1.154	3.623	3.096	34.714	4.35	189	98.3	27.805	1031.1	30.6	0.336	1465.6	0.029	344	691
750	1.178	1.139	3.649	3.084	34.715	4.36	189	98.3	27.807	1031.3	30.5	0.351	1466.4	0.038	338	741
800	1.177	1.135	3.685	3.083	34.717	4.37	190	98.2	27.809	1031.6	30.5	0.366	1467.2	0.050	338	790
850	1.171	1.126	3.717	3.077	34.717	4.37	190	98.3	27.810	1031.8	30.6	0.382	1468.0	0.040	346	839
900	1.168	1.120	3.752	3.074	34.718	4.39	191	98.2	27.811	1032.0	30.6	0.397	1468.8	0.042	334	888
950	1.155	1.105	3.777	3.061	34.719	4.39	191	98.1	27.812	1032.3	30.6	0.412	1469.6	0.053	316	938
1000	1.151	1.098	3.811	3.058	34.719	4.39	191	98.1	27.813	1032.5	30.7	0.428	1470.4	0.063	320	987
1186	1.150	1.085	3.949	3.056	34.717	4.40	191	98.0	27.812	1033.3	31.2	0.485	1473.5			1170

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	012B	2009/01/16	07:26	-74.0205	-106.3367	1186	9	1179	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	0.063	0.063	33.880	27.199	9.30	404	33.886					21	10
89	-1.754	-1.756	34.010	27.375	6.95	302	34.013	7.00	304			13	88
601	1.205	1.175	34.702	27.794	4.32	188	34.701	4.29	186			8	594
801	1.171	1.129	34.715	27.808	4.37	190	34.716	4.34	189			4	791
1186	1.150	1.085	34.718	27.813	4.40	191	34.718	4.37	190			1	1170

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	012U	2009/01/16	07:57	-74.0207	-106.3393	1186	9	1179	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.793	0.793	2.649	2.648	33.836	10.28	447	27.123	1027.1	93.1	0.001	1451.2	1
25	-0.777	-0.778	1.102	1.083	33.917	8.19	356	27.267	1027.4	79.4	0.022	1444.5	25
50	-1.637	-1.638	0.264	0.226	33.974	7.23	315	27.342	1027.6	72.0	0.041	1440.9	50
75	-1.783	-1.785	0.138	0.082	33.999	6.90	300	27.367	1027.7	69.5	0.058	1440.6	74
100	-1.755	-1.757	0.186	0.111	34.014	6.92	301	27.378	1027.9	68.3	0.076	1441.2	99
125	-1.759	-1.762	0.201	0.107	34.026	6.89	300	27.388	1028.0	67.2	0.093	1441.6	124
150	-1.621	-1.624	0.360	0.247	34.055	6.76	294	27.408	1028.1	65.3	0.109	1442.7	148
175	-1.459	-1.463	0.543	0.411	34.092	6.53	284	27.433	1028.3	62.8	0.125	1443.9	173
200	-1.232	-1.237	0.792	0.642	34.142	6.24	271	27.466	1028.4	59.7	0.140	1445.5	198
225	-0.867	-0.874	1.179	1.010	34.209	5.82	253	27.507	1028.6	56.0	0.155	1447.7	222
250	-0.523	-0.531	1.546	1.357	34.270	5.45	237	27.542	1028.7	52.8	0.168	1449.8	247
275	-0.248	-0.258	1.842	1.635	34.327	5.26	229	27.576	1028.9	49.8	0.181	1451.6	272
300	0.001	-0.010	2.114	1.888	34.379	5.03	219	27.605	1029.0	47.2	0.193	1453.2	297
325	0.305	0.292	2.440	2.195	34.436	4.77	207	27.635	1029.2	44.6	0.205	1455.1	321
350	0.456	0.442	2.612	2.348	34.473	4.65	202	27.656	1029.3	42.8	0.216	1456.2	346
375	0.605	0.589	2.782	2.500	34.510	4.58	199	27.677	1029.5	41.0	0.226	1457.4	371
400	0.765	0.747	2.962	2.661	34.548	4.48	195	27.699	1029.6	39.2	0.236	1458.5	395
425	0.899	0.879	3.117	2.797	34.582	4.39	191	27.718	1029.7	37.6	0.246	1459.6	420
450	0.995	0.973	3.233	2.895	34.611	4.34	189	27.734	1029.9	36.3	0.255	1460.5	445
475	1.113	1.090	3.372	3.015	34.644	4.31	187	27.753	1030.0	34.7	0.264	1461.5	469
500	1.164	1.140	3.444	3.067	34.658	4.30	187	27.762	1030.1	34.1	0.273	1462.1	494
550	1.192	1.165	3.510	3.096	34.680	4.29	187	27.777	1030.4	32.8	0.289	1463.1	543
600	1.212	1.181	3.569	3.117	34.699	4.32	188	27.791	1030.6	31.6	0.305	1464.0	593
650	1.207	1.174	3.602	3.112	34.708	4.34	189	27.799	1030.9	31.1	0.321	1464.8	642
700	1.190	1.154	3.623	3.096	34.711	4.34	189	27.802	1031.1	30.9	0.337	1465.6	691
750	1.179	1.141	3.650	3.085	34.712	4.36	189	27.805	1031.3	30.8	0.352	1466.4	741
800	1.175	1.133	3.683	3.081	34.715	4.37	190	27.807	1031.6	30.7	0.367	1467.2	790
850	1.170	1.126	3.716	3.076	34.714	4.38	190	27.807	1031.8	30.8	0.383	1468.0	839
900	1.166	1.119	3.750	3.072	34.715	4.38	190	27.808	1032.0	30.8	0.398	1468.8	888
950	1.156	1.105	3.777	3.062	34.715	4.39	191	27.810	1032.3	30.8	0.414	1469.6	938
1000	1.151	1.098	3.810	3.057	34.716	4.39	191	27.810	1032.5	30.9	0.429	1470.4	987
1186	1.150	1.085	3.949	3.056	34.717	4.40	191	27.812	1033.3	31.2	0.487	1473.5	1170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20
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2.0
NBP0901 012
74 1.22 S
106 20.09 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
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33.6
33.8
34.0
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34.4
34.6
34.8
Salinity
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**013D**	2009/01/16	12:09	-74.3602	-104.8908	1260	8	1251	9	5.5	28	-0.9	979.9

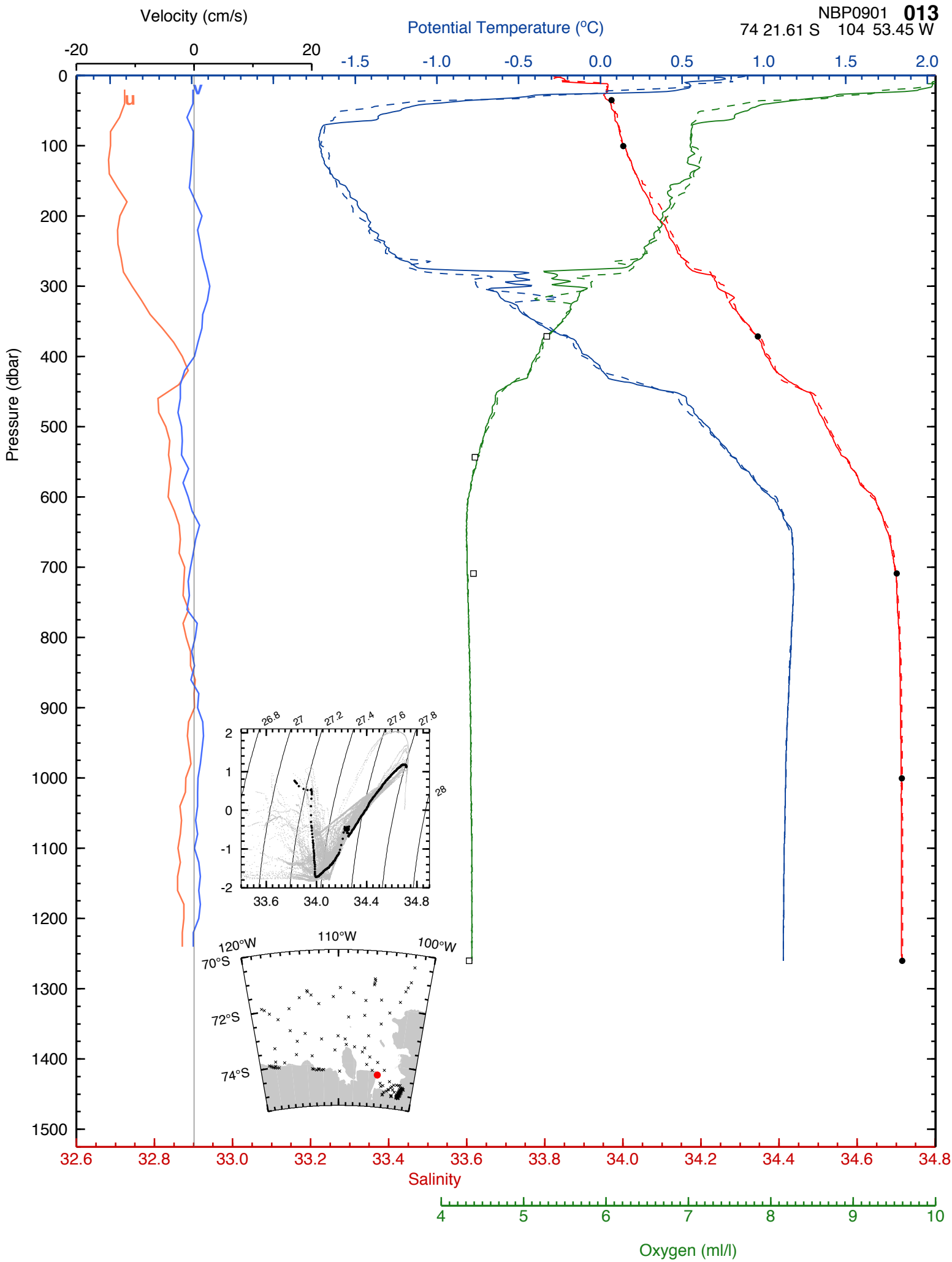
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.703	0.703	2.560	2.559	33.842	10.33	449	53.0	27.133	1027.1	92.2	0.002	1450.8			2
25	0.103	0.102	1.984	1.965	33.956	9.16	398	65.5	27.258	1027.4	80.3	0.021	1448.6	0.118	269	25
50	-1.230	-1.231	0.672	0.634	33.979	7.71	335	82.6	27.334	1027.6	72.8	0.040	1442.8	0.123	267	50
75	-1.704	-1.705	0.217	0.161	33.991	7.04	306	95.6	27.358	1027.7	70.4	0.058	1441.0	0.138	268	74
100	-1.717	-1.719	0.224	0.148	34.002	7.02	305	97.0	27.368	1027.8	69.3	0.076	1441.4	0.142	269	99
125	-1.686	-1.689	0.274	0.180	34.020	6.99	304	97.6	27.381	1028.0	67.9	0.093	1441.9	0.145	268	124
150	-1.597	-1.600	0.384	0.271	34.049	6.93	301	97.9	27.402	1028.1	65.8	0.110	1442.8	0.138	267	148
175	-1.515	-1.519	0.487	0.355	34.077	6.80	296	98.2	27.423	1028.3	63.7	0.126	1443.7	0.119	270	173
200	-1.424	-1.429	0.598	0.447	34.109	6.69	291	98.2	27.446	1028.4	61.5	0.141	1444.5	0.126	275	198
225	-1.358	-1.363	0.684	0.515	34.125	6.58	286	98.2	27.457	1028.5	60.4	0.157	1445.3	0.130	273	222
250	-1.287	-1.294	0.774	0.586	34.145	6.48	282	98.0	27.471	1028.7	58.9	0.171	1446.0	0.128	276	247
275	-1.079	-1.087	1.003	0.796	34.181	6.05	263	98.1	27.493	1028.8	57.0	0.186	1447.5	0.123	279	272
300	-0.413	-0.423	1.692	1.466	34.258	5.53	240	97.8	27.528	1029.0	54.1	0.200	1451.1	0.110	284	297
325	-0.518	-0.529	1.608	1.363	34.284	5.58	243	98.3	27.554	1029.1	51.5	0.213	1451.1	0.091	284	321
350	-0.383	-0.395	1.764	1.500	34.311	5.47	238	98.3	27.570	1029.2	50.1	0.226	1452.2	0.070	282	346
375	-0.157	-0.171	2.011	1.728	34.353	5.23	227	98.3	27.593	1029.4	48.1	0.238	1453.7	0.045	282	371
400	-0.056	-0.071	2.131	1.830	34.375	5.15	224	98.3	27.605	1029.5	47.1	0.250	1454.6	0.024	275	395
425	0.046	0.029	2.254	1.934	34.396	5.06	220	98.3	27.617	1029.6	46.1	0.262	1455.5	0.019	212	420
450	0.452	0.432	2.683	2.344	34.476	4.68	204	98.4	27.659	1029.8	42.6	0.273	1457.8	0.042	233	445
475	0.590	0.569	2.842	2.484	34.510	4.62	201	98.3	27.678	1029.9	41.0	0.283	1458.9	0.066	248	469
500	0.680	0.658	2.952	2.575	34.529	4.54	197	98.3	27.689	1030.0	40.2	0.293	1459.8	0.056	246	494
550	0.865	0.839	3.177	2.763	34.577	4.43	192	98.3	27.716	1030.3	38.0	0.313	1461.5	0.047	246	543
600	1.071	1.041	3.424	2.972	34.637	4.33	188	98.4	27.751	1030.6	35.2	0.331	1463.3	0.045	253	593
650	1.203	1.170	3.597	3.107	34.683	4.31	187	98.4	27.779	1030.8	32.9	0.348	1464.8	0.027	289	642
700	1.215	1.179	3.647	3.120	34.697	4.32	188	98.4	27.790	1031.1	32.0	0.364	1465.7	0.021	257	691
750	1.217	1.178	3.688	3.123	34.706	4.33	188	98.4	27.797	1031.3	31.6	0.380	1466.5	0.021	246	741
800	1.210	1.168	3.718	3.115	34.711	4.34	189	98.3	27.801	1031.6	31.3	0.396	1467.3	0.017	282	790
850	1.202	1.157	3.748	3.108	34.713	4.35	189	98.3	27.804	1031.8	31.2	0.412	1468.1	0.006	278	839
900	1.194	1.146	3.777	3.100	34.714	4.35	189	98.3	27.806	1032.0	31.1	0.427	1468.9	0.007	4	888
950	1.189	1.139	3.811	3.095	34.715	4.36	189	98.3	27.807	1032.3	31.1	0.443	1469.7	0.019	326	938
1000	1.187	1.133	3.846	3.093	34.716	4.36	189	98.3	27.808	1032.5	31.2	0.458	1470.5	0.013	322	987
1200	1.187	1.120	3.996	3.093	34.717	4.37	190	98.2	27.810	1033.4	31.6	0.521	1473.9	0.020	301	1184
1260	1.189	1.119	4.044	3.095	34.715	4.37	190	98.2	27.809	1033.7	31.9	0.540	1474.9			1243

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	013B	2009/01/16	12:39	-74.3610	-104.8889	1260	8	1251	9

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	0.776	0.776	33.855	27.139	10.13	440		10.11	440	2043.3		19	10
35	-1.000	-1.001	33.959	27.310	7.92	344	33.971			2167.0		17,16	35
101	-1.704	-1.706	34.003	27.368	7.03	306	34.001			2197.7		15,14	100
254	-1.302	-1.309	34.143	27.470	6.48	282				2217.3		12	251
371	-0.184	-0.197	34.349	27.590	5.25	228	34.346	5.28	230	2238.4		10	367
543	0.830	0.804	34.566	27.709	4.44	193		4.41	192	2257.2		8	537
709	1.219	1.182	34.700	27.792	4.32	187	34.702	4.39	191	2265.1		6	700
1000	1.188	1.134	34.714	27.807	4.36	189	34.715					4	987
1260	1.190	1.119	34.715	27.809	4.37	190	34.715	4.34	189	2264.4		1	1243

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	013U	2009/01/16	13:17	-74.3614	-104.8882	1260	8	1251	9

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.886	0.886	2.742	2.741	33.823	10.41	453	27.106	1027.1	94.7	0.001	1451.6	1
25	-0.013	-0.014	1.868	1.849	33.958	9.25	402	27.266	1027.4	79.6	0.022	1448.1	25
50	-1.566	-1.567	0.335	0.298	33.975	7.21	314	27.342	1027.6	72.1	0.040	1441.2	50
75	-1.686	-1.687	0.235	0.179	33.990	7.04	306	27.357	1027.7	70.5	0.058	1441.1	74
100	-1.704	-1.706	0.237	0.161	34.002	7.02	305	27.367	1027.8	69.4	0.076	1441.4	99
125	-1.651	-1.654	0.309	0.215	34.023	7.13	310	27.382	1028.0	67.8	0.093	1442.1	124
150	-1.616	-1.619	0.364	0.251	34.041	7.04	306	27.396	1028.1	66.3	0.110	1442.7	148
175	-1.548	-1.552	0.452	0.320	34.066	6.86	298	27.414	1028.3	64.5	0.126	1443.5	173
200	-1.482	-1.487	0.538	0.388	34.084	6.75	294	27.428	1028.4	63.1	0.142	1444.2	198
225	-1.405	-1.411	0.636	0.466	34.117	6.65	289	27.452	1028.5	60.8	0.157	1445.0	222
250	-1.309	-1.315	0.752	0.564	34.139	6.50	282	27.467	1028.7	59.3	0.172	1445.9	247
275	-1.146	-1.153	0.936	0.729	34.171	6.32	274	27.487	1028.8	57.4	0.187	1447.2	272
300	-0.745	-0.755	1.359	1.133	34.241	5.82	253	27.529	1029.0	53.8	0.201	1449.5	297
325	-0.551	-0.561	1.575	1.330	34.275	5.58	242	27.548	1029.1	52.0	0.214	1450.9	321
350	-0.387	-0.399	1.759	1.496	34.310	5.48	238	27.569	1029.2	50.2	0.227	1452.1	346
375	-0.189	-0.203	1.978	1.696	34.347	5.26	229	27.589	1029.4	48.4	0.239	1453.5	371
400	-0.091	-0.106	2.096	1.795	34.368	5.20	226	27.602	1029.5	47.4	0.251	1454.4	395
425	0.069	0.053	2.277	1.957	34.400	5.05	220	27.619	1029.6	45.9	0.263	1455.6	420
450	0.432	0.413	2.663	2.324	34.472	4.73	206	27.657	1029.8	42.8	0.274	1457.8	445
475	0.545	0.524	2.796	2.439	34.499	4.66	202	27.673	1029.9	41.5	0.284	1458.7	469
500	0.651	0.629	2.923	2.546	34.522	4.57	199	27.684	1030.0	40.6	0.295	1459.6	494
550	0.880	0.854	3.192	2.778	34.580	4.43	192	27.717	1030.3	37.9	0.314	1461.6	543
600	1.104	1.075	3.458	3.006	34.645	4.33	188	27.755	1030.6	34.8	0.333	1463.5	593
650	1.196	1.163	3.589	3.099	34.678	4.31	187	27.776	1030.8	33.2	0.350	1464.8	642
700	1.216	1.180	3.648	3.121	34.696	4.31	187	27.789	1031.1	32.1	0.366	1465.7	691
750	1.217	1.178	3.687	3.122	34.703	4.33	188	27.795	1031.3	31.8	0.382	1466.5	741
800	1.208	1.166	3.716	3.114	34.708	4.34	189	27.799	1031.5	31.5	0.398	1467.3	790
850	1.200	1.155	3.745	3.105	34.710	4.35	189	27.802	1031.8	31.4	0.414	1468.1	839
900	1.195	1.147	3.778	3.100	34.711	4.36	189	27.803	1032.0	31.4	0.429	1468.9	888
950	1.187	1.137	3.808	3.093	34.712	4.36	190	27.805	1032.3	31.3	0.445	1469.7	938
1000	1.188	1.134	3.847	3.094	34.713	4.36	189	27.806	1032.5	31.4	0.461	1470.5	987
1200	1.187	1.120	3.996	3.093	34.714	4.37	190	27.807	1033.4	31.8	0.524	1473.9	1184
1260	1.189	1.119	4.044	3.095	34.715	4.37	190	27.809	1033.7	31.9	0.543	1474.9	1243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Potential Temperature (°C)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**014D**	2009/01/16	19:20	-74.7185	-104.0247	1083	9	1078	6	4.7	71	-1.3	981.0

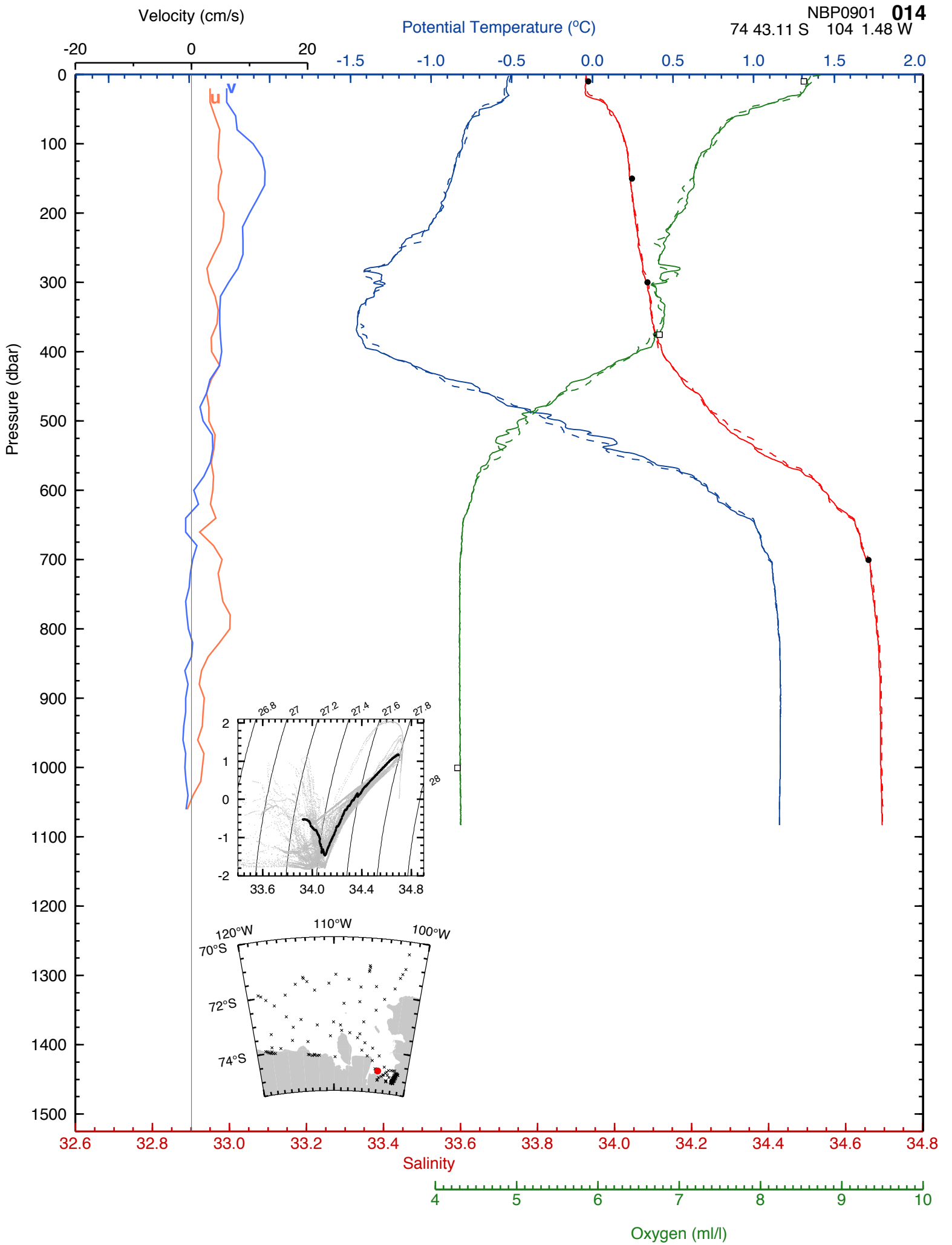
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.517	-0.517	1.345	1.344	33.926	8.62	375	81.6	27.264	1027.3	79.8	0.002	1445.3			2
25	-0.531	-0.532	1.349	1.330	33.929	8.53	371	82.3	27.267	1027.4	79.4	0.020	1445.7	0.069	28	25
50	-0.692	-0.693	1.210	1.172	33.987	7.87	342	85.0	27.320	1027.6	74.3	0.039	1445.4	0.077	28	50
75	-0.779	-0.781	1.143	1.087	34.013	7.56	329	89.1	27.345	1027.7	71.8	0.057	1445.4	0.091	31	74
100	-0.802	-0.805	1.139	1.064	34.026	7.40	322	89.7	27.357	1027.8	70.6	0.075	1445.7	0.115	24	99
125	-0.842	-0.845	1.119	1.025	34.037	7.23	314	90.9	27.367	1028.0	69.5	0.093	1446.0	0.131	21	124
150	-0.869	-0.873	1.112	0.999	34.041	7.18	312	91.7	27.371	1028.1	69.1	0.110	1446.2	0.136	22	148
175	-0.906	-0.911	1.094	0.962	34.045	7.10	309	92.5	27.376	1028.2	68.4	0.127	1446.5	0.126	22	173
200	-0.954	-0.959	1.065	0.915	34.054	7.01	305	92.4	27.385	1028.3	67.5	0.144	1446.7	0.116	28	198
225	-1.021	-1.027	1.017	0.847	34.061	6.84	297	93.1	27.393	1028.5	66.6	0.161	1446.8	0.104	32	222
250	-1.176	-1.183	0.881	0.693	34.068	6.82	297	95.1	27.404	1028.6	65.3	0.177	1446.5	0.100	27	247
275	-1.267	-1.274	0.810	0.603	34.075	6.81	296	95.7	27.413	1028.7	64.3	0.194	1446.5	0.089	20	272
300	-1.346	-1.353	0.750	0.524	34.083	6.84	297	95.7	27.423	1028.9	63.2	0.209	1446.5	0.073	25	297
325	-1.394	-1.402	0.721	0.476	34.094	6.77	294	96.6	27.433	1029.0	62.1	0.225	1446.7	0.065	40	321
350	-1.447	-1.456	0.687	0.423	34.098	6.81	296	97.4	27.438	1029.1	61.4	0.241	1446.8	0.067	43	346
375	-1.444	-1.453	0.710	0.427	34.105	6.75	293	97.6	27.444	1029.2	60.7	0.256	1447.3	0.063	38	371
400	-1.310	-1.321	0.863	0.562	34.121	6.50	282	97.6	27.453	1029.4	59.9	0.271	1448.3	0.062	34	395
425	-1.042	-1.055	1.152	0.832	34.155	6.09	265	97.5	27.471	1029.5	58.5	0.286	1450.1	0.069	46	420
450	-0.707	-0.721	1.509	1.170	34.199	5.62	244	97.5	27.494	1029.6	56.7	0.300	1452.1	0.045	46	445
475	-0.531	-0.547	1.705	1.347	34.230	5.43	236	97.5	27.511	1029.8	55.2	0.314	1453.4	0.036	54	469
500	-0.178	-0.197	2.080	1.703	34.287	5.02	218	97.5	27.541	1029.9	52.9	0.328	1455.5	0.035	58	494
550	0.316	0.293	2.619	2.205	34.415	4.67	203	97.9	27.618	1030.2	46.3	0.353	1458.8	0.053	46	543
600	0.744	0.716	3.092	2.640	34.539	4.47	194	98.2	27.693	1030.5	40.0	0.374	1461.7	0.039	76	593
650	1.041	1.009	3.432	2.942	34.628	4.34	189	98.3	27.746	1030.8	35.7	0.393	1464.0	0.040	106	642
700	1.137	1.101	3.566	3.039	34.660	4.30	187	98.3	27.766	1031.1	34.2	0.410	1465.3	0.047	83	691
750	1.173	1.134	3.641	3.076	34.674	4.30	187	98.3	27.774	1031.3	33.6	0.427	1466.3	0.050	95	741
800	1.193	1.151	3.700	3.097	34.683	4.30	187	98.3	27.780	1031.5	33.2	0.444	1467.2	0.067	96	790
850	1.209	1.164	3.753	3.113	34.690	4.30	187	98.3	27.785	1031.8	32.9	0.460	1468.1	0.030	90	839
900	1.214	1.166	3.796	3.118	34.693	4.30	187	98.2	27.787	1032.0	32.9	0.477	1469.0	0.018	115	888
950	1.216	1.165	3.836	3.121	34.693	4.30	187	98.2	27.788	1032.2	33.0	0.493	1469.8	0.023	124	938
1000	1.219	1.165	3.876	3.123	34.694	4.31	187	98.2	27.788	1032.5	33.1	0.510	1470.7	0.023	117	987
1083	1.219	1.160	3.939	3.124	34.695	4.31	187	98.3	27.790	1032.8	33.2	0.537	1472.0			1069

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	014B	2009/01/16	19:47	-74.7188	-104.0249	1000	9	1078	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.509	-0.509	33.926	27.264	8.63	375	33.931	8.53	371			19	10
150	-0.877	-0.881	34.041	27.372	7.17	312	34.045					16	149
300	-1.282	-1.290	34.086	27.423	6.68	290	34.085					13	297
376	-1.425	-1.435	34.107	27.444	6.70	291	34.108	6.76	294			11,10	371
701	1.144	1.108	34.661	27.766	4.31	187	34.659					7	692
1000	1.218	1.164	34.692	27.787	4.31	187		4.27	186			4	987

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	014U	2009/01/16	20:18	-74.7193	-104.0251	1000	9	1078	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.509	-0.509	1.352	1.352	33.926	8.74	380	27.263	1027.3	79.8	0.001	1445.4	1
25	-0.546	-0.546	1.334	1.315	33.924	8.49	369	27.263	1027.4	79.8	0.020	1445.6	25
50	-0.686	-0.688	1.216	1.178	33.983	7.88	343	27.317	1027.6	74.6	0.039	1445.4	50
75	-0.770	-0.772	1.152	1.096	34.014	7.51	327	27.346	1027.7	71.7	0.057	1445.5	74
100	-0.790	-0.792	1.152	1.077	34.029	7.44	323	27.358	1027.8	70.5	0.075	1445.8	99
125	-0.835	-0.839	1.126	1.032	34.035	7.26	316	27.366	1028.0	69.7	0.093	1446.0	124
150	-0.878	-0.882	1.102	0.989	34.041	7.16	311	27.372	1028.1	69.0	0.110	1446.2	148
175	-0.905	-0.910	1.094	0.963	34.046	7.06	307	27.377	1028.2	68.4	0.127	1446.5	173
200	-0.950	-0.956	1.069	0.918	34.051	6.97	303	27.383	1028.3	67.7	0.144	1446.7	198
225	-1.034	-1.040	1.004	0.834	34.058	6.85	298	27.392	1028.5	66.7	0.161	1446.7	222
250	-1.188	-1.194	0.869	0.681	34.062	6.78	295	27.400	1028.6	65.7	0.178	1446.4	247
275	-1.290	-1.297	0.786	0.579	34.073	6.73	293	27.412	1028.7	64.4	0.194	1446.3	272
300	-1.295	-1.303	0.801	0.575	34.085	6.71	292	27.423	1028.9	63.3	0.210	1446.7	297
325	-1.393	-1.401	0.722	0.478	34.091	6.75	293	27.431	1029.0	62.3	0.226	1446.7	321
350	-1.445	-1.454	0.689	0.426	34.096	6.79	295	27.436	1029.1	61.6	0.241	1446.8	346
375	-1.412	-1.422	0.741	0.459	34.108	6.67	290	27.445	1029.2	60.7	0.256	1447.4	371
400	-1.294	-1.305	0.879	0.578	34.123	6.48	282	27.453	1029.4	59.9	0.271	1448.4	395
425	-1.074	-1.087	1.119	0.799	34.153	6.14	267	27.470	1029.5	58.5	0.286	1449.9	420
450	-0.841	-0.855	1.373	1.034	34.186	5.83	253	27.488	1029.6	57.0	0.301	1451.5	445
475	-0.489	-0.506	1.747	1.389	34.234	5.39	234	27.512	1029.8	55.1	0.315	1453.6	469
500	-0.273	-0.291	1.984	1.607	34.270	5.12	222	27.531	1029.9	53.6	0.328	1455.0	494
550	0.183	0.160	2.484	2.070	34.390	4.82	209	27.606	1030.2	47.3	0.354	1458.1	543
600	0.752	0.724	3.100	2.648	34.541	4.47	194	27.694	1030.5	40.0	0.375	1461.8	593
650	1.040	1.008	3.431	2.941	34.625	4.34	189	27.744	1030.8	35.9	0.394	1464.0	642
700	1.126	1.091	3.556	3.029	34.655	4.31	187	27.762	1031.0	34.5	0.412	1465.2	691
750	1.172	1.133	3.640	3.075	34.670	4.30	187	27.772	1031.3	33.8	0.429	1466.3	741
800	1.194	1.152	3.700	3.098	34.680	4.30	187	27.778	1031.5	33.4	0.445	1467.2	790
850	1.208	1.163	3.753	3.113	34.687	4.30	187	27.783	1031.8	33.2	0.462	1468.1	839
900	1.214	1.166	3.796	3.118	34.690	4.30	187	27.785	1032.0	33.1	0.479	1469.0	888
950	1.216	1.165	3.836	3.121	34.690	4.30	187	27.785	1032.2	33.2	0.495	1469.8	938
1000	1.219	1.164	3.876	3.123	34.692	4.31	187	27.787	1032.5	33.3	0.512	1470.7	987
1083	1.219	1.160	3.939	3.124	34.695	4.31	187	27.790	1032.8	33.2	0.539	1472.0	1069


NBP0901 014
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Velocity (cm/s)
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Potential Temperature (°C)
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-1.0
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1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
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-1
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33.6
34.0
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34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
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34.0
34.2
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34.6
34.8
Salinity
4
5
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**015D**	2009/01/17	02:25	-75.0668	-101.8463	943	10	941	12	6.9	117	-1.5	980.0

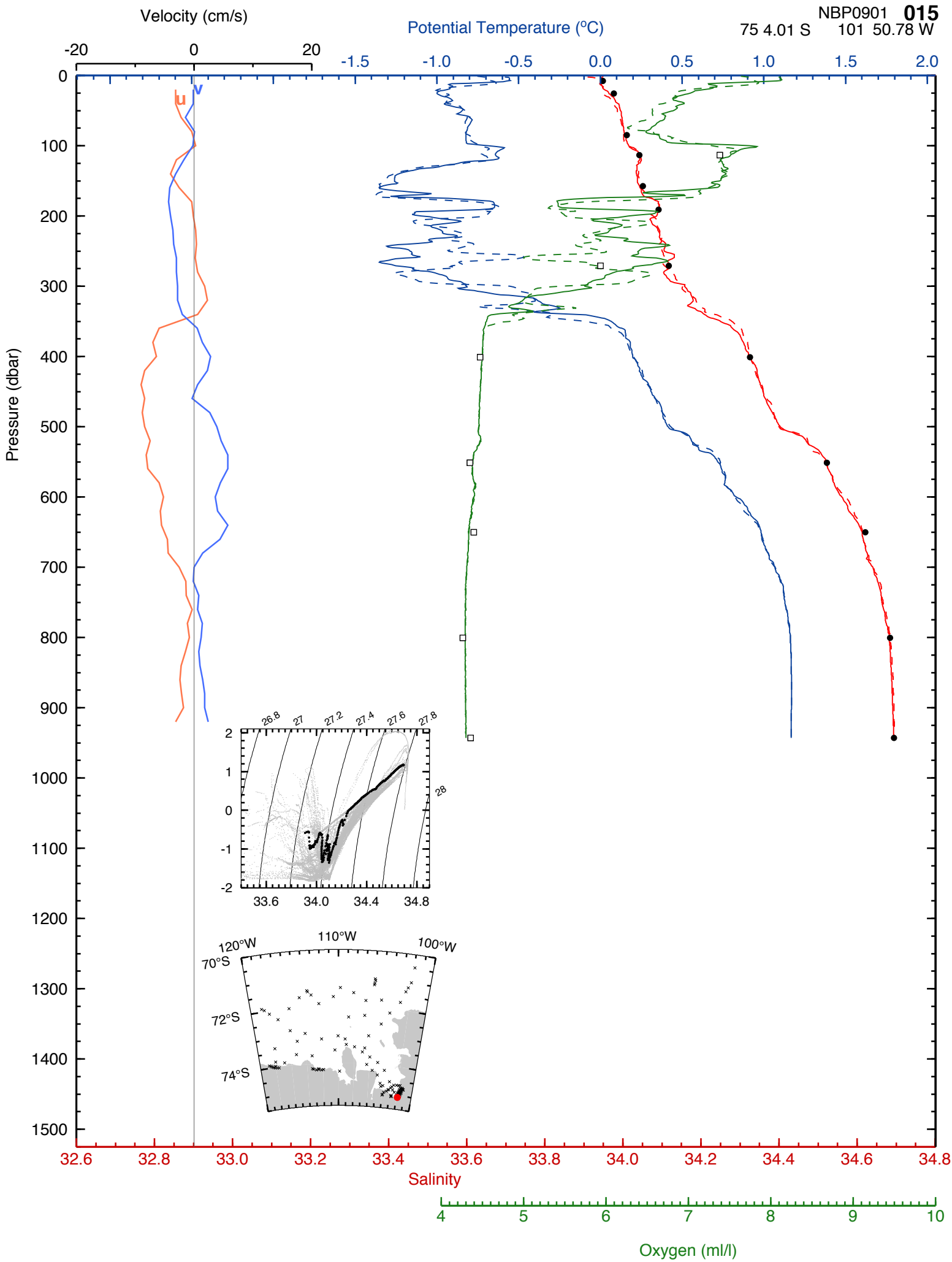
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.585	-0.585	1.276	1.275	33.909	8.09	352	83.8	27.253	1027.3	80.8	0.002	1445.0			2
25	-1.001	-1.001	0.880	0.861	33.947	7.02	305	90.3	27.300	1027.4	76.2	0.019	1443.5	0.031	268	25
50	-0.846	-0.847	1.056	1.019	33.986	6.81	296	92.5	27.325	1027.6	73.7	0.038	1444.7	0.029	253	50
75	-0.811	-0.813	1.111	1.054	34.000	6.55	285	92.4	27.336	1027.7	72.7	0.056	1445.2	0.011	270	74
100	-0.686	-0.689	1.255	1.179	34.014	7.74	337	90.7	27.342	1027.8	72.0	0.074	1446.3	0.004	132	99
125	-0.867	-0.870	1.095	1.001	34.044	7.41	322	86.0	27.374	1028.0	68.9	0.092	1445.9	0.037	239	124
150	-1.257	-1.260	0.724	0.611	34.041	7.38	321	92.9	27.386	1028.1	67.5	0.109	1444.4	0.050	224	148
175	-0.925	-0.930	1.076	0.944	34.073	5.79	251	95.2	27.399	1028.2	66.2	0.126	1446.4	0.045	194	173
200	-1.093	-1.098	0.927	0.777	34.077	6.27	273	95.5	27.409	1028.4	65.2	0.142	1446.1	0.040	182	198
225	-0.953	-0.960	1.087	0.917	34.096	5.96	259	95.7	27.419	1028.5	64.2	0.158	1447.2	0.036	175	222
250	-1.158	-1.164	0.901	0.713	34.101	6.39	278	96.2	27.431	1028.6	62.8	0.174	1446.6	0.033	174	247
275	-1.143	-1.150	0.936	0.729	34.114	6.33	275	96.6	27.440	1028.8	61.8	0.190	1447.1	0.031	172	272
300	-0.809	-0.818	1.291	1.065	34.152	5.74	250	95.5	27.459	1028.9	60.3	0.205	1449.1	0.033	151	297
325	-0.340	-0.351	1.780	1.536	34.190	4.91	213	95.9	27.470	1029.0	59.6	0.220	1451.8	0.035	142	321
350	0.080	0.067	2.225	1.961	34.280	4.55	198	95.3	27.521	1029.2	55.2	0.234	1454.2	0.032	196	346
375	0.177	0.162	2.342	2.060	34.312	4.51	196	95.2	27.542	1029.3	53.3	0.248	1455.1	0.065	278	371
400	0.212	0.196	2.397	2.096	34.324	4.50	196	95.4	27.550	1029.4	52.6	0.261	1455.7	0.070	291	395
425	0.265	0.248	2.470	2.150	34.341	4.49	195	95.3	27.561	1029.6	51.6	0.274	1456.4	0.087	285	420
450	0.328	0.310	2.553	2.214	34.359	4.47	194	95.1	27.572	1029.7	50.6	0.287	1457.1	0.089	272	445
475	0.395	0.375	2.640	2.282	34.385	4.46	194	95.4	27.589	1029.8	49.1	0.299	1457.9	0.088	277	469
500	0.435	0.413	2.699	2.323	34.400	4.46	194	95.5	27.599	1030.0	48.3	0.312	1458.5	0.093	293	494
550	0.742	0.717	3.051	2.637	34.517	4.39	191	96.3	27.676	1030.3	41.6	0.334	1460.9	0.099	305	543
600	0.859	0.831	3.209	2.757	34.568	4.39	191	97.9	27.709	1030.5	38.8	0.354	1462.3	0.067	306	593
650	1.015	0.983	3.404	2.915	34.614	4.33	188	97.8	27.736	1030.8	36.6	0.372	1463.9	0.077	316	642
700	1.102	1.067	3.531	3.004	34.642	4.31	187	98.1	27.753	1031.0	35.3	0.390	1465.1	0.034	278	691
750	1.167	1.129	3.635	3.070	34.667	4.29	187	98.2	27.769	1031.3	34.1	0.408	1466.3	0.015	303	741
800	1.203	1.161	3.709	3.107	34.685	4.29	186	98.2	27.781	1031.5	33.2	0.425	1467.3	0.016	324	790
850	1.213	1.168	3.757	3.117	34.691	4.29	187	98.2	27.786	1031.8	32.9	0.441	1468.2	0.024	295	839
900	1.216	1.168	3.799	3.121	34.694	4.30	187	98.2	27.788	1032.0	32.8	0.457	1469.0	0.027	312	888
943	1.218	1.167	3.833	3.123	34.695	4.30	187	98.2	27.789	1032.2	32.9	0.472	1469.7			931

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	015B	2009/01/17	02:48	-75.0665	-101.8457	943	10	941	12

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
8	-0.687	-0.687	33.948	27.288	7.79	338	33.949			2166.4	-0.498	23	8
26	-0.966	-0.967	33.963	27.311	6.85	298	33.977			2190.8	-0.491	21	25
85	-0.790	-0.793	34.009	27.342	7.04	306	34.011			2196.8	-0.585	19	84
113	-0.701	-0.705	34.038	27.362	7.47	325	34.042	7.38	321	2188.1	-0.369	17	112
158	-1.342	-1.345	34.044	27.391	7.28	316	34.051			2211.9	-0.571	15	156
191	-0.638	-0.643	34.088	27.400	5.31	231	34.092			2221.9	-0.520	13	189
271	-0.958	-0.965	34.122	27.441	5.98	260	34.117	5.93	258	2223.5	-0.411	11	268
401	0.217	0.201	34.324	27.550	4.50	195	34.325	4.47	194	2241.0	-0.141	9	396
551	0.786	0.760	34.533	27.685	4.38	190	34.522	4.35	189	2255.3	-0.122	7	544
650	1.043	1.011	34.620	27.740	4.33	188	34.621	4.39	191	2256.0	-0.044	5	642
800	1.205	1.163	34.684	27.780	4.29	186	34.684	4.26	185	2263.1	-0.020	3	790
943	1.218	1.168	34.695	27.789	4.30	187	34.694	4.36	189	2260.2	-0.028	1	931

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	015U	2009/01/17	03:26	-75.0661	-101.8449	943	10	941	12

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.754	-0.754	1.109	1.108	33.950	7.64	332	27.293	1027.3	77.0	0.001	1444.2	1
25	-0.951	-0.951	0.931	0.912	33.964	6.83	297	27.312	1027.4	75.1	0.019	1443.7	25
50	-0.825	-0.826	1.077	1.040	33.994	6.56	285	27.331	1027.6	73.2	0.038	1444.8	50
75	-0.826	-0.828	1.096	1.039	34.002	6.26	272	27.338	1027.7	72.5	0.056	1445.2	74
100	-0.727	-0.730	1.215	1.139	34.015	7.29	317	27.345	1027.8	71.8	0.074	1446.1	99
125	-0.837	-0.841	1.124	1.030	34.041	7.35	319	27.370	1028.0	69.2	0.091	1446.0	124
150	-1.315	-1.319	0.665	0.552	34.038	7.37	320	27.384	1028.1	67.6	0.109	1444.1	148
175	-1.191	-1.196	0.810	0.678	34.073	6.88	299	27.409	1028.2	65.2	0.125	1445.2	173
200	-0.710	-0.716	1.311	1.160	34.086	5.51	240	27.401	1028.4	66.1	0.142	1447.9	198
225	-0.832	-0.839	1.207	1.038	34.094	5.80	252	27.413	1028.5	64.8	0.158	1447.7	222
250	-0.921	-0.928	1.138	0.950	34.106	5.99	260	27.427	1028.6	63.4	0.174	1447.7	247
275	-0.939	-0.947	1.140	0.933	34.119	5.91	257	27.437	1028.8	62.3	0.190	1448.1	272
300	-0.545	-0.555	1.555	1.329	34.158	5.45	237	27.453	1028.9	61.1	0.205	1450.4	297
325	-0.494	-0.505	1.626	1.381	34.173	5.07	220	27.463	1029.0	60.1	0.220	1451.0	321
350	-0.077	-0.090	2.065	1.802	34.250	4.82	210	27.506	1029.2	56.5	0.235	1453.5	346
375	0.163	0.148	2.328	2.045	34.304	4.51	196	27.536	1029.3	53.8	0.249	1455.1	371
400	0.217	0.201	2.401	2.100	34.324	4.50	195	27.550	1029.4	52.6	0.262	1455.8	395
425	0.276	0.259	2.481	2.161	34.344	4.48	195	27.563	1029.6	51.4	0.275	1456.5	420
450	0.337	0.318	2.562	2.223	34.360	4.47	194	27.572	1029.7	50.6	0.288	1457.2	445
475	0.389	0.369	2.634	2.276	34.378	4.46	194	27.584	1029.8	49.6	0.300	1457.8	469
500	0.450	0.429	2.715	2.339	34.403	4.46	194	27.601	1030.0	48.1	0.312	1458.6	494
550	0.759	0.734	3.068	2.654	34.522	4.39	191	27.678	1030.3	41.3	0.334	1460.9	543
600	0.852	0.824	3.201	2.749	34.561	4.39	191	27.704	1030.5	39.2	0.355	1462.2	593
650	1.017	0.985	3.406	2.917	34.613	4.34	188	27.735	1030.8	36.7	0.374	1463.9	642
700	1.103	1.068	3.532	3.005	34.640	4.31	187	27.752	1031.0	35.4	0.392	1465.1	691
750	1.167	1.128	3.635	3.070	34.664	4.30	187	27.766	1031.3	34.3	0.409	1466.2	741
800	1.204	1.163	3.711	3.109	34.684	4.29	186	27.780	1031.5	33.2	0.426	1467.3	790
850	1.212	1.167	3.757	3.117	34.687	4.29	187	27.783	1031.8	33.2	0.443	1468.1	839
900	1.216	1.168	3.798	3.121	34.691	4.30	187	27.786	1032.0	33.0	0.459	1469.0	888
943	1.218	1.167	3.833	3.123	34.695	4.30	187	27.789	1032.2	32.9	0.473	1469.7	931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0
20
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Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**016D**	2009/01/17	23:41	-75.0918	-101.7736	945	10	943	4	1.3	29	-1.4	978.0

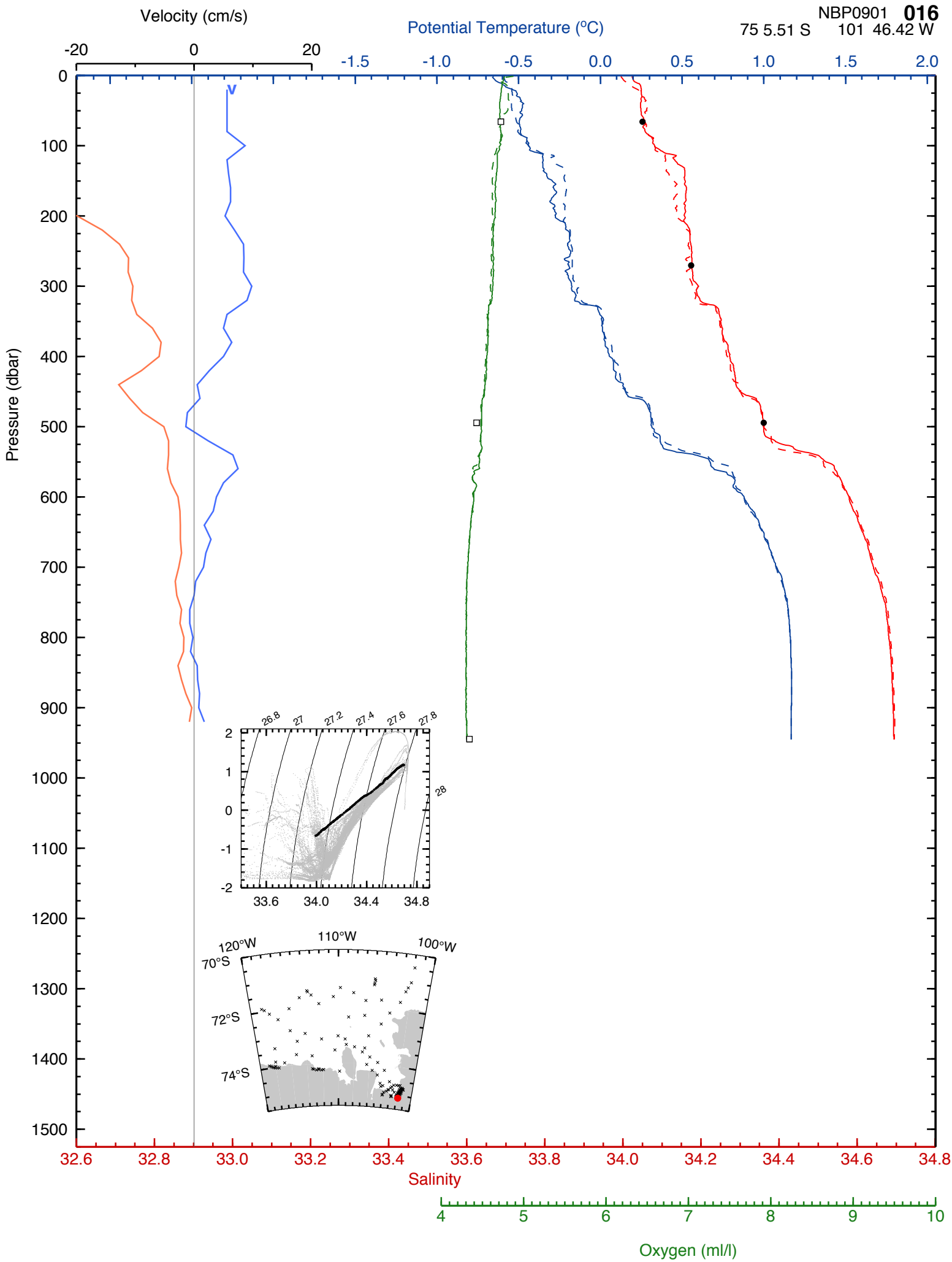
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.655	-0.655	1.210	1.210	33.995	4.77	207	94.6	27.325	1027.3	74.0	0.001	1444.8			1
25	-0.510	-0.511	1.377	1.358	34.047	4.73	205	94.9	27.361	1027.5	70.5	0.018	1445.9	0.410	278	25
50	-0.481	-0.482	1.425	1.388	34.061	4.71	205	94.9	27.371	1027.6	69.5	0.036	1446.5	0.410	278	50
75	-0.486	-0.488	1.439	1.383	34.063	4.72	205	94.9	27.373	1027.7	69.3	0.053	1446.8	0.409	278	74
100	-0.437	-0.440	1.508	1.432	34.081	4.71	205	94.8	27.385	1027.9	68.0	0.070	1447.5	0.365	284	99
125	-0.349	-0.353	1.616	1.522	34.109	4.68	203	94.9	27.404	1028.0	66.2	0.087	1448.4	0.331	280	124
150	-0.289	-0.294	1.696	1.583	34.131	4.66	203	94.9	27.419	1028.1	64.8	0.103	1449.1	0.288	282	148
175	-0.293	-0.299	1.711	1.579	34.130	4.66	203	94.9	27.419	1028.3	64.7	0.119	1449.5	0.245	285	173
200	-0.270	-0.277	1.754	1.603	34.139	4.65	202	94.9	27.425	1028.4	64.2	0.135	1450.0	0.209	285	198
225	-0.182	-0.190	1.862	1.693	34.171	4.63	201	94.9	27.447	1028.5	62.1	0.151	1450.8	0.169	295	222
250	-0.174	-0.182	1.890	1.701	34.174	4.63	201	95.0	27.449	1028.6	61.9	0.167	1451.3	0.148	305	247
275	-0.179	-0.189	1.903	1.696	34.172	4.63	201	94.9	27.448	1028.8	61.9	0.182	1451.7	0.140	307	272
300	-0.165	-0.176	1.936	1.710	34.178	4.63	201	95.0	27.451	1028.9	61.6	0.198	1452.2	0.142	312	297
325	-0.113	-0.125	2.008	1.763	34.197	4.60	200	95.0	27.465	1029.0	60.3	0.213	1452.8	0.137	310	321
350	0.023	0.010	2.166	1.902	34.248	4.57	199	95.0	27.499	1029.2	57.2	0.227	1453.9	0.105	302	346
375	0.037	0.023	2.199	1.917	34.256	4.57	199	95.3	27.504	1029.3	56.7	0.242	1454.4	0.086	312	371
400	0.072	0.056	2.253	1.952	34.267	4.55	198	95.1	27.512	1029.4	56.0	0.256	1455.0	0.079	312	395
425	0.111	0.095	2.312	1.992	34.280	4.55	198	95.0	27.520	1029.5	55.2	0.270	1455.6	0.093	286	420
450	0.172	0.154	2.393	2.054	34.302	4.53	197	94.7	27.534	1029.7	54.0	0.283	1456.3	0.124	273	445
475	0.316	0.297	2.559	2.202	34.353	4.49	195	94.6	27.568	1029.8	51.0	0.296	1457.5	0.099	269	469
500	0.335	0.314	2.597	2.220	34.360	4.49	195	94.4	27.573	1029.9	50.6	0.309	1458.0	0.063	257	494
550	0.696	0.671	3.005	2.590	34.514	4.46	194	97.2	27.675	1030.3	41.6	0.333	1460.6	0.080	327	543
600	0.907	0.878	3.257	2.805	34.581	4.39	191	97.7	27.717	1030.5	38.1	0.353	1462.5	0.053	324	593
650	1.030	0.998	3.420	2.931	34.618	4.35	189	97.9	27.738	1030.8	36.4	0.371	1463.9	0.030	308	642
700	1.114	1.078	3.543	3.016	34.646	4.32	188	98.0	27.756	1031.0	35.1	0.389	1465.2	0.030	307	691
750	1.182	1.143	3.650	3.085	34.675	4.30	187	98.0	27.775	1031.3	33.6	0.406	1466.3	0.029	269	741
800	1.204	1.162	3.710	3.108	34.685	4.30	187	98.0	27.782	1031.5	33.1	0.423	1467.3	0.021	258	790
850	1.214	1.169	3.759	3.119	34.692	4.30	187	98.0	27.787	1031.8	32.8	0.439	1468.2	0.027	279	839
900	1.216	1.168	3.798	3.120	34.695	4.30	187	97.9	27.789	1032.0	32.7	0.456	1469.0	0.014	316	888
945	1.218	1.167	3.834	3.122	34.695	4.31	187	98.0	27.789	1032.2	32.9	0.470	1469.7			933

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	016B	2009/01/17	00:04	-75.0919	-101.7736	945	10	943	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
66	-0.495	-0.497	34.058	27.369	4.72	205	34.050	4.72	205			7	65
270	-0.162	-0.172	34.178	27.451	4.60	200	34.175					5	267
494	0.343	0.323	34.362	27.574	4.47	194	34.360	4.43	192			3	488
945	1.218	1.167	34.695	27.789	4.31	187		4.34	189			1	932

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	016U	2009/01/18	00:30	-75.0917	-101.7736	945	10	943	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.591	-0.591	1.276	1.275	34.023	4.88	212	27.346	1027.3	72.0	0.001	1445.1	1
25	-0.540	-0.540	1.347	1.328	34.047	4.81	209	27.363	1027.5	70.3	0.018	1445.8	25
50	-0.539	-0.541	1.366	1.329	34.046	4.81	209	27.362	1027.6	70.3	0.035	1446.2	50
75	-0.510	-0.513	1.414	1.358	34.053	4.71	205	27.366	1027.7	69.9	0.053	1446.7	74
100	-0.436	-0.440	1.508	1.433	34.081	4.70	204	27.386	1027.9	68.0	0.070	1447.5	99
125	-0.270	-0.274	1.697	1.603	34.139	4.63	201	27.425	1028.0	64.3	0.086	1448.8	124
150	-0.213	-0.218	1.775	1.662	34.159	4.62	201	27.438	1028.2	63.0	0.102	1449.5	148
175	-0.208	-0.213	1.798	1.667	34.161	4.62	201	27.440	1028.3	62.8	0.118	1449.9	173
200	-0.215	-0.222	1.810	1.659	34.158	4.63	201	27.438	1028.4	63.0	0.134	1450.3	198
225	-0.176	-0.184	1.868	1.699	34.172	4.61	200	27.447	1028.5	62.0	0.149	1450.9	222
250	-0.165	-0.173	1.899	1.711	34.176	4.61	200	27.450	1028.6	61.8	0.165	1451.3	247
275	-0.164	-0.174	1.918	1.711	34.177	4.61	200	27.451	1028.8	61.7	0.180	1451.8	272
300	-0.118	-0.129	1.984	1.758	34.194	4.60	200	27.462	1028.9	60.6	0.196	1452.4	297
325	-0.072	-0.084	2.050	1.806	34.215	4.59	200	27.477	1029.0	59.2	0.211	1453.0	321
350	0.029	0.015	2.172	1.908	34.251	4.56	198	27.500	1029.2	57.1	0.225	1454.0	346
375	0.048	0.033	2.210	1.927	34.258	4.56	198	27.506	1029.3	56.6	0.239	1454.5	371
400	0.098	0.082	2.280	1.978	34.274	4.54	197	27.516	1029.4	55.7	0.253	1455.1	395
425	0.136	0.119	2.337	2.017	34.287	4.53	197	27.524	1029.5	54.9	0.267	1455.7	420
450	0.172	0.154	2.393	2.054	34.300	4.52	196	27.533	1029.7	54.1	0.281	1456.3	445
475	0.322	0.302	2.565	2.207	34.353	4.48	195	27.568	1029.8	51.0	0.294	1457.5	469
500	0.344	0.323	2.606	2.229	34.361	4.48	195	27.573	1029.9	50.6	0.306	1458.0	494
550	0.723	0.697	3.032	2.617	34.521	4.45	193	27.680	1030.3	41.2	0.330	1460.8	543
600	0.907	0.878	3.257	2.805	34.579	4.39	191	27.715	1030.5	38.3	0.350	1462.5	593
650	1.026	0.994	3.416	2.926	34.614	4.35	189	27.736	1030.8	36.6	0.368	1463.9	642
700	1.109	1.074	3.538	3.011	34.642	4.32	188	27.753	1031.0	35.3	0.386	1465.1	691
750	1.180	1.141	3.648	3.083	34.671	4.30	187	27.772	1031.3	33.8	0.404	1466.3	741
800	1.202	1.160	3.708	3.106	34.681	4.30	187	27.779	1031.5	33.4	0.420	1467.3	790
850	1.214	1.169	3.758	3.118	34.689	4.30	187	27.784	1031.8	33.0	0.437	1468.2	839
900	1.216	1.168	3.798	3.120	34.692	4.30	187	27.787	1032.0	32.9	0.453	1469.0	888
945	1.218	1.167	3.834	3.122	34.695	4.31	187	27.789	1032.2	32.9	0.468	1469.7	933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20
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Potential Temperature (°C)
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Pressure (dbar)
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120°W
110°W
100°W
70°S
72°S
74°S
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**017D**	2009/01/18	01:50	-75.0435	-101.7046	1047	9	1042	7	0.1	130	-0.7	977.8

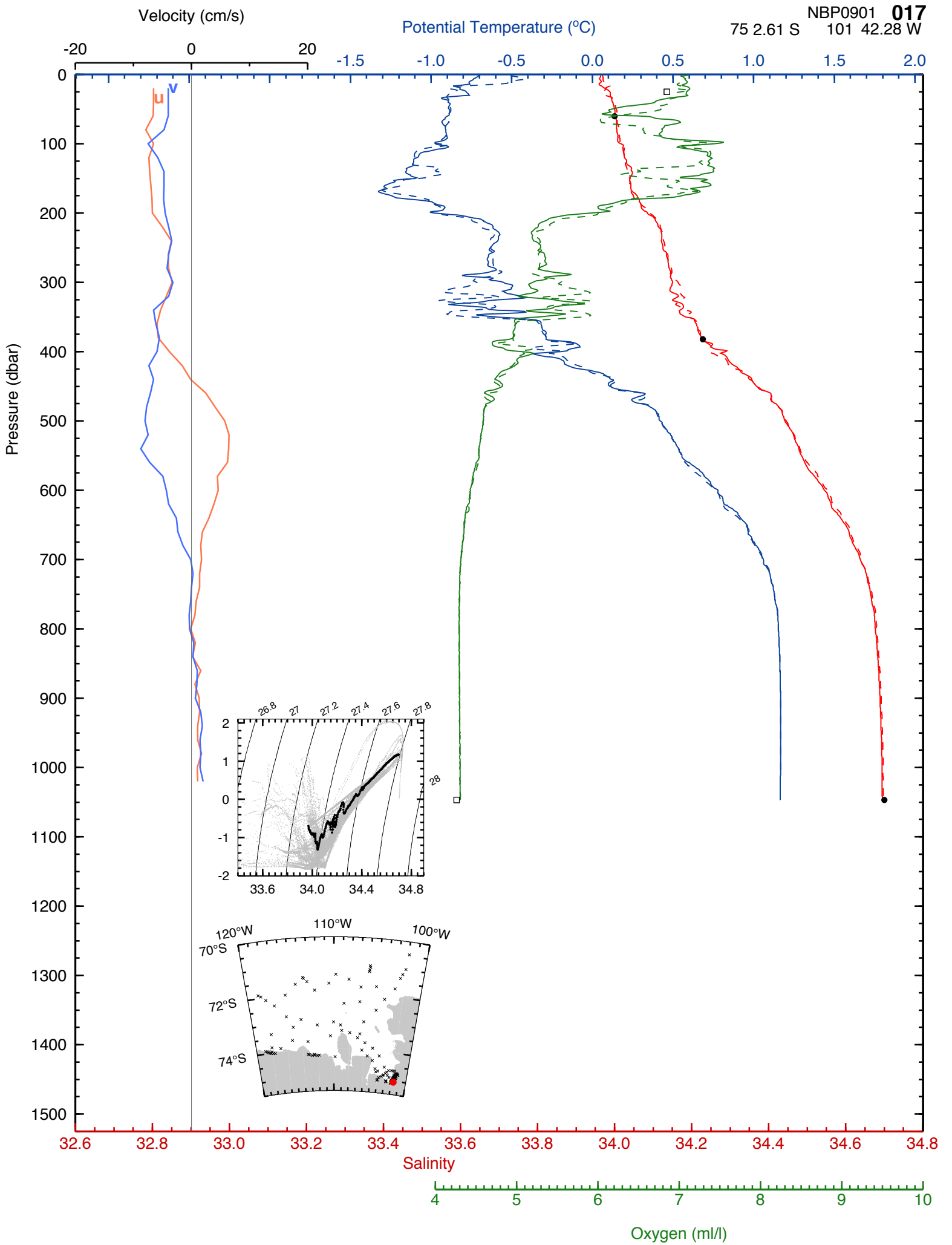
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.698	-0.698	1.166	1.165	33.967	7.01	305	88.9	27.305	1027.3	75.9	0.001	1444.5			1
25	-0.780	-0.781	1.102	1.083	33.972	7.09	308	87.8	27.311	1027.4	75.2	0.019	1444.5	0.076	238	25
50	-0.887	-0.889	1.016	0.978	34.005	6.16	268	91.2	27.342	1027.6	72.1	0.037	1444.5	0.076	239	50
75	-0.912	-0.914	1.010	0.954	34.010	6.82	296	90.5	27.348	1027.7	71.5	0.055	1444.8	0.088	239	74
100	-0.971	-0.974	0.970	0.895	34.016	7.43	323	89.6	27.355	1027.8	70.7	0.073	1444.9	0.099	222	99
125	-1.104	-1.108	0.856	0.762	34.027	7.36	320	89.9	27.369	1028.0	69.3	0.090	1444.7	0.092	232	124
150	-1.098	-1.102	0.882	0.769	34.041	7.17	312	92.0	27.380	1028.1	68.1	0.108	1445.2	0.085	237	148
175	-1.244	-1.248	0.755	0.624	34.049	7.04	306	94.4	27.391	1028.2	66.9	0.124	1444.9	0.083	235	173
200	-0.975	-0.980	1.046	0.896	34.090	5.91	257	95.5	27.415	1028.4	64.6	0.141	1446.6	0.081	236	198
225	-0.589	-0.596	1.453	1.283	34.122	5.21	226	96.0	27.426	1028.5	63.8	0.157	1448.9	0.061	231	222
250	-0.622	-0.630	1.438	1.250	34.131	5.29	230	96.3	27.434	1028.6	62.9	0.173	1449.2	0.051	226	247
275	-0.641	-0.650	1.439	1.232	34.143	5.36	233	96.4	27.445	1028.8	61.8	0.188	1449.5	0.057	224	272
300	-0.543	-0.552	1.558	1.332	34.164	5.20	226	96.5	27.458	1028.9	60.6	0.204	1450.4	0.048	225	297
325	-0.572	-0.582	1.548	1.303	34.174	5.46	237	96.4	27.467	1029.0	59.6	0.219	1450.7	0.060	227	321
350	-0.571	-0.583	1.568	1.305	34.193	5.24	228	96.8	27.482	1029.2	58.2	0.233	1451.1	0.084	221	346
375	-0.276	-0.289	1.885	1.602	34.223	4.96	216	96.6	27.493	1029.3	57.4	0.248	1452.9	0.082	225	371
400	-0.181	-0.195	2.000	1.699	34.252	5.07	220	96.1	27.512	1029.4	55.6	0.262	1453.8	0.072	216	395
425	-0.055	-0.071	2.148	1.828	34.316	4.89	213	97.2	27.558	1029.6	51.5	0.275	1454.9	0.075	192	420
450	0.127	0.109	2.352	2.013	34.371	4.82	210	97.4	27.592	1029.7	48.5	0.288	1456.2	0.067	176	445
475	0.318	0.298	2.564	2.207	34.415	4.63	201	97.5	27.618	1029.9	46.4	0.300	1457.6	0.081	157	469
500	0.442	0.421	2.709	2.333	34.446	4.59	199	97.7	27.636	1030.0	44.8	0.311	1458.6	0.095	147	494
550	0.579	0.554	2.886	2.472	34.489	4.54	197	97.8	27.663	1030.3	42.6	0.333	1460.1	0.106	143	543
600	0.805	0.777	3.154	2.702	34.553	4.43	193	97.9	27.700	1030.5	39.5	0.353	1462.0	0.065	135	593
650	0.991	0.959	3.380	2.891	34.606	4.35	189	98.0	27.731	1030.8	37.0	0.373	1463.7	0.039	132	642
700	1.095	1.060	3.524	2.997	34.642	4.32	188	98.0	27.753	1031.0	35.2	0.391	1465.1	0.019	111	691
750	1.167	1.128	3.635	3.070	34.668	4.30	187	98.0	27.770	1031.3	33.9	0.408	1466.3	0.014	90	741
800	1.195	1.153	3.701	3.099	34.680	4.30	187	98.0	27.778	1031.5	33.4	0.425	1467.2	0.005	161	790
850	1.207	1.162	3.751	3.111	34.687	4.29	187	98.0	27.783	1031.8	33.1	0.441	1468.1	0.004	35	839
900	1.214	1.166	3.796	3.119	34.692	4.30	187	98.0	27.787	1032.0	32.9	0.458	1469.0	0.013	46	888
950	1.218	1.167	3.838	3.123	34.696	4.30	187	98.0	27.790	1032.2	32.8	0.474	1469.8	0.022	31	938
1000	1.220	1.166	3.878	3.125	34.697	4.30	187	98.0	27.791	1032.5	32.9	0.491	1470.7	0.021	42	987
1047	1.223	1.165	3.916	3.127	34.696	4.30	187	98.0	27.790	1032.7	33.1	0.506	1471.5			1033

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	017B	2009/01/18	02:16	-75.0435	-101.7048	1047	9	1042	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
25	-0.879	-0.880	33.990	27.330	6.94	302		6.85	298			15	25
60	-0.886	-0.887	34.003	27.341	6.32	275	34.000					12	60
101	-0.992	-0.995	34.018	27.357	7.51	327						10	100
169	-1.288	-1.292	34.046	27.391	7.19	313					-0.619	8	168
382	-0.268	-0.282	34.228	27.497	4.93	214	34.229					5	377
386	-0.148	-0.163	34.244	27.505	4.85	211					-0.408	4	382
1047	1.222	1.165	34.696	27.790	4.30	187	34.701	4.26	185			2,1	1033

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	017U	2009/01/18	02:49	-75.0434	-101.7058	1047	9	1042	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.505	-0.505	1.358	1.357	33.964	7.11	309	27.293	1027.3	77.0	0.001	1445.4	1
25	-0.861	-0.862	1.022	1.003	33.988	7.02	305	27.328	1027.4	73.6	0.019	1444.2	25
50	-0.877	-0.878	1.026	0.988	34.000	6.78	295	27.338	1027.6	72.6	0.037	1444.5	50
75	-0.908	-0.910	1.014	0.957	34.005	6.50	283	27.344	1027.7	71.9	0.055	1444.8	74
100	-0.947	-0.950	0.994	0.918	34.016	7.28	317	27.354	1027.8	70.8	0.073	1445.0	99
125	-1.101	-1.105	0.859	0.765	34.031	7.26	316	27.372	1028.0	69.0	0.091	1444.7	124
150	-1.076	-1.080	0.904	0.791	34.039	6.67	290	27.378	1028.1	68.3	0.108	1445.3	148
175	-1.126	-1.131	0.874	0.742	34.058	6.73	293	27.395	1028.2	66.6	0.125	1445.5	173
200	-0.932	-0.937	1.089	0.938	34.086	6.00	261	27.410	1028.4	65.2	0.141	1446.8	198
225	-0.619	-0.626	1.422	1.253	34.121	5.29	230	27.426	1028.5	63.8	0.157	1448.8	222
250	-0.626	-0.633	1.435	1.247	34.126	5.28	230	27.430	1028.6	63.3	0.173	1449.1	247
275	-0.605	-0.614	1.475	1.268	34.140	5.28	230	27.441	1028.8	62.2	0.189	1449.7	272
300	-0.708	-0.717	1.392	1.166	34.151	5.54	241	27.454	1028.9	60.8	0.204	1449.6	297
325	-0.906	-0.915	1.213	0.968	34.151	5.71	248	27.462	1029.0	59.8	0.219	1449.1	321
350	-0.722	-0.733	1.417	1.153	34.185	5.79	252	27.483	1029.2	58.0	0.234	1450.4	346
375	-0.286	-0.299	1.874	1.592	34.221	4.98	216	27.492	1029.3	57.5	0.249	1452.9	371
400	-0.193	-0.208	1.989	1.688	34.288	5.04	219	27.542	1029.4	52.8	0.263	1453.8	395
425	-0.026	-0.042	2.178	1.858	34.323	4.91	213	27.562	1029.6	51.2	0.276	1455.0	420
450	0.133	0.115	2.358	2.019	34.370	4.80	208	27.591	1029.7	48.6	0.288	1456.2	445
475	0.331	0.312	2.578	2.220	34.418	4.68	203	27.619	1029.9	46.2	0.300	1457.6	469
500	0.438	0.417	2.705	2.328	34.442	4.59	199	27.633	1030.0	45.1	0.311	1458.5	494
550	0.578	0.554	2.885	2.471	34.485	4.53	197	27.660	1030.3	42.8	0.333	1460.1	543
600	0.782	0.754	3.130	2.679	34.545	4.44	193	27.695	1030.5	39.9	0.354	1461.9	593
650	0.980	0.949	3.369	2.880	34.600	4.36	189	27.727	1030.8	37.3	0.373	1463.7	642
700	1.093	1.057	3.521	2.994	34.638	4.32	188	27.751	1031.0	35.5	0.392	1465.1	691
750	1.166	1.127	3.634	3.069	34.665	4.30	187	27.768	1031.3	34.2	0.409	1466.2	741
800	1.195	1.153	3.701	3.099	34.677	4.29	186	27.775	1031.5	33.7	0.426	1467.2	790
850	1.207	1.162	3.751	3.111	34.684	4.30	187	27.781	1031.8	33.3	0.443	1468.1	839
900	1.214	1.166	3.796	3.119	34.689	4.30	187	27.785	1032.0	33.2	0.459	1469.0	888
950	1.218	1.167	3.838	3.123	34.692	4.30	187	27.787	1032.2	33.1	0.476	1469.8	938
1000	1.220	1.166	3.878	3.125	34.694	4.30	187	27.788	1032.5	33.1	0.492	1470.7	987
1047	1.223	1.165	3.916	3.127	34.696	4.30	187	27.790	1032.7	33.1	0.508	1471.5	1033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2.0
Pressure (dbar)
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100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
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27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
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Salinity
4
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**018D**	2009/01/18	03:56	-75.0054	-101.5810	1065	9	1060	8	0.8	273	-0.9	978.1

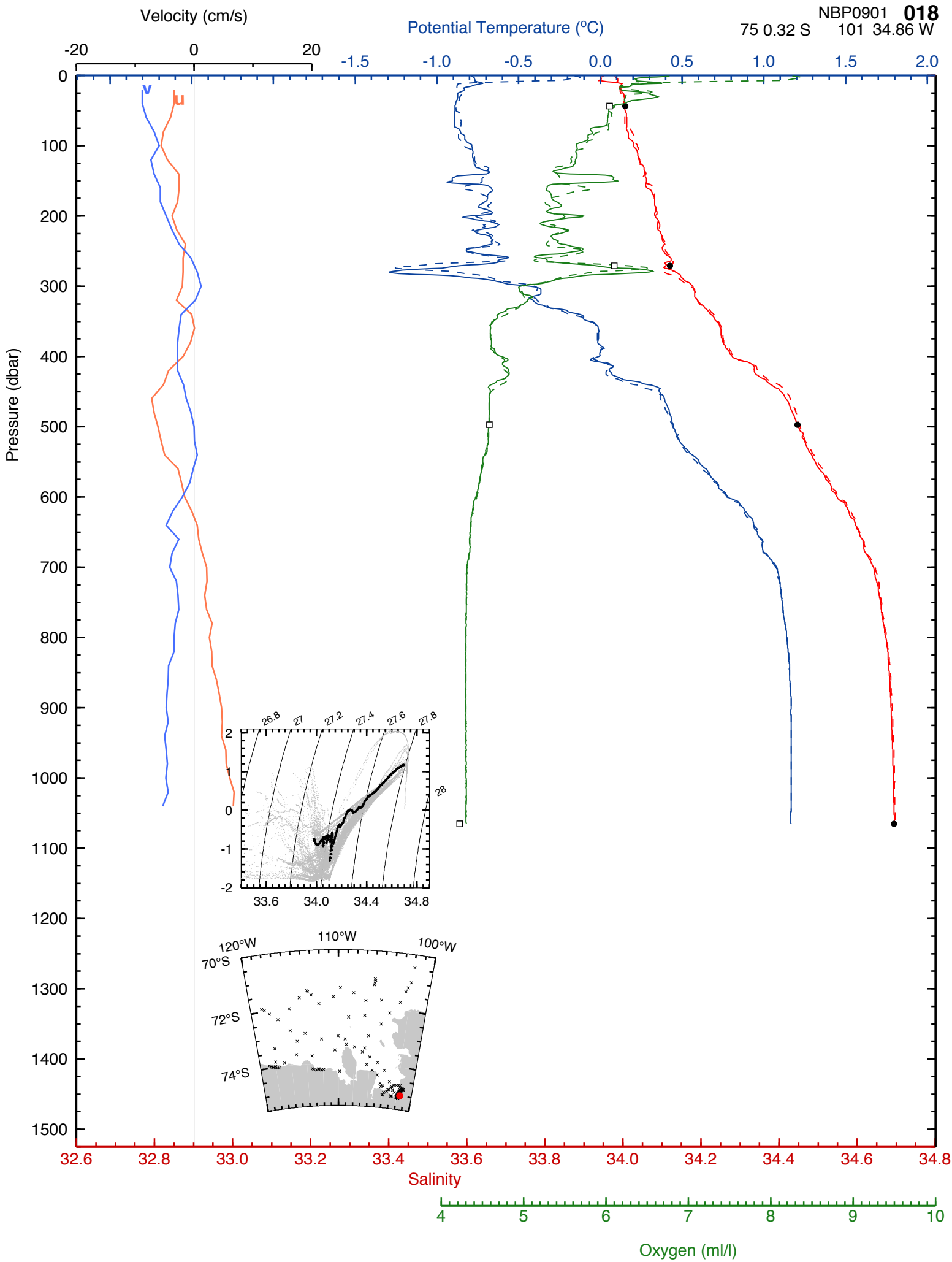
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.789	-0.789	1.076	1.075	33.979	6.77	294	89.7	27.318	1027.3	74.7	0.001	1444.1			1
25	-0.872	-0.873	1.011	0.992	33.995	6.54	284	90.8	27.334	1027.5	73.0	0.018	1444.1	0.094	201	25
50	-0.890	-0.891	1.013	0.976	34.005	6.03	262	92.6	27.343	1027.6	72.1	0.037	1444.5	0.092	204	50
75	-0.873	-0.875	1.050	0.993	34.016	5.82	253	93.1	27.351	1027.7	71.2	0.055	1445.0	0.087	214	74
100	-0.784	-0.787	1.159	1.083	34.037	5.64	245	93.8	27.365	1027.8	69.9	0.072	1445.8	0.081	223	99
125	-0.769	-0.772	1.193	1.099	34.044	5.63	245	93.9	27.370	1028.0	69.3	0.090	1446.3	0.084	210	124
150	-0.902	-0.906	1.079	0.966	34.052	6.15	267	93.6	27.381	1028.1	68.1	0.107	1446.1	0.068	202	148
175	-0.686	-0.692	1.315	1.183	34.081	5.34	232	95.2	27.397	1028.2	66.6	0.124	1447.6	0.063	205	173
200	-0.794	-0.800	1.227	1.076	34.083	5.73	249	95.3	27.402	1028.4	66.0	0.140	1447.5	0.060	217	198
225	-0.740	-0.747	1.300	1.130	34.094	5.44	236	95.6	27.409	1028.5	65.2	0.157	1448.2	0.045	217	222
250	-0.808	-0.816	1.251	1.063	34.110	5.65	246	95.9	27.425	1028.6	63.7	0.173	1448.2	0.026	227	247
275	-1.030	-1.038	1.048	0.841	34.114	6.34	275	96.6	27.437	1028.8	62.3	0.188	1447.6	0.020	273	272
300	-0.422	-0.432	1.678	1.452	34.171	4.96	216	96.5	27.458	1028.9	60.7	0.204	1451.0	0.022	298	297
325	-0.376	-0.387	1.745	1.501	34.196	5.00	217	96.6	27.476	1029.0	59.0	0.219	1451.6	0.029	268	321
350	-0.051	-0.064	2.091	1.828	34.243	4.62	201	95.8	27.499	1029.2	57.1	0.233	1453.6	0.023	187	346
375	0.002	-0.012	2.164	1.882	34.257	4.61	200	95.6	27.507	1029.3	56.4	0.247	1454.3	0.027	185	371
400	0.005	-0.010	2.188	1.887	34.285	4.73	206	96.1	27.530	1029.4	54.2	0.261	1454.7	0.033	209	395
425	0.086	0.069	2.291	1.971	34.352	4.82	210	97.4	27.579	1029.6	49.7	0.274	1455.6	0.051	237	420
450	0.380	0.361	2.607	2.269	34.418	4.60	200	97.3	27.616	1029.7	46.5	0.286	1457.4	0.059	253	445
475	0.438	0.418	2.686	2.328	34.441	4.58	199	97.6	27.632	1029.9	45.2	0.297	1458.1	0.071	263	469
500	0.469	0.447	2.736	2.360	34.454	4.58	199	97.7	27.641	1030.0	44.4	0.309	1458.7	0.063	269	494
550	0.628	0.603	2.935	2.521	34.500	4.50	196	97.8	27.668	1030.3	42.1	0.330	1460.3	0.046	274	543
600	0.808	0.780	3.156	2.705	34.552	4.42	192	97.9	27.700	1030.5	39.5	0.351	1462.0	0.025	231	593
650	0.992	0.960	3.381	2.891	34.607	4.35	189	98.0	27.732	1030.8	36.9	0.370	1463.7	0.045	173	642
700	1.114	1.079	3.543	3.016	34.646	4.31	187	98.0	27.756	1031.0	35.1	0.388	1465.2	0.043	156	691
750	1.151	1.112	3.619	3.054	34.663	4.30	187	98.0	27.767	1031.3	34.2	0.405	1466.2	0.032	146	741
800	1.181	1.139	3.687	3.085	34.675	4.30	187	98.1	27.775	1031.5	33.7	0.422	1467.2	0.044	139	790
850	1.202	1.157	3.746	3.106	34.686	4.30	187	98.1	27.782	1031.8	33.2	0.439	1468.1	0.053	144	839
900	1.214	1.166	3.796	3.118	34.690	4.30	187	98.1	27.785	1032.0	33.1	0.455	1469.0	0.064	136	888
950	1.218	1.167	3.838	3.123	34.693	4.30	187	98.0	27.788	1032.2	33.0	0.472	1469.8	0.069	136	938
1000	1.222	1.167	3.880	3.127	34.696	4.30	187	98.0	27.790	1032.5	33.0	0.488	1470.7	0.073	129	987
1065	1.224	1.166	3.931	3.129	34.696	4.30	187	97.9	27.790	1032.8	33.2	0.510	1471.8			1051

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	018B	2009/01/18	04:23	-75.0054	-101.5811	1065	9	1060	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.873	-0.873	33.993	27.332	6.33	275					-0.545	22	10
44	-0.880	-0.882	34.005	27.343	6.14	267	34.006	6.04	263		-0.480	19	43
120	-0.764	-0.768	34.043	27.369	5.59	243					-0.700	16	119
271	-0.959	-0.966	34.127	27.445	6.06	263	34.120	6.10	265		-0.474	13	268
385	0.015	0.001	34.272	27.519	4.61	200					0.168	10	380
497	0.478	0.456	34.455	27.641	4.57	199	34.448	4.59	199		0.250	7	491
801	1.181	1.140	34.674	27.774	4.29	187					0.211	4	791
1065	1.224	1.166	34.696	27.790	4.30	187	34.695	4.22	184		-0.030	1	1051

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	018U	2009/01/18	04:54	-75.0054	-101.5817	1065	9	1060	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.159	-0.159	1.704	1.704	33.950	8.26	359	27.267	1027.3	79.5	0.001	1447.0	1
25	-0.857	-0.858	1.027	1.008	34.000	6.51	283	27.338	1027.5	72.7	0.019	1444.2	25
50	-0.881	-0.882	1.022	0.984	34.006	6.02	262	27.343	1027.6	72.1	0.037	1444.5	50
75	-0.858	-0.860	1.064	1.008	34.010	6.03	262	27.345	1027.7	71.8	0.055	1445.0	74
100	-0.826	-0.829	1.116	1.040	34.028	5.76	250	27.359	1027.8	70.4	0.073	1445.6	99
125	-0.757	-0.760	1.205	1.111	34.045	5.57	242	27.370	1028.0	69.2	0.090	1446.4	124
150	-0.719	-0.724	1.262	1.149	34.061	5.45	237	27.381	1028.1	68.2	0.107	1447.0	148
175	-0.668	-0.673	1.334	1.202	34.081	5.32	231	27.395	1028.2	66.8	0.124	1447.7	173
200	-0.761	-0.767	1.259	1.109	34.083	5.49	239	27.401	1028.4	66.1	0.141	1447.6	198
225	-0.677	-0.683	1.363	1.194	34.097	5.39	234	27.409	1028.5	65.3	0.157	1448.5	222
250	-0.824	-0.831	1.235	1.047	34.104	5.75	250	27.420	1028.6	64.1	0.173	1448.2	247
275	-1.228	-1.235	0.851	0.644	34.113	6.49	282	27.443	1028.8	61.5	0.189	1446.7	272
300	-0.396	-0.406	1.705	1.480	34.178	5.00	217	27.463	1028.9	60.3	0.204	1451.1	297
325	-0.351	-0.362	1.770	1.526	34.199	4.98	216	27.477	1029.0	58.9	0.219	1451.7	321
350	-0.053	-0.066	2.090	1.826	34.240	4.63	201	27.496	1029.2	57.4	0.234	1453.6	346
375	-0.004	-0.018	2.158	1.875	34.254	4.60	200	27.505	1029.3	56.6	0.248	1454.2	371
400	-0.013	-0.028	2.169	1.868	34.280	4.69	204	27.526	1029.4	54.5	0.262	1454.6	395
425	0.051	0.035	2.256	1.936	34.341	4.82	209	27.572	1029.6	50.3	0.275	1455.4	420
450	0.350	0.331	2.577	2.238	34.405	4.61	200	27.608	1029.7	47.3	0.287	1457.3	445
475	0.418	0.398	2.665	2.307	34.431	4.58	199	27.625	1029.9	45.8	0.299	1458.0	469
500	0.464	0.442	2.731	2.355	34.450	4.58	199	27.638	1030.0	44.7	0.310	1458.7	494
550	0.613	0.588	2.920	2.506	34.493	4.51	196	27.664	1030.3	42.5	0.332	1460.2	543
600	0.803	0.774	3.151	2.699	34.548	4.43	193	27.697	1030.5	39.8	0.352	1462.0	593
650	0.993	0.961	3.382	2.892	34.605	4.35	189	27.730	1030.8	37.1	0.372	1463.8	642
700	1.109	1.074	3.538	3.011	34.642	4.32	188	27.753	1031.0	35.3	0.390	1465.1	691
750	1.152	1.114	3.620	3.055	34.660	4.30	187	27.765	1031.3	34.4	0.407	1466.2	741
800	1.182	1.140	3.688	3.085	34.674	4.30	187	27.774	1031.5	33.8	0.424	1467.2	790
850	1.202	1.157	3.746	3.106	34.682	4.30	187	27.780	1031.8	33.4	0.441	1468.1	839
900	1.214	1.166	3.796	3.118	34.687	4.30	187	27.783	1032.0	33.3	0.458	1469.0	888
950	1.218	1.167	3.838	3.123	34.690	4.30	187	27.785	1032.2	33.3	0.474	1469.8	938
1000	1.222	1.167	3.879	3.126	34.693	4.30	187	27.787	1032.5	33.2	0.491	1470.7	987
1065	1.224	1.166	3.931	3.129	34.696	4.30	187	27.790	1032.8	33.2	0.513	1471.8	1051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NBP0901 018
75 0.32 S
101 34.86 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**019D**	2009/01/18	05:31	-74.9548	-101.5239	983	9	979	6	1.1	92	-2.4	978.1

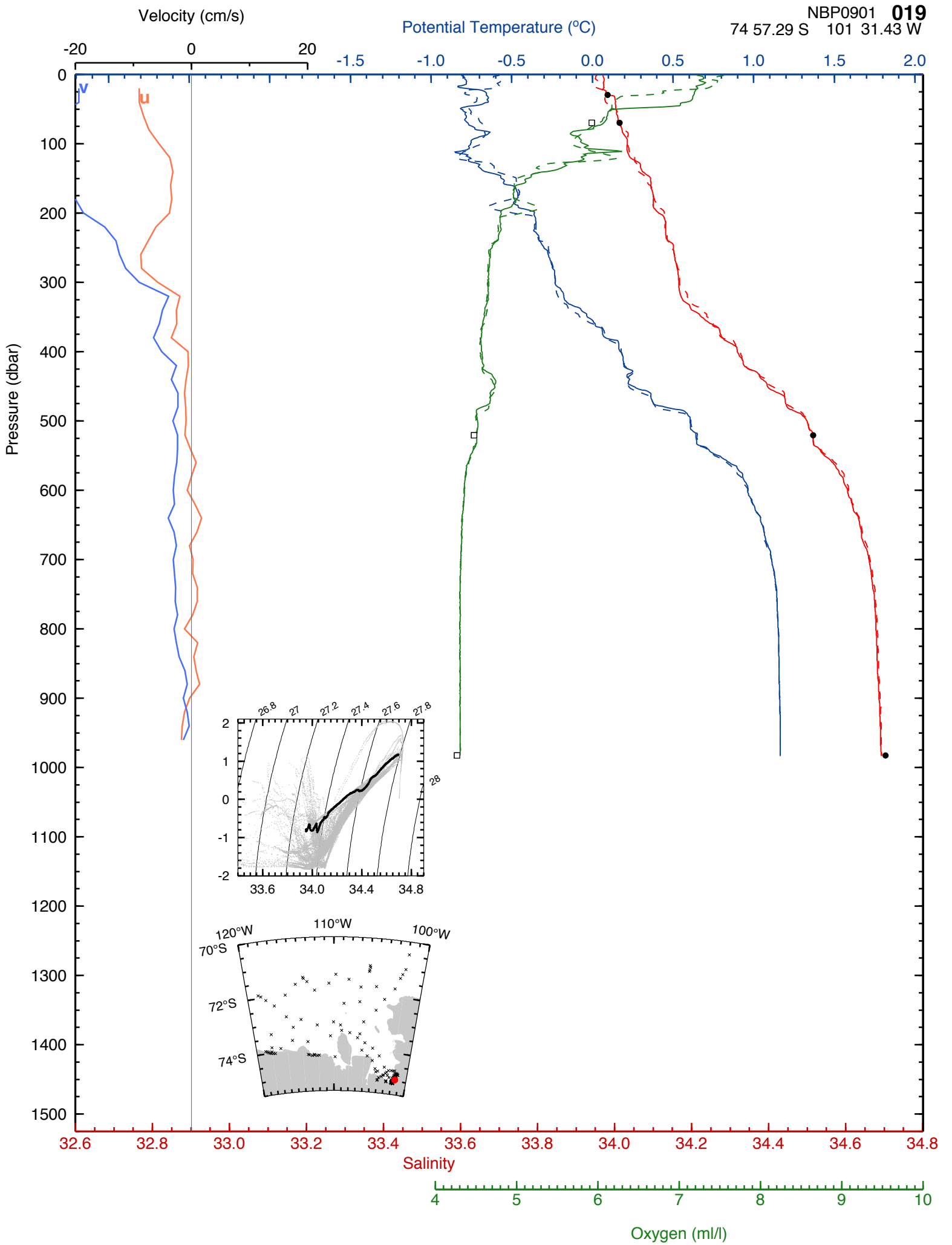
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.814	-0.814	1.049	1.049	33.955	7.21	314	87.4	27.299	1027.3	76.4	0.001	1444.0			1
25	-0.663	-0.663	1.219	1.201	33.972	7.19	313	85.9	27.307	1027.4	75.6	0.019	1445.1	0.214	205	25
50	-0.811	-0.813	1.091	1.054	34.001	6.20	270	90.0	27.336	1027.6	72.7	0.038	1444.8	0.228	203	50
75	-0.744	-0.746	1.178	1.122	34.016	5.97	259	91.6	27.346	1027.7	71.7	0.056	1445.6	0.235	199	74
100	-0.752	-0.754	1.191	1.115	34.034	5.83	253	92.8	27.361	1027.8	70.2	0.074	1446.0	0.224	195	99
125	-0.763	-0.767	1.199	1.105	34.053	5.76	250	93.3	27.377	1028.0	68.7	0.091	1446.4	0.225	189	124
150	-0.559	-0.564	1.423	1.310	34.079	5.13	223	94.3	27.390	1028.1	67.4	0.108	1447.8	0.220	189	148
175	-0.456	-0.462	1.546	1.415	34.100	4.96	216	94.5	27.402	1028.2	66.3	0.125	1448.7	0.207	190	173
200	-0.354	-0.360	1.669	1.519	34.129	4.81	209	94.8	27.421	1028.4	64.5	0.141	1449.6	0.192	191	198
225	-0.356	-0.364	1.686	1.516	34.130	4.81	209	94.8	27.422	1028.5	64.3	0.157	1450.0	0.160	203	222
250	-0.292	-0.300	1.770	1.582	34.147	4.70	204	95.1	27.432	1028.6	63.3	0.173	1450.7	0.150	212	247
275	-0.242	-0.252	1.839	1.632	34.162	4.67	203	95.2	27.442	1028.8	62.4	0.189	1451.4	0.146	216	272
300	-0.221	-0.231	1.880	1.654	34.169	4.66	202	95.1	27.447	1028.9	61.9	0.204	1451.9	0.113	214	297
325	-0.161	-0.172	1.960	1.715	34.191	4.65	202	95.0	27.462	1029.0	60.5	0.220	1452.6	0.045	207	321
350	-0.018	-0.031	2.125	1.861	34.241	4.60	200	95.2	27.495	1029.2	57.5	0.234	1453.7	0.057	207	346
375	0.078	0.064	2.241	1.959	34.272	4.57	199	95.0	27.515	1029.3	55.7	0.248	1454.6	0.067	206	371
400	0.189	0.173	2.374	2.072	34.321	4.57	199	95.5	27.549	1029.4	52.6	0.262	1455.6	0.056	192	395
425	0.241	0.224	2.446	2.126	34.349	4.59	199	95.9	27.569	1029.6	50.8	0.275	1456.3	0.026	191	420
450	0.274	0.255	2.501	2.162	34.409	4.73	206	97.6	27.616	1029.7	46.5	0.287	1456.9	0.034	197	445
475	0.398	0.378	2.647	2.289	34.446	4.67	203	97.8	27.639	1029.9	44.5	0.298	1458.0	0.025	206	469
500	0.629	0.606	2.899	2.522	34.500	4.52	196	97.7	27.669	1030.0	42.0	0.309	1459.5	0.031	198	494
550	0.810	0.784	3.121	2.707	34.553	4.43	193	97.9	27.700	1030.3	39.4	0.329	1461.2	0.024	181	543
600	0.993	0.964	3.345	2.893	34.608	4.36	189	98.0	27.732	1030.6	36.8	0.348	1462.9	0.031	188	593
650	1.085	1.053	3.477	2.987	34.639	4.33	188	98.1	27.752	1030.8	35.2	0.366	1464.2	0.042	158	642
700	1.147	1.111	3.577	3.050	34.663	4.31	187	98.1	27.767	1031.1	34.0	0.384	1465.3	0.029	180	691
750	1.181	1.143	3.650	3.085	34.676	4.30	187	98.1	27.776	1031.3	33.5	0.400	1466.3	0.029	160	741
800	1.194	1.152	3.700	3.098	34.682	4.30	187	98.1	27.779	1031.5	33.3	0.417	1467.2	0.028	188	790
850	1.202	1.157	3.746	3.106	34.685	4.30	187	98.1	27.782	1031.8	33.2	0.434	1468.1	0.021	169	839
900	1.208	1.161	3.791	3.113	34.689	4.31	187	98.1	27.785	1032.0	33.1	0.450	1469.0	0.015	149	888
950	1.216	1.165	3.836	3.120	34.693	4.31	187	98.0	27.787	1032.2	33.1	0.467	1469.8	0.016	254	938
983	1.219	1.165	3.863	3.123	34.693	4.30	187	98.0	27.787	1032.4	33.2	0.478	1470.4			970

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	019B	2009/01/18	05:57	-74.9548	-101.5238	982	9	979	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.524	-0.524	33.971	27.300	7.62	331						21	10
30	-0.716	-0.716	34.002	27.334	6.28	273	33.982					17	29
70	-0.677	-0.679	34.020	27.347	5.92	257	34.013	5.93	258			13	69
520	0.687	0.663	34.519	27.680	4.50	196	34.516	4.48	195		-0.152	8	514
750	1.183	1.144	34.676	27.775	4.30	187					-0.003	4	741
982	1.218	1.165	34.693	27.787	4.30	187	34.704	4.27	185		-0.025	1	970

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	019U	2009/01/18	06:25	-74.9560	-101.5247	982	9	979	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.575	-0.575	1.289	1.288	33.970	7.55	328	27.301	1027.3	76.2	0.001	1445.1	1
25	-0.792	-0.793	1.090	1.072	33.978	6.80	296	27.317	1027.4	74.7	0.019	1444.5	25
50	-0.762	-0.764	1.141	1.103	34.004	6.16	268	27.337	1027.6	72.7	0.037	1445.1	50
75	-0.673	-0.675	1.249	1.193	34.017	5.93	258	27.344	1027.7	72.0	0.055	1445.9	74
100	-0.690	-0.693	1.252	1.177	34.033	5.69	247	27.358	1027.8	70.6	0.073	1446.3	99
125	-0.727	-0.731	1.235	1.141	34.057	5.91	257	27.378	1028.0	68.5	0.091	1446.5	124
150	-0.467	-0.471	1.517	1.404	34.093	4.99	217	27.397	1028.1	66.8	0.108	1448.2	148
175	-0.452	-0.458	1.550	1.418	34.101	4.94	215	27.402	1028.2	66.2	0.124	1448.7	173
200	-0.487	-0.493	1.535	1.385	34.115	5.06	220	27.415	1028.4	64.9	0.141	1449.0	198
225	-0.342	-0.350	1.700	1.530	34.133	4.77	208	27.423	1028.5	64.2	0.157	1450.0	222
250	-0.264	-0.273	1.798	1.609	34.153	4.66	202	27.436	1028.6	63.0	0.173	1450.8	247
275	-0.238	-0.247	1.844	1.637	34.161	4.65	202	27.441	1028.8	62.5	0.188	1451.4	272
300	-0.219	-0.229	1.882	1.656	34.167	4.64	202	27.445	1028.9	62.1	0.204	1451.9	297
325	-0.191	-0.202	1.929	1.685	34.176	4.63	201	27.451	1029.0	61.5	0.219	1452.5	321
350	-0.063	-0.076	2.078	1.815	34.226	4.63	201	27.485	1029.1	58.4	0.234	1453.5	346
375	0.093	0.078	2.256	1.973	34.275	4.56	198	27.517	1029.3	55.5	0.249	1454.7	371
400	0.194	0.178	2.379	2.078	34.319	4.55	198	27.547	1029.4	52.8	0.262	1455.6	395
425	0.238	0.221	2.443	2.123	34.348	4.58	199	27.568	1029.6	50.9	0.275	1456.3	420
450	0.244	0.225	2.470	2.131	34.397	4.74	206	27.607	1029.7	47.2	0.287	1456.8	445
475	0.400	0.380	2.648	2.291	34.445	4.66	203	27.637	1029.9	44.6	0.299	1458.0	469
500	0.633	0.610	2.903	2.526	34.499	4.50	196	27.668	1030.0	42.1	0.309	1459.5	494
550	0.785	0.759	3.095	2.681	34.545	4.45	193	27.695	1030.3	39.8	0.330	1461.1	543
600	0.993	0.964	3.345	2.893	34.605	4.35	189	27.730	1030.6	37.0	0.349	1462.9	593
650	1.086	1.053	3.476	2.987	34.637	4.32	188	27.750	1030.8	35.4	0.367	1464.2	642
700	1.146	1.111	3.576	3.049	34.661	4.31	187	27.765	1031.1	34.2	0.385	1465.3	691
750	1.181	1.142	3.649	3.084	34.674	4.30	187	27.774	1031.3	33.6	0.402	1466.3	741
800	1.193	1.151	3.699	3.097	34.679	4.30	187	27.777	1031.5	33.5	0.418	1467.2	790
850	1.201	1.157	3.746	3.106	34.682	4.30	187	27.779	1031.8	33.5	0.435	1468.1	839
900	1.209	1.161	3.791	3.113	34.687	4.31	187	27.783	1032.0	33.3	0.452	1469.0	888
950	1.216	1.165	3.836	3.120	34.690	4.31	187	27.785	1032.2	33.2	0.468	1469.8	938
983	1.219	1.165	3.863	3.123	34.693	4.30	187	27.787	1032.4	33.2	0.479	1470.4	970


NBP0901 019
74 57.29 S 101 31.43 W
Velocity (cm/s)
-20
0
20
v
u
Potential Temperature (°C)
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**020D**	2009/01/18	07:01	-74.9067	-101.4578	832	8	829	5	3.2	50	-3.2	978.5

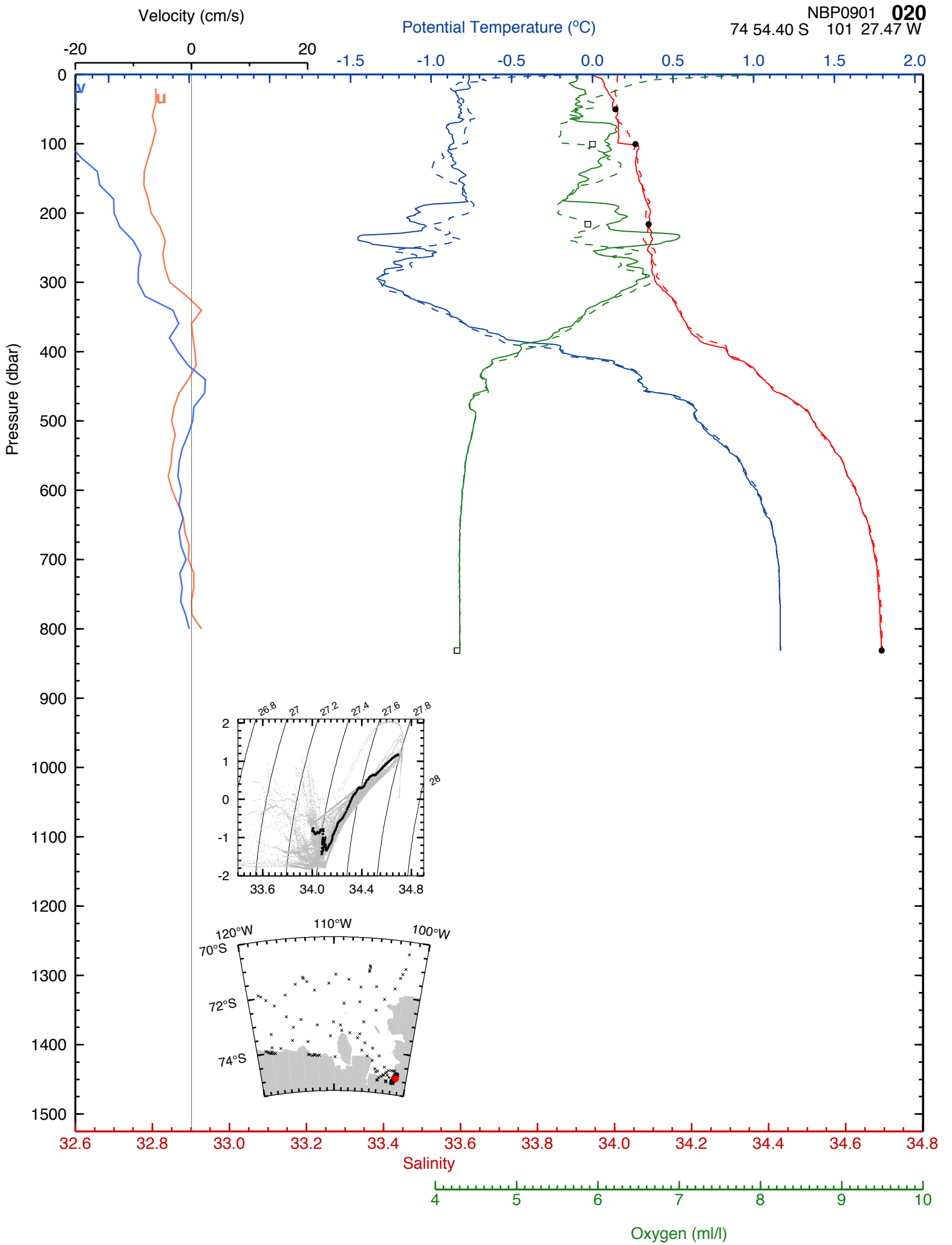
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.755	-0.755	1.111	1.110	34.007	5.75	250	93.1	27.339	1027.3	72.7	0.001	1444.3			1
25	-0.848	-0.849	1.035	1.017	34.001	5.84	254	93.1	27.338	1027.5	72.7	0.018	1444.3	0.208	197	25
50	-0.812	-0.813	1.091	1.053	34.008	5.72	249	93.0	27.342	1027.6	72.2	0.036	1444.8	0.215	197	50
75	-0.903	-0.905	1.020	0.963	34.022	6.23	271	92.3	27.357	1027.7	70.6	0.054	1444.8	0.232	196	74
100	-0.863	-0.866	1.080	1.005	34.049	6.14	267	92.9	27.377	1027.9	68.6	0.072	1445.5	0.222	197	99
125	-0.855	-0.859	1.107	1.013	34.060	6.00	261	93.5	27.386	1028.0	67.7	0.089	1445.9	0.200	202	124
150	-0.817	-0.821	1.165	1.052	34.067	5.88	255	94.0	27.390	1028.1	67.3	0.106	1446.5	0.180	207	148
175	-0.792	-0.797	1.210	1.078	34.084	5.63	245	94.9	27.403	1028.2	66.0	0.122	1447.1	0.162	209	173
200	-1.076	-1.082	0.944	0.793	34.081	6.24	271	95.9	27.412	1028.4	64.9	0.138	1446.1	0.150	208	198
225	-1.052	-1.059	0.987	0.817	34.086	6.23	271	96.0	27.415	1028.5	64.5	0.155	1446.7	0.131	204	222
250	-1.155	-1.161	0.904	0.716	34.096	6.16	268	96.6	27.427	1028.6	63.2	0.171	1446.6	0.106	206	247
275	-1.190	-1.198	0.888	0.681	34.107	6.36	276	96.5	27.437	1028.8	62.1	0.186	1446.9	0.101	208	272
300	-1.278	-1.286	0.820	0.594	34.123	6.48	282	96.9	27.453	1028.9	60.5	0.202	1446.9	0.100	203	297
325	-1.092	-1.101	1.027	0.782	34.153	6.13	266	97.4	27.471	1029.0	58.8	0.217	1448.2	0.077	184	321
350	-0.848	-0.858	1.291	1.028	34.177	5.79	252	97.4	27.481	1029.2	58.0	0.231	1449.8	0.032	160	346
375	-0.571	-0.584	1.588	1.306	34.215	5.45	237	97.1	27.500	1029.3	56.4	0.246	1451.5	0.030	178	371
400	-0.179	-0.193	2.004	1.703	34.291	5.03	219	97.2	27.543	1029.4	52.7	0.259	1453.9	0.027	168	395
425	0.238	0.221	2.444	2.123	34.359	4.60	200	97.0	27.577	1029.6	50.1	0.272	1456.3	0.009	122	420
450	0.331	0.312	2.558	2.219	34.406	4.62	201	97.4	27.610	1029.7	47.1	0.284	1457.2	0.026	341	445
475	0.622	0.601	2.871	2.513	34.470	4.42	192	96.1	27.645	1029.9	44.2	0.296	1459.0	0.030	299	469
500	0.671	0.649	2.942	2.566	34.514	4.48	195	97.7	27.677	1030.0	41.3	0.306	1459.7	0.033	275	494
550	0.908	0.882	3.221	2.806	34.582	4.38	190	97.9	27.717	1030.3	37.9	0.326	1461.7	0.038	243	543
600	1.049	1.020	3.402	2.950	34.627	4.33	188	98.1	27.744	1030.6	35.7	0.344	1463.2	0.040	242	593
650	1.143	1.110	3.535	3.046	34.661	4.30	187	98.1	27.766	1030.8	34.1	0.362	1464.5	0.021	221	642
700	1.185	1.149	3.616	3.089	34.680	4.30	187	98.1	27.778	1031.1	33.1	0.379	1465.5	0.013	202	691
750	1.198	1.159	3.667	3.103	34.689	4.30	187	98.1	27.784	1031.3	32.7	0.395	1466.4	0.016	166	741
800	1.207	1.165	3.714	3.112	34.694	4.30	187	98.1	27.788	1031.5	32.5	0.411	1467.3	0.013	139	790
832	1.210	1.166	3.741	3.114	34.694	4.31	187	98.0	27.788	1031.7	32.6	0.422	1467.8			822

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	020B	2009/01/18	07:22	-74.9068	-101.4575	831	8	829	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
50	-0.763	-0.764	34.008	27.340	5.75	250	34.002					17	50
101	-0.856	-0.859	34.058	27.385	5.97	259	34.055	5.93	258			13	100
216	-0.970	-0.976	34.093	27.417	5.88	256	34.089	5.88	256			9	214
709	1.192	1.155	34.682	27.779	4.29	186					0.105	5	700
831	1.210	1.166	34.694	27.788	4.30	187	34.693	4.27	185			1	821

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	020U	2009/01/18	07:48	-74.9068	-101.4575	831	8	829	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.189	-0.189	1.674	1.673	33.948	7.93	345	27.266	1027.3	79.5	0.001	1446.9	1
25	-0.849	-0.850	1.034	1.015	33.983	6.18	269	27.323	1027.4	74.0	0.019	1444.2	25
50	-0.770	-0.772	1.133	1.095	34.002	5.81	252	27.336	1027.6	72.8	0.037	1445.0	50
75	-0.780	-0.782	1.142	1.086	34.010	5.52	240	27.342	1027.7	72.1	0.055	1445.4	74
100	-0.796	-0.799	1.146	1.070	34.024	5.66	246	27.355	1027.8	70.8	0.073	1445.8	99
125	-0.969	-0.972	0.993	0.899	34.054	6.21	270	27.386	1028.0	67.7	0.090	1445.4	124
150	-0.915	-0.919	1.066	0.953	34.063	6.11	265	27.391	1028.1	67.2	0.107	1446.1	148
175	-0.774	-0.779	1.227	1.096	34.078	5.63	245	27.397	1028.2	66.5	0.124	1447.2	173
200	-0.765	-0.770	1.256	1.106	34.093	5.51	239	27.409	1028.4	65.3	0.140	1447.6	198
225	-0.929	-0.935	1.111	0.941	34.094	5.88	256	27.417	1028.5	64.4	0.157	1447.3	222
250	-1.119	-1.126	0.939	0.751	34.087	6.22	270	27.418	1028.6	64.1	0.173	1446.8	247
275	-1.122	-1.130	0.955	0.748	34.097	6.29	273	27.426	1028.7	63.2	0.189	1447.2	272
300	-1.308	-1.315	0.789	0.563	34.108	6.64	289	27.442	1028.9	61.5	0.204	1446.7	297
325	-1.107	-1.117	1.011	0.766	34.151	6.18	269	27.470	1029.0	58.9	0.219	1448.1	321
350	-0.861	-0.872	1.278	1.014	34.176	5.82	253	27.480	1029.2	58.0	0.234	1449.7	346
375	-0.678	-0.690	1.481	1.199	34.202	5.58	243	27.495	1029.3	56.8	0.248	1451.0	371
400	-0.167	-0.182	2.016	1.715	34.293	5.03	218	27.545	1029.4	52.6	0.262	1453.9	395
425	0.262	0.245	2.468	2.148	34.363	4.61	200	27.579	1029.6	49.9	0.275	1456.4	420
450	0.328	0.310	2.555	2.216	34.405	4.62	201	27.609	1029.7	47.1	0.287	1457.2	445
475	0.636	0.615	2.886	2.528	34.475	4.42	192	27.648	1029.9	43.9	0.298	1459.1	469
500	0.685	0.663	2.956	2.580	34.516	4.48	195	27.678	1030.0	41.2	0.309	1459.8	494
550	0.914	0.888	3.226	2.812	34.582	4.38	191	27.717	1030.3	38.0	0.329	1461.7	543
600	1.054	1.024	3.406	2.955	34.626	4.33	188	27.743	1030.6	35.9	0.347	1463.2	593
650	1.145	1.112	3.537	3.048	34.659	4.30	187	27.764	1030.8	34.2	0.365	1464.5	642
700	1.185	1.149	3.615	3.088	34.677	4.30	187	27.776	1031.1	33.3	0.382	1465.5	691
750	1.198	1.159	3.667	3.103	34.685	4.30	187	27.782	1031.3	32.9	0.398	1466.4	741
800	1.207	1.165	3.714	3.111	34.690	4.30	187	27.785	1031.5	32.8	0.415	1467.3	790
832	1.210	1.166	3.741	3.114	34.694	4.31	187	27.788	1031.7	32.6	0.425	1467.8	822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20
v
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Potential Temperature (°C)
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-0.5
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1.0
1.5
2.0
Pressure (dbar)
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100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**021D**	2009/01/18	08:48	-74.8582	-101.4119	777	11	779	6	2.4	24	-3.3	978.9

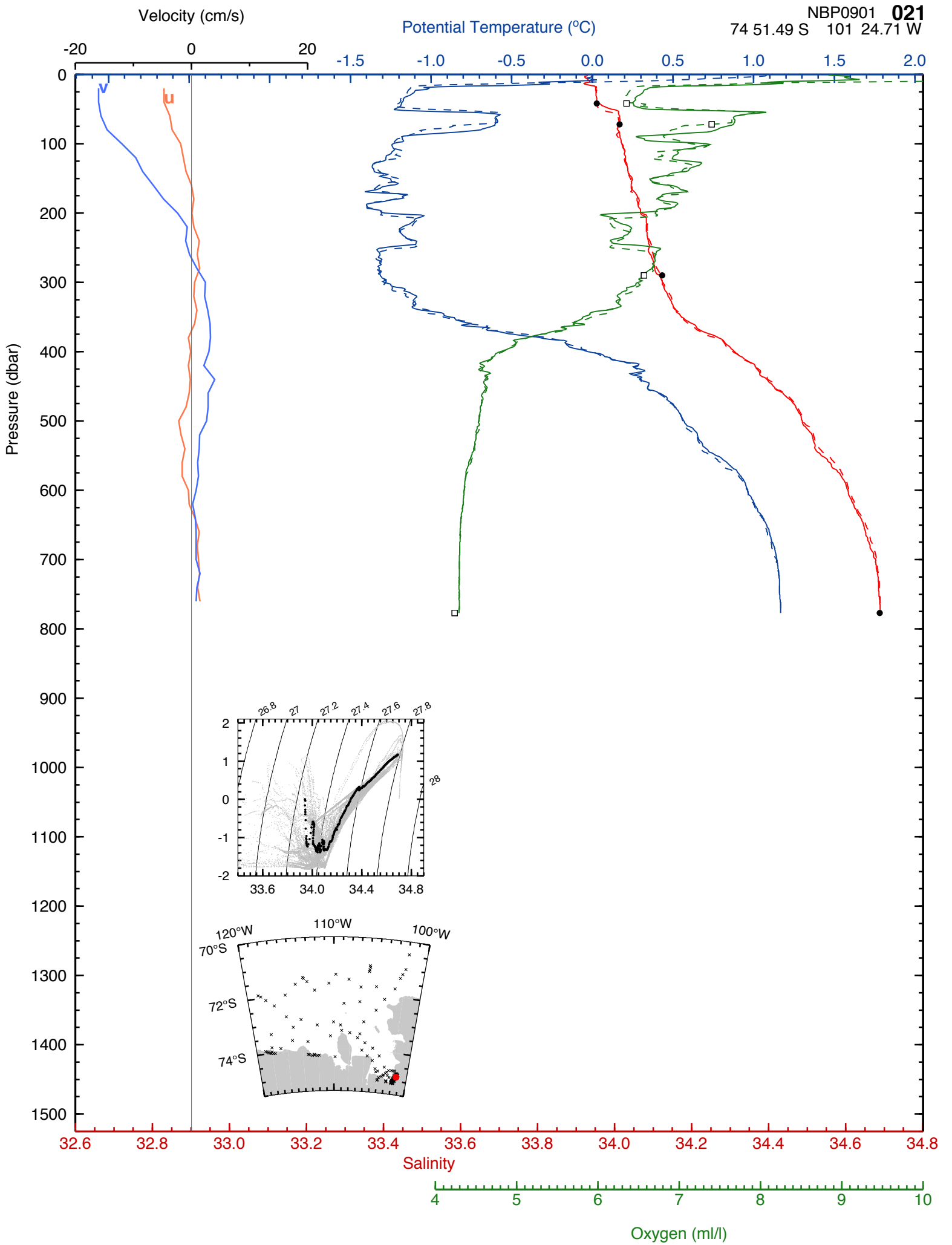
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.001	-0.001	1.861	1.861	33.942	8.83	384	72.6	27.252	1027.3	80.9	0.001	1447.7			1
25	-1.104	-1.105	0.777	0.758	33.953	6.56	285	93.6	27.308	1027.4	75.4	0.020	1443.0	0.167	196	25
50	-1.227	-1.228	0.673	0.635	33.961	6.62	288	94.8	27.320	1027.6	74.2	0.038	1442.8	0.164	195	50
75	-0.621	-0.623	1.301	1.245	34.014	7.58	330	85.5	27.339	1027.7	72.4	0.057	1446.2	0.152	193	74
100	-1.234	-1.236	0.707	0.632	34.020	7.33	319	94.4	27.367	1027.8	69.5	0.074	1443.7	0.122	189	99
125	-1.295	-1.298	0.666	0.572	34.029	7.12	310	94.2	27.377	1028.0	68.5	0.092	1443.8	0.095	188	124
150	-1.255	-1.258	0.726	0.613	34.041	6.66	289	95.2	27.386	1028.1	67.5	0.109	1444.4	0.076	184	148
175	-1.159	-1.164	0.841	0.709	34.060	6.79	295	94.2	27.397	1028.2	66.3	0.125	1445.3	0.054	177	173
200	-1.283	-1.288	0.737	0.586	34.071	6.35	276	96.0	27.410	1028.4	64.9	0.142	1445.2	0.027	177	198
225	-1.190	-1.196	0.849	0.680	34.085	6.40	278	96.3	27.419	1028.5	64.0	0.158	1446.0	0.009	148	222
250	-1.295	-1.301	0.763	0.575	34.092	6.74	293	96.5	27.428	1028.6	63.0	0.174	1445.9	0.014	120	247
275	-1.305	-1.312	0.773	0.567	34.108	6.69	291	96.2	27.441	1028.8	61.6	0.189	1446.3	0.014	77	272
300	-1.284	-1.292	0.814	0.588	34.125	6.49	282	96.4	27.455	1028.9	60.3	0.205	1446.8	0.024	20	297
325	-1.100	-1.109	1.018	0.774	34.149	6.28	273	96.8	27.468	1029.0	59.1	0.219	1448.2	0.023	10	321
350	-0.867	-0.877	1.272	1.008	34.177	5.82	253	97.1	27.482	1029.2	57.9	0.234	1449.7	0.030	15	346
375	-0.479	-0.492	1.682	1.399	34.233	5.31	231	96.9	27.510	1029.3	55.5	0.248	1452.0	0.033	191	371
400	-0.012	-0.027	2.172	1.871	34.307	4.80	209	97.0	27.548	1029.4	52.5	0.262	1454.7	0.031	357	395
425	0.313	0.295	2.519	2.199	34.374	4.54	197	96.5	27.585	1029.6	49.4	0.274	1456.7	0.022	347	420
450	0.365	0.346	2.593	2.254	34.415	4.63	201	97.1	27.615	1029.7	46.6	0.286	1457.4	0.037	356	445
475	0.518	0.498	2.768	2.410	34.469	4.56	198	97.5	27.650	1029.9	43.6	0.298	1458.5	0.029	348	469
500	0.590	0.568	2.860	2.483	34.491	4.53	197	97.6	27.663	1030.0	42.5	0.308	1459.3	0.033	327	494
550	0.795	0.770	3.106	2.692	34.553	4.45	193	97.8	27.701	1030.3	39.3	0.329	1461.1	0.017	317	543
600	0.993	0.963	3.344	2.892	34.609	4.36	189	97.8	27.734	1030.6	36.6	0.348	1462.9	0.013	320	593
650	1.112	1.079	3.504	3.014	34.652	4.31	187	97.7	27.761	1030.8	34.5	0.366	1464.3	0.010	42	642
700	1.180	1.144	3.611	3.084	34.681	4.29	187	97.8	27.779	1031.1	33.0	0.382	1465.5	0.014	54	691
750	1.200	1.161	3.669	3.104	34.688	4.29	187	97.8	27.784	1031.3	32.7	0.399	1466.4	0.014	51	741
777	1.208	1.168	3.698	3.113	34.691	4.29	186	97.8	27.785	1031.4	32.7	0.408	1466.9			767

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	021B	2009/01/18	09:09	-74.8582	-101.4122	777	11	779	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
11	0.180	0.179	33.917	27.223	9.21	400						21	11
42	-1.191	-1.192	33.958	27.316	6.34	276	33.954	6.35	276			17	41
72	-0.669	-0.671	34.013	27.340	7.46	324	34.013	7.40	322			13	71
290	-1.290	-1.297	34.121	27.451	6.50	283	34.124	6.57	286			9	286
700	1.179	1.143	34.679	27.777	4.29	187						5	692
777	1.208	1.168	34.691	27.785	4.29	186	34.689	4.24	184		-0.008	1	768

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	021U	2009/01/18	09:33	-74.8582	-101.4120	777	11	779	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	1.080	1.080	2.942	2.941	33.930	10.73	467	27.180	1027.2	87.7	0.001	1452.6	1
25	-1.147	-1.147	0.734	0.715	33.952	6.38	277	27.309	1027.4	75.4	0.020	1442.8	25
50	-1.010	-1.012	0.892	0.854	33.993	7.06	307	27.337	1027.6	72.6	0.039	1443.9	50
75	-0.865	-0.867	1.057	1.000	34.009	7.03	306	27.345	1027.7	71.8	0.057	1445.0	74
100	-1.230	-1.232	0.712	0.636	34.019	7.15	311	27.366	1027.8	69.6	0.075	1443.7	99
125	-1.312	-1.315	0.649	0.555	34.026	6.92	301	27.375	1028.0	68.6	0.092	1443.7	124
150	-1.198	-1.202	0.782	0.669	34.045	6.67	290	27.387	1028.1	67.4	0.109	1444.7	148
175	-1.165	-1.169	0.835	0.704	34.059	6.84	297	27.396	1028.2	66.4	0.126	1445.3	173
200	-1.302	-1.306	0.718	0.567	34.068	6.70	291	27.409	1028.4	65.1	0.142	1445.0	198
225	-1.188	-1.194	0.851	0.682	34.083	6.33	275	27.417	1028.5	64.3	0.158	1446.0	222
250	-1.134	-1.141	0.924	0.736	34.090	6.17	268	27.421	1028.6	63.8	0.174	1446.7	247
275	-1.315	-1.322	0.763	0.556	34.103	6.68	290	27.438	1028.8	62.0	0.190	1446.3	272
300	-1.273	-1.280	0.825	0.599	34.124	6.48	282	27.454	1028.9	60.4	0.205	1446.9	297
325	-1.093	-1.103	1.025	0.780	34.145	6.25	272	27.464	1029.0	59.4	0.220	1448.2	321
350	-0.913	-0.923	1.226	0.962	34.174	5.92	257	27.481	1029.2	57.9	0.235	1449.5	346
375	-0.400	-0.413	1.761	1.479	34.250	5.30	230	27.521	1029.3	54.7	0.249	1452.4	371
400	0.007	-0.009	2.191	1.890	34.311	4.83	210	27.551	1029.4	52.3	0.262	1454.8	395
425	0.294	0.277	2.500	2.180	34.370	4.58	199	27.583	1029.6	49.6	0.275	1456.6	420
450	0.363	0.344	2.590	2.251	34.413	4.60	200	27.613	1029.7	46.8	0.287	1457.3	445
475	0.510	0.489	2.759	2.402	34.465	4.57	199	27.647	1029.9	43.8	0.298	1458.5	469
500	0.583	0.561	2.852	2.476	34.487	4.54	197	27.661	1030.0	42.7	0.309	1459.3	494
550	0.750	0.725	3.060	2.646	34.537	4.46	194	27.691	1030.3	40.2	0.330	1460.9	543
600	0.989	0.959	3.340	2.888	34.606	4.35	189	27.731	1030.6	36.9	0.349	1462.9	593
650	1.103	1.071	3.495	3.005	34.647	4.31	187	27.757	1030.8	34.8	0.367	1464.3	642
700	1.177	1.141	3.608	3.081	34.678	4.30	187	27.777	1031.1	33.2	0.384	1465.5	691
750	1.200	1.161	3.669	3.104	34.686	4.29	187	27.782	1031.3	32.9	0.400	1466.4	741
777	1.208	1.168	3.698	3.113	34.691	4.29	186	27.785	1031.4	32.7	0.409	1466.9	767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Potential Temperature (°C)
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Pressure (dbar)
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120°W
110°W
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34.6
34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**022D**	2009/01/18	10:38	-74.8130	-101.3928	708	7	707	6	3.7	15	-2.1	978.8

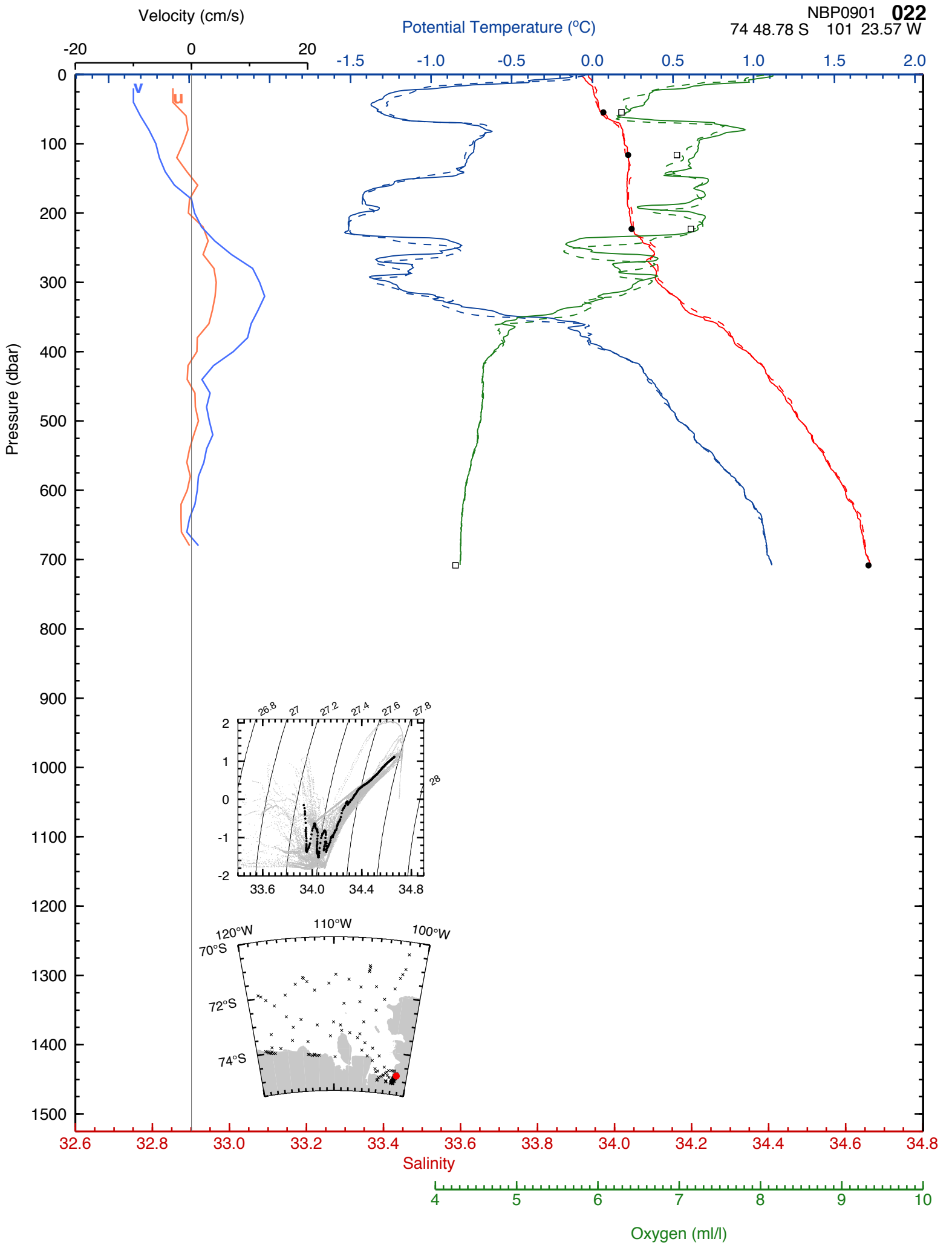
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.143	-0.143	1.719	1.718	33.932	8.16	355	81.9	27.251	1027.3	81.0	0.001	1447.1			1
25	-1.222	-1.223	0.659	0.640	33.953	6.67	290	91.1	27.312	1027.4	75.1	0.020	1442.4	0.105	198	25
50	-1.332	-1.333	0.569	0.531	33.959	6.40	278	95.7	27.321	1027.6	74.1	0.038	1442.3	0.097	192	50
75	-0.694	-0.697	1.228	1.171	34.010	7.62	331	86.9	27.339	1027.7	72.4	0.057	1445.8	0.077	185	74
100	-0.728	-0.731	1.214	1.139	34.026	7.24	315	87.8	27.354	1027.8	70.9	0.074	1446.1	0.064	193	99
125	-0.775	-0.779	1.186	1.092	34.037	7.12	309	89.7	27.364	1028.0	69.8	0.092	1446.3	0.057	202	124
150	-1.096	-1.100	0.884	0.771	34.041	7.35	319	90.7	27.379	1028.1	68.2	0.109	1445.2	0.040	177	148
175	-1.419	-1.423	0.579	0.448	34.036	7.32	318	94.4	27.387	1028.2	67.2	0.126	1444.0	0.013	232	173
200	-1.443	-1.448	0.575	0.424	34.045	7.19	312	96.3	27.395	1028.4	66.3	0.143	1444.3	0.006	310	198
225	-1.508	-1.513	0.529	0.360	34.049	7.21	314	96.4	27.400	1028.5	65.6	0.160	1444.5	0.029	48	222
250	-0.832	-0.839	1.227	1.039	34.107	5.74	249	96.3	27.424	1028.6	63.8	0.176	1448.1	0.057	29	247
275	-1.111	-1.118	0.968	0.761	34.111	6.19	269	96.4	27.437	1028.8	62.1	0.192	1447.2	0.096	19	272
300	-1.245	-1.252	0.853	0.627	34.124	6.48	282	96.6	27.452	1028.9	60.5	0.207	1447.0	0.123	20	297
325	-0.969	-0.978	1.151	0.906	34.167	6.00	261	96.9	27.477	1029.0	58.3	0.222	1448.8	0.132	18	321
350	-0.343	-0.355	1.799	1.535	34.239	5.04	219	97.0	27.509	1029.2	55.9	0.236	1452.2	0.117	17	346
375	-0.059	-0.073	2.105	1.823	34.301	4.89	213	96.9	27.546	1029.3	52.7	0.250	1454.0	0.102	11	371
400	0.136	0.120	2.322	2.021	34.343	4.72	205	97.1	27.570	1029.5	50.6	0.263	1455.4	0.079	7	395
425	0.329	0.311	2.536	2.216	34.390	4.59	199	97.1	27.597	1029.6	48.3	0.275	1456.8	0.038	351	420
450	0.411	0.392	2.640	2.301	34.428	4.59	199	97.3	27.623	1029.8	46.0	0.287	1457.6	0.022	262	445
475	0.493	0.472	2.742	2.384	34.461	4.58	199	97.6	27.645	1029.9	44.0	0.298	1458.4	0.030	13	469
500	0.555	0.533	2.825	2.448	34.482	4.55	198	97.7	27.658	1030.0	42.9	0.309	1459.1	0.031	19	494
550	0.778	0.753	3.089	2.675	34.547	4.46	194	97.9	27.698	1030.3	39.6	0.329	1461.1	0.025	351	543
600	0.970	0.941	3.321	2.870	34.602	4.37	190	97.9	27.729	1030.6	37.1	0.349	1462.8	0.012	334	593
650	1.090	1.057	3.481	2.991	34.643	4.32	188	97.8	27.755	1030.8	35.0	0.367	1464.2	0.018	259	642
700	1.136	1.100	3.565	3.038	34.660	4.31	187	97.8	27.765	1031.1	34.2	0.384	1465.3			691
708	1.147	1.110	3.583	3.050	34.664	4.31	187	97.8	27.768	1031.1	34.0	0.387	1465.5			699

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	022B	2009/01/18	10:58	-74.8130	-101.3930	708	7	707	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.647	-0.647	33.934	27.276	7.26	315						21	10
55	-1.316	-1.317	33.969	27.329	6.27	273	33.971	6.29	274			18	54
116	-0.799	-0.802	34.038	27.366	7.02	305	34.035	6.97	303			13	115
223	-1.391	-1.396	34.054	27.400	7.03	306	34.044	7.14	311			9	220
650	1.081	1.049	34.639	27.752	4.32	188						5	642
708	1.146	1.110	34.664	27.768	4.31	187	34.660	4.25	185			1	699

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	022U	2009/01/18	11:21	-74.8130	-101.3926	708	7	707	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.045	-0.045	1.816	1.815	33.916	8.04	350	27.233	1027.2	82.7	0.001	1447.5	1
25	-1.109	-1.110	0.771	0.752	33.946	6.64	289	27.303	1027.4	76.0	0.020	1443.0	25
50	-1.325	-1.326	0.575	0.538	33.960	6.37	277	27.322	1027.6	74.0	0.038	1442.4	50
75	-0.659	-0.661	1.264	1.207	34.016	7.55	328	27.343	1027.7	72.1	0.057	1446.0	74
100	-0.740	-0.743	1.202	1.126	34.025	7.20	313	27.353	1027.8	71.0	0.075	1446.0	99
125	-0.799	-0.802	1.163	1.068	34.037	7.02	305	27.365	1028.0	69.7	0.092	1446.2	124
150	-1.096	-1.099	0.884	0.771	34.033	7.20	313	27.373	1028.1	68.8	0.109	1445.2	148
175	-1.403	-1.407	0.595	0.464	34.033	7.22	314	27.383	1028.2	67.5	0.126	1444.1	173
200	-1.368	-1.373	0.649	0.499	34.038	6.72	292	27.387	1028.3	67.1	0.143	1444.7	198
225	-1.498	-1.503	0.539	0.370	34.050	7.15	311	27.400	1028.5	65.6	0.160	1444.5	222
250	-0.851	-0.859	1.207	1.019	34.091	5.74	249	27.411	1028.6	64.9	0.176	1448.0	247
275	-1.296	-1.303	0.781	0.574	34.096	6.70	291	27.431	1028.8	62.6	0.192	1446.3	272
300	-1.345	-1.353	0.752	0.526	34.112	6.66	289	27.446	1028.9	61.0	0.208	1446.5	297
325	-0.867	-0.877	1.252	1.007	34.169	5.90	256	27.475	1029.0	58.6	0.222	1449.3	321
350	-0.538	-0.550	1.603	1.340	34.225	5.58	242	27.507	1029.2	55.9	0.237	1451.3	346
375	0.007	-0.007	2.172	1.889	34.296	4.78	208	27.538	1029.3	53.5	0.251	1454.3	371
400	0.133	0.118	2.319	2.018	34.344	4.74	206	27.571	1029.5	50.5	0.264	1455.4	395
425	0.330	0.312	2.537	2.217	34.390	4.58	199	27.597	1029.6	48.3	0.276	1456.8	420
450	0.399	0.380	2.627	2.288	34.420	4.57	199	27.617	1029.7	46.5	0.288	1457.5	445
475	0.474	0.453	2.722	2.365	34.453	4.58	199	27.640	1029.9	44.5	0.299	1458.3	469
500	0.563	0.541	2.833	2.456	34.483	4.56	198	27.659	1030.0	42.9	0.310	1459.2	494
550	0.771	0.745	3.081	2.667	34.544	4.47	194	27.695	1030.3	39.8	0.331	1461.0	543
600	0.966	0.937	3.317	2.865	34.598	4.37	190	27.727	1030.5	37.3	0.350	1462.8	593
650	1.083	1.050	3.474	2.984	34.639	4.32	188	27.752	1030.8	35.2	0.368	1464.2	642
700	1.137	1.101	3.567	3.040	34.660	4.31	187	27.765	1031.1	34.2	0.386	1465.3	691
708	1.147	1.110	3.583	3.050	34.664	4.31	187	27.768	1031.1	34.0	0.388	1465.5	699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0
20
v
u
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2.0
NBP0901 022
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Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**023D**	2009/01/18	12:28	-74.7737	-101.1968	713	9	714	7	2.3	6	-1.6	979.0

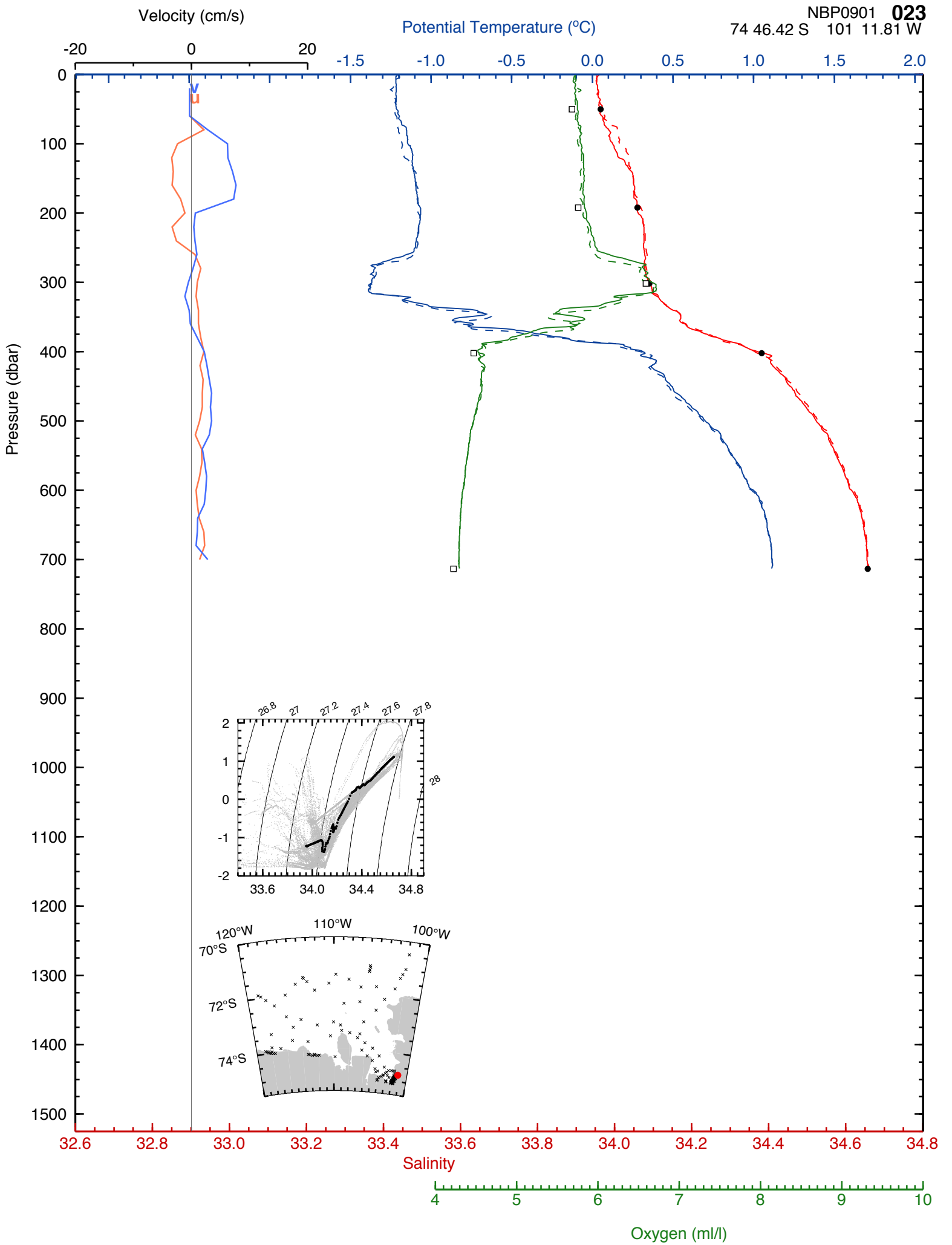
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.210	-1.210	0.653	0.652	33.960	5.72	249	97.0	27.318	1027.3	74.7	0.001	1442.1			1
25	-1.217	-1.217	0.665	0.646	33.958	5.72	249	97.0	27.316	1027.4	74.7	0.019	1442.5	0.004	225	25
50	-1.214	-1.215	0.687	0.649	33.962	5.75	250	97.0	27.320	1027.6	74.3	0.037	1442.9	0.004	225	50
75	-1.161	-1.163	0.761	0.704	34.002	5.79	252	97.1	27.350	1027.7	71.2	0.056	1443.6	0.026	92	74
100	-1.142	-1.145	0.799	0.724	34.013	5.79	252	97.2	27.359	1027.8	70.3	0.073	1444.1	0.064	322	99
125	-1.114	-1.117	0.847	0.753	34.038	5.82	253	97.3	27.378	1028.0	68.4	0.091	1444.7	0.073	332	124
150	-1.095	-1.099	0.885	0.772	34.049	5.83	253	97.3	27.386	1028.1	67.5	0.108	1445.2	0.080	337	148
175	-1.082	-1.086	0.918	0.786	34.055	5.83	253	97.3	27.390	1028.2	67.0	0.124	1445.7	0.078	342	173
200	-1.059	-1.064	0.961	0.810	34.074	5.86	255	97.4	27.405	1028.4	65.6	0.141	1446.2	0.020	307	198
225	-1.074	-1.080	0.965	0.796	34.079	5.91	257	97.4	27.410	1028.5	65.0	0.157	1446.6	0.032	278	222
250	-1.093	-1.099	0.965	0.777	34.081	5.98	260	97.4	27.412	1028.6	64.6	0.174	1446.9	0.021	194	247
275	-1.358	-1.365	0.719	0.512	34.081	6.59	286	97.4	27.421	1028.7	63.5	0.190	1446.0	0.014	61	272
300	-1.360	-1.368	0.736	0.510	34.092	6.66	290	97.3	27.430	1028.9	62.5	0.205	1446.4	0.012	110	297
325	-1.163	-1.172	0.953	0.708	34.119	6.28	273	97.3	27.446	1029.0	61.1	0.221	1447.8	0.014	142	321
350	-0.779	-0.790	1.359	1.096	34.169	5.78	251	96.9	27.472	1029.1	58.9	0.236	1450.1	0.013	106	346
375	-0.304	-0.317	1.857	1.575	34.245	5.08	221	96.9	27.512	1029.3	55.5	0.250	1452.8	0.016	77	371
400	0.329	0.312	2.516	2.215	34.363	4.53	197	96.2	27.575	1029.5	50.3	0.263	1456.3	0.027	47	395
425	0.398	0.380	2.607	2.287	34.426	4.60	200	97.2	27.622	1029.6	46.0	0.275	1457.1	0.031	29	420
450	0.512	0.493	2.743	2.404	34.468	4.57	199	97.5	27.649	1029.8	43.6	0.287	1458.1	0.038	32	445
475	0.614	0.593	2.865	2.507	34.497	4.52	196	97.7	27.667	1029.9	42.1	0.297	1459.0	0.039	29	469
500	0.721	0.699	2.993	2.617	34.528	4.47	194	97.7	27.685	1030.0	40.6	0.308	1460.0	0.038	24	494
550	0.894	0.868	3.207	2.793	34.579	4.40	191	97.8	27.716	1030.3	38.1	0.327	1461.6	0.026	41	543
600	1.027	0.998	3.380	2.928	34.620	4.34	188	97.8	27.740	1030.6	36.1	0.346	1463.1	0.028	22	593
650	1.115	1.083	3.507	3.018	34.648	4.30	187	97.7	27.757	1030.8	34.8	0.363	1464.4	0.018	51	642
700	1.149	1.113	3.578	3.051	34.657	4.29	186	97.6	27.762	1031.0	34.5	0.381	1465.3	0.028	46	691
713	1.149	1.113	3.588	3.052	34.659	4.29	187	97.6	27.764	1031.1	34.4	0.385	1465.6			704

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	023B	2009/01/18	12:48	-74.7737	-101.1968	713	9	714	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.229	-1.229	33.954	27.314	5.72	248					-0.608	21	10
50	-1.215	-1.216	33.968	27.324	5.73	249	33.964	5.68	247		-0.524	17	50
192	-1.079	-1.085	34.060	27.394	5.81	252	34.059	5.76	250		-0.495	14	190
301	-1.339	-1.347	34.097	27.434	6.62	288	34.091	6.59	286		-0.524	11	298
402	0.346	0.330	34.393	27.598	4.56	198	34.382	4.47	194		-0.224	8	397
650	1.117	1.085	34.648	27.756	4.30	187					0.024	5	642
713	1.150	1.114	34.659	27.764	4.29	186	34.657	4.22	184		-0.020	1	704

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	023U	2009/01/18	13:11	-74.7737	-101.1968	713	9	714	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.208	-1.208	0.656	0.655	33.954	5.72	249	27.313	1027.3	75.1	0.001	1442.1	1
25	-1.232	-1.233	0.649	0.631	33.958	5.76	251	27.317	1027.4	74.6	0.019	1442.4	25
50	-1.214	-1.216	0.686	0.649	33.967	5.73	249	27.324	1027.6	73.9	0.037	1442.9	50
75	-1.207	-1.209	0.713	0.656	33.976	5.75	250	27.331	1027.7	73.0	0.056	1443.3	74
100	-1.177	-1.180	0.763	0.688	33.995	5.75	250	27.345	1027.8	71.6	0.074	1443.9	99
125	-1.133	-1.137	0.827	0.733	34.026	5.79	252	27.369	1028.0	69.2	0.091	1444.6	124
150	-1.087	-1.091	0.894	0.781	34.049	5.78	251	27.386	1028.1	67.6	0.109	1445.2	148
175	-1.080	-1.085	0.919	0.787	34.050	5.78	251	27.387	1028.2	67.4	0.125	1445.7	173
200	-1.074	-1.080	0.945	0.794	34.061	5.82	253	27.395	1028.4	66.5	0.142	1446.1	198
225	-1.072	-1.078	0.967	0.797	34.076	5.88	256	27.408	1028.5	65.2	0.158	1446.6	222
250	-1.081	-1.088	0.976	0.788	34.076	5.91	257	27.407	1028.6	65.1	0.175	1446.9	247
275	-1.319	-1.326	0.757	0.550	34.077	6.43	279	27.416	1028.7	63.9	0.191	1446.2	272
300	-1.351	-1.359	0.745	0.519	34.091	6.59	287	27.429	1028.9	62.6	0.207	1446.5	297
325	-1.170	-1.178	0.947	0.702	34.118	6.26	272	27.445	1029.0	61.1	0.222	1447.8	321
350	-0.623	-0.635	1.515	1.252	34.172	5.38	234	27.468	1029.1	59.5	0.237	1450.8	346
375	-0.375	-0.388	1.786	1.504	34.240	5.24	228	27.512	1029.3	55.5	0.252	1452.5	371
400	0.311	0.294	2.498	2.197	34.371	4.57	198	27.582	1029.5	49.6	0.265	1456.2	395
425	0.377	0.360	2.586	2.266	34.419	4.60	200	27.617	1029.6	46.4	0.277	1457.0	420
450	0.490	0.471	2.720	2.381	34.456	4.56	198	27.641	1029.8	44.4	0.288	1458.0	445
475	0.589	0.569	2.840	2.482	34.490	4.53	197	27.662	1029.9	42.5	0.299	1458.9	469
500	0.710	0.687	2.981	2.605	34.524	4.47	194	27.683	1030.0	40.8	0.309	1459.9	494
550	0.889	0.863	3.201	2.787	34.576	4.40	191	27.713	1030.3	38.3	0.329	1461.6	543
600	1.016	0.986	3.368	2.916	34.615	4.34	189	27.737	1030.6	36.4	0.348	1463.0	593
650	1.116	1.083	3.508	3.018	34.647	4.30	187	27.756	1030.8	34.9	0.365	1464.4	642
700	1.149	1.113	3.578	3.051	34.656	4.29	186	27.761	1031.0	34.6	0.383	1465.3	691
713	1.149	1.113	3.588	3.052	34.659	4.29	187	27.764	1031.1	34.4	0.387	1465.6	704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Potential Temperature (°C)
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NBP0901 023
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Pressure (dbar)
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300
400
500
600
700
800
900
1000
1100
1200
1300
1400
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27.4
27.6
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34.0
34.4
34.8
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110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**024D**	2009/01/19	03:28	-75.1019	-101.9890	228	32	258	3	4.0	107	-0.2	978.2

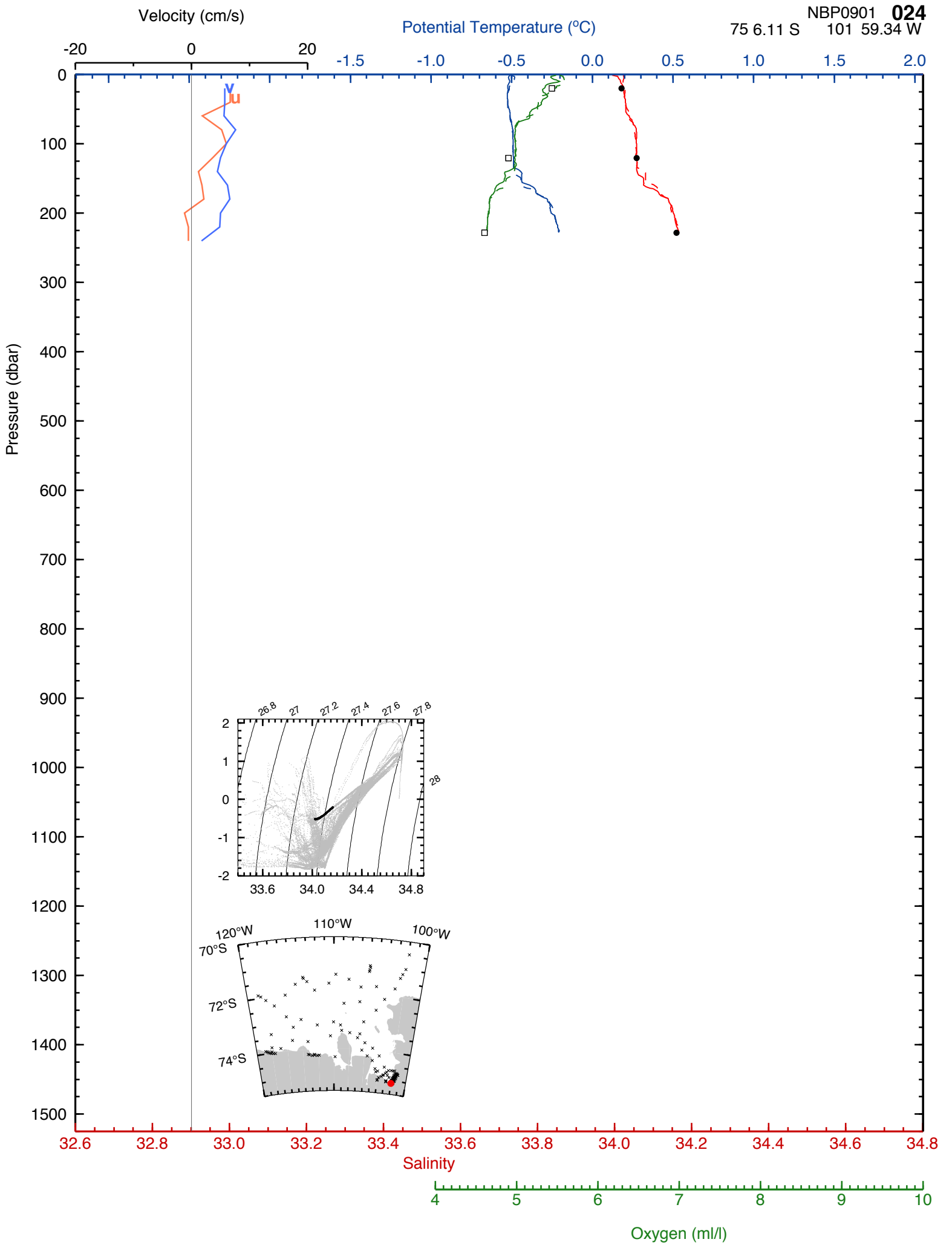
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.512	-0.512	1.355	1.355	34.023	5.49	238	92.8	27.341	1027.3	72.4	0.001	1445.5			1
25	-0.524	-0.525	1.361	1.342	34.027	5.33	231	93.4	27.346	1027.5	71.9	0.018	1445.8	0.088	50	25
50	-0.515	-0.516	1.390	1.352	34.033	5.20	226	93.7	27.350	1027.6	71.4	0.036	1446.3	0.074	35	50
75	-0.496	-0.498	1.429	1.372	34.050	4.99	217	94.2	27.363	1027.7	70.2	0.054	1446.8	0.082	30	74
100	-0.489	-0.492	1.454	1.379	34.056	4.99	217	94.3	27.367	1027.8	69.7	0.071	1447.2	0.085	44	99
125	-0.485	-0.488	1.478	1.384	34.059	4.97	216	94.4	27.370	1028.0	69.4	0.089	1447.7	0.059	33	124
150	-0.435	-0.439	1.548	1.435	34.081	4.85	211	94.7	27.385	1028.1	67.9	0.106	1448.3	0.054	15	148
175	-0.316	-0.321	1.688	1.557	34.126	4.69	204	94.9	27.416	1028.3	65.0	0.122	1449.3	0.068	17	173
200	-0.249	-0.255	1.775	1.625	34.149	4.66	203	94.8	27.432	1028.4	63.5	0.138	1450.1	0.053	309	198
225	-0.203	-0.211	1.841	1.672	34.166	4.64	202	94.9	27.443	1028.5	62.4	0.154	1450.7	0.045	353	222
228	-0.201	-0.209	1.845	1.673	34.166	4.63	201	95.0	27.443	1028.5	62.4	0.156	1450.8			225

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	024B	2009/01/19	03:37	-75.1018	-101.9887	228	32	258	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
20	-0.504	-0.505	34.021	27.340	5.49	239	34.018	5.43	236			5	20
121	-0.484	-0.488	34.060	27.370	4.97	216	34.057	4.90	213			3	119
228	-0.200	-0.208	34.166	27.443	4.63	201	34.161	4.61	200			1	226

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	024U	2009/01/19	03:46	-75.1015	-101.9910	228	32	258	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.508	-0.508	1.357	1.356	33.994	5.53	240	27.318	1027.3	74.6	0.001	1445.5	1
25	-0.521	-0.522	1.364	1.345	34.025	5.41	235	27.343	1027.5	72.2	0.018	1445.8	25
50	-0.524	-0.525	1.380	1.343	34.029	5.26	229	27.347	1027.6	71.7	0.036	1446.2	50
75	-0.491	-0.493	1.434	1.377	34.054	4.98	216	27.366	1027.7	69.9	0.054	1446.8	74
100	-0.489	-0.492	1.455	1.380	34.057	4.99	217	27.368	1027.8	69.6	0.071	1447.2	99
125	-0.486	-0.490	1.477	1.382	34.059	4.98	216	27.369	1028.0	69.4	0.089	1447.7	124
150	-0.439	-0.444	1.544	1.431	34.075	4.88	212	27.381	1028.1	68.3	0.106	1448.3	148
175	-0.318	-0.324	1.685	1.553	34.120	4.71	205	27.412	1028.2	65.4	0.123	1449.3	173
200	-0.232	-0.239	1.793	1.642	34.153	4.65	202	27.434	1028.4	63.3	0.139	1450.2	198
225	-0.199	-0.207	1.845	1.676	34.166	4.63	201	27.443	1028.5	62.4	0.155	1450.8	222
228	-0.201	-0.209	1.845	1.673	34.166	4.63	201	27.443	1028.5	62.4	0.156	1450.8	225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0
20
v
u
Potential Temperature (°C)
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-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 024
75 6.11 S
101 59.34 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**025D**	2009/01/19	04:15	-75.0808	-102.0208	444	11	450	3	4.1	135	-1.8	978.4

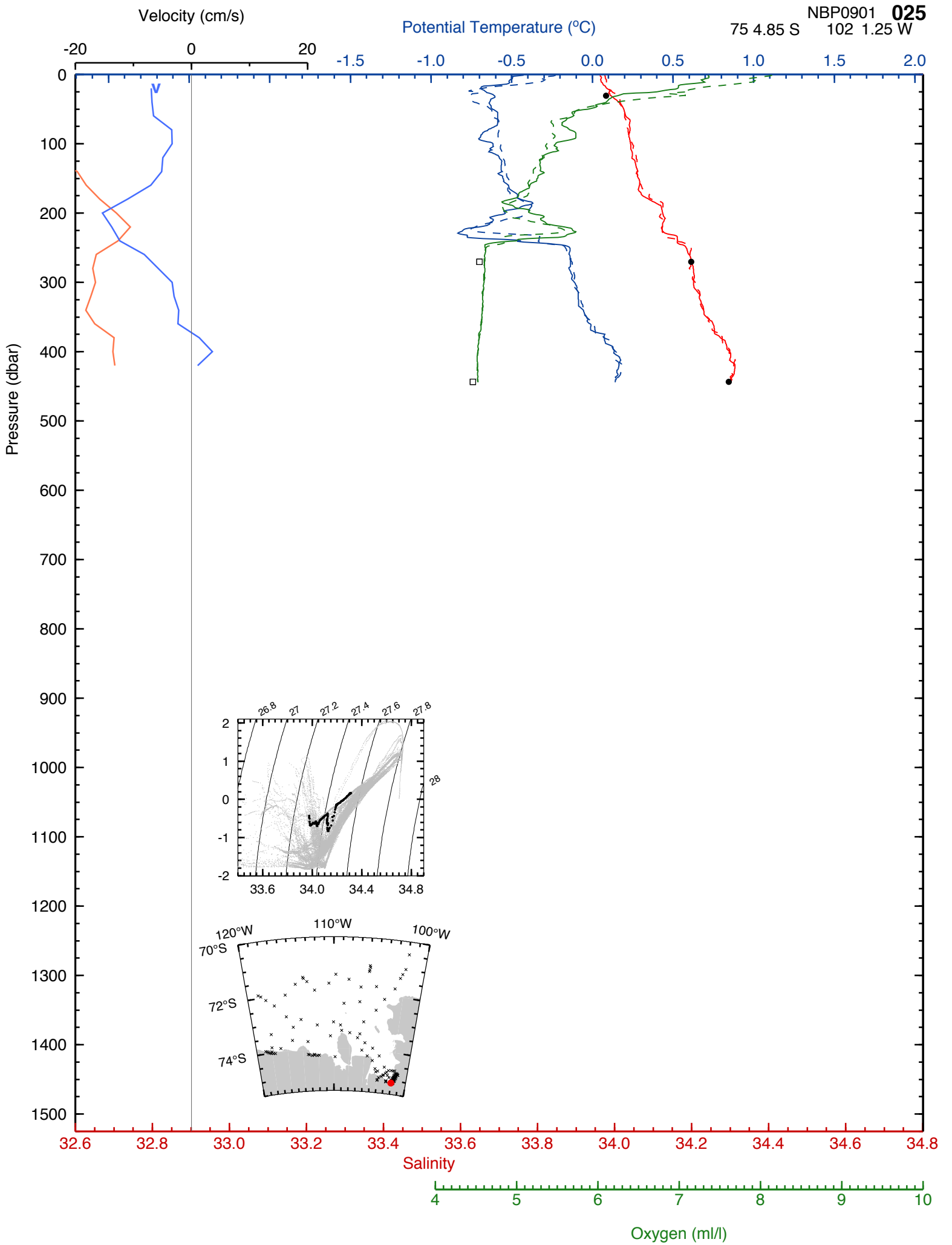
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.426	-0.426	1.438	1.438	33.975	7.36	320	85.3	27.299	1027.3	76.4	0.001	1445.8			1
25	-0.659	-0.660	1.224	1.206	33.994	6.72	292	89.0	27.325	1027.4	73.9	0.019	1445.1	0.249	254	25
50	-0.617	-0.618	1.287	1.250	34.021	5.87	255	92.1	27.345	1027.6	72.0	0.037	1445.8	0.252	255	50
75	-0.602	-0.604	1.321	1.265	34.034	5.58	243	93.0	27.354	1027.7	71.0	0.055	1446.3	0.263	261	74
100	-0.614	-0.617	1.329	1.254	34.047	5.48	238	93.2	27.365	1027.8	69.8	0.072	1446.6	0.253	263	99
125	-0.558	-0.561	1.405	1.311	34.058	5.29	230	93.6	27.373	1028.0	69.1	0.090	1447.3	0.231	258	124
150	-0.549	-0.554	1.432	1.319	34.061	5.25	228	93.8	27.374	1028.1	68.9	0.107	1447.8	0.199	253	148
175	-0.459	-0.464	1.543	1.412	34.090	5.03	218	94.2	27.394	1028.2	67.0	0.124	1448.6	0.193	240	173
200	-0.534	-0.540	1.489	1.338	34.122	5.16	224	95.3	27.423	1028.4	64.2	0.140	1448.7	0.199	222	198
225	-0.798	-0.805	1.243	1.074	34.124	5.69	247	95.8	27.436	1028.5	62.7	0.156	1447.9	0.173	219	222
250	-0.132	-0.141	1.932	1.744	34.199	4.62	201	94.8	27.466	1028.7	60.2	0.172	1451.5	0.179	232	247
275	-0.127	-0.137	1.957	1.750	34.198	4.61	200	94.8	27.466	1028.8	60.2	0.187	1452.0	0.181	248	272
300	-0.101	-0.112	2.002	1.776	34.209	4.60	200	94.8	27.473	1028.9	59.5	0.202	1452.5	0.170	257	297
325	-0.075	-0.087	2.047	1.802	34.222	4.58	199	94.7	27.483	1029.0	58.6	0.216	1453.0	0.176	260	321
350	-0.023	-0.036	2.119	1.856	34.241	4.57	199	94.8	27.495	1029.2	57.5	0.231	1453.7	0.179	263	346
375	0.092	0.078	2.256	1.973	34.281	4.53	197	94.9	27.522	1029.3	55.1	0.245	1454.7	0.150	269	371
400	0.149	0.134	2.333	2.031	34.298	4.52	197	95.0	27.532	1029.4	54.2	0.259	1455.4	0.139	283	395
425	0.175	0.158	2.377	2.057	34.306	4.52	196	95.1	27.538	1029.6	53.7	0.272	1455.9	0.132	275	420
444	0.158	0.140	2.375	2.040	34.299	4.52	197	95.1	27.533	1029.6	54.1	0.283	1456.2			439

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	025B	2009/01/19	04:29	-75.0806	-102.0205	444	11	450	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
31	-0.768	-0.769	33.998	27.332	6.67	290	33.978					5	30
271	-0.119	-0.129	34.201	27.467	4.61	200	34.199	4.54	197			3	268
444	0.159	0.141	34.299	27.533	4.53	197	34.297	4.46	194			1	438

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	025U	2009/01/19	04:43	-75.0803	-102.0198	444	11	450	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.227	-0.227	1.636	1.635	33.963	8.14	354	27.280	1027.3	78.2	0.001	1446.7	1
25	-0.720	-0.720	1.163	1.145	33.986	7.09	308	27.321	1027.4	74.3	0.019	1444.8	25
50	-0.629	-0.631	1.275	1.237	34.024	5.79	252	27.347	1027.6	71.7	0.037	1445.7	50
75	-0.581	-0.583	1.343	1.287	34.039	5.45	237	27.358	1027.7	70.7	0.055	1446.4	74
100	-0.567	-0.570	1.375	1.300	34.041	5.37	233	27.359	1027.8	70.4	0.073	1446.8	99
125	-0.541	-0.545	1.421	1.327	34.053	5.27	229	27.367	1028.0	69.6	0.090	1447.4	124
150	-0.518	-0.522	1.464	1.351	34.062	5.19	226	27.374	1028.1	68.9	0.108	1447.9	148
175	-0.490	-0.496	1.511	1.379	34.072	5.13	223	27.381	1028.2	68.2	0.125	1448.5	173
200	-0.411	-0.417	1.612	1.461	34.125	4.89	212	27.420	1028.4	64.5	0.141	1449.3	198
225	-0.745	-0.752	1.296	1.127	34.123	5.59	243	27.433	1028.5	63.0	0.157	1448.2	222
250	-0.158	-0.167	1.906	1.717	34.186	4.62	201	27.458	1028.6	61.0	0.173	1451.4	247
275	-0.114	-0.124	1.970	1.762	34.203	4.60	200	27.469	1028.8	60.0	0.188	1452.0	272
300	-0.104	-0.115	1.998	1.772	34.205	4.59	200	27.470	1028.9	59.9	0.203	1452.5	297
325	-0.062	-0.074	2.060	1.816	34.222	4.58	199	27.482	1029.0	58.7	0.218	1453.1	321
350	-0.024	-0.037	2.119	1.855	34.239	4.58	199	27.494	1029.2	57.7	0.232	1453.7	346
375	0.050	0.035	2.212	1.930	34.263	4.55	198	27.509	1029.3	56.2	0.246	1454.5	371
400	0.161	0.145	2.345	2.043	34.299	4.52	197	27.533	1029.4	54.1	0.260	1455.5	395
425	0.197	0.180	2.400	2.080	34.312	4.52	196	27.541	1029.6	53.4	0.274	1456.0	420
444	0.158	0.140	2.375	2.040	34.299	4.52	197	27.533	1029.6	54.1	0.284	1456.2	439


Velocity (cm/s)
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0
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Potential Temperature (°C)
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-1.0
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0.0
0.5
1.0
1.5
2.0
NBP0901 025
75 4.85 S
102 1.25 W
Pressure (dbar)
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100
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300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**026D**	2009/01/19	05:08	-75.0703	-102.0465	624	9	625	3	6.5	160	-2.7	978.7

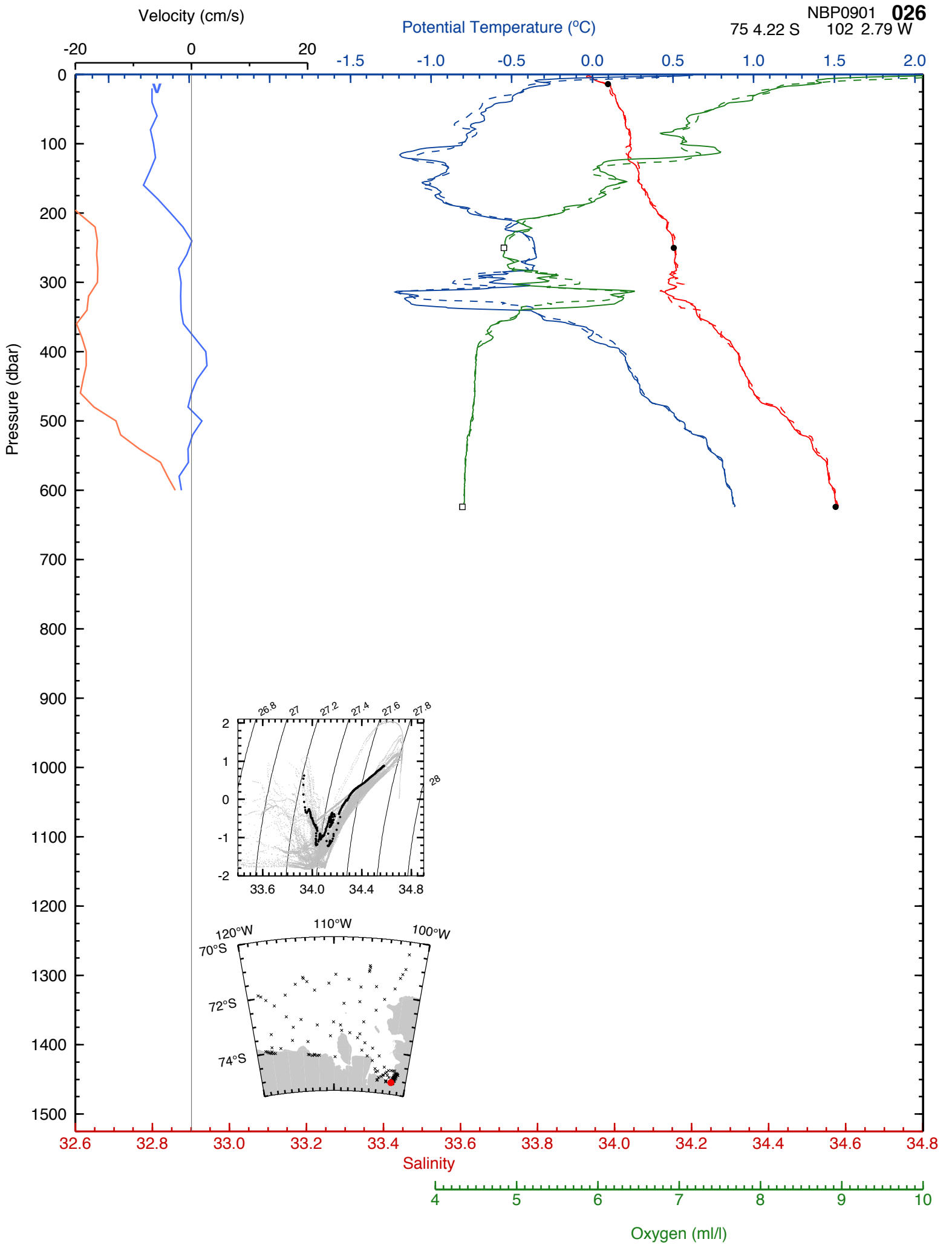
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.623	0.623	2.485	2.485	33.934	10.10	439	73.1	27.211	1027.2	84.8	0.001	1450.6			1
25	-0.441	-0.442	1.442	1.423	33.989	8.07	351	84.2	27.311	1027.4	75.3	0.020	1446.2	0.269	255	25
50	-0.661	-0.662	1.243	1.205	34.016	7.42	323	86.1	27.343	1027.6	72.1	0.038	1445.6	0.269	256	50
75	-0.752	-0.754	1.171	1.115	34.033	7.10	309	89.3	27.360	1027.7	70.4	0.056	1445.6	0.268	255	74
100	-0.806	-0.809	1.136	1.061	34.042	7.02	305	90.7	27.369	1027.8	69.4	0.073	1445.7	0.266	256	99
125	-0.960	-0.964	1.002	0.908	34.059	6.12	266	92.7	27.390	1028.0	67.3	0.091	1445.4	0.274	257	124
150	-0.979	-0.983	1.002	0.889	34.064	6.22	270	94.7	27.394	1028.1	66.9	0.107	1445.8	0.275	254	148
175	-0.972	-0.976	1.030	0.898	34.083	6.08	264	95.4	27.409	1028.2	65.3	0.124	1446.2	0.241	254	173
200	-0.757	-0.763	1.265	1.114	34.111	5.54	241	95.6	27.424	1028.4	64.0	0.140	1447.7	0.201	259	198
225	-0.512	-0.519	1.530	1.361	34.143	5.06	220	95.4	27.439	1028.5	62.6	0.156	1449.3	0.166	265	222
250	-0.348	-0.357	1.714	1.526	34.158	4.86	211	95.3	27.444	1028.6	62.2	0.171	1450.5	0.162	269	247
275	-0.366	-0.376	1.715	1.508	34.164	4.88	212	95.4	27.450	1028.8	61.6	0.187	1450.8	0.162	264	272
300	-0.630	-0.640	1.469	1.243	34.156	5.29	230	95.8	27.455	1028.9	60.8	0.202	1450.0	0.163	263	297
325	-1.148	-1.157	0.970	0.725	34.144	6.30	274	96.9	27.465	1029.0	59.3	0.217	1447.9	0.178	264	321
350	-0.300	-0.313	1.841	1.577	34.221	4.99	217	96.1	27.493	1029.2	57.4	0.232	1452.4	0.186	265	346
375	0.012	-0.002	2.175	1.893	34.277	4.66	203	95.7	27.522	1029.3	54.9	0.246	1454.3	0.193	269	371
400	0.188	0.172	2.372	2.071	34.316	4.51	196	94.7	27.545	1029.4	53.0	0.259	1455.6	0.184	276	395
425	0.242	0.225	2.446	2.126	34.332	4.50	195	94.4	27.555	1029.6	52.2	0.272	1456.3	0.183	278	420
450	0.312	0.293	2.536	2.197	34.357	4.49	195	94.7	27.571	1029.7	50.7	0.285	1457.0	0.188	272	445
475	0.404	0.384	2.650	2.292	34.395	4.47	194	95.3	27.597	1029.8	48.4	0.298	1457.9	0.180	269	469
500	0.569	0.547	2.837	2.460	34.459	4.43	193	96.1	27.639	1030.0	44.7	0.309	1459.2	0.142	275	494
550	0.793	0.768	3.103	2.689	34.539	4.38	190	96.2	27.689	1030.3	40.4	0.330	1461.1	0.084	266	543
600	0.890	0.862	3.240	2.788	34.572	4.36	189	96.3	27.711	1030.5	38.6	0.350	1462.4	0.038	240	593
624	0.910	0.880	3.278	2.808	34.578	4.36	189	96.6	27.714	1030.7	38.4	0.359	1462.9			616

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	026B	2009/01/19	05:25	-75.0703	-102.0469	624	9	625	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
14	-0.403	-0.404	33.988	27.309	8.20	357	33.983					5	14
250	-0.367	-0.376	34.159	27.445	4.89	213	34.154	4.84	211			3	248
624	0.914	0.884	34.580	27.715	4.35	189	34.573	4.33	188			1	616

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	026U	2009/01/19	05:43	-75.0703	-102.0474	624	9	625	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.506	0.506	2.368	2.367	33.933	10.12	440	27.217	1027.2	84.2	0.001	1450.0	1
25	-0.427	-0.428	1.456	1.437	33.994	8.07	351	27.315	1027.4	74.9	0.020	1446.2	25
50	-0.702	-0.704	1.201	1.163	34.015	7.42	323	27.344	1027.6	72.0	0.038	1445.4	50
75	-0.841	-0.843	1.082	1.025	34.029	7.15	311	27.360	1027.7	70.3	0.056	1445.2	74
100	-0.843	-0.846	1.100	1.024	34.040	7.00	304	27.369	1027.8	69.4	0.073	1445.6	99
125	-1.071	-1.075	0.890	0.796	34.039	6.94	302	27.377	1028.0	68.5	0.090	1444.9	124
150	-0.974	-0.978	1.007	0.894	34.063	6.12	266	27.393	1028.1	66.9	0.107	1445.8	148
175	-0.940	-0.945	1.061	0.930	34.086	6.00	261	27.411	1028.2	65.2	0.124	1446.4	173
200	-0.708	-0.714	1.314	1.163	34.112	5.48	238	27.423	1028.4	64.1	0.140	1447.9	198
225	-0.506	-0.513	1.536	1.367	34.139	5.15	224	27.435	1028.5	62.9	0.156	1449.3	222
250	-0.360	-0.368	1.702	1.514	34.156	4.87	212	27.443	1028.6	62.3	0.171	1450.4	247
275	-0.387	-0.397	1.694	1.487	34.159	4.95	215	27.447	1028.8	61.9	0.187	1450.7	272
300	-0.855	-0.863	1.244	1.018	34.140	5.78	251	27.451	1028.9	61.0	0.202	1448.9	297
325	-0.986	-0.995	1.134	0.889	34.170	6.13	267	27.480	1029.0	58.0	0.217	1448.7	321
350	-0.279	-0.291	1.862	1.599	34.218	4.97	216	27.490	1029.2	57.7	0.232	1452.5	346
375	0.037	0.022	2.200	1.918	34.275	4.63	201	27.520	1029.3	55.2	0.246	1454.5	371
400	0.205	0.189	2.389	2.088	34.317	4.50	196	27.545	1029.4	53.1	0.259	1455.7	395
425	0.255	0.238	2.459	2.139	34.332	4.49	195	27.555	1029.6	52.2	0.272	1456.3	420
450	0.302	0.284	2.526	2.187	34.349	4.49	195	27.565	1029.7	51.2	0.285	1457.0	445
475	0.403	0.383	2.647	2.290	34.387	4.48	195	27.591	1029.8	49.0	0.298	1457.9	469
500	0.560	0.538	2.828	2.451	34.453	4.45	193	27.635	1030.0	45.1	0.310	1459.1	494
550	0.785	0.759	3.095	2.680	34.531	4.39	191	27.684	1030.3	40.9	0.331	1461.1	543
600	0.888	0.859	3.237	2.785	34.568	4.36	189	27.707	1030.5	38.9	0.351	1462.4	593
624	0.910	0.880	3.278	2.808	34.578	4.36	189	27.714	1030.7	38.4	0.360	1462.9	616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Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 026
75 4.22 S
102 2.79 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**027D**	2009/01/19	06:09	-75.0562	-102.0684	756	8	755	3	5.0	154	-2.7	978.7

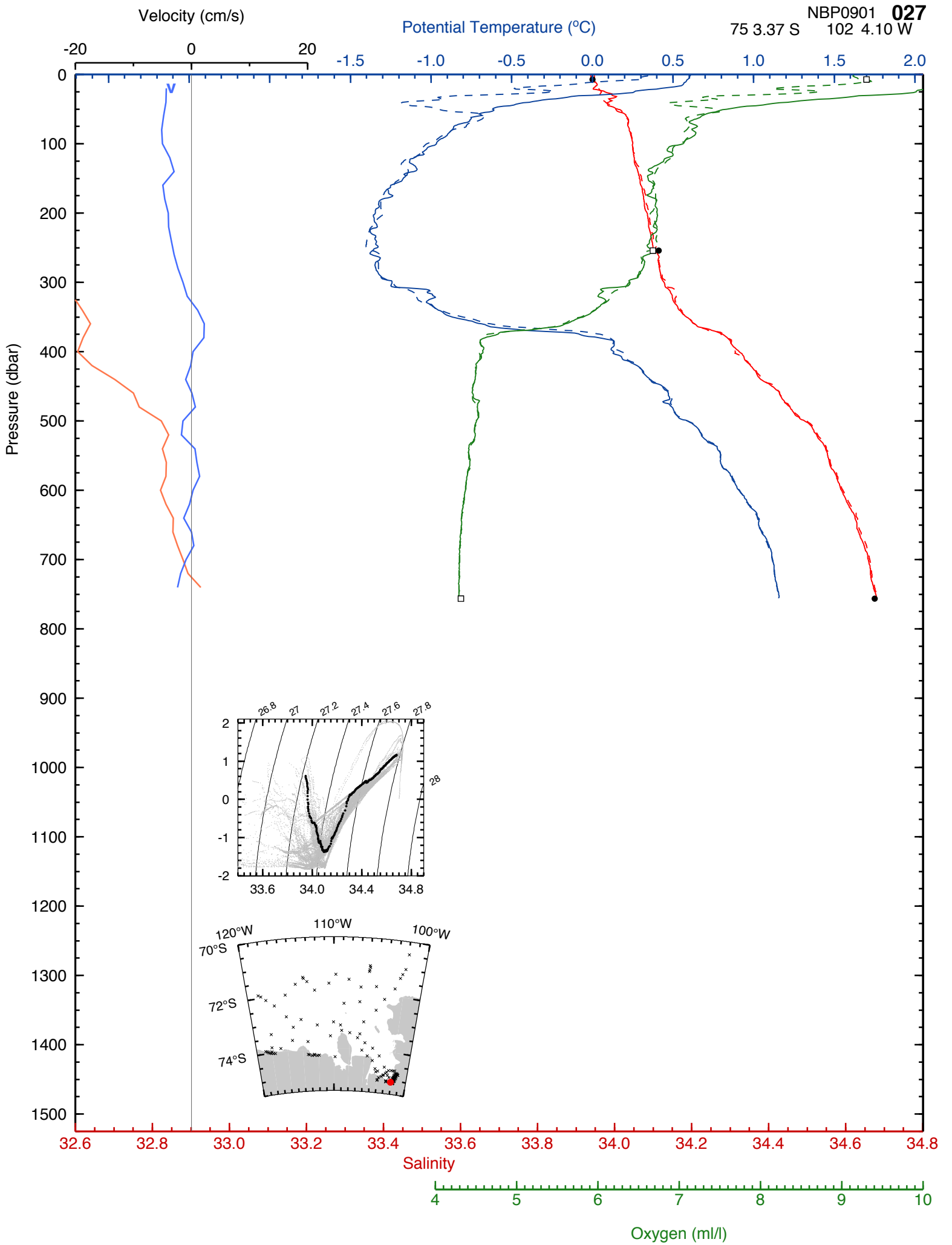
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.610	0.610	2.473	2.472	33.947	10.18	442	71.4	27.223	1027.2	83.7	0.001	1450.5			1
25	0.259	0.259	2.141	2.122	33.965	9.91	431	75.0	27.258	1027.4	80.4	0.021	1449.3	0.277	261	25
50	-0.616	-0.618	1.287	1.249	34.009	7.58	330	82.5	27.335	1027.6	72.9	0.040	1445.8	0.279	261	50
75	-0.856	-0.858	1.068	1.011	34.035	7.22	314	89.9	27.366	1027.7	69.8	0.058	1445.1	0.287	260	74
100	-0.965	-0.968	0.978	0.903	34.047	7.05	306	92.7	27.379	1027.9	68.4	0.075	1445.0	0.289	260	99
125	-1.130	-1.133	0.832	0.738	34.054	6.81	296	94.5	27.392	1028.0	67.1	0.092	1444.6	0.288	263	124
150	-1.169	-1.173	0.812	0.700	34.070	6.62	288	95.0	27.406	1028.1	65.6	0.108	1444.9	0.291	263	148
175	-1.234	-1.239	0.767	0.635	34.082	6.61	287	95.8	27.418	1028.3	64.3	0.125	1445.0	0.278	260	173
200	-1.342	-1.347	0.679	0.528	34.089	6.73	292	96.3	27.427	1028.4	63.3	0.141	1444.9	0.270	261	198
225	-1.373	-1.379	0.667	0.498	34.096	6.72	292	96.5	27.434	1028.5	62.5	0.156	1445.2	0.264	262	222
250	-1.331	-1.337	0.729	0.540	34.107	6.63	288	96.8	27.441	1028.6	61.7	0.172	1445.8	0.249	262	247
275	-1.341	-1.348	0.738	0.531	34.117	6.57	286	97.1	27.450	1028.8	60.8	0.187	1446.2	0.233	264	272
300	-1.234	-1.242	0.864	0.638	34.133	6.39	278	97.1	27.459	1028.9	59.9	0.202	1447.1	0.220	266	297
325	-1.006	-1.015	1.113	0.868	34.156	6.09	265	96.7	27.470	1029.0	58.9	0.217	1448.6	0.203	268	321
350	-0.856	-0.867	1.283	1.019	34.185	5.81	253	97.1	27.488	1029.2	57.4	0.232	1449.8	0.184	274	346
375	-0.066	-0.080	2.097	1.814	34.276	4.77	207	96.0	27.526	1029.3	54.5	0.246	1454.0	0.182	277	371
400	0.147	0.131	2.331	2.030	34.313	4.58	199	95.6	27.545	1029.4	53.0	0.259	1455.4	0.194	272	395
425	0.319	0.302	2.525	2.205	34.365	4.50	196	95.5	27.577	1029.6	50.1	0.272	1456.7	0.171	270	420
450	0.453	0.434	2.681	2.342	34.416	4.46	194	95.9	27.611	1029.7	47.2	0.284	1457.8	0.125	267	445
475	0.490	0.469	2.738	2.380	34.450	4.52	197	96.8	27.636	1029.9	44.9	0.296	1458.4	0.095	272	469
500	0.611	0.589	2.881	2.505	34.499	4.51	196	97.5	27.669	1030.0	42.0	0.307	1459.4	0.065	260	494
550	0.820	0.794	3.131	2.716	34.556	4.42	192	97.5	27.702	1030.3	39.3	0.327	1461.3	0.049	278	543
600	0.938	0.909	3.288	2.837	34.593	4.37	190	97.8	27.724	1030.5	37.4	0.346	1462.7	0.050	278	593
650	1.063	1.031	3.454	2.964	34.631	4.32	188	97.9	27.747	1030.8	35.7	0.364	1464.1	0.034	250	642
700	1.153	1.117	3.583	3.056	34.662	4.30	187	97.9	27.766	1031.1	34.2	0.382	1465.4	0.020	257	691
750	1.194	1.155	3.663	3.098	34.681	4.29	186	97.9	27.778	1031.3	33.3	0.398	1466.4	0.029	146	741
756	1.194	1.155	3.667	3.098	34.679	4.29	186	97.9	27.777	1031.3	33.4	0.400	1466.5			747

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	027B	2009/01/19	06:28	-75.0562	-102.0688	756	8	755	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
7	0.303	0.302	33.938	27.233	9.26	403	33.942	9.30	405			5	7
254	-1.356	-1.362	34.109	27.444	6.63	288	34.114	6.67	290			3	251
756	1.197	1.157	34.681	27.778	4.29	186	34.675	4.31	187			1	747

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	027U	2009/01/19	06:48	-75.0565	-102.0715	756	8	755	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.344	0.344	2.207	2.206	33.939	9.15	398	27.231	1027.2	82.9	0.001	1449.3	1
25	-0.259	-0.260	1.623	1.605	33.975	8.71	379	27.291	1027.4	77.1	0.020	1447.0	25
50	-0.959	-0.960	0.944	0.906	34.003	7.46	324	27.344	1027.6	72.0	0.038	1444.2	50
75	-0.781	-0.783	1.143	1.086	34.035	7.13	310	27.363	1027.7	70.1	0.056	1445.4	74
100	-1.025	-1.027	0.918	0.843	34.047	6.99	304	27.382	1027.9	68.2	0.073	1444.7	99
125	-1.166	-1.170	0.796	0.701	34.051	6.84	298	27.390	1028.0	67.2	0.090	1444.5	124
150	-1.182	-1.185	0.800	0.687	34.065	6.66	290	27.402	1028.1	66.0	0.107	1444.8	148
175	-1.297	-1.302	0.704	0.572	34.075	6.71	292	27.414	1028.3	64.7	0.123	1444.7	173
200	-1.286	-1.291	0.734	0.584	34.085	6.65	289	27.422	1028.4	63.8	0.139	1445.2	198
225	-1.377	-1.383	0.663	0.493	34.091	6.73	293	27.430	1028.5	62.9	0.155	1445.1	222
250	-1.396	-1.402	0.663	0.475	34.100	6.70	291	27.438	1028.6	62.0	0.171	1445.5	247
275	-1.321	-1.328	0.758	0.551	34.115	6.54	284	27.448	1028.8	61.0	0.186	1446.2	272
300	-1.230	-1.238	0.868	0.642	34.128	6.39	278	27.455	1028.9	60.2	0.201	1447.1	297
325	-1.072	-1.081	1.046	0.801	34.151	6.13	267	27.469	1029.0	59.0	0.216	1448.3	321
350	-0.787	-0.798	1.352	1.089	34.187	5.79	252	27.487	1029.2	57.5	0.231	1450.1	346
375	0.064	0.049	2.227	1.945	34.280	4.64	202	27.523	1029.3	55.0	0.245	1454.6	371
400	0.195	0.179	2.380	2.078	34.324	4.56	198	27.551	1029.4	52.5	0.258	1455.7	395
425	0.319	0.302	2.525	2.205	34.360	4.50	196	27.573	1029.6	50.5	0.271	1456.7	420
450	0.452	0.433	2.679	2.340	34.409	4.46	194	27.605	1029.7	47.7	0.283	1457.8	445
475	0.506	0.485	2.754	2.396	34.445	4.50	195	27.631	1029.9	45.3	0.295	1458.5	469
500	0.614	0.591	2.883	2.507	34.494	4.51	196	27.664	1030.0	42.4	0.306	1459.4	494
550	0.820	0.794	3.131	2.717	34.553	4.41	192	27.700	1030.3	39.4	0.326	1461.3	543
600	0.941	0.912	3.291	2.839	34.589	4.37	190	27.721	1030.5	37.7	0.346	1462.7	593
650	1.068	1.036	3.459	2.969	34.629	4.32	188	27.745	1030.8	35.9	0.364	1464.1	642
700	1.151	1.115	3.581	3.053	34.658	4.30	187	27.763	1031.0	34.4	0.382	1465.3	691
750	1.194	1.155	3.662	3.098	34.678	4.29	186	27.776	1031.3	33.4	0.399	1466.4	741
756	1.194	1.155	3.667	3.098	34.679	4.29	186	27.777	1031.3	33.4	0.401	1466.5	747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2.0
NBP0901 027
75 3.37 S
102 4.10 W
Pressure (dbar)
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100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
V
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**028D**	2009/01/19	07:23	-75.0377	-102.0332	911	8	907	3	5.1	155	-2.0	978.7

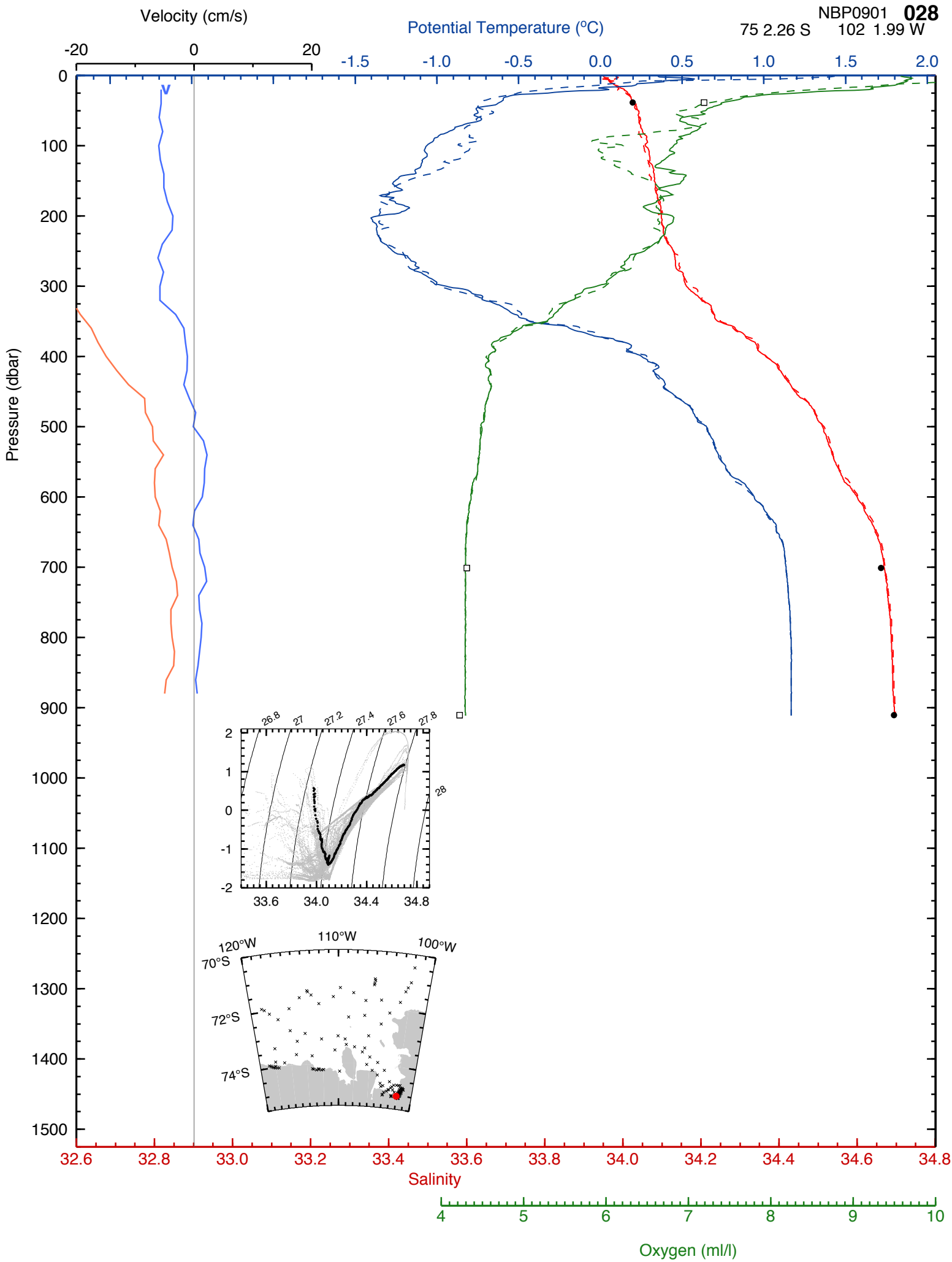
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.351	0.351	2.216	2.215	33.981	9.57	416	76.9	27.265	1027.3	79.6	0.001	1449.4			1
25	-0.321	-0.322	1.563	1.544	34.008	8.30	361	78.7	27.321	1027.4	74.3	0.020	1446.7	0.325	260	25
50	-0.752	-0.754	1.152	1.115	34.036	7.21	313	90.0	27.363	1027.6	70.2	0.038	1445.2	0.324	260	50
75	-0.888	-0.890	1.036	0.979	34.041	7.14	310	91.6	27.372	1027.7	69.2	0.055	1444.9	0.321	260	74
100	-1.061	-1.063	0.883	0.807	34.053	6.82	296	95.0	27.388	1027.9	67.6	0.072	1444.5	0.323	259	99
125	-1.092	-1.095	0.871	0.777	34.066	6.65	289	94.8	27.400	1028.0	66.4	0.089	1444.8	0.310	260	124
150	-1.254	-1.258	0.728	0.615	34.074	6.92	301	92.6	27.412	1028.1	65.0	0.105	1444.5	0.302	260	148
175	-1.261	-1.266	0.741	0.609	34.089	6.67	290	94.5	27.424	1028.3	63.7	0.121	1444.9	0.285	261	173
200	-1.358	-1.363	0.663	0.512	34.091	6.80	296	95.5	27.430	1028.4	63.0	0.137	1444.8	0.272	262	198
225	-1.360	-1.365	0.681	0.511	34.107	6.72	292	95.8	27.442	1028.5	61.7	0.153	1445.2	0.283	262	222
250	-1.262	-1.269	0.798	0.610	34.130	6.46	281	96.8	27.457	1028.7	60.2	0.168	1446.1	0.260	257	247
275	-1.112	-1.120	0.968	0.761	34.145	6.22	270	97.1	27.465	1028.8	59.5	0.183	1447.3	0.230	256	272
300	-0.933	-0.942	1.167	0.942	34.175	5.89	256	97.2	27.482	1028.9	58.0	0.198	1448.6	0.236	256	297
325	-0.633	-0.643	1.489	1.244	34.214	5.50	239	97.2	27.502	1029.1	56.3	0.212	1450.4	0.216	255	321
350	-0.422	-0.434	1.721	1.457	34.251	5.27	229	97.1	27.523	1029.2	54.5	0.226	1451.9	0.189	262	346
375	0.094	0.080	2.260	1.978	34.330	4.71	205	96.9	27.561	1029.3	51.4	0.239	1454.8	0.170	265	371
400	0.269	0.253	2.456	2.155	34.366	4.58	199	96.4	27.581	1029.5	49.7	0.252	1456.0	0.152	266	395
425	0.359	0.342	2.568	2.248	34.412	4.60	200	97.0	27.613	1029.6	46.8	0.264	1456.9	0.132	265	420
450	0.442	0.423	2.671	2.333	34.447	4.59	199	97.4	27.637	1029.8	44.7	0.275	1457.8	0.105	262	445
475	0.579	0.558	2.829	2.472	34.489	4.53	197	97.6	27.662	1029.9	42.5	0.286	1458.8	0.084	268	469
500	0.672	0.649	2.943	2.567	34.516	4.49	195	97.6	27.678	1030.0	41.2	0.296	1459.7	0.075	270	494
550	0.770	0.744	3.080	2.666	34.547	4.45	194	97.8	27.698	1030.3	39.6	0.317	1461.0	0.058	292	543
600	0.970	0.940	3.321	2.869	34.603	4.36	190	97.9	27.730	1030.6	37.0	0.336	1462.8	0.068	283	593
650	1.112	1.080	3.504	3.014	34.650	4.31	187	97.9	27.759	1030.8	34.6	0.354	1464.3	0.059	269	642
700	1.170	1.135	3.601	3.074	34.672	4.29	187	97.9	27.773	1031.1	33.6	0.371	1465.5	0.042	290	691
750	1.192	1.153	3.661	3.096	34.683	4.29	187	97.9	27.780	1031.3	33.1	0.387	1466.4	0.029	286	741
800	1.207	1.165	3.714	3.111	34.690	4.29	186	97.9	27.785	1031.5	32.8	0.404	1467.3	0.040	288	790
850	1.212	1.167	3.757	3.117	34.694	4.29	186	97.8	27.788	1031.8	32.7	0.420	1468.2	0.036	281	839
900	1.214	1.166	3.797	3.119	34.698	4.29	186	97.8	27.791	1032.0	32.5	0.436	1469.0			888
911	1.215	1.166	3.806	3.120	34.697	4.29	187	97.7	27.791	1032.1	32.6	0.440	1469.2			899

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	028B	2009/01/19	07:45	-75.0382	-102.0313	910	8	907	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
39	-0.733	-0.734	34.026	27.353	7.29	317		34.025	7.19	313			5	38
701	1.173	1.137	34.671	27.772	4.29	187		34.661	4.31	187			3	692
910	1.215	1.166	34.697	27.791	4.30	187		34.695	4.22	184			1	899

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	028U	2009/01/19	08:12	-75.0375	-102.0301	910	8	907	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	1.433	1.433	3.296	3.296	33.950	10.40	452	27.172	1027.2	88.5	0.001	1454.2	1
25	-0.508	-0.509	1.376	1.357	34.012	7.98	347	27.333	1027.5	73.2	0.020	1445.9	25
50	-0.682	-0.683	1.223	1.185	34.039	6.91	300	27.362	1027.6	70.3	0.038	1445.5	50
75	-0.827	-0.829	1.097	1.041	34.047	7.01	305	27.374	1027.7	69.1	0.055	1445.2	74
100	-0.857	-0.860	1.086	1.011	34.057	6.20	270	27.384	1027.9	68.0	0.072	1445.5	99
125	-0.921	-0.924	1.042	0.948	34.071	6.17	268	27.398	1028.0	66.6	0.089	1445.6	124
150	-1.177	-1.181	0.805	0.692	34.081	6.54	284	27.415	1028.1	64.8	0.105	1444.8	148
175	-1.335	-1.339	0.667	0.535	34.089	6.69	291	27.427	1028.3	63.4	0.121	1444.5	173
200	-1.351	-1.355	0.671	0.520	34.099	6.65	289	27.435	1028.4	62.5	0.137	1444.9	198
225	-1.358	-1.364	0.682	0.513	34.104	6.69	291	27.440	1028.5	61.9	0.153	1445.2	222
250	-1.215	-1.222	0.845	0.657	34.130	6.41	278	27.456	1028.7	60.4	0.168	1446.4	247
275	-1.155	-1.162	0.925	0.718	34.137	6.30	274	27.460	1028.8	60.0	0.183	1447.1	272
300	-0.974	-0.983	1.126	0.900	34.163	5.99	260	27.474	1028.9	58.7	0.198	1448.4	297
325	-0.546	-0.556	1.576	1.332	34.220	5.44	236	27.503	1029.1	56.3	0.212	1450.8	321
350	-0.407	-0.419	1.736	1.472	34.245	5.29	230	27.517	1029.2	55.1	0.226	1451.9	346
375	0.063	0.049	2.229	1.946	34.321	4.77	207	27.556	1029.3	51.9	0.239	1454.6	371
400	0.300	0.284	2.488	2.186	34.368	4.55	198	27.581	1029.5	49.8	0.252	1456.2	395
425	0.352	0.334	2.560	2.240	34.409	4.60	200	27.611	1029.6	47.0	0.264	1456.9	420
450	0.440	0.421	2.669	2.331	34.441	4.59	199	27.632	1029.8	45.2	0.276	1457.7	445
475	0.584	0.563	2.835	2.477	34.487	4.53	197	27.661	1029.9	42.7	0.287	1458.9	469
500	0.673	0.651	2.944	2.568	34.512	4.48	195	27.675	1030.0	41.5	0.297	1459.7	494
550	0.771	0.745	3.081	2.667	34.544	4.45	194	27.695	1030.3	39.8	0.318	1461.0	543
600	0.969	0.940	3.320	2.868	34.600	4.36	190	27.728	1030.6	37.1	0.337	1462.8	593
650	1.110	1.077	3.502	3.012	34.647	4.31	187	27.756	1030.8	34.9	0.355	1464.3	642
700	1.170	1.134	3.601	3.073	34.669	4.29	187	27.771	1031.1	33.8	0.372	1465.5	691
750	1.193	1.154	3.662	3.097	34.680	4.29	187	27.778	1031.3	33.3	0.389	1466.4	741
800	1.208	1.166	3.715	3.112	34.687	4.29	187	27.783	1031.5	33.0	0.405	1467.3	790
850	1.212	1.167	3.757	3.117	34.691	4.29	187	27.786	1031.8	32.9	0.422	1468.1	839
900	1.214	1.166	3.797	3.119	34.695	4.29	187	27.789	1032.0	32.7	0.438	1469.0	888
911	1.215	1.166	3.806	3.120	34.697	4.29	187	27.791	1032.1	32.6	0.442	1469.2	899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20
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Potential Temperature (°C)
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-1.0
-0.5
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0.5
1.0
1.5
2.0
NBP0901 028
75 2.26 S
102 1.99 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**029D**	2009/01/19	08:43	-75.0208	-101.9831	920	9	917	3	6.9	161	-2.3	978.4

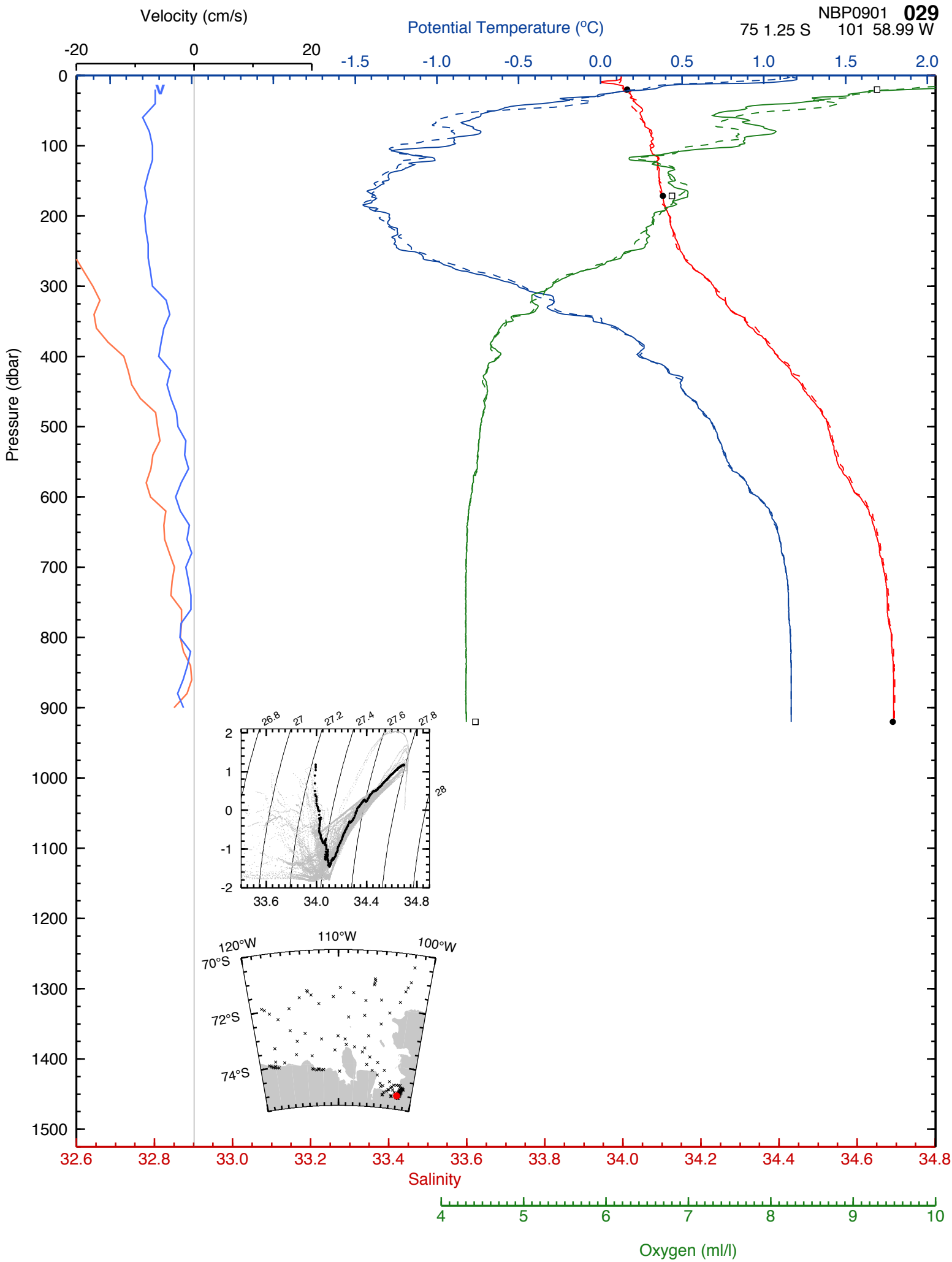
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	1.177	1.177	3.042	3.042	33.995	10.12	440	78.7	27.226	1027.2	83.4	0.001	1453.2			1
25	0.064	0.063	1.948	1.929	34.011	9.05	393	76.6	27.305	1027.4	75.9	0.020	1448.5	0.289	257	25
50	-0.643	-0.644	1.262	1.224	34.033	7.55	328	83.7	27.356	1027.6	70.9	0.038	1445.7	0.301	255	50
75	-0.777	-0.779	1.149	1.092	34.068	7.92	344	84.6	27.389	1027.7	67.6	0.056	1445.5	0.308	255	74
100	-0.920	-0.923	1.025	0.949	34.080	7.62	331	87.3	27.405	1027.9	66.0	0.072	1445.2	0.287	256	99
125	-1.169	-1.172	0.795	0.701	34.086	6.57	286	94.1	27.419	1028.0	64.5	0.089	1444.5	0.277	255	124
150	-1.314	-1.317	0.669	0.556	34.092	6.83	297	94.9	27.429	1028.1	63.4	0.105	1444.2	0.281	253	148
175	-1.366	-1.371	0.636	0.505	34.103	6.93	301	94.7	27.439	1028.3	62.3	0.120	1444.4	0.270	252	173
200	-1.289	-1.294	0.733	0.583	34.119	6.58	286	95.2	27.450	1028.4	61.2	0.136	1445.2	0.261	251	198
225	-1.234	-1.240	0.808	0.639	34.130	6.49	282	95.8	27.456	1028.5	60.5	0.151	1445.9	0.243	250	222
250	-1.166	-1.172	0.896	0.708	34.152	6.27	272	96.4	27.472	1028.7	58.9	0.166	1446.6	0.224	250	247
275	-0.886	-0.894	1.196	0.989	34.180	5.84	254	96.7	27.485	1028.8	57.8	0.181	1448.4	0.207	249	272
300	-0.494	-0.504	1.610	1.384	34.232	5.35	232	96.4	27.510	1028.9	55.7	0.195	1450.7	0.189	248	297
325	-0.280	-0.292	1.845	1.600	34.264	5.13	223	96.6	27.527	1029.1	54.3	0.208	1452.2	0.168	254	321
350	-0.028	-0.041	2.119	1.855	34.314	4.85	211	96.9	27.555	1029.2	51.9	0.222	1453.8	0.175	255	346
375	0.228	0.213	2.396	2.113	34.366	4.63	201	96.8	27.583	1029.4	49.5	0.234	1455.4	0.164	251	371
400	0.253	0.236	2.442	2.140	34.398	4.70	204	97.1	27.607	1029.5	47.2	0.246	1456.0	0.138	245	395
425	0.451	0.433	2.661	2.341	34.439	4.53	197	97.0	27.629	1029.6	45.4	0.258	1457.4	0.119	250	420
450	0.531	0.511	2.762	2.423	34.474	4.56	198	97.4	27.653	1029.8	43.3	0.269	1458.2	0.112	247	445
475	0.629	0.608	2.881	2.523	34.507	4.52	197	97.6	27.674	1029.9	41.5	0.280	1459.1	0.086	246	469
500	0.719	0.697	2.991	2.615	34.530	4.48	195	97.7	27.687	1030.0	40.4	0.290	1460.0	0.069	246	494
550	0.804	0.778	3.115	2.701	34.555	4.44	193	97.8	27.702	1030.3	39.2	0.310	1461.2	0.072	258	543
600	0.994	0.965	3.346	2.894	34.613	4.36	190	97.8	27.736	1030.6	36.4	0.329	1462.9	0.082	250	593
650	1.117	1.084	3.509	3.019	34.651	4.32	188	97.9	27.759	1030.8	34.6	0.346	1464.4	0.052	261	642
700	1.166	1.131	3.597	3.070	34.669	4.30	187	97.9	27.771	1031.1	33.8	0.364	1465.4	0.039	255	691
750	1.190	1.151	3.658	3.094	34.681	4.30	187	97.9	27.779	1031.3	33.2	0.380	1466.4	0.038	262	741
800	1.204	1.162	3.711	3.109	34.690	4.30	187	97.9	27.785	1031.5	32.8	0.397	1467.3	0.032	224	790
850	1.211	1.166	3.756	3.116	34.696	4.30	187	97.8	27.790	1031.8	32.5	0.413	1468.2	0.013	210	839
900	1.214	1.166	3.797	3.119	34.696	4.30	187	97.8	27.790	1032.0	32.7	0.429	1469.0	0.033	220	888
920	1.215	1.166	3.813	3.120	34.695	4.30	187	97.8	27.789	1032.1	32.8	0.436	1469.3			908

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	029B	2009/01/19	09:07	-75.0204	-101.9823	920	9	917	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
20	0.199	0.199	34.011	27.298	9.29	404		34.011	9.29	404			5	20
171	-1.373	-1.377	34.104	27.440	6.85	298		34.103	6.80	296			3	170
920	1.215	1.166	34.695	27.789	4.30	187		34.691	4.42	192			1	908

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	029U	2009/01/19	09:29	-75.0199	-101.9811	920	9	917	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	1.144	1.144	3.009	3.008	33.995	10.19	443	27.228	1027.2	83.2	0.001	1453.0	1
25	0.068	0.068	1.953	1.934	34.016	9.17	399	27.309	1027.4	75.5	0.020	1448.5	25
50	-0.640	-0.641	1.266	1.228	34.050	8.13	353	27.369	1027.6	69.6	0.038	1445.7	50
75	-0.906	-0.908	1.019	0.963	34.064	7.49	325	27.391	1027.8	67.4	0.055	1444.9	74
100	-1.251	-1.254	0.693	0.618	34.070	7.12	309	27.408	1027.9	65.6	0.072	1443.7	99
125	-1.208	-1.211	0.756	0.662	34.089	6.64	288	27.423	1028.0	64.1	0.088	1444.3	124
150	-1.347	-1.350	0.637	0.524	34.094	6.82	296	27.431	1028.2	63.2	0.104	1444.1	148
175	-1.373	-1.378	0.629	0.497	34.103	6.83	297	27.440	1028.3	62.2	0.120	1444.3	173
200	-1.342	-1.347	0.681	0.530	34.119	6.64	289	27.451	1028.4	61.0	0.135	1444.9	198
225	-1.213	-1.219	0.829	0.660	34.132	6.42	279	27.458	1028.5	60.3	0.150	1446.0	222
250	-1.134	-1.141	0.928	0.739	34.147	6.30	274	27.467	1028.7	59.4	0.165	1446.8	247
275	-0.825	-0.833	1.257	1.050	34.182	5.80	252	27.484	1028.8	58.0	0.180	1448.7	272
300	-0.465	-0.475	1.639	1.413	34.232	5.31	231	27.509	1028.9	55.8	0.194	1450.8	297
325	-0.279	-0.290	1.846	1.601	34.265	5.09	221	27.527	1029.1	54.3	0.208	1452.2	321
350	0.020	0.007	2.166	1.903	34.315	4.79	208	27.553	1029.2	52.1	0.221	1454.0	346
375	0.232	0.217	2.400	2.118	34.363	4.63	201	27.580	1029.4	49.7	0.234	1455.5	371
400	0.267	0.251	2.456	2.155	34.396	4.70	204	27.605	1029.5	47.4	0.246	1456.1	395
425	0.444	0.426	2.654	2.334	34.432	4.55	198	27.624	1029.6	45.9	0.258	1457.3	420
450	0.528	0.508	2.758	2.420	34.468	4.55	198	27.648	1029.8	43.8	0.269	1458.2	445
475	0.636	0.615	2.888	2.530	34.505	4.52	196	27.672	1029.9	41.7	0.280	1459.1	469
500	0.713	0.690	2.985	2.608	34.525	4.48	194	27.683	1030.0	40.7	0.290	1459.9	494
550	0.797	0.771	3.108	2.694	34.549	4.44	193	27.698	1030.3	39.6	0.310	1461.2	543
600	0.994	0.964	3.345	2.893	34.607	4.36	189	27.732	1030.6	36.8	0.329	1462.9	593
650	1.118	1.085	3.509	3.020	34.647	4.32	188	27.756	1030.8	34.9	0.347	1464.4	642
700	1.168	1.132	3.598	3.071	34.667	4.30	187	27.769	1031.1	34.0	0.364	1465.4	691
750	1.189	1.150	3.658	3.093	34.677	4.30	187	27.776	1031.3	33.5	0.381	1466.4	741
800	1.205	1.163	3.712	3.109	34.687	4.30	187	27.783	1031.5	33.0	0.398	1467.3	790
850	1.211	1.166	3.756	3.116	34.693	4.30	187	27.788	1031.8	32.7	0.414	1468.1	839
900	1.214	1.166	3.797	3.119	34.693	4.30	187	27.788	1032.0	32.9	0.431	1469.0	888
920	1.215	1.166	3.813	3.120	34.695	4.30	187	27.789	1032.1	32.8	0.437	1469.3	908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Potential Temperature (°C)
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2.0
NBP0901 029
75 1.25 S
101 58.99 W
Pressure (dbar)
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100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
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-1
-2
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34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**030D**	2009/01/19	09:58	-75.0014	-101.9373	951	7	946	3	6.2	162	-2.2	978.4

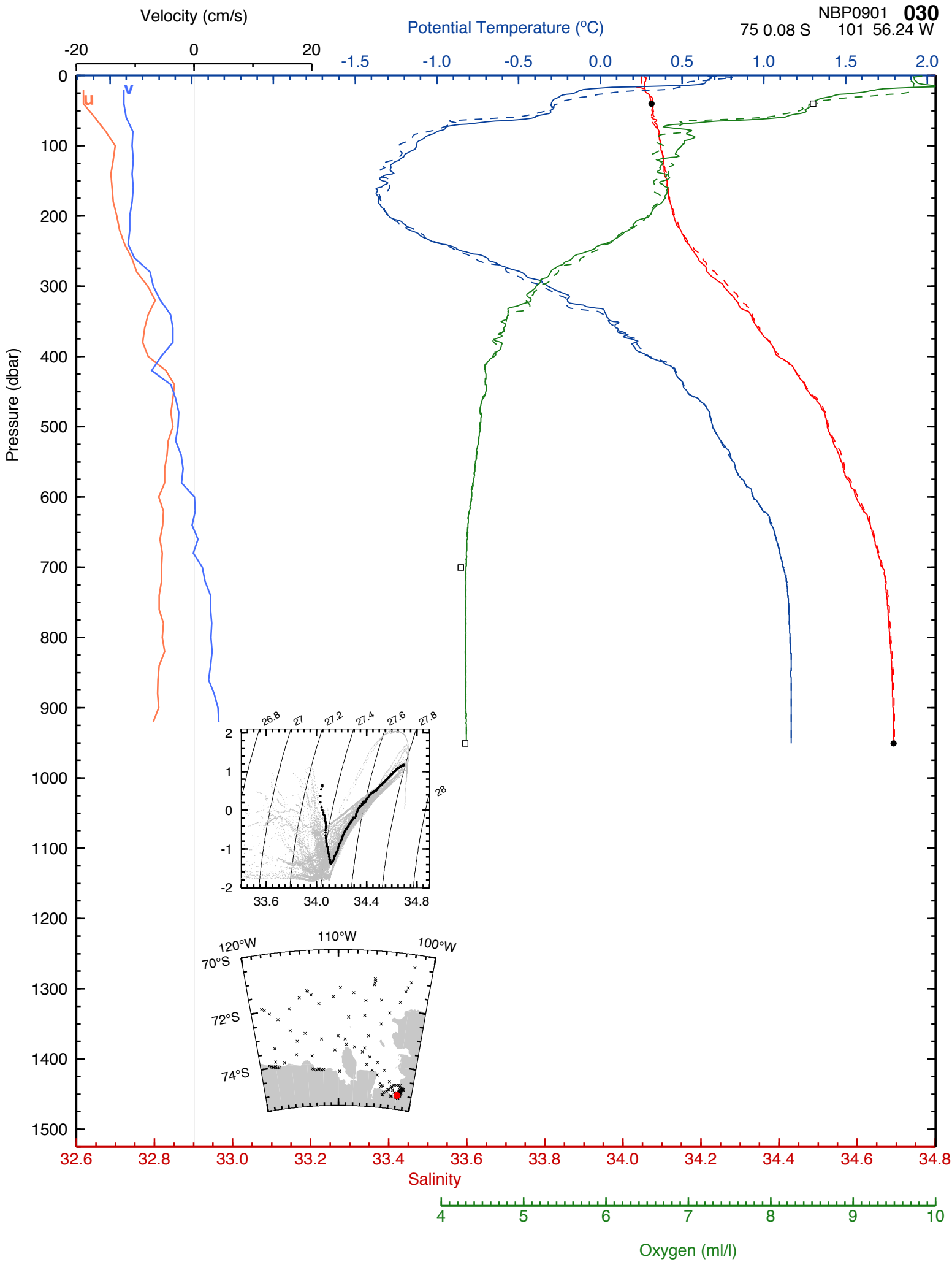
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.655	0.655	2.524	2.523	34.047	9.73	423	80.1	27.301	1027.3	76.3	0.001	1450.9			1
25	-0.160	-0.161	1.728	1.709	34.066	9.02	392	70.7	27.360	1027.5	70.6	0.019	1447.6	0.222	238	25
50	-0.305	-0.306	1.602	1.565	34.075	8.42	366	78.1	27.374	1027.6	69.2	0.036	1447.3	0.213	237	50
75	-0.946	-0.948	0.981	0.924	34.087	6.81	296	84.5	27.411	1027.8	65.5	0.053	1444.7	0.189	235	74
100	-1.123	-1.125	0.823	0.748	34.099	6.92	301	88.7	27.428	1027.9	63.8	0.069	1444.3	0.171	232	99
125	-1.267	-1.270	0.698	0.604	34.104	6.68	291	92.2	27.437	1028.0	62.8	0.085	1444.0	0.172	233	124
150	-1.325	-1.328	0.660	0.547	34.114	6.69	291	94.3	27.447	1028.2	61.7	0.101	1444.2	0.175	233	148
175	-1.355	-1.359	0.649	0.517	34.117	6.72	292	94.5	27.450	1028.3	61.2	0.116	1444.5	0.173	233	173
200	-1.290	-1.295	0.733	0.582	34.133	6.53	284	95.4	27.461	1028.4	60.1	0.131	1445.2	0.170	230	198
225	-1.108	-1.114	0.936	0.766	34.155	6.21	270	96.1	27.472	1028.6	59.0	0.146	1446.5	0.167	229	222
250	-0.835	-0.843	1.229	1.041	34.189	5.79	252	96.8	27.490	1028.7	57.5	0.161	1448.2	0.157	226	247
275	-0.548	-0.557	1.537	1.330	34.224	5.37	233	96.2	27.506	1028.8	56.1	0.175	1450.0	0.132	230	272
300	-0.311	-0.321	1.796	1.570	34.270	5.15	224	96.9	27.533	1029.0	53.7	0.189	1451.6	0.108	229	297
325	-0.148	-0.160	1.979	1.735	34.312	4.98	217	97.2	27.559	1029.1	51.4	0.202	1452.8	0.087	230	321
350	0.094	0.081	2.242	1.979	34.343	4.73	206	97.0	27.572	1029.2	50.4	0.214	1454.4	0.089	244	346
375	0.200	0.185	2.368	2.086	34.369	4.66	202	97.0	27.587	1029.4	49.1	0.227	1455.3	0.093	247	371
400	0.315	0.299	2.505	2.203	34.403	4.63	201	97.1	27.608	1029.5	47.2	0.239	1456.3	0.096	237	395
425	0.479	0.461	2.690	2.370	34.446	4.54	197	97.2	27.634	1029.6	45.0	0.250	1457.5	0.087	214	420
450	0.551	0.532	2.783	2.444	34.481	4.54	197	97.5	27.657	1029.8	42.9	0.261	1458.3	0.050	222	445
475	0.675	0.654	2.927	2.570	34.514	4.47	194	97.6	27.677	1029.9	41.3	0.272	1459.3	0.048	233	469
500	0.709	0.687	2.981	2.605	34.527	4.47	194	97.7	27.685	1030.0	40.6	0.282	1459.9	0.046	234	494
550	0.841	0.815	3.152	2.738	34.565	4.41	192	97.8	27.708	1030.3	38.7	0.302	1461.4	0.051	245	543
600	0.963	0.934	3.315	2.863	34.602	4.37	190	97.8	27.729	1030.6	37.0	0.321	1462.8	0.058	262	593
650	1.096	1.064	3.487	2.998	34.642	4.32	188	97.9	27.754	1030.8	35.1	0.339	1464.3	0.053	268	642
700	1.152	1.117	3.582	3.055	34.665	4.30	187	97.9	27.768	1031.1	34.0	0.356	1465.4	0.056	278	691
750	1.189	1.151	3.658	3.093	34.681	4.30	187	97.9	27.779	1031.3	33.2	0.373	1466.4	0.065	295	741
800	1.201	1.159	3.708	3.105	34.687	4.30	187	97.9	27.783	1031.5	33.0	0.389	1467.3	0.060	299	790
850	1.210	1.165	3.754	3.114	34.692	4.30	187	97.8	27.787	1031.8	32.8	0.406	1468.1	0.065	296	839
900	1.215	1.167	3.798	3.120	34.695	4.30	187	97.8	27.789	1032.0	32.7	0.422	1469.0	0.072	301	888
950	1.217	1.166	3.837	3.122	34.696	4.30	187	97.9	27.790	1032.2	32.8	0.439	1469.8			938
951	1.217	1.166	3.838	3.122	34.696	4.30	187	97.8	27.790	1032.2	32.9	0.439	1469.8			939

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	030B	2009/01/19	10:23	-75.0009	-101.9360	951	7	946	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
40	-0.236	-0.237	34.077	27.373	8.55	372	34.073	8.52	370			5	40
700	1.156	1.120	34.664	27.768	4.30	187		4.24	184			3	692
951	1.217	1.166	34.696	27.790	4.30	187	34.693	4.29	186			1	938

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	030U	2009/01/19	10:46	-75.0014	-101.9371	951	7	946	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.666	0.666	2.535	2.534	34.055	9.84	428	27.307	1027.3	75.7	0.001	1450.9	1
25	0.057	0.056	1.944	1.925	34.061	9.62	418	27.346	1027.5	72.0	0.019	1448.5	25
50	-0.323	-0.325	1.584	1.546	34.078	8.35	363	27.378	1027.6	68.9	0.036	1447.2	50
75	-0.973	-0.975	0.954	0.898	34.089	6.92	301	27.414	1027.8	65.3	0.053	1444.6	74
100	-1.235	-1.238	0.710	0.635	34.097	6.70	291	27.430	1027.9	63.6	0.069	1443.8	99
125	-1.331	-1.334	0.634	0.540	34.103	6.78	295	27.438	1028.0	62.6	0.085	1443.7	124
150	-1.279	-1.282	0.706	0.593	34.113	6.58	286	27.445	1028.2	61.9	0.100	1444.4	148
175	-1.344	-1.348	0.660	0.528	34.119	6.64	289	27.452	1028.3	61.1	0.116	1444.5	173
200	-1.288	-1.293	0.735	0.584	34.130	6.50	283	27.459	1028.4	60.3	0.131	1445.2	198
225	-1.091	-1.097	0.952	0.783	34.152	6.18	269	27.470	1028.5	59.3	0.146	1446.6	222
250	-0.855	-0.862	1.209	1.021	34.181	5.86	255	27.484	1028.7	58.0	0.161	1448.1	247
275	-0.571	-0.579	1.514	1.307	34.214	5.42	236	27.499	1028.8	56.8	0.175	1449.9	272
300	-0.350	-0.360	1.756	1.530	34.258	5.20	226	27.525	1029.0	54.4	0.189	1451.4	297
325	-0.196	-0.207	1.931	1.686	34.296	5.07	220	27.548	1029.1	52.4	0.202	1452.6	321
350	0.065	0.051	2.213	1.949	34.335	4.79	208	27.567	1029.2	50.9	0.215	1454.2	346
375	0.235	0.220	2.404	2.122	34.369	4.65	202	27.585	1029.4	49.3	0.228	1455.5	371
400	0.313	0.296	2.502	2.201	34.398	4.64	202	27.604	1029.5	47.6	0.240	1456.3	395
425	0.484	0.466	2.695	2.375	34.446	4.53	197	27.633	1029.6	45.1	0.251	1457.5	420
450	0.547	0.528	2.778	2.439	34.475	4.54	197	27.653	1029.8	43.3	0.262	1458.3	445
475	0.673	0.651	2.924	2.567	34.509	4.47	194	27.673	1029.9	41.6	0.273	1459.3	469
500	0.711	0.688	2.982	2.606	34.524	4.47	194	27.683	1030.0	40.8	0.283	1459.9	494
550	0.834	0.808	3.146	2.731	34.560	4.42	192	27.704	1030.3	39.1	0.303	1461.3	543
600	0.963	0.934	3.314	2.862	34.597	4.36	190	27.726	1030.5	37.3	0.322	1462.8	593
650	1.097	1.064	3.488	2.998	34.639	4.32	188	27.751	1030.8	35.3	0.340	1464.3	642
700	1.157	1.121	3.587	3.060	34.664	4.30	187	27.768	1031.1	34.0	0.358	1465.4	691
750	1.189	1.150	3.657	3.093	34.677	4.30	187	27.776	1031.3	33.5	0.374	1466.4	741
800	1.201	1.159	3.708	3.105	34.684	4.30	187	27.780	1031.5	33.2	0.391	1467.3	790
850	1.210	1.165	3.754	3.114	34.689	4.30	187	27.785	1031.8	33.0	0.408	1468.1	839
900	1.215	1.167	3.798	3.120	34.692	4.29	187	27.787	1032.0	33.0	0.424	1469.0	888
950	1.217	1.166	3.837	3.122	34.695	4.30	187	27.789	1032.2	32.9	0.441	1469.8	938
951	1.217	1.166	3.838	3.122	34.696	4.30	187	27.790	1032.2	32.9	0.441	1469.8	939


NBP0901 030
75 0.08 S 101 56.24 W
Velocity (cm/s)
-20 0 20
u
v
Potential Temperature (°C)
-1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0
Pressure (dbar)
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500
26.8 27 27.2 27.4 27.6 27.8
28
2 1 0 -1 -2
33.6 34.0 34.4 34.8
120°W 110°W 100°W
70°S 72°S 74°S
32.6 32.8 33.0 33.2 33.4 33.6 33.8 34.0 34.2 34.4 34.6 34.8
Salinity
4 5 6 7 8 9 10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**031D**	2009/01/19	11:30	-74.9781	-101.8846	996	10	993	3	8.1	122	-3.5	978.3

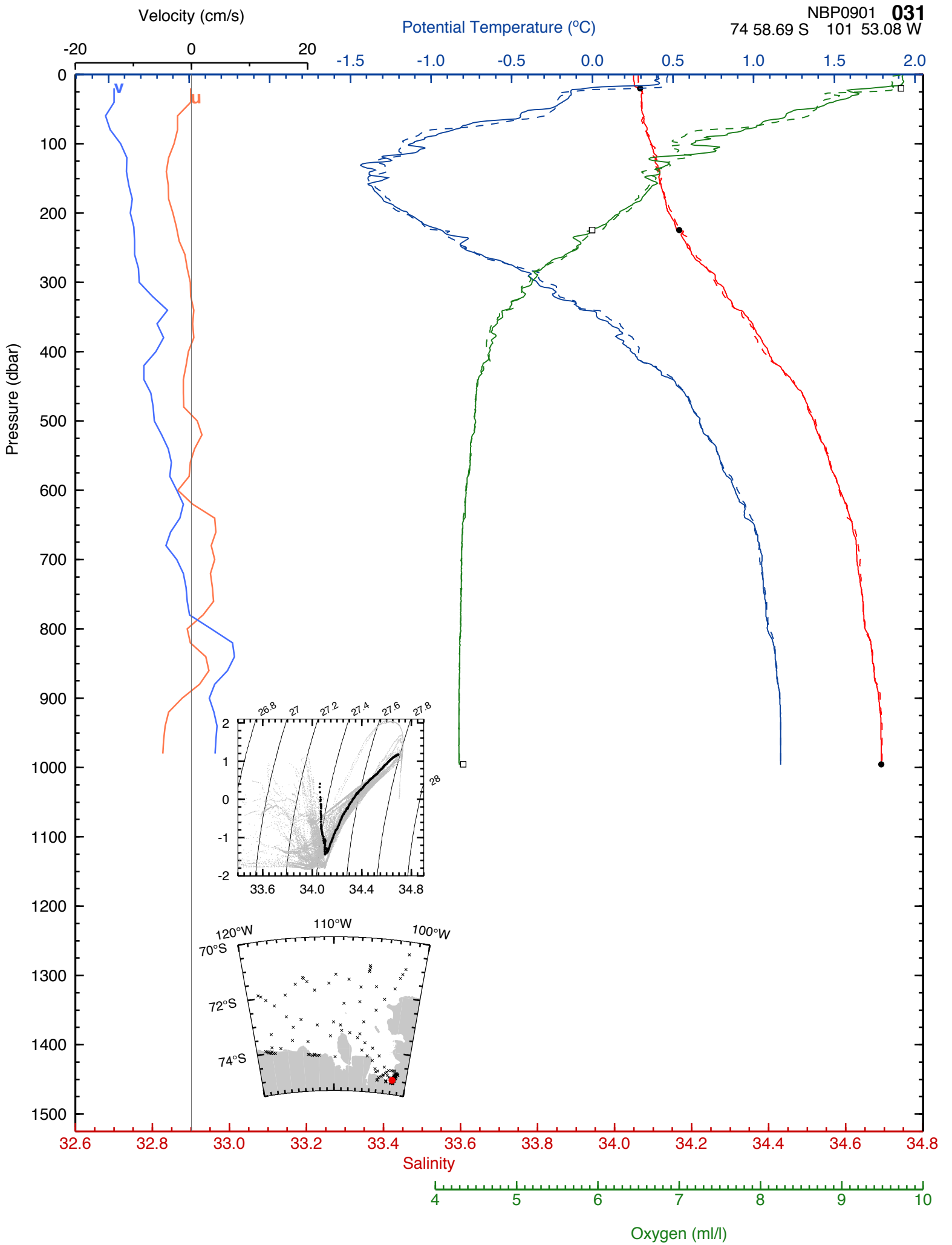
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.408	0.408	2.277	2.276	34.062	9.75	424	79.3	27.327	1027.3	73.8	0.001	1449.8			1
25	-0.132	-0.133	1.756	1.737	34.072	9.11	396	72.6	27.364	1027.5	70.2	0.018	1447.7	0.133	180	25
50	-0.311	-0.312	1.596	1.558	34.070	8.53	371	76.1	27.371	1027.6	69.5	0.036	1447.3	0.141	185	50
75	-0.806	-0.808	1.119	1.063	34.076	7.95	346	85.8	27.397	1027.8	66.9	0.053	1445.4	0.144	190	74
100	-1.122	-1.124	0.824	0.749	34.094	7.15	311	90.2	27.424	1027.9	64.2	0.069	1444.3	0.127	194	99
125	-1.253	-1.256	0.713	0.619	34.106	6.74	293	93.6	27.438	1028.0	62.7	0.085	1444.1	0.118	200	124
150	-1.272	-1.275	0.713	0.600	34.121	6.61	287	94.6	27.451	1028.2	61.3	0.100	1444.5	0.118	201	148
175	-1.315	-1.320	0.689	0.557	34.130	6.56	285	95.5	27.459	1028.3	60.4	0.116	1444.7	0.111	201	173
200	-1.138	-1.143	0.886	0.735	34.148	6.27	272	96.0	27.468	1028.4	59.5	0.131	1445.9	0.110	197	198
225	-0.927	-0.933	1.118	0.948	34.175	5.93	258	96.7	27.482	1028.6	58.3	0.145	1447.4	0.102	194	222
250	-0.775	-0.782	1.289	1.101	34.196	5.75	250	96.8	27.493	1028.7	57.3	0.160	1448.5	0.100	190	247
275	-0.492	-0.501	1.594	1.387	34.235	5.36	233	97.1	27.512	1028.8	55.6	0.174	1450.3	0.094	185	272
300	-0.332	-0.343	1.774	1.548	34.262	5.19	226	96.8	27.527	1029.0	54.3	0.188	1451.5	0.090	182	297
325	-0.174	-0.186	1.952	1.708	34.294	4.99	217	96.8	27.546	1029.1	52.6	0.201	1452.7	0.065	180	321
350	0.043	0.029	2.190	1.927	34.333	4.83	210	97.1	27.566	1029.2	50.9	0.214	1454.1	0.046	175	346
375	0.191	0.176	2.359	2.076	34.364	4.73	206	97.1	27.584	1029.4	49.4	0.226	1455.3	0.053	177	371
400	0.257	0.241	2.445	2.144	34.387	4.67	203	97.2	27.599	1029.5	48.0	0.239	1456.0	0.058	182	395
425	0.419	0.401	2.629	2.309	34.432	4.57	199	97.3	27.626	1029.6	45.7	0.250	1457.2	0.082	186	420
450	0.548	0.528	2.779	2.440	34.472	4.51	196	97.4	27.650	1029.8	43.6	0.261	1458.3	0.080	190	445
475	0.628	0.607	2.879	2.521	34.500	4.50	195	97.5	27.668	1029.9	42.0	0.272	1459.1	0.069	191	469
500	0.688	0.665	2.959	2.583	34.522	4.50	195	97.6	27.682	1030.0	40.8	0.283	1459.8	0.066	177	494
550	0.810	0.784	3.121	2.707	34.557	4.44	193	97.8	27.703	1030.3	39.1	0.303	1461.2	0.039	175	543
600	0.913	0.884	3.263	2.812	34.583	4.38	190	97.7	27.718	1030.5	38.0	0.322	1462.5	0.035	209	593
650	1.035	1.003	3.425	2.936	34.621	4.34	188	97.8	27.741	1030.8	36.2	0.340	1464.0	0.046	118	642
700	1.087	1.052	3.516	2.989	34.638	4.32	188	97.8	27.751	1031.0	35.5	0.358	1465.0	0.051	131	691
750	1.105	1.067	3.572	3.007	34.643	4.32	188	97.8	27.754	1031.3	35.3	0.376	1466.0	0.037	104	741
800	1.126	1.085	3.631	3.029	34.650	4.31	187	97.8	27.759	1031.5	35.1	0.394	1466.9	0.028	223	790
850	1.180	1.136	3.724	3.084	34.672	4.30	187	97.8	27.773	1031.8	34.0	0.411	1468.0	0.078	32	839
900	1.210	1.162	3.792	3.115	34.690	4.29	187	97.7	27.785	1032.0	33.1	0.428	1469.0	0.039	152	888
950	1.218	1.167	3.838	3.123	34.694	4.29	186	97.5	27.788	1032.2	33.0	0.444	1469.8	0.062	314	938
996	1.220	1.166	3.875	3.125	34.694	4.29	187	97.2	27.789	1032.4	33.1	0.459	1470.6			983

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	031B	2009/01/19	12:00	-74.9783	-101.8852	995	10	993	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
20	0.396	0.395	34.060	27.326	9.71	422	34.066	9.73	423			5	20
224	-1.008	-1.015	34.164	27.476	6.03	262	34.167	5.93	258			3	222
995	1.220	1.166	34.695	27.789	4.29	187	34.692	4.34	189			1	982

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	031U	2009/01/19	12:21	-74.9781	-101.8849	995	10	993	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.468	0.468	2.336	2.336	34.050	9.72	423	27.314	1027.3	75.0	0.001	1450.0	1
25	-0.152	-0.152	1.736	1.717	34.071	9.27	403	27.364	1027.5	70.2	0.019	1447.6	25
50	-0.234	-0.235	1.673	1.635	34.070	8.69	378	27.367	1027.6	69.9	0.036	1447.6	50
75	-0.721	-0.723	1.205	1.149	34.082	7.90	343	27.399	1027.8	66.8	0.053	1445.8	74
100	-1.161	-1.163	0.785	0.710	34.096	7.04	306	27.426	1027.9	63.9	0.069	1444.1	99
125	-1.340	-1.343	0.625	0.531	34.106	6.90	300	27.440	1028.0	62.4	0.085	1443.7	124
150	-1.388	-1.391	0.597	0.484	34.115	6.71	292	27.450	1028.2	61.4	0.101	1443.9	148
175	-1.279	-1.283	0.725	0.593	34.128	6.50	283	27.457	1028.3	60.6	0.116	1444.8	173
200	-1.168	-1.173	0.856	0.706	34.141	6.32	275	27.463	1028.4	60.0	0.131	1445.8	198
225	-0.932	-0.938	1.112	0.943	34.172	5.94	258	27.480	1028.6	58.5	0.146	1447.3	222
250	-0.795	-0.802	1.269	1.081	34.190	5.75	250	27.489	1028.7	57.6	0.160	1448.4	247
275	-0.492	-0.501	1.593	1.386	34.229	5.37	234	27.508	1028.8	56.0	0.175	1450.3	272
300	-0.292	-0.303	1.814	1.588	34.266	5.16	224	27.529	1029.0	54.1	0.188	1451.7	297
325	-0.124	-0.136	2.003	1.758	34.299	5.01	218	27.548	1029.1	52.5	0.202	1452.9	321
350	0.105	0.092	2.254	1.990	34.345	4.78	208	27.573	1029.2	50.3	0.215	1454.5	346
375	0.231	0.216	2.400	2.118	34.371	4.67	203	27.587	1029.4	49.1	0.227	1455.5	371
400	0.303	0.286	2.492	2.190	34.398	4.64	201	27.605	1029.5	47.5	0.239	1456.2	395
425	0.420	0.403	2.630	2.310	34.434	4.59	200	27.627	1029.6	45.6	0.251	1457.2	420
450	0.558	0.539	2.789	2.450	34.471	4.51	196	27.649	1029.8	43.7	0.262	1458.3	445
475	0.637	0.616	2.888	2.530	34.499	4.49	195	27.667	1029.9	42.1	0.273	1459.1	469
500	0.689	0.667	2.961	2.584	34.517	4.47	194	27.679	1030.0	41.2	0.283	1459.8	494
550	0.811	0.786	3.122	2.708	34.553	4.43	193	27.700	1030.3	39.4	0.303	1461.2	543
600	0.929	0.900	3.279	2.828	34.585	4.37	190	27.718	1030.5	38.0	0.323	1462.6	593
650	1.034	1.002	3.423	2.934	34.617	4.34	188	27.738	1030.8	36.5	0.341	1464.0	642
700	1.073	1.037	3.501	2.974	34.629	4.32	188	27.745	1031.0	36.0	0.359	1465.0	691
750	1.112	1.073	3.578	3.014	34.642	4.32	188	27.753	1031.3	35.4	0.377	1466.0	741
800	1.136	1.095	3.641	3.038	34.650	4.31	187	27.758	1031.5	35.2	0.395	1466.9	790
850	1.184	1.139	3.728	3.087	34.671	4.30	187	27.771	1031.8	34.2	0.412	1468.0	839
900	1.209	1.161	3.791	3.113	34.686	4.29	186	27.782	1032.0	33.4	0.429	1469.0	888
950	1.218	1.167	3.838	3.123	34.692	4.29	186	27.786	1032.2	33.1	0.445	1469.8	938
996	1.220	1.166	3.875	3.125	34.694	4.29	187	27.789	1032.4	33.1	0.461	1470.6	983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Potential Temperature (°C)
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Pressure (dbar)
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100
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300
400
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600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
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-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**032D**	2009/01/19	12:51	-74.9868	-101.8167	1018	9	1015	3	11.8	128	-3.3	978.5

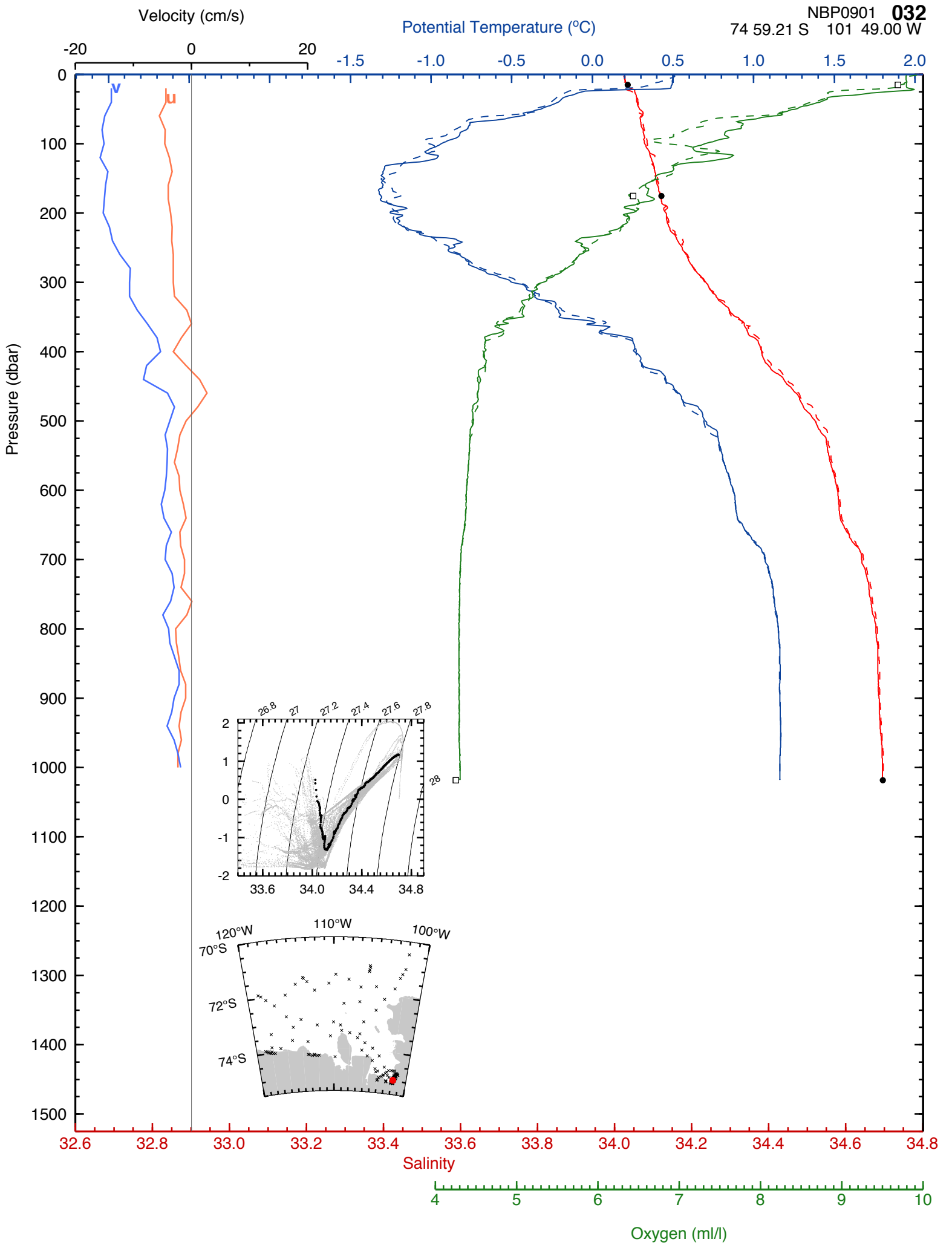
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.512	0.512	2.380	2.379	34.026	9.79	426	75.0	27.292	1027.3	77.1	0.001	1450.2			1
25	-0.063	-0.064	1.823	1.804	34.046	9.54	415	68.9	27.339	1027.5	72.6	0.019	1448.0	0.145	198	25
50	-0.319	-0.320	1.588	1.550	34.062	8.43	366	77.9	27.365	1027.6	70.1	0.037	1447.2	0.152	199	50
75	-0.765	-0.767	1.160	1.104	34.075	7.76	337	86.3	27.395	1027.8	67.1	0.054	1445.6	0.160	197	74
100	-0.934	-0.937	1.011	0.936	34.085	7.32	318	89.1	27.410	1027.9	65.6	0.071	1445.2	0.158	197	99
125	-1.037	-1.040	0.928	0.834	34.103	7.37	320	90.0	27.428	1028.0	63.7	0.087	1445.1	0.159	193	124
150	-1.284	-1.288	0.700	0.587	34.111	6.71	291	91.2	27.443	1028.2	62.0	0.102	1444.4	0.150	194	148
175	-1.307	-1.312	0.696	0.565	34.119	6.61	287	93.7	27.451	1028.3	61.2	0.118	1444.7	0.154	195	173
200	-1.248	-1.253	0.775	0.624	34.134	6.40	278	94.9	27.461	1028.4	60.2	0.133	1445.4	0.156	193	198
225	-1.108	-1.114	0.936	0.766	34.153	6.18	268	96.0	27.471	1028.5	59.2	0.148	1446.5	0.144	193	222
250	-0.857	-0.864	1.207	1.018	34.178	5.85	254	96.4	27.482	1028.7	58.2	0.163	1448.1	0.135	194	247
275	-0.753	-0.762	1.330	1.123	34.200	5.68	247	96.7	27.496	1028.8	56.9	0.177	1449.0	0.116	195	272
300	-0.488	-0.498	1.616	1.391	34.236	5.32	231	96.8	27.514	1028.9	55.4	0.191	1450.7	0.111	196	297
325	-0.307	-0.319	1.818	1.574	34.274	5.11	222	97.0	27.536	1029.1	53.4	0.205	1452.0	0.110	195	321
350	-0.193	-0.206	1.953	1.689	34.304	5.07	220	97.0	27.555	1029.2	51.7	0.218	1453.0	0.088	183	346
375	0.137	0.122	2.305	2.023	34.361	4.70	204	97.2	27.584	1029.4	49.3	0.230	1455.0	0.068	189	371
400	0.275	0.259	2.463	2.162	34.383	4.61	200	96.8	27.595	1029.5	48.5	0.243	1456.1	0.061	207	395
425	0.388	0.370	2.597	2.277	34.424	4.55	198	97.0	27.621	1029.6	46.1	0.255	1457.1	0.078	187	420
450	0.520	0.501	2.751	2.412	34.465	4.54	197	97.3	27.647	1029.8	43.9	0.266	1458.1	0.076	165	445
475	0.615	0.594	2.866	2.508	34.499	4.49	195	97.5	27.668	1029.9	42.0	0.277	1459.0	0.041	152	469
500	0.723	0.700	2.995	2.618	34.533	4.47	194	97.7	27.689	1030.0	40.2	0.287	1460.0	0.036	183	494
550	0.832	0.807	3.144	2.730	34.562	4.41	192	97.7	27.706	1030.3	38.9	0.306	1461.3	0.049	211	543
600	0.900	0.871	3.250	2.798	34.581	4.38	191	97.8	27.717	1030.5	38.0	0.326	1462.5	0.049	204	593
650	0.963	0.931	3.352	2.862	34.600	4.36	189	97.7	27.728	1030.8	37.2	0.345	1463.6	0.047	193	642
700	1.106	1.071	3.535	3.008	34.646	4.31	187	97.8	27.756	1031.0	35.0	0.363	1465.1	0.047	199	691
750	1.160	1.122	3.628	3.063	34.667	4.30	187	97.9	27.769	1031.3	34.0	0.380	1466.2	0.035	210	741
800	1.195	1.153	3.702	3.099	34.682	4.29	186	97.9	27.780	1031.5	33.3	0.397	1467.2	0.049	202	790
850	1.208	1.163	3.752	3.112	34.688	4.29	186	97.8	27.783	1031.8	33.1	0.413	1468.1	0.036	217	839
900	1.210	1.162	3.792	3.114	34.689	4.29	186	97.8	27.785	1032.0	33.2	0.430	1469.0	0.027	202	888
950	1.219	1.168	3.839	3.124	34.694	4.29	186	97.8	27.788	1032.2	33.0	0.446	1469.8	0.046	207	938
1000	1.216	1.162	3.874	3.121	34.697	4.31	187	97.6	27.791	1032.5	32.8	0.463	1470.7	0.032	227	987
1018	1.217	1.162	3.889	3.122	34.697	4.30	187	97.5	27.791	1032.6	32.9	0.469	1471.0			1005

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	032B	2009/01/19	13:18	-74.9870	-101.8168	1018	9	1015	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
15	0.383	0.382	34.030	27.303	9.76	424	34.035	9.69	421			5	15
175	-1.166	-1.170	34.123	27.449	6.35	276	34.122	6.43	280			3	173
1018	1.217	1.162	34.697	27.791	4.30	187	34.696	4.25	185			1	1005

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	032U	2009/01/19	13:43	-74.9871	-101.8170	1018	9	1015	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.496	0.496	2.363	2.362	34.025	9.93	432	27.292	1027.3	77.1	0.001	1450.1	1
25	-0.155	-0.156	1.732	1.713	34.053	8.85	385	27.349	1027.5	71.6	0.019	1447.6	25
50	-0.363	-0.365	1.543	1.506	34.065	8.30	361	27.369	1027.6	69.7	0.037	1447.0	50
75	-0.809	-0.811	1.116	1.060	34.070	7.29	317	27.392	1027.8	67.3	0.054	1445.3	74
100	-1.010	-1.012	0.935	0.860	34.078	6.84	297	27.407	1027.9	65.8	0.070	1444.8	99
125	-1.147	-1.150	0.818	0.724	34.097	7.03	306	27.427	1028.0	63.7	0.086	1444.6	124
150	-1.304	-1.307	0.680	0.567	34.107	6.80	296	27.440	1028.2	62.3	0.102	1444.3	148
175	-1.181	-1.185	0.823	0.691	34.122	6.38	277	27.448	1028.3	61.5	0.118	1445.3	173
200	-1.192	-1.197	0.831	0.681	34.134	6.39	278	27.458	1028.4	60.4	0.133	1445.7	198
225	-1.138	-1.144	0.905	0.735	34.144	6.27	273	27.465	1028.5	59.7	0.148	1446.3	222
250	-0.883	-0.891	1.180	0.992	34.176	5.83	253	27.481	1028.7	58.3	0.163	1448.0	247
275	-0.716	-0.725	1.367	1.160	34.200	5.64	245	27.494	1028.8	57.1	0.177	1449.2	272
300	-0.449	-0.459	1.656	1.430	34.237	5.31	231	27.512	1028.9	55.6	0.191	1450.9	297
325	-0.304	-0.315	1.821	1.577	34.269	5.15	224	27.532	1029.1	53.8	0.205	1452.0	321
350	-0.036	-0.049	2.111	1.847	34.317	4.94	215	27.558	1029.2	51.6	0.218	1453.8	346
375	0.080	0.066	2.248	1.965	34.347	4.83	210	27.576	1029.4	50.0	0.231	1454.7	371
400	0.287	0.271	2.475	2.174	34.382	4.59	200	27.593	1029.5	48.7	0.243	1456.1	395
425	0.338	0.320	2.546	2.226	34.406	4.61	200	27.609	1029.6	47.2	0.255	1456.8	420
450	0.497	0.478	2.727	2.388	34.455	4.54	197	27.640	1029.8	44.5	0.267	1458.0	445
475	0.586	0.565	2.836	2.479	34.487	4.52	196	27.660	1029.9	42.7	0.277	1458.9	469
500	0.711	0.689	2.983	2.606	34.521	4.45	193	27.680	1030.0	41.0	0.288	1459.9	494
550	0.826	0.800	3.137	2.723	34.556	4.42	192	27.702	1030.3	39.3	0.308	1461.3	543
600	0.903	0.874	3.252	2.801	34.579	4.38	190	27.715	1030.5	38.3	0.327	1462.5	593
650	0.957	0.925	3.346	2.856	34.594	4.37	190	27.724	1030.8	37.6	0.346	1463.6	642
700	1.103	1.068	3.532	3.005	34.642	4.32	188	27.753	1031.0	35.3	0.364	1465.1	691
750	1.156	1.117	3.623	3.058	34.661	4.30	187	27.765	1031.3	34.4	0.382	1466.2	741
800	1.193	1.151	3.700	3.097	34.679	4.29	187	27.777	1031.5	33.5	0.399	1467.2	790
850	1.206	1.161	3.750	3.110	34.684	4.29	186	27.780	1031.8	33.4	0.415	1468.1	839
900	1.212	1.164	3.794	3.116	34.687	4.29	187	27.783	1032.0	33.3	0.432	1469.0	888
950	1.219	1.168	3.839	3.124	34.691	4.29	187	27.785	1032.2	33.2	0.449	1469.8	938
1000	1.216	1.162	3.874	3.121	34.695	4.30	187	27.790	1032.5	33.0	0.465	1470.7	987
1018	1.217	1.162	3.889	3.122	34.697	4.30	187	27.791	1032.6	32.9	0.471	1471.0	1005


Velocity (cm/s)
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Potential Temperature (°C)
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NBP0901 032
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Pressure (dbar)
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110°W
100°W
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34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**033D**	2009/01/19	14:11	-74.9963	-101.7614	1041	7	1035	3	11.1	130	-2.9	978.6

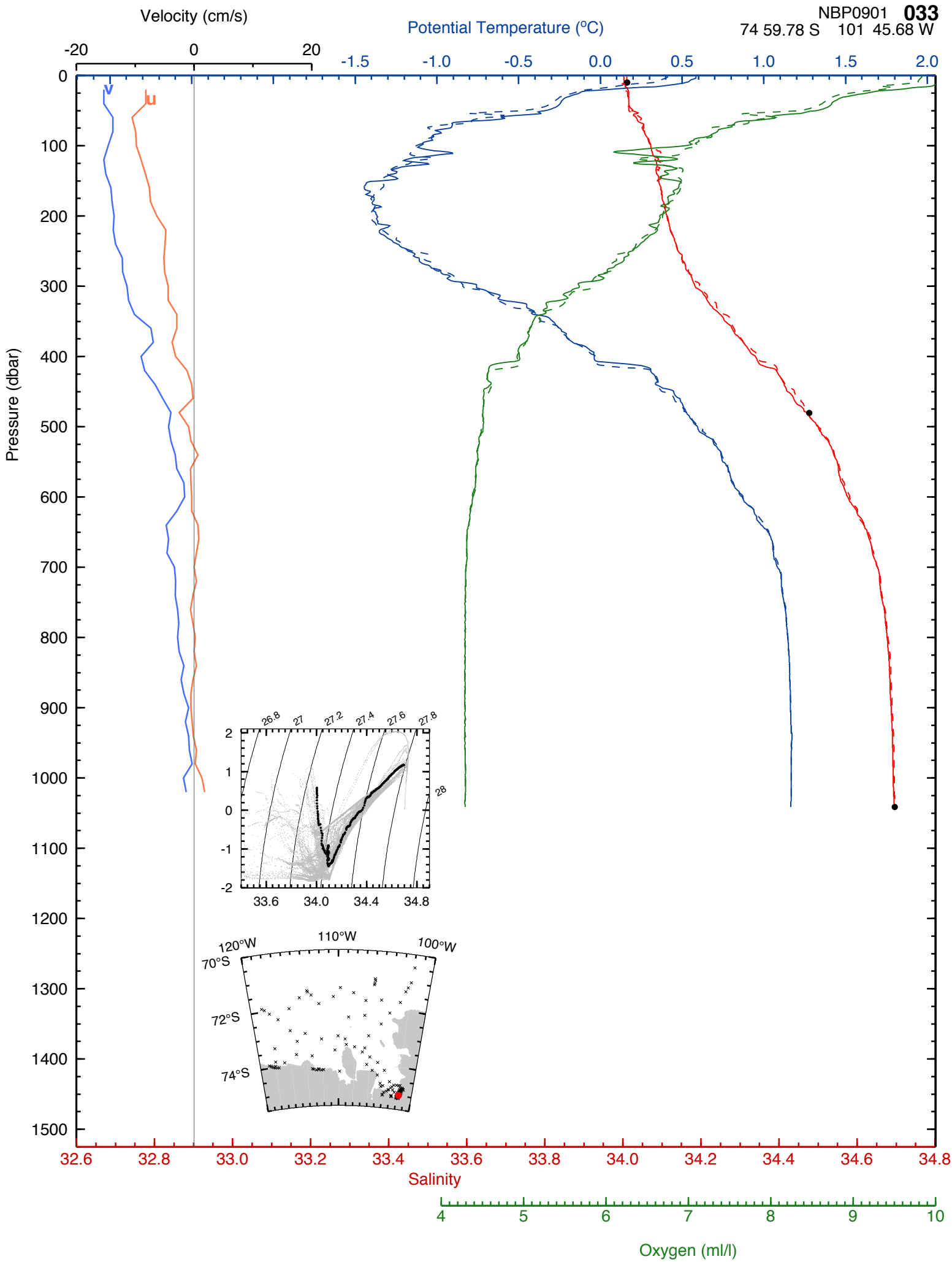
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.586	0.586	2.452	2.451	34.002	10.00	435	71.5	27.268	1027.3	79.4	0.001	1450.5			1
25	-0.130	-0.130	1.755	1.736	34.012	9.16	398	68.3	27.315	1027.4	74.9	0.019	1447.6	0.174	208	25
50	-0.338	-0.340	1.565	1.528	34.016	8.55	372	76.5	27.328	1027.6	73.6	0.038	1447.1	0.173	213	50
75	-0.917	-0.919	1.007	0.951	34.053	7.45	324	85.1	27.383	1027.7	68.2	0.056	1444.8	0.171	216	74
100	-1.098	-1.101	0.846	0.771	34.071	6.96	303	90.5	27.404	1027.9	66.1	0.072	1444.4	0.176	214	99
125	-1.053	-1.056	0.912	0.818	34.098	6.34	275	93.3	27.425	1028.0	64.0	0.089	1445.1	0.177	210	124
150	-1.355	-1.359	0.628	0.515	34.089	6.88	299	94.1	27.427	1028.1	63.5	0.104	1444.0	0.166	209	148
175	-1.380	-1.384	0.623	0.491	34.104	6.75	293	95.0	27.440	1028.3	62.2	0.120	1444.3	0.158	208	173
200	-1.362	-1.367	0.660	0.510	34.114	6.65	289	93.2	27.448	1028.4	61.3	0.136	1444.8	0.151	205	198
225	-1.340	-1.346	0.701	0.532	34.125	6.58	286	95.4	27.456	1028.5	60.4	0.151	1445.3	0.145	199	222
250	-1.167	-1.174	0.894	0.706	34.141	6.31	274	96.5	27.463	1028.7	59.7	0.166	1446.6	0.138	201	247
275	-1.008	-1.015	1.074	0.867	34.166	6.03	262	96.7	27.478	1028.8	58.4	0.181	1447.8	0.131	203	272
300	-0.749	-0.758	1.353	1.127	34.196	5.67	247	96.8	27.493	1028.9	57.2	0.195	1449.5	0.124	201	297
325	-0.442	-0.453	1.681	1.436	34.240	5.27	229	96.9	27.514	1029.1	55.3	0.209	1451.4	0.118	201	321
350	-0.279	-0.291	1.865	1.602	34.276	5.11	222	97.1	27.536	1029.2	53.4	0.223	1452.6	0.097	198	346
375	-0.185	-0.199	1.980	1.698	34.303	5.05	220	96.9	27.554	1029.3	51.8	0.236	1453.5	0.079	205	371
400	-0.023	-0.038	2.163	1.862	34.345	4.95	215	97.2	27.579	1029.5	49.6	0.249	1454.7	0.091	201	395
425	0.342	0.324	2.550	2.230	34.401	4.56	198	96.8	27.605	1029.6	47.6	0.261	1456.8	0.085	188	420
450	0.467	0.447	2.696	2.357	34.439	4.52	196	97.1	27.629	1029.8	45.5	0.272	1457.9	0.063	183	445
475	0.537	0.517	2.787	2.429	34.468	4.51	196	97.3	27.648	1029.9	43.8	0.283	1458.6	0.050	196	469
500	0.616	0.594	2.886	2.510	34.501	4.51	196	97.5	27.670	1030.0	41.9	0.294	1459.4	0.045	198	494
550	0.776	0.750	3.086	2.672	34.550	4.44	193	97.8	27.700	1030.3	39.4	0.314	1461.0	0.033	172	543
600	0.901	0.872	3.251	2.799	34.581	4.38	190	97.8	27.717	1030.5	38.1	0.334	1462.5	0.017	195	593
650	1.058	1.026	3.449	2.959	34.628	4.32	188	97.8	27.745	1030.8	35.9	0.352	1464.1	0.048	171	642
700	1.119	1.083	3.548	3.021	34.652	4.30	187	97.9	27.760	1031.0	34.7	0.370	1465.2	0.039	178	691
750	1.161	1.123	3.629	3.064	34.667	4.29	186	97.9	27.770	1031.3	34.0	0.387	1466.2	0.032	184	741
800	1.187	1.145	3.693	3.091	34.679	4.29	186	97.9	27.778	1031.5	33.4	0.404	1467.2	0.027	180	790
850	1.203	1.158	3.747	3.107	34.687	4.29	186	97.9	27.783	1031.8	33.1	0.421	1468.1	0.017	167	839
900	1.211	1.163	3.793	3.115	34.690	4.29	186	97.8	27.785	1032.0	33.1	0.437	1469.0	0.015	202	888
950	1.219	1.168	3.839	3.124	34.694	4.29	186	97.8	27.788	1032.2	33.0	0.454	1469.8	0.010	187	938
1000	1.221	1.167	3.879	3.126	34.695	4.29	187	97.8	27.789	1032.5	33.1	0.470	1470.7	0.010	146	987
1041	1.221	1.165	3.910	3.126	34.697	4.29	186	97.7	27.790	1032.7	33.1	0.484	1471.3			1027

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	033B	2009/01/19	14:37	-74.9954	-101.7604	1041	7	1035	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	0.349	0.348	34.004	27.284	9.73	423	34.011					5	10
481	0.557	0.536	34.475	27.652	4.51	196	34.478					3	475
1041	1.221	1.165	34.696	27.790	4.29	186	34.697					1	1027

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	033U	2009/01/19	15:02	-74.9950	-101.7595	1041	7	1035	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.409	0.409	2.275	2.274	34.010	9.83	427	27.285	1027.3	77.7	0.001	1449.7	1
25	-0.166	-0.167	1.718	1.700	34.015	8.97	390	27.320	1027.4	74.4	0.019	1447.5	25
50	-0.486	-0.487	1.418	1.381	34.023	8.34	363	27.341	1027.6	72.3	0.038	1446.4	50
75	-1.053	-1.055	0.871	0.815	34.050	7.28	316	27.385	1027.7	68.0	0.055	1444.2	74
100	-1.125	-1.128	0.819	0.744	34.072	7.12	309	27.405	1027.9	65.9	0.072	1444.3	99
125	-1.166	-1.169	0.798	0.704	34.087	6.73	292	27.419	1028.0	64.5	0.088	1444.5	124
150	-1.333	-1.337	0.650	0.537	34.092	6.91	300	27.429	1028.1	63.4	0.104	1444.1	148
175	-1.398	-1.402	0.604	0.473	34.101	6.85	298	27.439	1028.3	62.3	0.120	1444.2	173
200	-1.390	-1.395	0.632	0.481	34.113	6.69	291	27.448	1028.4	61.3	0.135	1444.7	198
225	-1.300	-1.305	0.742	0.572	34.126	6.52	284	27.456	1028.5	60.5	0.150	1445.5	222
250	-1.141	-1.148	0.920	0.732	34.142	6.29	273	27.463	1028.7	59.8	0.165	1446.7	247
275	-1.014	-1.022	1.068	0.860	34.161	6.07	264	27.474	1028.8	58.8	0.180	1447.8	272
300	-0.833	-0.842	1.268	1.042	34.185	5.81	253	27.486	1028.9	57.7	0.195	1449.0	297
325	-0.574	-0.584	1.549	1.304	34.222	5.48	238	27.506	1029.1	56.0	0.209	1450.7	321
350	-0.345	-0.358	1.798	1.535	34.262	5.21	226	27.528	1029.2	54.1	0.223	1452.2	346
375	-0.179	-0.193	1.985	1.703	34.301	5.05	220	27.552	1029.3	52.0	0.236	1453.5	371
400	-0.015	-0.030	2.170	1.869	34.340	4.92	214	27.575	1029.5	50.0	0.249	1454.7	395
425	0.347	0.329	2.555	2.235	34.398	4.56	198	27.602	1029.6	47.8	0.261	1456.8	420
450	0.399	0.380	2.627	2.288	34.422	4.58	199	27.619	1029.7	46.3	0.273	1457.5	445
475	0.530	0.510	2.780	2.422	34.463	4.52	196	27.645	1029.9	44.1	0.284	1458.6	469
500	0.627	0.605	2.897	2.521	34.500	4.51	196	27.668	1030.0	42.0	0.295	1459.5	494
550	0.794	0.769	3.105	2.691	34.549	4.43	193	27.698	1030.3	39.6	0.315	1461.1	543
600	0.894	0.866	3.244	2.792	34.576	4.39	191	27.713	1030.5	38.4	0.335	1462.4	593
650	1.063	1.030	3.453	2.963	34.626	4.32	188	27.743	1030.8	36.1	0.353	1464.1	642
700	1.129	1.093	3.558	3.031	34.652	4.30	187	27.759	1031.0	34.7	0.371	1465.2	691
750	1.164	1.126	3.632	3.068	34.666	4.29	187	27.768	1031.3	34.1	0.388	1466.2	741
800	1.189	1.147	3.695	3.092	34.677	4.29	187	27.776	1031.5	33.6	0.405	1467.2	790
850	1.202	1.157	3.746	3.106	34.683	4.29	186	27.780	1031.8	33.4	0.422	1468.1	839
900	1.212	1.164	3.794	3.116	34.687	4.29	186	27.783	1032.0	33.3	0.439	1469.0	888
950	1.219	1.168	3.839	3.124	34.691	4.29	186	27.785	1032.2	33.2	0.455	1469.8	938
1000	1.221	1.167	3.879	3.126	34.693	4.29	187	27.787	1032.5	33.2	0.472	1470.7	987
1041	1.221	1.165	3.910	3.126	34.697	4.29	186	27.790	1032.7	33.1	0.486	1471.3	1027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20
v
u
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2.0
NBP0901 033
74 59.78 S 101 45.68 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**034D**	2009/01/19	15:33	-75.0057	-101.6841	1065	8	1059	2	11.4	140	-3.1	978.2

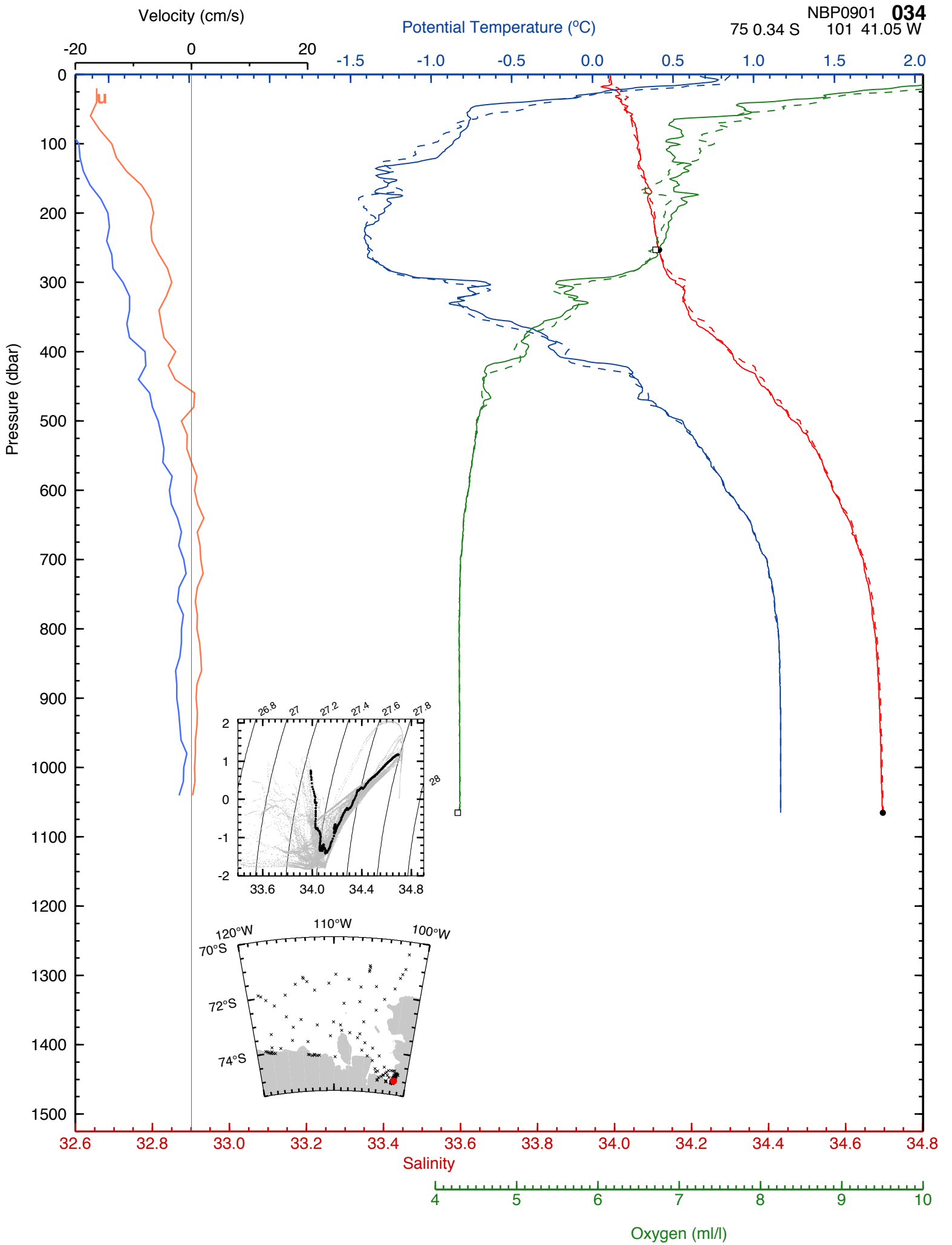
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.672	0.672	2.538	2.536	33.990	10.00	435	71.7	27.253	1027.3	80.8	0.002	1450.9			2
25	0.069	0.068	1.954	1.935	34.022	9.14	397	73.1	27.314	1027.4	75.0	0.020	1448.5	0.282	215	25
50	-0.756	-0.757	1.149	1.111	34.030	7.81	340	85.5	27.358	1027.6	70.7	0.038	1445.1	0.283	216	50
75	-0.771	-0.773	1.153	1.096	34.047	6.91	300	89.6	27.372	1027.7	69.3	0.056	1445.5	0.270	217	74
100	-0.864	-0.867	1.080	1.004	34.061	6.98	303	90.6	27.387	1027.9	67.7	0.073	1445.5	0.238	215	99
125	-1.061	-1.064	0.902	0.808	34.066	6.92	301	90.0	27.399	1028.0	66.5	0.089	1445.0	0.228	213	124
150	-1.280	-1.283	0.703	0.590	34.078	6.89	300	94.8	27.416	1028.1	64.6	0.106	1444.4	0.208	209	148
175	-1.173	-1.177	0.829	0.698	34.093	7.19	313	93.3	27.425	1028.3	63.7	0.122	1445.3	0.179	205	173
200	-1.294	-1.298	0.728	0.577	34.103	6.92	301	89.7	27.437	1028.4	62.4	0.138	1445.1	0.160	204	198
225	-1.408	-1.413	0.632	0.463	34.106	6.86	298	92.5	27.443	1028.5	61.7	0.153	1445.0	0.158	206	222
250	-1.385	-1.391	0.675	0.487	34.113	6.76	294	93.0	27.448	1028.6	61.0	0.169	1445.5	0.156	204	247
275	-1.304	-1.311	0.775	0.568	34.130	6.55	285	95.1	27.460	1028.8	59.9	0.184	1446.3	0.144	199	272
300	-0.651	-0.660	1.451	1.225	34.188	5.49	239	96.3	27.482	1028.9	58.2	0.198	1449.9	0.126	196	297
325	-0.801	-0.811	1.319	1.074	34.183	5.70	248	96.5	27.484	1029.0	57.8	0.213	1449.6	0.115	202	321
350	-0.645	-0.656	1.496	1.232	34.212	5.53	241	97.0	27.501	1029.2	56.3	0.227	1450.8	0.122	207	346
375	-0.289	-0.302	1.873	1.591	34.263	5.11	222	96.7	27.526	1029.3	54.2	0.241	1452.9	0.120	204	371
400	-0.220	-0.234	1.964	1.663	34.298	5.12	222	97.1	27.551	1029.5	51.9	0.254	1453.7	0.092	200	395
425	0.247	0.230	2.454	2.133	34.366	4.62	201	96.7	27.582	1029.6	49.6	0.267	1456.3	0.089	207	420
450	0.324	0.306	2.551	2.212	34.395	4.59	200	96.8	27.601	1029.7	47.9	0.279	1457.2	0.090	192	445
475	0.412	0.392	2.660	2.302	34.434	4.59	199	97.2	27.628	1029.9	45.5	0.291	1458.0	0.070	176	469
500	0.580	0.558	2.849	2.473	34.481	4.51	196	97.2	27.656	1030.0	43.1	0.302	1459.2	0.061	191	494
550	0.730	0.705	3.040	2.626	34.533	4.46	194	97.7	27.689	1030.3	40.4	0.323	1460.8	0.048	188	543
600	0.856	0.827	3.205	2.753	34.569	4.40	191	97.8	27.710	1030.5	38.6	0.343	1462.3	0.036	170	593
650	1.018	0.986	3.408	2.918	34.618	4.35	189	97.8	27.739	1030.8	36.3	0.361	1463.9	0.031	140	642
700	1.116	1.081	3.546	3.019	34.649	4.31	187	97.9	27.758	1031.0	34.9	0.379	1465.2	0.024	136	691
750	1.161	1.123	3.629	3.064	34.667	4.30	187	97.9	27.770	1031.3	34.0	0.396	1466.2	0.023	155	741
800	1.193	1.151	3.699	3.097	34.678	4.29	186	97.9	27.777	1031.5	33.5	0.413	1467.2	0.018	148	790
850	1.206	1.161	3.750	3.110	34.686	4.30	187	97.9	27.782	1031.8	33.2	0.430	1468.1	0.026	141	839
900	1.213	1.165	3.795	3.117	34.690	4.29	187	97.9	27.785	1032.0	33.1	0.446	1469.0	0.027	161	888
950	1.218	1.167	3.838	3.123	34.693	4.30	187	97.9	27.787	1032.2	33.1	0.463	1469.8	0.022	156	938
1000	1.222	1.168	3.880	3.127	34.694	4.30	187	97.9	27.788	1032.5	33.1	0.480	1470.7	0.012	146	987
1065	1.224	1.166	3.931	3.129	34.697	4.29	187	97.7	27.790	1032.8	33.1	0.501	1471.8			1051

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	034B	2009/01/19	16:11	-75.0051	-101.6826	1065	8	1059	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
253	-1.373	-1.379	34.116	27.450	6.69	291	34.115	6.71	292			3	250
1065	1.224	1.166	34.697	27.790	4.29	187	34.697	4.28	186			1	1051

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	034U	2009/01/19	16:39	-75.0048	-101.6818	1065	8	1059	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.856	0.856	2.721	2.720	33.989	10.10	439	27.242	1027.2	81.8	0.001	1451.7	1
25	0.161	0.160	2.046	2.027	34.008	9.64	419	27.297	1027.4	76.6	0.020	1449.0	25
50	-0.422	-0.423	1.482	1.445	34.026	8.27	359	27.340	1027.6	72.4	0.039	1446.7	50
75	-0.811	-0.813	1.114	1.057	34.055	7.55	328	27.380	1027.7	68.5	0.056	1445.3	74
100	-0.998	-1.001	0.946	0.871	34.061	7.43	323	27.393	1027.9	67.2	0.073	1444.9	99
125	-1.279	-1.282	0.684	0.589	34.064	7.18	312	27.405	1028.0	65.8	0.090	1443.9	124
150	-1.291	-1.294	0.692	0.579	34.078	6.80	295	27.417	1028.1	64.5	0.106	1444.3	148
175	-1.406	-1.411	0.595	0.464	34.087	6.84	297	27.428	1028.3	63.3	0.122	1444.2	173
200	-1.404	-1.409	0.617	0.467	34.096	6.83	297	27.435	1028.4	62.5	0.138	1444.6	198
225	-1.415	-1.420	0.626	0.456	34.105	6.78	295	27.442	1028.5	61.7	0.153	1445.0	222
250	-1.381	-1.387	0.679	0.491	34.113	6.71	292	27.448	1028.6	61.1	0.169	1445.5	247
275	-1.316	-1.323	0.763	0.556	34.126	6.57	285	27.457	1028.8	60.2	0.184	1446.3	272
300	-0.905	-0.914	1.195	0.969	34.158	5.89	256	27.468	1028.9	59.4	0.199	1448.7	297
325	-0.836	-0.846	1.284	1.039	34.178	5.74	250	27.481	1029.0	58.1	0.213	1449.4	321
350	-0.720	-0.731	1.420	1.156	34.196	5.64	245	27.491	1029.2	57.1	0.228	1450.4	346
375	-0.331	-0.344	1.831	1.549	34.252	5.17	225	27.519	1029.3	54.9	0.242	1452.7	371
400	-0.144	-0.159	2.039	1.738	34.303	5.00	217	27.551	1029.5	52.0	0.255	1454.1	395
425	0.078	0.061	2.282	1.962	34.337	4.84	210	27.568	1029.6	50.7	0.268	1455.5	420
450	0.311	0.292	2.537	2.198	34.386	4.59	200	27.594	1029.7	48.5	0.280	1457.1	445
475	0.361	0.341	2.608	2.250	34.420	4.63	201	27.619	1029.9	46.3	0.292	1457.8	469
500	0.545	0.523	2.813	2.437	34.465	4.52	196	27.645	1030.0	44.1	0.304	1459.1	494
550	0.735	0.709	3.044	2.630	34.531	4.46	194	27.687	1030.3	40.5	0.325	1460.8	543
600	0.862	0.834	3.212	2.760	34.567	4.41	192	27.708	1030.5	38.8	0.344	1462.3	593
650	1.016	0.984	3.406	2.916	34.613	4.34	189	27.736	1030.8	36.6	0.363	1463.9	642
700	1.116	1.081	3.546	3.018	34.645	4.31	187	27.755	1031.0	35.1	0.381	1465.2	691
750	1.159	1.120	3.627	3.062	34.663	4.30	187	27.767	1031.3	34.3	0.399	1466.2	741
800	1.191	1.149	3.697	3.094	34.674	4.29	187	27.774	1031.5	33.8	0.416	1467.2	790
850	1.206	1.161	3.750	3.110	34.682	4.29	187	27.779	1031.8	33.5	0.432	1468.1	839
900	1.213	1.165	3.795	3.117	34.687	4.30	187	27.783	1032.0	33.3	0.449	1469.0	888
950	1.218	1.167	3.838	3.123	34.690	4.30	187	27.785	1032.2	33.3	0.466	1469.8	938
1000	1.222	1.168	3.879	3.126	34.692	4.30	187	27.787	1032.5	33.3	0.482	1470.7	987
1065	1.224	1.166	3.931	3.129	34.697	4.29	187	27.790	1032.8	33.1	0.504	1471.8	1051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Potential Temperature (°C)
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NBP0901 034
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Pressure (dbar)
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27.2
27.4
27.6
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-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**035D**	2009/01/19	17:10	-75.0132	-101.6133	1081	8	1076	4	10.8	138	-2.1	978.0

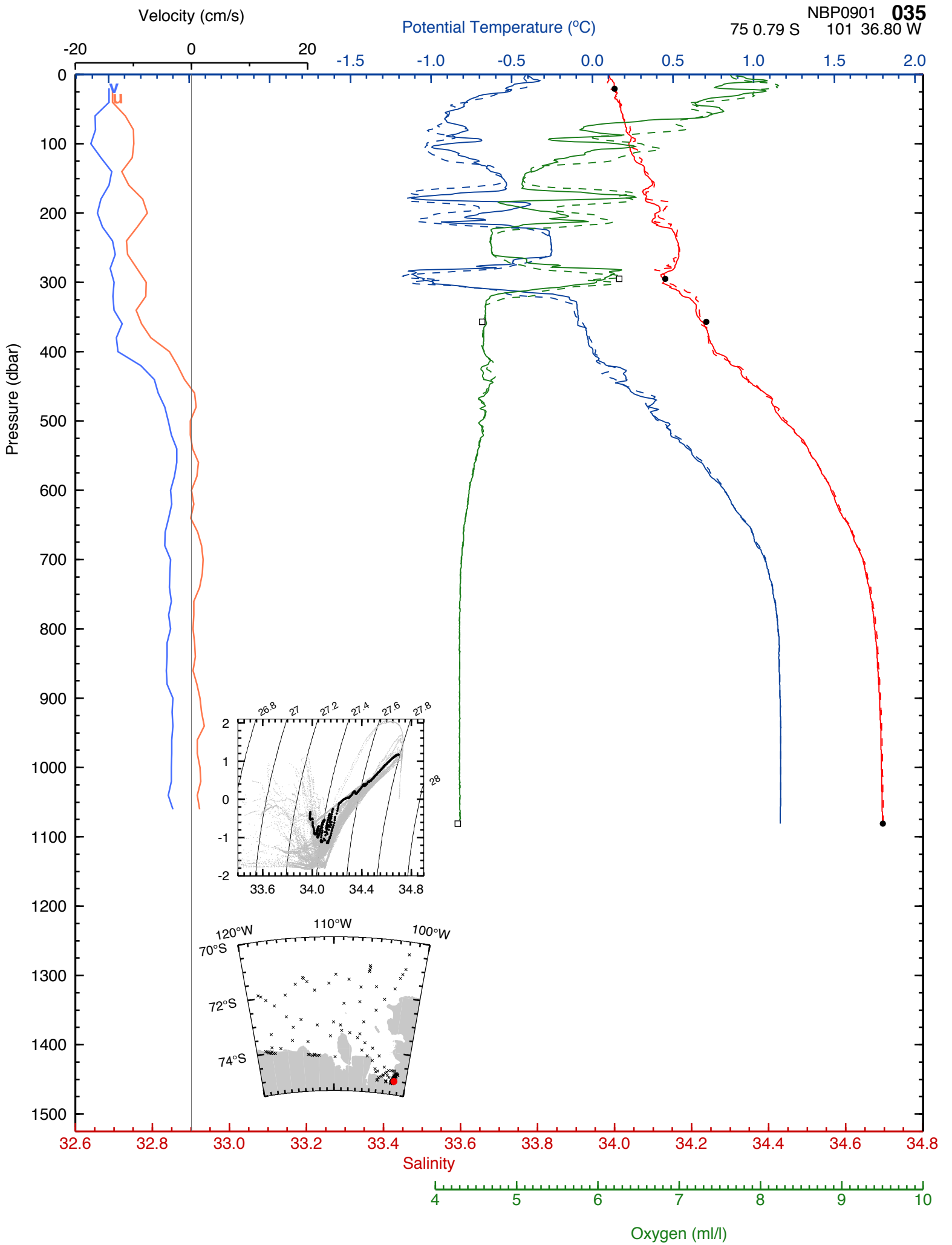
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.403	-0.404	1.462	1.461	33.984	7.70	335	84.6	27.305	1027.3	75.9	0.002	1446.0			2
25	-0.524	-0.525	1.360	1.341	34.003	8.03	349	83.5	27.326	1027.4	73.8	0.019	1445.8	0.197	224	25
50	-0.832	-0.834	1.071	1.033	34.015	7.51	326	87.3	27.349	1027.6	71.6	0.037	1444.8	0.199	219	50
75	-0.795	-0.797	1.129	1.073	34.041	5.85	254	92.8	27.368	1027.7	69.6	0.055	1445.4	0.195	212	74
100	-0.888	-0.891	1.054	0.979	34.043	6.24	271	93.7	27.373	1027.9	69.0	0.072	1445.3	0.199	210	99
125	-0.700	-0.703	1.264	1.169	34.071	5.50	239	94.6	27.389	1028.0	67.6	0.089	1446.7	0.185	215	124
150	-0.550	-0.554	1.433	1.320	34.091	5.08	221	94.8	27.398	1028.1	66.6	0.106	1447.8	0.180	220	148
175	-0.987	-0.992	1.014	0.882	34.071	6.36	277	95.3	27.400	1028.2	66.2	0.122	1446.1	0.177	211	173
200	-0.677	-0.683	1.346	1.195	34.116	5.51	239	95.3	27.424	1028.4	64.0	0.138	1448.1	0.179	205	198
225	-0.268	-0.275	1.776	1.607	34.163	4.69	204	95.1	27.444	1028.5	62.3	0.154	1450.4	0.179	212	222
250	-0.244	-0.253	1.818	1.630	34.168	4.69	204	95.1	27.447	1028.6	62.0	0.170	1451.0	0.174	220	247
275	-0.593	-0.602	1.487	1.280	34.141	5.51	239	95.4	27.441	1028.8	62.2	0.185	1449.7	0.170	216	272
300	-0.977	-0.985	1.122	0.896	34.141	5.98	260	96.3	27.456	1028.9	60.4	0.200	1448.3	0.157	211	297
325	-0.126	-0.138	1.996	1.751	34.212	4.64	202	95.0	27.477	1029.0	59.2	0.215	1452.8	0.156	211	321
350	-0.075	-0.088	2.066	1.802	34.222	4.62	201	95.3	27.483	1029.1	58.6	0.230	1453.5	0.158	216	346
375	-0.021	-0.035	2.140	1.858	34.241	4.59	200	95.2	27.495	1029.3	57.4	0.244	1454.1	0.147	212	371
400	0.019	0.003	2.200	1.898	34.256	4.60	200	95.0	27.506	1029.4	56.5	0.259	1454.8	0.136	199	395
425	0.207	0.190	2.411	2.091	34.332	4.56	198	95.6	27.557	1029.6	51.9	0.272	1456.1	0.090	195	420
450	0.229	0.211	2.454	2.115	34.371	4.66	203	96.7	27.587	1029.7	49.1	0.285	1456.7	0.063	187	445
475	0.396	0.376	2.643	2.285	34.416	4.59	199	96.5	27.614	1029.9	46.8	0.297	1457.9	0.052	173	469
500	0.456	0.434	2.723	2.346	34.446	4.56	198	97.2	27.635	1030.0	44.9	0.308	1458.6	0.042	179	494
550	0.648	0.623	2.957	2.542	34.511	4.51	196	97.7	27.676	1030.3	41.4	0.330	1460.4	0.025	172	543
600	0.847	0.818	3.196	2.744	34.566	4.42	192	97.8	27.708	1030.5	38.8	0.350	1462.2	0.034	174	593
650	0.996	0.964	3.385	2.896	34.610	4.35	189	97.8	27.734	1030.8	36.7	0.369	1463.8	0.040	180	642
700	1.103	1.068	3.532	3.005	34.645	4.32	188	97.8	27.756	1031.0	35.1	0.387	1465.1	0.044	155	691
750	1.159	1.121	3.627	3.062	34.667	4.31	187	97.8	27.770	1031.3	34.0	0.404	1466.2	0.040	160	741
800	1.193	1.151	3.699	3.097	34.679	4.30	187	97.8	27.777	1031.5	33.5	0.421	1467.2	0.037	175	790
850	1.201	1.157	3.746	3.106	34.685	4.30	187	97.8	27.782	1031.8	33.2	0.437	1468.1	0.043	171	839
900	1.211	1.163	3.793	3.116	34.690	4.30	187	97.8	27.786	1032.0	33.1	0.454	1469.0	0.040	162	888
950	1.218	1.167	3.838	3.123	34.694	4.30	187	97.8	27.788	1032.2	33.0	0.471	1469.8	0.039	146	938
1000	1.221	1.167	3.879	3.126	34.696	4.30	187	97.8	27.790	1032.5	33.0	0.487	1470.7	0.036	161	987
1081	1.224	1.164	3.942	3.128	34.697	4.30	187	97.7	27.791	1032.8	33.2	0.514	1472.0			1067

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	035B	2009/01/19	17:37	-75.0129	-101.6123	1081	8	1076	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
21	-0.438	-0.438	34.000	27.320	8.15	354	34.000					7	20
295	-1.178	-1.186	34.121	27.448	6.28	273	34.132	6.26	272			5	292
357	-0.057	-0.070	34.228	27.487	4.60	200	34.238	4.58	199			3	353
1081	1.224	1.164	34.697	27.791	4.30	187	34.696	4.28	186			1	1067

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	035U	2009/01/19	18:06	-75.0136	-101.6149	1081	8	1076	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.414	-0.414	1.450	1.450	33.987	7.63	332	27.309	1027.3	75.5	0.001	1445.9	1
25	-0.552	-0.553	1.332	1.313	34.005	7.92	344	27.329	1027.4	73.5	0.019	1445.7	25
50	-0.874	-0.875	1.030	0.992	34.016	7.15	311	27.351	1027.6	71.3	0.037	1444.6	50
75	-0.955	-0.957	0.969	0.912	34.028	7.04	306	27.364	1027.7	70.0	0.054	1444.6	74
100	-1.025	-1.028	0.917	0.842	34.037	6.53	284	27.374	1027.9	68.9	0.072	1444.7	99
125	-0.891	-0.894	1.071	0.977	34.055	6.15	267	27.383	1028.0	68.0	0.089	1445.8	124
150	-0.549	-0.553	1.434	1.321	34.091	5.09	221	27.399	1028.1	66.6	0.106	1447.8	148
175	-1.062	-1.067	0.939	0.807	34.082	6.28	273	27.412	1028.3	65.0	0.122	1445.8	173
200	-0.918	-0.924	1.103	0.953	34.108	5.73	249	27.428	1028.4	63.5	0.138	1446.9	198
225	-0.353	-0.361	1.690	1.520	34.151	4.90	213	27.438	1028.5	62.8	0.154	1450.0	222
250	-0.245	-0.254	1.817	1.629	34.166	4.68	204	27.446	1028.6	62.1	0.170	1451.0	247
275	-0.468	-0.477	1.614	1.406	34.157	5.05	220	27.449	1028.8	61.6	0.185	1450.3	272
300	-1.120	-1.129	0.978	0.752	34.126	6.20	269	27.450	1028.9	60.8	0.200	1447.6	297
325	-0.201	-0.213	1.920	1.675	34.199	4.80	208	27.470	1029.0	59.7	0.216	1452.4	321
350	-0.083	-0.096	2.058	1.795	34.217	4.61	200	27.479	1029.1	58.9	0.230	1453.4	346
375	-0.009	-0.024	2.152	1.869	34.243	4.58	199	27.497	1029.3	57.3	0.245	1454.2	371
400	0.034	0.019	2.216	1.914	34.262	4.60	200	27.509	1029.4	56.2	0.259	1454.8	395
425	0.151	0.135	2.355	2.035	34.326	4.63	201	27.555	1029.6	52.0	0.273	1455.9	420
450	0.230	0.212	2.455	2.116	34.366	4.66	202	27.583	1029.7	49.5	0.285	1456.7	445
475	0.350	0.330	2.596	2.238	34.409	4.61	200	27.611	1029.9	47.0	0.297	1457.7	469
500	0.432	0.411	2.699	2.322	34.439	4.60	200	27.631	1030.0	45.3	0.309	1458.5	494
550	0.662	0.637	2.970	2.556	34.511	4.51	196	27.675	1030.3	41.5	0.330	1460.5	543
600	0.847	0.819	3.196	2.744	34.562	4.42	192	27.705	1030.5	39.1	0.350	1462.2	593
650	0.999	0.967	3.388	2.899	34.607	4.35	189	27.732	1030.8	37.0	0.370	1463.8	642
700	1.109	1.073	3.538	3.011	34.645	4.32	188	27.755	1031.0	35.1	0.388	1465.1	691
750	1.160	1.121	3.627	3.063	34.664	4.30	187	27.767	1031.3	34.2	0.405	1466.2	741
800	1.192	1.151	3.698	3.096	34.676	4.29	187	27.775	1031.5	33.7	0.422	1467.2	790
850	1.205	1.160	3.749	3.109	34.682	4.30	187	27.779	1031.8	33.5	0.439	1468.1	839
900	1.212	1.164	3.794	3.116	34.688	4.30	187	27.783	1032.0	33.3	0.455	1469.0	888
950	1.219	1.168	3.839	3.124	34.691	4.30	187	27.786	1032.2	33.2	0.472	1469.8	938
1000	1.222	1.168	3.880	3.127	34.693	4.30	187	27.787	1032.5	33.2	0.489	1470.7	987
1081	1.224	1.164	3.942	3.128	34.697	4.30	187	27.791	1032.8	33.2	0.515	1472.0	1067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2.0
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101 36.80 W
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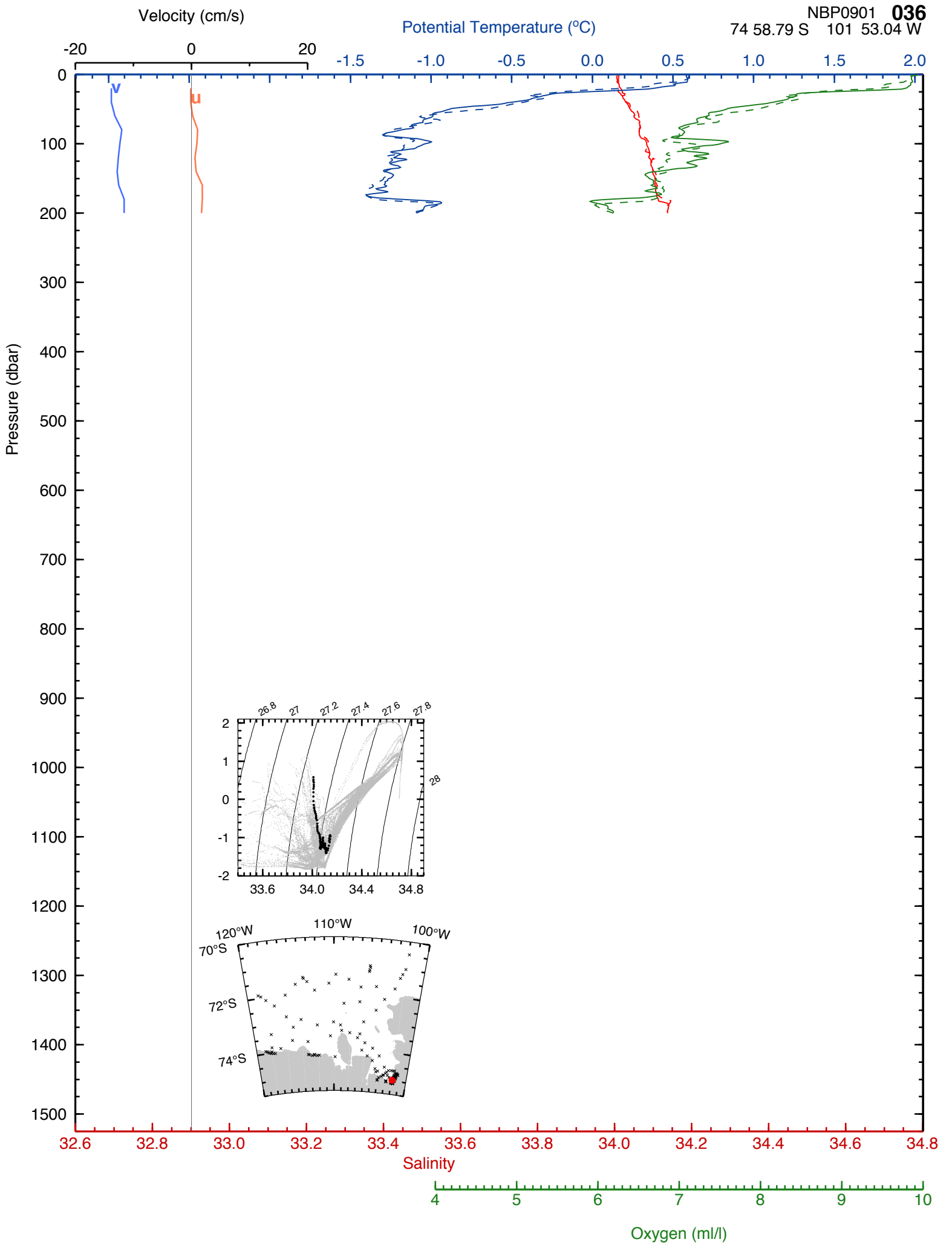
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**036D**	2009/01/19	18:57	-74.9798	-101.8840	200	784	982		10.3	139	-1.2	977.6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.587	0.587	2.453	2.452	34.011	9.86	428	71.3	27.275	1027.3	78.7	0.001	1450.5			1
25	-0.043	-0.044	1.841	1.822	34.010	8.82	384	72.2	27.309	1027.4	75.5	0.020	1448.0	0.138	180	25
50	-0.885	-0.886	1.021	0.983	34.054	7.58	330	83.3	27.383	1027.6	68.3	0.038	1444.6	0.135	180	50
75	-1.118	-1.120	0.807	0.751	34.066	7.04	306	89.7	27.401	1027.8	66.5	0.054	1443.9	0.124	176	74
100	-1.034	-1.037	0.911	0.836	34.084	7.51	326	88.7	27.412	1027.9	65.3	0.071	1444.7	0.123	176	99
125	-1.203	-1.206	0.761	0.667	34.096	7.15	311	89.0	27.428	1028.0	63.6	0.087	1444.3	0.126	177	124
150	-1.259	-1.263	0.725	0.612	34.107	6.63	288	93.9	27.439	1028.2	62.4	0.103	1444.5	0.127	174	148
175	-1.394	-1.398	0.609	0.478	34.114	6.73	292	94.6	27.449	1028.3	61.3	0.118	1444.3	0.121	171	173
200	-1.083	-1.089	0.940	0.790	34.139	6.18	269	96.6	27.458	1028.4	60.5	0.133	1446.2	0.117	172	198

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	036U	2009/01/19	19:11	-74.9795	-101.8832	1	784	982	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.597	0.597	2.463	2.462	34.007	9.94	432	27.272	1027.3	79.0	0.001	1450.5	1
25	-0.201	-0.202	1.684	1.665	34.020	8.68	377	27.325	1027.4	73.9	0.019	1447.3	25
50	-0.671	-0.672	1.234	1.196	34.041	7.95	346	27.363	1027.6	70.2	0.037	1445.5	50
75	-1.121	-1.123	0.805	0.748	34.066	7.12	309	27.401	1027.8	66.4	0.054	1443.9	74
100	-1.149	-1.152	0.796	0.720	34.083	7.16	311	27.416	1027.9	64.9	0.071	1444.2	99
125	-1.244	-1.247	0.721	0.627	34.094	6.84	297	27.428	1028.0	63.6	0.087	1444.2	124
150	-1.292	-1.296	0.692	0.579	34.105	6.72	292	27.438	1028.2	62.5	0.103	1444.3	148
175	-1.396	-1.401	0.607	0.475	34.109	6.78	295	27.445	1028.3	61.7	0.118	1444.2	173
200	-1.083	-1.089	0.940	0.790	34.139	6.18	269	27.458	1028.4	60.5	0.134	1446.2	198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1.5
2.0
NBP0901 036
74 58.79 S 101 53.04 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**037D**	2009/01/20	20:05	-75.0372	-102.0129	922	8	918	2	9.0	171	-1.2	983.5

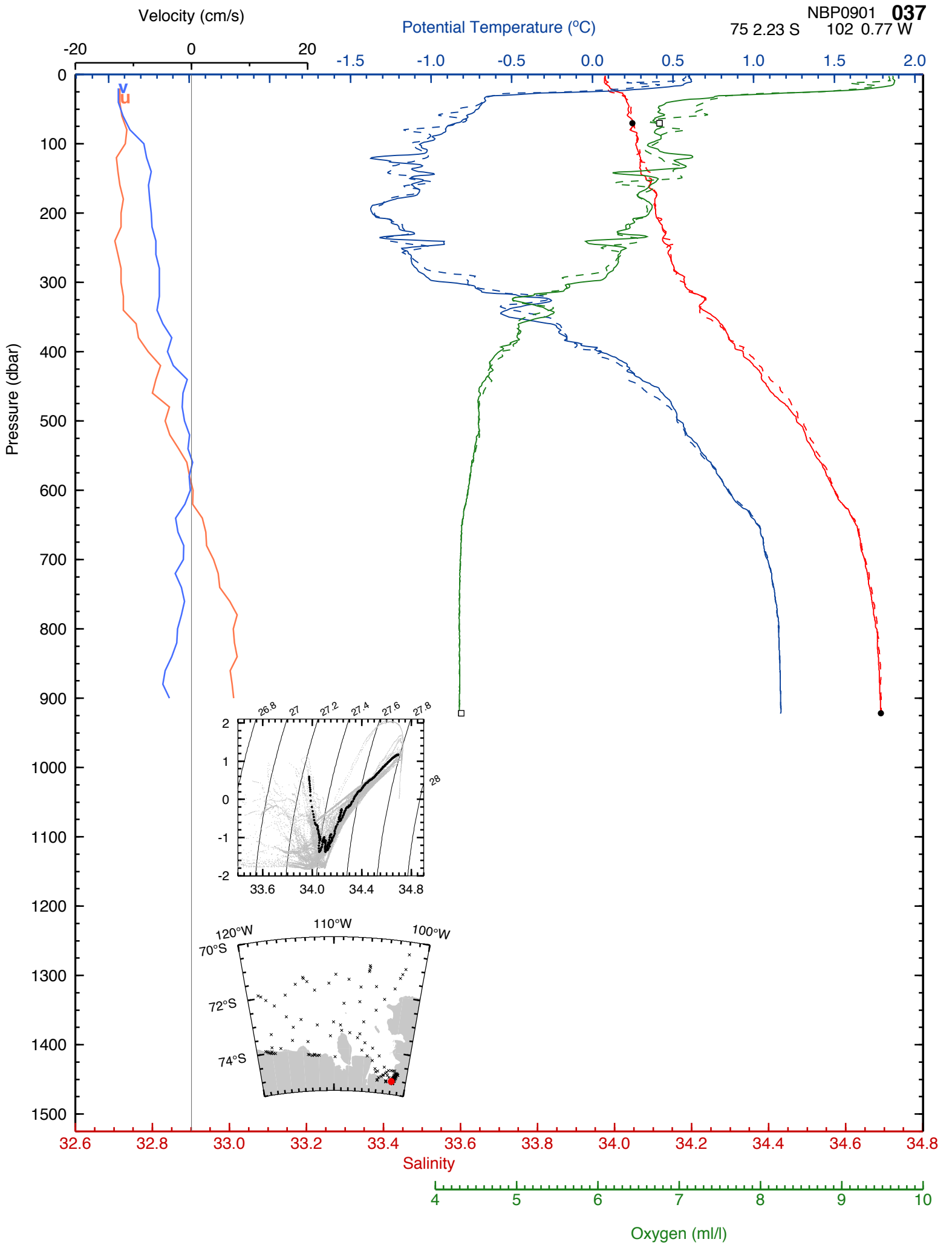
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.592	0.592	2.457	2.456	33.975	9.62	418	68.2	27.246	1027.3	81.4	0.002	1450.5			2
25	-0.035	-0.035	1.849	1.830	33.988	8.65	376	73.7	27.291	1027.4	77.1	0.020	1448.0	0.176	224	25
50	-0.712	-0.713	1.193	1.156	34.042	6.76	294	88.0	27.366	1027.6	69.9	0.038	1445.4	0.172	225	50
75	-0.898	-0.900	1.027	0.970	34.051	6.78	295	91.0	27.381	1027.7	68.4	0.055	1444.9	0.157	226	74
100	-1.063	-1.066	0.880	0.805	34.059	6.63	288	92.8	27.393	1027.9	67.1	0.072	1444.5	0.141	234	99
125	-1.250	-1.253	0.713	0.619	34.071	6.95	302	92.3	27.409	1028.0	65.4	0.089	1444.1	0.149	240	124
150	-1.097	-1.101	0.886	0.773	34.093	6.74	293	94.0	27.422	1028.1	64.1	0.105	1445.2	0.145	240	148
175	-1.095	-1.099	0.908	0.776	34.109	6.49	282	94.1	27.435	1028.3	62.8	0.121	1445.7	0.139	239	173
200	-1.361	-1.366	0.660	0.510	34.108	6.63	288	96.9	27.443	1028.4	61.8	0.137	1444.8	0.139	240	198
225	-1.171	-1.177	0.870	0.701	34.130	6.29	273	96.7	27.455	1028.5	60.7	0.152	1446.2	0.140	241	222
250	-1.146	-1.152	0.915	0.727	34.136	6.34	276	96.6	27.458	1028.7	60.3	0.167	1446.7	0.144	245	247
275	-1.105	-1.112	0.976	0.769	34.150	6.23	271	96.7	27.468	1028.8	59.2	0.182	1447.3	0.136	245	272
300	-0.884	-0.893	1.217	0.991	34.180	5.78	251	97.0	27.485	1028.9	57.8	0.197	1448.8	0.133	246	297
325	-0.247	-0.259	1.876	1.632	34.237	4.95	215	96.2	27.503	1029.0	56.6	0.211	1452.3	0.129	245	321
350	-0.504	-0.516	1.638	1.374	34.235	5.34	232	96.9	27.513	1029.2	55.3	0.225	1451.5	0.124	243	346
375	-0.180	-0.194	1.984	1.702	34.292	5.02	218	96.7	27.545	1029.3	52.7	0.238	1453.5	0.102	246	371
400	0.061	0.045	2.247	1.945	34.340	4.79	208	97.0	27.571	1029.5	50.4	0.251	1455.0	0.088	243	395
425	0.245	0.228	2.452	2.132	34.384	4.70	204	97.2	27.596	1029.6	48.2	0.264	1456.4	0.061	240	420
450	0.404	0.385	2.632	2.293	34.425	4.56	198	97.1	27.621	1029.8	46.2	0.275	1457.5	0.063	262	445
475	0.510	0.490	2.759	2.401	34.459	4.53	197	97.3	27.642	1029.9	44.3	0.287	1458.5	0.056	253	469
500	0.562	0.540	2.832	2.455	34.485	4.54	197	97.5	27.660	1030.0	42.7	0.298	1459.2	0.045	253	494
550	0.722	0.696	3.031	2.617	34.532	4.47	194	97.7	27.689	1030.3	40.3	0.318	1460.8	0.021	260	543
600	0.867	0.838	3.216	2.764	34.572	4.40	191	97.7	27.712	1030.5	38.5	0.338	1462.3	0.004	158	593
650	1.057	1.024	3.447	2.958	34.630	4.32	188	97.9	27.746	1030.8	35.7	0.357	1464.1	0.033	144	642
700	1.121	1.086	3.551	3.023	34.651	4.31	187	97.8	27.759	1031.0	34.8	0.374	1465.2	0.035	113	691
750	1.170	1.131	3.638	3.073	34.669	4.29	187	97.9	27.771	1031.3	33.9	0.391	1466.3	0.052	109	741
800	1.198	1.156	3.704	3.102	34.683	4.29	186	97.9	27.780	1031.5	33.2	0.408	1467.2	0.079	105	790
850	1.207	1.162	3.752	3.112	34.690	4.30	187	97.9	27.785	1031.8	32.9	0.425	1468.1	0.086	113	839
900	1.215	1.167	3.797	3.119	34.692	4.30	187	97.8	27.787	1032.0	33.0	0.441	1469.0	0.084	122	888
922	1.217	1.167	3.816	3.122	34.694	4.29	187	97.8	27.788	1032.1	32.9	0.448	1469.4			910

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	037B	2009/01/20	20:29	-75.0372	-102.0129	922	8	918	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
70	-0.817	-0.819	34.046	27.373	6.64	289	34.047	6.76	294			7	69
922	1.217	1.167	34.694	27.788	4.30	187	34.692	4.32	188			2,1	910

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	037U	2009/01/20	20:52	-75.0373	-102.0137	922	8	918	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	0.579	0.578	2.444	2.442	33.976	9.58	417	27.248	1027.3	81.2	0.002	1450.4	2
25	-0.157	-0.158	1.727	1.708	34.008	8.73	380	27.314	1027.4	75.0	0.020	1447.5	25
50	-0.833	-0.834	1.072	1.034	34.035	7.29	317	27.365	1027.6	70.0	0.038	1444.8	50
75	-0.912	-0.914	1.012	0.955	34.050	6.73	293	27.381	1027.7	68.4	0.055	1444.8	74
100	-1.125	-1.127	0.819	0.744	34.055	6.71	291	27.392	1027.9	67.1	0.072	1444.2	99
125	-1.099	-1.103	0.864	0.769	34.067	6.81	296	27.401	1028.0	66.2	0.089	1444.8	124
150	-1.129	-1.133	0.854	0.741	34.082	7.00	304	27.414	1028.1	64.9	0.105	1445.1	148
175	-1.169	-1.174	0.834	0.702	34.109	6.48	282	27.438	1028.3	62.5	0.121	1445.3	173
200	-1.346	-1.351	0.676	0.525	34.106	6.61	287	27.441	1028.4	61.9	0.137	1444.9	198
225	-1.156	-1.162	0.886	0.716	34.126	6.33	275	27.451	1028.5	61.1	0.152	1446.2	222
250	-1.023	-1.030	1.038	0.850	34.146	6.04	263	27.462	1028.7	60.0	0.167	1447.3	247
275	-1.048	-1.056	1.032	0.825	34.152	6.14	267	27.468	1028.8	59.3	0.182	1447.6	272
300	-0.763	-0.772	1.339	1.113	34.181	5.62	244	27.481	1028.9	58.3	0.197	1449.4	297
325	-0.270	-0.281	1.853	1.609	34.234	4.95	215	27.502	1029.0	56.7	0.211	1452.2	321
350	-0.273	-0.285	1.870	1.607	34.259	5.12	223	27.522	1029.2	54.7	0.225	1452.6	346
375	-0.153	-0.166	2.012	1.729	34.293	5.00	218	27.544	1029.3	52.7	0.239	1453.6	371
400	0.070	0.055	2.255	1.954	34.334	4.80	209	27.565	1029.5	51.0	0.252	1455.1	395
425	0.237	0.220	2.444	2.124	34.371	4.66	203	27.587	1029.6	49.1	0.264	1456.3	420
450	0.310	0.292	2.537	2.198	34.396	4.64	201	27.603	1029.7	47.7	0.276	1457.1	445
475	0.465	0.445	2.713	2.356	34.441	4.54	197	27.631	1029.9	45.3	0.288	1458.3	469
500	0.547	0.525	2.815	2.439	34.473	4.53	197	27.651	1030.0	43.5	0.299	1459.1	494
550	0.703	0.678	3.012	2.598	34.521	4.48	195	27.681	1030.3	41.0	0.320	1460.7	543
600	0.874	0.846	3.224	2.772	34.571	4.40	191	27.710	1030.5	38.6	0.340	1462.3	593
650	1.062	1.030	3.452	2.963	34.627	4.33	188	27.744	1030.8	35.9	0.358	1464.1	642
700	1.125	1.089	3.554	3.027	34.649	4.31	187	27.757	1031.0	34.9	0.376	1465.2	691
750	1.168	1.129	3.636	3.071	34.666	4.30	187	27.768	1031.3	34.2	0.393	1466.3	741
800	1.196	1.155	3.703	3.100	34.680	4.29	187	27.778	1031.5	33.4	0.410	1467.2	790
850	1.206	1.161	3.750	3.111	34.686	4.30	187	27.782	1031.8	33.2	0.427	1468.1	839
900	1.215	1.167	3.797	3.119	34.690	4.30	187	27.785	1032.0	33.1	0.444	1469.0	888
922	1.217	1.167	3.816	3.122	34.694	4.29	187	27.788	1032.1	32.9	0.451	1469.4	910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20
v
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1.0
1.5
2.0
NBP0901 037
75 2.23 S
102 0.77 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**038D**	2009/01/20	23:08	-74.9450	-101.8435	1005	8	1000	4	10.6	157	-0.3	983.4

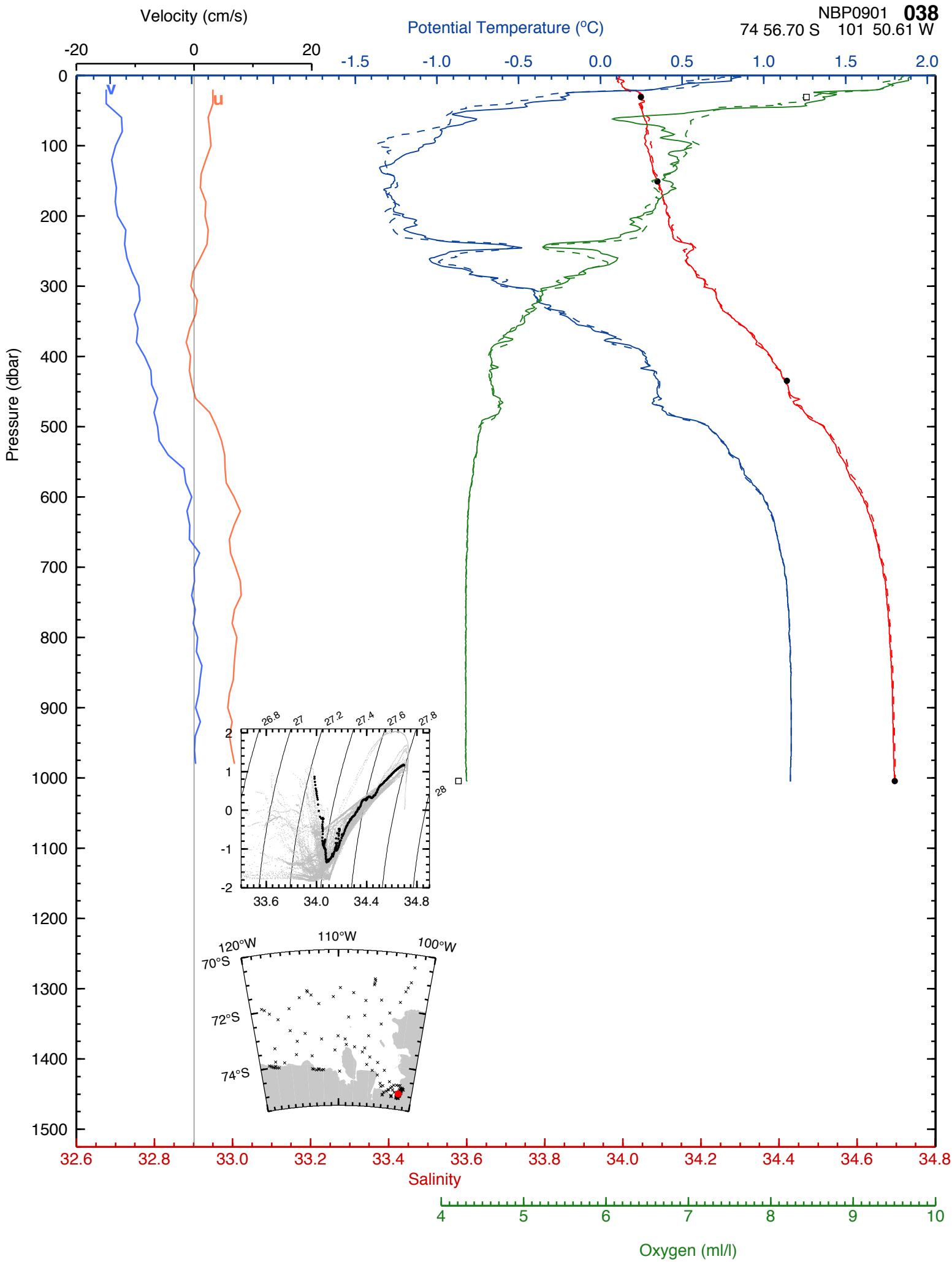
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.863	0.863	2.729	2.727	33.983	9.69	421	69.1	27.237	1027.2	82.3	0.002	1451.7			2
25	-0.211	-0.212	1.675	1.656	34.038	8.62	375	79.0	27.340	1027.5	72.5	0.020	1447.3	0.152	168	25
50	-0.779	-0.780	1.127	1.089	34.048	7.21	314	81.0	27.373	1027.6	69.2	0.038	1445.1	0.139	168	50
75	-0.946	-0.948	0.979	0.922	34.060	6.71	292	91.1	27.389	1027.7	67.6	0.055	1444.7	0.125	168	74
100	-1.082	-1.085	0.862	0.787	34.073	7.01	305	92.6	27.405	1027.9	65.9	0.071	1444.5	0.135	168	99
125	-1.268	-1.271	0.696	0.601	34.078	6.80	296	95.2	27.415	1028.0	64.8	0.088	1444.0	0.140	172	124
150	-1.256	-1.260	0.727	0.614	34.089	6.74	293	95.6	27.424	1028.1	63.9	0.104	1444.5	0.135	175	148
175	-1.272	-1.277	0.730	0.599	34.103	6.66	290	95.2	27.436	1028.3	62.6	0.119	1444.8	0.134	173	173
200	-1.206	-1.211	0.816	0.666	34.117	6.43	279	95.6	27.445	1028.4	61.7	0.135	1445.6	0.132	172	198
225	-1.128	-1.134	0.914	0.745	34.135	6.21	270	96.8	27.457	1028.5	60.5	0.150	1446.4	0.118	168	222
250	-0.885	-0.892	1.178	0.990	34.158	5.92	257	96.0	27.467	1028.7	59.6	0.165	1448.0	0.118	171	247
275	-0.842	-0.850	1.240	1.033	34.183	5.79	251	97.1	27.485	1028.8	57.8	0.180	1448.6	0.109	178	272
300	-0.548	-0.558	1.555	1.329	34.221	5.37	233	96.8	27.504	1028.9	56.3	0.194	1450.4	0.096	183	297
325	-0.339	-0.350	1.785	1.541	34.248	5.12	223	96.8	27.517	1029.1	55.2	0.208	1451.9	0.093	177	321
350	-0.154	-0.167	1.991	1.727	34.288	5.01	218	96.8	27.540	1029.2	53.1	0.222	1453.2	0.099	180	346
375	0.063	0.049	2.230	1.947	34.335	4.87	211	96.6	27.567	1029.3	50.8	0.235	1454.7	0.097	186	371
400	0.293	0.276	2.480	2.179	34.377	4.60	200	96.8	27.589	1029.5	49.0	0.247	1456.2	0.087	185	395
425	0.344	0.326	2.552	2.232	34.407	4.61	200	97.2	27.609	1029.6	47.1	0.259	1456.8	0.073	186	420
450	0.366	0.347	2.595	2.256	34.424	4.64	202	97.4	27.622	1029.8	46.0	0.271	1457.4	0.070	181	445
475	0.396	0.376	2.645	2.288	34.461	4.72	205	97.8	27.651	1029.9	43.4	0.282	1458.0	0.067	168	469
500	0.686	0.663	2.957	2.580	34.516	4.48	195	97.6	27.678	1030.0	41.2	0.293	1459.8	0.073	151	494
550	0.877	0.851	3.189	2.775	34.574	4.40	191	97.8	27.712	1030.3	38.4	0.312	1461.5	0.066	126	543
600	1.026	0.997	3.379	2.927	34.618	4.34	189	97.9	27.739	1030.6	36.2	0.331	1463.1	0.064	97	593
650	1.109	1.076	3.501	3.011	34.648	4.32	188	97.9	27.758	1030.8	34.8	0.349	1464.3	0.067	96	642
700	1.161	1.125	3.591	3.064	34.669	4.30	187	97.9	27.771	1031.1	33.7	0.366	1465.4	0.068	86	691
750	1.185	1.146	3.654	3.089	34.679	4.30	187	97.9	27.778	1031.3	33.3	0.383	1466.4	0.080	93	741
800	1.199	1.157	3.706	3.103	34.686	4.30	187	97.9	27.783	1031.5	33.0	0.399	1467.2	0.069	88	790
850	1.211	1.166	3.755	3.115	34.692	4.30	187	97.9	27.786	1031.8	32.8	0.416	1468.1	0.069	79	839
900	1.214	1.166	3.797	3.119	34.694	4.30	187	97.9	27.788	1032.0	32.8	0.432	1469.0	0.059	84	888
950	1.217	1.166	3.838	3.122	34.696	4.30	187	97.8	27.790	1032.2	32.8	0.448	1469.8	0.061	87	938
1000	1.216	1.162	3.874	3.121	34.697	4.31	187	97.7	27.791	1032.5	32.8	0.465	1470.7			987
1005	1.216	1.162	3.878	3.121	34.696	4.31	187	97.8	27.790	1032.5	32.9	0.467	1470.7			992

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	038B	2009/01/20	23:33	-74.9450	-101.8445	1004	8	1000	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
30	-0.370	-0.371	34.048	27.355	8.37	364	34.046	8.44	367			7	30
151	-1.229	-1.233	34.092	27.425	6.54	284	34.089					6	149
435	0.379	0.360	34.417	27.616	4.59	199	34.420					4	430
1004	1.216	1.162	34.697	27.791	4.30	187	34.697	4.21	183			2	991

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	038U	2009/01/20	23:58	-74.9450	-101.8441	1004	8	1000	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.856	0.856	2.721	2.721	33.988	9.62	418	27.241	1027.2	82.0	0.001	1451.7	1
25	-0.245	-0.246	1.641	1.623	34.045	8.70	378	27.348	1027.5	71.8	0.020	1447.1	25
50	-0.892	-0.893	1.013	0.976	34.049	7.29	317	27.379	1027.6	68.7	0.037	1444.5	50
75	-1.014	-1.016	0.911	0.854	34.062	7.01	305	27.393	1027.8	67.2	0.054	1444.4	74
100	-1.366	-1.368	0.578	0.503	34.059	7.12	310	27.404	1027.9	66.0	0.071	1443.1	99
125	-1.314	-1.317	0.650	0.556	34.074	6.86	298	27.414	1028.0	64.9	0.087	1443.8	124
150	-1.235	-1.239	0.748	0.635	34.089	6.56	285	27.424	1028.1	63.9	0.103	1444.6	148
175	-1.300	-1.304	0.703	0.571	34.103	6.63	288	27.437	1028.3	62.5	0.119	1444.7	173
200	-1.211	-1.216	0.811	0.661	34.118	6.42	279	27.446	1028.4	61.6	0.135	1445.5	198
225	-1.240	-1.246	0.801	0.632	34.127	6.43	280	27.454	1028.5	60.6	0.150	1445.8	222
250	-0.704	-0.711	1.359	1.171	34.172	5.42	235	27.471	1028.7	59.4	0.165	1448.8	247
275	-0.800	-0.808	1.283	1.076	34.180	5.79	251	27.481	1028.8	58.3	0.180	1448.8	272
300	-0.593	-0.603	1.510	1.284	34.210	5.50	239	27.497	1028.9	56.8	0.194	1450.2	297
325	-0.343	-0.354	1.781	1.536	34.248	5.16	224	27.517	1029.1	55.2	0.208	1451.8	321
350	-0.121	-0.134	2.024	1.761	34.291	4.96	216	27.540	1029.2	53.1	0.222	1453.3	346
375	0.127	0.112	2.293	2.011	34.339	4.73	206	27.567	1029.3	50.9	0.235	1454.9	371
400	0.302	0.285	2.489	2.188	34.378	4.58	199	27.589	1029.5	49.0	0.247	1456.2	395
425	0.362	0.344	2.570	2.250	34.406	4.58	199	27.608	1029.6	47.3	0.259	1456.9	420
450	0.379	0.360	2.607	2.268	34.426	4.62	201	27.623	1029.8	45.9	0.271	1457.4	445
475	0.417	0.397	2.666	2.309	34.459	4.68	204	27.648	1029.9	43.6	0.282	1458.1	469
500	0.695	0.673	2.966	2.590	34.514	4.46	194	27.675	1030.0	41.5	0.293	1459.8	494
550	0.865	0.839	3.177	2.763	34.567	4.40	191	27.708	1030.3	38.8	0.313	1461.5	543
600	1.022	0.993	3.374	2.922	34.614	4.34	189	27.736	1030.6	36.5	0.332	1463.1	593
650	1.108	1.075	3.499	3.010	34.644	4.32	188	27.754	1030.8	35.0	0.349	1464.3	642
700	1.161	1.126	3.592	3.064	34.666	4.30	187	27.768	1031.1	34.0	0.367	1465.4	691
750	1.184	1.145	3.653	3.088	34.676	4.30	187	27.776	1031.3	33.5	0.384	1466.3	741
800	1.197	1.155	3.704	3.101	34.683	4.30	187	27.780	1031.5	33.2	0.400	1467.2	790
850	1.210	1.166	3.755	3.115	34.689	4.30	187	27.784	1031.8	33.1	0.417	1468.1	839
900	1.214	1.166	3.797	3.119	34.691	4.30	187	27.786	1032.0	33.0	0.433	1469.0	888
950	1.217	1.166	3.837	3.122	34.693	4.30	187	27.787	1032.2	33.0	0.450	1469.8	938
1000	1.216	1.162	3.874	3.121	34.695	4.31	187	27.790	1032.5	33.0	0.466	1470.7	987
1005	1.216	1.162	3.878	3.121	34.696	4.31	187	27.790	1032.5	32.9	0.468	1470.7	992


NBP0901 038
74 56.70 S 101 50.61 W
Velocity (cm/s)
-20
0
20
v
u
Potential Temperature (°C)
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**039D**	2009/01/21	00:34	-74.9119	-101.8098	942	9	939	3	8.0	154	-0.2	983.1

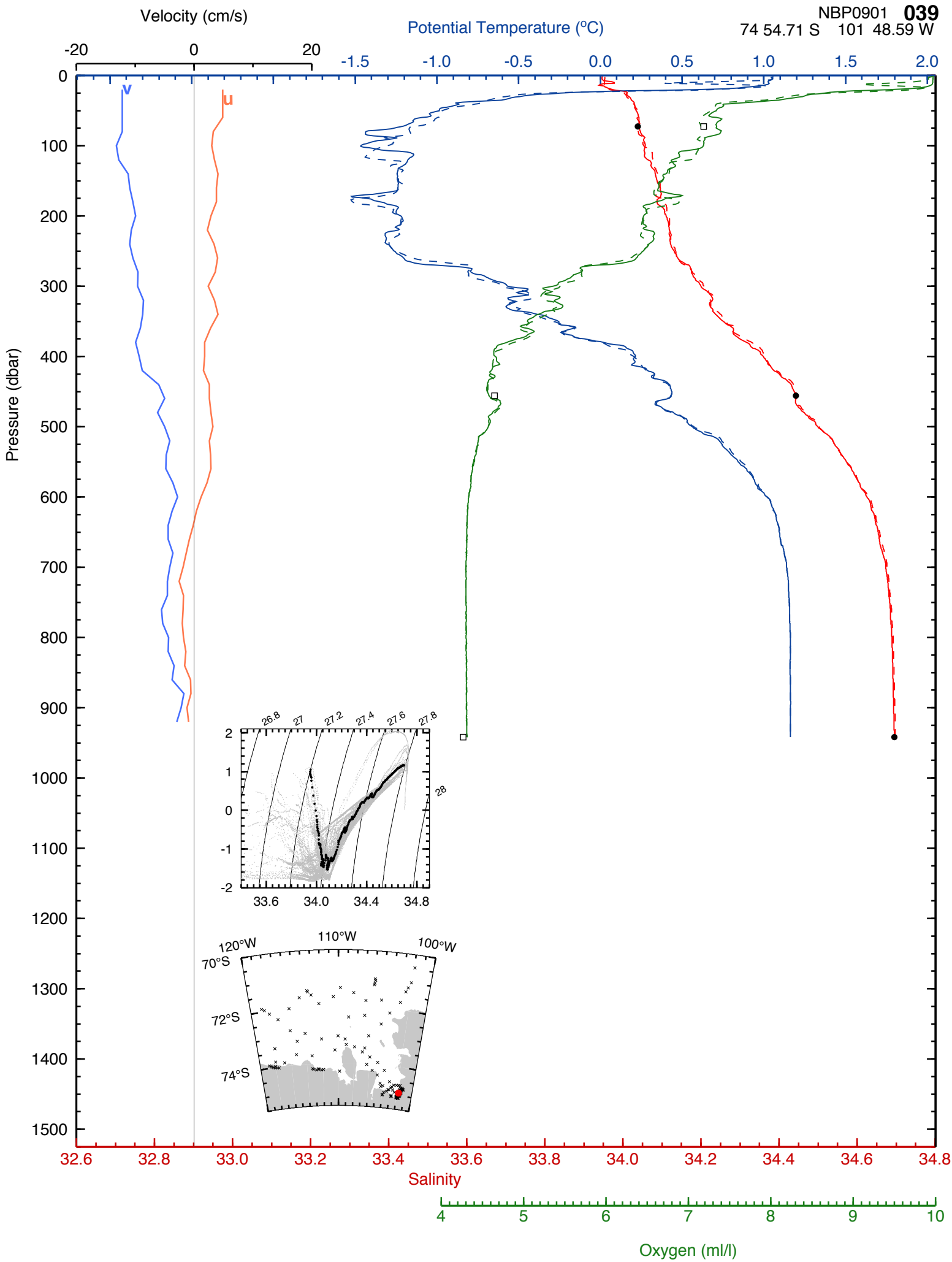
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	1.042	1.042	2.906	2.905	33.953	9.97	433	68.3	27.201	1027.2	85.7	0.002	1452.5			2
25	-0.247	-0.248	1.637	1.618	34.004	8.65	376	76.9	27.315	1027.4	74.9	0.021	1447.1	0.131	158	25
50	-0.986	-0.987	0.919	0.881	34.036	7.34	319	89.5	27.372	1027.6	69.3	0.039	1444.1	0.131	158	50
75	-1.259	-1.261	0.665	0.609	34.043	7.34	319	90.9	27.387	1027.7	67.7	0.056	1443.2	0.128	163	74
100	-1.464	-1.466	0.480	0.404	34.053	7.18	312	94.6	27.402	1027.9	66.1	0.073	1442.6	0.135	167	99
125	-1.186	-1.189	0.778	0.684	34.080	6.82	296	93.8	27.415	1028.0	64.9	0.089	1444.4	0.130	164	124
150	-1.237	-1.240	0.746	0.634	34.093	6.67	290	94.8	27.427	1028.1	63.6	0.105	1444.6	0.117	160	148
175	-1.429	-1.433	0.573	0.441	34.098	6.73	293	96.2	27.437	1028.3	62.5	0.121	1444.1	0.112	160	173
200	-1.216	-1.221	0.806	0.656	34.117	6.46	281	96.8	27.446	1028.4	61.6	0.136	1445.5	0.104	163	198
225	-1.311	-1.316	0.730	0.561	34.118	6.59	286	96.8	27.450	1028.5	61.0	0.152	1445.5	0.110	167	222
250	-1.254	-1.260	0.807	0.619	34.135	6.45	280	97.0	27.462	1028.7	59.8	0.167	1446.2	0.113	161	247
275	-0.778	-0.786	1.304	1.097	34.175	5.69	247	96.8	27.477	1028.8	58.7	0.182	1448.9	0.106	159	272
300	-0.558	-0.568	1.544	1.319	34.208	5.36	233	96.8	27.494	1028.9	57.2	0.196	1450.4	0.100	165	297
325	-0.538	-0.549	1.584	1.340	34.225	5.44	236	96.8	27.507	1029.1	55.9	0.210	1450.9	0.093	158	321
350	-0.243	-0.256	1.900	1.637	34.266	5.05	219	96.7	27.526	1029.2	54.4	0.224	1452.7	0.096	157	346
375	-0.086	-0.100	2.079	1.797	34.312	4.92	214	96.8	27.556	1029.3	51.7	0.237	1453.9	0.098	167	371
400	0.231	0.214	2.418	2.116	34.364	4.66	202	96.7	27.581	1029.5	49.6	0.250	1455.9	0.096	169	395
425	0.350	0.333	2.558	2.238	34.403	4.61	200	97.0	27.606	1029.6	47.5	0.262	1456.9	0.089	170	420
450	0.456	0.436	2.685	2.346	34.443	4.56	198	97.3	27.633	1029.8	45.1	0.274	1457.8	0.063	156	445
475	0.408	0.388	2.657	2.299	34.459	4.67	203	97.8	27.648	1029.9	43.6	0.285	1458.0	0.062	154	469
500	0.584	0.562	2.854	2.478	34.502	4.57	199	97.9	27.673	1030.0	41.6	0.295	1459.3	0.062	150	494
550	0.869	0.843	3.181	2.767	34.572	4.40	191	97.8	27.712	1030.3	38.4	0.315	1461.5	0.055	149	543
600	1.047	1.017	3.400	2.948	34.629	4.33	188	97.9	27.746	1030.6	35.6	0.334	1463.2	0.034	154	593
650	1.127	1.094	3.519	3.030	34.657	4.31	187	98.0	27.764	1030.8	34.2	0.351	1464.4	0.044	182	642
700	1.175	1.139	3.606	3.079	34.677	4.30	187	98.0	27.776	1031.1	33.3	0.368	1465.5	0.042	203	691
750	1.195	1.156	3.664	3.099	34.687	4.30	187	98.0	27.783	1031.3	32.8	0.385	1466.4	0.048	202	741
800	1.203	1.161	3.710	3.108	34.692	4.30	187	98.0	27.787	1031.5	32.6	0.401	1467.3	0.052	202	790
850	1.206	1.161	3.750	3.110	34.694	4.31	187	98.0	27.789	1031.8	32.6	0.417	1468.1	0.038	205	839
900	1.211	1.163	3.793	3.115	34.697	4.30	187	98.0	27.791	1032.0	32.6	0.434	1469.0	0.021	202	888
942	1.212	1.162	3.827	3.117	34.697	4.31	187	97.9	27.791	1032.2	32.7	0.447	1469.7			930

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	039B	2009/01/21	00:58	-74.9119	-101.8091	942	9	939	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
73	-1.104	-1.105	34.041	27.380	7.16	311		34.038	7.19	312			5	72
456	0.453	0.434	34.444	27.633	4.57	199		34.443	4.65	202			3	450
942	1.213	1.162	34.697	27.791	4.31	187		34.695	4.27	185			1	930

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	039U	2009/01/21	01:21	-74.9116	-101.8074	942	9	939	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	1.056	1.056	2.918	2.918	33.947	9.98	434	27.195	1027.2	86.3	0.001	1452.5	1
25	-0.341	-0.342	1.543	1.524	34.011	8.70	378	27.324	1027.4	74.0	0.021	1446.6	25
50	-0.968	-0.969	0.937	0.899	34.034	7.28	317	27.369	1027.6	69.6	0.039	1444.2	50
75	-1.167	-1.169	0.757	0.700	34.042	7.16	311	27.383	1027.7	68.1	0.056	1443.6	74
100	-1.299	-1.302	0.644	0.569	34.057	7.12	309	27.400	1027.9	66.4	0.073	1443.4	99
125	-1.222	-1.225	0.741	0.647	34.074	6.78	295	27.410	1028.0	65.3	0.089	1444.2	124
150	-1.232	-1.236	0.751	0.638	34.087	6.68	291	27.422	1028.1	64.1	0.105	1444.6	148
175	-1.483	-1.487	0.519	0.388	34.092	6.78	295	27.434	1028.3	62.7	0.121	1443.8	173
200	-1.218	-1.223	0.804	0.653	34.111	6.46	281	27.441	1028.4	62.1	0.137	1445.5	198
225	-1.226	-1.232	0.816	0.646	34.123	6.43	279	27.451	1028.5	61.0	0.152	1445.9	222
250	-1.240	-1.246	0.821	0.633	34.131	6.43	280	27.458	1028.7	60.2	0.167	1446.2	247
275	-0.790	-0.799	1.292	1.084	34.173	5.69	247	27.476	1028.8	58.8	0.182	1448.8	272
300	-0.583	-0.592	1.520	1.294	34.200	5.44	236	27.489	1028.9	57.7	0.197	1450.2	297
325	-0.547	-0.558	1.575	1.330	34.222	5.42	235	27.505	1029.1	56.1	0.211	1450.8	321
350	-0.277	-0.289	1.866	1.603	34.257	5.12	222	27.521	1029.2	54.8	0.225	1452.6	346
375	-0.102	-0.116	2.062	1.780	34.299	5.02	218	27.546	1029.3	52.6	0.238	1453.8	371
400	0.221	0.205	2.407	2.106	34.359	4.65	202	27.578	1029.5	49.9	0.251	1455.8	395
425	0.349	0.332	2.557	2.237	34.401	4.59	200	27.604	1029.6	47.6	0.263	1456.9	420
450	0.454	0.435	2.683	2.344	34.439	4.55	198	27.629	1029.8	45.4	0.275	1457.8	445
475	0.406	0.385	2.654	2.297	34.456	4.69	204	27.645	1029.9	43.9	0.286	1458.0	469
500	0.593	0.571	2.863	2.487	34.499	4.57	199	27.670	1030.0	41.8	0.297	1459.3	494
550	0.887	0.861	3.199	2.785	34.573	4.39	191	27.711	1030.3	38.5	0.317	1461.6	543
600	1.049	1.020	3.402	2.950	34.625	4.33	188	27.743	1030.6	35.9	0.335	1463.2	593
650	1.128	1.095	3.520	3.030	34.654	4.31	187	27.761	1030.8	34.5	0.353	1464.4	642
700	1.176	1.140	3.606	3.079	34.673	4.30	187	27.774	1031.1	33.5	0.370	1465.5	691
750	1.195	1.156	3.664	3.099	34.684	4.30	187	27.781	1031.3	33.0	0.387	1466.4	741
800	1.203	1.161	3.710	3.108	34.689	4.30	187	27.785	1031.5	32.8	0.403	1467.3	790
850	1.206	1.161	3.750	3.110	34.691	4.30	187	27.787	1031.8	32.8	0.419	1468.1	839
900	1.211	1.163	3.793	3.115	34.694	4.31	187	27.788	1032.0	32.8	0.436	1469.0	888
942	1.212	1.162	3.827	3.117	34.697	4.31	187	27.791	1032.2	32.7	0.450	1469.7	930


NBP0901 039
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Velocity (cm/s)
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0
20
v
u
Potential Temperature (°C)
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
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1000
1100
1200
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1400
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33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
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33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**040D**	2009/01/21	01:57	-74.8803	-101.7774	782	9	782	4	6.6	163	-1.3	982.8

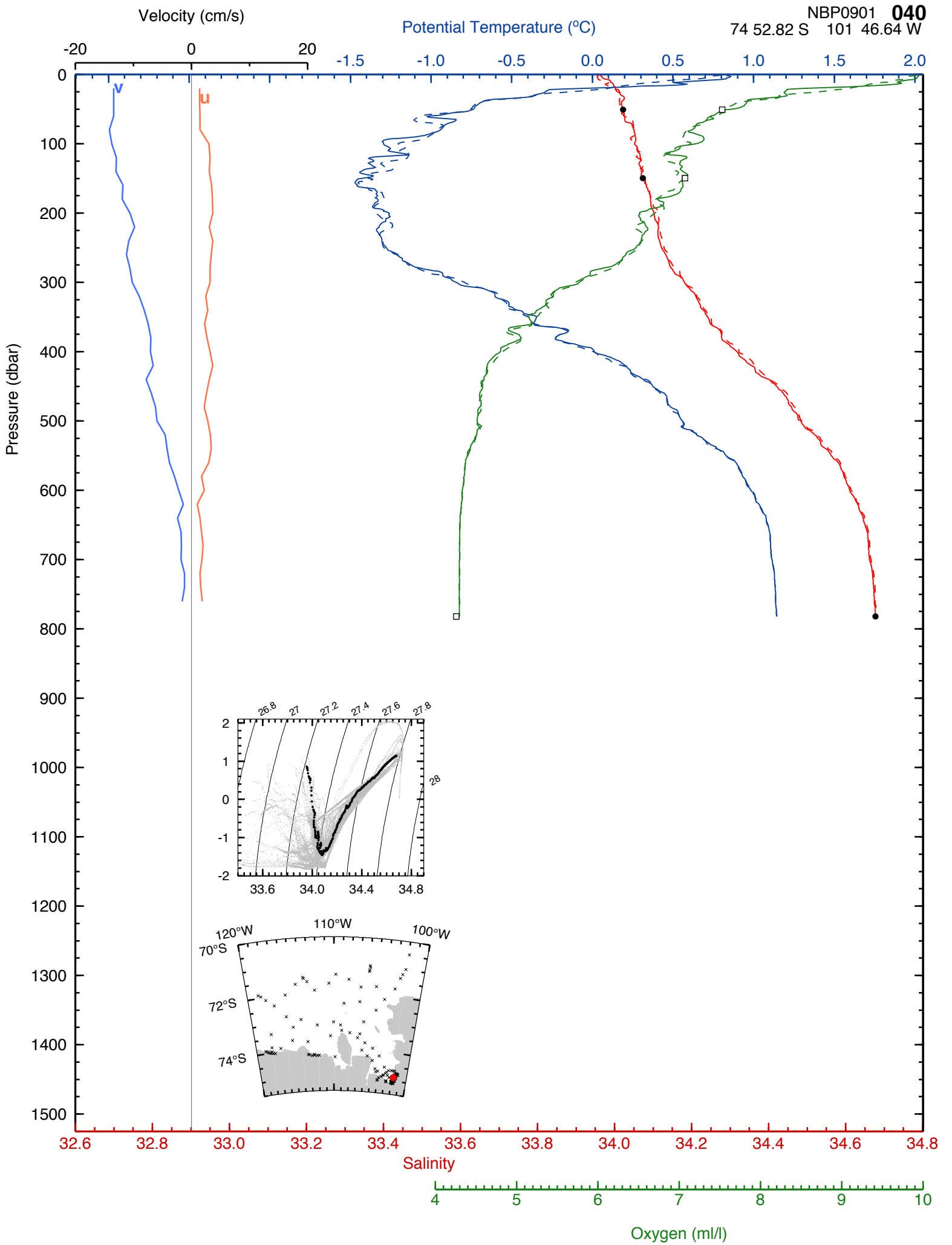
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.829	0.829	2.692	2.691	33.958	9.93	432	67.3	27.218	1027.2	84.1	0.001	1451.5			1
25	-0.291	-0.292	1.594	1.575	34.013	8.30	361	79.2	27.323	1027.4	74.1	0.020	1446.9	0.135	174	25
50	-0.736	-0.738	1.167	1.130	34.020	7.64	332	86.4	27.349	1027.6	71.6	0.038	1445.2	0.135	174	50
75	-0.920	-0.922	1.004	0.948	34.050	7.20	313	88.3	27.380	1027.7	68.5	0.056	1444.8	0.140	174	74
100	-1.292	-1.295	0.651	0.575	34.050	7.21	313	89.6	27.394	1027.9	67.0	0.073	1443.5	0.140	168	99
125	-1.353	-1.356	0.610	0.516	34.067	7.02	305	94.2	27.410	1028.0	65.3	0.089	1443.6	0.133	166	124
150	-1.431	-1.435	0.551	0.438	34.078	7.04	306	95.0	27.421	1028.1	64.1	0.105	1443.6	0.129	165	148
175	-1.327	-1.332	0.675	0.543	34.093	6.92	301	94.4	27.430	1028.3	63.2	0.121	1444.6	0.124	163	173
200	-1.256	-1.262	0.766	0.615	34.114	6.51	283	95.6	27.445	1028.4	61.7	0.137	1445.3	0.113	161	198
225	-1.333	-1.339	0.708	0.539	34.117	6.60	287	96.5	27.450	1028.5	61.0	0.152	1445.4	0.104	162	222
250	-1.270	-1.277	0.790	0.602	34.129	6.46	281	97.0	27.457	1028.7	60.3	0.167	1446.1	0.115	162	247
275	-1.115	-1.123	0.965	0.758	34.150	6.20	270	97.1	27.469	1028.8	59.1	0.182	1447.3	0.113	163	272
300	-0.835	-0.844	1.266	1.040	34.184	5.77	251	97.1	27.486	1028.9	57.7	0.197	1449.0	0.108	163	297
325	-0.542	-0.553	1.580	1.336	34.222	5.37	233	96.7	27.504	1029.1	56.2	0.211	1450.9	0.093	164	321
350	-0.333	-0.345	1.810	1.546	34.252	5.15	224	96.7	27.519	1029.2	54.9	0.225	1452.3	0.084	162	346
375	-0.182	-0.196	1.981	1.699	34.279	5.02	218	96.7	27.534	1029.3	53.7	0.239	1453.4	0.076	161	371
400	0.027	0.012	2.212	1.911	34.323	4.80	209	96.8	27.559	1029.5	51.5	0.252	1454.9	0.077	156	395
425	0.243	0.226	2.449	2.129	34.372	4.63	201	96.9	27.587	1029.6	49.1	0.264	1456.3	0.076	151	420
450	0.394	0.375	2.623	2.284	34.425	4.58	199	97.3	27.622	1029.8	46.1	0.276	1457.5	0.082	159	445
475	0.489	0.469	2.739	2.381	34.461	4.56	198	97.5	27.645	1029.9	44.0	0.287	1458.4	0.070	160	469
500	0.579	0.557	2.848	2.472	34.486	4.52	196	97.5	27.660	1030.0	42.7	0.298	1459.2	0.065	156	494
550	0.854	0.828	3.166	2.752	34.567	4.40	191	97.8	27.709	1030.3	38.7	0.318	1461.4	0.053	141	543
600	1.011	0.982	3.363	2.911	34.614	4.33	188	97.8	27.737	1030.6	36.4	0.337	1463.0	0.032	140	593
650	1.119	1.087	3.511	3.022	34.654	4.30	187	97.8	27.761	1030.8	34.4	0.355	1464.4	0.028	147	642
700	1.150	1.114	3.580	3.053	34.666	4.30	187	98.0	27.769	1031.1	33.9	0.372	1465.4	0.025	133	691
750	1.174	1.135	3.642	3.078	34.677	4.30	187	98.0	27.777	1031.3	33.4	0.388	1466.3	0.020	127	741
782	1.183	1.142	3.675	3.087	34.679	4.29	187	98.0	27.778	1031.4	33.4	0.399	1466.9			772

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	040B	2009/01/21	02:18	-74.8801	-101.7762	782	9	782	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
51	-0.823	-0.824	34.028	27.359	7.50	326	34.022	7.53	327			18	50
150	-1.354	-1.358	34.075	27.416	7.08	308	34.074	7.07	307			9	148
500	0.580	0.558	34.484	27.659	4.51	196						5	494
782	1.183	1.142	34.679	27.778	4.29	186	34.678	4.26	185			1	772

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	040U	2009/01/21	02:41	-74.8802	-101.7768	782	9	782	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.794	0.794	2.658	2.657	33.962	9.92	431	27.223	1027.2	83.6	0.001	1451.4	1
25	-0.143	-0.144	1.741	1.722	34.008	8.72	379	27.312	1027.4	75.1	0.020	1447.6	25
50	-0.756	-0.757	1.148	1.111	34.022	7.55	328	27.351	1027.6	71.3	0.038	1445.1	50
75	-0.929	-0.931	0.995	0.938	34.046	7.18	312	27.378	1027.7	68.7	0.055	1444.8	74
100	-1.202	-1.205	0.741	0.666	34.052	7.14	310	27.393	1027.9	67.1	0.072	1443.9	99
125	-1.254	-1.258	0.709	0.614	34.067	6.85	298	27.407	1028.0	65.6	0.089	1444.1	124
150	-1.378	-1.381	0.604	0.492	34.076	7.04	306	27.418	1028.1	64.4	0.105	1443.9	148
175	-1.294	-1.299	0.708	0.576	34.093	6.78	295	27.428	1028.3	63.3	0.121	1444.7	173
200	-1.334	-1.339	0.687	0.537	34.102	6.70	291	27.437	1028.4	62.3	0.137	1445.0	198
225	-1.288	-1.293	0.753	0.584	34.113	6.50	283	27.445	1028.5	61.5	0.152	1445.6	222
250	-1.284	-1.290	0.776	0.588	34.122	6.51	283	27.452	1028.7	60.7	0.168	1446.0	247
275	-1.131	-1.139	0.949	0.742	34.143	6.25	272	27.464	1028.8	59.6	0.183	1447.2	272
300	-0.784	-0.793	1.317	1.091	34.182	5.73	249	27.482	1028.9	58.1	0.197	1449.3	297
325	-0.546	-0.557	1.576	1.331	34.216	5.42	236	27.500	1029.0	56.6	0.212	1450.8	321
350	-0.382	-0.394	1.761	1.497	34.242	5.23	227	27.514	1029.2	55.4	0.226	1452.1	346
375	-0.181	-0.195	1.982	1.700	34.277	4.93	214	27.533	1029.3	53.8	0.239	1453.4	371
400	0.021	0.005	2.205	1.904	34.318	4.83	210	27.555	1029.5	51.8	0.253	1454.8	395
425	0.236	0.219	2.442	2.122	34.364	4.63	201	27.581	1029.6	49.6	0.265	1456.3	420
450	0.401	0.382	2.629	2.290	34.421	4.57	198	27.618	1029.7	46.4	0.277	1457.5	445
475	0.486	0.466	2.735	2.377	34.452	4.55	198	27.638	1029.9	44.7	0.289	1458.4	469
500	0.578	0.556	2.847	2.471	34.484	4.52	196	27.658	1030.0	42.9	0.300	1459.2	494
550	0.855	0.829	3.167	2.752	34.563	4.40	191	27.705	1030.3	39.0	0.320	1461.4	543
600	1.011	0.982	3.363	2.911	34.611	4.34	189	27.733	1030.6	36.7	0.339	1463.0	593
650	1.121	1.088	3.513	3.023	34.651	4.30	187	27.759	1030.8	34.7	0.357	1464.4	642
700	1.149	1.113	3.579	3.051	34.662	4.30	187	27.766	1031.1	34.1	0.374	1465.3	691
750	1.174	1.135	3.642	3.077	34.674	4.30	187	27.774	1031.3	33.6	0.391	1466.3	741
782	1.183	1.142	3.675	3.087	34.679	4.29	187	27.778	1031.4	33.4	0.401	1466.9	772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Potential Temperature (°C)
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-0.5
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1.0
1.5
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Pressure (dbar)
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200
300
400
500
600
700
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1000
1100
1200
1300
1400
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26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
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33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
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34.0
34.2
34.4
34.6
34.8
Salinity
4
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**041D**	2009/01/21	03:17	-74.8871	-101.6896	769	9	769	3	5.9	117	-1.6	982.9

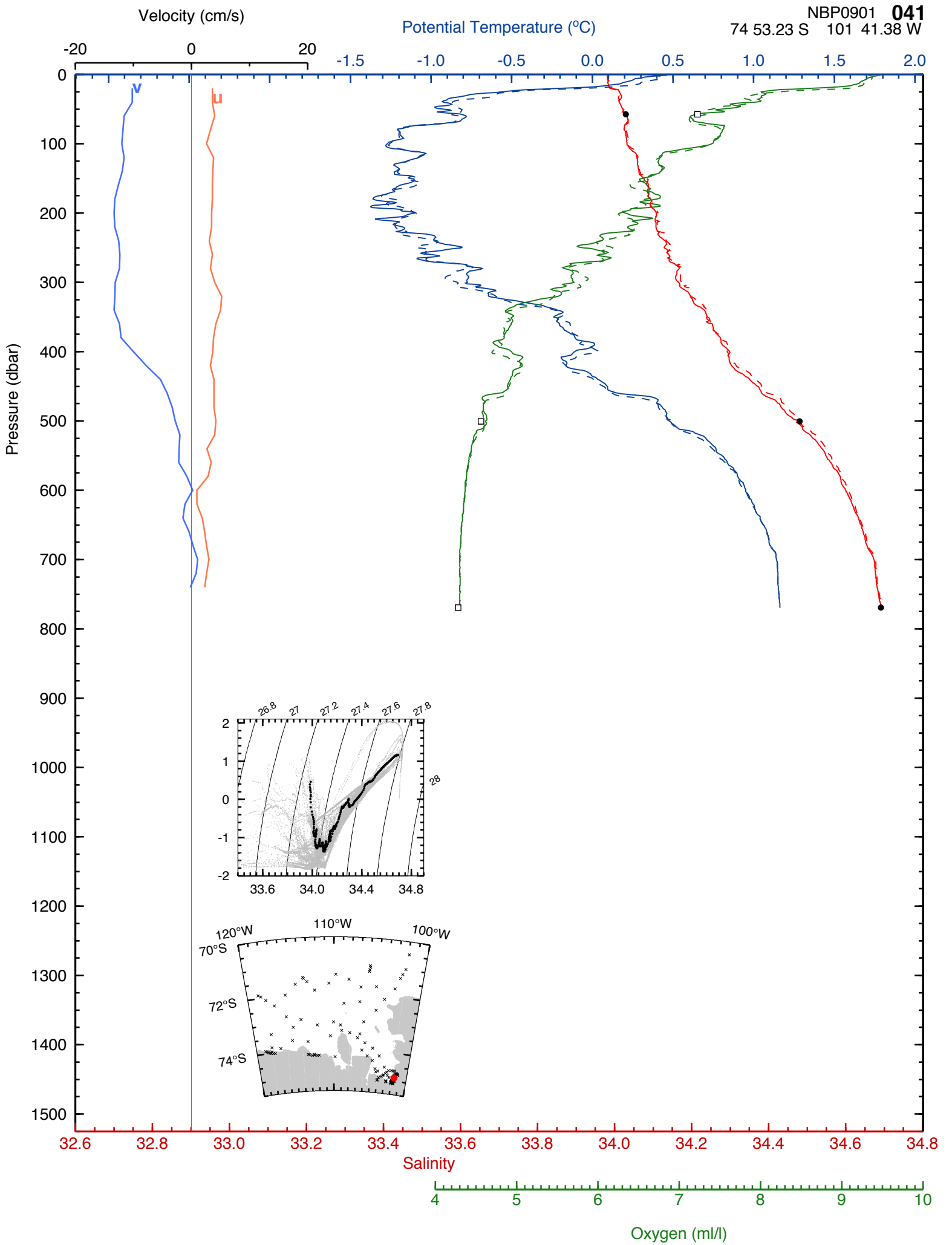
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.465	0.465	2.330	2.329	33.986	9.47	412	72.0	27.263	1027.3	79.9	0.001	1449.9			1
25	-0.561	-0.562	1.323	1.304	34.013	8.01	348	81.4	27.335	1027.5	72.9	0.019	1445.6	0.108	161	25
50	-0.915	-0.917	0.989	0.951	34.022	7.50	326	88.2	27.358	1027.6	70.7	0.037	1444.4	0.115	161	50
75	-1.130	-1.132	0.793	0.737	34.024	7.56	329	91.7	27.367	1027.7	69.7	0.055	1443.8	0.123	163	74
100	-1.269	-1.272	0.673	0.597	34.033	7.40	322	93.6	27.379	1027.9	68.3	0.072	1443.5	0.123	168	99
125	-1.146	-1.149	0.817	0.723	34.060	6.74	293	94.4	27.397	1028.0	66.6	0.089	1444.6	0.122	162	124
150	-1.124	-1.128	0.859	0.746	34.085	6.54	284	95.0	27.417	1028.1	64.6	0.105	1445.1	0.128	163	148
175	-1.314	-1.319	0.687	0.556	34.087	6.76	294	95.3	27.424	1028.3	63.7	0.121	1444.6	0.135	164	173
200	-1.095	-1.100	0.927	0.777	34.110	6.34	276	96.2	27.436	1028.4	62.7	0.137	1446.1	0.138	165	198
225	-1.179	-1.185	0.862	0.692	34.114	6.44	280	96.5	27.442	1028.5	61.9	0.153	1446.1	0.136	165	222
250	-0.807	-0.814	1.255	1.067	34.149	5.82	253	96.5	27.456	1028.7	60.7	0.168	1448.3	0.129	165	247
275	-0.774	-0.782	1.307	1.100	34.163	5.67	247	96.7	27.467	1028.8	59.7	0.183	1448.9	0.128	165	272
300	-0.765	-0.774	1.336	1.110	34.172	5.71	248	96.8	27.474	1028.9	58.9	0.198	1449.4	0.135	163	297
325	-0.510	-0.520	1.612	1.368	34.213	5.25	228	96.6	27.496	1029.0	57.0	0.212	1451.0	0.142	159	321
350	-0.226	-0.239	1.916	1.653	34.242	4.94	215	96.0	27.506	1029.2	56.3	0.226	1452.8	0.139	160	346
375	-0.111	-0.125	2.052	1.769	34.269	4.85	211	96.3	27.523	1029.3	54.8	0.240	1453.8	0.129	162	371
400	-0.095	-0.110	2.088	1.787	34.293	4.94	215	96.7	27.541	1029.4	53.1	0.254	1454.3	0.112	160	395
425	-0.097	-0.113	2.107	1.787	34.331	4.99	217	97.4	27.572	1029.6	50.1	0.267	1454.7	0.085	157	420
450	0.110	0.092	2.335	1.996	34.382	4.89	212	97.6	27.602	1029.7	47.5	0.279	1456.2	0.064	142	445
475	0.427	0.407	2.675	2.317	34.439	4.59	200	97.4	27.631	1029.9	45.2	0.290	1458.1	0.054	134	469
500	0.497	0.475	2.766	2.389	34.477	4.62	201	97.7	27.658	1030.0	42.8	0.301	1458.9	0.050	126	494
550	0.831	0.805	3.142	2.728	34.561	4.42	192	97.8	27.705	1030.3	39.0	0.322	1461.3	0.035	127	543
600	0.979	0.950	3.330	2.879	34.605	4.37	190	97.9	27.731	1030.6	36.8	0.341	1462.9	0.017	88	593
650	1.093	1.061	3.484	2.995	34.643	4.32	188	97.9	27.755	1030.8	35.0	0.359	1464.2	0.024	125	642
700	1.177	1.141	3.608	3.081	34.676	4.30	187	98.0	27.775	1031.1	33.3	0.376	1465.5	0.029	76	691
750	1.196	1.157	3.665	3.100	34.688	4.30	187	97.9	27.784	1031.3	32.7	0.392	1466.4	0.023	95	741
769	1.202	1.162	3.686	3.106	34.694	4.30	187	97.8	27.788	1031.4	32.4	0.399	1466.8			759

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	041B	2009/01/21	03:38	-74.8866	-101.6885	769	9	769	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
58	-0.902	-0.903	34.032	27.365	7.22	314	34.029	7.22	314			5	57
500	0.567	0.545	34.492	27.665	4.58	199	34.481	4.56	198			4,3	494
769	1.201	1.161	34.692	27.787	4.30	187	34.692	4.28	186			1	760

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	041U	2009/01/21	03:57	-74.8868	-101.6893	769	9	769	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.375	0.375	2.240	2.239	33.984	9.33	406	27.266	1027.3	79.6	0.001	1449.5	1
25	-0.504	-0.505	1.381	1.362	34.013	8.22	357	27.333	1027.5	73.1	0.020	1445.9	25
50	-0.812	-0.813	1.092	1.055	34.022	7.39	321	27.354	1027.6	71.1	0.038	1444.9	50
75	-1.138	-1.139	0.785	0.729	34.025	7.44	324	27.368	1027.7	69.5	0.055	1443.7	74
100	-1.255	-1.258	0.687	0.611	34.032	7.38	321	27.378	1027.9	68.5	0.072	1443.6	99
125	-1.147	-1.150	0.816	0.722	34.059	6.70	291	27.396	1028.0	66.6	0.089	1444.6	124
150	-1.111	-1.114	0.872	0.759	34.076	6.58	286	27.409	1028.1	65.4	0.106	1445.2	148
175	-1.304	-1.308	0.698	0.567	34.088	6.66	290	27.425	1028.3	63.7	0.122	1444.7	173
200	-1.089	-1.094	0.933	0.783	34.108	6.27	273	27.434	1028.4	62.8	0.138	1446.1	198
225	-1.174	-1.180	0.867	0.698	34.110	6.43	279	27.439	1028.5	62.2	0.153	1446.1	222
250	-1.078	-1.085	0.982	0.794	34.130	6.18	269	27.451	1028.6	61.0	0.169	1447.0	247
275	-0.788	-0.796	1.294	1.086	34.159	5.75	250	27.464	1028.8	59.9	0.184	1448.8	272
300	-0.828	-0.837	1.272	1.046	34.166	5.80	252	27.471	1028.9	59.1	0.199	1449.0	297
325	-0.545	-0.555	1.577	1.332	34.202	5.41	235	27.489	1029.0	57.6	0.213	1450.8	321
350	-0.191	-0.203	1.952	1.688	34.240	4.86	211	27.503	1029.2	56.6	0.228	1452.9	346
375	-0.099	-0.113	2.064	1.781	34.267	4.84	211	27.520	1029.3	55.1	0.242	1453.8	371
400	0.052	0.037	2.235	1.934	34.299	4.70	204	27.538	1029.4	53.5	0.255	1455.0	395
425	-0.142	-0.157	2.061	1.741	34.312	5.04	219	27.559	1029.6	51.3	0.268	1454.5	420
450	0.086	0.068	2.311	1.972	34.372	4.90	213	27.595	1029.7	48.1	0.281	1456.0	445
475	0.420	0.400	2.667	2.309	34.427	4.58	199	27.622	1029.9	46.1	0.292	1458.0	469
500	0.522	0.500	2.791	2.414	34.478	4.60	200	27.657	1030.0	43.0	0.304	1459.0	494
550	0.804	0.778	3.114	2.700	34.549	4.44	193	27.697	1030.3	39.7	0.324	1461.2	543
600	0.974	0.945	3.325	2.873	34.600	4.37	190	27.727	1030.5	37.2	0.343	1462.8	593
650	1.094	1.061	3.485	2.995	34.640	4.32	188	27.752	1030.8	35.2	0.362	1464.2	642
700	1.179	1.143	3.610	3.082	34.673	4.30	187	27.773	1031.1	33.5	0.379	1465.5	691
750	1.195	1.156	3.664	3.099	34.685	4.30	187	27.782	1031.3	32.9	0.395	1466.4	741
769	1.202	1.162	3.686	3.106	34.694	4.30	187	27.788	1031.4	32.4	0.402	1466.8	759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NBP0901 041
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Pressure (dbar)
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110°W
100°W
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34.6
34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**042D**	2009/01/21	04:22	-74.8940	-101.5956	766	9	766	3	6.1	118	-2.3	983.0

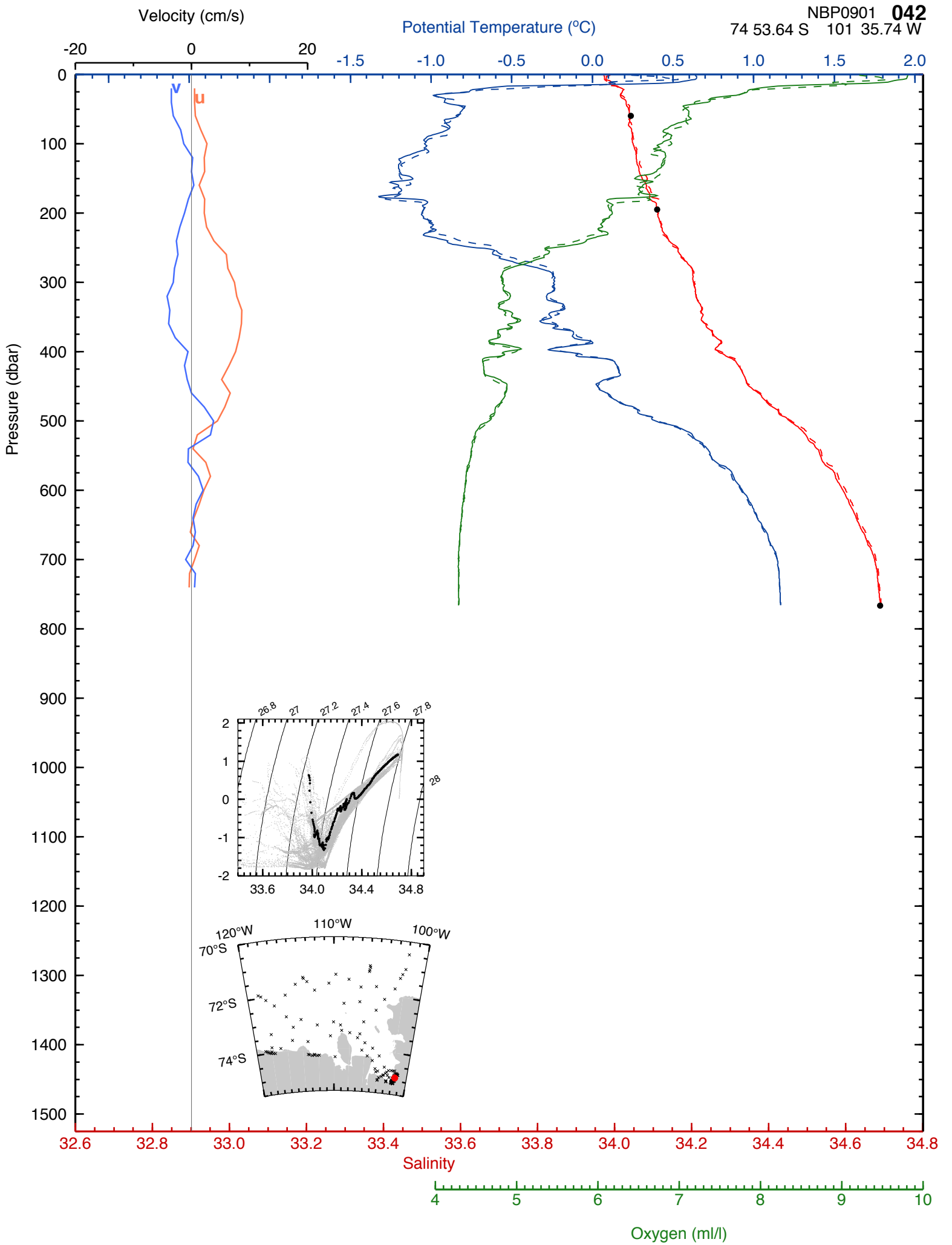
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.637	0.637	2.501	2.500	33.972	9.81	427	70.3	27.241	1027.2	81.9	0.001	1450.7			1
25	-0.764	-0.764	1.121	1.102	34.021	7.84	341	86.1	27.351	1027.5	71.5	0.019	1444.7	0.035	172	25
50	-0.803	-0.804	1.102	1.064	34.038	7.09	308	92.3	27.366	1027.6	69.9	0.037	1444.9	0.034	170	50
75	-0.885	-0.887	1.040	0.983	34.046	6.89	300	92.8	27.376	1027.7	68.9	0.054	1445.0	0.027	148	74
100	-1.039	-1.041	0.905	0.829	34.053	6.77	294	94.2	27.388	1027.9	67.6	0.071	1444.7	0.030	117	99
125	-1.187	-1.190	0.776	0.682	34.065	6.80	296	95.3	27.402	1028.0	66.1	0.088	1444.4	0.022	86	124
150	-1.110	-1.114	0.873	0.760	34.085	6.45	281	95.7	27.416	1028.1	64.7	0.105	1445.2	0.019	83	148
175	-1.292	-1.296	0.710	0.578	34.089	6.73	293	95.9	27.425	1028.3	63.6	0.121	1444.7	0.021	92	173
200	-1.051	-1.057	0.971	0.820	34.114	6.18	268	96.3	27.437	1028.4	62.5	0.136	1446.3	0.025	117	198
225	-0.966	-0.972	1.076	0.907	34.125	6.03	262	96.4	27.443	1028.5	61.9	0.152	1447.1	0.035	127	222
250	-0.708	-0.716	1.355	1.166	34.161	5.43	236	96.4	27.462	1028.7	60.2	0.167	1448.8	0.053	119	247
275	-0.409	-0.418	1.674	1.467	34.193	5.05	219	96.2	27.475	1028.8	59.2	0.182	1450.6	0.067	113	272
300	-0.228	-0.239	1.874	1.649	34.208	4.83	210	95.7	27.478	1028.9	59.0	0.197	1451.9	0.078	113	297
325	-0.268	-0.279	1.854	1.609	34.215	4.89	213	95.9	27.486	1029.0	58.1	0.211	1452.1	0.089	118	321
350	-0.242	-0.255	1.899	1.636	34.229	4.95	215	96.0	27.497	1029.2	57.1	0.226	1452.7	0.095	113	346
375	-0.104	-0.118	2.058	1.775	34.254	4.79	208	96.3	27.510	1029.3	56.0	0.240	1453.8	0.090	111	371
400	-0.170	-0.185	2.012	1.711	34.276	4.86	211	96.9	27.532	1029.4	53.9	0.254	1453.9	0.079	98	395
425	0.175	0.158	2.379	2.059	34.328	4.60	200	96.4	27.555	1029.6	52.0	0.267	1456.0	0.066	100	420
450	0.051	0.034	2.276	1.937	34.358	4.88	212	97.2	27.586	1029.7	48.9	0.280	1455.8	0.056	96	445
475	0.198	0.179	2.444	2.086	34.402	4.79	208	97.6	27.614	1029.9	46.5	0.292	1457.0	0.064	80	469
500	0.412	0.391	2.680	2.304	34.459	4.66	203	97.7	27.648	1030.0	43.7	0.303	1458.5	0.060	55	494
550	0.757	0.732	3.067	2.653	34.538	4.44	193	97.7	27.692	1030.3	40.1	0.324	1461.0	0.009	141	543
600	0.958	0.929	3.309	2.857	34.600	4.36	190	97.9	27.729	1030.6	37.1	0.343	1462.8	0.031	55	593
650	1.082	1.050	3.473	2.984	34.641	4.31	187	97.9	27.753	1030.8	35.1	0.361	1464.2	0.005	83	642
700	1.182	1.146	3.613	3.086	34.678	4.28	186	97.9	27.777	1031.1	33.2	0.378	1465.5	0.012	120	691
750	1.203	1.164	3.672	3.107	34.690	4.29	186	97.9	27.785	1031.3	32.6	0.394	1466.5	0.006	321	741
766	1.206	1.166	3.688	3.111	34.691	4.29	186	97.9	27.786	1031.4	32.6	0.400	1466.7			756

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	042B	2009/01/21	04:43	-74.8933	-101.5945	766	9	766	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
60	-0.855	-0.857	34.041	27.370	7.07	307	34.042					6,5	59
195	-1.044	-1.050	34.112	27.436	6.13	266	34.111					3	192
766	1.206	1.167	34.692	27.786	4.29	186	34.690					1	757

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	042U	2009/01/21	05:01	-74.8937	-101.5953	766	9	766	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.240	0.240	2.105	2.104	33.989	9.21	401	27.278	1027.3	78.5	0.001	1448.9	1
25	-0.777	-0.778	1.108	1.089	34.020	7.80	339	27.350	1027.5	71.5	0.019	1444.6	25
50	-0.788	-0.789	1.117	1.080	34.036	7.06	307	27.364	1027.6	70.1	0.037	1445.0	50
75	-0.918	-0.920	1.005	0.949	34.038	7.05	307	27.371	1027.7	69.3	0.054	1444.8	74
100	-1.038	-1.041	0.905	0.829	34.048	6.91	300	27.383	1027.9	68.0	0.071	1444.7	99
125	-1.143	-1.146	0.819	0.725	34.057	6.82	296	27.394	1028.0	66.8	0.088	1444.6	124
150	-1.183	-1.187	0.799	0.686	34.071	6.69	291	27.407	1028.1	65.5	0.105	1444.8	148
175	-1.203	-1.208	0.799	0.667	34.092	6.51	283	27.425	1028.3	63.7	0.121	1445.2	173
200	-1.048	-1.053	0.974	0.824	34.112	6.15	267	27.436	1028.4	62.7	0.137	1446.3	198
225	-0.995	-1.002	1.046	0.877	34.124	6.01	261	27.443	1028.5	61.9	0.152	1447.0	222
250	-0.591	-0.599	1.471	1.283	34.164	5.36	233	27.460	1028.7	60.5	0.168	1449.3	247
275	-0.314	-0.323	1.769	1.562	34.193	4.96	216	27.471	1028.8	59.6	0.183	1451.1	272
300	-0.236	-0.246	1.867	1.641	34.205	4.84	210	27.477	1028.9	59.1	0.198	1451.9	297
325	-0.236	-0.247	1.886	1.641	34.215	4.89	212	27.485	1029.0	58.3	0.212	1452.3	321
350	-0.271	-0.283	1.871	1.607	34.227	4.92	214	27.497	1029.2	57.1	0.227	1452.5	346
375	-0.089	-0.103	2.073	1.790	34.256	4.77	207	27.511	1029.3	55.9	0.241	1453.8	371
400	-0.163	-0.177	2.019	1.718	34.270	4.99	217	27.526	1029.4	54.4	0.255	1453.9	395
425	0.180	0.163	2.384	2.064	34.328	4.59	200	27.555	1029.6	52.0	0.268	1456.0	420
450	0.050	0.032	2.274	1.935	34.350	4.85	211	27.580	1029.7	49.5	0.281	1455.8	445
475	0.208	0.189	2.453	2.096	34.398	4.80	209	27.610	1029.9	46.9	0.293	1457.0	469
500	0.428	0.407	2.696	2.319	34.455	4.66	203	27.644	1030.0	44.1	0.304	1458.5	494
550	0.757	0.731	3.066	2.652	34.534	4.44	193	27.688	1030.3	40.4	0.325	1460.9	543
600	0.950	0.921	3.301	2.849	34.593	4.36	189	27.723	1030.5	37.6	0.344	1462.7	593
650	1.079	1.047	3.470	2.981	34.636	4.32	188	27.749	1030.8	35.5	0.363	1464.2	642
700	1.181	1.146	3.612	3.085	34.675	4.29	186	27.774	1031.1	33.5	0.380	1465.5	691
750	1.202	1.163	3.671	3.107	34.687	4.29	186	27.783	1031.3	32.8	0.396	1466.4	741
766	1.206	1.166	3.688	3.111	34.691	4.29	186	27.786	1031.4	32.6	0.402	1466.7	756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20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**043D**	2009/01/21	05:31	-74.9028	-101.4627	834	8	832	3	7.4	133	-4.4	983.8

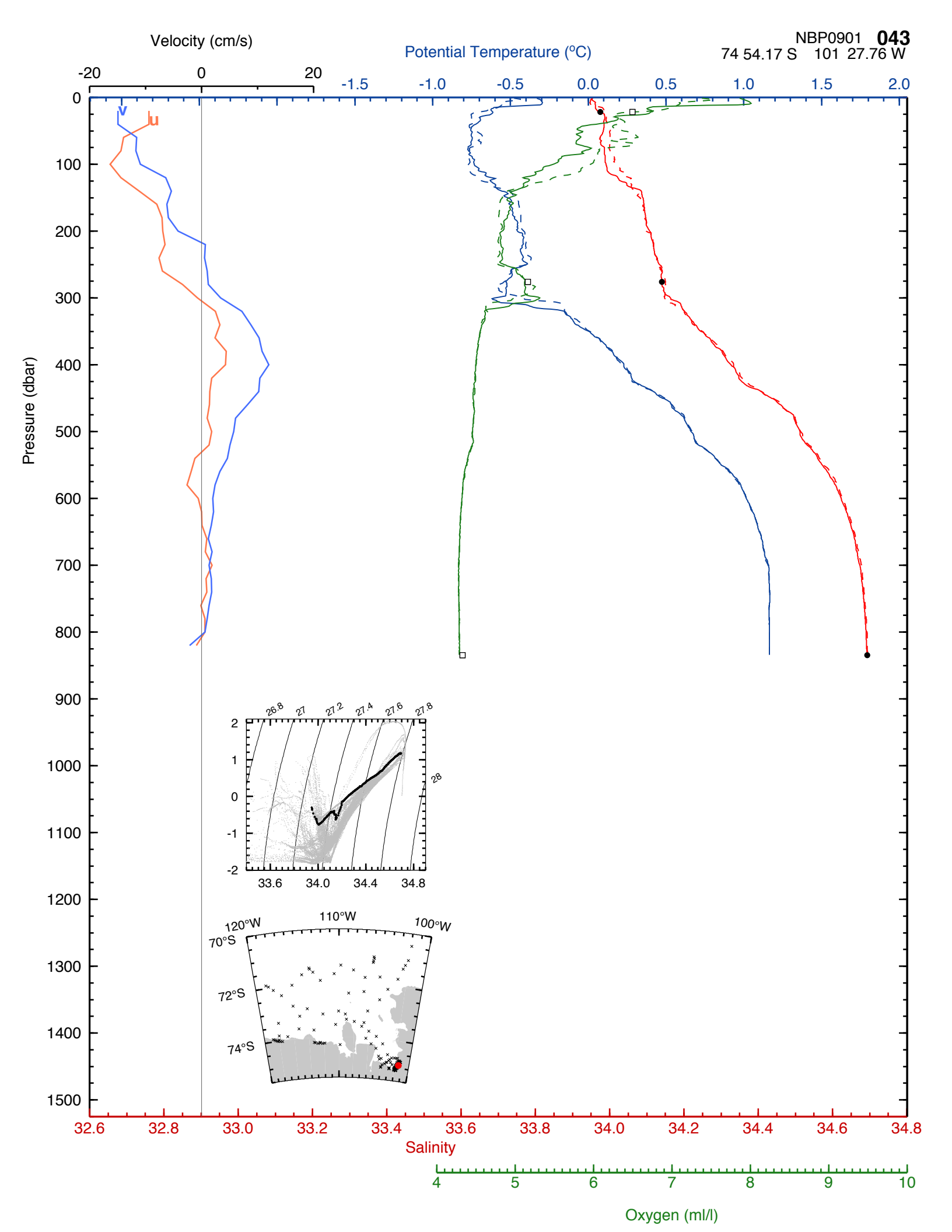
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.331	-0.331	1.532	1.532	33.952	7.86	342	84.0	27.276	1027.3	78.6	0.001	1446.2			1
25	-0.624	-0.625	1.259	1.240	33.986	6.67	290	88.3	27.317	1027.4	74.6	0.019	1445.3	0.176	212	25
50	-0.751	-0.753	1.151	1.114	34.001	5.84	254	92.4	27.334	1027.6	72.9	0.038	1445.1	0.178	221	50
75	-0.771	-0.773	1.151	1.094	34.000	5.94	258	92.2	27.334	1027.7	72.9	0.056	1445.4	0.184	231	74
100	-0.731	-0.734	1.210	1.135	34.015	5.49	239	93.1	27.345	1027.8	71.8	0.074	1446.0	0.196	236	99
125	-0.624	-0.627	1.338	1.244	34.050	5.17	225	94.0	27.369	1028.0	69.4	0.092	1447.0	0.152	246	124
150	-0.510	-0.515	1.472	1.359	34.082	4.92	214	94.1	27.390	1028.1	67.5	0.109	1448.0	0.114	239	148
175	-0.480	-0.486	1.522	1.390	34.092	4.91	214	94.2	27.396	1028.2	66.8	0.125	1448.5	0.095	231	173
200	-0.449	-0.455	1.572	1.422	34.099	4.83	210	94.2	27.400	1028.4	66.3	0.142	1449.1	0.082	238	198
225	-0.420	-0.427	1.621	1.452	34.118	4.84	210	94.8	27.415	1028.5	65.0	0.158	1449.7	0.066	276	222
250	-0.391	-0.399	1.670	1.482	34.134	4.86	211	94.8	27.426	1028.6	63.8	0.174	1450.2	0.074	275	247
275	-0.519	-0.528	1.562	1.355	34.150	5.13	223	95.8	27.445	1028.8	61.9	0.190	1450.1	0.050	285	272
300	-0.591	-0.601	1.508	1.282	34.148	5.31	231	95.8	27.447	1028.9	61.6	0.206	1450.1	0.035	338	297
325	-0.124	-0.136	1.997	1.753	34.205	4.62	201	94.7	27.471	1029.0	59.7	0.221	1452.8	0.077	19	321
350	0.018	0.005	2.161	1.897	34.250	4.55	198	94.8	27.501	1029.2	57.0	0.235	1453.9	0.098	18	346
375	0.140	0.125	2.304	2.022	34.295	4.52	197	95.0	27.531	1029.3	54.3	0.249	1455.0	0.112	18	371
400	0.244	0.228	2.429	2.128	34.333	4.50	195	95.2	27.556	1029.5	52.1	0.263	1455.9	0.125	20	395
425	0.298	0.281	2.504	2.184	34.362	4.49	195	95.4	27.576	1029.6	50.2	0.275	1456.6	0.106	10	420
450	0.499	0.479	2.727	2.389	34.437	4.46	194	96.0	27.625	1029.8	45.9	0.287	1458.0	0.098	9	445
475	0.617	0.596	2.868	2.510	34.493	4.47	194	97.3	27.663	1029.9	42.5	0.298	1459.0	0.073	10	469
500	0.684	0.661	2.955	2.578	34.514	4.45	194	97.6	27.677	1030.0	41.3	0.309	1459.8	0.061	15	494
550	0.881	0.855	3.193	2.779	34.575	4.38	190	97.8	27.713	1030.3	38.3	0.329	1461.6	0.046	343	543
600	1.046	1.017	3.399	2.947	34.627	4.32	188	97.9	27.744	1030.6	35.8	0.347	1463.2	0.026	332	593
650	1.133	1.100	3.525	3.036	34.658	4.30	187	98.0	27.764	1030.8	34.2	0.365	1464.5	0.017	7	642
700	1.196	1.160	3.626	3.099	34.678	4.28	186	98.0	27.776	1031.1	33.3	0.381	1465.6	0.022	40	691
750	1.206	1.167	3.675	3.110	34.687	4.28	186	97.9	27.782	1031.3	32.9	0.398	1466.5	0.020	38	741
800	1.206	1.164	3.713	3.111	34.693	4.29	186	97.9	27.788	1031.5	32.6	0.414	1467.3	0.010	38	790
834	1.209	1.165	3.742	3.114	34.694	4.29	186	97.9	27.788	1031.7	32.6	0.425	1467.9			823

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	043B	2009/01/21	05:52	-74.9037	-101.4647	834	8	832	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
22	-0.712	-0.713	33.976	27.312	6.42	279	33.975	6.50	282			5	21
276	-0.560	-0.569	34.143	27.441	5.18	225	34.141	5.16	224			3	273
834	1.209	1.165	34.693	27.788	4.29	186	34.694	4.33	188			1	824

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	043U	2009/01/21	06:13	-74.9034	-101.4640	834	8	832	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.477	-0.477	1.386	1.385	33.955	7.38	321	27.285	1027.3	77.8	0.001	1445.5	1
25	-0.753	-0.754	1.130	1.111	33.986	6.29	273	27.322	1027.4	74.2	0.019	1444.7	25
50	-0.727	-0.728	1.175	1.137	33.983	6.38	278	27.319	1027.6	74.4	0.038	1445.2	50
75	-0.756	-0.758	1.165	1.108	33.986	6.22	270	27.322	1027.7	74.0	0.056	1445.5	74
100	-0.767	-0.770	1.173	1.098	33.990	5.96	259	27.326	1027.8	73.5	0.075	1445.8	99
125	-0.677	-0.681	1.284	1.189	34.030	5.39	234	27.355	1028.0	70.7	0.093	1446.7	124
150	-0.459	-0.464	1.524	1.411	34.089	4.84	210	27.393	1028.1	67.1	0.110	1448.2	148
175	-0.430	-0.436	1.572	1.440	34.096	4.79	208	27.397	1028.2	66.7	0.127	1448.8	173
200	-0.408	-0.414	1.614	1.463	34.108	4.81	209	27.406	1028.4	65.8	0.143	1449.3	198
225	-0.394	-0.401	1.647	1.478	34.119	4.79	208	27.414	1028.5	65.0	0.160	1449.8	222
250	-0.379	-0.388	1.681	1.493	34.135	4.79	208	27.426	1028.6	63.8	0.176	1450.3	247
275	-0.526	-0.535	1.554	1.347	34.141	5.14	223	27.438	1028.8	62.5	0.192	1450.0	272
300	-0.409	-0.419	1.691	1.465	34.164	4.99	217	27.451	1028.9	61.3	0.207	1451.0	297
325	-0.129	-0.141	1.992	1.748	34.208	4.66	203	27.474	1029.0	59.4	0.222	1452.8	321
350	0.024	0.010	2.166	1.903	34.246	4.55	198	27.497	1029.2	57.3	0.237	1453.9	346
375	0.147	0.133	2.311	2.029	34.292	4.52	197	27.527	1029.3	54.6	0.251	1455.0	371
400	0.235	0.219	2.420	2.119	34.326	4.50	196	27.551	1029.4	52.5	0.264	1455.8	395
425	0.314	0.296	2.519	2.199	34.356	4.49	195	27.570	1029.6	50.8	0.277	1456.6	420
450	0.514	0.494	2.742	2.404	34.436	4.46	194	27.624	1029.8	46.0	0.289	1458.1	445
475	0.634	0.613	2.885	2.528	34.494	4.47	194	27.663	1029.9	42.5	0.300	1459.1	469
500	0.689	0.666	2.959	2.583	34.512	4.46	194	27.674	1030.0	41.6	0.311	1459.8	494
550	0.888	0.862	3.200	2.785	34.573	4.38	191	27.711	1030.3	38.5	0.331	1461.6	543
600	1.047	1.018	3.400	2.948	34.623	4.32	188	27.741	1030.6	36.0	0.349	1463.2	593
650	1.135	1.103	3.527	3.038	34.655	4.30	187	27.761	1030.8	34.5	0.367	1464.5	642
700	1.192	1.156	3.623	3.095	34.674	4.28	186	27.773	1031.1	33.6	0.384	1465.5	691
750	1.206	1.167	3.675	3.110	34.684	4.28	186	27.780	1031.3	33.1	0.401	1466.5	741
800	1.206	1.164	3.713	3.110	34.690	4.29	186	27.785	1031.5	32.8	0.417	1467.3	790
834	1.209	1.165	3.742	3.114	34.694	4.29	186	27.788	1031.7	32.6	0.428	1467.9	823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Potential Temperature (°C)
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Pressure (dbar)
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500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**044D**	2009/01/21	11:35	-74.8484	-101.7409	675	10	676	2	14.2	150	-5.6	985.0

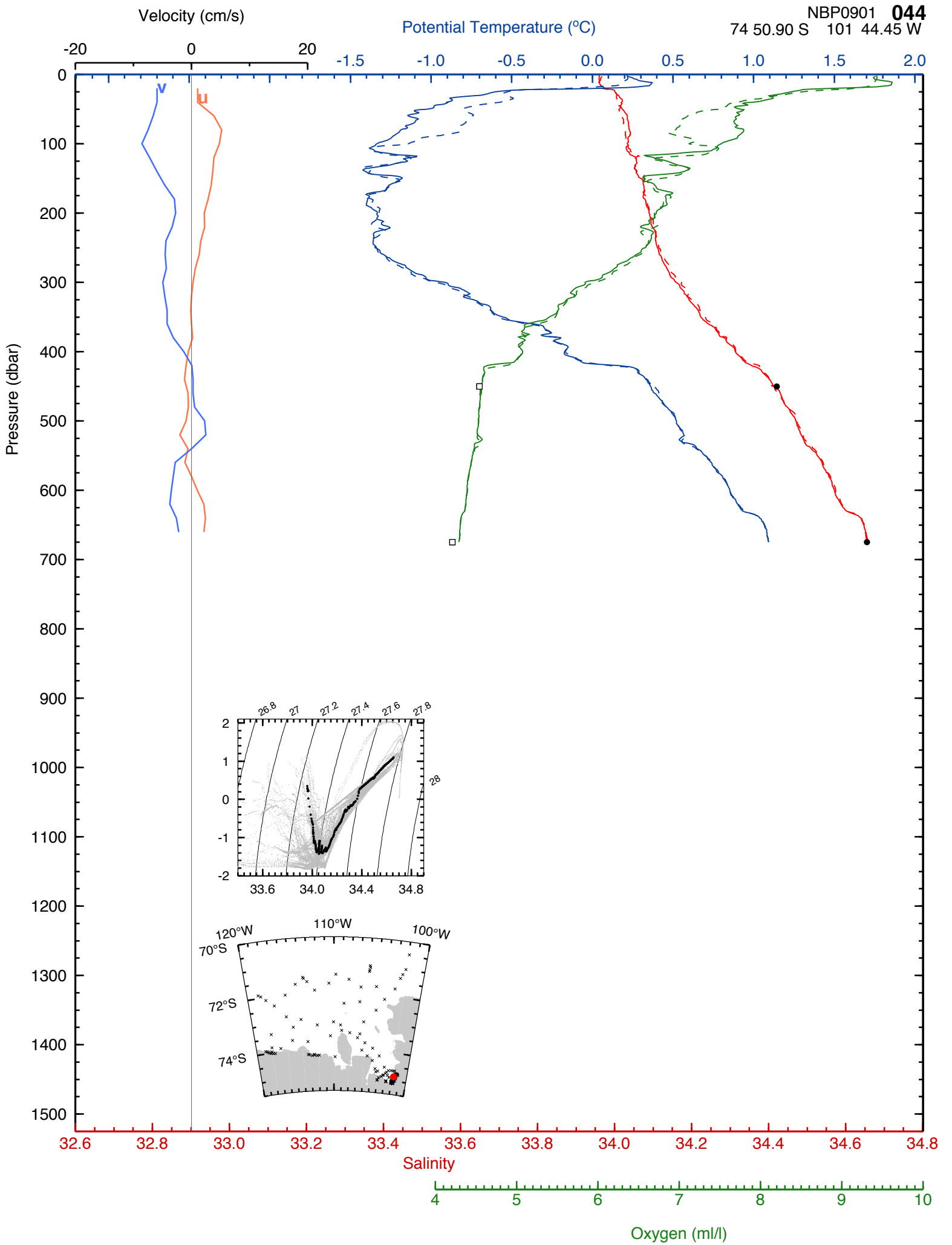
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
3	0.215	0.215	2.080	2.078	33.968	9.41	409	70.3	27.262	1027.3	80.0	0.002	1448.8			3
25	-0.605	-0.605	1.279	1.260	34.000	8.37	364	79.4	27.327	1027.4	73.7	0.020	1445.4	0.060	169	25
50	-1.028	-1.029	0.876	0.838	34.013	7.76	337	88.9	27.354	1027.6	71.0	0.038	1443.8	0.068	160	50
75	-1.157	-1.159	0.765	0.709	34.023	7.70	335	90.1	27.367	1027.7	69.6	0.055	1443.7	0.087	146	74
100	-1.333	-1.335	0.609	0.534	34.031	7.52	327	91.1	27.379	1027.9	68.3	0.073	1443.2	0.098	150	99
125	-1.143	-1.146	0.820	0.726	34.061	6.85	298	94.8	27.397	1028.0	66.5	0.090	1444.6	0.080	151	124
150	-1.176	-1.180	0.806	0.693	34.077	6.57	286	95.3	27.412	1028.1	65.1	0.106	1444.8	0.065	146	148
175	-1.385	-1.390	0.616	0.484	34.081	6.83	297	96.2	27.422	1028.3	63.9	0.122	1444.3	0.046	138	173
200	-1.328	-1.333	0.693	0.542	34.094	6.72	292	96.5	27.431	1028.4	63.0	0.138	1445.0	0.036	140	198
225	-1.304	-1.310	0.736	0.567	34.104	6.65	289	96.6	27.438	1028.5	62.1	0.154	1445.5	0.041	147	222
250	-1.340	-1.346	0.720	0.531	34.115	6.57	286	97.0	27.448	1028.6	61.0	0.169	1445.8	0.047	161	247
275	-1.159	-1.166	0.922	0.714	34.142	6.24	271	97.0	27.464	1028.8	59.6	0.184	1447.0	0.045	168	272
300	-0.906	-0.915	1.194	0.969	34.174	5.84	254	96.9	27.480	1028.9	58.2	0.199	1448.7	0.048	176	297
325	-0.727	-0.737	1.394	1.150	34.200	5.61	244	97.1	27.495	1029.0	56.9	0.213	1450.0	0.046	180	321
350	-0.539	-0.551	1.603	1.339	34.235	5.40	235	97.2	27.515	1029.2	55.1	0.227	1451.3	0.042	181	346
375	-0.281	-0.295	1.881	1.599	34.267	5.15	224	96.8	27.529	1029.3	54.0	0.241	1453.0	0.036	178	371
400	-0.157	-0.172	2.027	1.726	34.315	5.07	221	97.2	27.562	1029.5	51.0	0.254	1454.0	0.018	195	395
425	0.293	0.276	2.500	2.180	34.384	4.59	200	97.0	27.594	1029.6	48.5	0.266	1456.6	0.009	276	420
450	0.380	0.361	2.608	2.269	34.414	4.57	199	97.1	27.613	1029.7	46.8	0.278	1457.4	0.011	287	445
475	0.455	0.434	2.703	2.345	34.441	4.55	198	97.3	27.631	1029.9	45.3	0.290	1458.2	0.007	305	469
500	0.542	0.520	2.811	2.435	34.474	4.53	197	97.5	27.652	1030.0	43.4	0.301	1459.1	0.020	332	494
550	0.726	0.701	3.035	2.621	34.532	4.46	194	97.7	27.688	1030.3	40.4	0.322	1460.8	0.010	258	543
600	0.880	0.852	3.230	2.778	34.574	4.39	191	97.8	27.713	1030.5	38.4	0.341	1462.4	0.034	170	593
650	1.098	1.065	3.489	3.000	34.649	4.31	187	97.8	27.759	1030.8	34.6	0.360	1464.3	0.035	137	642
675	1.127	1.093	3.538	3.030	34.657	4.29	186	97.7	27.764	1030.9	34.3	0.368	1464.8			667

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	044B	2009/01/21	11:55	-74.8484	-101.7416	675	10	676	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
450	0.385	0.366	34.414	27.613	4.56	198	34.421	4.54	197			3	445
675	1.127	1.093	34.657	27.764	4.29	186	34.656	4.21	183			1	666

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	044U	2009/01/21	12:12	-74.8459	-101.7332	675	10	676	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.213	0.213	2.077	2.076	33.961	9.43	410	27.256	1027.3	80.5	0.001	1448.7	1
25	-0.527	-0.528	1.356	1.338	34.001	8.51	370	27.325	1027.4	73.9	0.020	1445.8	25
50	-0.799	-0.800	1.105	1.067	34.020	7.50	326	27.352	1027.6	71.3	0.038	1444.9	50
75	-0.821	-0.823	1.103	1.046	34.037	7.01	305	27.366	1027.7	69.8	0.056	1445.2	74
100	-1.141	-1.143	0.802	0.726	34.033	7.13	310	27.375	1027.9	68.8	0.073	1444.2	99
125	-1.162	-1.165	0.800	0.706	34.057	6.79	295	27.395	1028.0	66.7	0.090	1444.5	124
150	-1.222	-1.226	0.760	0.647	34.068	6.76	294	27.406	1028.1	65.6	0.106	1444.6	148
175	-1.401	-1.405	0.600	0.468	34.075	6.89	299	27.417	1028.3	64.3	0.123	1444.2	173
200	-1.317	-1.322	0.704	0.553	34.090	6.70	291	27.427	1028.4	63.3	0.138	1445.0	198
225	-1.275	-1.281	0.765	0.596	34.105	6.56	285	27.438	1028.5	62.2	0.154	1445.6	222
250	-1.333	-1.340	0.726	0.538	34.111	6.58	286	27.445	1028.6	61.4	0.170	1445.8	247
275	-1.205	-1.212	0.875	0.668	34.130	6.34	276	27.456	1028.8	60.3	0.185	1446.8	272
300	-0.962	-0.971	1.138	0.912	34.160	5.98	260	27.471	1028.9	59.0	0.200	1448.4	297
325	-0.726	-0.736	1.395	1.150	34.193	5.63	245	27.489	1029.0	57.4	0.214	1450.0	321
350	-0.576	-0.588	1.565	1.301	34.224	5.47	238	27.508	1029.2	55.7	0.228	1451.1	346
375	-0.266	-0.280	1.896	1.614	34.271	5.07	220	27.532	1029.3	53.8	0.242	1453.0	371
400	-0.154	-0.169	2.030	1.729	34.313	5.06	220	27.560	1029.5	51.2	0.255	1454.0	395
425	0.288	0.271	2.494	2.174	34.377	4.62	201	27.589	1029.6	49.0	0.268	1456.5	420
450	0.382	0.363	2.609	2.271	34.412	4.57	198	27.612	1029.7	47.0	0.280	1457.4	445
475	0.462	0.442	2.710	2.352	34.441	4.55	198	27.631	1029.9	45.3	0.291	1458.2	469
500	0.545	0.523	2.814	2.437	34.471	4.53	197	27.650	1030.0	43.6	0.302	1459.1	494
550	0.725	0.700	3.034	2.620	34.527	4.46	194	27.684	1030.3	40.8	0.323	1460.8	543
600	0.879	0.851	3.229	2.777	34.571	4.39	191	27.710	1030.5	38.7	0.343	1462.4	593
650	1.100	1.068	3.492	3.002	34.647	4.31	187	27.757	1030.8	34.8	0.362	1464.3	642
675	1.127	1.093	3.538	3.030	34.657	4.29	186	27.764	1030.9	34.3	0.370	1464.8	667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Potential Temperature (°C)
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1100
1200
1300
1400
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27
27.2
27.4
27.6
27.8
28
2
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-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
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33.2
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34.0
34.2
34.4
34.6
34.8
Salinity
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**045D**	2009/01/21	12:56	-74.8128	-101.7059	635	8	635	2	14.8	147	-6.2	985.4

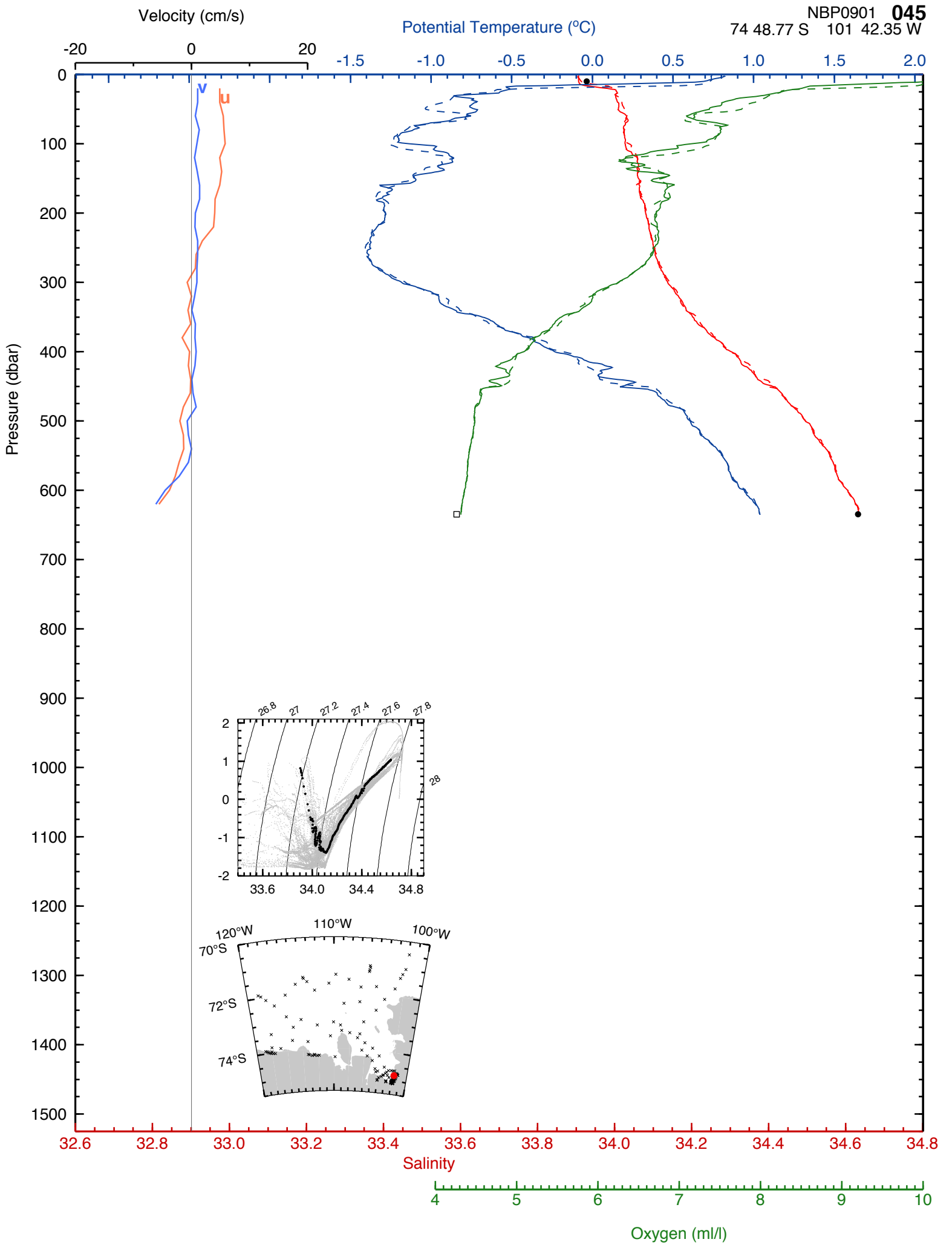
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.812	0.812	2.673	2.671	33.904	10.20	444	64.5	27.176	1027.2	88.1	0.002	1451.4			2
25	-0.572	-0.572	1.313	1.294	34.006	8.26	359	79.0	27.331	1027.5	73.4	0.020	1445.6	0.050	77	25
50	-0.723	-0.725	1.181	1.143	34.027	7.37	321	86.5	27.354	1027.6	71.0	0.038	1445.3	0.052	80	50
75	-1.098	-1.099	0.825	0.769	34.025	7.54	328	90.1	27.366	1027.7	69.7	0.056	1443.9	0.056	79	74
100	-1.135	-1.137	0.808	0.732	34.037	7.15	311	92.2	27.378	1027.9	68.5	0.073	1444.2	0.059	81	99
125	-0.866	-0.869	1.097	1.003	34.061	6.26	272	94.8	27.387	1028.0	67.6	0.090	1445.9	0.050	83	124
150	-1.095	-1.099	0.887	0.774	34.064	6.72	292	95.2	27.398	1028.1	66.4	0.107	1445.2	0.052	77	148
175	-1.277	-1.281	0.724	0.592	34.069	6.81	296	95.6	27.408	1028.2	65.2	0.124	1444.8	0.046	72	173
200	-1.278	-1.282	0.743	0.592	34.085	6.72	292	96.4	27.422	1028.4	63.9	0.140	1445.2	0.041	79	198
225	-1.347	-1.352	0.693	0.524	34.092	6.74	293	96.0	27.429	1028.5	63.0	0.156	1445.3	0.036	78	222
250	-1.370	-1.376	0.689	0.501	34.104	6.68	290	96.5	27.440	1028.6	61.8	0.171	1445.6	0.019	51	247
275	-1.356	-1.363	0.722	0.515	34.118	6.57	285	97.0	27.451	1028.8	60.7	0.186	1446.1	0.012	37	272
300	-1.176	-1.184	0.923	0.698	34.142	6.26	272	97.0	27.464	1028.9	59.4	0.201	1447.4	0.011	273	297
325	-0.941	-0.951	1.178	0.934	34.170	5.92	258	97.0	27.479	1029.0	58.2	0.216	1448.9	0.005	18	321
350	-0.669	-0.680	1.472	1.208	34.213	5.55	241	96.9	27.503	1029.2	56.1	0.230	1450.7	0.006	301	346
375	-0.431	-0.444	1.731	1.448	34.254	5.30	230	97.0	27.525	1029.3	54.2	0.244	1452.2	0.012	319	371
400	-0.220	-0.235	1.963	1.662	34.300	5.09	221	97.3	27.553	1029.5	51.8	0.258	1453.7	0.011	328	395
425	0.110	0.093	2.316	1.996	34.357	4.85	211	97.2	27.582	1029.6	49.4	0.270	1455.7	0.008	320	420
450	0.195	0.177	2.422	2.083	34.395	4.78	208	97.5	27.608	1029.7	47.1	0.282	1456.6	0.002	318	445
475	0.484	0.463	2.732	2.375	34.452	4.54	197	97.4	27.638	1029.9	44.7	0.293	1458.4	0.010	314	469
500	0.627	0.605	2.897	2.521	34.496	4.48	195	97.5	27.665	1030.0	42.4	0.304	1459.5	0.019	265	494
550	0.829	0.803	3.140	2.726	34.561	4.41	192	97.8	27.705	1030.3	38.9	0.325	1461.3	0.015	268	543
600	0.970	0.941	3.322	2.870	34.606	4.36	189	97.8	27.732	1030.6	36.7	0.344	1462.8	0.050	225	593
635	1.071	1.039	3.450	2.972	34.636	4.31	187	97.7	27.750	1030.7	35.3	0.356	1463.9			627

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	045B	2009/01/21	13:14	-74.8144	-101.7027	634	8	635	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	0.718	0.718	33.907	27.184	10.04	437	33.928					3	10
634	1.070	1.039	34.636	27.750	4.31	187	34.633	4.26	185			1	627

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	045U	2009/01/21	13:29	-74.8150	-101.7004	634	8	635	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.743	0.743	2.603	2.602	33.906	10.57	460	27.182	1027.2	87.5	0.001	1451.1	1
25	-0.618	-0.619	1.266	1.247	34.007	8.25	359	27.333	1027.5	73.1	0.021	1445.3	25
50	-1.034	-1.035	0.870	0.832	34.010	7.76	338	27.352	1027.6	71.2	0.039	1443.8	50
75	-1.123	-1.125	0.799	0.743	34.024	7.51	326	27.367	1027.7	69.7	0.056	1443.8	74
100	-1.256	-1.258	0.686	0.611	34.028	7.39	321	27.374	1027.9	68.8	0.074	1443.6	99
125	-0.928	-0.931	1.035	0.941	34.059	6.36	276	27.388	1028.0	67.5	0.091	1445.6	124
150	-1.095	-1.099	0.886	0.773	34.062	6.78	295	27.397	1028.1	66.5	0.108	1445.2	148
175	-1.334	-1.339	0.666	0.534	34.066	6.88	299	27.409	1028.2	65.2	0.124	1444.5	173
200	-1.279	-1.284	0.742	0.591	34.081	6.71	292	27.418	1028.4	64.2	0.140	1445.2	198
225	-1.359	-1.365	0.680	0.511	34.090	6.72	292	27.429	1028.5	63.0	0.156	1445.2	222
250	-1.402	-1.408	0.657	0.468	34.102	6.69	291	27.439	1028.6	61.8	0.172	1445.4	247
275	-1.344	-1.351	0.734	0.527	34.115	6.57	286	27.448	1028.8	60.9	0.187	1446.1	272
300	-1.151	-1.159	0.948	0.722	34.138	6.25	272	27.461	1028.9	59.8	0.202	1447.5	297
325	-0.883	-0.893	1.236	0.992	34.172	5.84	254	27.479	1029.0	58.3	0.217	1449.2	321
350	-0.701	-0.712	1.440	1.176	34.203	5.62	244	27.496	1029.2	56.7	0.231	1450.5	346
375	-0.428	-0.441	1.733	1.451	34.247	5.32	231	27.520	1029.3	54.7	0.245	1452.3	371
400	-0.168	-0.183	2.015	1.714	34.303	5.08	221	27.553	1029.5	51.9	0.259	1454.0	395
425	0.013	-0.003	2.218	1.898	34.350	4.93	214	27.582	1029.6	49.4	0.271	1455.3	420
450	0.336	0.317	2.563	2.224	34.411	4.71	204	27.614	1029.7	46.7	0.283	1457.2	445
475	0.522	0.502	2.771	2.413	34.455	4.52	196	27.638	1029.9	44.7	0.295	1458.5	469
500	0.632	0.610	2.902	2.526	34.496	4.49	195	27.665	1030.0	42.4	0.305	1459.5	494
550	0.833	0.807	3.144	2.730	34.559	4.41	192	27.703	1030.3	39.2	0.326	1461.3	543
600	0.979	0.950	3.330	2.878	34.605	4.36	189	27.731	1030.6	36.9	0.345	1462.9	593
635	1.071	1.039	3.450	2.972	34.636	4.31	187	27.750	1030.7	35.3	0.358	1463.9	627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100°W
70°S
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74°S
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34.4
34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**046D**	2009/01/21	14:09	-74.7846	-101.6732	633	9	634	2	14.9	156	-6.6	985.7

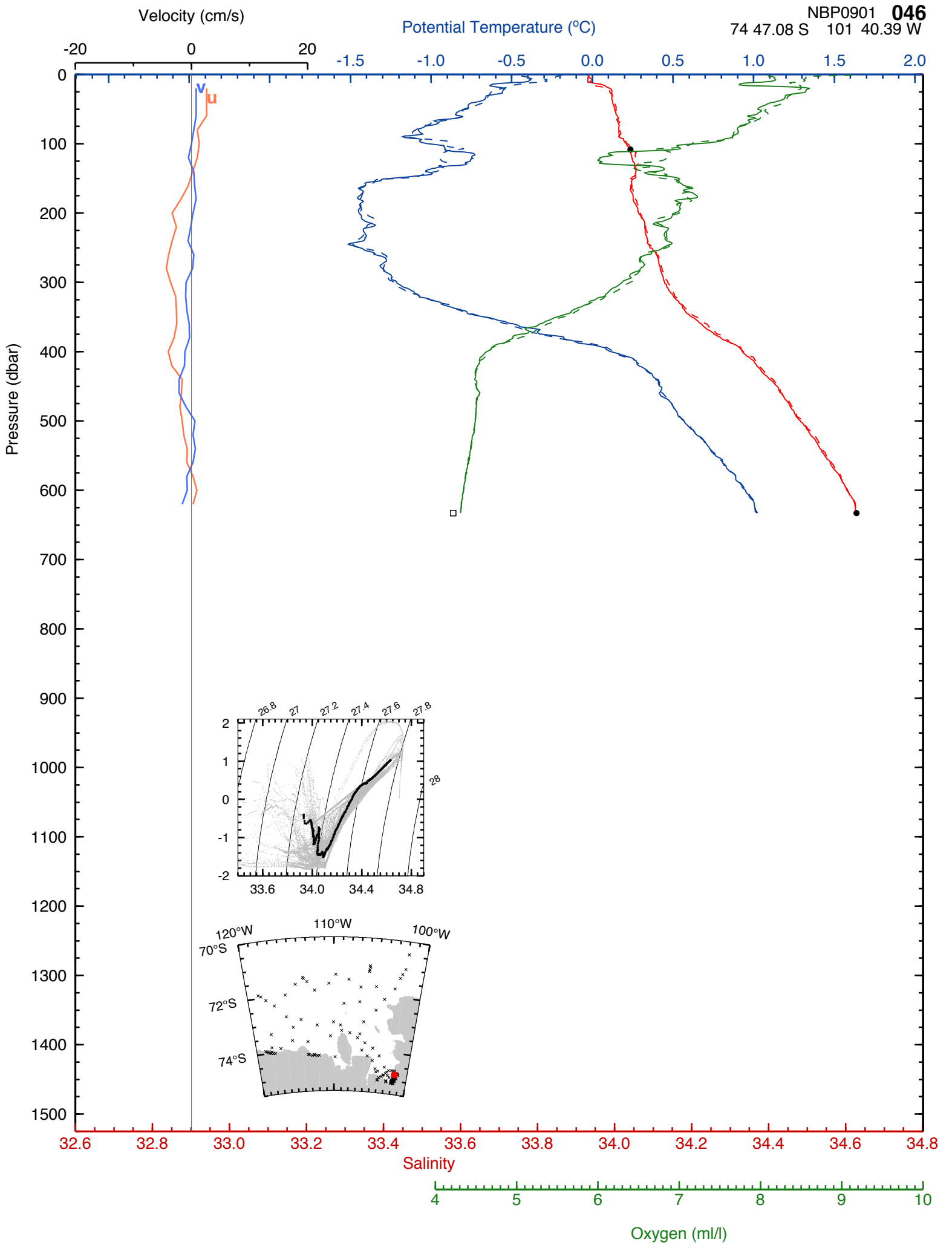
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.441	-0.441	1.422	1.420	33.932	8.09	352	79.2	27.265	1027.3	79.7	0.002	1445.7			2
25	-0.557	-0.558	1.326	1.307	33.987	8.55	372	78.8	27.315	1027.4	74.8	0.020	1445.6	0.027	73	25
50	-0.778	-0.779	1.125	1.087	34.004	7.97	346	84.8	27.338	1027.6	72.6	0.038	1445.0	0.027	73	50
75	-1.037	-1.039	0.885	0.828	34.013	7.74	337	87.0	27.355	1027.7	70.8	0.056	1444.2	0.016	70	74
100	-1.018	-1.020	0.925	0.849	34.033	7.21	314	91.0	27.370	1027.8	69.3	0.073	1444.7	0.013	89	99
125	-0.753	-0.757	1.209	1.115	34.057	6.03	262	92.8	27.380	1028.0	68.4	0.091	1446.4	0.010	100	124
150	-1.261	-1.265	0.719	0.606	34.042	7.00	304	94.5	27.387	1028.1	67.4	0.108	1444.4	0.005	147	148
175	-1.438	-1.443	0.561	0.429	34.051	7.22	314	95.3	27.399	1028.2	66.0	0.124	1444.0	0.015	301	173
200	-1.443	-1.448	0.576	0.426	34.066	6.94	302	96.5	27.412	1028.4	64.7	0.140	1444.4	0.032	277	198
225	-1.416	-1.421	0.624	0.454	34.083	6.85	298	96.7	27.424	1028.5	63.4	0.156	1444.9	0.027	267	222
250	-1.434	-1.440	0.625	0.437	34.098	6.80	296	96.9	27.438	1028.6	62.0	0.172	1445.3	0.036	265	247
275	-1.306	-1.313	0.773	0.566	34.119	6.57	286	97.0	27.450	1028.8	60.7	0.188	1446.3	0.041	274	272
300	-1.206	-1.214	0.893	0.667	34.138	6.30	274	97.2	27.462	1028.9	59.6	0.203	1447.2	0.038	259	297
325	-0.996	-1.006	1.123	0.878	34.165	5.97	259	97.2	27.477	1029.0	58.3	0.217	1448.7	0.029	250	321
350	-0.654	-0.665	1.487	1.223	34.213	5.49	239	96.7	27.502	1029.2	56.2	0.232	1450.8	0.026	255	346
375	-0.301	-0.315	1.861	1.579	34.270	5.05	219	97.1	27.532	1029.3	53.7	0.245	1452.9	0.028	263	371
400	0.129	0.113	2.314	2.013	34.335	4.63	201	96.7	27.563	1029.5	51.2	0.259	1455.4	0.038	257	395
425	0.345	0.327	2.552	2.232	34.383	4.50	196	96.6	27.590	1029.6	48.9	0.271	1456.8	0.036	251	420
450	0.441	0.421	2.669	2.330	34.426	4.50	196	96.9	27.619	1029.7	46.3	0.283	1457.7	0.026	218	445
475	0.513	0.492	2.761	2.404	34.457	4.50	196	97.3	27.640	1029.9	44.5	0.294	1458.5	0.025	232	469
500	0.589	0.567	2.858	2.482	34.487	4.49	195	97.5	27.660	1030.0	42.8	0.305	1459.3	0.018	277	494
550	0.789	0.763	3.100	2.685	34.550	4.42	192	97.7	27.698	1030.3	39.5	0.326	1461.1	0.010	311	543
600	0.977	0.947	3.328	2.876	34.605	4.34	189	97.9	27.732	1030.6	36.8	0.345	1462.8	0.010	139	593
633	1.054	1.022	3.432	2.955	34.632	4.31	187	97.8	27.748	1030.7	35.5	0.357	1463.8			625

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	046B	2009/01/21	14:28	-74.7856	-101.6702	633	9	634	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
108	-0.810	-0.813	34.049	27.375	6.55	285	34.041					3	107
633	1.053	1.022	34.631	27.747	4.31	187	34.628	4.22	183			1	625

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	046U	2009/01/21	14:45	-74.7859	-101.6693	633	9	634	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.189	-0.189	1.673	1.672	33.930	9.13	397	27.252	1027.3	80.9	0.001	1446.8	1
25	-0.625	-0.626	1.258	1.239	33.993	8.41	366	27.323	1027.4	74.1	0.019	1445.3	25
50	-0.798	-0.799	1.105	1.067	34.000	8.07	351	27.335	1027.6	72.8	0.038	1444.9	50
75	-1.053	-1.055	0.869	0.813	34.011	7.76	337	27.354	1027.7	70.9	0.056	1444.1	74
100	-0.916	-0.919	1.026	0.950	34.030	7.16	311	27.364	1027.8	69.9	0.073	1445.2	99
125	-0.927	-0.930	1.035	0.941	34.047	6.75	293	27.379	1028.0	68.4	0.091	1445.6	124
150	-1.219	-1.223	0.762	0.649	34.051	6.82	296	27.392	1028.1	66.9	0.108	1444.6	148
175	-1.426	-1.430	0.574	0.442	34.048	7.07	307	27.396	1028.2	66.3	0.124	1444.0	173
200	-1.419	-1.424	0.600	0.449	34.063	7.00	304	27.408	1028.4	65.0	0.141	1444.5	198
225	-1.410	-1.415	0.629	0.460	34.079	6.84	298	27.421	1028.5	63.7	0.157	1445.0	222
250	-1.435	-1.442	0.623	0.435	34.093	6.84	297	27.433	1028.6	62.4	0.173	1445.3	247
275	-1.282	-1.289	0.796	0.589	34.116	6.52	284	27.447	1028.8	61.1	0.188	1446.4	272
300	-1.226	-1.234	0.872	0.646	34.130	6.40	278	27.456	1028.9	60.1	0.203	1447.1	297
325	-0.995	-1.004	1.124	0.880	34.161	6.04	262	27.473	1029.0	58.7	0.218	1448.7	321
350	-0.651	-0.662	1.489	1.225	34.201	5.56	242	27.492	1029.2	57.1	0.232	1450.8	346
375	-0.307	-0.321	1.855	1.572	34.260	5.15	224	27.525	1029.3	54.4	0.246	1452.8	371
400	0.147	0.131	2.332	2.031	34.332	4.65	202	27.560	1029.5	51.6	0.260	1455.4	395
425	0.344	0.327	2.551	2.231	34.378	4.51	196	27.586	1029.6	49.3	0.272	1456.8	420
450	0.444	0.425	2.672	2.333	34.422	4.50	196	27.616	1029.7	46.6	0.284	1457.7	445
475	0.512	0.491	2.760	2.402	34.452	4.50	196	27.637	1029.9	44.8	0.296	1458.5	469
500	0.590	0.568	2.859	2.483	34.482	4.49	195	27.656	1030.0	43.1	0.307	1459.3	494
550	0.787	0.762	3.098	2.683	34.545	4.43	192	27.695	1030.3	39.8	0.327	1461.1	543
600	0.979	0.950	3.330	2.879	34.603	4.35	189	27.730	1030.6	37.0	0.346	1462.9	593
633	1.054	1.022	3.432	2.955	34.632	4.31	187	27.748	1030.7	35.5	0.358	1463.8	625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0
20
v
u
Potential Temperature (°C)
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-0.5
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1.0
1.5
2.0
NBP0901 046
74 47.08 S 101 40.39 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**047D**	2009/01/22	09:53	-75.0592	-101.9554	798	10	798	2	5.0	126	-5.7	982.9

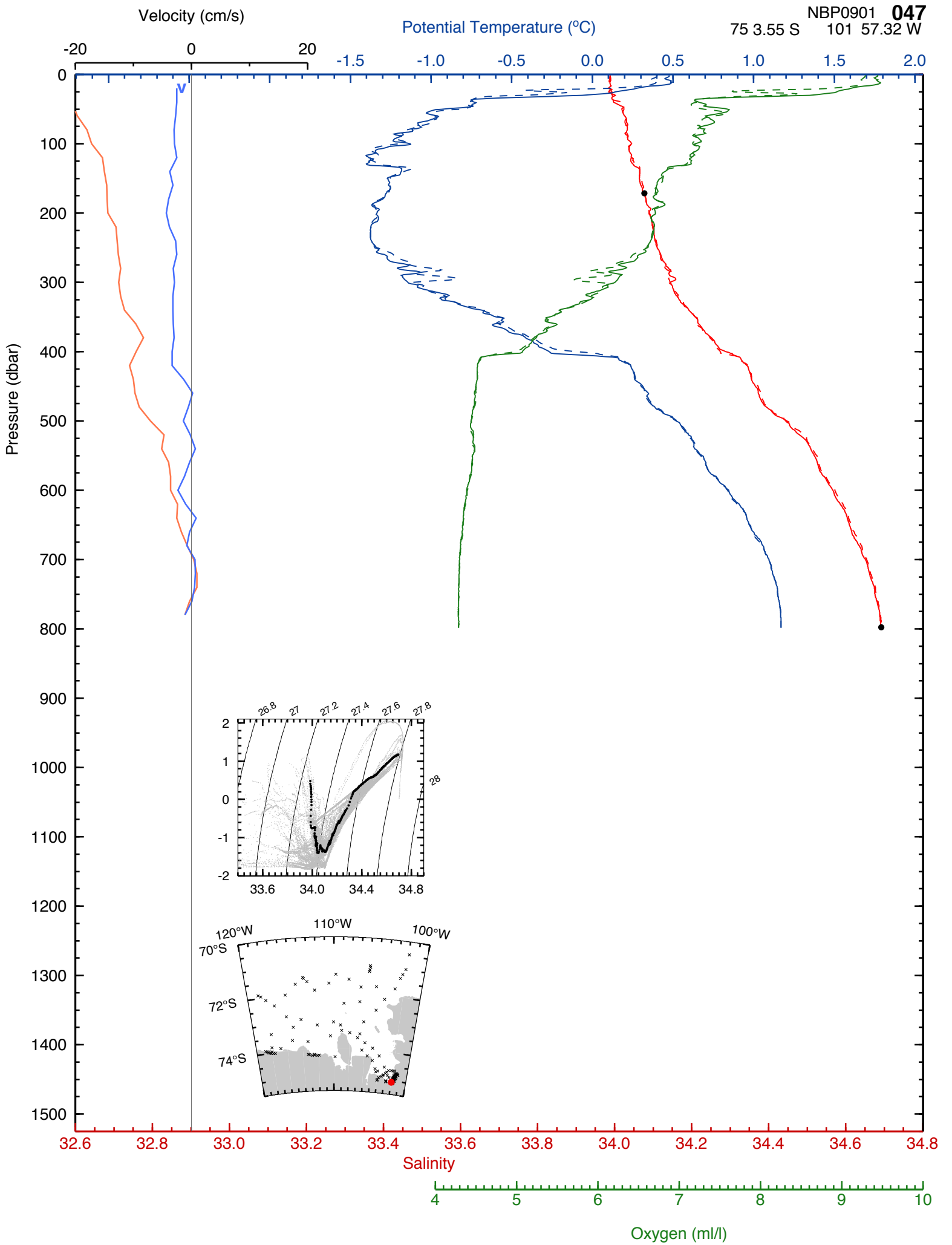
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.476	0.476	2.341	2.340	33.985	9.44	410	72.0	27.261	1027.3	80.1	0.001	1450.0			1
25	0.143	0.142	2.026	2.008	33.993	8.94	388	78.1	27.286	1027.4	77.7	0.020	1448.8	0.208	263	25
50	-0.934	-0.935	0.970	0.932	34.019	7.60	330	90.1	27.356	1027.6	70.9	0.038	1444.3	0.204	263	50
75	-1.068	-1.070	0.855	0.799	34.032	7.29	317	92.0	27.371	1027.7	69.3	0.056	1444.1	0.187	261	74
100	-1.127	-1.130	0.816	0.740	34.042	7.20	313	92.3	27.382	1027.9	68.2	0.073	1444.2	0.174	260	99
125	-1.384	-1.387	0.578	0.483	34.050	7.15	311	94.7	27.396	1028.0	66.6	0.090	1443.4	0.155	260	124
150	-1.267	-1.270	0.715	0.602	34.068	6.77	294	95.1	27.407	1028.1	65.4	0.106	1444.4	0.152	257	148
175	-1.281	-1.285	0.720	0.589	34.080	6.69	291	95.5	27.417	1028.3	64.4	0.123	1444.8	0.150	256	173
200	-1.331	-1.336	0.690	0.539	34.089	6.71	292	96.3	27.427	1028.4	63.3	0.138	1444.9	0.150	254	198
225	-1.371	-1.376	0.670	0.500	34.102	6.69	291	96.6	27.439	1028.5	62.0	0.154	1445.2	0.135	254	222
250	-1.342	-1.348	0.718	0.530	34.112	6.61	287	97.0	27.446	1028.6	61.3	0.170	1445.7	0.130	258	247
275	-1.127	-1.135	0.952	0.745	34.134	6.25	272	96.9	27.456	1028.8	60.4	0.185	1447.2	0.127	257	272
300	-1.136	-1.144	0.963	0.737	34.144	6.21	270	97.2	27.465	1028.9	59.4	0.200	1447.6	0.128	257	297
325	-0.925	-0.935	1.194	0.949	34.169	5.90	256	96.9	27.477	1029.0	58.3	0.214	1449.0	0.126	255	321
350	-0.579	-0.591	1.561	1.298	34.211	5.39	234	96.5	27.498	1029.2	56.7	0.229	1451.1	0.114	254	346
375	-0.446	-0.459	1.715	1.433	34.242	5.27	229	96.8	27.516	1029.3	55.0	0.243	1452.2	0.094	251	371
400	-0.254	-0.268	1.928	1.627	34.275	5.07	220	96.9	27.534	1029.4	53.5	0.256	1453.5	0.098	251	395
425	0.263	0.246	2.468	2.148	34.349	4.51	196	95.8	27.567	1029.6	51.0	0.269	1456.4	0.112	253	420
450	0.332	0.313	2.557	2.218	34.373	4.50	195	95.6	27.583	1029.7	49.6	0.282	1457.2	0.100	265	445
475	0.382	0.362	2.627	2.269	34.388	4.48	195	95.7	27.593	1029.8	48.8	0.294	1457.8	0.094	269	469
500	0.542	0.520	2.809	2.432	34.447	4.44	193	96.1	27.631	1030.0	45.4	0.306	1459.0	0.077	261	494
550	0.708	0.683	3.017	2.603	34.525	4.46	194	97.7	27.684	1030.3	40.7	0.328	1460.7	0.049	276	543
600	0.873	0.844	3.223	2.771	34.572	4.39	191	97.8	27.712	1030.5	38.5	0.347	1462.3	0.041	243	593
650	1.008	0.976	3.398	2.909	34.615	4.34	188	97.8	27.737	1030.8	36.5	0.366	1463.8	0.025	285	642
700	1.130	1.094	3.559	3.032	34.655	4.30	187	97.9	27.762	1031.0	34.5	0.384	1465.2	0.009	115	691
750	1.187	1.148	3.656	3.091	34.678	4.29	186	97.9	27.777	1031.3	33.4	0.401	1466.4	0.010	69	741
798	1.210	1.168	3.715	3.115	34.693	4.29	186	97.8	27.787	1031.5	32.6	0.417	1467.3			788

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	047B	2009/01/22	10:25	-75.0586	-101.9537	798	10	798	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
172	-1.258	-1.263	34.076	27.414	6.71	292	34.077					3	170
798	1.210	1.168	34.693	27.788	4.28	186	34.693					1	788

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	047U	2009/01/22	10:44	-75.0586	-101.9539	798	10	798	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.401	0.401	2.266	2.266	33.989	9.29	404	27.269	1027.3	79.3	0.001	1449.6	1
25	-0.211	-0.212	1.672	1.653	33.985	7.66	333	27.297	1027.4	76.5	0.020	1447.2	25
50	-0.825	-0.827	1.079	1.041	34.024	7.31	318	27.356	1027.6	70.9	0.038	1444.8	50
75	-1.080	-1.081	0.844	0.787	34.032	7.26	316	27.372	1027.7	69.2	0.055	1444.0	74
100	-1.197	-1.199	0.746	0.671	34.044	7.17	311	27.386	1027.9	67.7	0.073	1443.9	99
125	-1.354	-1.357	0.608	0.513	34.042	7.14	310	27.390	1028.0	67.2	0.089	1443.5	124
150	-1.251	-1.254	0.731	0.618	34.065	6.80	296	27.404	1028.1	65.7	0.106	1444.5	148
175	-1.285	-1.289	0.717	0.585	34.078	6.70	291	27.416	1028.3	64.5	0.122	1444.7	173
200	-1.335	-1.339	0.686	0.536	34.091	6.69	291	27.428	1028.4	63.2	0.138	1444.9	198
225	-1.369	-1.375	0.671	0.501	34.101	6.68	290	27.438	1028.5	62.2	0.154	1445.2	222
250	-1.328	-1.335	0.731	0.543	34.111	6.60	287	27.445	1028.6	61.4	0.169	1445.8	247
275	-1.124	-1.131	0.956	0.749	34.132	6.23	271	27.455	1028.8	60.5	0.185	1447.2	272
300	-1.101	-1.110	0.998	0.772	34.146	5.99	260	27.465	1028.9	59.4	0.200	1447.7	297
325	-0.898	-0.907	1.221	0.977	34.168	5.88	256	27.475	1029.0	58.6	0.214	1449.1	321
350	-0.559	-0.570	1.582	1.318	34.210	5.43	236	27.495	1029.2	56.9	0.229	1451.2	346
375	-0.409	-0.422	1.752	1.469	34.242	5.27	229	27.515	1029.3	55.2	0.243	1452.3	371
400	-0.086	-0.101	2.097	1.796	34.288	4.98	216	27.537	1029.4	53.5	0.256	1454.3	395
425	0.269	0.252	2.474	2.154	34.348	4.51	196	27.566	1029.6	51.1	0.269	1456.4	420
450	0.321	0.302	2.545	2.207	34.366	4.50	196	27.578	1029.7	50.1	0.282	1457.1	445
475	0.381	0.361	2.626	2.268	34.386	4.49	195	27.591	1029.8	49.0	0.294	1457.8	469
500	0.543	0.521	2.810	2.434	34.444	4.44	193	27.629	1030.0	45.6	0.306	1459.0	494
550	0.695	0.670	3.004	2.590	34.519	4.47	194	27.679	1030.3	41.2	0.328	1460.7	543
600	0.866	0.837	3.215	2.763	34.566	4.39	191	27.707	1030.5	38.9	0.348	1462.3	593
650	1.005	0.973	3.395	2.905	34.610	4.34	189	27.733	1030.8	36.8	0.367	1463.8	642
700	1.130	1.095	3.560	3.032	34.651	4.30	187	27.759	1031.0	34.8	0.385	1465.2	691
750	1.188	1.149	3.656	3.092	34.676	4.29	186	27.775	1031.3	33.6	0.402	1466.4	741
798	1.210	1.168	3.715	3.115	34.693	4.29	186	27.787	1031.5	32.6	0.418	1467.3	788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1.5
2.0
NBP0901 047
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101 57.32 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**048D**	2009/01/22	22:29	-74.9148	-101.9295	879	11	879	5	5.6	60	-1.9	978.6

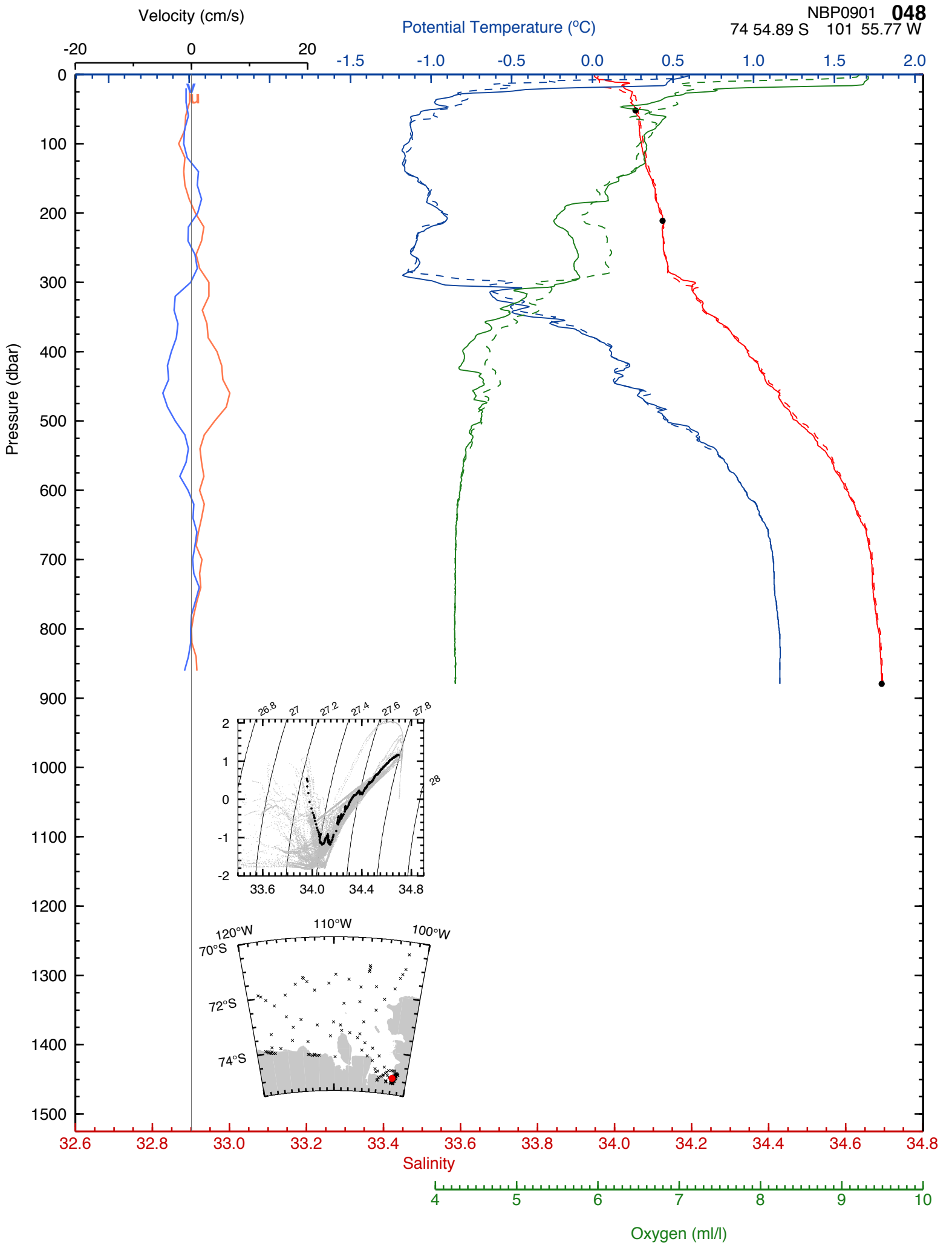
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.544	0.544	2.408	2.407	33.957	9.32	405	69.7	27.235	1027.2	82.5	0.002	1450.3			2
25	-0.559	-0.559	1.326	1.308	34.022	7.33	319	84.0	27.343	1027.5	72.2	0.020	1445.7	0.009	198	25
50	-0.969	-0.971	0.937	0.899	34.063	6.47	281	93.5	27.393	1027.6	67.3	0.037	1444.2	0.010	220	50
75	-1.126	-1.128	0.799	0.743	34.068	6.72	292	93.3	27.403	1027.8	66.3	0.054	1443.9	0.015	229	74
100	-1.149	-1.152	0.796	0.720	34.075	6.59	286	94.2	27.409	1027.9	65.6	0.070	1444.2	0.025	238	99
125	-1.168	-1.171	0.796	0.702	34.083	6.58	286	94.8	27.416	1028.0	64.8	0.087	1444.5	0.014	251	124
150	-1.077	-1.081	0.907	0.794	34.100	6.25	272	95.3	27.427	1028.1	63.7	0.103	1445.3	0.017	313	148
175	-1.009	-1.013	0.994	0.863	34.108	6.11	266	95.6	27.430	1028.3	63.3	0.118	1446.1	0.016	335	173
200	-0.923	-0.929	1.099	0.949	34.122	5.53	241	95.8	27.439	1028.4	62.4	0.134	1446.9	0.013	68	198
225	-1.034	-1.040	1.007	0.838	34.127	5.61	244	96.0	27.447	1028.5	61.5	0.150	1446.8	0.021	104	222
250	-1.099	-1.106	0.961	0.773	34.129	5.72	249	96.4	27.451	1028.6	60.9	0.165	1446.9	0.015	89	247
275	-1.070	-1.078	1.010	0.803	34.138	5.70	248	96.5	27.457	1028.8	60.3	0.180	1447.5	0.014	54	272
300	-0.957	-0.966	1.143	0.918	34.169	5.62	244	96.0	27.478	1028.9	58.3	0.195	1448.5	0.028	85	297
325	-0.584	-0.595	1.537	1.293	34.214	5.06	220	96.6	27.500	1029.0	56.6	0.209	1450.7	0.041	134	321
350	-0.353	-0.365	1.790	1.527	34.254	4.83	210	96.8	27.522	1029.2	54.6	0.223	1452.2	0.036	143	346
375	-0.037	-0.051	2.128	1.845	34.306	4.52	197	96.7	27.549	1029.3	52.4	0.237	1454.2	0.037	131	371
400	0.132	0.116	2.318	2.017	34.350	4.34	189	96.8	27.575	1029.5	50.1	0.249	1455.4	0.052	129	395
425	0.214	0.197	2.421	2.101	34.382	4.29	187	97.1	27.597	1029.6	48.2	0.262	1456.2	0.066	128	420
450	0.232	0.214	2.460	2.121	34.415	4.56	198	97.7	27.622	1029.8	45.8	0.274	1456.8	0.070	126	445
475	0.374	0.354	2.622	2.265	34.445	4.61	200	97.6	27.639	1029.9	44.4	0.285	1457.9	0.078	126	469
500	0.488	0.466	2.757	2.380	34.478	4.56	198	97.8	27.659	1030.0	42.7	0.296	1458.8	0.056	125	494
550	0.812	0.786	3.123	2.709	34.560	4.37	190	97.8	27.706	1030.3	38.9	0.316	1461.2	0.017	110	543
600	0.973	0.944	3.324	2.872	34.606	4.30	187	97.8	27.733	1030.6	36.7	0.335	1462.8	0.020	121	593
650	1.105	1.072	3.497	3.007	34.650	4.26	185	97.9	27.759	1030.8	34.6	0.353	1464.3	0.017	77	642
700	1.157	1.121	3.587	3.060	34.670	4.24	184	97.9	27.772	1031.1	33.6	0.370	1465.4	0.015	70	691
750	1.170	1.131	3.638	3.074	34.675	4.25	184	97.9	27.775	1031.3	33.5	0.387	1466.3	0.021	51	741
800	1.198	1.157	3.705	3.103	34.688	4.24	184	97.9	27.784	1031.5	32.9	0.403	1467.2	0.003	135	790
850	1.208	1.163	3.752	3.112	34.694	4.25	185	97.9	27.789	1031.8	32.6	0.420	1468.1	0.009	123	839
879	1.210	1.163	3.776	3.114	34.695	4.25	184	97.8	27.789	1031.9	32.7	0.429	1468.6			868

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	048B	2009/01/22	22:51	-74.9149	-101.9292	879	11	879	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
52	-0.980	-0.981	34.059	27.390	6.64	289	34.054					10	51
211	-0.907	-0.913	34.127	27.442	5.81	252	34.124					8	209
403	0.154	0.138	34.354	27.578	4.65	202						6	398
500	0.511	0.489	34.481	27.660	4.57	198						4	494
879	1.210	1.163	34.695	27.789	4.25	184	34.694					3,2	868

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	048U	2009/01/22	23:15	-74.9149	-101.9293	879	11	879	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.594	0.594	2.457	2.456	33.949	9.22	401	27.225	1027.2	83.4	0.001	1450.5	1
25	-0.802	-0.802	1.085	1.066	34.046	7.01	305	27.372	1027.5	69.4	0.019	1444.5	25
50	-0.922	-0.923	0.984	0.946	34.057	6.76	294	27.386	1027.6	68.0	0.036	1444.4	50
75	-1.124	-1.126	0.801	0.744	34.064	6.71	292	27.399	1027.8	66.6	0.053	1443.9	74
100	-1.116	-1.119	0.828	0.753	34.070	6.51	283	27.404	1027.9	66.1	0.070	1444.3	99
125	-1.155	-1.159	0.808	0.714	34.080	6.47	281	27.413	1028.0	65.0	0.086	1444.5	124
150	-1.081	-1.085	0.902	0.790	34.095	6.20	269	27.423	1028.1	64.0	0.102	1445.3	148
175	-1.017	-1.021	0.986	0.854	34.105	6.03	262	27.429	1028.3	63.4	0.118	1446.0	173
200	-0.922	-0.928	1.100	0.950	34.118	5.87	255	27.436	1028.4	62.7	0.134	1446.9	198
225	-1.075	-1.081	0.966	0.797	34.124	6.10	265	27.447	1028.5	61.5	0.149	1446.6	222
250	-1.107	-1.113	0.954	0.766	34.127	6.14	267	27.450	1028.6	61.1	0.165	1446.9	247
275	-1.103	-1.111	0.977	0.770	34.138	6.11	265	27.459	1028.8	60.1	0.180	1447.3	272
300	-0.484	-0.494	1.619	1.393	34.209	5.24	228	27.491	1028.9	57.5	0.195	1450.7	297
325	-0.459	-0.470	1.663	1.418	34.220	5.26	229	27.500	1029.0	56.7	0.209	1451.3	321
350	-0.216	-0.229	1.927	1.664	34.261	4.96	215	27.521	1029.2	54.8	0.223	1452.8	346
375	-0.010	-0.024	2.155	1.873	34.306	4.75	207	27.547	1029.3	52.6	0.236	1454.3	371
400	0.126	0.110	2.312	2.011	34.345	4.67	203	27.572	1029.5	50.4	0.249	1455.4	395
425	0.162	0.145	2.368	2.048	34.376	4.70	204	27.595	1029.6	48.3	0.262	1456.0	420
450	0.227	0.209	2.454	2.115	34.406	4.76	207	27.616	1029.7	46.4	0.273	1456.7	445
475	0.361	0.341	2.609	2.251	34.437	4.64	202	27.633	1029.9	45.0	0.285	1457.8	469
500	0.491	0.469	2.759	2.383	34.473	4.56	198	27.655	1030.0	43.1	0.296	1458.8	494
550	0.807	0.782	3.118	2.704	34.554	4.38	190	27.701	1030.3	39.3	0.316	1461.2	543
600	0.974	0.945	3.326	2.874	34.603	4.31	187	27.730	1030.6	37.0	0.336	1462.8	593
650	1.102	1.070	3.494	3.004	34.645	4.26	185	27.756	1030.8	34.9	0.354	1464.3	642
700	1.157	1.121	3.587	3.060	34.667	4.25	185	27.770	1031.1	33.9	0.371	1465.4	691
750	1.170	1.132	3.639	3.074	34.672	4.25	185	27.773	1031.3	33.7	0.388	1466.3	741
800	1.198	1.156	3.705	3.102	34.684	4.24	184	27.781	1031.5	33.2	0.404	1467.2	790
850	1.208	1.163	3.752	3.112	34.692	4.25	185	27.787	1031.8	32.8	0.421	1468.1	839
879	1.210	1.163	3.776	3.114	34.695	4.25	184	27.789	1031.9	32.7	0.430	1468.6	868


NBP0901 048
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Velocity (cm/s)
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20
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Potential Temperature (°C)
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-1.0
-0.5
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Pressure (dbar)
0
100
200
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400
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900
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1100
1200
1300
1400
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26.8
27
27.2
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2
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-1
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33.6
34.0
34.4
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
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34.0
34.2
34.4
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34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**049D**	2009/01/23	01:47	-74.7546	-101.6186	508	9	511	3	6.2	93	-1.9	979.2

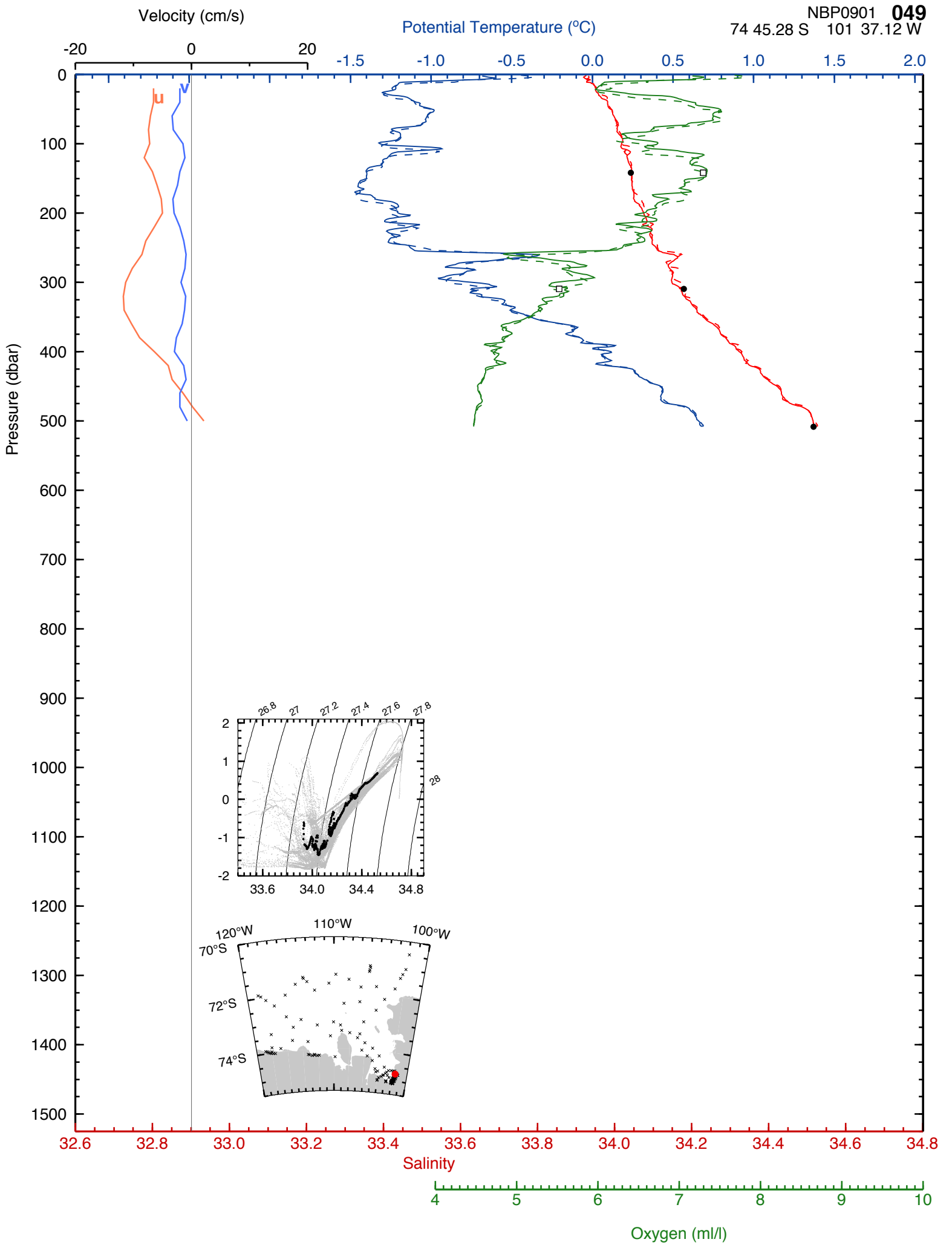
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.682	-0.682	1.180	1.179	33.931	7.16	311	88.6	27.275	1027.3	78.7	0.002	1444.6			2
25	-1.289	-1.290	0.592	0.573	33.956	6.22	270	96.1	27.317	1027.4	74.6	0.019	1442.1	0.068	253	25
50	-0.991	-0.992	0.911	0.874	33.992	7.50	326	91.5	27.336	1027.6	72.7	0.038	1444.0	0.073	249	50
75	-1.100	-1.102	0.822	0.765	34.003	6.80	296	92.0	27.349	1027.7	71.4	0.055	1443.9	0.079	247	74
100	-1.315	-1.318	0.626	0.551	34.018	6.74	293	96.1	27.368	1027.8	69.4	0.073	1443.3	0.074	258	99
125	-1.298	-1.301	0.664	0.570	34.040	7.14	310	94.0	27.386	1028.0	67.6	0.090	1443.8	0.080	261	124
150	-1.395	-1.399	0.585	0.472	34.046	7.19	312	94.6	27.393	1028.1	66.7	0.107	1443.8	0.068	251	148
175	-1.362	-1.367	0.638	0.506	34.059	6.67	290	96.1	27.403	1028.2	65.6	0.123	1444.3	0.062	242	173
200	-1.199	-1.205	0.821	0.670	34.083	6.55	285	95.8	27.417	1028.4	64.3	0.140	1445.6	0.058	239	198
225	-1.265	-1.271	0.774	0.605	34.089	6.66	289	96.2	27.424	1028.5	63.5	0.156	1445.7	0.069	254	222
250	-1.121	-1.128	0.939	0.750	34.112	6.30	274	96.4	27.438	1028.6	62.2	0.171	1446.8	0.082	262	247
275	-0.857	-0.865	1.223	1.016	34.134	5.83	253	96.0	27.446	1028.8	61.5	0.187	1448.5	0.096	264	272
300	-0.736	-0.746	1.364	1.138	34.172	5.48	238	96.8	27.472	1028.9	59.1	0.202	1449.5	0.112	261	297
325	-0.538	-0.548	1.583	1.339	34.199	5.32	231	96.4	27.486	1029.0	57.9	0.217	1450.9	0.117	265	321
350	-0.374	-0.386	1.768	1.504	34.235	5.15	224	96.5	27.507	1029.2	56.0	0.231	1452.1	0.113	263	346
375	-0.148	-0.162	2.015	1.733	34.277	4.93	214	96.5	27.530	1029.3	54.0	0.245	1453.6	0.098	257	371
400	0.132	0.116	2.317	2.016	34.331	4.70	204	96.2	27.560	1029.5	51.6	0.258	1455.4	0.075	247	395
425	0.266	0.248	2.473	2.153	34.380	4.62	201	96.9	27.592	1029.6	48.6	0.270	1456.5	0.042	252	420
450	0.445	0.425	2.673	2.334	34.427	4.52	196	97.0	27.620	1029.7	46.3	0.282	1457.7	0.032	246	445
475	0.489	0.469	2.738	2.381	34.462	4.55	198	97.3	27.646	1029.9	43.9	0.294	1458.4	0.023	197	469
500	0.681	0.658	2.952	2.575	34.517	4.48	195	97.5	27.679	1030.0	41.1	0.304	1459.8	0.021	128	494
508	0.706	0.683	2.983	2.601	34.524	4.47	194	97.5	27.683	1030.1	40.8	0.307	1460.0			502

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	049B	2009/01/23	02:00	-74.7545	-101.6186	508	9	511	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
142	-1.400	-1.403	34.044	27.392	7.31	318	34.042	7.30	317			6	140
309	-0.626	-0.636	34.175	27.471	5.49	238	34.180	5.52	240			4,3	306
508	0.702	0.679	34.523	27.682	4.47	194	34.517					2	502

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	049U	2009/01/23	02:16	-74.7544	-101.6183	508	9	511	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.444	-0.444	1.417	1.416	33.927	7.68	334	27.261	1027.3	80.1	0.001	1445.7	1
25	-1.253	-1.254	0.628	0.609	33.953	6.01	261	27.314	1027.4	74.9	0.019	1442.3	25
50	-0.998	-1.000	0.904	0.866	33.990	7.30	317	27.334	1027.6	72.9	0.038	1444.0	50
75	-1.107	-1.109	0.815	0.758	34.008	7.09	308	27.354	1027.7	70.9	0.056	1443.9	74
100	-1.270	-1.273	0.671	0.596	34.018	6.52	283	27.367	1027.8	69.5	0.073	1443.5	99
125	-1.283	-1.286	0.678	0.584	34.035	7.25	315	27.382	1028.0	68.0	0.090	1443.9	124
150	-1.399	-1.402	0.582	0.469	34.044	7.29	317	27.393	1028.1	66.8	0.107	1443.8	148
175	-1.464	-1.468	0.536	0.404	34.050	7.11	309	27.399	1028.2	66.0	0.124	1443.8	173
200	-1.231	-1.236	0.789	0.639	34.075	6.70	291	27.412	1028.4	64.8	0.140	1445.4	198
225	-1.145	-1.151	0.895	0.726	34.097	6.32	275	27.427	1028.5	63.3	0.156	1446.2	222
250	-1.052	-1.059	1.008	0.819	34.109	6.24	271	27.433	1028.6	62.7	0.172	1447.1	247
275	-0.795	-0.803	1.285	1.078	34.139	5.62	244	27.448	1028.8	61.4	0.188	1448.8	272
300	-0.882	-0.890	1.218	0.992	34.148	5.88	256	27.459	1028.9	60.2	0.203	1448.8	297
325	-0.617	-0.627	1.503	1.259	34.190	5.46	237	27.482	1029.0	58.2	0.218	1450.5	321
350	-0.360	-0.372	1.782	1.518	34.230	5.17	225	27.503	1029.2	56.4	0.232	1452.1	346
375	-0.125	-0.138	2.039	1.756	34.276	4.90	213	27.529	1029.3	54.2	0.246	1453.7	371
400	0.104	0.089	2.289	1.988	34.324	4.73	206	27.556	1029.5	51.9	0.259	1455.2	395
425	0.271	0.253	2.477	2.157	34.376	4.66	202	27.588	1029.6	49.0	0.272	1456.5	420
450	0.437	0.418	2.665	2.326	34.422	4.54	197	27.617	1029.7	46.6	0.284	1457.7	445
475	0.495	0.474	2.744	2.386	34.457	4.57	199	27.642	1029.9	44.3	0.295	1458.4	469
500	0.682	0.659	2.953	2.576	34.515	4.48	195	27.677	1030.0	41.3	0.306	1459.8	494
508	0.706	0.683	2.983	2.601	34.524	4.47	194	27.683	1030.1	40.8	0.309	1460.0	502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Potential Temperature (°C)
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0.5
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1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
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900
1000
1100
1200
1300
1400
1500
26.8
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27.2
27.4
27.6
27.8
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2
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0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**050D**	2009/01/23	03:01	-74.7385	-101.5662	541	8	543	3	5.4	134	-2.1	979.5

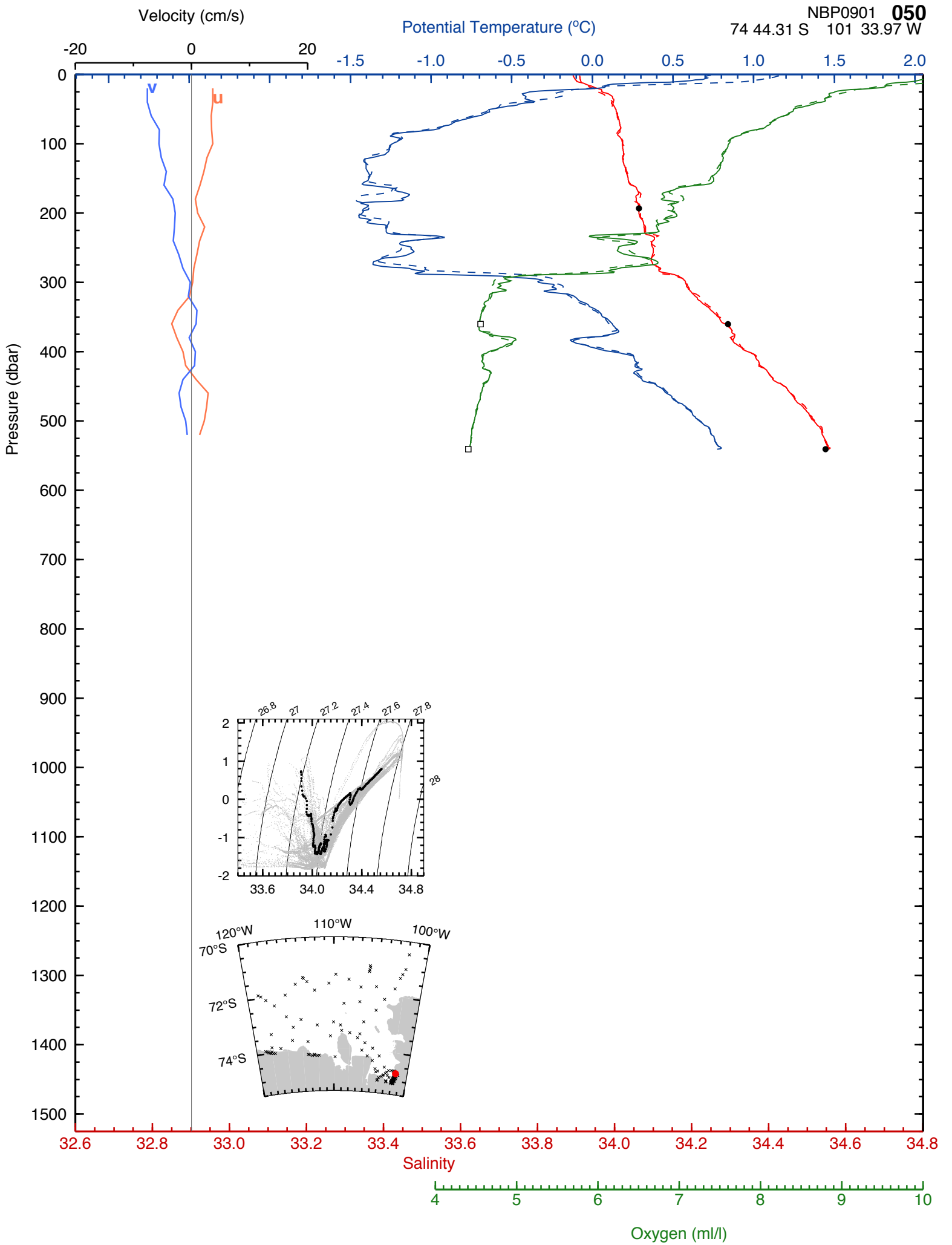
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.735	0.735	2.595	2.595	33.909	10.04	436		27.185	1027.2	87.3	0.001	1451.0			1
25	-0.387	-0.388	1.494	1.475	33.956	8.91	388		27.282	1027.4	78.0	0.021	1446.4	0.085	154	25
50	-0.631	-0.632	1.272	1.234	33.997	8.41	365		27.326	1027.6	73.7	0.040	1445.7	0.081	154	50
75	-0.922	-0.924	1.001	0.944	34.015	8.07	351		27.352	1027.7	71.1	0.058	1444.8	0.069	149	74
100	-1.238	-1.240	0.703	0.628	34.021	7.61	331		27.369	1027.8	69.4	0.075	1443.7	0.067	147	99
125	-1.415	-1.417	0.546	0.452	34.024	7.53	327		27.377	1028.0	68.4	0.093	1443.2	0.057	153	124
150	-1.383	-1.387	0.597	0.484	34.036	7.42	323		27.386	1028.1	67.4	0.110	1443.8	0.048	157	148
175	-1.135	-1.140	0.865	0.733	34.067	6.81	296		27.403	1028.2	65.8	0.126	1445.4	0.038	166	173
200	-1.422	-1.426	0.598	0.447	34.067	6.95	302		27.412	1028.4	64.7	0.143	1444.5	0.030	160	198
225	-1.274	-1.279	0.766	0.596	34.081	6.75	293		27.418	1028.5	64.1	0.159	1445.6	0.037	143	222
250	-1.117	-1.124	0.942	0.754	34.105	6.26	272		27.432	1028.6	62.7	0.175	1446.8	0.030	156	247
275	-1.343	-1.350	0.735	0.528	34.102	6.65	289		27.438	1028.8	61.9	0.190	1446.1	0.019	162	272
300	-0.325	-0.335	1.776	1.550	34.180	4.86	211		27.460	1028.9	60.6	0.205	1451.4	0.005	140	297
325	-0.077	-0.089	2.046	1.801	34.227	4.65	202		27.487	1029.0	58.2	0.220	1453.0	0.007	216	321
350	0.081	0.068	2.225	1.962	34.273	4.55	198		27.516	1029.2	55.7	0.235	1454.2	0.028	289	346
375	0.129	0.115	2.294	2.012	34.310	4.67	203		27.543	1029.3	53.1	0.248	1454.9	0.030	271	371
400	0.135	0.119	2.321	2.020	34.348	4.66	202		27.574	1029.5	50.3	0.261	1455.4	0.019	287	395
425	0.326	0.309	2.533	2.213	34.391	4.60	200		27.598	1029.6	48.2	0.273	1456.8	0.011	297	420
450	0.425	0.406	2.654	2.315	34.441	4.59	200		27.633	1029.8	45.1	0.285	1457.7	0.021	146	445
475	0.572	0.551	2.823	2.465	34.487	4.53	197		27.661	1029.9	42.6	0.296	1458.8	0.034	125	469
500	0.686	0.663	2.957	2.581	34.520	4.48	195		27.681	1030.0	41.0	0.306	1459.8	0.026	117	494
541	0.799	0.774	3.103	2.696	34.550	4.43	193		27.698	1030.2	39.5	0.323	1461.0			534

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	050B	2009/01/23	03:16	-74.7383	-101.5661	540	8	543	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
193	-1.377	-1.382	34.066	27.409	6.88	299	34.063					5	191
360	0.106	0.092	34.304	27.540	4.60	200	34.295	4.56	198			3	356
540	0.820	0.795	34.559	27.704	4.42	192	34.547	4.40	191			2,1	534

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	050U	2009/01/23	03:31	-74.7395	-101.5683	540	8	543	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	1.150	1.150	3.010	3.009	33.893	10.32	449	27.146	1027.2	91.0	0.001	1452.9	1
25	-0.194	-0.195	1.688	1.670	33.968	9.06	394	27.283	1027.4	77.9	0.021	1447.3	25
50	-0.621	-0.623	1.282	1.244	34.003	8.38	364	27.331	1027.6	73.3	0.040	1445.7	50
75	-0.926	-0.928	0.996	0.940	34.015	8.07	351	27.353	1027.7	71.1	0.058	1444.7	74
100	-1.241	-1.244	0.700	0.625	34.020	7.60	330	27.368	1027.8	69.4	0.076	1443.7	99
125	-1.409	-1.411	0.552	0.458	34.022	7.51	327	27.375	1028.0	68.6	0.093	1443.3	124
150	-1.397	-1.400	0.583	0.470	34.035	7.39	321	27.385	1028.1	67.5	0.110	1443.7	148
175	-1.430	-1.435	0.570	0.438	34.056	7.02	305	27.404	1028.2	65.6	0.127	1444.0	173
200	-1.450	-1.454	0.570	0.419	34.063	6.97	303	27.410	1028.4	64.9	0.143	1444.3	198
225	-1.261	-1.266	0.778	0.609	34.078	6.72	292	27.415	1028.5	64.3	0.159	1445.7	222
250	-1.178	-1.185	0.881	0.692	34.100	6.40	278	27.430	1028.6	62.8	0.175	1446.5	247
275	-1.150	-1.157	0.928	0.721	34.103	6.46	281	27.432	1028.7	62.6	0.191	1447.0	272
300	-0.213	-0.223	1.889	1.663	34.184	4.72	205	27.459	1028.9	60.8	0.206	1452.0	297
325	-0.105	-0.117	2.017	1.773	34.217	4.67	203	27.480	1029.0	58.8	0.221	1452.9	321
350	0.085	0.071	2.229	1.965	34.270	4.56	198	27.513	1029.2	55.9	0.235	1454.2	346
375	0.127	0.112	2.292	2.010	34.311	4.68	203	27.544	1029.3	53.0	0.249	1454.9	371
400	0.183	0.167	2.369	2.068	34.346	4.69	204	27.569	1029.5	50.7	0.262	1455.6	395
425	0.298	0.281	2.505	2.185	34.391	4.62	201	27.600	1029.6	48.0	0.274	1456.6	420
450	0.442	0.423	2.671	2.332	34.442	4.59	199	27.633	1029.8	45.1	0.286	1457.8	445
475	0.563	0.542	2.813	2.456	34.478	4.54	197	27.655	1029.9	43.2	0.297	1458.8	469
500	0.691	0.668	2.962	2.586	34.518	4.48	195	27.679	1030.0	41.2	0.308	1459.8	494
541	0.799	0.774	3.103	2.696	34.550	4.43	193	27.698	1030.2	39.5	0.324	1461.0	534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Potential Temperature (°C)
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Pressure (dbar)
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33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**051D**	2009/01/23	04:08	-74.7282	-101.4203	532	9	535	6	4.7	111	-2.2	980.0

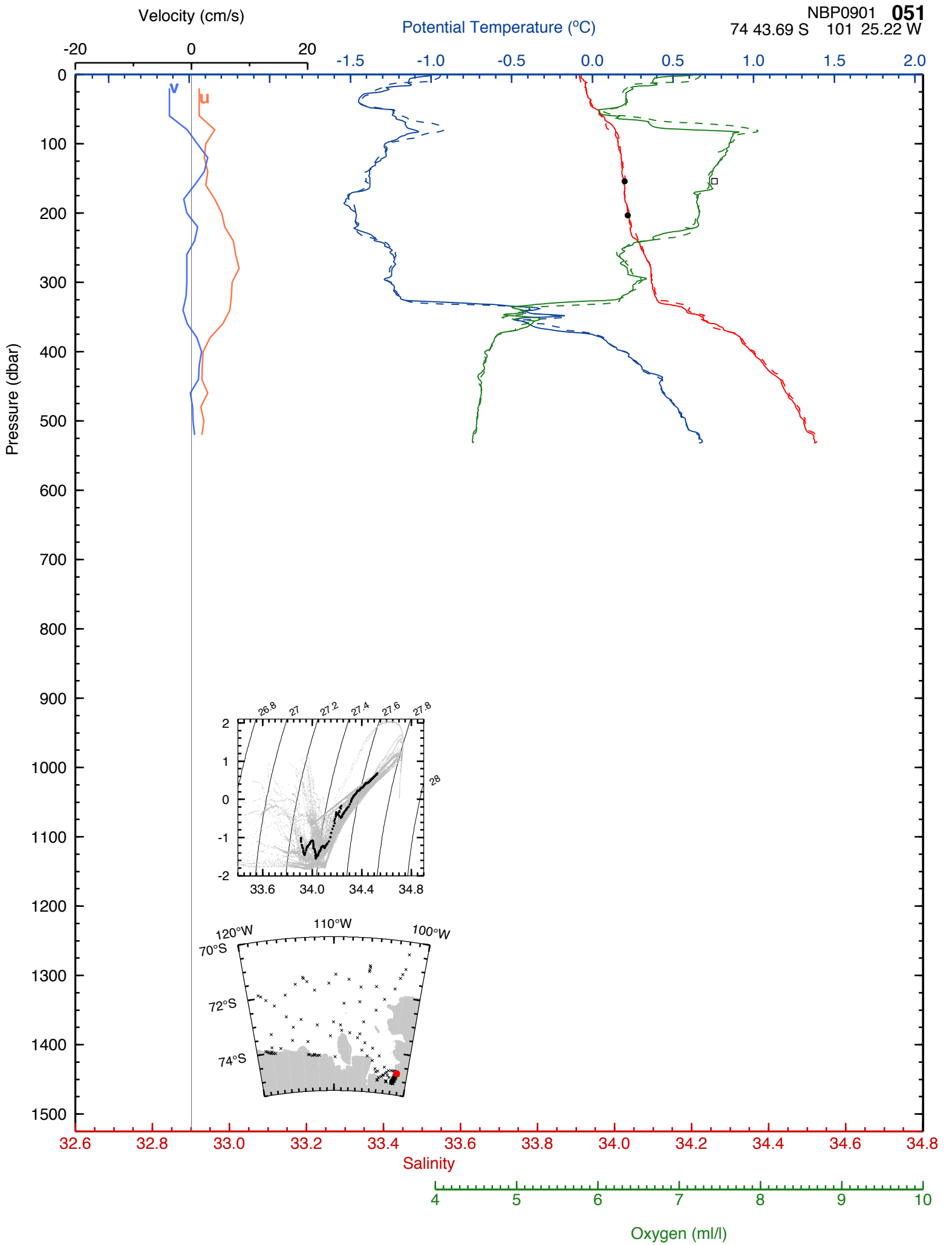
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.003	-1.003	0.858	0.857	33.910	7.17	312	90.5	27.270	1027.3	79.2	0.001	1443.0			1
25	-1.310	-1.310	0.570	0.551	33.927	6.36	277	95.3	27.294	1027.4	76.7	0.020	1442.0	0.040	161	25
50	-1.276	-1.278	0.624	0.586	33.955	6.06	264	95.8	27.316	1027.6	74.6	0.038	1442.6	0.040	161	50
75	-1.153	-1.154	0.768	0.711	33.978	6.67	290	94.2	27.331	1027.7	73.1	0.057	1443.6	0.041	118	74
100	-1.283	-1.286	0.658	0.582	34.011	7.62	331	91.4	27.362	1027.8	69.9	0.075	1443.4	0.028	70	99
125	-1.316	-1.319	0.644	0.550	34.020	7.50	326	92.3	27.370	1028.0	69.1	0.092	1443.7	0.036	41	124
150	-1.375	-1.379	0.604	0.491	34.027	7.37	320		27.378	1028.1	68.2	0.109	1443.8	0.031	63	148
175	-1.506	-1.510	0.493	0.361	34.027	7.23	314		27.382	1028.2	67.6	0.126	1443.6	0.036	98	173
200	-1.462	-1.467	0.555	0.405	34.037	7.25	315		27.389	1028.3	66.8	0.143	1444.2	0.052	100	198
225	-1.442	-1.447	0.595	0.426	34.048	7.04	306		27.397	1028.5	65.9	0.160	1444.8	0.060	80	222
250	-1.254	-1.260	0.804	0.616	34.072	6.32	275		27.410	1028.6	64.7	0.176	1446.1	0.073	90	247
275	-1.216	-1.223	0.862	0.655	34.093	6.31	274		27.426	1028.7	63.1	0.192	1446.7	0.080	96	272
300	-1.240	-1.248	0.857	0.631	34.102	6.47	281		27.435	1028.9	62.2	0.208	1447.0	0.072	96	297
325	-1.166	-1.175	0.951	0.706	34.118	6.21	270		27.445	1029.0	61.2	0.223	1447.8	0.070	98	321
350	-0.297	-0.310	1.844	1.580	34.219	5.19	225		27.491	1029.2	57.6	0.238	1452.4	0.064	101	346
375	0.011	-0.003	2.177	1.894	34.318	4.77	207		27.556	1029.3	51.8	0.251	1454.4	0.043	85	371
400	0.220	0.204	2.407	2.106	34.363	4.61	200		27.581	1029.5	49.6	0.264	1455.8	0.028	55	395
425	0.326	0.309	2.534	2.214	34.403	4.60	200		27.608	1029.6	47.3	0.276	1456.8	0.023	56	420
450	0.444	0.425	2.673	2.334	34.442	4.56	198		27.633	1029.8	45.1	0.288	1457.8	0.023	65	445
475	0.524	0.503	2.774	2.416	34.472	4.54	197		27.652	1029.9	43.4	0.299	1458.6	0.022	89	469
500	0.599	0.577	2.869	2.492	34.494	4.51	196		27.665	1030.0	42.3	0.310	1459.3	0.019	82	494
532	0.686	0.661	2.981	2.580	34.518	4.46	194	72.0	27.680	1030.2	41.1	0.323	1460.3			526

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	051B	2009/01/23	04:23	-74.7282	-101.4201	532	9	535	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
38	-1.430	-1.431	33.939	27.308	6.34	276						11	37
154	-1.405	-1.409	34.026	27.378	7.33	319	34.026	7.43	323			9	153
204	-1.460	-1.465	34.039	27.390	7.21	314	34.034					7	201
278	-1.249	-1.256	34.095	27.429	6.41	279						5	275
361	-0.097	-0.111	34.294	27.542	4.98	217						3	356
532	0.696	0.672	34.521	27.681	4.46	194						1	526

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	051U	2009/01/23	04:41	-74.7293	-101.4209	532	9	535	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.946	-0.946	0.915	0.914	33.915	7.26	316	27.272	1027.3	79.0	0.001	1443.3	1
25	-1.357	-1.357	0.523	0.504	33.928	6.31	274	27.296	1027.4	76.5	0.019	1441.8	25
50	-1.264	-1.266	0.636	0.598	33.953	6.14	267	27.314	1027.6	74.8	0.038	1442.6	50
75	-0.931	-0.933	0.991	0.934	33.996	7.70	335	27.337	1027.7	72.5	0.057	1444.7	74
100	-1.271	-1.274	0.669	0.594	34.009	7.61	331	27.360	1027.8	70.2	0.075	1443.5	99
125	-1.341	-1.344	0.619	0.525	34.018	7.50	326	27.369	1028.0	69.1	0.092	1443.6	124
150	-1.400	-1.404	0.579	0.466	34.023	7.37	320	27.375	1028.1	68.4	0.109	1443.7	148
175	-1.513	-1.517	0.486	0.354	34.026	7.22	314	27.381	1028.2	67.7	0.126	1443.6	173
200	-1.464	-1.469	0.553	0.403	34.035	7.24	315	27.387	1028.3	67.0	0.143	1444.2	198
225	-1.453	-1.458	0.584	0.414	34.041	7.19	313	27.392	1028.5	66.4	0.160	1444.7	222
250	-1.245	-1.251	0.812	0.624	34.068	6.33	275	27.407	1028.6	65.0	0.176	1446.1	247
275	-1.237	-1.244	0.840	0.633	34.091	6.37	277	27.426	1028.7	63.1	0.192	1446.6	272
300	-1.248	-1.256	0.849	0.623	34.096	6.52	283	27.430	1028.9	62.6	0.208	1447.0	297
325	-1.153	-1.162	0.963	0.718	34.110	6.27	272	27.438	1029.0	61.9	0.223	1447.8	321
350	-0.170	-0.183	1.971	1.708	34.227	4.83	210	27.491	1029.2	57.7	0.238	1453.0	346
375	0.031	0.016	2.196	1.914	34.315	4.79	208	27.552	1029.3	52.2	0.252	1454.5	371
400	0.212	0.196	2.398	2.097	34.356	4.65	202	27.576	1029.5	50.1	0.265	1455.8	395
425	0.330	0.312	2.537	2.217	34.397	4.59	199	27.602	1029.6	47.8	0.277	1456.8	420
450	0.437	0.418	2.666	2.327	34.437	4.56	198	27.629	1029.8	45.4	0.289	1457.7	445
475	0.520	0.499	2.769	2.411	34.467	4.55	198	27.648	1029.9	43.8	0.300	1458.5	469
500	0.599	0.577	2.869	2.492	34.491	4.51	196	27.663	1030.0	42.5	0.311	1459.3	494
532	0.686	0.661	2.981	2.580	34.518	4.46	194	27.680	1030.2	41.1	0.324	1460.3	526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20
v
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Potential Temperature (°C)
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1.5
2.0
Pressure (dbar)
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100
200
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700
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900
1000
1100
1200
1300
1400
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26.8
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27.2
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27.6
27.8
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34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**052D**	2009/01/23	05:06	-74.7365	-101.3976	530	10	533	7	5.9	91	-2.1	980.7

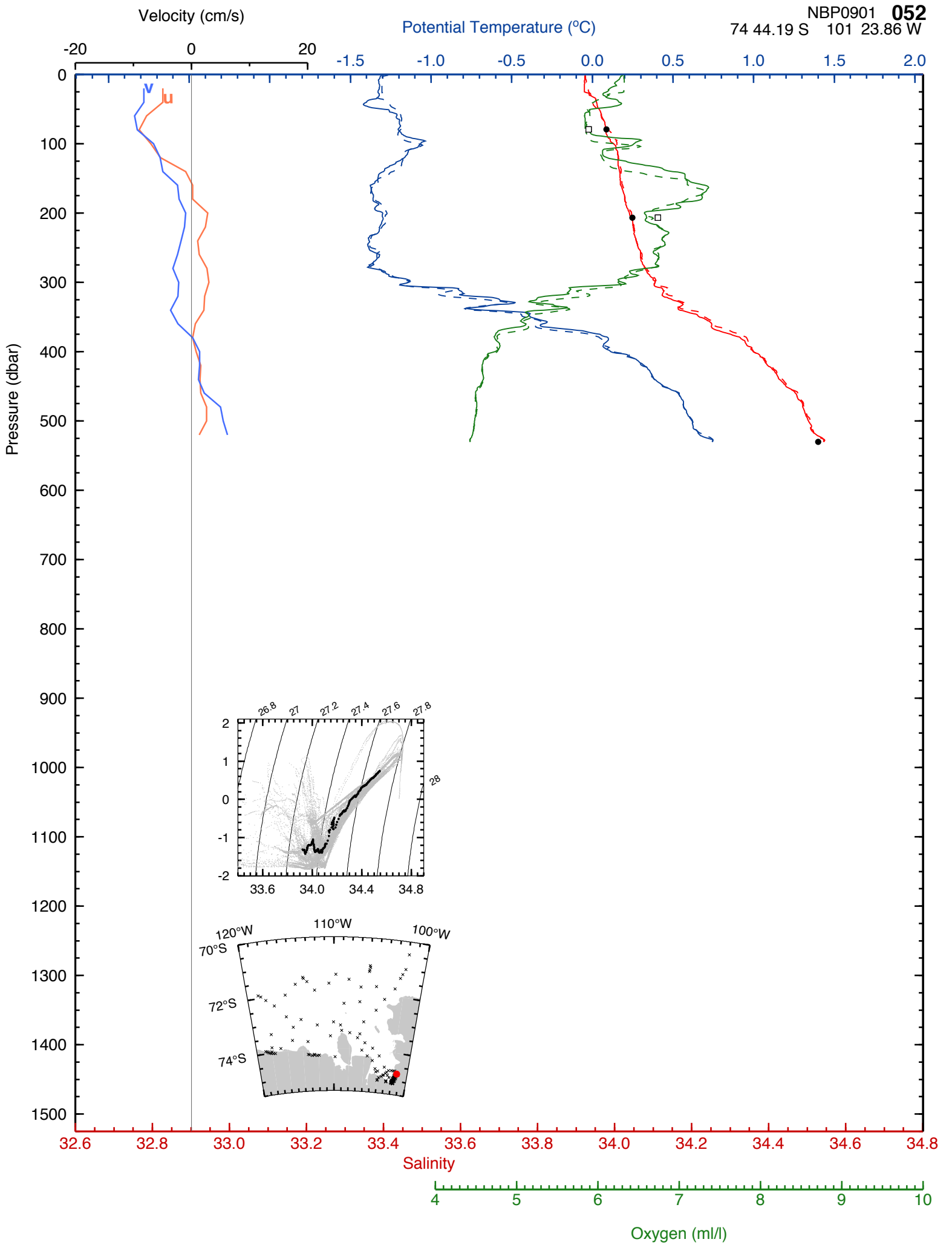
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.307	-1.307	0.554	0.554	33.923	6.30	274	96.1	27.291	1027.3	77.2	0.001	1441.6			1
25	-1.329	-1.329	0.551	0.533	33.933	6.11	266	96.1	27.300	1027.4	76.2	0.019	1441.9	0.096	211	25
50	-1.289	-1.290	0.611	0.574	33.959	5.91	257	96.1	27.320	1027.6	74.2	0.038	1442.5	0.110	214	50
75	-1.189	-1.190	0.731	0.675	33.975	5.86	255	96.5	27.329	1027.7	73.2	0.056	1443.4	0.128	222	74
100	-1.062	-1.065	0.879	0.803	34.006	6.45	280	92.7	27.350	1027.8	71.1	0.074	1444.5	0.098	227	99
125	-1.199	-1.202	0.761	0.667	34.012	6.34	276	96.0	27.360	1028.0	70.1	0.092	1444.2	0.071	218	124
150	-1.325	-1.328	0.654	0.541	34.018	7.07	307	95.0	27.369	1028.1	69.0	0.109	1444.1	0.039	185	148
175	-1.354	-1.358	0.644	0.512	34.026	7.28	316	93.8	27.377	1028.2	68.2	0.127	1444.3	0.022	175	173
200	-1.296	-1.301	0.722	0.571	34.044	6.57	286	95.5	27.389	1028.3	66.9	0.144	1445.0	0.029	117	198
225	-1.316	-1.321	0.721	0.552	34.052	6.81	296	96.2	27.396	1028.5	66.1	0.160	1445.4	0.026	121	222
250	-1.380	-1.386	0.677	0.489	34.063	6.76	294	96.5	27.407	1028.6	64.9	0.177	1445.5	0.023	150	247
275	-1.351	-1.357	0.726	0.519	34.076	6.73	292	96.6	27.417	1028.7	63.9	0.193	1446.0	0.036	145	272
300	-1.137	-1.145	0.960	0.734	34.106	6.30	274	96.4	27.434	1028.9	62.4	0.208	1447.5	0.038	129	297
325	-0.564	-0.575	1.555	1.310	34.161	5.24	228	95.6	27.456	1029.0	60.7	0.224	1450.7	0.034	136	321
350	-0.370	-0.382	1.772	1.509	34.235	5.13	223	96.6	27.507	1029.2	56.0	0.238	1452.1	0.037	154	346
375	0.060	0.046	2.226	1.944	34.327	4.74	206	96.5	27.561	1029.3	51.4	0.252	1454.6	0.013	100	371
400	0.128	0.112	2.315	2.014	34.361	4.73	206	97.2	27.584	1029.5	49.3	0.264	1455.4	0.013	33	395
425	0.362	0.345	2.571	2.251	34.413	4.58	199	97.3	27.614	1029.6	46.8	0.276	1456.9	0.021	49	420
450	0.453	0.434	2.682	2.344	34.447	4.54	197	97.4	27.636	1029.8	44.8	0.288	1457.8	0.021	48	445
475	0.584	0.563	2.835	2.477	34.490	4.51	196	97.6	27.663	1029.9	42.4	0.299	1458.9	0.041	32	469
500	0.642	0.620	2.913	2.537	34.508	4.48	195	97.6	27.674	1030.0	41.6	0.309	1459.6	0.059	26	494
530	0.767	0.742	3.062	2.663	34.543	4.43	192	97.6	27.694	1030.2	39.8	0.321	1460.7			524

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	052B	2009/01/23	05:19	-74.7372	-101.3975	530	10	533	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
80	-1.177	-1.179	33.982	27.334	5.95	258	33.979	5.89	256			13	79
162	-1.361	-1.365	34.022	27.373	7.22	314						11	160
207	-1.299	-1.304	34.050	27.394	6.69	291	34.046	6.74	293			9	204
258	-1.327	-1.333	34.068	27.409	6.75	293						7	255
294	-1.153	-1.161	34.106	27.434	6.33	275						5	291
393	0.170	0.154	34.366	27.587	4.75	207						3	389
530	0.742	0.718	34.536	27.691	4.43	193	34.529					1	524

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	052U	2009/01/23	05:38	-74.7375	-101.3971	530	10	533	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.267	-1.267	0.595	0.594	33.924	6.32	275	27.291	1027.3	77.2	0.001	1441.8	1
25	-1.305	-1.305	0.575	0.556	33.922	6.32	275	27.290	1027.4	77.1	0.019	1442.0	25
50	-1.215	-1.216	0.685	0.648	33.960	5.87	255	27.318	1027.6	74.4	0.038	1442.9	50
75	-1.188	-1.189	0.732	0.676	33.975	5.84	254	27.330	1027.7	73.2	0.057	1443.4	74
100	-1.076	-1.079	0.864	0.788	33.998	6.21	270	27.344	1027.8	71.7	0.075	1444.4	99
125	-1.175	-1.178	0.785	0.691	34.009	6.08	265	27.357	1028.0	70.4	0.092	1444.4	124
150	-1.323	-1.327	0.656	0.543	34.015	6.95	302	27.366	1028.1	69.3	0.110	1444.1	148
175	-1.357	-1.361	0.642	0.510	34.026	7.24	315	27.376	1028.2	68.2	0.127	1444.3	173
200	-1.268	-1.273	0.750	0.599	34.038	6.65	289	27.384	1028.3	67.4	0.144	1445.2	198
225	-1.313	-1.318	0.725	0.555	34.050	6.79	295	27.394	1028.5	66.3	0.161	1445.4	222
250	-1.364	-1.370	0.693	0.505	34.062	6.74	293	27.405	1028.6	65.1	0.177	1445.6	247
275	-1.377	-1.384	0.699	0.492	34.074	6.73	292	27.416	1028.7	63.9	0.193	1445.9	272
300	-1.132	-1.140	0.965	0.739	34.105	6.25	272	27.433	1028.9	62.4	0.209	1447.5	297
325	-0.642	-0.652	1.477	1.232	34.150	5.45	237	27.451	1029.0	61.1	0.225	1450.3	321
350	-0.405	-0.417	1.736	1.473	34.222	5.19	226	27.498	1029.2	56.8	0.239	1451.9	346
375	0.003	-0.011	2.168	1.886	34.302	4.79	208	27.543	1029.3	53.0	0.253	1454.3	371
400	0.141	0.125	2.328	2.027	34.360	4.76	207	27.583	1029.5	49.4	0.266	1455.5	395
425	0.363	0.345	2.571	2.251	34.410	4.57	199	27.611	1029.6	47.0	0.278	1456.9	420
450	0.463	0.444	2.692	2.353	34.445	4.56	198	27.634	1029.8	45.0	0.289	1457.8	445
475	0.585	0.564	2.836	2.478	34.488	4.50	196	27.661	1029.9	42.6	0.300	1458.9	469
500	0.640	0.618	2.911	2.534	34.504	4.49	195	27.671	1030.0	41.8	0.311	1459.6	494
530	0.767	0.742	3.062	2.663	34.543	4.43	192	27.694	1030.2	39.8	0.323	1460.7	524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Potential Temperature (°C)
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2.0
NBP0901 052
74 44.19 S 101 23.86 W
Pressure (dbar)
0
100
200
300
400
500
600
700
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900
1000
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1400
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26.8
27
27.2
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28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
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33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**053D**	2009/01/23	06:04	-74.7555	-101.3558	599	9	601	7	9.0	55	-2.4	981.3

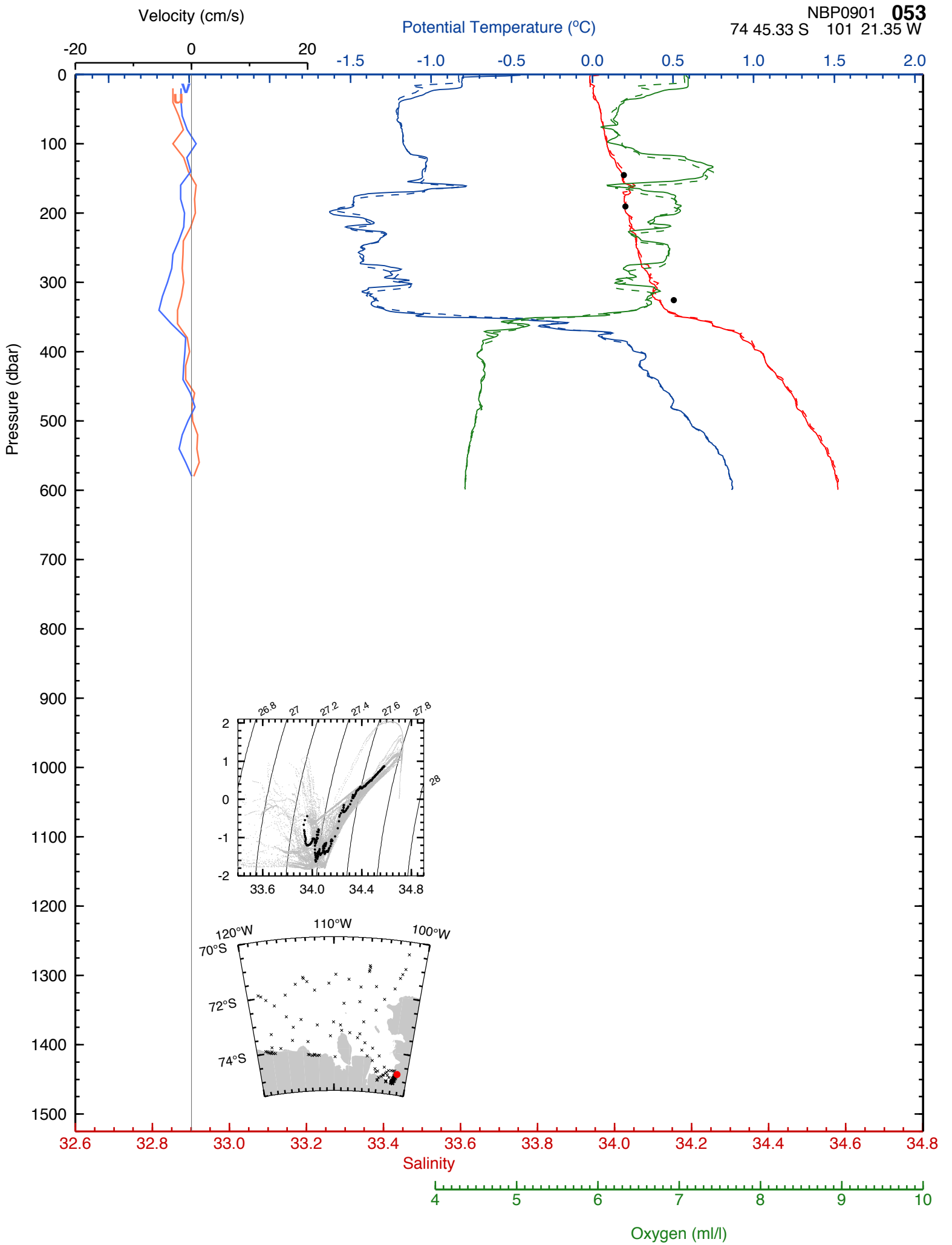
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.445	-0.445	1.419	1.418	33.960	7.09	308	92.4	27.288	1027.3	77.5	0.001	1445.7			1
25	-1.011	-1.011	0.870	0.851	33.945	6.76	294	92.7	27.299	1027.4	76.4	0.019	1443.4	0.037	241	25
50	-1.202	-1.203	0.698	0.661	33.962	6.25	272	94.5	27.320	1027.6	74.2	0.038	1443.0	0.032	237	50
75	-1.185	-1.187	0.734	0.678	33.971	6.07	264	95.3	27.326	1027.7	73.5	0.057	1443.4	0.019	241	74
100	-1.170	-1.173	0.769	0.693	33.981	6.19	269	95.9	27.334	1027.8	72.7	0.075	1443.9	0.032	282	99
125	-1.023	-1.027	0.936	0.842	34.006	7.19	312	92.7	27.349	1027.9	71.2	0.093	1445.1	0.013	242	124
150	-1.056	-1.060	0.923	0.810	34.023	7.19	313	91.2	27.364	1028.1	69.6	0.111	1445.3	0.012	216	148
175	-1.453	-1.457	0.545	0.413	34.025	6.95	302	95.6	27.379	1028.2	67.9	0.128	1443.9	0.020	162	173
200	-1.620	-1.625	0.397	0.246	34.030	6.98	303	96.9	27.388	1028.3	66.8	0.145	1443.5	0.015	151	198
225	-1.390	-1.396	0.647	0.478	34.056	6.46	281	96.9	27.402	1028.5	65.5	0.161	1445.0	0.015	188	222
250	-1.416	-1.422	0.641	0.453	34.061	6.87	299	96.6	27.407	1028.6	64.9	0.178	1445.3	0.029	210	247
275	-1.331	-1.338	0.746	0.539	34.087	6.39	278	96.9	27.425	1028.7	63.1	0.194	1446.2	0.037	205	272
300	-1.171	-1.179	0.926	0.700	34.108	6.22	270	96.7	27.437	1028.9	62.0	0.209	1447.4	0.042	199	297
325	-1.341	-1.349	0.775	0.531	34.117	6.60	287	97.2	27.450	1029.0	60.5	0.225	1447.0	0.053	199	321
350	-0.955	-0.965	1.184	0.921	34.185	5.49	239	97.2	27.492	1029.2	56.9	0.240	1449.3	0.055	207	346
375	0.084	0.069	2.250	1.968	34.326	4.77	207	96.4	27.558	1029.3	51.7	0.253	1454.7	0.026	215	371
400	0.283	0.267	2.471	2.170	34.376	4.54	197	96.6	27.588	1029.5	49.1	0.266	1456.1	0.011	200	395
425	0.329	0.311	2.537	2.217	34.407	4.60	200	97.2	27.611	1029.6	47.0	0.278	1456.8	0.016	218	420
450	0.440	0.421	2.670	2.331	34.446	4.57	199	97.4	27.636	1029.8	44.8	0.289	1457.8	0.015	190	445
475	0.517	0.497	2.767	2.410	34.474	4.55	198	97.6	27.654	1029.9	43.2	0.300	1458.5	0.005	64	469
500	0.626	0.604	2.896	2.520	34.504	4.49	195	97.7	27.672	1030.0	41.7	0.311	1459.5	0.006	116	494
550	0.832	0.806	3.143	2.729	34.563	4.39	191	97.8	27.707	1030.3	38.8	0.331	1461.3	0.022	152	543
599	0.891	0.862	3.240	2.789	34.579	4.37	190	97.7	27.716	1030.5	38.1	0.350	1462.4			592

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	053B	2009/01/23	06:19	-74.7555	-101.3556	599	9	601	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
14	-0.908	-0.908	33.932	27.285	6.78	295						13	14
145	-1.011	-1.015	34.030	27.368	7.19	313	34.024					11	144
190	-1.512	-1.517	34.035	27.389	6.75	293	34.029					9	188
244	-1.423	-1.429	34.061	27.407	6.82	297						7	241
326	-1.205	-1.214	34.133	27.459	6.47	281	34.154					5	322
399	0.333	0.317	34.392	27.598	4.54	197						3	394
599	0.891	0.862	34.579	27.716	4.37	190						1	591

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	053U	2009/01/23	06:40	-74.7555	-101.3559	599	9	601	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.831	-0.831	1.032	1.031	33.937	7.06	307	27.285	1027.3	77.8	0.001	1443.9	1
25	-1.090	-1.091	0.790	0.771	33.944	6.59	286	27.301	1027.4	76.1	0.019	1443.0	25
50	-1.209	-1.211	0.691	0.653	33.962	6.22	270	27.320	1027.6	74.2	0.038	1442.9	50
75	-1.181	-1.183	0.739	0.683	33.970	6.22	270	27.325	1027.7	73.6	0.057	1443.5	74
100	-1.165	-1.167	0.774	0.699	33.980	6.30	274	27.333	1027.8	72.8	0.075	1444.0	99
125	-1.018	-1.021	0.942	0.848	34.002	7.10	309	27.345	1027.9	71.5	0.093	1445.1	124
150	-1.039	-1.043	0.940	0.827	34.020	7.34	319	27.360	1028.1	70.0	0.111	1445.4	148
175	-1.290	-1.294	0.709	0.577	34.028	6.68	290	27.375	1028.2	68.3	0.128	1444.7	173
200	-1.511	-1.515	0.507	0.356	34.030	6.90	300	27.385	1028.3	67.2	0.145	1444.0	198
225	-1.465	-1.470	0.572	0.402	34.041	6.82	297	27.392	1028.5	66.4	0.161	1444.6	222
250	-1.429	-1.435	0.627	0.439	34.057	6.87	299	27.404	1028.6	65.1	0.178	1445.2	247
275	-1.410	-1.416	0.667	0.459	34.070	6.81	296	27.414	1028.7	64.1	0.194	1445.8	272
300	-1.188	-1.196	0.908	0.682	34.093	6.37	277	27.425	1028.9	63.1	0.210	1447.2	297
325	-1.329	-1.337	0.787	0.542	34.111	6.60	287	27.445	1029.0	61.0	0.225	1447.0	321
350	-0.640	-0.651	1.499	1.235	34.177	5.70	248	27.472	1029.1	59.0	0.240	1450.8	346
375	0.127	0.112	2.293	2.010	34.326	4.62	201	27.556	1029.3	51.9	0.254	1454.9	371
400	0.313	0.297	2.501	2.200	34.380	4.54	197	27.590	1029.5	48.9	0.267	1456.3	395
425	0.332	0.314	2.540	2.220	34.405	4.60	200	27.608	1029.6	47.2	0.279	1456.8	420
450	0.446	0.427	2.675	2.336	34.443	4.56	198	27.633	1029.8	45.0	0.290	1457.8	445
475	0.521	0.501	2.771	2.413	34.471	4.54	197	27.651	1029.9	43.5	0.301	1458.6	469
500	0.622	0.599	2.892	2.515	34.499	4.50	195	27.668	1030.0	42.1	0.312	1459.5	494
550	0.814	0.788	3.125	2.711	34.554	4.41	192	27.701	1030.3	39.4	0.332	1461.2	543
599	0.891	0.862	3.240	2.789	34.579	4.37	190	27.716	1030.5	38.1	0.351	1462.4	592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Potential Temperature (°C)
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2.0
NBP0901 053
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Pressure (dbar)
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100
200
300
400
500
600
700
800
900
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1100
1200
1300
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26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
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33.6
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34.0
34.2
34.4
34.6
34.8
Salinity
4
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8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**054D**	2009/01/23	07:05	-74.7660	-101.3162	654	10	656	8	7.7	54	-2.5	981.8

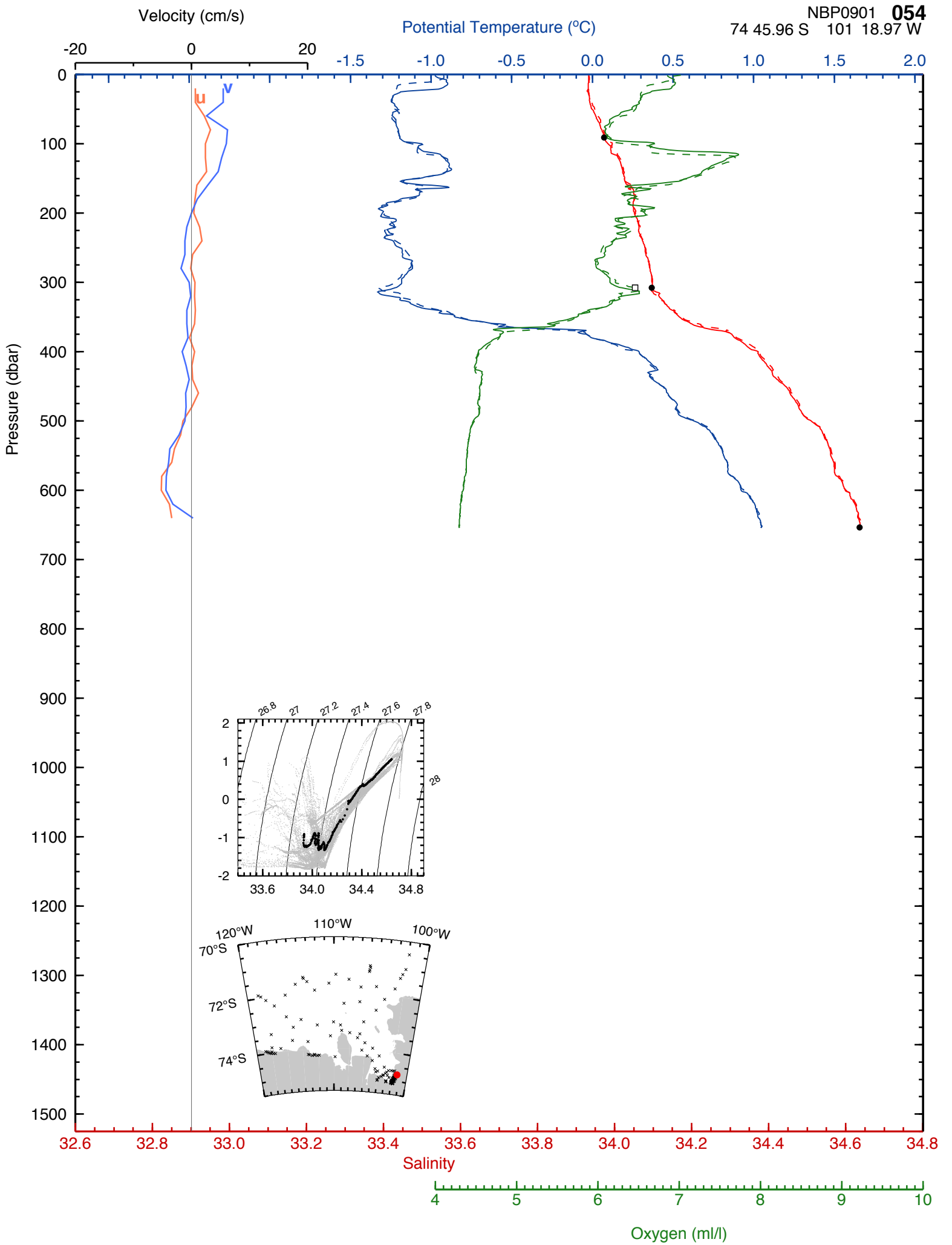
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.976	-0.976	0.886	0.885	33.933	6.86	298	93.1	27.288	1027.3	77.5	0.001	1443.2			1
25	-1.190	-1.190	0.690	0.671	33.931	6.65	289	93.7	27.294	1027.4	76.8	0.019	1442.6	0.055	7	25
50	-1.205	-1.206	0.695	0.657	33.949	6.42	279	94.4	27.309	1027.5	75.3	0.038	1442.9	0.045	23	50
75	-1.212	-1.214	0.707	0.651	33.967	6.08	265	95.5	27.324	1027.7	73.7	0.057	1443.3	0.059	32	74
100	-1.055	-1.058	0.885	0.809	33.994	6.69	291	95.6	27.340	1027.8	72.1	0.075	1444.5	0.065	22	99
125	-0.894	-0.898	1.066	0.972	34.017	7.54	328	89.1	27.353	1028.0	70.9	0.093	1445.7	0.056	26	124
150	-1.073	-1.077	0.907	0.794	34.023	7.08	308	89.8	27.364	1028.1	69.6	0.111	1445.3	0.043	25	148
175	-1.073	-1.078	0.927	0.795	34.054	6.45	280	95.5	27.389	1028.2	67.1	0.128	1445.7	0.018	26	173
200	-1.298	-1.303	0.721	0.570	34.055	6.58	286	96.2	27.398	1028.4	66.1	0.144	1445.0	0.005	83	198
225	-1.264	-1.270	0.774	0.605	34.065	6.35	276	96.7	27.405	1028.5	65.3	0.161	1445.6	0.017	120	222
250	-1.185	-1.192	0.872	0.684	34.080	6.09	265	97.3	27.415	1028.6	64.3	0.177	1446.4	0.017	139	247
275	-1.110	-1.117	0.968	0.761	34.091	5.97	260	97.3	27.421	1028.7	63.7	0.193	1447.2	0.015	178	272
300	-1.174	-1.182	0.923	0.697	34.099	6.15	267	97.4	27.430	1028.9	62.7	0.209	1447.3	0.009	134	297
325	-1.186	-1.195	0.931	0.686	34.120	6.25	272	97.3	27.447	1029.0	61.0	0.224	1447.7	0.005	104	321
350	-0.839	-0.850	1.299	1.036	34.171	5.73	249	97.1	27.476	1029.1	58.5	0.239	1449.8	0.010	142	346
375	-0.025	-0.039	2.140	1.858	34.310	4.80	209	96.6	27.551	1029.3	52.2	0.253	1454.2	0.008	179	371
400	0.304	0.288	2.492	2.191	34.375	4.53	197	96.8	27.586	1029.5	49.3	0.266	1456.2	0.015	173	395
425	0.420	0.402	2.629	2.309	34.411	4.49	195	96.9	27.608	1029.6	47.3	0.278	1457.2	0.009	174	420
450	0.456	0.437	2.686	2.347	34.450	4.55	198	97.4	27.638	1029.8	44.6	0.289	1457.8	0.007	148	445
475	0.545	0.525	2.796	2.438	34.480	4.52	197	97.6	27.657	1029.9	43.0	0.300	1458.7	0.013	150	469
500	0.652	0.630	2.923	2.546	34.512	4.46	194	97.7	27.677	1030.0	41.3	0.311	1459.6	0.016	216	494
550	0.840	0.814	3.151	2.737	34.565	4.39	191	97.8	27.708	1030.3	38.7	0.331	1461.4	0.048	219	543
600	0.951	0.922	3.302	2.850	34.599	4.34	189	97.8	27.728	1030.6	37.1	0.350	1462.7	0.068	230	593
650	1.080	1.047	3.471	2.981	34.641	4.29	186	97.8	27.754	1030.8	35.1	0.368	1464.2			642
654	1.078	1.045	3.472	2.979	34.639	4.29	187	97.7	27.752	1030.8	35.2	0.369	1464.2			646

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	054B	2009/01/23	07:23	-74.7658	-101.3167	654	10	656	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.030	-1.030	33.932	27.289	6.86	298						16	10
91	-1.186	-1.188	33.976	27.330	6.17	268	33.973					15	90
116	-1.036	-1.039	33.998	27.343	7.11	309						12	115
167	-1.077	-1.081	34.051	27.387	6.45	280						10	165
272	-1.138	-1.146	34.094	27.424	6.01	261						8	269
308	-1.271	-1.279	34.099	27.433	6.41	278	34.096	6.46	281			6	304
399	0.325	0.308	34.380	27.589	4.51	196						3	394
654	1.071	1.038	34.637	27.751	4.30	187	34.636					1	646

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	054U	2009/01/23	07:48	-74.7657	-101.3167	654	10	656	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.922	-0.922	0.940	0.939	33.933	7.02	305	27.286	1027.3	77.7	0.001	1443.4	1
25	-1.230	-1.231	0.650	0.631	33.933	6.54	284	27.296	1027.4	76.6	0.019	1442.4	25
50	-1.223	-1.225	0.676	0.638	33.941	6.46	281	27.303	1027.5	75.8	0.038	1442.8	50
75	-1.216	-1.217	0.704	0.647	33.963	6.15	267	27.321	1027.7	74.0	0.057	1443.3	74
100	-1.119	-1.121	0.821	0.745	33.983	6.33	275	27.333	1027.8	72.8	0.075	1444.2	99
125	-0.902	-0.905	1.058	0.964	34.014	7.64	332	27.350	1027.9	71.1	0.093	1445.7	124
150	-1.095	-1.099	0.885	0.772	34.027	7.12	310	27.368	1028.1	69.2	0.111	1445.2	148
175	-1.072	-1.077	0.928	0.796	34.051	6.33	275	27.387	1028.2	67.3	0.128	1445.7	173
200	-1.286	-1.292	0.732	0.582	34.052	6.53	284	27.395	1028.4	66.4	0.145	1445.1	198
225	-1.282	-1.287	0.756	0.587	34.062	6.38	278	27.404	1028.5	65.4	0.161	1445.5	222
250	-1.159	-1.165	0.899	0.711	34.079	6.06	263	27.413	1028.6	64.5	0.177	1446.6	247
275	-1.115	-1.123	0.962	0.755	34.090	5.99	261	27.420	1028.7	63.8	0.193	1447.2	272
300	-1.204	-1.212	0.893	0.667	34.097	6.21	270	27.429	1028.9	62.7	0.209	1447.2	297
325	-1.117	-1.126	1.000	0.755	34.124	6.20	269	27.448	1029.0	60.9	0.225	1448.0	321
350	-0.810	-0.821	1.328	1.065	34.169	5.73	249	27.473	1029.1	58.8	0.240	1450.0	346
375	-0.022	-0.036	2.142	1.860	34.304	4.80	208	27.546	1029.3	52.7	0.254	1454.2	371
400	0.295	0.279	2.482	2.181	34.373	4.53	197	27.585	1029.5	49.4	0.267	1456.2	395
425	0.407	0.389	2.615	2.295	34.404	4.49	195	27.604	1029.6	47.8	0.279	1457.1	420
450	0.453	0.434	2.682	2.344	34.444	4.56	198	27.633	1029.8	45.0	0.290	1457.8	445
475	0.540	0.520	2.790	2.433	34.474	4.53	197	27.653	1029.9	43.4	0.301	1458.7	469
500	0.667	0.644	2.937	2.561	34.511	4.48	195	27.675	1030.0	41.5	0.312	1459.7	494
550	0.840	0.814	3.151	2.737	34.562	4.39	191	27.705	1030.3	39.0	0.332	1461.4	543
600	0.969	0.940	3.320	2.869	34.601	4.34	189	27.729	1030.6	37.1	0.351	1462.8	593
650	1.078	1.045	3.469	2.979	34.638	4.30	187	27.751	1030.8	35.3	0.369	1464.2	642
654	1.078	1.045	3.472	2.979	34.639	4.29	187	27.752	1030.8	35.2	0.370	1464.2	646


NBP0901 054
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Velocity (cm/s)
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v
Potential Temperature (°C)
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-1.0
-0.5
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Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
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26.8
27
27.2
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27.6
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28
2
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-1
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33.6
34.0
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
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33.6
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34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**055D**	2009/01/23	08:14	-74.7740	-101.2951	676	9	677	7	3.1	96	-3.0	982.7

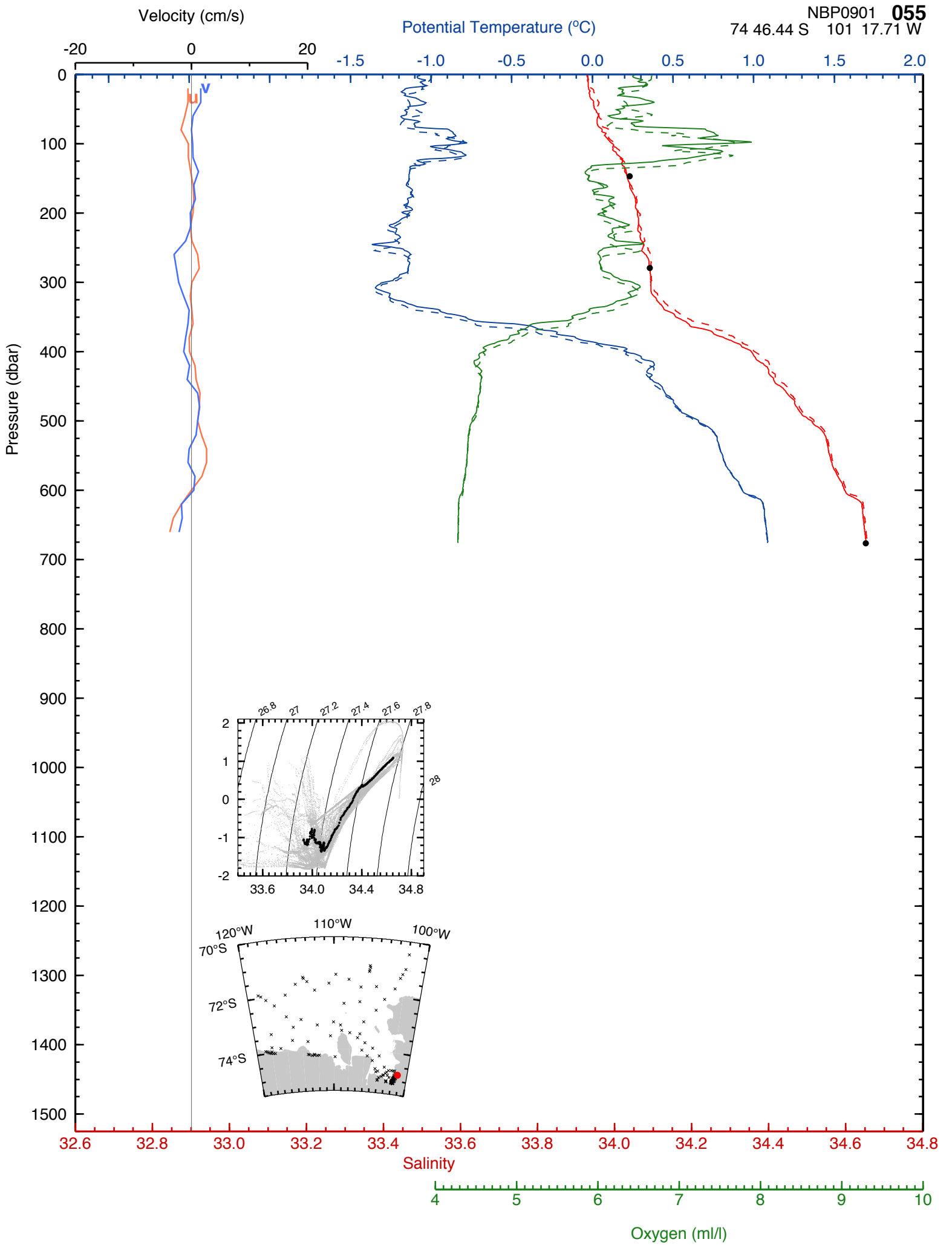
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.068	-1.068	0.793	0.792	33.928	6.45	280	93.9	27.287	1027.3	77.6	0.001	1442.7			1
25	-1.183	-1.184	0.697	0.679	33.946	6.30	274	94.1	27.306	1027.4	75.7	0.019	1442.6	0.017	339	25
50	-1.143	-1.144	0.758	0.720	33.957	6.26	272	94.6	27.313	1027.6	74.9	0.038	1443.2	0.014	314	50
75	-1.098	-1.100	0.822	0.765	33.969	6.46	281	94.7	27.321	1027.7	74.0	0.057	1443.8	0.016	274	74
100	-0.816	-0.819	1.124	1.048	33.997	7.44	323	88.2	27.334	1027.8	72.8	0.075	1445.6	0.006	291	99
125	-1.078	-1.082	0.882	0.788	34.025	6.73	293	90.8	27.366	1028.0	69.6	0.093	1444.8	0.007	311	124
150	-1.133	-1.137	0.847	0.734	34.036	5.88	256	96.7	27.377	1028.1	68.4	0.110	1445.0	0.009	223	148
175	-1.110	-1.114	0.890	0.759	34.057	6.10	265	96.7	27.393	1028.2	66.8	0.127	1445.5	0.007	32	173
200	-1.171	-1.176	0.849	0.698	34.065	6.03	262	96.5	27.402	1028.4	65.8	0.144	1445.7	0.004	113	198
225	-1.210	-1.216	0.829	0.659	34.069	6.17	268	96.8	27.407	1028.5	65.2	0.160	1445.9	0.003	235	222
250	-1.209	-1.215	0.849	0.661	34.086	6.10	265	97.2	27.420	1028.6	63.8	0.176	1446.3	0.018	169	247
275	-1.130	-1.137	0.948	0.740	34.095	6.03	262	97.3	27.425	1028.7	63.3	0.192	1447.1	0.030	156	272
300	-1.287	-1.294	0.810	0.584	34.094	6.43	280	97.4	27.429	1028.9	62.7	0.208	1446.8	0.023	173	297
325	-1.218	-1.227	0.899	0.654	34.121	6.31	274	97.3	27.449	1029.0	60.7	0.223	1447.6	0.012	187	321
350	-0.774	-0.784	1.365	1.102	34.184	5.68	247	97.2	27.484	1029.2	57.8	0.238	1450.2	0.005	162	346
375	-0.207	-0.221	1.957	1.674	34.289	5.00	217	97.1	27.543	1029.3	52.8	0.252	1453.3	0.009	179	371
400	0.220	0.204	2.407	2.106	34.364	4.59	200	96.9	27.582	1029.5	49.6	0.265	1455.8	0.013	195	395
425	0.364	0.346	2.572	2.252	34.403	4.55	198	96.8	27.605	1029.6	47.6	0.277	1456.9	0.007	117	420
450	0.448	0.429	2.678	2.339	34.447	4.55	198	97.4	27.636	1029.8	44.8	0.288	1457.8	0.013	113	445
475	0.528	0.507	2.778	2.420	34.475	4.53	197	97.5	27.654	1029.9	43.2	0.299	1458.6	0.019	49	469
500	0.680	0.657	2.951	2.574	34.517	4.45	194	97.7	27.679	1030.0	41.1	0.310	1459.8	0.017	44	494
550	0.833	0.807	3.145	2.731	34.563	4.39	191	97.8	27.707	1030.3	38.8	0.330	1461.3	0.026	99	543
600	0.958	0.929	3.309	2.858	34.601	4.34	188	97.8	27.730	1030.6	37.0	0.348	1462.8	0.009	26	593
650	1.107	1.075	3.499	3.010	34.651	4.28	186	97.8	27.760	1030.8	34.5	0.366	1464.3	0.036	242	642
676	1.119	1.084	3.530	3.021	34.654	4.28	186	97.7	27.762	1030.9	34.5	0.375	1464.8			668

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	055B	2009/01/23	08:31	-74.7740	-101.2955	676	9	677	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
25	-1.136	-1.137	33.943	27.301	6.32	275						13	24
84	-1.001	-1.003	33.973	27.321	7.05	307						11	83
147	-1.133	-1.137	34.038	27.378	5.90	256	34.039					9	145
230	-1.215	-1.221	34.071	27.408	6.20	269						7	228
279	-1.133	-1.141	34.093	27.423	6.03	262	34.092					5	276
449	0.419	0.401	34.434	27.627	4.55	198						3	444
676	1.119	1.085	34.654	27.761	4.28	186	34.652					1	668

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	055U	2009/01/23	08:52	-74.7740	-101.2955	676	9	677	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.995	-0.995	0.867	0.866	33.930	6.66	290	27.286	1027.3	77.7	0.001	1443.1	1
25	-1.094	-1.095	0.786	0.767	33.935	6.37	277	27.294	1027.4	76.8	0.019	1443.0	25
50	-1.116	-1.117	0.783	0.746	33.949	6.36	277	27.306	1027.5	75.6	0.038	1443.3	50
75	-1.181	-1.183	0.738	0.682	33.958	6.12	266	27.315	1027.7	74.6	0.057	1443.5	74
100	-0.825	-0.828	1.115	1.040	33.995	7.68	334	27.332	1027.8	72.9	0.076	1445.6	99
125	-0.967	-0.970	0.994	0.899	34.021	7.21	313	27.359	1028.0	70.2	0.094	1445.4	124
150	-1.132	-1.136	0.848	0.735	34.033	5.88	256	27.375	1028.1	68.6	0.111	1445.0	148
175	-1.112	-1.117	0.887	0.755	34.051	5.97	259	27.388	1028.2	67.2	0.128	1445.5	173
200	-1.133	-1.138	0.886	0.736	34.059	6.06	263	27.396	1028.4	66.3	0.145	1445.8	198
225	-1.260	-1.265	0.778	0.609	34.060	6.42	279	27.401	1028.5	65.7	0.161	1445.7	222
250	-1.264	-1.270	0.793	0.605	34.073	6.28	273	27.412	1028.6	64.5	0.177	1446.0	247
275	-1.135	-1.142	0.942	0.735	34.090	6.03	262	27.421	1028.7	63.6	0.193	1447.1	272
300	-1.240	-1.248	0.857	0.631	34.094	6.25	272	27.428	1028.9	62.8	0.209	1447.0	297
325	-1.245	-1.254	0.871	0.626	34.109	6.38	277	27.441	1029.0	61.5	0.225	1447.4	321
350	-0.898	-0.908	1.240	0.976	34.160	5.88	255	27.469	1029.1	59.1	0.240	1449.5	346
375	-0.302	-0.315	1.860	1.578	34.259	5.11	222	27.524	1029.3	54.5	0.254	1452.9	371
400	0.229	0.212	2.415	2.114	34.355	4.60	200	27.574	1029.5	50.3	0.267	1455.8	395
425	0.399	0.382	2.607	2.287	34.399	4.48	195	27.600	1029.6	48.1	0.279	1457.1	420
450	0.413	0.394	2.642	2.303	34.431	4.56	198	27.625	1029.8	45.7	0.291	1457.6	445
475	0.524	0.503	2.773	2.416	34.467	4.52	197	27.648	1029.9	43.8	0.302	1458.6	469
500	0.673	0.650	2.943	2.567	34.511	4.47	194	27.675	1030.0	41.5	0.313	1459.7	494
550	0.831	0.805	3.142	2.728	34.559	4.39	191	27.704	1030.3	39.1	0.333	1461.3	543
600	0.958	0.929	3.309	2.857	34.597	4.34	189	27.727	1030.5	37.3	0.352	1462.8	593
650	1.105	1.073	3.497	3.007	34.648	4.28	186	27.757	1030.8	34.8	0.370	1464.3	642
676	1.119	1.084	3.530	3.021	34.654	4.28	186	27.762	1030.9	34.5	0.379	1464.8	668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-0.5
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1.5
2.0
NBP0901 055
74 46.44 S 101 17.71 W
Pressure (dbar)
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300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
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5
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7
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**056D**	2009/01/24	01:04	-75.0192	-103.9512	634	5	632	4	10.2	111	-2.0	983.7

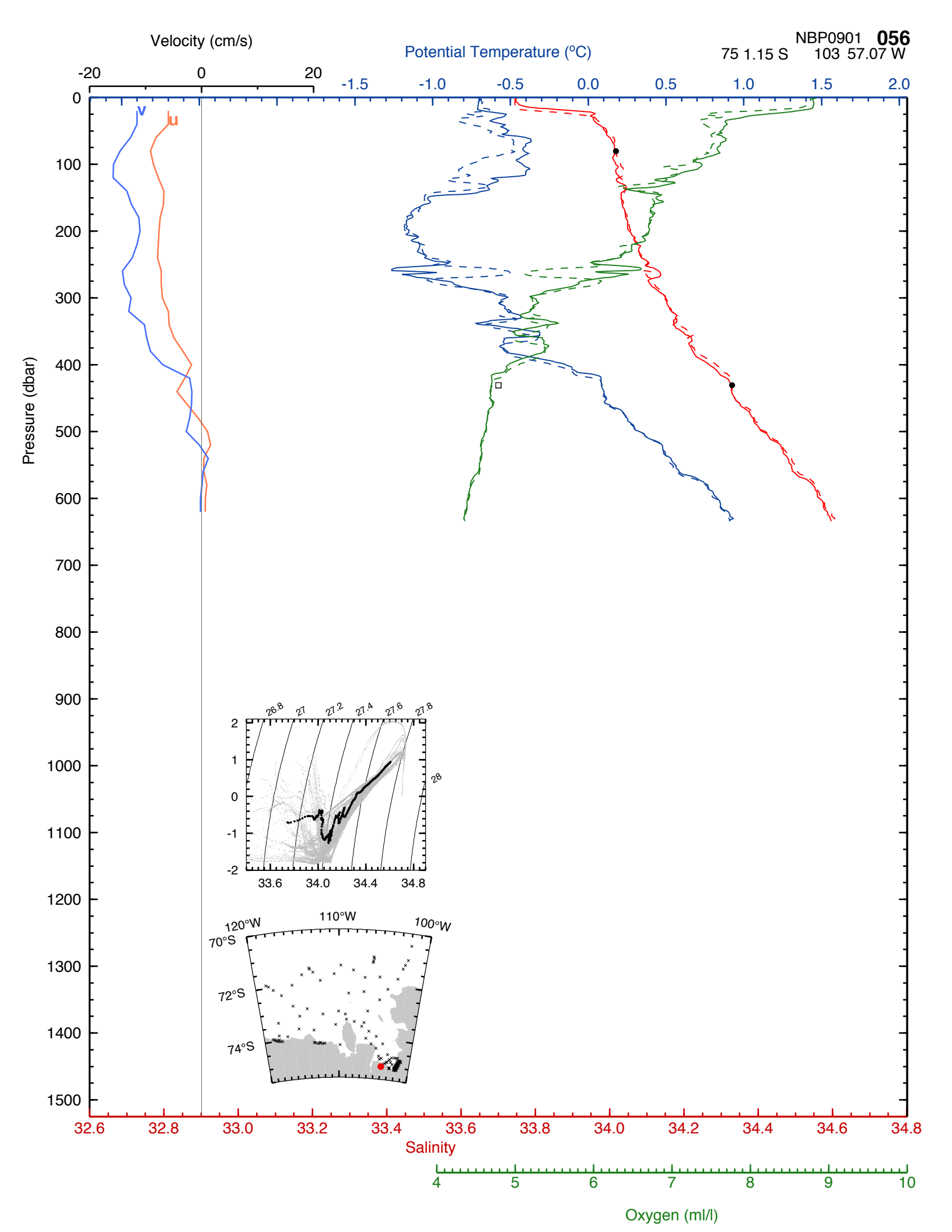
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.706	-0.706	1.145	1.144	33.745	8.80	383	84.3	27.125	1027.1	92.9	0.001	1444.2			1
25	-0.528	-0.528	1.351	1.332	33.912	8.18	356	82.7	27.253	1027.4	80.8	0.023	1445.6	0.129	207	25
50	-0.515	-0.516	1.387	1.350	33.992	7.62	331	85.8	27.317	1027.6	74.6	0.042	1446.2	0.139	210	50
75	-0.413	-0.415	1.510	1.453	34.013	7.58	330	84.6	27.329	1027.7	73.4	0.060	1447.1	0.165	212	74
100	-0.419	-0.422	1.523	1.447	34.029	7.38	321	85.4	27.343	1027.8	72.0	0.078	1447.5	0.179	209	99
125	-0.575	-0.579	1.386	1.292	34.035	6.85	298	89.8	27.355	1028.0	70.8	0.096	1447.2	0.171	206	124
150	-1.028	-1.032	0.951	0.838	34.030	6.79	295	93.5	27.369	1028.1	69.2	0.114	1445.5	0.146	207	148
175	-1.133	-1.137	0.866	0.735	34.045	6.76	294	94.9	27.384	1028.2	67.6	0.131	1445.4	0.137	212	173
200	-1.149	-1.155	0.869	0.719	34.056	6.71	292	94.9	27.394	1028.4	66.5	0.148	1445.8	0.134	214	198
225	-1.082	-1.088	0.957	0.788	34.076	6.48	282	95.0	27.407	1028.5	65.2	0.164	1446.5	0.139	214	222
250	-0.927	-0.934	1.133	0.944	34.102	6.10	265	95.5	27.424	1028.6	63.7	0.180	1447.7	0.151	211	247
275	-0.898	-0.906	1.181	0.974	34.118	5.84	254	95.5	27.435	1028.8	62.5	0.196	1448.2	0.157	207	272
300	-0.518	-0.528	1.581	1.355	34.150	5.23	227	95.6	27.445	1028.9	61.8	0.212	1450.5	0.146	209	297
325	-0.438	-0.449	1.682	1.437	34.178	5.07	221	95.8	27.464	1029.0	60.1	0.227	1451.3	0.141	205	321
350	-0.328	-0.340	1.813	1.549	34.216	4.97	216	95.9	27.490	1029.2	57.7	0.242	1452.3	0.115	209	346
375	-0.534	-0.546	1.626	1.344	34.227	5.40	235	96.9	27.508	1029.3	55.7	0.256	1451.7	0.103	203	371
400	-0.130	-0.145	2.052	1.751	34.287	4.92	214	96.6	27.538	1029.4	53.3	0.269	1454.1	0.077	196	395
425	0.099	0.082	2.302	1.982	34.327	4.70	204	96.6	27.559	1029.6	51.6	0.282	1455.6	0.037	235	420
450	0.132	0.115	2.356	2.017	34.337	4.67	203	96.7	27.565	1029.7	51.1	0.295	1456.2	0.043	245	445
475	0.254	0.234	2.499	2.141	34.384	4.65	202	97.0	27.596	1029.8	48.3	0.308	1457.2	0.027	216	469
500	0.351	0.330	2.616	2.240	34.419	4.61	201	97.2	27.619	1030.0	46.3	0.320	1458.1	0.027	169	494
550	0.585	0.560	2.893	2.479	34.498	4.54	197	97.6	27.670	1030.3	41.9	0.341	1460.1	0.012	24	543
600	0.858	0.829	3.207	2.755	34.572	4.39	191	97.5	27.713	1030.5	38.4	0.361	1462.3	0.008	98	593
634	0.940	0.909	3.317	2.839	34.597	4.36	189	97.5	27.727	1030.7	37.2	0.374	1463.2			626

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	056B	2009/01/24	01:26	-75.0197	-103.9515	431	5	632	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
9	-0.678	-0.679	33.755	27.132	8.74	380						12	9
80	-0.440	-0.443	34.016	27.333	7.53	327	34.017					9	79
320	-0.494	-0.504	34.173	27.463	5.18	225						5	316
431	0.102	0.085	34.327	27.558	4.69	204	34.329	4.79	208			4,3	426

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	056U	2009/01/24	01:47	-75.0194	-103.9514	431	5	632	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.692	-0.692	1.159	1.158	33.748	8.84	384	27.127	1027.1	92.7	0.001	1444.3	1
25	-0.771	-0.772	1.110	1.091	33.959	7.43	323	27.301	1027.4	76.2	0.022	1444.6	25
50	-0.625	-0.626	1.277	1.239	33.988	7.53	327	27.318	1027.6	74.5	0.041	1445.7	50
75	-0.488	-0.490	1.435	1.378	34.013	7.50	326	27.333	1027.7	73.0	0.059	1446.8	74
100	-0.757	-0.760	1.184	1.109	34.016	7.22	314	27.347	1027.8	71.6	0.077	1445.9	99
125	-0.882	-0.885	1.078	0.984	34.020	6.91	300	27.354	1028.0	70.7	0.095	1445.8	124
150	-1.050	-1.054	0.930	0.817	34.031	6.75	293	27.370	1028.1	69.0	0.113	1445.4	148
175	-1.118	-1.122	0.882	0.750	34.042	6.77	294	27.382	1028.2	67.8	0.130	1445.5	173
200	-1.161	-1.166	0.858	0.707	34.053	6.70	291	27.392	1028.4	66.7	0.147	1445.7	198
225	-1.062	-1.068	0.977	0.808	34.079	6.37	277	27.410	1028.5	65.0	0.163	1446.6	222
250	-0.982	-0.989	1.077	0.888	34.098	6.04	262	27.422	1028.6	63.8	0.179	1447.4	247
275	-1.011	-1.019	1.067	0.860	34.105	6.10	265	27.429	1028.7	63.0	0.195	1447.7	272
300	-0.525	-0.535	1.574	1.348	34.151	5.21	226	27.446	1028.9	61.7	0.211	1450.5	297
325	-0.522	-0.532	1.598	1.353	34.179	5.24	228	27.469	1029.0	59.5	0.226	1450.9	321
350	-0.473	-0.485	1.667	1.403	34.194	5.27	229	27.479	1029.1	58.6	0.241	1451.6	346
375	-0.534	-0.546	1.626	1.344	34.220	5.37	234	27.503	1029.3	56.2	0.255	1451.7	371
400	-0.226	-0.240	1.956	1.655	34.269	5.05	219	27.528	1029.4	54.2	0.269	1453.6	395
425	0.099	0.082	2.302	1.982	34.323	4.69	204	27.555	1029.6	51.9	0.282	1455.6	420
450	0.134	0.117	2.357	2.019	34.337	4.68	203	27.565	1029.7	51.1	0.295	1456.2	445
475	0.252	0.233	2.496	2.139	34.380	4.65	202	27.593	1029.8	48.6	0.307	1457.2	469
500	0.346	0.325	2.612	2.235	34.412	4.63	201	27.614	1030.0	46.8	0.319	1458.1	494
550	0.567	0.542	2.874	2.460	34.489	4.56	198	27.663	1030.3	42.5	0.341	1460.0	543
600	0.845	0.816	3.194	2.742	34.565	4.41	192	27.708	1030.5	38.8	0.362	1462.2	593
634	0.940	0.909	3.317	2.839	34.597	4.36	189	27.727	1030.7	37.2	0.375	1463.2	626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NBP0901 056
75 1.15 S
103 57.07 W
Pressure (dbar)
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120°W
110°W
100°W
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**057D**	2009/01/24	02:23	-75.0515	-103.9700	473	8	476	4	12.2	113	-2.3	983.5

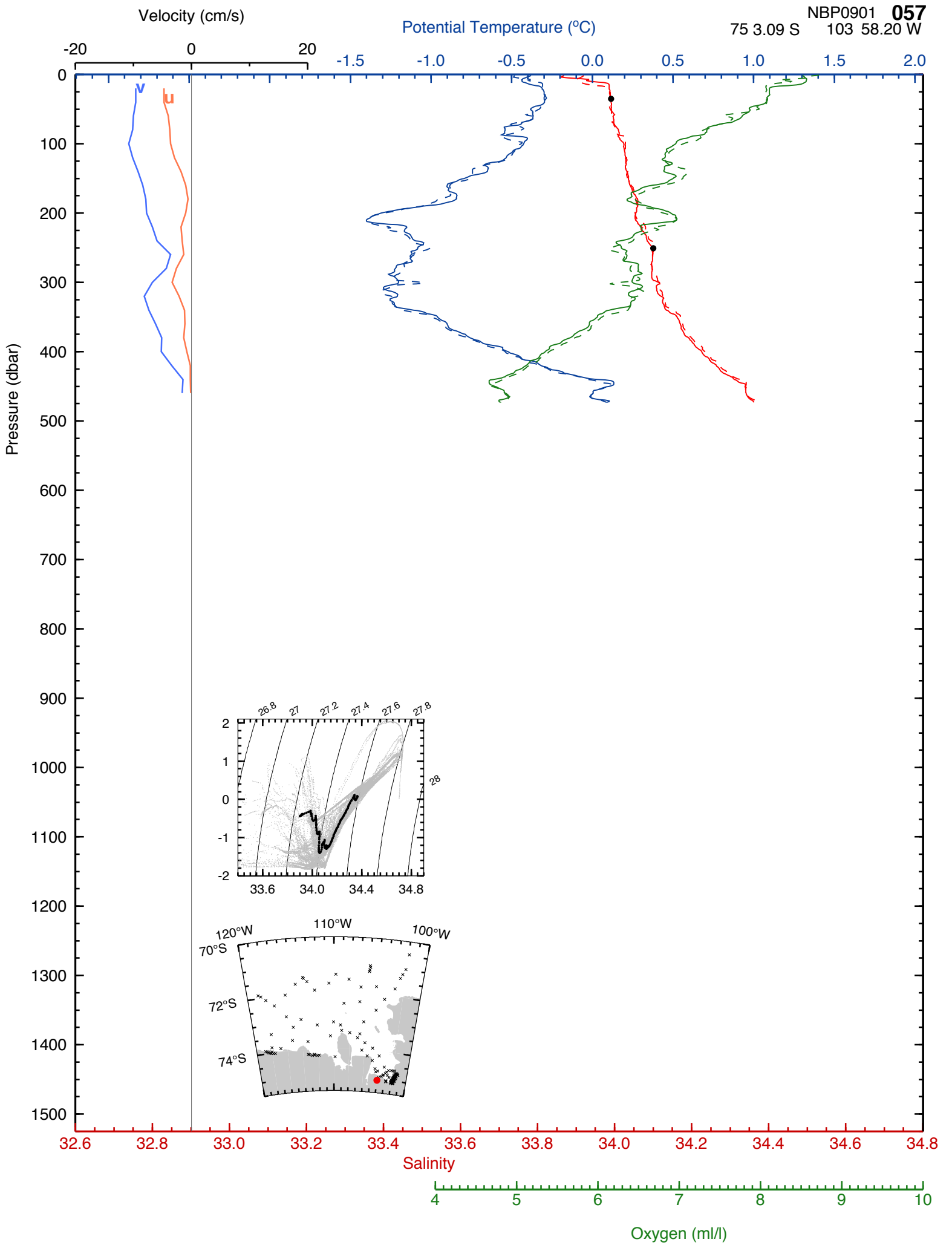
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.382	-0.382	1.479	1.478	33.919	8.52	370	82.3	27.252	1027.3	80.9	0.001	1445.9			1
25	-0.299	-0.300	1.584	1.565	33.987	8.11	352	81.1	27.303	1027.4	76.0	0.020	1446.8	0.107	206	25
50	-0.383	-0.385	1.519	1.481	33.989	7.87	342	82.5	27.308	1027.5	75.4	0.039	1446.8	0.107	204	50
75	-0.524	-0.526	1.398	1.341	34.000	7.39	321	85.8	27.323	1027.7	73.9	0.058	1446.6	0.108	201	74
100	-0.424	-0.427	1.518	1.443	34.028	6.96	302	87.5	27.342	1027.8	72.1	0.076	1447.5	0.114	198	99
125	-0.564	-0.568	1.397	1.303	34.031	6.84	297	89.3	27.351	1027.9	71.2	0.094	1447.3	0.103	195	124
150	-0.793	-0.797	1.187	1.074	34.033	6.92	301	90.5	27.362	1028.1	69.9	0.111	1446.6	0.090	189	148
175	-0.836	-0.841	1.164	1.033	34.056	6.41	279	92.7	27.382	1028.2	67.9	0.128	1446.8	0.081	185	173
200	-1.304	-1.309	0.715	0.564	34.053	6.90	300	94.1	27.397	1028.4	66.2	0.145	1445.0	0.078	187	198
225	-1.159	-1.165	0.880	0.711	34.081	6.54	284	95.5	27.414	1028.5	64.5	0.161	1446.2	0.068	195	222
250	-1.075	-1.082	0.984	0.796	34.100	6.29	273	95.6	27.427	1028.6	63.2	0.177	1447.0	0.053	197	247
275	-1.201	-1.208	0.877	0.670	34.096	6.50	283	95.8	27.428	1028.7	63.0	0.193	1446.8	0.045	207	272
300	-1.194	-1.202	0.903	0.678	34.113	6.42	279	96.0	27.442	1028.9	61.5	0.209	1447.2	0.071	207	297
325	-1.247	-1.255	0.870	0.625	34.126	6.45	280	96.6	27.454	1029.0	60.2	0.224	1447.4	0.083	194	321
350	-0.949	-0.959	1.189	0.926	34.170	5.99	260	97.0	27.479	1029.2	58.0	0.239	1449.3	0.071	190	346
375	-0.779	-0.790	1.380	1.098	34.194	5.71	248	97.0	27.492	1029.3	57.0	0.253	1450.5	0.058	192	371
400	-0.510	-0.524	1.669	1.368	34.234	5.35	233	96.9	27.513	1029.4	55.2	0.267	1452.3	0.053	190	395
425	-0.246	-0.261	1.955	1.635	34.280	5.05	219	97.0	27.538	1029.6	53.1	0.281	1454.0	0.034	183	420
450	0.120	0.102	2.343	2.004	34.341	4.74	206	96.8	27.569	1029.7	50.7	0.294	1456.1	0.015	187	445
473	0.105	0.087	2.347	1.991	34.362	4.80	209	97.2	27.587	1029.8	49.0	0.305	1456.5			467

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	057B	2009/01/24	02:36	-75.0508	-103.9696	446	8	476	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
35	-0.288	-0.289	33.992	27.306	8.07	351	33.991					9	35
212	-1.340	-1.345	34.060	27.404	6.85	298						7	210
251	-0.920	-0.927	34.102	27.423	6.03	262	34.100					5	248
446	0.105	0.088	34.342	27.571	4.72	205						3	441

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	057U	2009/01/24	02:53	-75.0506	-103.9694	446	8	476	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.483	-0.483	1.375	1.374	33.868	8.72	379	27.215	1027.2	84.3	0.001	1445.4	1
25	-0.293	-0.294	1.590	1.571	33.988	8.07	351	27.304	1027.4	75.9	0.020	1446.8	25
50	-0.330	-0.332	1.572	1.534	33.992	7.98	347	27.308	1027.5	75.4	0.039	1447.1	50
75	-0.451	-0.454	1.470	1.414	34.003	7.42	323	27.323	1027.7	74.0	0.057	1446.9	74
100	-0.438	-0.441	1.504	1.429	34.024	7.05	307	27.339	1027.8	72.4	0.076	1447.4	99
125	-0.557	-0.561	1.403	1.309	34.029	6.83	297	27.349	1027.9	71.4	0.094	1447.3	124
150	-0.751	-0.755	1.229	1.116	34.036	7.04	306	27.363	1028.1	69.9	0.111	1446.8	148
175	-0.876	-0.881	1.124	0.992	34.054	6.46	281	27.382	1028.2	67.9	0.128	1446.6	173
200	-1.290	-1.295	0.728	0.578	34.055	6.80	296	27.398	1028.4	66.1	0.145	1445.1	198
225	-1.249	-1.255	0.789	0.620	34.071	6.71	292	27.410	1028.5	64.9	0.161	1445.7	222
250	-1.006	-1.013	1.052	0.864	34.099	6.17	268	27.424	1028.6	63.6	0.178	1447.3	247
275	-1.161	-1.168	0.917	0.710	34.096	6.42	279	27.427	1028.7	63.1	0.193	1447.0	272
300	-1.049	-1.057	1.049	0.823	34.116	6.27	273	27.439	1028.9	61.9	0.209	1447.9	297
325	-1.231	-1.240	0.886	0.641	34.125	6.42	279	27.453	1029.0	60.3	0.224	1447.5	321
350	-0.988	-0.998	1.150	0.886	34.162	6.05	263	27.474	1029.1	58.5	0.239	1449.1	346
375	-0.827	-0.839	1.331	1.048	34.181	5.81	253	27.484	1029.3	57.7	0.254	1450.3	371
400	-0.529	-0.542	1.650	1.349	34.226	5.40	235	27.507	1029.4	55.7	0.268	1452.2	395
425	-0.259	-0.274	1.942	1.622	34.272	5.10	222	27.532	1029.6	53.6	0.282	1453.9	420
450	0.120	0.102	2.343	2.004	34.339	4.69	204	27.567	1029.7	50.8	0.295	1456.1	445
473	0.105	0.087	2.347	1.991	34.362	4.80	209	27.587	1029.8	49.0	0.306	1456.5	467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NBP0901 057
75 3.09 S
103 58.20 W
Pressure (dbar)
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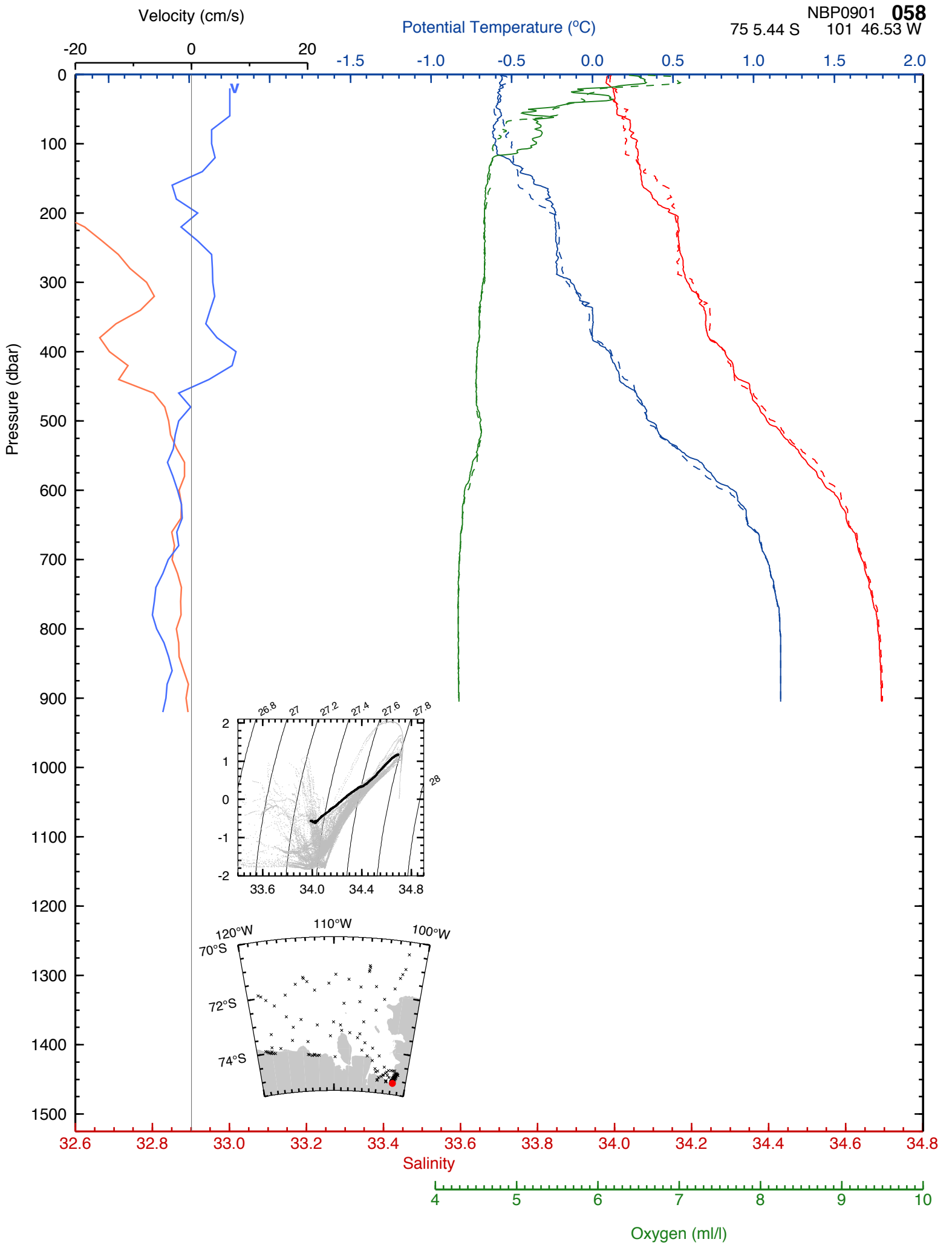
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**058D**	2009/01/24	21:03	-75.0907	-101.7755	905	44	938		5.8	123	-3.7	981.4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.564	-0.564	1.302	1.301	33.992	6.38	277	90.2	27.319	1027.3	74.6	0.001	1445.2			1
25	-0.581	-0.582	1.303	1.284	34.005	5.67	246	91.9	27.330	1027.5	73.4	0.019	1445.5	0.231	287	25
50	-0.577	-0.578	1.328	1.290	34.030	5.14	224	93.5	27.350	1027.6	71.4	0.037	1446.0	0.231	287	50
75	-0.612	-0.614	1.311	1.254	34.023	5.30	230	93.6	27.346	1027.7	71.8	0.055	1446.2	0.270	280	74
100	-0.602	-0.605	1.340	1.265	34.028	5.24	228	93.7	27.350	1027.8	71.3	0.073	1446.7	0.323	276	99
125	-0.503	-0.506	1.460	1.366	34.057	4.70	204	94.4	27.369	1028.0	69.5	0.090	1447.6	0.352	276	124
150	-0.366	-0.371	1.618	1.505	34.107	4.65	202	94.6	27.403	1028.1	66.2	0.107	1448.7	0.370	269	148
175	-0.264	-0.270	1.741	1.609	34.145	4.61	200	94.7	27.429	1028.3	63.8	0.124	1449.6	0.309	265	173
200	-0.222	-0.229	1.803	1.652	34.160	4.61	200	94.7	27.439	1028.4	62.8	0.139	1450.2	0.239	272	198
225	-0.218	-0.226	1.825	1.656	34.163	4.61	200	94.8	27.442	1028.5	62.5	0.155	1450.7	0.181	266	222
250	-0.209	-0.218	1.854	1.665	34.166	4.61	200	94.8	27.443	1028.6	62.3	0.171	1451.1	0.146	278	247
275	-0.210	-0.220	1.871	1.664	34.165	4.60	200	94.8	27.443	1028.8	62.3	0.186	1451.5	0.120	287	272
300	-0.122	-0.133	1.980	1.754	34.202	4.59	199	94.9	27.469	1028.9	59.9	0.202	1452.4	0.090	295	297
325	-0.067	-0.079	2.055	1.811	34.218	4.56	198	94.9	27.479	1029.0	59.0	0.217	1453.1	0.076	301	321
350	0.016	0.003	2.159	1.896	34.248	4.54	197	94.9	27.499	1029.2	57.1	0.231	1453.9	0.105	287	346
375	0.012	-0.002	2.174	1.891	34.247	4.54	197	95.0	27.498	1029.3	57.2	0.245	1454.3	0.149	283	371
400	0.119	0.103	2.302	2.000	34.286	4.52	196	94.8	27.525	1029.4	54.8	0.259	1455.2	0.162	296	395
425	0.166	0.149	2.369	2.049	34.304	4.51	196	94.9	27.536	1029.6	53.8	0.273	1455.9	0.130	303	420
450	0.230	0.212	2.453	2.114	34.334	4.50	196	94.8	27.557	1029.7	51.9	0.286	1456.6	0.115	276	445
475	0.329	0.309	2.573	2.215	34.376	4.50	196	95.7	27.586	1029.8	49.3	0.299	1457.6	0.058	259	469
500	0.373	0.352	2.638	2.262	34.413	4.56	198	96.6	27.613	1030.0	46.9	0.311	1458.2	0.045	249	494
550	0.610	0.585	2.918	2.504	34.501	4.51	196	97.6	27.670	1030.3	41.9	0.333	1460.2	0.041	215	543
600	0.904	0.875	3.254	2.802	34.582	4.36	189	97.5	27.717	1030.5	38.0	0.353	1462.5	0.033	214	593
650	0.994	0.962	3.383	2.893	34.608	4.33	188	97.5	27.733	1030.8	36.8	0.372	1463.8	0.026	229	642
700	1.118	1.082	3.547	3.020	34.648	4.29	187	97.7	27.757	1031.0	35.0	0.390	1465.2	0.045	225	691
750	1.174	1.135	3.642	3.077	34.669	4.28	186	97.9	27.771	1031.3	33.9	0.407	1466.3	0.063	196	741
800	1.203	1.162	3.710	3.108	34.687	4.28	186	97.8	27.783	1031.5	33.0	0.423	1467.3	0.067	199	790
850	1.212	1.167	3.757	3.117	34.693	4.28	186	97.8	27.787	1031.8	32.7	0.440	1468.2	0.044	208	839
900	1.215	1.167	3.798	3.120	34.695	4.29	186	97.8	27.789	1032.0	32.7	0.456	1469.0	0.043	189	888
905	1.216	1.167	3.802	3.120	34.694	4.29	186	97.8	27.788	1032.0	32.8	0.458	1469.1			893

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	058U	2009/01/24	21:53	-75.0904	-101.7750	905	44	938	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.574	-0.574	1.291	1.291	33.989	6.62	288	27.317	1027.3	74.8	0.001	1445.1	1
25	-0.577	-0.578	1.307	1.288	33.997	5.96	259	27.324	1027.4	74.0	0.019	1445.5	25
50	-0.609	-0.610	1.294	1.257	34.007	5.45	237	27.333	1027.6	73.0	0.037	1445.8	50
75	-0.544	-0.546	1.380	1.323	34.041	4.83	210	27.358	1027.7	70.6	0.055	1446.5	74
100	-0.497	-0.501	1.446	1.371	34.056	4.72	205	27.368	1027.8	69.6	0.073	1447.2	99
125	-0.487	-0.491	1.476	1.382	34.060	4.70	204	27.371	1028.0	69.3	0.090	1447.7	124
150	-0.456	-0.461	1.526	1.413	34.069	4.67	203	27.377	1028.1	68.7	0.107	1448.2	148
175	-0.380	-0.386	1.622	1.491	34.097	4.64	202	27.396	1028.2	66.8	0.124	1449.0	173
200	-0.250	-0.257	1.774	1.624	34.145	4.61	201	27.429	1028.4	63.8	0.141	1450.1	198
225	-0.198	-0.205	1.846	1.677	34.167	4.60	200	27.444	1028.5	62.3	0.156	1450.8	222
250	-0.200	-0.209	1.863	1.675	34.169	4.61	200	27.446	1028.6	62.1	0.172	1451.2	247
275	-0.179	-0.189	1.903	1.696	34.178	4.61	200	27.452	1028.8	61.5	0.187	1451.7	272
300	-0.148	-0.159	1.954	1.728	34.190	4.60	200	27.460	1028.9	60.8	0.203	1452.2	297
325	-0.043	-0.055	2.079	1.835	34.223	4.56	198	27.482	1029.0	58.7	0.218	1453.2	321
350	-0.006	-0.019	2.136	1.873	34.237	4.55	198	27.492	1029.2	57.9	0.232	1453.8	346
375	0.007	-0.007	2.168	1.886	34.241	4.54	197	27.494	1029.3	57.6	0.247	1454.3	371
400	0.131	0.115	2.314	2.012	34.287	4.51	196	27.524	1029.4	54.9	0.261	1455.3	395
425	0.187	0.170	2.390	2.070	34.309	4.50	196	27.539	1029.6	53.6	0.274	1456.0	420
450	0.277	0.258	2.501	2.162	34.351	4.51	196	27.568	1029.7	50.9	0.287	1456.9	445
475	0.319	0.299	2.563	2.205	34.369	4.51	196	27.581	1029.8	49.8	0.300	1457.5	469
500	0.359	0.338	2.623	2.246	34.396	4.54	197	27.600	1030.0	48.0	0.312	1458.1	494
550	0.580	0.555	2.887	2.473	34.484	4.52	196	27.659	1030.3	42.9	0.335	1460.1	543
600	0.849	0.821	3.198	2.746	34.561	4.40	191	27.704	1030.5	39.2	0.355	1462.2	593
650	1.003	0.971	3.392	2.902	34.607	4.33	188	27.731	1030.8	37.0	0.374	1463.8	642
700	1.116	1.080	3.545	3.018	34.643	4.30	187	27.753	1031.0	35.3	0.392	1465.2	691
750	1.175	1.136	3.643	3.078	34.667	4.29	186	27.768	1031.3	34.1	0.410	1466.3	741
800	1.204	1.162	3.710	3.108	34.684	4.28	186	27.780	1031.5	33.2	0.426	1467.3	790
850	1.212	1.167	3.757	3.117	34.690	4.29	186	27.785	1031.8	33.0	0.443	1468.1	839
900	1.215	1.167	3.798	3.120	34.693	4.29	186	27.787	1032.0	32.9	0.459	1469.0	888
905	1.216	1.167	3.802	3.120	34.694	4.29	186	27.788	1032.0	32.8	0.461	1469.1	893


Velocity (cm/s)
-20
0
20
V
Potential Temperature (°C)
-1.5
-1.0
-0.5
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NBP0901 058
75 5.44 S
101 46.53 W
Pressure (dbar)
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700
800
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1000
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1200
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120°W
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100°W
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Salinity
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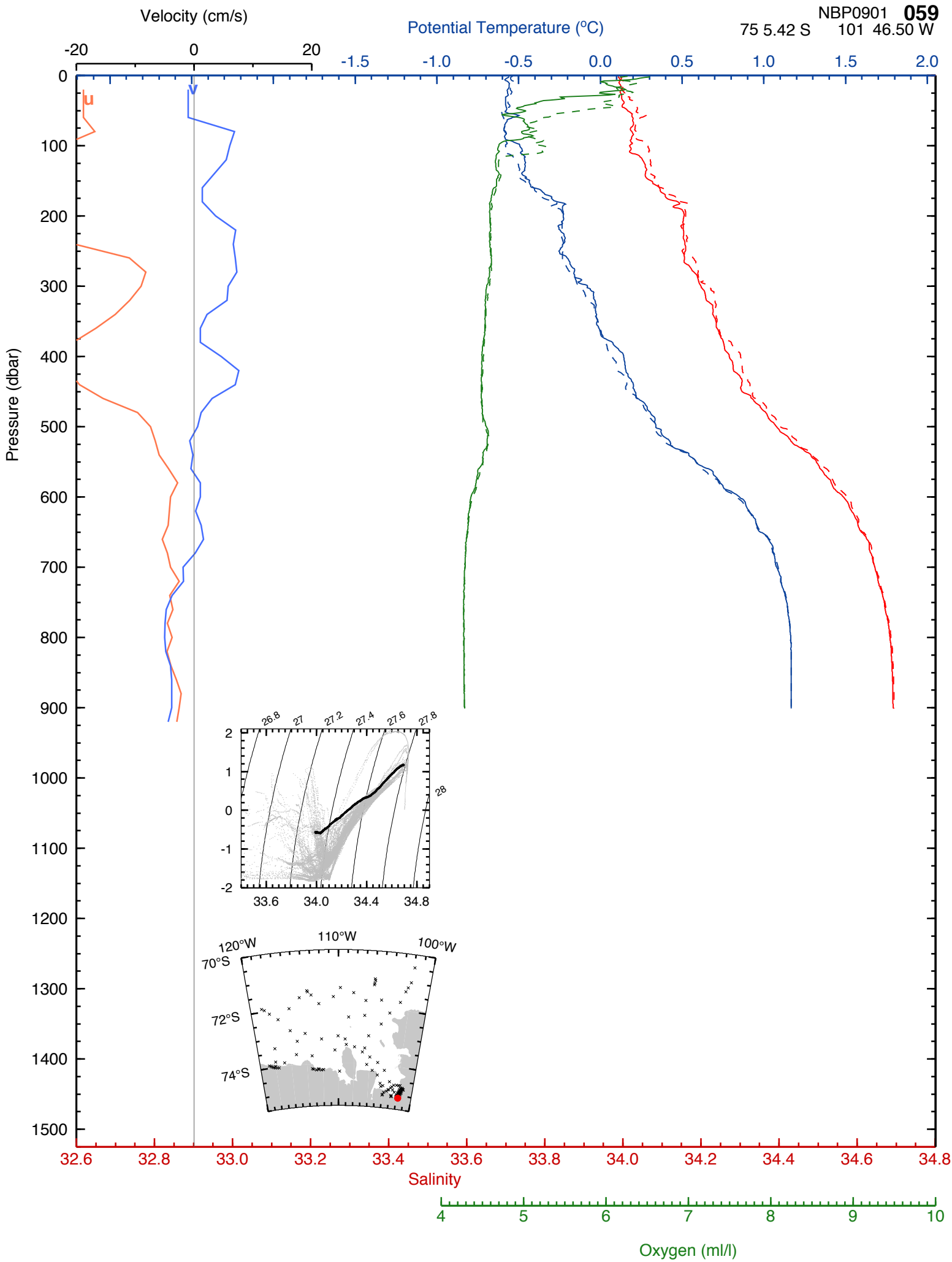
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**059D**	2009/01/24	22:01	-75.0904	-101.7750	901	49	939		5.9	119	-2.8	981.1

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.560	-0.560	1.305	1.304	33.989	6.52	284	90.1	27.317	1027.3	74.8	0.001	1445.2			1
25	-0.568	-0.569	1.316	1.297	34.005	5.92	257	90.9	27.330	1027.4	73.5	0.018	1445.6	0.188	267	25
50	-0.577	-0.579	1.327	1.290	34.035	5.02	218	94.2	27.354	1027.6	71.1	0.036	1446.0	0.188	267	50
75	-0.586	-0.588	1.337	1.281	34.031	5.07	220	94.0	27.352	1027.7	71.2	0.054	1446.3	0.184	285	74
100	-0.490	-0.493	1.454	1.378	34.065	4.70	204	94.7	27.375	1027.9	69.0	0.072	1447.2	0.230	286	99
125	-0.456	-0.460	1.507	1.413	34.071	4.66	203	94.7	27.378	1028.0	68.6	0.089	1447.8	0.281	281	124
150	-0.430	-0.435	1.553	1.440	34.088	4.67	203	94.6	27.391	1028.1	67.4	0.106	1448.4	0.317	275	148
175	-0.294	-0.299	1.711	1.579	34.133	4.61	200	94.7	27.421	1028.3	64.5	0.123	1449.5	0.297	273	173
200	-0.220	-0.227	1.804	1.654	34.161	4.59	200	94.8	27.440	1028.4	62.7	0.138	1450.2	0.255	278	198
225	-0.218	-0.226	1.825	1.656	34.162	4.59	199	94.7	27.441	1028.5	62.6	0.154	1450.7	0.229	288	222
250	-0.244	-0.253	1.817	1.629	34.152	4.59	200	94.7	27.434	1028.6	63.2	0.170	1450.9	0.184	293	247
275	-0.151	-0.160	1.932	1.725	34.193	4.58	199	94.9	27.462	1028.8	60.5	0.185	1451.8	0.118	308	272
300	-0.068	-0.079	2.035	1.809	34.219	4.55	198	94.9	27.480	1028.9	59.0	0.200	1452.7	0.107	304	297
325	-0.015	-0.027	2.108	1.863	34.239	4.54	197	94.7	27.493	1029.0	57.7	0.215	1453.3	0.124	296	321
350	-0.006	-0.020	2.136	1.872	34.241	4.53	197	94.7	27.494	1029.2	57.6	0.229	1453.8	0.145	278	346
375	0.045	0.031	2.208	1.925	34.262	4.52	196	94.7	27.509	1029.3	56.3	0.243	1454.5	0.188	273	371
400	0.159	0.143	2.342	2.041	34.302	4.50	195	94.7	27.535	1029.4	53.9	0.257	1455.5	0.225	280	395
425	0.184	0.167	2.387	2.067	34.311	4.49	195	94.8	27.541	1029.6	53.3	0.271	1456.0	0.227	290	420
450	0.230	0.212	2.453	2.114	34.330	4.49	195	94.8	27.554	1029.7	52.2	0.284	1456.6	0.196	288	445
475	0.306	0.287	2.550	2.193	34.368	4.50	196	95.7	27.581	1029.8	49.8	0.297	1457.4	0.130	279	469
500	0.359	0.338	2.624	2.247	34.403	4.55	198	96.5	27.606	1030.0	47.5	0.309	1458.1	0.081	275	494
550	0.612	0.587	2.920	2.506	34.501	4.50	196	97.7	27.671	1030.3	41.9	0.331	1460.2	0.056	267	543
600	0.878	0.849	3.227	2.776	34.574	4.36	190	97.6	27.712	1030.5	38.5	0.351	1462.4	0.037	288	593
650	1.012	0.980	3.402	2.913	34.615	4.31	187	97.6	27.737	1030.8	36.5	0.370	1463.8	0.047	285	642
700	1.114	1.079	3.543	3.016	34.646	4.29	186	97.7	27.756	1031.0	35.1	0.387	1465.2	0.044	257	691
750	1.178	1.140	3.647	3.082	34.671	4.27	186	97.9	27.772	1031.3	33.8	0.405	1466.3	0.055	228	741
800	1.206	1.165	3.713	3.111	34.687	4.28	186	97.8	27.782	1031.5	33.0	0.421	1467.3	0.065	220	790
850	1.212	1.168	3.757	3.117	34.693	4.28	186	97.8	27.787	1031.8	32.7	0.438	1468.2	0.056	224	839
900	1.215	1.167	3.798	3.120	34.694	4.28	186	97.8	27.788	1032.0	32.8	0.454	1469.0	0.044	211	888
901	1.215	1.167	3.799	3.120	34.694	4.28	186	97.8	27.788	1032.0	32.9	0.454	1469.0	0.044	211	890

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	059U	2009/01/24	22:44	-75.0907	-101.7754	901	49	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.538	-0.538	1.327	1.327	33.994	6.26	272	27.320	1027.3	74.5	0.001	1445.3	1
25	-0.544	-0.544	1.340	1.321	33.994	6.30	274	27.320	1027.4	74.4	0.019	1445.7	25
50	-0.596	-0.597	1.308	1.270	34.013	5.69	248	27.337	1027.6	72.7	0.037	1445.9	50
75	-0.588	-0.590	1.334	1.278	34.020	5.10	222	27.343	1027.7	72.1	0.055	1446.3	74
100	-0.578	-0.581	1.364	1.288	34.017	5.23	227	27.340	1027.8	72.2	0.073	1446.8	99
125	-0.501	-0.505	1.461	1.367	34.055	4.69	204	27.368	1028.0	69.6	0.091	1447.6	124
150	-0.460	-0.465	1.522	1.409	34.073	4.70	204	27.380	1028.1	68.4	0.108	1448.2	148
175	-0.342	-0.348	1.661	1.529	34.112	4.64	202	27.407	1028.2	65.9	0.125	1449.2	173
200	-0.225	-0.232	1.800	1.649	34.156	4.60	200	27.437	1028.4	63.0	0.141	1450.2	198
225	-0.227	-0.234	1.817	1.647	34.156	4.60	200	27.436	1028.5	63.0	0.157	1450.6	222
250	-0.220	-0.229	1.842	1.654	34.160	4.61	200	27.439	1028.6	62.7	0.172	1451.1	247
275	-0.192	-0.202	1.890	1.683	34.175	4.61	200	27.450	1028.8	61.7	0.188	1451.6	272
300	-0.119	-0.130	1.984	1.758	34.200	4.59	199	27.467	1028.9	60.1	0.203	1452.4	297
325	-0.036	-0.048	2.087	1.842	34.226	4.55	198	27.484	1029.0	58.6	0.218	1453.2	321
350	-0.002	-0.015	2.141	1.877	34.239	4.54	197	27.492	1029.2	57.8	0.233	1453.8	346
375	0.039	0.025	2.201	1.919	34.254	4.53	197	27.503	1029.3	56.8	0.247	1454.4	371
400	0.088	0.073	2.270	1.969	34.273	4.51	196	27.515	1029.4	55.7	0.261	1455.1	395
425	0.152	0.135	2.354	2.034	34.295	4.50	196	27.530	1029.5	54.4	0.275	1455.8	420
450	0.183	0.165	2.404	2.065	34.305	4.50	195	27.537	1029.7	53.8	0.288	1456.4	445
475	0.291	0.272	2.534	2.177	34.356	4.50	195	27.572	1029.8	50.6	0.301	1457.4	469
500	0.360	0.339	2.624	2.248	34.394	4.52	197	27.599	1030.0	48.2	0.314	1458.1	494
550	0.607	0.583	2.915	2.501	34.496	4.51	196	27.666	1030.3	42.3	0.336	1460.2	543
600	0.861	0.833	3.210	2.758	34.565	4.39	191	27.706	1030.5	39.0	0.357	1462.3	593
650	1.020	0.988	3.409	2.920	34.611	4.32	188	27.734	1030.8	36.8	0.375	1463.9	642
700	1.122	1.087	3.551	3.024	34.645	4.29	186	27.755	1031.0	35.2	0.393	1465.2	691
750	1.182	1.143	3.650	3.085	34.670	4.27	186	27.770	1031.3	34.0	0.411	1466.3	741
800	1.205	1.163	3.712	3.110	34.684	4.28	186	27.781	1031.5	33.2	0.427	1467.3	790
850	1.213	1.168	3.757	3.117	34.690	4.28	186	27.785	1031.8	33.0	0.444	1468.1	839
900	1.215	1.167	3.798	3.120	34.693	4.28	186	27.787	1032.0	32.9	0.460	1469.0	888
901	1.215	1.167	3.799	3.120	34.694	4.28	186	27.788	1032.0	32.9	0.461	1469.0	890

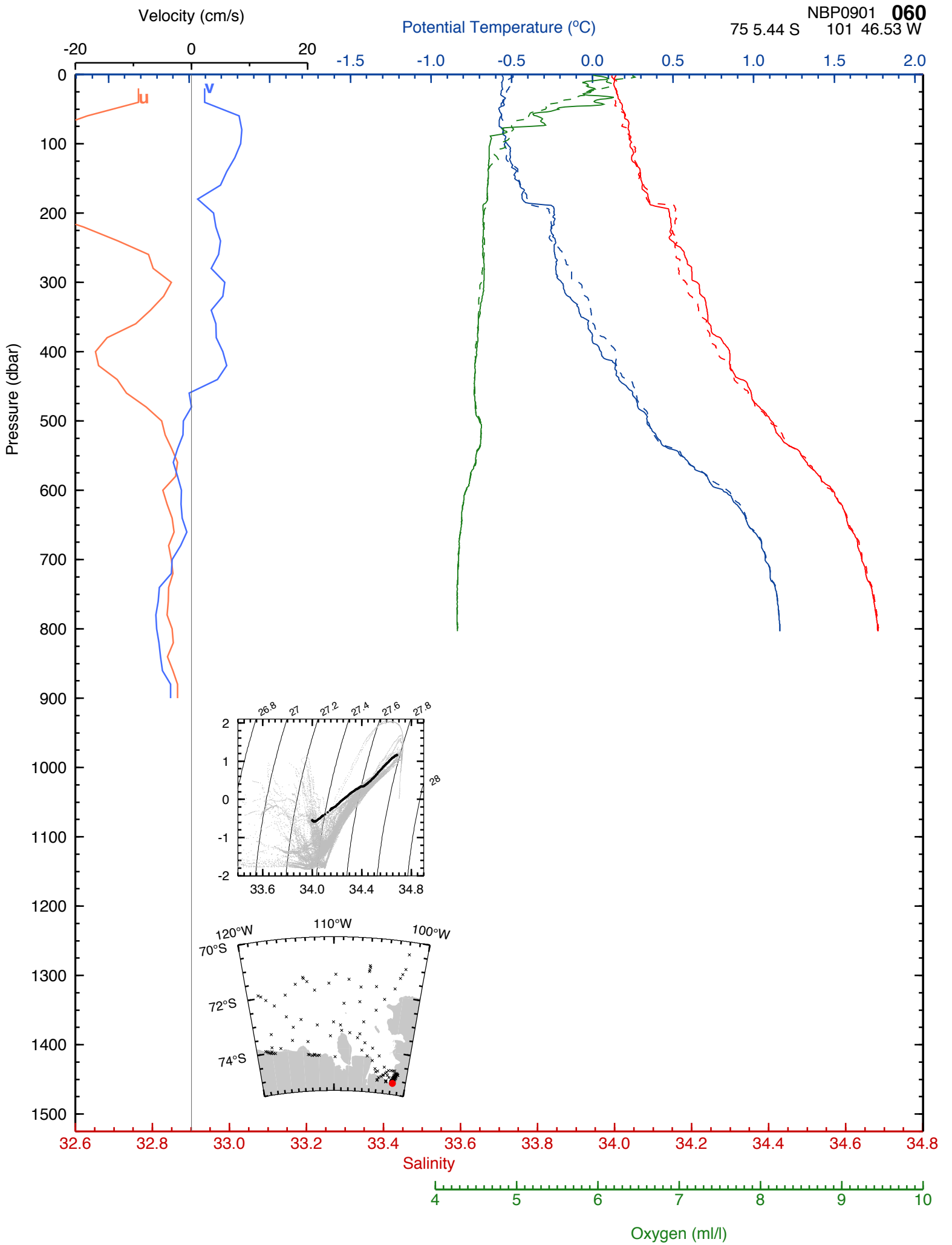

NBP0901 059
75 5.42 S 101 46.50 W
Velocity (cm/s)
-20 0 20
u
v
Potential Temperature (°C)
-1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0
Pressure (dbar)
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500
26.8 27 27.2 27.4 27.6 27.8
28
2 1 0 -1 -2
33.6 34.0 34.4 34.8
120°W 110°W 100°W
70°S 72°S 74°S
32.6 32.8 33.0 33.2 33.4 33.6 33.8 34.0 34.2 34.4 34.6 34.8
Salinity
4 5 6 7 8 9 10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**060D**	2009/01/24	23:00	-75.0907	-101.7755	803	146	939		4.8	124	-3.3	981.0

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.560	-0.560	1.306	1.305	34.004	5.94	258	91.4	27.328	1027.3	73.7	0.001	1445.2			1
25	-0.566	-0.567	1.318	1.299	34.005	5.91	257	91.6	27.330	1027.5	73.4	0.018	1445.6	0.094	284	25
50	-0.580	-0.581	1.323	1.286	34.011	5.52	240	92.5	27.335	1027.6	72.9	0.037	1445.9	0.143	289	50
75	-0.576	-0.579	1.346	1.290	34.019	5.19	225	93.1	27.342	1027.7	72.2	0.055	1446.4	0.247	291	74
100	-0.526	-0.529	1.417	1.342	34.045	4.67	203	94.9	27.360	1027.8	70.3	0.073	1447.0	0.279	288	99
125	-0.505	-0.509	1.457	1.363	34.053	4.66	203	94.9	27.366	1028.0	69.7	0.090	1447.6	0.313	283	124
150	-0.477	-0.482	1.504	1.391	34.064	4.65	202	94.9	27.373	1028.1	69.0	0.107	1448.1	0.317	280	148
175	-0.431	-0.437	1.570	1.438	34.081	4.64	202	94.8	27.386	1028.2	67.8	0.124	1448.8	0.305	275	173
200	-0.232	-0.238	1.793	1.642	34.157	4.59	200	94.9	27.438	1028.4	63.0	0.141	1450.2	0.267	278	198
225	-0.250	-0.258	1.793	1.623	34.149	4.59	200	94.8	27.432	1028.5	63.4	0.156	1450.5	0.184	284	222
250	-0.228	-0.236	1.834	1.646	34.157	4.59	199	94.8	27.438	1028.6	62.9	0.172	1451.0	0.119	295	247
275	-0.216	-0.225	1.866	1.659	34.167	4.60	200	94.8	27.445	1028.8	62.2	0.188	1451.5	0.080	299	272
300	-0.182	-0.192	1.920	1.694	34.184	4.60	200	94.9	27.457	1028.9	61.0	0.203	1452.1	0.068	323	297
325	-0.117	-0.129	2.005	1.760	34.206	4.57	199	95.0	27.472	1029.0	59.6	0.218	1452.8	0.072	317	321
350	-0.054	-0.067	2.088	1.824	34.225	4.54	197	94.9	27.484	1029.1	58.5	0.233	1453.5	0.087	295	346
375	0.013	-0.002	2.174	1.892	34.247	4.52	196	94.9	27.499	1029.3	57.2	0.247	1454.3	0.130	290	371
400	0.068	0.053	2.250	1.949	34.269	4.51	196	94.7	27.513	1029.4	55.9	0.262	1455.0	0.169	288	395
425	0.157	0.140	2.359	2.039	34.301	4.49	195	94.8	27.534	1029.5	54.0	0.275	1455.8	0.171	291	420
450	0.230	0.212	2.453	2.114	34.332	4.48	195	94.8	27.555	1029.7	52.1	0.289	1456.6	0.130	284	445
475	0.298	0.279	2.542	2.184	34.364	4.49	195	95.4	27.578	1029.8	50.1	0.301	1457.4	0.096	269	469
500	0.359	0.338	2.624	2.247	34.404	4.54	197	96.5	27.606	1030.0	47.5	0.314	1458.1	0.060	259	494
550	0.570	0.546	2.877	2.463	34.486	4.50	196	97.5	27.661	1030.3	42.7	0.336	1460.0	0.042	232	543
600	0.837	0.809	3.186	2.734	34.563	4.38	190	97.7	27.707	1030.5	38.9	0.357	1462.2	0.046	243	593
650	0.996	0.964	3.386	2.896	34.609	4.32	188	97.7	27.734	1030.8	36.8	0.375	1463.8	0.036	245	642
700	1.106	1.071	3.535	3.008	34.642	4.29	186	97.7	27.753	1031.0	35.3	0.393	1465.1	0.046	234	691
750	1.182	1.143	3.650	3.085	34.673	4.27	185	97.8	27.773	1031.3	33.7	0.411	1466.3	0.067	215	741
800	1.203	1.161	3.710	3.107	34.685	4.27	186	97.9	27.781	1031.5	33.1	0.427	1467.3	0.071	212	790
803	1.203	1.161	3.712	3.107	34.684	4.27	186	97.8	27.780	1031.5	33.2	0.428	1467.3			793

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	060U	2009/01/24	23:38	-75.0904	-101.7750	803	146	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.494	-0.494	1.371	1.370	33.993	6.43	280	27.317	1027.3	74.7	0.001	1445.5	1
25	-0.533	-0.533	1.352	1.333	34.006	5.86	255	27.329	1027.4	73.5	0.019	1445.8	25
50	-0.563	-0.564	1.341	1.304	34.020	5.35	233	27.341	1027.6	72.3	0.037	1446.0	50
75	-0.554	-0.556	1.370	1.313	34.036	4.94	215	27.354	1027.7	71.0	0.055	1446.5	74
100	-0.542	-0.545	1.401	1.325	34.041	4.82	210	27.358	1027.8	70.6	0.072	1447.0	99
125	-0.521	-0.525	1.440	1.346	34.046	4.78	208	27.361	1028.0	70.2	0.090	1447.5	124
150	-0.454	-0.459	1.528	1.415	34.068	4.65	202	27.376	1028.1	68.8	0.107	1448.2	148
175	-0.402	-0.408	1.600	1.468	34.087	4.64	202	27.389	1028.2	67.5	0.124	1448.9	173
200	-0.259	-0.266	1.765	1.614	34.143	4.60	200	27.427	1028.4	63.9	0.141	1450.0	198
225	-0.252	-0.260	1.790	1.621	34.145	4.60	200	27.429	1028.5	63.7	0.157	1450.5	222
250	-0.201	-0.210	1.862	1.674	34.172	4.61	200	27.448	1028.6	61.9	0.173	1451.2	247
275	-0.142	-0.152	1.941	1.734	34.192	4.59	200	27.462	1028.8	60.6	0.188	1451.9	272
300	-0.075	-0.086	2.028	1.802	34.214	4.57	199	27.476	1028.9	59.3	0.203	1452.6	297
325	-0.012	-0.024	2.111	1.866	34.235	4.53	197	27.490	1029.0	58.0	0.218	1453.3	321
350	0.008	-0.005	2.151	1.887	34.242	4.53	197	27.495	1029.2	57.6	0.232	1453.9	346
375	0.049	0.034	2.211	1.928	34.257	4.52	197	27.504	1029.3	56.7	0.246	1454.5	371
400	0.160	0.144	2.343	2.042	34.299	4.49	195	27.532	1029.4	54.2	0.260	1455.5	395
425	0.175	0.158	2.378	2.058	34.303	4.49	195	27.535	1029.5	53.9	0.274	1455.9	420
450	0.273	0.255	2.497	2.158	34.346	4.49	195	27.565	1029.7	51.2	0.287	1456.8	445
475	0.312	0.292	2.556	2.198	34.367	4.49	195	27.579	1029.8	49.9	0.299	1457.5	469
500	0.363	0.342	2.628	2.252	34.407	4.55	198	27.609	1030.0	47.3	0.312	1458.2	494
550	0.581	0.556	2.888	2.473	34.485	4.51	196	27.660	1030.3	42.8	0.334	1460.1	543
600	0.865	0.837	3.214	2.763	34.566	4.38	190	27.707	1030.5	38.9	0.355	1462.3	593
650	1.000	0.968	3.389	2.899	34.606	4.32	188	27.731	1030.8	37.0	0.374	1463.8	642
700	1.113	1.078	3.542	3.015	34.642	4.29	186	27.752	1031.0	35.4	0.392	1465.2	691
750	1.182	1.143	3.650	3.086	34.670	4.27	186	27.770	1031.3	34.0	0.409	1466.3	741
800	1.203	1.161	3.709	3.107	34.683	4.27	186	27.779	1031.5	33.3	0.426	1467.3	790
803	1.203	1.161	3.712	3.107	34.684	4.27	186	27.780	1031.5	33.2	0.427	1467.3	793


NBP0901 060
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Velocity (cm/s)
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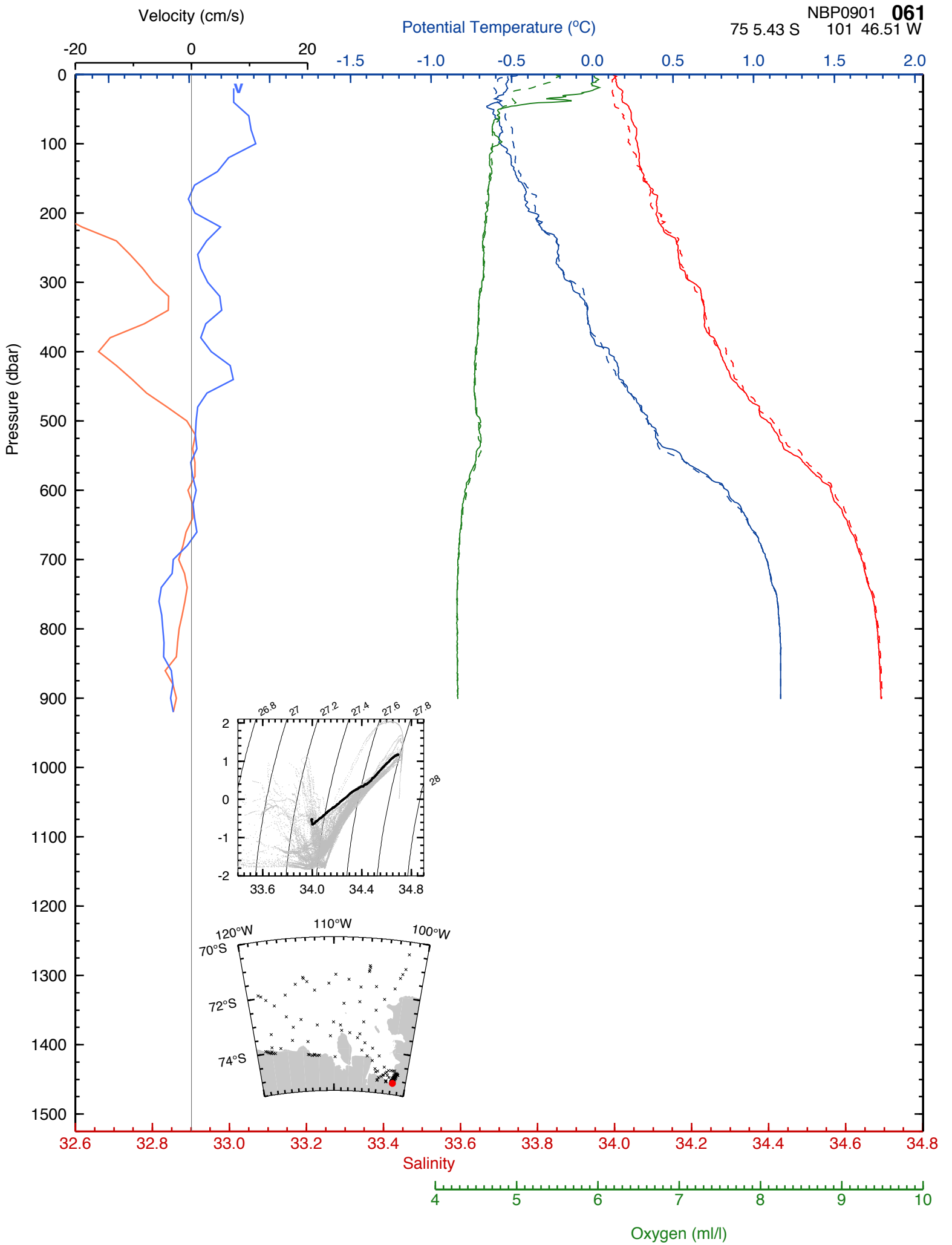
u
v
Potential Temperature (°C)
-1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0
Pressure (dbar)
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500
26.8 27 27.2 27.4 27.6 27.8
2 1 0 -1 -2
28
33.6 34.0 34.4 34.8
120°W 110°W 100°W
70°S 72°S 74°S
32.6 32.8 33.0 33.2 33.4 33.6 33.8 34.0 34.2 34.4 34.6 34.8
Salinity
4 5 6 7 8 9 10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**061D**	2009/01/25	00:15	-75.0905	-101.7752	901	49	939		4.6	108	-2.6	980.9

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.524	-0.524	1.342	1.341	34.001	5.95	259	90.6	27.325	1027.3	74.0	0.001	1445.4			2
25	-0.540	-0.541	1.344	1.325	33.994	5.86	255	91.1	27.320	1027.4	74.4	0.019	1445.7	0.246	287	25
50	-0.620	-0.621	1.284	1.246	34.018	4.78	208	94.5	27.343	1027.6	72.2	0.037	1445.8	0.274	288	50
75	-0.567	-0.570	1.356	1.300	34.035	4.70	204	94.6	27.354	1027.7	71.0	0.055	1446.4	0.315	289	74
100	-0.568	-0.571	1.375	1.299	34.039	4.78	208	94.6	27.357	1027.8	70.7	0.073	1446.8	0.352	288	99
125	-0.500	-0.504	1.462	1.368	34.058	4.67	203	94.7	27.370	1028.0	69.4	0.090	1447.6	0.358	280	124
150	-0.458	-0.463	1.524	1.411	34.078	4.68	204	94.8	27.384	1028.1	68.0	0.107	1448.2	0.309	275	148
175	-0.415	-0.420	1.587	1.455	34.091	4.66	202	94.8	27.393	1028.2	67.1	0.124	1448.8	0.267	270	173
200	-0.355	-0.361	1.667	1.517	34.114	4.62	201	94.9	27.409	1028.4	65.6	0.141	1449.6	0.235	271	198
225	-0.295	-0.302	1.747	1.578	34.135	4.61	200	95.0	27.423	1028.5	64.3	0.157	1450.3	0.188	284	222
250	-0.202	-0.210	1.861	1.673	34.168	4.58	199	94.9	27.445	1028.6	62.2	0.173	1451.2	0.123	279	247
275	-0.203	-0.213	1.879	1.672	34.174	4.60	200	94.9	27.450	1028.8	61.7	0.188	1451.6	0.095	279	272
300	-0.124	-0.135	1.979	1.753	34.203	4.57	199	95.0	27.470	1028.9	59.8	0.204	1452.4	0.074	291	297
325	-0.042	-0.054	2.080	1.836	34.229	4.54	197	94.9	27.487	1029.0	58.3	0.218	1453.2	0.063	322	321
350	-0.016	-0.030	2.126	1.862	34.237	4.53	197	94.9	27.492	1029.2	57.8	0.233	1453.7	0.072	312	346
375	0.004	-0.011	2.165	1.883	34.247	4.52	197	94.9	27.499	1029.3	57.2	0.247	1454.2	0.115	282	371
400	0.120	0.104	2.302	2.001	34.290	4.49	195	94.7	27.527	1029.4	54.6	0.261	1455.2	0.159	281	395
425	0.179	0.162	2.382	2.062	34.310	4.49	195	94.6	27.541	1029.6	53.4	0.275	1456.0	0.145	297	420
450	0.233	0.215	2.456	2.117	34.333	4.48	195	94.8	27.556	1029.7	52.0	0.288	1456.7	0.115	302	445
475	0.304	0.284	2.548	2.190	34.370	4.49	195	96.0	27.582	1029.8	49.7	0.301	1457.4	0.064	287	469
500	0.362	0.341	2.627	2.251	34.410	4.56	198	96.8	27.611	1030.0	47.0	0.313	1458.2	0.021	306	494
550	0.575	0.550	2.882	2.467	34.487	4.50	196	97.6	27.661	1030.3	42.7	0.335	1460.1	0.009	27	543
600	0.864	0.835	3.213	2.761	34.570	4.37	190	97.8	27.711	1030.5	38.6	0.356	1462.3	0.009	231	593
650	1.005	0.973	3.394	2.905	34.612	4.32	188	97.7	27.735	1030.8	36.6	0.374	1463.8	0.006	52	642
700	1.116	1.080	3.545	3.018	34.647	4.28	186	97.8	27.756	1031.0	35.0	0.392	1465.2	0.029	228	691
750	1.179	1.141	3.648	3.083	34.672	4.27	185	97.9	27.772	1031.3	33.8	0.410	1466.3	0.052	188	741
800	1.204	1.162	3.710	3.108	34.685	4.27	185	97.9	27.782	1031.5	33.1	0.426	1467.3	0.053	200	790
850	1.212	1.167	3.756	3.116	34.691	4.27	186	97.8	27.786	1031.8	32.9	0.443	1468.1	0.055	208	839
900	1.215	1.167	3.798	3.120	34.693	4.28	186	97.8	27.788	1032.0	32.9	0.459	1469.0	0.045	221	888
901	1.216	1.167	3.799	3.120	34.693	4.28	186	97.8	27.787	1032.0	32.9	0.460	1469.0	0.045	221	890

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	061U	2009/01/25	00:53	-75.0904	-101.7751	901	49	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.462	-0.462	1.404	1.403	33.996	5.49	239	27.317	1027.3	74.7	0.001	1445.7	1
25	-0.594	-0.595	1.291	1.272	34.021	4.95	215	27.344	1027.5	72.1	0.018	1445.5	25
50	-0.546	-0.547	1.359	1.321	34.040	4.80	209	27.357	1027.6	70.8	0.036	1446.1	50
75	-0.504	-0.506	1.421	1.364	34.053	4.71	205	27.366	1027.7	69.9	0.054	1446.8	74
100	-0.487	-0.490	1.457	1.382	34.059	4.70	204	27.370	1027.8	69.4	0.071	1447.2	99
125	-0.475	-0.479	1.488	1.393	34.064	4.70	204	27.373	1028.0	69.1	0.089	1447.7	124
150	-0.442	-0.447	1.540	1.427	34.075	4.67	203	27.381	1028.1	68.3	0.106	1448.3	148
175	-0.342	-0.348	1.661	1.530	34.111	4.63	201	27.406	1028.2	66.0	0.123	1449.2	173
200	-0.355	-0.362	1.667	1.516	34.108	4.64	202	27.404	1028.4	66.1	0.139	1449.5	198
225	-0.294	-0.302	1.748	1.578	34.127	4.61	201	27.416	1028.5	64.9	0.155	1450.3	222
250	-0.203	-0.211	1.860	1.672	34.165	4.59	200	27.442	1028.6	62.4	0.171	1451.2	247
275	-0.195	-0.204	1.887	1.680	34.169	4.59	200	27.446	1028.8	62.1	0.187	1451.6	272
300	-0.105	-0.116	1.998	1.772	34.203	4.57	199	27.469	1028.9	60.0	0.202	1452.5	297
325	-0.034	-0.046	2.088	1.844	34.227	4.54	197	27.484	1029.0	58.5	0.217	1453.2	321
350	-0.019	-0.032	2.123	1.859	34.232	4.53	197	27.488	1029.2	58.2	0.231	1453.7	346
375	0.017	0.002	2.178	1.896	34.245	4.53	197	27.497	1029.3	57.4	0.246	1454.3	371
400	0.093	0.077	2.274	1.973	34.275	4.51	196	27.517	1029.4	55.6	0.260	1455.1	395
425	0.145	0.128	2.346	2.026	34.292	4.50	196	27.528	1029.5	54.5	0.274	1455.8	420
450	0.219	0.201	2.441	2.102	34.322	4.49	195	27.548	1029.7	52.7	0.287	1456.6	445
475	0.301	0.282	2.545	2.187	34.362	4.49	195	27.576	1029.8	50.3	0.300	1457.4	469
500	0.366	0.345	2.631	2.254	34.396	4.52	197	27.600	1030.0	48.1	0.312	1458.2	494
550	0.534	0.510	2.840	2.426	34.470	4.54	197	27.650	1030.2	43.7	0.335	1459.8	543
600	0.847	0.819	3.196	2.744	34.561	4.38	190	27.705	1030.5	39.1	0.356	1462.2	593
650	1.001	0.969	3.390	2.901	34.606	4.33	188	27.731	1030.8	37.0	0.375	1463.8	642
700	1.115	1.080	3.544	3.017	34.642	4.28	186	27.752	1031.0	35.4	0.393	1465.2	691
750	1.179	1.140	3.647	3.082	34.668	4.27	186	27.769	1031.3	34.1	0.411	1466.3	741
800	1.204	1.162	3.710	3.108	34.682	4.27	186	27.779	1031.5	33.4	0.427	1467.3	790
850	1.212	1.167	3.756	3.116	34.688	4.27	186	27.783	1031.8	33.1	0.444	1468.1	839
900	1.215	1.167	3.798	3.120	34.692	4.28	186	27.787	1032.0	33.0	0.461	1469.0	888
901	1.216	1.167	3.799	3.120	34.693	4.28	186	27.787	1032.0	32.9	0.461	1469.0	890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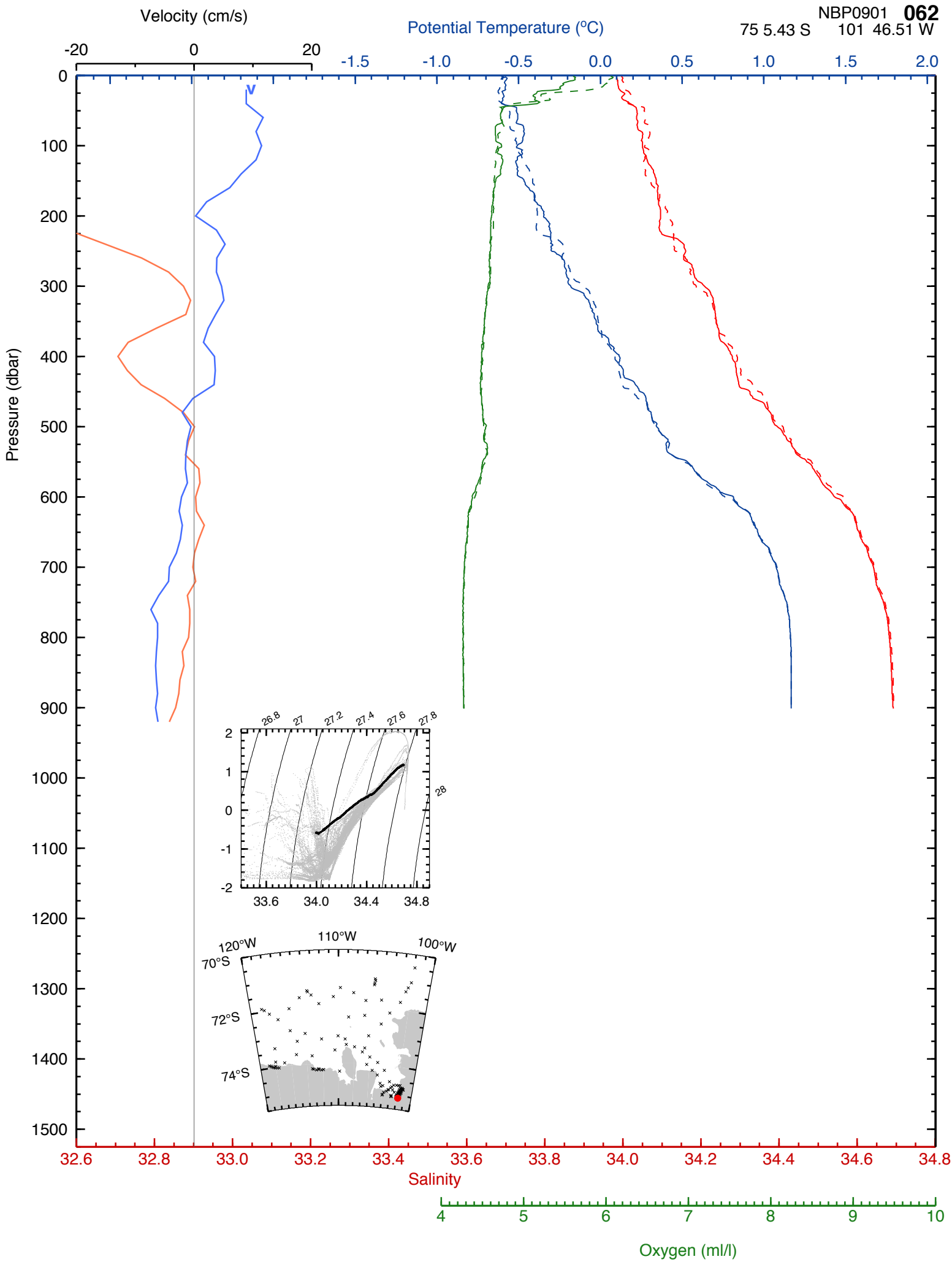
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 061
75 5.43 S
101 46.51 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
V
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**062D**	2009/01/25	00:59	-75.0905	-101.7752	901	49	939		6.3	130	-3.2	980.7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.580	-0.580	1.285	1.285	33.996	5.60	243	92.1	27.323	1027.3	74.1	0.001	1445.1			1
25	-0.597	-0.597	1.288	1.269	34.018	5.16	224	93.7	27.341	1027.5	72.4	0.018	1445.5	0.331	286	25
50	-0.513	-0.515	1.393	1.355	34.055	4.74	206	94.6	27.367	1027.6	69.8	0.036	1446.3	0.346	287	50
75	-0.467	-0.469	1.458	1.402	34.068	4.66	203	94.7	27.377	1027.7	68.9	0.054	1447.0	0.344	288	74
100	-0.504	-0.508	1.439	1.364	34.056	4.73	206	94.6	27.369	1027.8	69.6	0.071	1447.2	0.333	290	99
125	-0.512	-0.516	1.450	1.356	34.054	4.74	206	94.5	27.367	1028.0	69.6	0.088	1447.5	0.321	288	124
150	-0.463	-0.467	1.519	1.406	34.070	4.66	203	94.7	27.378	1028.1	68.6	0.106	1448.2	0.273	285	148
175	-0.396	-0.402	1.606	1.474	34.094	4.63	201	94.8	27.394	1028.2	67.0	0.122	1448.9	0.241	278	173
200	-0.341	-0.347	1.682	1.531	34.114	4.61	200	94.9	27.407	1028.4	65.7	0.139	1449.6	0.225	271	198
225	-0.296	-0.304	1.746	1.576	34.130	4.60	200	94.9	27.419	1028.5	64.7	0.155	1450.3	0.210	281	222
250	-0.289	-0.297	1.772	1.584	34.135	4.59	200	94.9	27.422	1028.6	64.3	0.171	1450.7	0.138	291	247
275	-0.203	-0.213	1.878	1.671	34.170	4.59	200	94.9	27.447	1028.8	62.0	0.187	1451.6	0.073	304	272
300	-0.171	-0.182	1.931	1.705	34.188	4.59	199	95.0	27.460	1028.9	60.8	0.202	1452.1	0.051	334	297
325	-0.052	-0.065	2.070	1.826	34.230	4.55	198	95.2	27.488	1029.0	58.2	0.217	1453.2	0.050	352	321
350	-0.013	-0.026	2.129	1.866	34.239	4.53	197	94.9	27.493	1029.2	57.7	0.232	1453.8	0.048	325	346
375	0.064	0.049	2.226	1.944	34.267	4.50	196	94.8	27.512	1029.3	56.0	0.246	1454.6	0.092	284	371
400	0.132	0.117	2.315	2.014	34.293	4.49	195	94.8	27.529	1029.4	54.4	0.260	1455.3	0.129	284	395
425	0.156	0.139	2.358	2.038	34.302	4.49	195	94.8	27.536	1029.5	53.8	0.273	1455.8	0.119	288	420
450	0.263	0.244	2.486	2.148	34.349	4.48	195	95.0	27.567	1029.7	51.0	0.287	1456.8	0.085	285	445
475	0.309	0.289	2.553	2.195	34.372	4.50	196	96.1	27.584	1029.8	49.5	0.299	1457.5	0.039	246	469
500	0.366	0.344	2.631	2.254	34.410	4.54	197	96.6	27.611	1030.0	47.0	0.311	1458.2	0.011	185	494
550	0.558	0.533	2.865	2.451	34.483	4.50	196	97.6	27.659	1030.3	42.8	0.334	1460.0	0.020	214	543
600	0.842	0.814	3.191	2.739	34.564	4.38	190	97.7	27.707	1030.5	38.9	0.354	1462.2	0.019	159	593
650	0.994	0.962	3.383	2.894	34.608	4.32	188	97.4	27.733	1030.8	36.8	0.373	1463.8	0.026	142	642
700	1.111	1.075	3.540	3.013	34.644	4.28	186	97.7	27.754	1031.0	35.2	0.391	1465.2	0.037	181	691
750	1.178	1.140	3.647	3.082	34.671	4.26	185	97.8	27.772	1031.3	33.8	0.409	1466.3	0.061	190	741
800	1.203	1.161	3.710	3.107	34.686	4.27	185	97.9	27.782	1031.5	33.1	0.425	1467.3	0.062	187	790
850	1.212	1.167	3.756	3.116	34.691	4.27	185	97.8	27.786	1031.8	32.9	0.442	1468.1	0.067	195	839
900	1.215	1.167	3.798	3.120	34.694	4.28	186	97.8	27.788	1032.0	32.8	0.458	1469.0	0.069	204	888
901	1.215	1.167	3.799	3.120	34.693	4.27	186	97.8	27.788	1032.0	32.9	0.459	1469.0	0.069	204	890

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	062U	2009/01/25	01:38	-75.0906	-101.7754	901	49	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.608	-0.608	1.257	1.257	33.985	6.06	263	27.315	1027.3	74.9	0.001	1445.0	1
25	-0.621	-0.622	1.263	1.244	34.004	5.28	230	27.331	1027.5	73.3	0.019	1445.3	25
50	-0.554	-0.556	1.350	1.313	34.036	4.74	206	27.354	1027.6	71.1	0.037	1446.1	50
75	-0.550	-0.552	1.374	1.317	34.038	4.77	207	27.355	1027.7	70.9	0.055	1446.5	74
100	-0.510	-0.513	1.433	1.358	34.051	4.69	204	27.364	1027.8	70.0	0.072	1447.1	99
125	-0.463	-0.467	1.500	1.405	34.065	4.66	203	27.374	1028.0	69.0	0.089	1447.8	124
150	-0.410	-0.415	1.572	1.459	34.085	4.64	202	27.388	1028.1	67.7	0.107	1448.5	148
175	-0.398	-0.404	1.604	1.472	34.089	4.64	202	27.391	1028.2	67.4	0.123	1448.9	173
200	-0.380	-0.387	1.641	1.490	34.097	4.64	201	27.396	1028.3	66.8	0.140	1449.4	198
225	-0.367	-0.375	1.673	1.504	34.099	4.63	201	27.397	1028.5	66.6	0.157	1449.9	222
250	-0.214	-0.223	1.848	1.660	34.160	4.59	199	27.439	1028.6	62.7	0.173	1451.1	247
275	-0.179	-0.189	1.903	1.696	34.179	4.60	200	27.453	1028.8	61.4	0.188	1451.7	272
300	-0.093	-0.104	2.010	1.784	34.209	4.57	199	27.473	1028.9	59.6	0.204	1452.5	297
325	-0.025	-0.037	2.098	1.853	34.233	4.54	197	27.489	1029.0	58.1	0.218	1453.3	321
350	-0.001	-0.014	2.142	1.878	34.239	4.53	197	27.493	1029.2	57.8	0.233	1453.8	346
375	0.027	0.013	2.189	1.906	34.248	4.52	197	27.499	1029.3	57.2	0.247	1454.4	371
400	0.104	0.089	2.287	1.986	34.280	4.50	196	27.520	1029.4	55.2	0.261	1455.2	395
425	0.134	0.117	2.335	2.015	34.291	4.50	195	27.528	1029.5	54.5	0.275	1455.7	420
450	0.224	0.206	2.447	2.108	34.325	4.49	195	27.551	1029.7	52.5	0.288	1456.6	445
475	0.315	0.295	2.559	2.201	34.370	4.50	196	27.582	1029.8	49.7	0.301	1457.5	469
500	0.365	0.344	2.629	2.253	34.396	4.52	196	27.600	1030.0	48.1	0.313	1458.2	494
550	0.533	0.509	2.840	2.425	34.472	4.53	197	27.651	1030.2	43.5	0.336	1459.8	543
600	0.791	0.762	3.139	2.687	34.543	4.41	192	27.693	1030.5	40.1	0.357	1461.9	593
650	0.997	0.965	3.386	2.897	34.605	4.32	188	27.730	1030.8	37.1	0.376	1463.8	642
700	1.115	1.080	3.544	3.017	34.642	4.28	186	27.752	1031.0	35.4	0.394	1465.2	691
750	1.179	1.140	3.647	3.082	34.668	4.27	185	27.769	1031.3	34.1	0.412	1466.3	741
800	1.204	1.162	3.711	3.108	34.683	4.27	185	27.779	1031.5	33.3	0.429	1467.3	790
850	1.212	1.167	3.756	3.116	34.688	4.27	185	27.783	1031.8	33.1	0.445	1468.1	839
900	1.215	1.167	3.798	3.120	34.693	4.27	186	27.787	1032.0	32.9	0.462	1469.0	888
901	1.215	1.167	3.799	3.120	34.693	4.27	186	27.788	1032.0	32.9	0.462	1469.0	890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1.5
2.0
NBP0901 062
75 5.43 S
101 46.51 W
Pressure (dbar)
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200
300
400
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26.8
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-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
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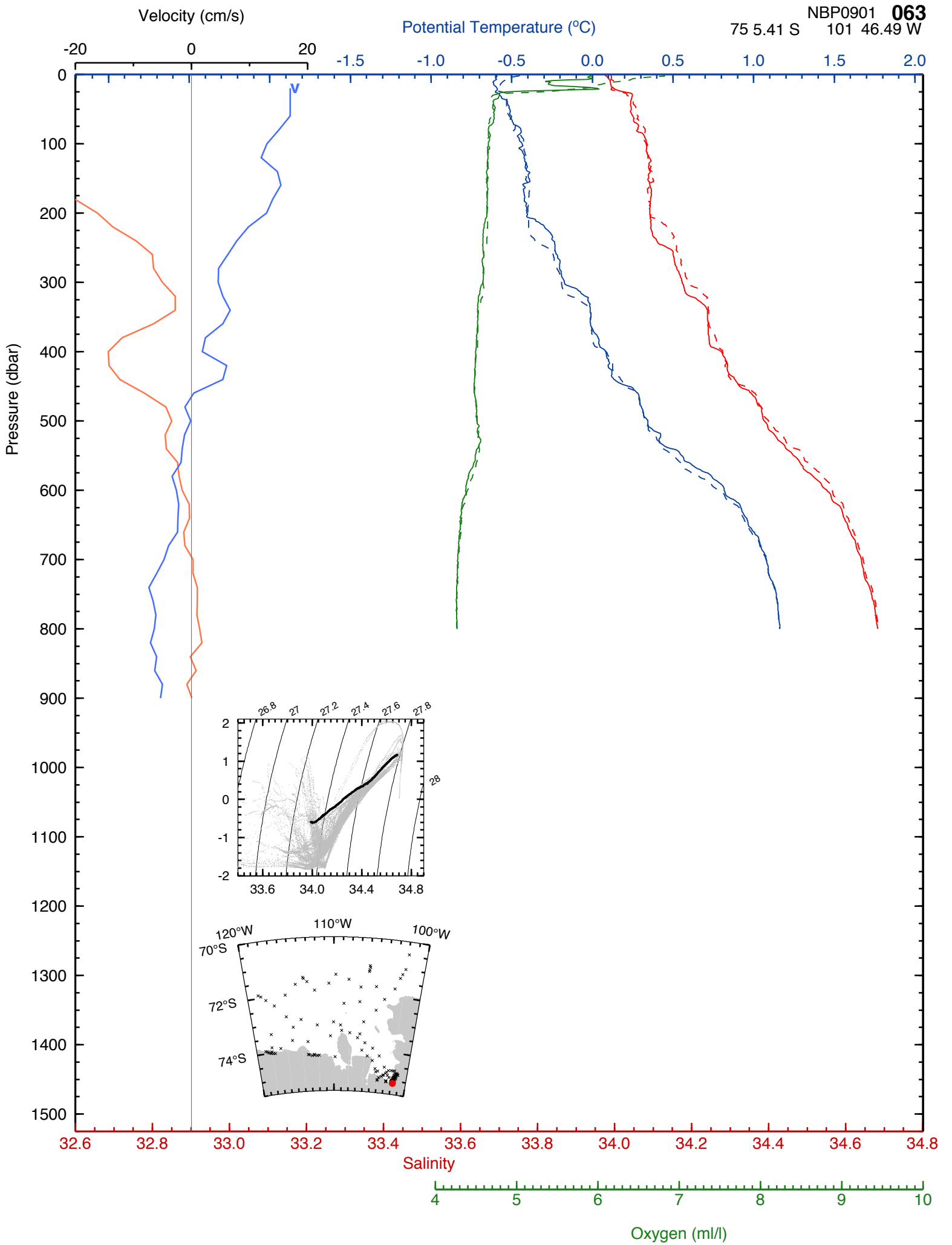
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**063D**	2009/01/25	01:59	-75.0902	-101.7748	800	150	939		6.3	130	-3.2	980.7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.596	-0.596	1.269	1.268	33.991	5.90	256	91.8	27.320	1027.3	74.5	0.001	1445.0			1
25	-0.602	-0.602	1.283	1.264	34.016	4.87	212	93.2	27.340	1027.5	72.5	0.019	1445.4	0.353	299	25
50	-0.512	-0.514	1.393	1.356	34.056	4.73	206	94.5	27.369	1027.6	69.7	0.036	1446.3	0.353	299	50
75	-0.458	-0.460	1.468	1.411	34.074	4.66	203	94.6	27.381	1027.7	68.5	0.054	1447.0	0.344	297	74
100	-0.434	-0.437	1.511	1.435	34.082	4.65	202	94.6	27.386	1027.9	67.9	0.071	1447.5	0.307	295	99
125	-0.415	-0.419	1.549	1.455	34.089	4.64	202	94.7	27.391	1028.0	67.4	0.088	1448.0	0.308	294	124
150	-0.389	-0.393	1.595	1.482	34.099	4.63	201	94.7	27.398	1028.1	66.7	0.104	1448.6	0.292	301	148
175	-0.416	-0.422	1.586	1.454	34.088	4.64	202	94.8	27.390	1028.2	67.4	0.121	1448.8	0.262	304	173
200	-0.402	-0.408	1.619	1.469	34.093	4.63	201	94.8	27.393	1028.3	67.0	0.138	1449.3	0.211	308	198
225	-0.269	-0.277	1.774	1.604	34.143	4.59	199	94.9	27.428	1028.5	63.8	0.154	1450.4	0.162	306	222
250	-0.224	-0.233	1.838	1.650	34.161	4.59	199	95.0	27.440	1028.6	62.6	0.170	1451.0	0.112	311	247
275	-0.194	-0.203	1.888	1.681	34.173	4.58	199	95.0	27.449	1028.8	61.8	0.186	1451.6	0.085	309	272
300	-0.163	-0.174	1.938	1.712	34.190	4.58	199	95.0	27.461	1028.9	60.7	0.201	1452.2	0.070	311	297
325	-0.017	-0.029	2.106	1.861	34.240	4.53	197	95.0	27.494	1029.0	57.6	0.216	1453.3	0.062	333	321
350	0.003	-0.010	2.145	1.882	34.245	4.52	197	94.9	27.497	1029.2	57.3	0.230	1453.8	0.077	329	346
375	0.036	0.022	2.198	1.916	34.258	4.51	196	94.9	27.506	1029.3	56.5	0.244	1454.4	0.104	295	371
400	0.098	0.083	2.281	1.979	34.281	4.49	195	94.8	27.521	1029.4	55.1	0.258	1455.1	0.139	278	395
425	0.129	0.112	2.331	2.010	34.294	4.49	195	94.9	27.531	1029.5	54.3	0.272	1455.7	0.155	293	420
450	0.247	0.229	2.471	2.132	34.342	4.47	194	94.9	27.562	1029.7	51.4	0.285	1456.7	0.122	289	445
475	0.313	0.293	2.557	2.199	34.374	4.50	196	96.1	27.585	1029.8	49.4	0.298	1457.5	0.064	265	469
500	0.365	0.344	2.630	2.253	34.399	4.51	196	96.4	27.603	1030.0	47.8	0.310	1458.2	0.037	265	494
550	0.580	0.555	2.887	2.473	34.489	4.49	195	97.6	27.663	1030.3	42.5	0.333	1460.1	0.043	247	543
600	0.846	0.817	3.195	2.743	34.565	4.37	190	97.8	27.707	1030.5	38.9	0.353	1462.2	0.034	212	593
650	0.999	0.967	3.388	2.899	34.610	4.31	187	97.7	27.734	1030.8	36.7	0.372	1463.8	0.023	190	642
700	1.114	1.078	3.543	3.016	34.645	4.27	186	97.8	27.755	1031.0	35.1	0.390	1465.2	0.044	185	691
750	1.179	1.140	3.647	3.082	34.672	4.26	185	97.8	27.772	1031.3	33.8	0.407	1466.3	0.074	172	741
800	1.202	1.160	3.709	3.106	34.684	4.26	185	97.9	27.780	1031.5	33.2	0.423	1467.3	0.064	170	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	063U	2009/01/25	02:34	-75.0906	-101.7753	800	150	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.450	-0.450	1.414	1.413	33.975	6.80	296	27.300	1027.3	76.3	0.001	1445.7	1
25	-0.563	-0.564	1.322	1.303	34.025	5.30	231	27.346	1027.5	72.0	0.019	1445.6	25
50	-0.528	-0.530	1.377	1.339	34.043	4.71	205	27.359	1027.6	70.6	0.036	1446.2	50
75	-0.475	-0.477	1.450	1.394	34.062	4.65	202	27.372	1027.7	69.3	0.054	1446.9	74
100	-0.417	-0.420	1.528	1.453	34.085	4.64	202	27.387	1027.9	67.8	0.071	1447.6	99
125	-0.397	-0.401	1.567	1.473	34.094	4.64	202	27.394	1028.0	67.1	0.088	1448.1	124
150	-0.408	-0.412	1.575	1.462	34.088	4.65	202	27.390	1028.1	67.5	0.105	1448.5	148
175	-0.388	-0.393	1.615	1.483	34.095	4.63	201	27.395	1028.2	67.0	0.122	1449.0	173
200	-0.393	-0.400	1.628	1.477	34.091	4.64	202	27.392	1028.3	67.2	0.138	1449.3	198
225	-0.383	-0.391	1.656	1.487	34.096	4.64	202	27.395	1028.5	66.8	0.155	1449.8	222
250	-0.269	-0.278	1.792	1.604	34.138	4.61	200	27.424	1028.6	64.1	0.172	1450.8	247
275	-0.219	-0.229	1.862	1.655	34.158	4.59	200	27.438	1028.7	62.8	0.187	1451.5	272
300	-0.181	-0.192	1.920	1.694	34.176	4.59	199	27.450	1028.9	61.6	0.203	1452.1	297
325	-0.077	-0.088	2.045	1.801	34.215	4.56	198	27.477	1029.0	59.2	0.218	1453.0	321
350	0.004	-0.009	2.146	1.883	34.242	4.52	197	27.494	1029.2	57.6	0.233	1453.8	346
375	0.011	-0.003	2.173	1.890	34.244	4.52	197	27.496	1029.3	57.4	0.247	1454.3	371
400	0.101	0.085	2.283	1.982	34.277	4.50	196	27.518	1029.4	55.4	0.261	1455.2	395
425	0.143	0.126	2.344	2.024	34.293	4.49	195	27.529	1029.5	54.5	0.275	1455.8	420
450	0.224	0.205	2.446	2.107	34.325	4.48	195	27.550	1029.7	52.5	0.288	1456.6	445
475	0.315	0.296	2.559	2.202	34.370	4.50	196	27.582	1029.8	49.7	0.301	1457.5	469
500	0.353	0.332	2.616	2.240	34.389	4.51	196	27.595	1030.0	48.6	0.313	1458.1	494
550	0.521	0.497	2.827	2.413	34.466	4.52	197	27.647	1030.2	43.9	0.336	1459.8	543
600	0.814	0.786	3.163	2.711	34.551	4.39	191	27.698	1030.5	39.7	0.357	1462.0	593
650	0.996	0.964	3.385	2.896	34.605	4.32	188	27.730	1030.8	37.1	0.377	1463.8	642
700	1.112	1.076	3.541	3.013	34.641	4.28	186	27.752	1031.0	35.4	0.395	1465.2	691
750	1.176	1.138	3.644	3.080	34.667	4.27	185	27.769	1031.3	34.1	0.412	1466.3	741
800	1.202	1.160	3.709	3.106	34.684	4.26	185	27.780	1031.5	33.2	0.429	1467.3	790


Velocity (cm/s)
-20
0
20
V
Potential Temperature (°C)
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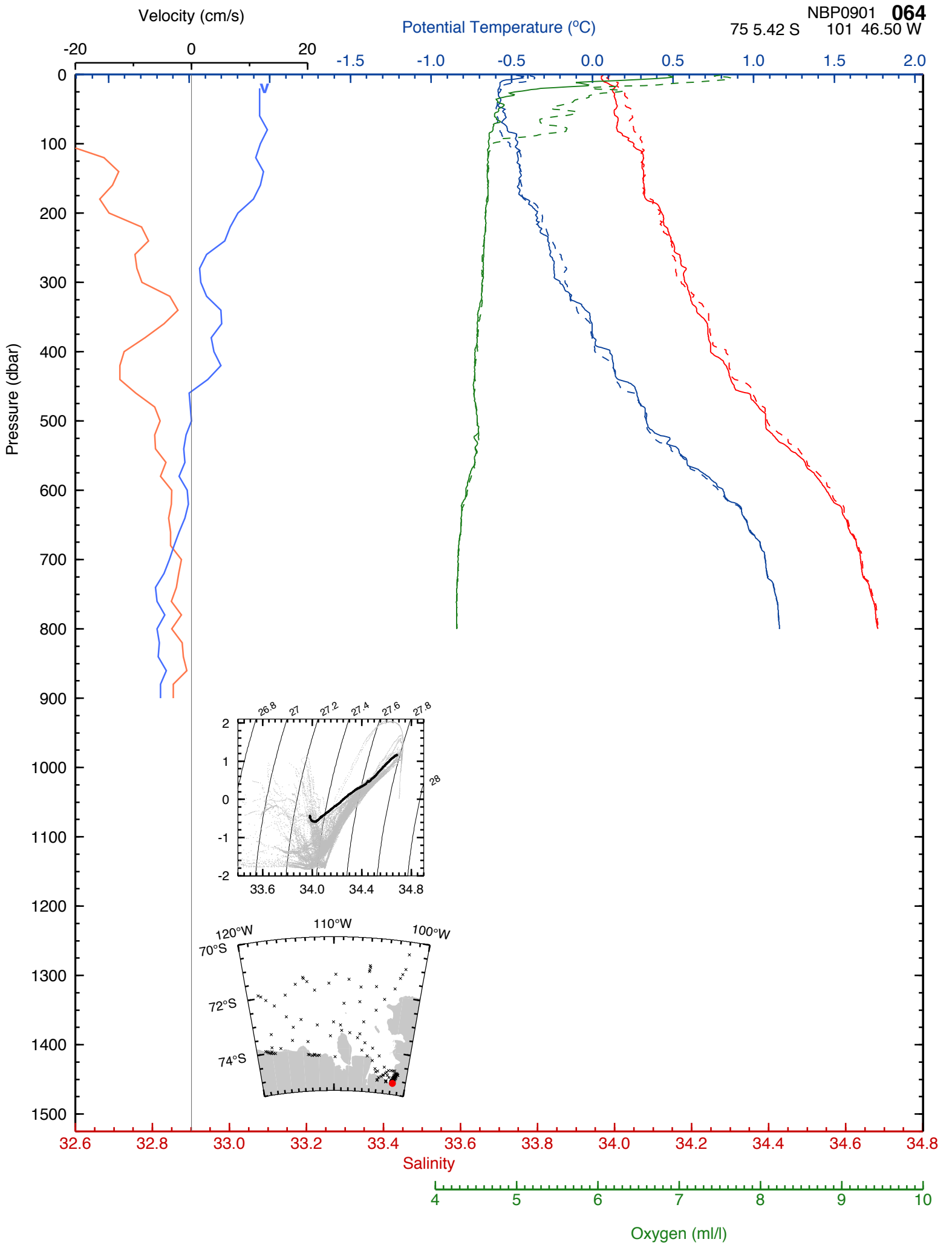
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 063
75 5.41 S
101 46.49 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**064D**	2009/01/25	03:00	-75.0904	-101.7750	800	150	940		5.2	122	-3.2	980.7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.474	-0.474	1.390	1.390	33.982	6.86	298	88.0	27.307	1027.3	75.7	0.001	1445.6			1
25	-0.584	-0.584	1.302	1.283	34.023	4.98	217	93.8	27.345	1027.5	72.0	0.018	1445.5	0.273	295	25
50	-0.541	-0.543	1.364	1.326	34.043	4.77	208	94.4	27.360	1027.6	70.6	0.036	1446.2	0.273	295	50
75	-0.531	-0.533	1.393	1.337	34.048	4.72	205	94.5	27.363	1027.7	70.2	0.054	1446.6	0.282	297	74
100	-0.462	-0.466	1.482	1.407	34.070	4.66	202	94.7	27.378	1027.9	68.7	0.071	1447.4	0.253	298	99
125	-0.459	-0.463	1.504	1.410	34.071	4.65	202	94.7	27.378	1028.0	68.6	0.088	1447.8	0.185	308	124
150	-0.450	-0.455	1.532	1.419	34.074	4.64	202	94.7	27.380	1028.1	68.4	0.106	1448.2	0.178	313	148
175	-0.441	-0.446	1.561	1.429	34.079	4.65	202	94.8	27.384	1028.2	67.9	0.123	1448.7	0.188	307	173
200	-0.337	-0.344	1.685	1.535	34.118	4.61	201	94.9	27.411	1028.4	65.4	0.139	1449.7	0.166	300	198
225	-0.316	-0.324	1.726	1.556	34.127	4.61	201	94.8	27.417	1028.5	64.8	0.155	1450.2	0.107	308	222
250	-0.257	-0.266	1.805	1.616	34.150	4.60	200	94.9	27.433	1028.6	63.3	0.171	1450.9	0.096	300	247
275	-0.230	-0.240	1.851	1.644	34.158	4.59	200	95.0	27.439	1028.7	62.7	0.187	1451.4	0.097	281	272
300	-0.192	-0.202	1.909	1.683	34.173	4.58	199	95.0	27.448	1028.9	61.8	0.203	1452.0	0.088	280	297
325	-0.120	-0.132	2.002	1.757	34.206	4.57	198	95.1	27.472	1029.0	59.6	0.218	1452.8	0.046	307	321
350	-0.001	-0.014	2.142	1.878	34.245	4.53	197	95.0	27.497	1029.2	57.3	0.232	1453.8	0.060	330	346
375	0.016	0.002	2.177	1.895	34.249	4.51	196	94.9	27.500	1029.3	57.1	0.247	1454.3	0.079	305	371
400	0.124	0.108	2.306	2.005	34.290	4.49	195	94.8	27.527	1029.4	54.6	0.261	1455.3	0.114	290	395
425	0.150	0.133	2.352	2.032	34.299	4.48	195	94.9	27.533	1029.5	54.0	0.274	1455.8	0.133	292	420
450	0.277	0.259	2.501	2.162	34.352	4.47	194	94.9	27.569	1029.7	50.9	0.288	1456.9	0.119	279	445
475	0.314	0.294	2.558	2.201	34.374	4.50	195	95.7	27.585	1029.8	49.4	0.300	1457.5	0.081	268	469
500	0.356	0.335	2.620	2.243	34.396	4.51	196	96.4	27.601	1030.0	48.0	0.312	1458.1	0.057	269	494
550	0.579	0.555	2.887	2.472	34.489	4.49	195	97.7	27.663	1030.3	42.5	0.335	1460.1	0.060	258	543
600	0.838	0.810	3.187	2.735	34.563	4.38	190	97.8	27.706	1030.5	39.0	0.355	1462.2	0.043	255	593
650	0.995	0.963	3.384	2.895	34.609	4.31	187	97.7	27.734	1030.8	36.8	0.374	1463.8	0.041	253	642
700	1.107	1.071	3.535	3.008	34.643	4.28	186	97.8	27.753	1031.0	35.3	0.392	1465.1	0.044	215	691
750	1.172	1.134	3.640	3.076	34.669	4.26	185	97.8	27.771	1031.3	33.9	0.409	1466.3	0.067	203	741
800	1.202	1.160	3.708	3.106	34.684	4.26	185	97.9	27.780	1031.5	33.2	0.426	1467.3	0.059	205	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	064U	2009/01/25	03:34	-75.0902	-101.7747	800	150	940	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.390	-0.390	1.475	1.474	33.971	7.50	326	27.294	1027.3	76.9	0.001	1446.0	1
25	-0.573	-0.574	1.310	1.292	33.996	6.25	272	27.323	1027.4	74.1	0.019	1445.5	25
50	-0.593	-0.594	1.310	1.272	34.002	5.46	237	27.329	1027.6	73.5	0.037	1445.9	50
75	-0.571	-0.573	1.351	1.294	34.006	5.52	240	27.330	1027.7	73.2	0.056	1446.4	74
100	-0.508	-0.512	1.435	1.359	34.050	4.70	204	27.363	1027.8	70.1	0.074	1447.1	99
125	-0.446	-0.450	1.517	1.423	34.072	4.65	202	27.379	1028.0	68.5	0.091	1447.9	124
150	-0.440	-0.445	1.542	1.430	34.075	4.65	202	27.381	1028.1	68.3	0.108	1448.3	148
175	-0.431	-0.436	1.571	1.439	34.077	4.65	202	27.382	1028.2	68.1	0.125	1448.8	173
200	-0.316	-0.322	1.707	1.556	34.122	4.62	201	27.413	1028.4	65.2	0.142	1449.8	198
225	-0.277	-0.285	1.765	1.596	34.139	4.62	201	27.425	1028.5	64.1	0.158	1450.4	222
250	-0.222	-0.231	1.840	1.652	34.156	4.59	199	27.436	1028.6	63.0	0.174	1451.0	247
275	-0.176	-0.186	1.906	1.699	34.173	4.58	199	27.448	1028.8	61.9	0.189	1451.7	272
300	-0.158	-0.169	1.943	1.717	34.183	4.58	199	27.455	1028.9	61.2	0.205	1452.2	297
325	-0.125	-0.137	1.996	1.751	34.198	4.58	199	27.466	1029.0	60.2	0.220	1452.8	321
350	-0.043	-0.056	2.098	1.835	34.227	4.55	198	27.485	1029.1	58.4	0.235	1453.6	346
375	0.007	-0.007	2.169	1.886	34.243	4.52	197	27.495	1029.3	57.5	0.249	1454.3	371
400	0.031	0.016	2.212	1.910	34.250	4.52	196	27.500	1029.4	57.1	0.263	1454.8	395
425	0.149	0.132	2.351	2.031	34.294	4.49	195	27.529	1029.5	54.4	0.277	1455.8	420
450	0.189	0.171	2.410	2.072	34.311	4.49	195	27.541	1029.7	53.4	0.291	1456.4	445
475	0.314	0.294	2.558	2.200	34.367	4.49	195	27.579	1029.8	49.9	0.304	1457.5	469
500	0.356	0.335	2.620	2.244	34.392	4.51	196	27.597	1030.0	48.4	0.316	1458.1	494
550	0.573	0.549	2.880	2.466	34.478	4.49	195	27.654	1030.2	43.4	0.339	1460.0	543
600	0.809	0.781	3.158	2.706	34.549	4.40	191	27.697	1030.5	39.7	0.360	1462.0	593
650	0.996	0.964	3.385	2.896	34.605	4.32	188	27.730	1030.8	37.1	0.379	1463.8	642
700	1.107	1.072	3.536	3.009	34.639	4.28	186	27.750	1031.0	35.5	0.397	1465.1	691
750	1.173	1.135	3.641	3.076	34.666	4.27	185	27.768	1031.3	34.2	0.414	1466.3	741
800	1.202	1.160	3.708	3.106	34.684	4.26	185	27.780	1031.5	33.2	0.431	1467.3	790


Velocity (cm/s)
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Potential Temperature (°C)
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1.5
2.0
NBP0901 064
75 5.42 S
101 46.50 W
Pressure (dbar)
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100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
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26.8
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27.2
27.4
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27.8
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-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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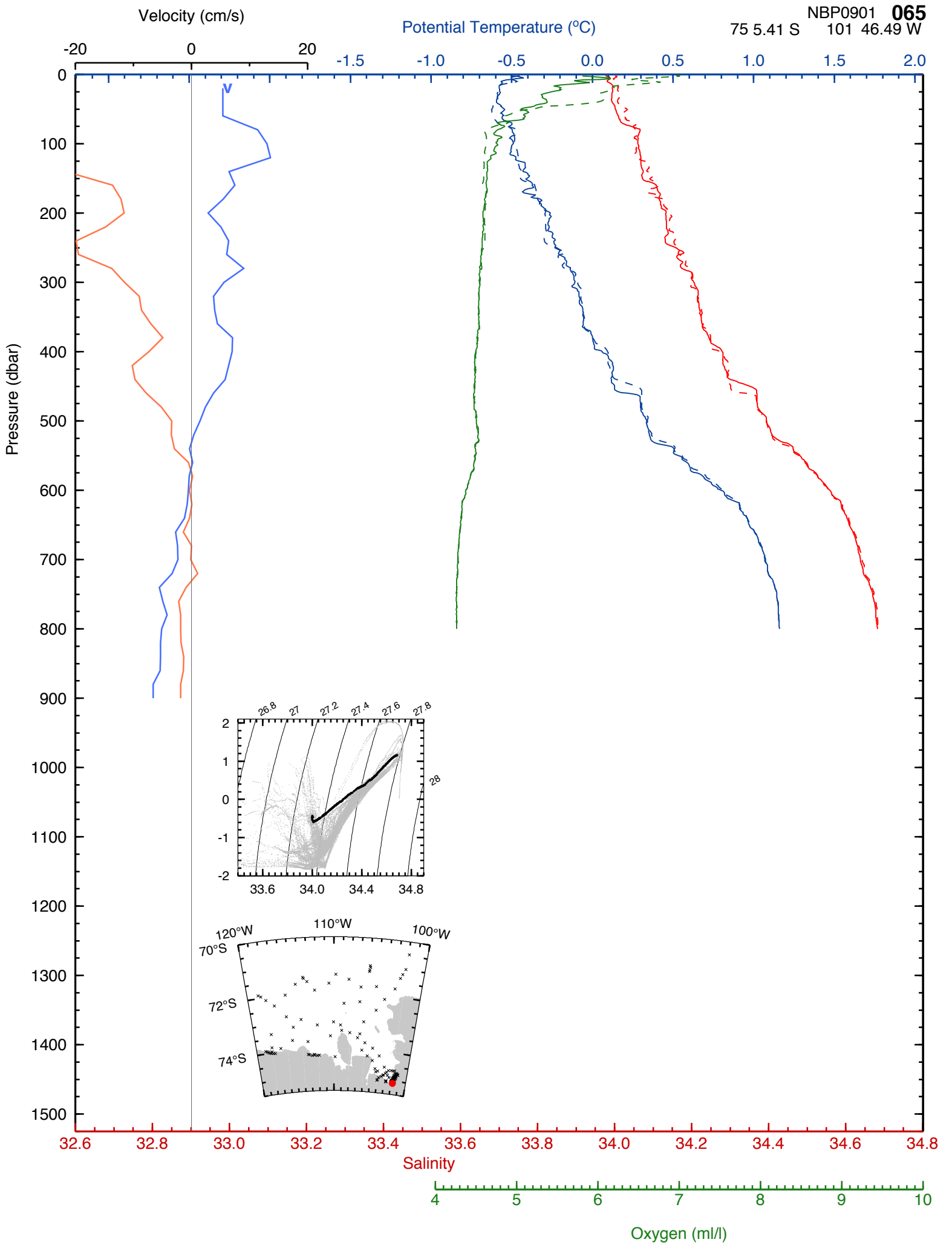
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**065D**	2009/01/25	04:00	-75.0902	-101.7748	800	149	939		4.8	125	-3.4	980.9

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.508	-0.509	1.358	1.357	34.001	5.81	252	88.8	27.324	1027.3	74.1	0.001	1445.5			2
25	-0.571	-0.572	1.313	1.294	34.012	5.43	236	92.4	27.336	1027.5	72.9	0.018	1445.6	0.294	281	25
50	-0.545	-0.547	1.359	1.322	34.032	5.05	220	93.6	27.351	1027.6	71.4	0.037	1446.1	0.294	281	50
75	-0.512	-0.514	1.412	1.356	34.049	4.85	211	94.3	27.363	1027.7	70.2	0.054	1446.7	0.318	287	74
100	-0.488	-0.491	1.456	1.380	34.059	4.76	207	94.4	27.370	1027.8	69.4	0.072	1447.2	0.321	294	99
125	-0.450	-0.454	1.514	1.420	34.078	4.65	202	94.6	27.384	1028.0	68.1	0.089	1447.8	0.272	297	124
150	-0.404	-0.408	1.580	1.467	34.092	4.64	202	94.8	27.393	1028.1	67.2	0.106	1448.5	0.197	292	148
175	-0.352	-0.357	1.652	1.520	34.112	4.63	201	94.8	27.407	1028.2	65.8	0.123	1449.2	0.141	296	173
200	-0.255	-0.262	1.769	1.619	34.146	4.58	199	94.8	27.430	1028.4	63.7	0.139	1450.1	0.121	285	198
225	-0.270	-0.278	1.772	1.603	34.142	4.59	200	94.8	27.427	1028.5	63.9	0.155	1450.4	0.163	289	222
250	-0.223	-0.232	1.839	1.651	34.157	4.58	199	94.9	27.437	1028.6	62.9	0.170	1451.0	0.207	288	247
275	-0.154	-0.164	1.929	1.722	34.184	4.56	198	94.9	27.456	1028.8	61.2	0.186	1451.8	0.180	297	272
300	-0.099	-0.110	2.003	1.777	34.204	4.54	197	94.9	27.469	1028.9	59.9	0.201	1452.5	0.134	297	297
325	-0.067	-0.079	2.055	1.810	34.216	4.54	197	94.9	27.478	1029.0	59.1	0.216	1453.1	0.098	293	321
350	-0.042	-0.055	2.099	1.836	34.228	4.54	197	95.0	27.486	1029.1	58.3	0.231	1453.6	0.091	297	346
375	0.008	-0.007	2.169	1.887	34.248	4.52	196	95.1	27.499	1029.3	57.1	0.245	1454.3	0.085	315	371
400	0.075	0.059	2.257	1.955	34.270	4.50	196	94.9	27.514	1029.4	55.8	0.259	1455.0	0.098	316	395
425	0.146	0.129	2.348	2.028	34.297	4.48	195	95.1	27.532	1029.5	54.2	0.273	1455.8	0.120	302	420
450	0.155	0.137	2.376	2.037	34.301	4.49	195	94.9	27.535	1029.7	53.9	0.286	1456.2	0.107	300	445
475	0.318	0.298	2.562	2.204	34.369	4.48	195	95.3	27.581	1029.8	49.8	0.299	1457.5	0.073	295	469
500	0.357	0.336	2.621	2.244	34.395	4.51	196	96.2	27.599	1030.0	48.1	0.312	1458.1	0.043	294	494
550	0.560	0.536	2.867	2.453	34.480	4.48	195	97.3	27.657	1030.3	43.1	0.335	1460.0	0.025	269	543
600	0.826	0.798	3.175	2.724	34.560	4.38	190	97.8	27.705	1030.5	39.1	0.355	1462.1	0.005	190	593
650	1.004	0.972	3.393	2.904	34.612	4.31	187	97.8	27.735	1030.8	36.6	0.374	1463.8	0.014	195	642
700	1.109	1.073	3.538	3.010	34.643	4.28	186	97.8	27.754	1031.0	35.2	0.392	1465.1	0.023	181	691
750	1.182	1.143	3.650	3.086	34.673	4.26	185	97.8	27.773	1031.3	33.7	0.409	1466.3	0.056	190	741
800	1.200	1.159	3.707	3.104	34.683	4.26	185	97.9	27.780	1031.5	33.2	0.426	1467.3	0.050	202	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	065U	2009/01/25	04:33	-75.0904	-101.7750	800	149	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.453	-0.453	1.412	1.411	33.977	6.96	302	27.302	1027.3	76.1	0.001	1445.7	1
25	-0.585	-0.586	1.299	1.280	33.995	6.09	265	27.322	1027.4	74.2	0.019	1445.5	25
50	-0.623	-0.624	1.280	1.242	34.002	5.18	225	27.330	1027.6	73.4	0.037	1445.7	50
75	-0.528	-0.531	1.395	1.339	34.043	4.72	205	27.359	1027.7	70.6	0.055	1446.6	74
100	-0.478	-0.481	1.466	1.390	34.060	4.62	201	27.371	1027.8	69.4	0.073	1447.3	99
125	-0.454	-0.458	1.509	1.415	34.069	4.60	200	27.376	1028.0	68.8	0.090	1447.8	124
150	-0.440	-0.445	1.542	1.429	34.072	4.60	200	27.379	1028.1	68.5	0.107	1448.3	148
175	-0.330	-0.336	1.673	1.542	34.118	4.62	201	27.411	1028.2	65.5	0.124	1449.3	173
200	-0.286	-0.293	1.737	1.587	34.133	4.61	200	27.421	1028.4	64.5	0.140	1449.9	198
225	-0.279	-0.287	1.763	1.594	34.137	4.61	200	27.424	1028.5	64.2	0.156	1450.3	222
250	-0.211	-0.220	1.851	1.663	34.160	4.59	199	27.439	1028.6	62.7	0.172	1451.1	247
275	-0.178	-0.188	1.904	1.697	34.171	4.57	199	27.446	1028.8	62.1	0.188	1451.7	272
300	-0.082	-0.092	2.021	1.795	34.206	4.55	198	27.470	1028.9	59.8	0.203	1452.6	297
325	-0.059	-0.071	2.063	1.818	34.215	4.54	197	27.477	1029.0	59.2	0.218	1453.1	321
350	-0.038	-0.051	2.104	1.840	34.225	4.53	197	27.483	1029.1	58.6	0.232	1453.6	346
375	0.003	-0.011	2.164	1.882	34.242	4.53	197	27.495	1029.3	57.6	0.247	1454.2	371
400	0.111	0.095	2.293	1.992	34.280	4.50	195	27.520	1029.4	55.3	0.261	1455.2	395
425	0.126	0.109	2.328	2.008	34.287	4.50	195	27.525	1029.5	54.8	0.275	1455.7	420
450	0.291	0.273	2.515	2.176	34.352	4.48	195	27.569	1029.7	50.9	0.288	1456.9	445
475	0.324	0.304	2.568	2.211	34.370	4.48	195	27.581	1029.8	49.7	0.301	1457.5	469
500	0.362	0.341	2.626	2.250	34.394	4.51	196	27.598	1030.0	48.2	0.313	1458.1	494
550	0.581	0.556	2.887	2.473	34.482	4.49	195	27.657	1030.3	43.1	0.336	1460.1	543
600	0.841	0.812	3.189	2.738	34.559	4.38	190	27.703	1030.5	39.3	0.357	1462.2	593
650	1.009	0.977	3.398	2.909	34.609	4.31	187	27.733	1030.8	36.9	0.376	1463.8	642
700	1.104	1.069	3.533	3.006	34.638	4.28	186	27.750	1031.0	35.6	0.394	1465.1	691
750	1.182	1.144	3.651	3.086	34.670	4.26	185	27.771	1031.3	33.9	0.411	1466.3	741
800	1.200	1.159	3.707	3.104	34.683	4.26	185	27.780	1031.5	33.2	0.428	1467.3	790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1.5
2.0
NBP0901 065
75 5.41 S
101 46.49 W
Pressure (dbar)
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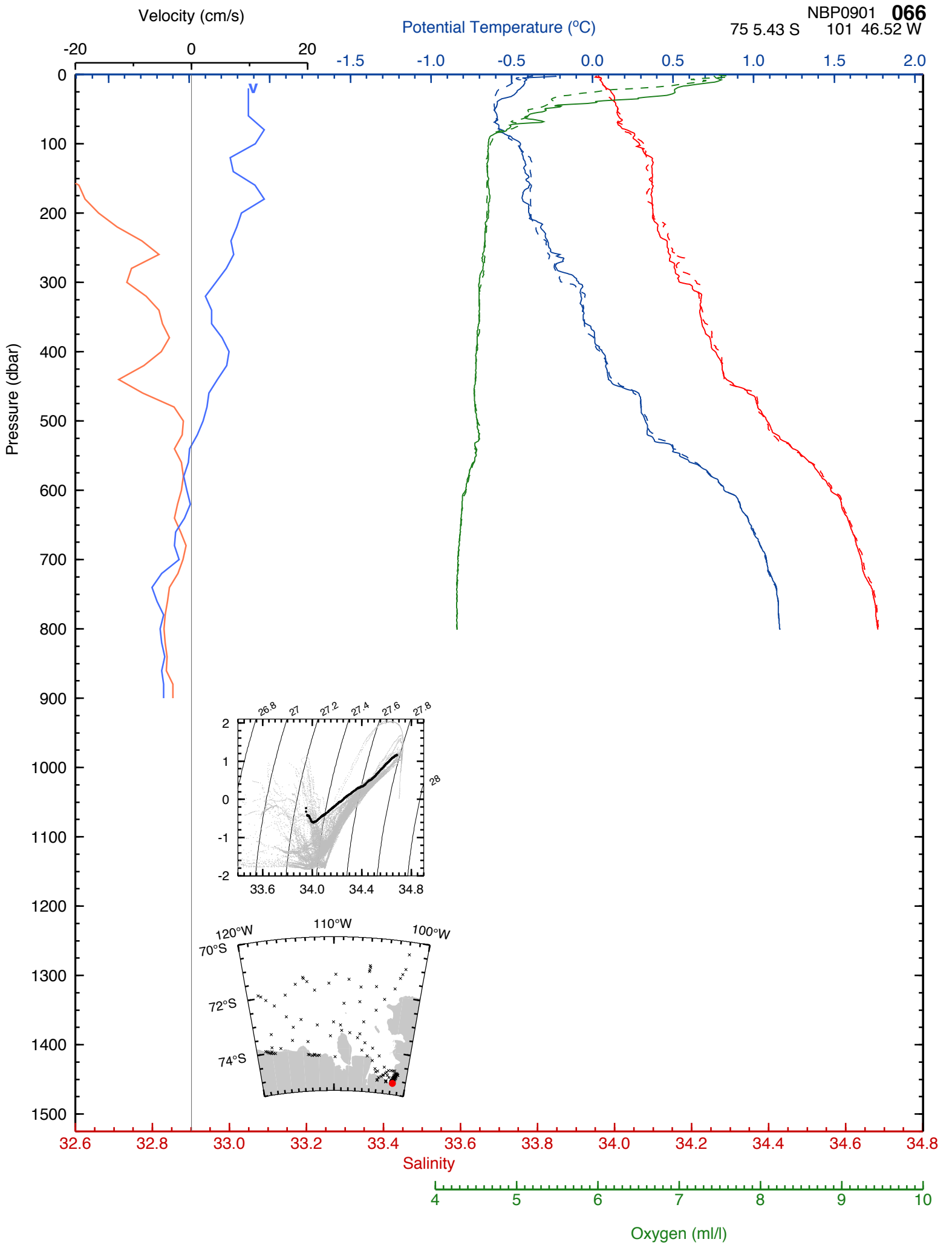
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**066D**	2009/01/25	05:00	-75.0905	-101.7753	801	147	938		5.2	114	-3.8	981.0

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.230	-0.231	1.633	1.632	33.951	7.42	323	85.0	27.271	1027.3	79.1	0.002	1446.7			2
25	-0.468	-0.469	1.415	1.396	33.980	6.95	302	87.3	27.305	1027.4	75.8	0.019	1446.0	0.307	289	25
50	-0.604	-0.605	1.300	1.262	34.008	5.35	232	93.2	27.334	1027.6	73.0	0.038	1445.8	0.307	289	50
75	-0.579	-0.581	1.344	1.287	34.023	4.93	214	94.1	27.345	1027.7	71.9	0.056	1446.4	0.353	289	74
100	-0.444	-0.447	1.501	1.425	34.075	4.65	202	94.7	27.381	1027.9	68.4	0.074	1447.5	0.349	288	99
125	-0.416	-0.420	1.548	1.454	34.086	4.65	202	94.7	27.389	1028.0	67.6	0.091	1448.0	0.280	284	124
150	-0.399	-0.404	1.584	1.471	34.093	4.66	202	94.7	27.393	1028.1	67.1	0.108	1448.5	0.234	292	148
175	-0.428	-0.434	1.573	1.442	34.083	4.67	203	94.7	27.387	1028.2	67.7	0.124	1448.8	0.222	303	173
200	-0.386	-0.393	1.635	1.485	34.100	4.65	202	94.7	27.398	1028.4	66.6	0.141	1449.4	0.186	299	198
225	-0.298	-0.306	1.744	1.574	34.133	4.61	201	94.8	27.422	1028.5	64.4	0.157	1450.3	0.145	302	222
250	-0.259	-0.268	1.802	1.614	34.148	4.60	200	94.9	27.431	1028.6	63.4	0.173	1450.9	0.103	314	247
275	-0.219	-0.229	1.862	1.655	34.160	4.59	200	94.9	27.440	1028.7	62.6	0.189	1451.5	0.108	309	272
300	-0.076	-0.087	2.027	1.801	34.213	4.54	197	94.9	27.476	1028.9	59.3	0.204	1452.6	0.119	292	297
325	-0.056	-0.068	2.066	1.821	34.220	4.54	197	95.0	27.480	1029.0	58.9	0.219	1453.1	0.081	288	321
350	-0.044	-0.057	2.098	1.834	34.226	4.54	197	95.1	27.485	1029.1	58.5	0.234	1453.6	0.065	303	346
375	0.028	0.013	2.189	1.907	34.253	4.52	196	95.0	27.502	1029.3	56.9	0.248	1454.4	0.063	315	371
400	0.076	0.060	2.257	1.956	34.270	4.50	196	95.0	27.514	1029.4	55.8	0.262	1455.0	0.079	322	395
425	0.105	0.089	2.306	1.986	34.281	4.50	195	95.0	27.521	1029.5	55.1	0.276	1455.6	0.102	307	420
450	0.184	0.166	2.406	2.067	34.315	4.48	195	94.8	27.545	1029.7	53.0	0.290	1456.4	0.123	290	445
475	0.321	0.301	2.565	2.207	34.372	4.49	195	95.4	27.583	1029.8	49.6	0.302	1457.5	0.066	300	469
500	0.349	0.328	2.613	2.237	34.392	4.51	196	96.3	27.597	1030.0	48.3	0.315	1458.1	0.029	321	494
550	0.565	0.540	2.872	2.458	34.483	4.50	196	97.5	27.659	1030.3	42.9	0.338	1460.0	0.027	262	543
600	0.844	0.816	3.193	2.742	34.565	4.37	190	97.8	27.707	1030.5	38.9	0.358	1462.2	0.019	238	593
650	1.013	0.981	3.403	2.914	34.615	4.31	187	97.8	27.737	1030.8	36.5	0.376	1463.8	0.031	244	642
700	1.115	1.079	3.544	3.017	34.645	4.28	186	97.8	27.755	1031.0	35.1	0.394	1465.2	0.028	208	691
750	1.181	1.143	3.650	3.085	34.675	4.26	185	97.8	27.774	1031.3	33.6	0.412	1466.3	0.078	209	741
800	1.203	1.161	3.709	3.107	34.684	4.27	185	97.9	27.781	1031.5	33.2	0.428	1467.3	0.069	222	790
801	1.203	1.161	3.710	3.107	34.684	4.26	185	97.9	27.780	1031.5	33.2	0.429	1467.3	0.069	222	791

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	066U	2009/01/25	05:35	-75.0913	-101.7763	801	147	938	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.380	-0.380	1.484	1.483	33.959	7.49	325	27.284	1027.3	77.8	0.001	1446.0	1
25	-0.591	-0.592	1.292	1.273	33.991	5.97	260	27.319	1027.4	74.4	0.019	1445.5	25
50	-0.605	-0.607	1.298	1.260	34.009	5.17	225	27.334	1027.6	72.9	0.038	1445.8	50
75	-0.597	-0.599	1.326	1.269	34.015	5.01	218	27.339	1027.7	72.4	0.056	1446.3	74
100	-0.469	-0.472	1.475	1.400	34.064	4.68	203	27.373	1027.9	69.2	0.073	1447.3	99
125	-0.374	-0.378	1.590	1.496	34.099	4.65	202	27.397	1028.0	66.9	0.090	1448.2	124
150	-0.379	-0.384	1.604	1.491	34.097	4.63	201	27.396	1028.1	66.9	0.107	1448.6	148
175	-0.383	-0.389	1.619	1.487	34.095	4.64	202	27.395	1028.2	67.0	0.124	1449.0	173
200	-0.374	-0.380	1.648	1.497	34.099	4.63	201	27.398	1028.4	66.6	0.140	1449.5	198
225	-0.341	-0.348	1.700	1.530	34.112	4.63	201	27.406	1028.5	65.8	0.157	1450.0	222
250	-0.274	-0.283	1.787	1.599	34.138	4.61	200	27.424	1028.6	64.1	0.173	1450.8	247
275	-0.225	-0.235	1.856	1.648	34.156	4.60	200	27.437	1028.7	62.9	0.189	1451.4	272
300	-0.176	-0.187	1.924	1.698	34.170	4.58	199	27.445	1028.9	62.1	0.205	1452.1	297
325	-0.039	-0.051	2.083	1.839	34.224	4.54	197	27.482	1029.0	58.7	0.220	1453.2	321
350	-0.041	-0.054	2.100	1.837	34.224	4.54	197	27.483	1029.1	58.7	0.234	1453.6	346
375	-0.008	-0.022	2.153	1.871	34.238	4.53	197	27.492	1029.3	57.8	0.249	1454.2	371
400	0.064	0.049	2.245	1.944	34.261	4.51	196	27.507	1029.4	56.4	0.263	1455.0	395
425	0.113	0.096	2.314	1.994	34.280	4.50	196	27.520	1029.5	55.3	0.277	1455.6	420
450	0.205	0.186	2.427	2.088	34.316	4.49	195	27.544	1029.7	53.1	0.291	1456.5	445
475	0.319	0.299	2.563	2.205	34.369	4.49	195	27.581	1029.8	49.8	0.304	1457.5	469
500	0.363	0.342	2.627	2.250	34.396	4.52	196	27.600	1030.0	48.1	0.316	1458.2	494
550	0.596	0.571	2.903	2.489	34.488	4.50	195	27.660	1030.3	42.8	0.339	1460.2	543
600	0.851	0.822	3.200	2.748	34.562	4.38	190	27.704	1030.5	39.1	0.359	1462.2	593
650	1.013	0.981	3.403	2.913	34.611	4.32	188	27.734	1030.8	36.8	0.378	1463.8	642
700	1.111	1.075	3.540	3.013	34.640	4.29	186	27.751	1031.0	35.5	0.396	1465.2	691
750	1.182	1.143	3.650	3.085	34.670	4.26	185	27.771	1031.3	33.9	0.413	1466.3	741
800	1.203	1.161	3.710	3.107	34.683	4.27	185	27.780	1031.5	33.3	0.430	1467.3	790
801	1.203	1.161	3.710	3.107	34.684	4.26	185	27.780	1031.5	33.2	0.430	1467.3	791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Pressure (dbar)
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34.0
34.4
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110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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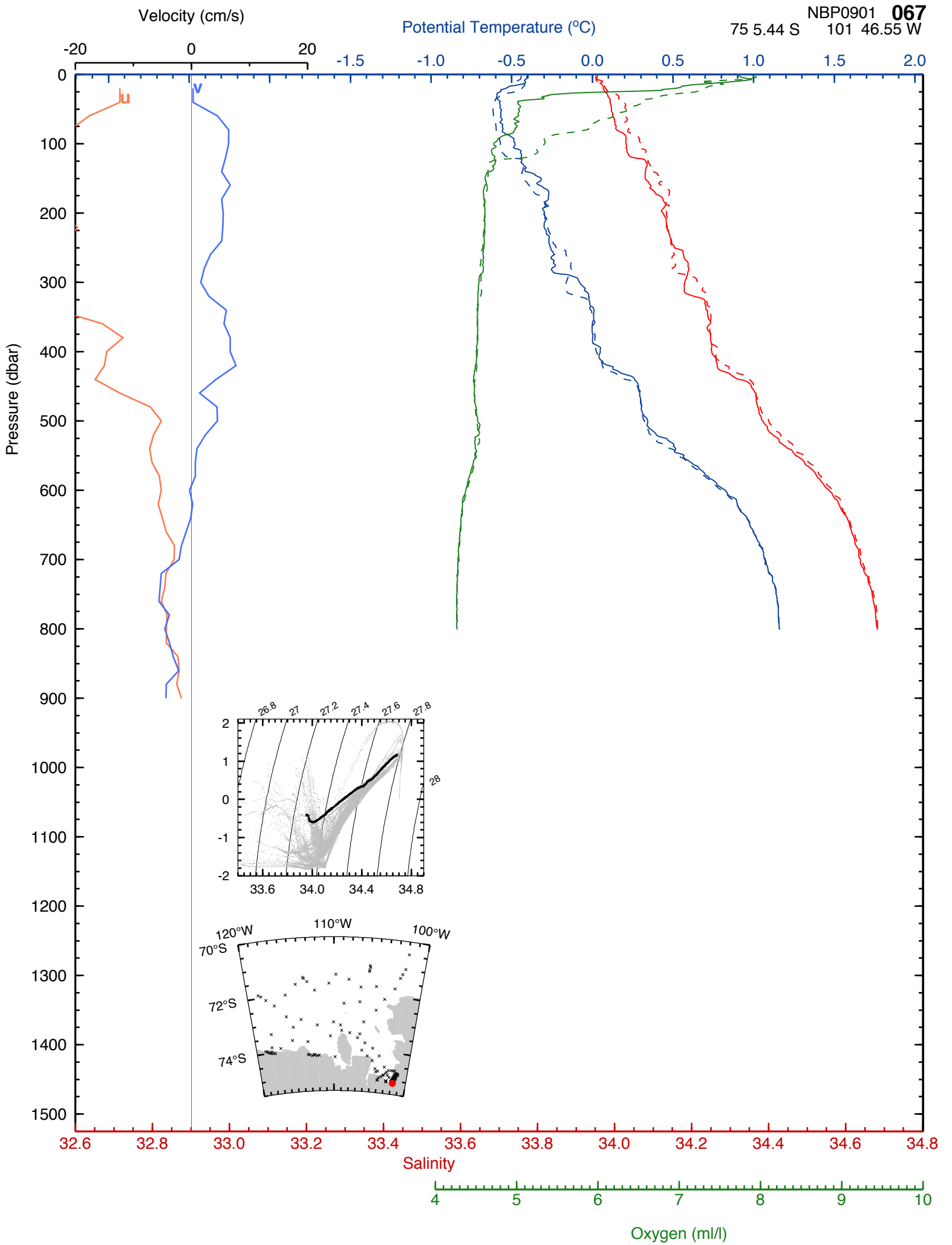
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**067D**	2009/01/25	06:00	-75.0907	-101.7759	801	148	939		4.0	134	-4.1	981.3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.405	-0.405	1.458	1.457	33.956	7.71	335	83.0	27.282	1027.3	78.0	0.001	1445.9			1
25	-0.572	-0.573	1.311	1.293	33.987	6.14	267	89.2	27.316	1027.4	74.8	0.019	1445.5	0.123	271	25
50	-0.566	-0.568	1.338	1.300	34.030	5.02	218	93.8	27.349	1027.6	71.5	0.037	1446.0	0.151	278	50
75	-0.557	-0.559	1.366	1.310	34.034	5.00	218	93.9	27.353	1027.7	71.1	0.055	1446.5	0.208	286	74
100	-0.478	-0.481	1.467	1.391	34.068	4.72	205	94.4	27.377	1027.9	68.8	0.073	1447.3	0.274	284	99
125	-0.435	-0.439	1.530	1.435	34.087	4.74	206	94.7	27.390	1028.0	67.5	0.090	1447.9	0.323	280	124
150	-0.313	-0.318	1.672	1.559	34.125	4.61	200	94.8	27.415	1028.1	65.1	0.106	1449.0	0.295	281	148
175	-0.266	-0.272	1.739	1.607	34.141	4.60	200	94.9	27.426	1028.3	64.0	0.123	1449.6	0.265	282	173
200	-0.291	-0.298	1.732	1.582	34.135	4.61	200	94.8	27.423	1028.4	64.3	0.139	1449.9	0.235	283	198
225	-0.280	-0.287	1.763	1.593	34.140	4.61	200	94.8	27.426	1028.5	64.0	0.155	1450.3	0.205	285	222
250	-0.251	-0.260	1.811	1.623	34.150	4.59	200	94.9	27.433	1028.6	63.3	0.171	1450.9	0.211	282	247
275	-0.220	-0.229	1.861	1.654	34.159	4.58	199	94.9	27.439	1028.7	62.7	0.186	1451.5	0.204	277	272
300	-0.068	-0.079	2.035	1.809	34.217	4.54	197	94.9	27.478	1028.9	59.1	0.202	1452.7	0.225	274	297
325	-0.009	-0.021	2.115	1.870	34.238	4.52	197	94.8	27.492	1029.0	57.8	0.216	1453.4	0.252	277	321
350	0.021	0.008	2.164	1.900	34.250	4.52	196	95.0	27.500	1029.2	57.0	0.231	1453.9	0.216	286	346
375	0.017	0.002	2.178	1.896	34.249	4.52	196	95.0	27.500	1029.3	57.1	0.245	1454.3	0.149	295	371
400	0.065	0.050	2.246	1.945	34.267	4.51	196	95.2	27.512	1029.4	56.0	0.259	1455.0	0.155	296	395
425	0.145	0.128	2.347	2.027	34.298	4.49	195	94.8	27.532	1029.5	54.1	0.273	1455.8	0.169	297	420
450	0.304	0.285	2.529	2.190	34.363	4.48	195	95.1	27.577	1029.7	50.2	0.286	1457.0	0.160	282	445
475	0.320	0.300	2.564	2.206	34.373	4.49	195	95.5	27.584	1029.8	49.5	0.298	1457.5	0.105	288	469
500	0.363	0.342	2.628	2.251	34.401	4.52	196	96.5	27.604	1030.0	47.7	0.311	1458.2	0.073	308	494
550	0.591	0.567	2.899	2.484	34.490	4.49	195	97.5	27.662	1030.3	42.6	0.333	1460.1	0.072	277	543
600	0.851	0.823	3.201	2.749	34.567	4.37	190	97.8	27.709	1030.5	38.8	0.353	1462.2	0.053	271	593
650	1.008	0.976	3.398	2.908	34.613	4.31	187	97.8	27.736	1030.8	36.6	0.372	1463.8	0.049	268	642
700	1.107	1.072	3.536	3.009	34.643	4.28	186	97.8	27.754	1031.0	35.2	0.390	1465.1	0.036	237	691
750	1.178	1.139	3.646	3.081	34.672	4.26	185	97.8	27.772	1031.3	33.8	0.407	1466.3	0.071	220	741
800	1.201	1.159	3.707	3.105	34.683	4.27	185	97.9	27.780	1031.5	33.2	0.424	1467.3	0.060	226	790
801	1.200	1.159	3.708	3.104	34.683	4.26	185	97.9	27.780	1031.5	33.3	0.424	1467.3	0.060	226	791

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	067U	2009/01/25	06:34	-75.0905	-101.7756	801	148	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	-0.439	-0.439	1.425	1.424	33.951	7.94	345	27.280	1027.3	78.2	0.002	1445.7	2
25	-0.480	-0.481	1.402	1.383	33.975	7.20	313	27.302	1027.4	76.1	0.019	1446.0	25
50	-0.615	-0.617	1.287	1.249	33.992	6.39	278	27.321	1027.6	74.2	0.038	1445.8	50
75	-0.596	-0.598	1.326	1.270	34.005	5.90	257	27.331	1027.7	73.2	0.056	1446.3	74
100	-0.568	-0.571	1.374	1.299	34.030	5.34	232	27.350	1027.8	71.3	0.074	1446.8	99
125	-0.427	-0.431	1.536	1.442	34.080	4.69	204	27.385	1028.0	68.0	0.092	1448.0	124
150	-0.428	-0.433	1.554	1.441	34.079	4.65	202	27.384	1028.1	68.0	0.109	1448.4	148
175	-0.322	-0.328	1.681	1.550	34.116	4.62	201	27.409	1028.2	65.7	0.126	1449.3	173
200	-0.298	-0.305	1.725	1.574	34.126	4.61	200	27.416	1028.4	65.0	0.142	1449.8	198
225	-0.264	-0.272	1.778	1.609	34.138	4.60	200	27.424	1028.5	64.2	0.158	1450.4	222
250	-0.214	-0.223	1.848	1.660	34.156	4.58	199	27.436	1028.6	63.1	0.174	1451.1	247
275	-0.124	-0.134	1.959	1.752	34.191	4.55	198	27.460	1028.8	60.8	0.189	1452.0	272
300	-0.151	-0.162	1.950	1.724	34.182	4.57	198	27.454	1028.9	61.3	0.205	1452.2	297
325	-0.016	-0.028	2.107	1.863	34.233	4.53	197	27.488	1029.0	58.2	0.220	1453.3	321
350	0.013	-0.000	2.156	1.892	34.243	4.52	196	27.495	1029.2	57.5	0.234	1453.9	346
375	0.030	0.015	2.191	1.909	34.249	4.52	196	27.499	1029.3	57.1	0.249	1454.4	371
400	0.040	0.025	2.220	1.919	34.252	4.52	196	27.501	1029.4	56.9	0.263	1454.8	395
425	0.089	0.073	2.290	1.970	34.270	4.51	196	27.513	1029.5	55.9	0.277	1455.5	420
450	0.296	0.278	2.520	2.182	34.355	4.48	195	27.570	1029.7	50.7	0.290	1457.0	445
475	0.322	0.302	2.566	2.208	34.369	4.49	195	27.581	1029.8	49.8	0.303	1457.5	469
500	0.343	0.322	2.607	2.230	34.384	4.51	196	27.592	1030.0	48.8	0.315	1458.0	494
550	0.548	0.523	2.854	2.440	34.471	4.50	196	27.650	1030.2	43.7	0.338	1459.9	543
600	0.836	0.808	3.185	2.733	34.556	4.38	191	27.701	1030.5	39.4	0.359	1462.2	593
650	1.011	0.979	3.400	2.911	34.610	4.31	187	27.733	1030.8	36.8	0.378	1463.8	642
700	1.104	1.069	3.533	3.006	34.638	4.29	186	27.750	1031.0	35.6	0.396	1465.1	691
750	1.179	1.140	3.647	3.082	34.669	4.27	185	27.770	1031.3	34.0	0.414	1466.3	741
800	1.200	1.159	3.707	3.104	34.682	4.27	185	27.779	1031.5	33.3	0.430	1467.2	790
801	1.200	1.159	3.708	3.104	34.683	4.26	185	27.780	1031.5	33.3	0.431	1467.3	791


Velocity (cm/s)
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0
20
u
v
Potential Temperature (°C)
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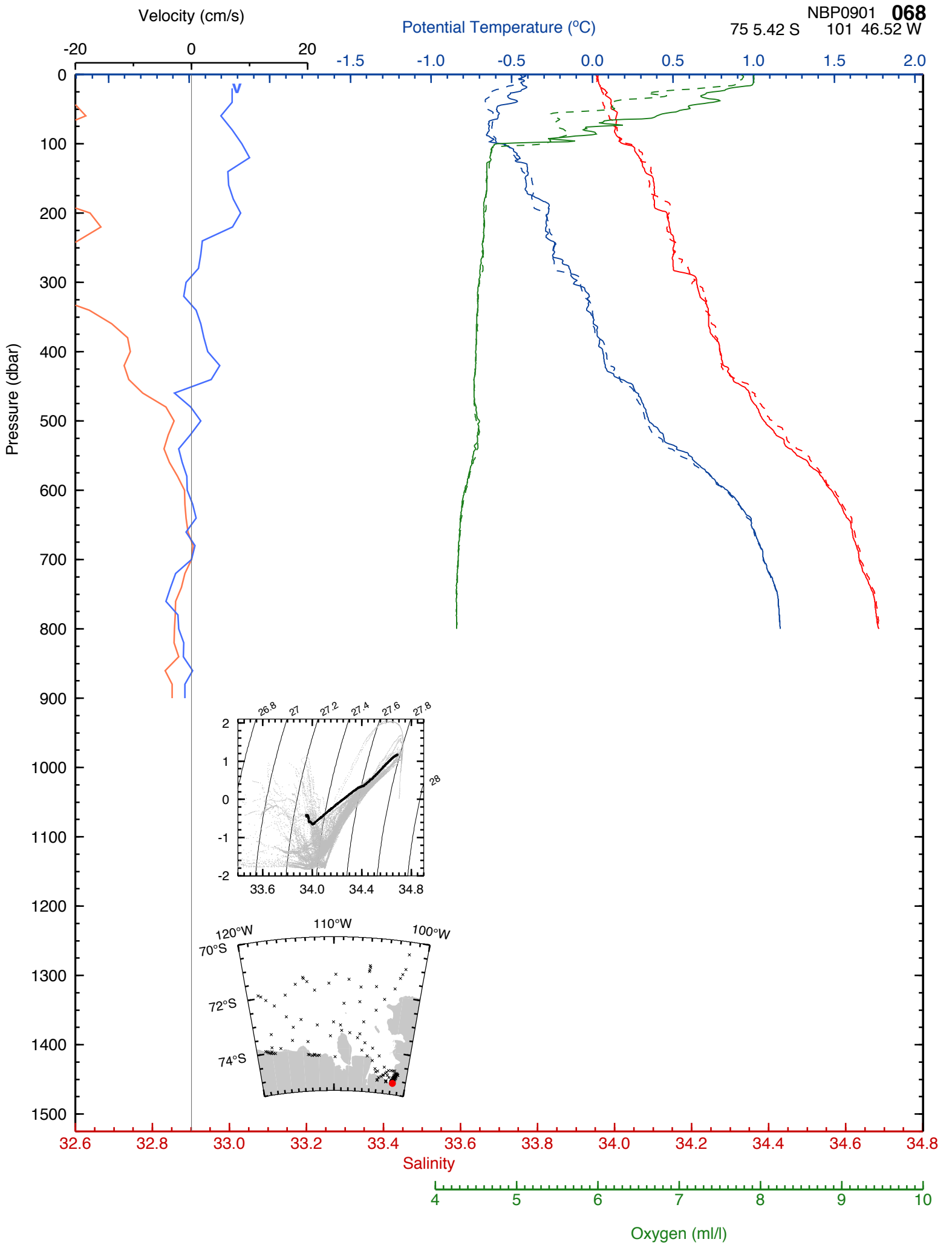
-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 067
75 5.44 S
101 46.55 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**068D**	2009/01/25	06:59	-75.0904	-101.7753	800	149	939		4.2	119	-4.4	981.6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.410	-0.410	1.453	1.452	33.952	7.92	344	82.3	27.279	1027.3	78.3	0.001	1445.8			1
25	-0.465	-0.466	1.417	1.398	33.968	7.42	323	84.9	27.295	1027.4	76.8	0.019	1446.0	0.216	289	25
50	-0.593	-0.595	1.308	1.270	33.974	7.10	308	88.1	27.306	1027.5	75.6	0.038	1445.8	0.203	287	50
75	-0.638	-0.640	1.283	1.227	33.999	6.01	261	91.3	27.328	1027.7	73.5	0.057	1446.1	0.235	286	74
100	-0.561	-0.564	1.382	1.306	34.036	4.76	207	93.7	27.355	1027.8	70.9	0.075	1446.9	0.331	285	99
125	-0.474	-0.478	1.489	1.395	34.068	4.67	203	94.7	27.377	1028.0	68.7	0.092	1447.7	0.389	284	124
150	-0.412	-0.416	1.571	1.458	34.089	4.64	202	94.7	27.391	1028.1	67.4	0.109	1448.5	0.342	281	148
175	-0.371	-0.377	1.632	1.500	34.106	4.62	201	94.8	27.403	1028.2	66.2	0.126	1449.1	0.267	285	173
200	-0.267	-0.274	1.756	1.606	34.142	4.59	200	94.9	27.427	1028.4	63.9	0.142	1450.0	0.202	295	198
225	-0.282	-0.290	1.760	1.591	34.136	4.60	200	94.9	27.423	1028.5	64.2	0.158	1450.3	0.174	292	222
250	-0.233	-0.242	1.829	1.640	34.153	4.58	199	95.0	27.435	1028.6	63.1	0.174	1451.0	0.209	275	247
275	-0.153	-0.163	1.930	1.723	34.185	4.56	198	95.0	27.456	1028.8	61.1	0.190	1451.8	0.242	273	272
300	-0.102	-0.113	2.001	1.775	34.202	4.54	197	95.0	27.468	1028.9	60.1	0.205	1452.5	0.266	269	297
325	-0.015	-0.027	2.108	1.863	34.237	4.52	196	94.9	27.491	1029.0	57.9	0.219	1453.3	0.240	267	321
350	0.019	0.006	2.162	1.898	34.252	4.51	196	94.9	27.502	1029.2	56.9	0.234	1453.9	0.165	274	346
375	0.044	0.030	2.207	1.924	34.262	4.51	196	94.9	27.509	1029.3	56.3	0.248	1454.5	0.124	279	371
400	0.080	0.065	2.262	1.961	34.274	4.50	195	94.9	27.517	1029.4	55.5	0.262	1455.0	0.110	284	395
425	0.104	0.087	2.305	1.985	34.281	4.49	195	94.9	27.521	1029.5	55.1	0.276	1455.6	0.126	293	420
450	0.271	0.253	2.495	2.156	34.350	4.47	194	95.1	27.568	1029.7	51.0	0.289	1456.8	0.107	279	445
475	0.332	0.312	2.576	2.218	34.378	4.49	195	95.5	27.587	1029.8	49.2	0.302	1457.6	0.068	259	469
500	0.372	0.351	2.637	2.261	34.411	4.54	197	96.5	27.611	1030.0	47.0	0.314	1458.2	0.037	289	494
550	0.625	0.600	2.933	2.519	34.502	4.46	194	97.6	27.670	1030.3	41.9	0.336	1460.3	0.050	245	543
600	0.863	0.835	3.213	2.761	34.571	4.36	190	97.8	27.711	1030.5	38.6	0.356	1462.3	0.018	244	593
650	1.017	0.985	3.406	2.917	34.616	4.31	187	97.9	27.738	1030.8	36.4	0.375	1463.9	0.012	301	642
700	1.093	1.058	3.522	2.995	34.638	4.28	186	97.8	27.750	1031.0	35.5	0.393	1465.1	0.003	164	691
750	1.186	1.147	3.654	3.090	34.676	4.26	185	97.8	27.775	1031.3	33.5	0.410	1466.4	0.040	205	741
800	1.206	1.164	3.712	3.110	34.686	4.26	185	97.9	27.782	1031.5	33.1	0.427	1467.3	0.036	232	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	068U	2009/01/25	07:33	-75.0905	-101.7753	800	149	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.447	-0.447	1.416	1.415	33.958	7.77	338	27.286	1027.3	77.7	0.001	1445.7	1
25	-0.626	-0.627	1.256	1.238	33.979	6.71	292	27.311	1027.4	75.2	0.019	1445.3	25
50	-0.651	-0.652	1.251	1.214	33.992	6.20	269	27.323	1027.6	74.0	0.038	1445.6	50
75	-0.620	-0.622	1.302	1.245	34.004	5.49	239	27.331	1027.7	73.2	0.056	1446.2	74
100	-0.575	-0.578	1.366	1.291	34.022	5.33	232	27.344	1027.8	71.9	0.074	1446.8	99
125	-0.456	-0.460	1.507	1.413	34.070	4.67	203	27.377	1028.0	68.7	0.092	1447.8	124
150	-0.372	-0.377	1.611	1.498	34.100	4.63	201	27.398	1028.1	66.7	0.109	1448.7	148
175	-0.368	-0.374	1.635	1.503	34.102	4.62	201	27.399	1028.2	66.5	0.125	1449.1	173
200	-0.279	-0.286	1.744	1.594	34.136	4.61	200	27.423	1028.4	64.3	0.142	1449.9	198
225	-0.258	-0.266	1.785	1.615	34.145	4.60	200	27.429	1028.5	63.7	0.158	1450.5	222
250	-0.230	-0.239	1.832	1.644	34.152	4.59	199	27.434	1028.6	63.2	0.174	1451.0	247
275	-0.226	-0.236	1.854	1.647	34.152	4.58	199	27.433	1028.7	63.2	0.190	1451.4	272
300	-0.068	-0.079	2.035	1.809	34.213	4.54	197	27.475	1028.9	59.4	0.205	1452.7	297
325	-0.018	-0.030	2.104	1.860	34.230	4.53	197	27.486	1029.0	58.4	0.220	1453.3	321
350	0.017	0.003	2.159	1.896	34.244	4.52	196	27.496	1029.2	57.5	0.234	1453.9	346
375	0.039	0.025	2.201	1.918	34.252	4.51	196	27.501	1029.3	57.0	0.248	1454.4	371
400	0.095	0.079	2.276	1.975	34.273	4.50	195	27.515	1029.4	55.7	0.263	1455.1	395
425	0.154	0.137	2.356	2.036	34.296	4.49	195	27.531	1029.5	54.3	0.276	1455.8	420
450	0.247	0.229	2.470	2.132	34.334	4.48	195	27.556	1029.7	52.0	0.290	1456.7	445
475	0.311	0.291	2.555	2.197	34.362	4.48	195	27.576	1029.8	50.3	0.302	1457.5	469
500	0.354	0.333	2.617	2.241	34.388	4.51	196	27.594	1030.0	48.6	0.315	1458.1	494
550	0.563	0.539	2.869	2.455	34.475	4.49	195	27.652	1030.2	43.5	0.338	1460.0	543
600	0.856	0.827	3.205	2.753	34.563	4.37	190	27.705	1030.5	39.1	0.358	1462.2	593
650	1.022	0.990	3.411	2.922	34.614	4.31	187	27.736	1030.8	36.6	0.377	1463.9	642
700	1.097	1.062	3.526	2.999	34.635	4.28	186	27.748	1031.0	35.7	0.395	1465.1	691
750	1.185	1.147	3.654	3.089	34.672	4.27	185	27.772	1031.3	33.8	0.413	1466.3	741
800	1.206	1.164	3.712	3.110	34.686	4.26	185	27.782	1031.5	33.1	0.429	1467.3	790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Potential Temperature (°C)
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Pressure (dbar)
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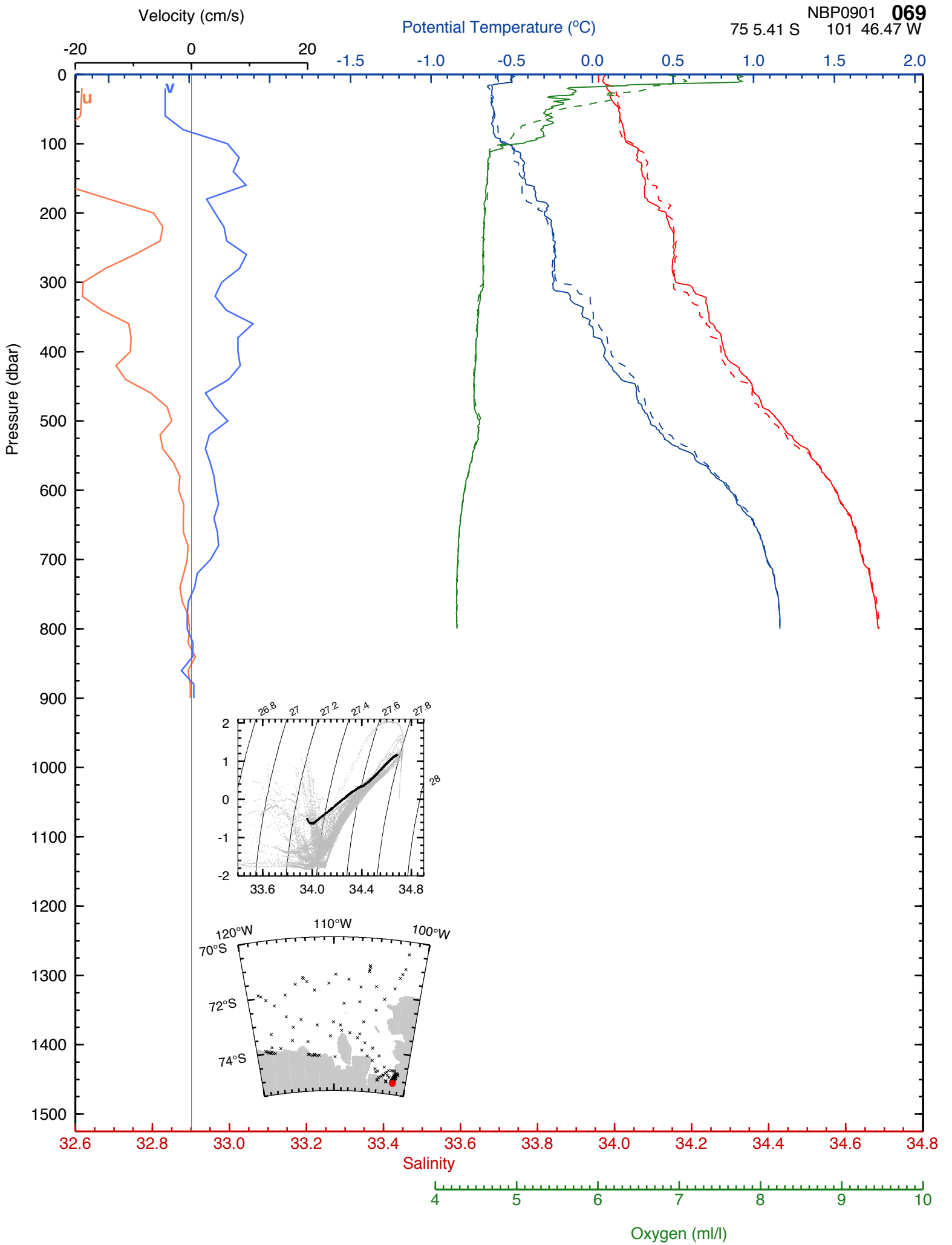
26.8 27 27.2 27.4 27.6 27.8
2 1 0 -1 -2
28
33.6 34.0 34.4 34.8
120°W 110°W 100°W
70°S 72°S 74°S
32.6 32.8 33.0 33.2 33.4 33.6 33.8 34.0 34.2 34.4 34.6 34.8
Salinity
4 5 6 7 8 9 10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**069D**	2009/01/25	08:01	-75.0901	-101.7745	800	148	938		3.6	117	-4.3	981.7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.509	-0.509	1.355	1.354	33.960	7.70	335	84.3	27.291	1027.3	77.2	0.001	1445.4			1
25	-0.624	-0.625	1.260	1.241	34.004	5.72	249	92.7	27.331	1027.5	73.3	0.019	1445.3	0.194	257	25
50	-0.613	-0.615	1.290	1.253	34.014	5.39	234	93.2	27.339	1027.6	72.5	0.037	1445.8	0.196	257	50
75	-0.614	-0.617	1.308	1.251	34.014	5.32	231	93.4	27.339	1027.7	72.4	0.055	1446.2	0.213	264	74
100	-0.528	-0.531	1.415	1.340	34.046	5.02	218	93.8	27.361	1027.8	70.3	0.073	1447.0	0.258	283	99
125	-0.423	-0.427	1.540	1.446	34.084	4.65	202	94.7	27.387	1028.0	67.8	0.090	1448.0	0.301	285	124
150	-0.418	-0.422	1.565	1.452	34.086	4.64	202	94.8	27.388	1028.1	67.6	0.107	1448.4	0.283	287	148
175	-0.348	-0.354	1.655	1.523	34.112	4.62	201	94.9	27.407	1028.2	65.9	0.124	1449.2	0.176	285	173
200	-0.291	-0.298	1.732	1.582	34.135	4.61	200	94.9	27.422	1028.4	64.4	0.140	1449.9	0.085	300	198
225	-0.240	-0.248	1.803	1.633	34.154	4.60	200	94.9	27.436	1028.5	63.1	0.156	1450.5	0.075	319	222
250	-0.225	-0.234	1.837	1.649	34.159	4.59	199	94.9	27.439	1028.6	62.8	0.172	1451.0	0.101	317	247
275	-0.224	-0.234	1.857	1.650	34.157	4.59	199	94.9	27.438	1028.7	62.8	0.187	1451.5	0.156	305	272
300	-0.231	-0.242	1.869	1.643	34.154	4.59	200	94.9	27.435	1028.9	63.0	0.203	1451.8	0.190	288	297
325	-0.125	-0.137	1.996	1.751	34.194	4.55	198	94.8	27.463	1029.0	60.5	0.219	1452.8	0.190	283	321
350	-0.041	-0.054	2.100	1.837	34.226	4.53	197	94.9	27.484	1029.1	58.5	0.233	1453.6	0.161	298	346
375	0.021	0.006	2.182	1.900	34.249	4.52	196	94.9	27.499	1029.3	57.1	0.248	1454.3	0.140	311	371
400	0.093	0.078	2.275	1.974	34.276	4.50	196	94.8	27.518	1029.4	55.4	0.262	1455.1	0.132	307	395
425	0.143	0.126	2.345	2.025	34.295	4.49	195	94.9	27.530	1029.5	54.3	0.276	1455.8	0.155	303	420
450	0.288	0.269	2.512	2.173	34.356	4.47	194	95.2	27.572	1029.7	50.6	0.289	1456.9	0.117	297	445
475	0.313	0.293	2.556	2.199	34.367	4.48	195	95.3	27.580	1029.8	49.9	0.301	1457.5	0.067	300	469
500	0.380	0.358	2.645	2.268	34.414	4.54	197	96.5	27.613	1030.0	46.8	0.314	1458.2	0.068	326	494
550	0.654	0.629	2.963	2.548	34.509	4.46	194	97.6	27.674	1030.3	41.6	0.336	1460.5	0.053	299	543
600	0.881	0.852	3.231	2.779	34.575	4.36	189	97.8	27.713	1030.5	38.4	0.356	1462.4	0.046	333	593
650	1.032	1.000	3.422	2.933	34.620	4.30	187	97.8	27.740	1030.8	36.2	0.374	1464.0	0.042	341	642
700	1.117	1.082	3.546	3.019	34.646	4.28	186	97.8	27.756	1031.0	35.1	0.392	1465.2	0.040	350	691
750	1.188	1.149	3.657	3.092	34.677	4.26	185	97.8	27.776	1031.3	33.5	0.409	1466.4	0.021	283	741
800	1.205	1.163	3.711	3.109	34.685	4.26	185	97.9	27.782	1031.5	33.1	0.426	1467.3	0.009	212	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	069U	2009/01/25	08:35	-75.0906	-101.7755	800	148	938	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.588	-0.588	1.277	1.276	33.976	6.87	298	27.307	1027.3	75.6	0.001	1445.1	1
25	-0.627	-0.628	1.256	1.237	33.988	6.44	280	27.319	1027.4	74.5	0.019	1445.3	25
50	-0.610	-0.611	1.294	1.256	34.011	5.55	241	27.336	1027.6	72.7	0.037	1445.8	50
75	-0.586	-0.588	1.337	1.280	34.022	5.06	220	27.344	1027.7	72.0	0.055	1446.3	74
100	-0.544	-0.547	1.399	1.323	34.037	4.85	211	27.355	1027.8	70.9	0.073	1447.0	99
125	-0.480	-0.483	1.483	1.389	34.060	4.68	204	27.371	1028.0	69.3	0.091	1447.7	124
150	-0.428	-0.433	1.554	1.441	34.079	4.64	202	27.383	1028.1	68.1	0.108	1448.4	148
175	-0.428	-0.434	1.573	1.441	34.078	4.64	202	27.383	1028.2	68.1	0.125	1448.8	173
200	-0.285	-0.291	1.739	1.588	34.134	4.61	200	27.421	1028.4	64.5	0.142	1449.9	198
225	-0.245	-0.253	1.798	1.629	34.150	4.60	200	27.432	1028.5	63.4	0.158	1450.5	222
250	-0.232	-0.240	1.830	1.642	34.153	4.59	200	27.434	1028.6	63.2	0.173	1451.0	247
275	-0.239	-0.249	1.842	1.635	34.150	4.59	200	27.432	1028.7	63.3	0.189	1451.4	272
300	-0.203	-0.213	1.897	1.671	34.160	4.59	199	27.439	1028.9	62.7	0.205	1452.0	297
325	-0.002	-0.014	2.122	1.877	34.238	4.53	197	27.491	1029.0	57.9	0.220	1453.4	321
350	0.019	0.006	2.161	1.898	34.245	4.52	196	27.497	1029.2	57.4	0.234	1453.9	346
375	0.102	0.087	2.265	1.983	34.276	4.50	196	27.517	1029.3	55.5	0.248	1454.8	371
400	0.130	0.115	2.313	2.012	34.286	4.49	195	27.524	1029.4	54.9	0.262	1455.3	395
425	0.230	0.212	2.433	2.113	34.324	4.47	194	27.549	1029.6	52.7	0.276	1456.2	420
450	0.300	0.281	2.524	2.185	34.357	4.48	195	27.572	1029.7	50.6	0.289	1457.0	445
475	0.348	0.329	2.593	2.235	34.381	4.49	195	27.589	1029.8	49.1	0.301	1457.7	469
500	0.430	0.409	2.696	2.319	34.427	4.53	197	27.621	1030.0	46.2	0.313	1458.5	494
550	0.669	0.643	2.977	2.563	34.509	4.46	194	27.674	1030.3	41.7	0.335	1460.5	543
600	0.885	0.857	3.235	2.783	34.572	4.36	189	27.711	1030.5	38.6	0.355	1462.4	593
650	1.039	1.007	3.429	2.939	34.618	4.30	187	27.738	1030.8	36.4	0.374	1464.0	642
700	1.121	1.085	3.550	3.023	34.644	4.28	186	27.754	1031.0	35.3	0.392	1465.2	691
750	1.186	1.147	3.655	3.090	34.672	4.27	185	27.772	1031.3	33.8	0.409	1466.3	741
800	1.205	1.163	3.711	3.109	34.685	4.26	185	27.782	1031.5	33.1	0.426	1467.3	790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1300
1400
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27.6
27.8
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-2
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34.4
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120°W
110°W
100°W
70°S
72°S
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34.0
34.2
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34.6
34.8
Salinity
4
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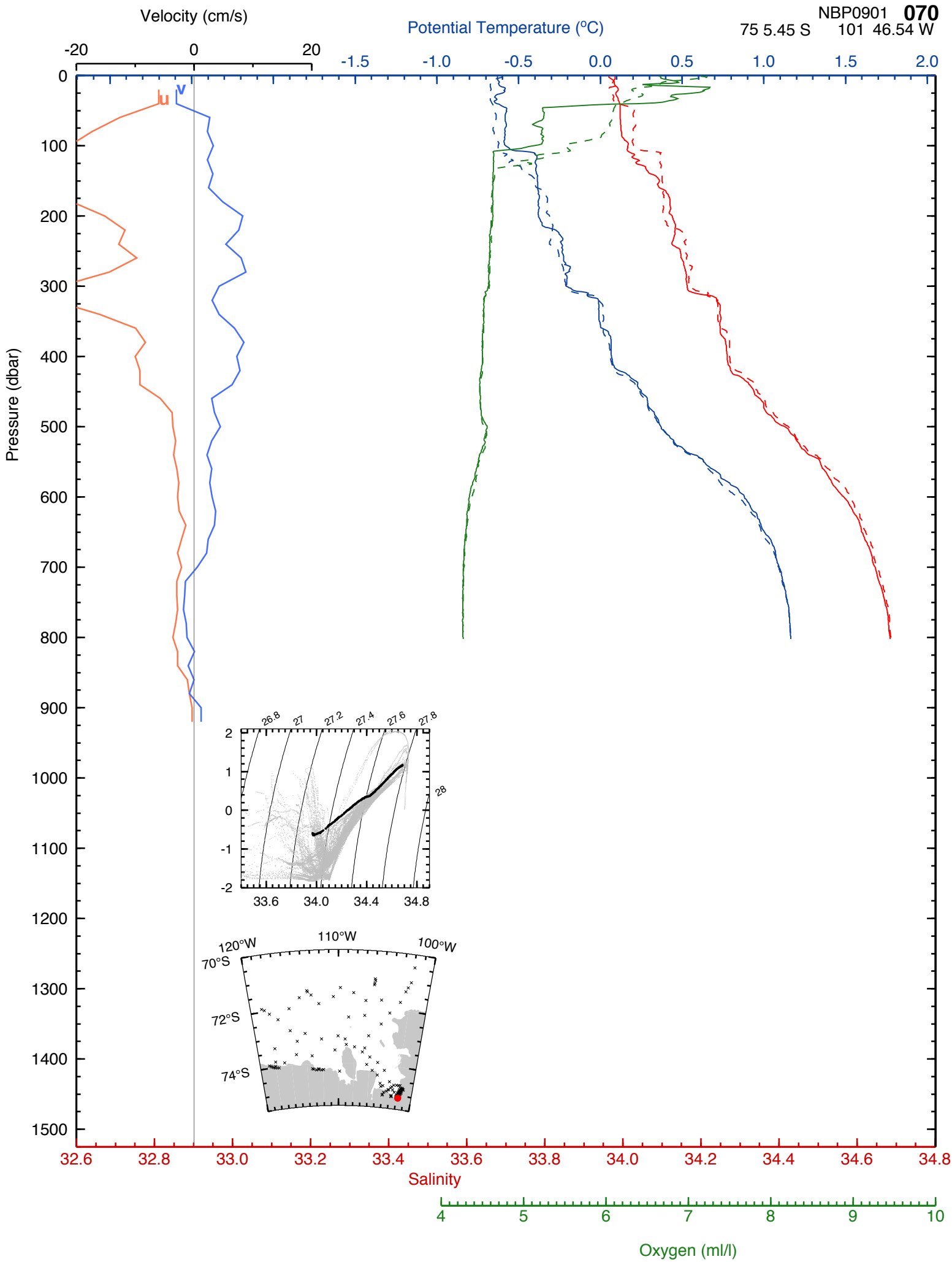
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**070D**	2009/01/25	09:00	-75.0909	-101.7756	802	148	940		4.0	120	-4.8	981.7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.628	-0.628	1.237	1.236	33.980	6.65	289	89.7	27.312	1027.3	75.2	0.001	1444.9			1
25	-0.598	-0.599	1.283	1.265	33.967	7.05	307	86.7	27.300	1027.4	76.3	0.019	1445.4	0.067	243	25
50	-0.574	-0.575	1.331	1.293	34.029	5.23	227	93.5	27.349	1027.6	71.5	0.037	1446.0	0.096	262	50
75	-0.580	-0.582	1.343	1.287	34.028	5.23	227	93.6	27.349	1027.7	71.5	0.055	1446.4	0.162	279	74
100	-0.577	-0.580	1.365	1.289	34.028	5.12	223	93.6	27.349	1027.8	71.4	0.073	1446.8	0.213	279	99
125	-0.395	-0.399	1.570	1.475	34.096	4.63	201	94.7	27.395	1028.0	67.0	0.090	1448.1	0.262	275	124
150	-0.382	-0.387	1.602	1.489	34.100	4.63	201	94.7	27.399	1028.1	66.7	0.107	1448.6	0.276	276	148
175	-0.368	-0.374	1.635	1.503	34.105	4.62	201	94.7	27.402	1028.2	66.3	0.124	1449.1	0.223	281	173
200	-0.372	-0.379	1.649	1.499	34.103	4.63	201	94.7	27.401	1028.4	66.3	0.140	1449.5	0.177	297	198
225	-0.246	-0.254	1.797	1.628	34.154	4.59	200	94.8	27.436	1028.5	63.1	0.156	1450.5	0.140	302	222
250	-0.225	-0.234	1.837	1.649	34.161	4.59	200	94.9	27.441	1028.6	62.6	0.172	1451.0	0.134	299	247
275	-0.176	-0.186	1.906	1.699	34.176	4.58	199	94.9	27.451	1028.8	61.6	0.188	1451.7	0.151	305	272
300	-0.197	-0.208	1.903	1.677	34.169	4.57	199	94.9	27.446	1028.9	62.0	0.203	1452.0	0.220	284	297
325	0.002	-0.011	2.125	1.880	34.243	4.51	196	95.0	27.495	1029.0	57.5	0.218	1453.4	0.239	278	321
350	0.007	-0.006	2.150	1.886	34.245	4.52	196	95.0	27.497	1029.2	57.4	0.232	1453.9	0.153	291	346
375	0.078	0.064	2.241	1.959	34.273	4.50	196	95.2	27.516	1029.3	55.7	0.247	1454.6	0.120	311	371
400	0.083	0.067	2.264	1.963	34.274	4.50	196	95.2	27.516	1029.4	55.6	0.260	1455.1	0.123	308	395
425	0.179	0.162	2.382	2.062	34.309	4.47	194	95.0	27.540	1029.6	53.5	0.274	1456.0	0.121	310	420
450	0.268	0.249	2.491	2.152	34.345	4.47	194	94.9	27.564	1029.7	51.3	0.287	1456.8	0.102	303	445
475	0.328	0.308	2.572	2.214	34.374	4.48	195	95.3	27.584	1029.8	49.5	0.300	1457.5	0.058	305	469
500	0.392	0.370	2.657	2.281	34.424	4.56	198	96.8	27.621	1030.0	46.1	0.312	1458.3	0.056	319	494
550	0.657	0.632	2.966	2.551	34.510	4.45	193	97.6	27.675	1030.3	41.5	0.334	1460.5	0.041	305	543
600	0.909	0.881	3.260	2.808	34.583	4.34	189	97.7	27.718	1030.5	38.0	0.354	1462.5	0.040	317	593
650	1.037	1.005	3.427	2.937	34.622	4.30	187	97.8	27.741	1030.8	36.1	0.372	1464.0	0.037	336	642
700	1.129	1.093	3.558	3.031	34.651	4.27	186	97.8	27.759	1031.0	34.8	0.390	1465.2	0.028	294	691
750	1.182	1.144	3.651	3.086	34.675	4.26	185	97.8	27.775	1031.3	33.6	0.407	1466.3	0.033	241	741
800	1.206	1.164	3.713	3.110	34.686	4.26	185	97.8	27.782	1031.5	33.1	0.423	1467.3	0.036	249	790
802	1.206	1.164	3.714	3.110	34.685	4.27	185	97.9	27.781	1031.5	33.1	0.424	1467.3			792

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	070U	2009/01/25	09:35	-75.0903	-101.7747	802	148	940	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.601	-0.601	1.262	1.262	33.965	7.15	311	27.299	1027.3	76.5	0.001	1445.0	1
25	-0.677	-0.678	1.206	1.187	33.982	6.41	279	27.316	1027.4	74.7	0.019	1445.0	25
50	-0.646	-0.648	1.256	1.218	33.993	6.09	265	27.323	1027.6	74.0	0.037	1445.6	50
75	-0.654	-0.657	1.267	1.210	33.995	6.04	262	27.325	1027.7	73.7	0.056	1446.0	74
100	-0.622	-0.625	1.319	1.244	34.013	5.50	239	27.338	1027.8	72.4	0.074	1446.6	99
125	-0.550	-0.554	1.411	1.317	34.034	5.10	222	27.353	1028.0	71.0	0.092	1447.3	124
150	-0.387	-0.392	1.596	1.483	34.094	4.63	201	27.394	1028.1	67.1	0.109	1448.6	148
175	-0.319	-0.325	1.685	1.553	34.120	4.61	200	27.412	1028.2	65.4	0.126	1449.3	173
200	-0.305	-0.311	1.718	1.568	34.126	4.61	200	27.416	1028.4	64.9	0.142	1449.8	198
225	-0.287	-0.295	1.755	1.585	34.133	4.61	200	27.421	1028.5	64.4	0.158	1450.3	222
250	-0.250	-0.259	1.812	1.623	34.147	4.60	200	27.430	1028.6	63.5	0.174	1450.9	247
275	-0.217	-0.227	1.864	1.657	34.159	4.59	199	27.439	1028.7	62.7	0.190	1451.5	272
300	-0.199	-0.210	1.901	1.675	34.164	4.58	199	27.442	1028.9	62.4	0.206	1452.0	297
325	0.023	0.011	2.147	1.902	34.247	4.52	196	27.498	1029.0	57.3	0.221	1453.5	321
350	0.029	0.016	2.172	1.908	34.249	4.51	196	27.500	1029.2	57.1	0.235	1454.0	346
375	0.061	0.046	2.223	1.940	34.261	4.51	196	27.507	1029.3	56.4	0.249	1454.5	371
400	0.077	0.061	2.258	1.957	34.267	4.50	196	27.512	1029.4	56.0	0.263	1455.0	395
425	0.129	0.112	2.330	2.010	34.282	4.50	195	27.521	1029.5	55.2	0.277	1455.7	420
450	0.260	0.242	2.484	2.145	34.336	4.47	194	27.557	1029.7	51.9	0.291	1456.8	445
475	0.314	0.294	2.558	2.200	34.363	4.48	195	27.576	1029.8	50.2	0.303	1457.5	469
500	0.393	0.372	2.658	2.282	34.415	4.53	197	27.614	1030.0	46.8	0.316	1458.3	494
550	0.659	0.634	2.967	2.553	34.505	4.46	194	27.671	1030.3	41.9	0.338	1460.5	543
600	0.869	0.841	3.218	2.767	34.566	4.37	190	27.707	1030.5	38.9	0.358	1462.3	593
650	1.019	0.987	3.408	2.919	34.612	4.31	187	27.735	1030.8	36.7	0.377	1463.9	642
700	1.126	1.090	3.555	3.028	34.646	4.27	186	27.755	1031.0	35.2	0.395	1465.2	691
750	1.182	1.143	3.650	3.085	34.672	4.26	185	27.772	1031.3	33.8	0.412	1466.3	741
800	1.205	1.163	3.711	3.109	34.685	4.26	185	27.781	1031.5	33.2	0.429	1467.3	790
802	1.206	1.164	3.714	3.110	34.685	4.27	185	27.781	1031.5	33.1	0.430	1467.3	792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34.0
34.2
34.4
34.6
34.8
Salinity
4
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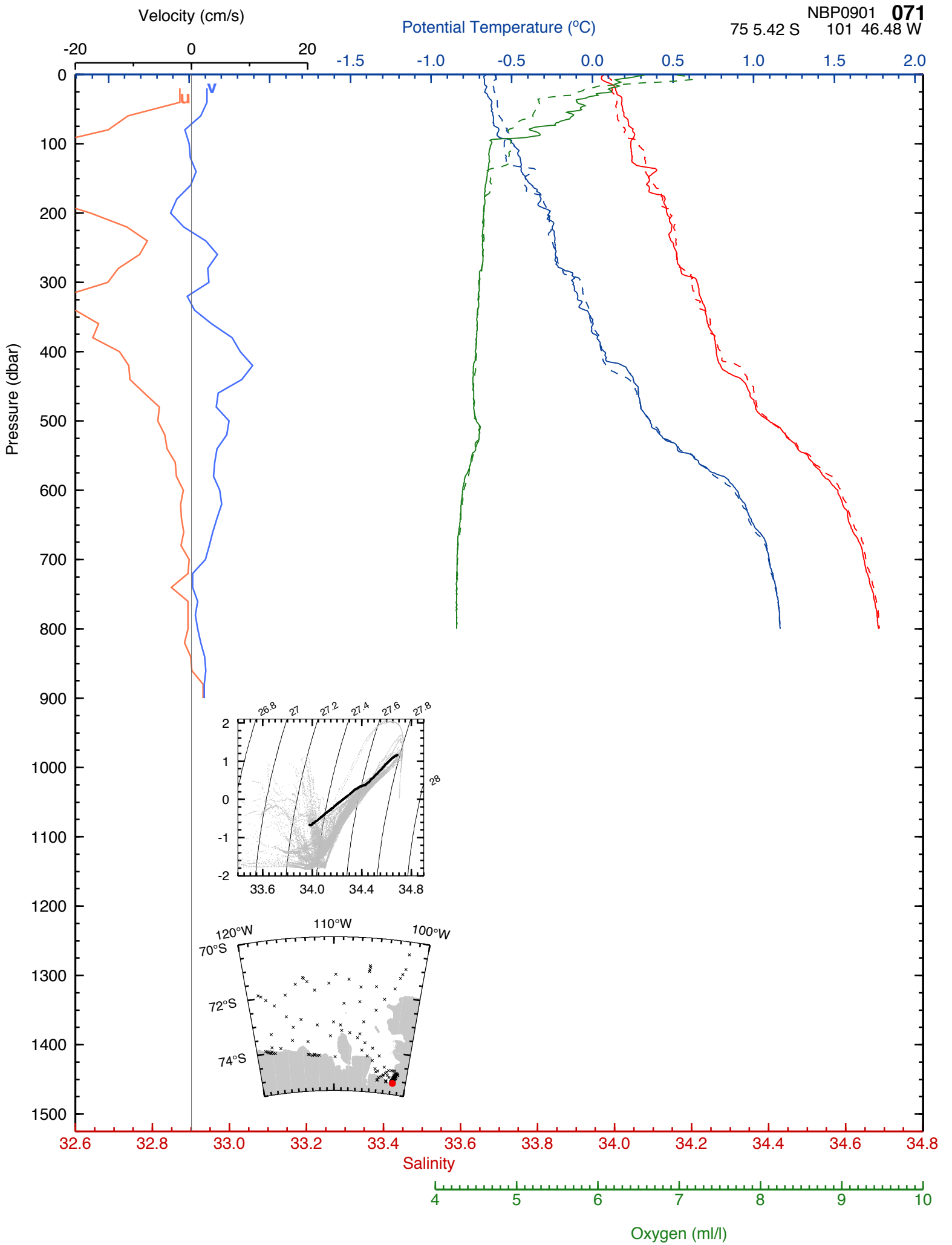
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**071D**	2009/01/25	10:00	-75.0903	-101.7746	800	149	939		3.3	130	-4.6	981.9

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.659	-0.659	1.206	1.205	33.980	6.57	286	90.4	27.313	1027.3	75.1	0.001	1444.7			1
25	-0.666	-0.667	1.217	1.198	33.993	6.17	268	91.6	27.324	1027.4	74.0	0.019	1445.1	0.034	324	25
50	-0.621	-0.622	1.282	1.245	34.005	5.79	252	92.1	27.332	1027.6	73.2	0.037	1445.7	0.070	302	50
75	-0.602	-0.604	1.321	1.264	34.019	5.32	231	93.3	27.343	1027.7	72.1	0.055	1446.2	0.133	269	74
100	-0.488	-0.491	1.456	1.380	34.062	4.69	204	94.5	27.372	1027.8	69.2	0.073	1447.2	0.241	269	99
125	-0.441	-0.445	1.522	1.428	34.080	4.66	203	94.7	27.385	1028.0	68.0	0.090	1447.9	0.249	270	124
150	-0.410	-0.415	1.573	1.460	34.089	4.63	201	94.8	27.391	1028.1	67.4	0.107	1448.5	0.283	271	148
175	-0.320	-0.326	1.684	1.552	34.122	4.61	200	94.9	27.413	1028.2	65.2	0.124	1449.3	0.265	266	173
200	-0.261	-0.268	1.763	1.612	34.147	4.60	200	94.8	27.431	1028.4	63.6	0.140	1450.0	0.187	259	198
225	-0.234	-0.242	1.809	1.640	34.157	4.58	199	94.9	27.438	1028.5	62.9	0.156	1450.6	0.108	266	222
250	-0.222	-0.231	1.840	1.652	34.161	4.58	199	94.8	27.440	1028.6	62.6	0.171	1451.0	0.087	291	247
275	-0.212	-0.221	1.870	1.663	34.166	4.58	199	94.9	27.444	1028.8	62.3	0.187	1451.5	0.117	288	272
300	-0.109	-0.120	1.993	1.767	34.201	4.54	197	94.9	27.467	1028.9	60.1	0.202	1452.5	0.144	282	297
325	-0.079	-0.090	2.043	1.798	34.212	4.53	197	94.9	27.475	1029.0	59.4	0.217	1453.0	0.221	268	321
350	0.003	-0.010	2.146	1.882	34.244	4.52	196	94.8	27.496	1029.2	57.4	0.232	1453.8	0.189	275	346
375	0.029	0.014	2.191	1.908	34.255	4.51	196	94.8	27.504	1029.3	56.7	0.246	1454.4	0.175	288	371
400	0.090	0.075	2.272	1.971	34.276	4.49	195	94.9	27.518	1029.4	55.4	0.260	1455.1	0.158	301	395
425	0.231	0.214	2.435	2.115	34.330	4.47	194	94.9	27.554	1029.6	52.2	0.274	1456.2	0.151	314	420
450	0.300	0.281	2.524	2.185	34.359	4.47	194	95.0	27.574	1029.7	50.4	0.286	1457.0	0.127	307	445
475	0.317	0.297	2.560	2.203	34.368	4.47	194	95.4	27.580	1029.8	49.8	0.299	1457.5	0.082	304	469
500	0.377	0.356	2.642	2.265	34.403	4.51	196	96.0	27.605	1030.0	47.6	0.311	1458.2	0.082	315	494
550	0.648	0.623	2.956	2.542	34.507	4.45	193	97.5	27.673	1030.3	41.7	0.333	1460.4	0.059	318	543
600	0.924	0.895	3.274	2.823	34.587	4.34	188	97.7	27.721	1030.5	37.8	0.353	1462.6	0.049	337	593
650	1.032	1.000	3.422	2.933	34.621	4.30	187	97.8	27.741	1030.8	36.2	0.372	1464.0	0.046	339	642
700	1.132	1.096	3.561	3.034	34.653	4.27	185	97.8	27.760	1031.0	34.7	0.389	1465.3	0.029	342	691
750	1.182	1.143	3.650	3.085	34.675	4.26	185	97.8	27.775	1031.3	33.5	0.406	1466.3	0.034	275	741
800	1.205	1.163	3.712	3.109	34.686	4.26	185	97.8	27.782	1031.5	33.1	0.423	1467.3	0.011	325	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	071U	2009/01/25	10:35	-75.0902	-101.7743	800	149	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.607	-0.607	1.257	1.256	33.973	6.97	303	27.305	1027.3	75.8	0.001	1445.0	1
25	-0.607	-0.607	1.278	1.259	34.005	5.76	250	27.331	1027.5	73.3	0.019	1445.4	25
50	-0.585	-0.586	1.319	1.281	34.021	5.23	228	27.343	1027.6	72.1	0.037	1445.9	50
75	-0.549	-0.551	1.375	1.318	34.038	4.99	217	27.356	1027.7	70.8	0.055	1446.5	74
100	-0.544	-0.547	1.399	1.323	34.042	4.93	214	27.358	1027.8	70.5	0.072	1447.0	99
125	-0.530	-0.534	1.431	1.337	34.045	4.92	214	27.360	1028.0	70.3	0.090	1447.4	124
150	-0.409	-0.413	1.575	1.462	34.089	4.68	203	27.391	1028.1	67.4	0.107	1448.5	148
175	-0.303	-0.309	1.701	1.569	34.125	4.62	201	27.415	1028.2	65.1	0.124	1449.4	173
200	-0.276	-0.283	1.747	1.597	34.136	4.60	200	27.423	1028.4	64.3	0.140	1450.0	198
225	-0.248	-0.256	1.795	1.625	34.148	4.59	200	27.431	1028.5	63.5	0.156	1450.5	222
250	-0.228	-0.236	1.834	1.646	34.155	4.59	199	27.436	1028.6	63.0	0.172	1451.0	247
275	-0.189	-0.199	1.892	1.685	34.167	4.58	199	27.444	1028.8	62.3	0.187	1451.6	272
300	-0.061	-0.072	2.042	1.817	34.214	4.53	197	27.476	1028.9	59.3	0.203	1452.7	297
325	-0.032	-0.044	2.091	1.846	34.226	4.52	197	27.483	1029.0	58.6	0.217	1453.2	321
350	-0.004	-0.017	2.138	1.875	34.239	4.52	196	27.493	1029.2	57.8	0.232	1453.8	346
375	0.048	0.034	2.210	1.928	34.257	4.51	196	27.504	1029.3	56.7	0.246	1454.5	371
400	0.070	0.055	2.252	1.950	34.265	4.50	196	27.510	1029.4	56.2	0.260	1455.0	395
425	0.117	0.100	2.318	1.998	34.280	4.49	195	27.520	1029.5	55.3	0.274	1455.6	420
450	0.277	0.259	2.501	2.162	34.343	4.47	194	27.562	1029.7	51.5	0.287	1456.9	445
475	0.317	0.297	2.560	2.202	34.364	4.48	195	27.576	1029.8	50.2	0.300	1457.5	469
500	0.381	0.359	2.645	2.268	34.401	4.51	196	27.603	1030.0	47.8	0.313	1458.2	494
550	0.647	0.622	2.954	2.540	34.502	4.46	194	27.669	1030.3	42.1	0.335	1460.4	543
600	0.912	0.883	3.262	2.810	34.580	4.35	189	27.715	1030.5	38.3	0.355	1462.5	593
650	1.017	0.985	3.407	2.917	34.612	4.31	187	27.735	1030.8	36.7	0.374	1463.9	642
700	1.128	1.093	3.557	3.030	34.648	4.27	186	27.756	1031.0	35.1	0.392	1465.2	691
750	1.182	1.144	3.651	3.086	34.672	4.27	185	27.772	1031.3	33.8	0.409	1466.3	741
800	1.205	1.163	3.712	3.109	34.686	4.26	185	27.782	1031.5	33.1	0.426	1467.3	790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2.0
NBP0901 071
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101 46.48 W
Pressure (dbar)
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500
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700
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27.2
27.4
27.6
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2
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-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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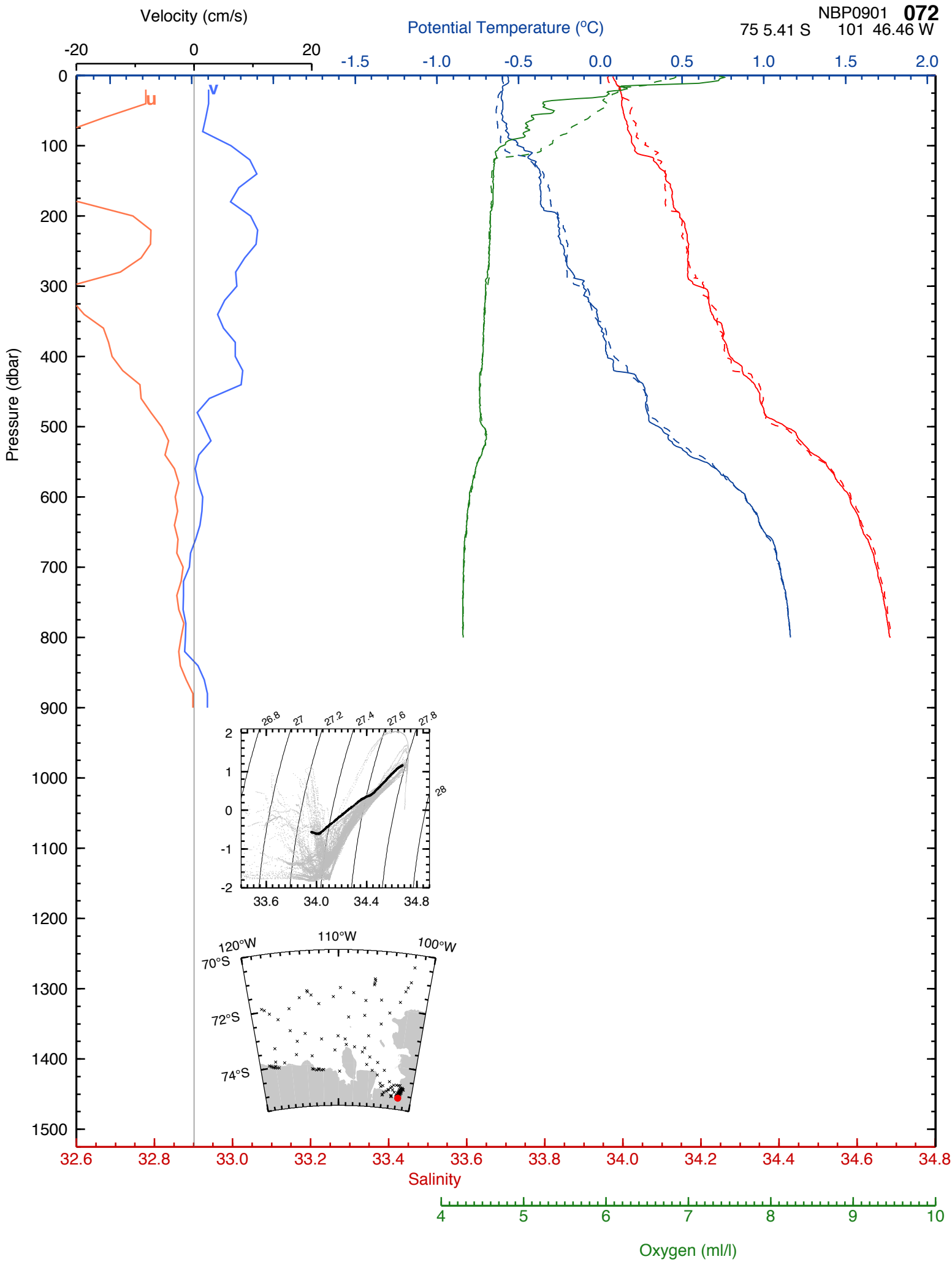
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**072D**	2009/01/25	11:00	-75.0902	-101.7744	800	149	939		5.0	123	-4.7	981.9

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.568	-0.568	1.296	1.295	33.964	7.37	321	86.3	27.296	1027.3	76.7	0.001	1445.1			1
25	-0.601	-0.602	1.282	1.263	33.997	6.03	262	90.8	27.325	1027.4	73.9	0.019	1445.4	0.086	287	25
50	-0.600	-0.602	1.304	1.266	34.019	5.37	233	93.3	27.343	1027.6	72.2	0.037	1445.9	0.118	283	50
75	-0.569	-0.571	1.354	1.298	34.034	5.02	218	93.9	27.353	1027.7	71.1	0.055	1446.4	0.201	275	74
100	-0.501	-0.504	1.442	1.367	34.060	4.75	206	94.3	27.371	1027.8	69.3	0.073	1447.2	0.292	282	99
125	-0.395	-0.399	1.569	1.475	34.096	4.65	202	94.7	27.396	1028.0	67.0	0.090	1448.1	0.342	286	124
150	-0.360	-0.365	1.624	1.511	34.109	4.63	201	94.7	27.405	1028.1	66.1	0.106	1448.7	0.330	286	148
175	-0.360	-0.365	1.643	1.512	34.109	4.63	201	94.7	27.405	1028.2	66.0	0.123	1449.1	0.235	287	173
200	-0.254	-0.261	1.770	1.620	34.150	4.60	200	94.9	27.433	1028.4	63.4	0.139	1450.1	0.149	310	198
225	-0.243	-0.251	1.800	1.630	34.154	4.59	200	94.9	27.435	1028.5	63.1	0.155	1450.5	0.130	326	222
250	-0.211	-0.220	1.852	1.663	34.165	4.58	199	94.9	27.443	1028.6	62.4	0.171	1451.1	0.127	321	247
275	-0.181	-0.191	1.901	1.694	34.175	4.57	199	94.9	27.450	1028.8	61.7	0.186	1451.7	0.136	305	272
300	-0.090	-0.101	2.013	1.787	34.207	4.54	197	95.0	27.471	1028.9	59.7	0.201	1452.5	0.209	291	297
325	-0.046	-0.058	2.076	1.832	34.225	4.53	197	94.9	27.483	1029.0	58.6	0.216	1453.2	0.212	284	321
350	-0.004	-0.017	2.139	1.875	34.240	4.52	197	94.9	27.494	1029.2	57.7	0.231	1453.8	0.182	284	346
375	0.038	0.024	2.200	1.918	34.257	4.51	196	94.9	27.505	1029.3	56.6	0.245	1454.4	0.162	292	371
400	0.058	0.043	2.239	1.938	34.263	4.50	196	94.8	27.509	1029.4	56.2	0.259	1454.9	0.157	296	395
425	0.225	0.208	2.429	2.109	34.328	4.47	194	94.9	27.553	1029.6	52.3	0.273	1456.2	0.147	304	420
450	0.290	0.272	2.514	2.175	34.353	4.47	194	95.0	27.569	1029.7	50.8	0.286	1456.9	0.116	305	445
475	0.300	0.281	2.544	2.186	34.359	4.47	194	95.1	27.573	1029.8	50.5	0.298	1457.4	0.084	280	469
500	0.376	0.355	2.641	2.264	34.401	4.51	196	95.6	27.604	1030.0	47.7	0.311	1458.2	0.062	283	494
550	0.664	0.639	2.972	2.558	34.513	4.44	193	97.5	27.677	1030.3	41.4	0.333	1460.5	0.047	278	543
600	0.914	0.886	3.265	2.813	34.584	4.34	189	97.8	27.718	1030.5	38.0	0.352	1462.5	0.032	291	593
650	1.036	1.004	3.426	2.937	34.622	4.30	187	97.8	27.741	1030.8	36.1	0.371	1464.0	0.033	286	642
700	1.134	1.098	3.563	3.036	34.654	4.27	186	97.8	27.761	1031.0	34.6	0.389	1465.3	0.025	252	691
750	1.180	1.141	3.648	3.083	34.674	4.26	185	97.8	27.774	1031.3	33.6	0.406	1466.3	0.034	238	741
800	1.204	1.162	3.710	3.108	34.685	4.26	185	97.8	27.781	1031.5	33.2	0.422	1467.3	0.025	233	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	072U	2009/01/25	11:34	-75.0895	-101.7735	800	149	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.600	-0.600	1.265	1.264	33.975	6.84	298	27.307	1027.3	75.7	0.001	1445.0	1
25	-0.615	-0.616	1.268	1.250	33.995	6.12	266	27.324	1027.4	74.0	0.019	1445.3	25
50	-0.636	-0.637	1.267	1.229	34.001	5.92	257	27.329	1027.6	73.4	0.037	1445.7	50
75	-0.626	-0.628	1.296	1.240	34.012	5.58	243	27.338	1027.7	72.5	0.055	1446.1	74
100	-0.588	-0.591	1.354	1.278	34.028	5.30	230	27.349	1027.8	71.4	0.073	1446.7	99
125	-0.408	-0.412	1.556	1.461	34.086	4.63	201	27.389	1028.0	67.7	0.091	1448.1	124
150	-0.336	-0.341	1.648	1.535	34.111	4.61	200	27.405	1028.1	66.0	0.107	1448.8	148
175	-0.305	-0.310	1.699	1.568	34.126	4.61	200	27.416	1028.3	65.0	0.124	1449.4	173
200	-0.254	-0.260	1.770	1.620	34.146	4.60	200	27.430	1028.4	63.7	0.140	1450.1	198
225	-0.204	-0.212	1.840	1.670	34.164	4.58	199	27.442	1028.5	62.5	0.156	1450.7	222
250	-0.194	-0.203	1.869	1.681	34.167	4.58	199	27.444	1028.6	62.3	0.171	1451.2	247
275	-0.196	-0.206	1.885	1.678	34.166	4.58	199	27.443	1028.8	62.3	0.187	1451.6	272
300	-0.113	-0.124	1.989	1.763	34.194	4.56	198	27.462	1028.9	60.6	0.202	1452.4	297
325	-0.050	-0.062	2.072	1.827	34.221	4.53	197	27.480	1029.0	58.9	0.217	1453.2	321
350	0.009	-0.004	2.152	1.888	34.242	4.52	197	27.494	1029.2	57.6	0.232	1453.9	346
375	0.046	0.032	2.208	1.926	34.256	4.51	196	27.504	1029.3	56.7	0.246	1454.5	371
400	0.100	0.084	2.282	1.980	34.275	4.50	196	27.516	1029.4	55.6	0.260	1455.1	395
425	0.190	0.173	2.392	2.072	34.309	4.48	195	27.539	1029.6	53.6	0.274	1456.0	420
450	0.290	0.271	2.513	2.175	34.348	4.47	194	27.566	1029.7	51.2	0.287	1456.9	445
475	0.312	0.292	2.555	2.197	34.361	4.48	195	27.575	1029.8	50.4	0.299	1457.5	469
500	0.405	0.384	2.670	2.294	34.416	4.52	197	27.614	1030.0	46.8	0.312	1458.4	494
550	0.701	0.675	3.009	2.595	34.517	4.44	193	27.678	1030.3	41.3	0.334	1460.7	543
600	0.916	0.887	3.266	2.814	34.580	4.35	189	27.715	1030.5	38.2	0.353	1462.5	593
650	1.028	0.996	3.417	2.928	34.615	4.31	187	27.736	1030.8	36.6	0.372	1463.9	642
700	1.131	1.096	3.561	3.034	34.650	4.27	186	27.757	1031.0	34.9	0.390	1465.2	691
750	1.177	1.138	3.645	3.080	34.669	4.26	185	27.770	1031.3	34.0	0.407	1466.3	741
800	1.204	1.162	3.710	3.108	34.685	4.26	185	27.781	1031.5	33.2	0.424	1467.3	790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Salinity
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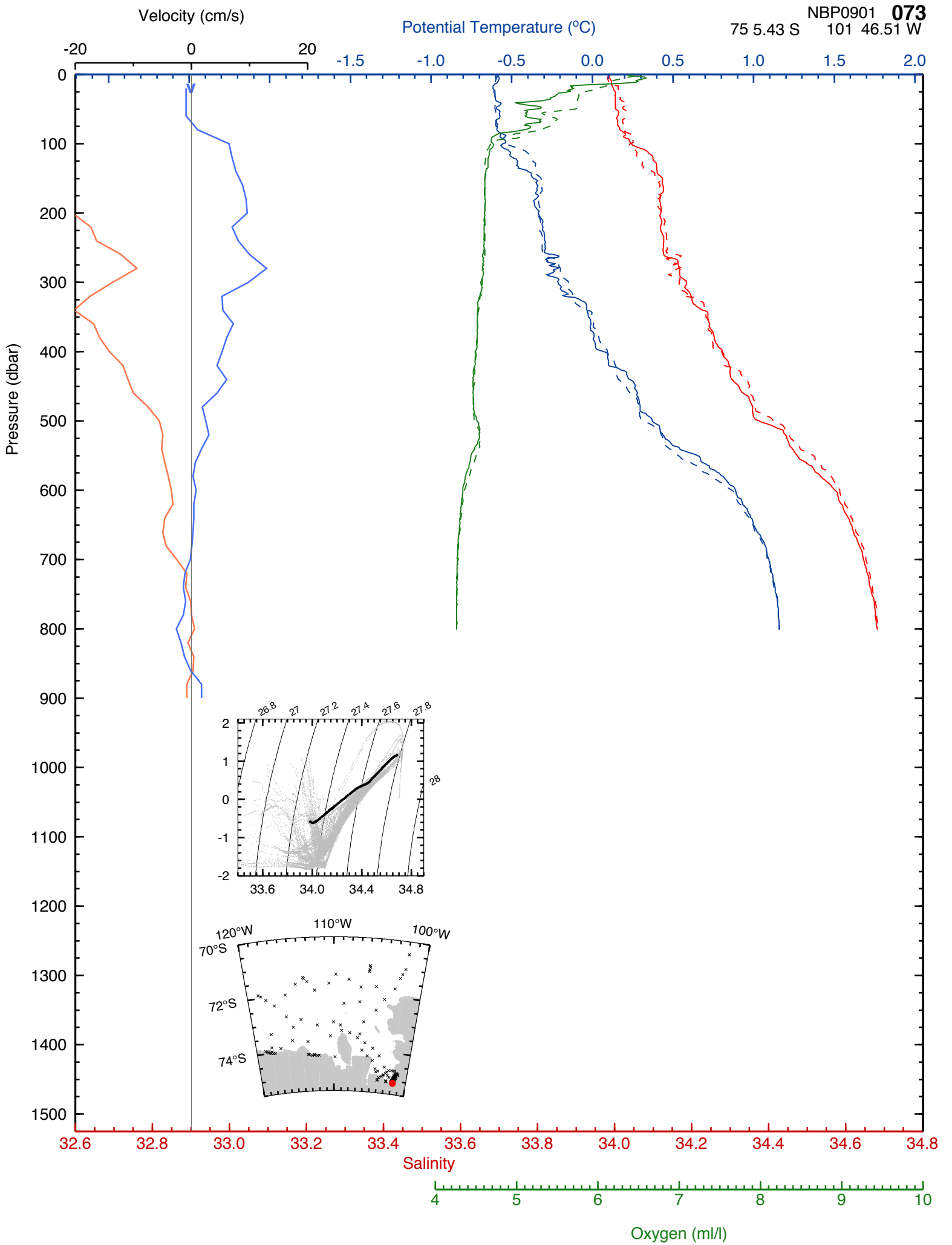
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**073D**	2009/01/25	11:59	-75.0905	-101.7752	801	148	938		4.7	132	-5.4	982.0

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.586	-0.586	1.279	1.278	33.987	6.36	277	89.0	27.316	1027.3	74.9	0.001	1445.1			1
25	-0.610	-0.611	1.274	1.255	34.011	5.63	245	92.3	27.336	1027.5	72.8	0.019	1445.4	0.267	268	25
50	-0.592	-0.593	1.312	1.275	34.023	5.22	227	93.2	27.345	1027.6	71.9	0.037	1445.9	0.267	268	50
75	-0.588	-0.591	1.334	1.278	34.022	5.16	224	93.5	27.344	1027.7	72.0	0.055	1446.3	0.297	271	74
100	-0.554	-0.557	1.389	1.313	34.040	4.71	205	94.6	27.358	1027.8	70.6	0.072	1446.9	0.384	279	99
125	-0.462	-0.466	1.501	1.407	34.072	4.65	202	94.7	27.380	1028.0	68.5	0.090	1447.8	0.373	281	124
150	-0.360	-0.364	1.625	1.512	34.111	4.61	200	94.8	27.406	1028.1	66.0	0.106	1448.7	0.302	286	148
175	-0.330	-0.335	1.674	1.542	34.120	4.61	200	94.8	27.413	1028.2	65.3	0.123	1449.3	0.257	291	173
200	-0.329	-0.336	1.694	1.543	34.120	4.60	200	94.8	27.412	1028.4	65.3	0.139	1449.7	0.229	295	198
225	-0.301	-0.309	1.741	1.571	34.131	4.60	200	94.8	27.420	1028.5	64.5	0.155	1450.2	0.186	293	222
250	-0.284	-0.293	1.777	1.588	34.137	4.60	200	94.8	27.424	1028.6	64.1	0.172	1450.7	0.173	301	247
275	-0.248	-0.258	1.832	1.625	34.148	4.59	200	94.9	27.432	1028.7	63.4	0.187	1451.3	0.159	318	272
300	-0.203	-0.214	1.897	1.671	34.167	4.58	199	94.9	27.445	1028.9	62.1	0.203	1452.0	0.167	309	297
325	-0.065	-0.077	2.057	1.812	34.218	4.53	197	94.9	27.479	1029.0	59.0	0.218	1453.1	0.185	287	321
350	-0.010	-0.023	2.132	1.868	34.238	4.52	196	94.8	27.492	1029.2	57.8	0.233	1453.8	0.202	287	346
375	0.024	0.010	2.186	1.904	34.252	4.52	196	94.8	27.502	1029.3	56.9	0.247	1454.4	0.176	292	371
400	0.086	0.071	2.268	1.967	34.276	4.49	195	94.8	27.518	1029.4	55.4	0.261	1455.1	0.155	291	395
425	0.186	0.169	2.389	2.069	34.312	4.47	194	94.9	27.542	1029.6	53.3	0.275	1456.0	0.126	290	420
450	0.284	0.266	2.508	2.169	34.350	4.46	194	95.0	27.567	1029.7	51.0	0.288	1456.9	0.121	298	445
475	0.311	0.291	2.554	2.196	34.364	4.47	194	95.1	27.577	1029.8	50.2	0.301	1457.5	0.094	289	469
500	0.393	0.372	2.658	2.282	34.412	4.51	196	96.2	27.611	1030.0	47.1	0.313	1458.3	0.065	291	494
550	0.677	0.652	2.986	2.572	34.516	4.44	193	97.6	27.679	1030.3	41.2	0.335	1460.6	0.053	287	543
600	0.917	0.888	3.267	2.815	34.584	4.34	189	97.8	27.719	1030.5	37.9	0.355	1462.6	0.037	280	593
650	1.030	0.997	3.420	2.930	34.620	4.30	187	97.8	27.740	1030.8	36.2	0.373	1463.9	0.046	275	642
700	1.130	1.094	3.559	3.032	34.653	4.27	186	97.8	27.760	1031.0	34.7	0.391	1465.2	0.033	268	691
750	1.179	1.140	3.647	3.083	34.674	4.26	185	97.8	27.774	1031.3	33.6	0.408	1466.3	0.017	215	741
800	1.202	1.160	3.708	3.106	34.684	4.26	185	97.8	27.781	1031.5	33.2	0.425	1467.3	0.020	175	790
801	1.201	1.159	3.709	3.106	34.683	4.26	185	97.8	27.780	1031.5	33.3	0.425	1467.3	0.020	175	791

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	073U	2009/01/25	12:34	-75.0906	-101.7755	801	148	938	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.589	-0.589	1.276	1.275	33.985	6.45	280	27.314	1027.3	75.0	0.001	1445.1	1
25	-0.603	-0.603	1.281	1.262	34.002	5.81	253	27.329	1027.4	73.5	0.019	1445.4	25
50	-0.602	-0.603	1.301	1.264	34.003	5.71	248	27.330	1027.6	73.4	0.037	1445.8	50
75	-0.594	-0.596	1.328	1.272	34.010	5.41	235	27.335	1027.7	72.8	0.055	1446.3	74
100	-0.525	-0.528	1.418	1.343	34.044	4.68	203	27.359	1027.8	70.4	0.073	1447.0	99
125	-0.365	-0.369	1.600	1.506	34.102	4.62	201	27.399	1028.0	66.7	0.090	1448.3	124
150	-0.314	-0.319	1.672	1.559	34.124	4.61	200	27.415	1028.1	65.1	0.107	1449.0	148
175	-0.327	-0.333	1.676	1.544	34.118	4.60	200	27.411	1028.2	65.5	0.123	1449.3	173
200	-0.324	-0.330	1.699	1.548	34.120	4.61	200	27.412	1028.4	65.4	0.139	1449.7	198
225	-0.319	-0.326	1.723	1.553	34.121	4.62	201	27.412	1028.5	65.2	0.156	1450.2	222
250	-0.303	-0.311	1.758	1.569	34.126	4.61	200	27.416	1028.6	64.8	0.172	1450.6	247
275	-0.200	-0.209	1.882	1.675	34.166	4.58	199	27.443	1028.8	62.3	0.188	1451.6	272
300	-0.138	-0.149	1.963	1.737	34.187	4.56	198	27.457	1028.9	61.0	0.203	1452.3	297
325	-0.102	-0.114	2.019	1.774	34.201	4.54	198	27.467	1029.0	60.1	0.218	1452.9	321
350	0.010	-0.004	2.152	1.888	34.242	4.52	196	27.495	1029.2	57.6	0.233	1453.9	346
375	0.049	0.035	2.212	1.929	34.257	4.51	196	27.505	1029.3	56.6	0.247	1454.5	371
400	0.108	0.093	2.291	1.989	34.280	4.51	196	27.520	1029.4	55.3	0.261	1455.2	395
425	0.166	0.149	2.369	2.049	34.300	4.48	195	27.533	1029.5	54.1	0.275	1455.9	420
450	0.227	0.209	2.449	2.111	34.323	4.47	194	27.548	1029.7	52.7	0.289	1456.6	445
475	0.304	0.284	2.547	2.189	34.355	4.47	194	27.570	1029.8	50.8	0.301	1457.4	469
500	0.344	0.323	2.607	2.231	34.376	4.48	195	27.585	1030.0	49.5	0.314	1458.0	494
550	0.559	0.534	2.865	2.451	34.474	4.50	196	27.652	1030.2	43.5	0.337	1460.0	543
600	0.894	0.865	3.244	2.792	34.573	4.36	189	27.711	1030.5	38.6	0.357	1462.4	593
650	1.028	0.996	3.418	2.928	34.615	4.31	187	27.736	1030.8	36.6	0.376	1463.9	642
700	1.122	1.086	3.551	3.024	34.647	4.28	186	27.756	1031.0	35.1	0.394	1465.2	691
750	1.175	1.136	3.643	3.078	34.668	4.27	185	27.770	1031.3	34.0	0.411	1466.3	741
800	1.200	1.158	3.707	3.104	34.682	4.26	185	27.779	1031.5	33.3	0.428	1467.2	790
801	1.201	1.159	3.709	3.106	34.683	4.26	185	27.780	1031.5	33.3	0.428	1467.3	791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0.0
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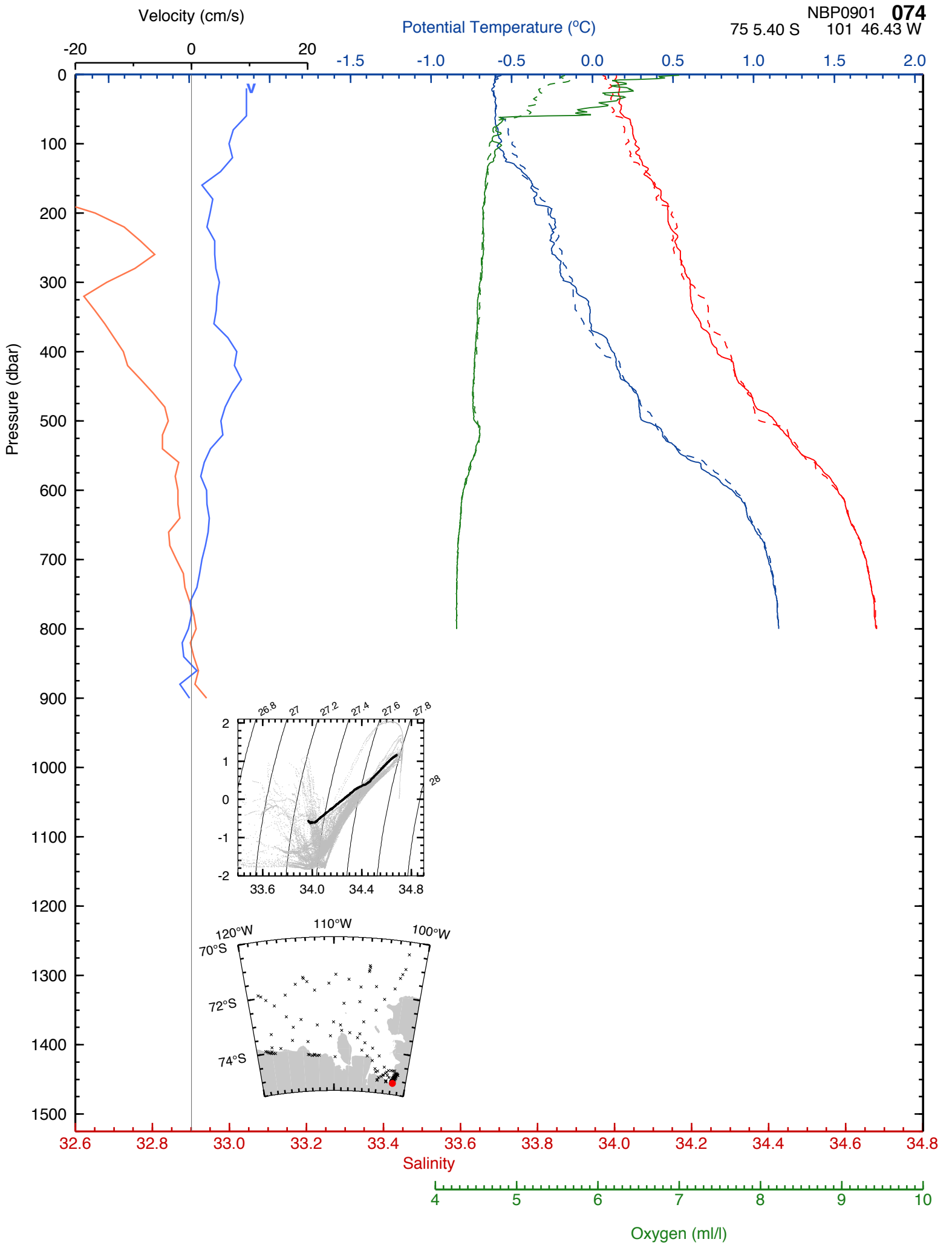
1.0
1.5
2.0
NBP0901 073
75 5.43 S
101 46.51 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**074D**	2009/01/25	13:00	-75.0900	-101.7739	800	148	938		5.2	123	-5.2	982.0

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.563	-0.563	1.301	1.300	33.968	7.00	304	87.5	27.300	1027.3	76.4	0.001	1445.2			1
25	-0.614	-0.615	1.269	1.250	33.984	6.33	275	89.8	27.315	1027.4	74.9	0.019	1445.3	0.233	294	25
50	-0.600	-0.602	1.302	1.265	33.997	5.78	251	90.9	27.325	1027.6	73.9	0.037	1445.8	0.233	294	50
75	-0.594	-0.596	1.329	1.273	34.024	4.75	207	94.4	27.346	1027.7	71.8	0.055	1446.3	0.266	288	74
100	-0.579	-0.582	1.363	1.288	34.030	4.79	208	94.5	27.351	1027.8	71.3	0.073	1446.8	0.288	283	99
125	-0.537	-0.541	1.425	1.331	34.043	4.72	205	94.5	27.359	1028.0	70.4	0.091	1447.4	0.284	284	124
150	-0.387	-0.392	1.597	1.484	34.098	4.62	201	94.7	27.397	1028.1	66.8	0.108	1448.6	0.291	277	148
175	-0.342	-0.347	1.662	1.530	34.114	4.61	200	94.8	27.408	1028.2	65.7	0.125	1449.2	0.263	277	173
200	-0.252	-0.259	1.772	1.621	34.149	4.58	199	94.8	27.432	1028.4	63.5	0.141	1450.1	0.178	281	198
225	-0.242	-0.250	1.801	1.632	34.154	4.59	200	94.9	27.436	1028.5	63.1	0.157	1450.5	0.116	284	222
250	-0.243	-0.252	1.819	1.631	34.154	4.59	200	94.9	27.436	1028.6	63.1	0.172	1451.0	0.089	297	247
275	-0.191	-0.201	1.891	1.684	34.173	4.57	199	94.9	27.448	1028.8	61.8	0.188	1451.6	0.093	297	272
300	-0.132	-0.143	1.970	1.744	34.194	4.55	198	94.9	27.463	1028.9	60.5	0.203	1452.3	0.146	289	297
325	-0.021	-0.033	2.103	1.858	34.237	4.52	197	94.7	27.492	1029.0	57.9	0.218	1453.3	0.189	283	321
350	-0.004	-0.017	2.139	1.875	34.242	4.52	196	94.7	27.495	1029.2	57.5	0.233	1453.8	0.167	284	346
375	0.066	0.051	2.229	1.946	34.270	4.50	196	94.8	27.514	1029.3	55.8	0.247	1454.6	0.150	290	371
400	0.141	0.125	2.324	2.023	34.297	4.49	195	94.8	27.532	1029.4	54.2	0.261	1455.4	0.142	302	395
425	0.172	0.155	2.374	2.054	34.307	4.48	195	94.9	27.539	1029.6	53.6	0.274	1455.9	0.133	304	420
450	0.253	0.235	2.476	2.137	34.339	4.47	194	95.0	27.560	1029.7	51.7	0.287	1456.8	0.116	315	445
475	0.307	0.288	2.551	2.193	34.360	4.46	194	95.0	27.574	1029.8	50.4	0.300	1457.4	0.086	319	469
500	0.336	0.315	2.599	2.222	34.378	4.48	195	95.2	27.587	1030.0	49.3	0.312	1458.0	0.068	322	494
550	0.592	0.567	2.899	2.485	34.490	4.47	194	97.4	27.663	1030.3	42.6	0.335	1460.1	0.055	305	543
600	0.895	0.867	3.245	2.793	34.578	4.34	189	97.8	27.715	1030.5	38.2	0.355	1462.5	0.034	312	593
650	1.026	0.994	3.415	2.926	34.618	4.30	187	97.7	27.739	1030.8	36.3	0.373	1463.9	0.038	325	642
700	1.126	1.091	3.555	3.028	34.652	4.27	186	97.8	27.760	1031.0	34.7	0.391	1465.2	0.037	304	691
750	1.173	1.135	3.641	3.077	34.671	4.26	185	97.8	27.772	1031.3	33.8	0.408	1466.3	0.014	307	741
800	1.196	1.154	3.702	3.100	34.680	4.26	185	97.8	27.778	1031.5	33.5	0.425	1467.2	0.006	106	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	074U	2009/01/25	13:35	-75.0904	-101.7753	800	148	938	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.603	-0.603	1.263	1.262	34.004	5.59	243	27.331	1027.3	73.5	0.001	1445.0	1
25	-0.612	-0.613	1.273	1.254	34.011	5.29	230	27.337	1027.5	72.8	0.018	1445.4	25
50	-0.597	-0.599	1.306	1.269	34.017	5.11	222	27.340	1027.6	72.4	0.036	1445.9	50
75	-0.526	-0.528	1.398	1.342	34.045	4.74	206	27.360	1027.7	70.4	0.054	1446.6	74
100	-0.496	-0.499	1.447	1.372	34.053	4.67	203	27.366	1027.8	69.8	0.072	1447.2	99
125	-0.450	-0.454	1.513	1.419	34.070	4.64	202	27.378	1028.0	68.7	0.089	1447.8	124
150	-0.403	-0.408	1.580	1.467	34.092	4.65	202	27.393	1028.1	67.2	0.106	1448.5	148
175	-0.321	-0.327	1.682	1.551	34.120	4.61	200	27.412	1028.2	65.4	0.123	1449.3	173
200	-0.267	-0.274	1.756	1.606	34.139	4.59	200	27.424	1028.4	64.2	0.139	1450.0	198
225	-0.235	-0.242	1.808	1.639	34.150	4.59	199	27.432	1028.5	63.4	0.155	1450.6	222
250	-0.201	-0.209	1.862	1.673	34.163	4.58	199	27.441	1028.6	62.6	0.171	1451.2	247
275	-0.164	-0.174	1.918	1.711	34.176	4.57	199	27.450	1028.8	61.8	0.186	1451.8	272
300	-0.113	-0.124	1.989	1.763	34.196	4.55	198	27.463	1028.9	60.5	0.201	1452.4	297
325	-0.104	-0.116	2.017	1.772	34.198	4.55	198	27.465	1029.0	60.3	0.216	1452.9	321
350	-0.063	-0.076	2.078	1.814	34.214	4.54	197	27.476	1029.1	59.3	0.231	1453.5	346
375	0.017	0.003	2.178	1.896	34.246	4.52	196	27.498	1029.3	57.3	0.246	1454.3	371
400	0.070	0.055	2.252	1.951	34.266	4.51	196	27.511	1029.4	56.1	0.260	1455.0	395
425	0.192	0.174	2.394	2.074	34.310	4.48	195	27.540	1029.6	53.5	0.274	1456.0	420
450	0.256	0.238	2.479	2.140	34.334	4.47	194	27.556	1029.7	52.1	0.287	1456.8	445
475	0.317	0.297	2.561	2.203	34.362	4.47	194	27.575	1029.8	50.3	0.300	1457.5	469
500	0.406	0.385	2.672	2.295	34.416	4.52	196	27.614	1030.0	46.8	0.312	1458.4	494
550	0.613	0.588	2.920	2.506	34.490	4.48	195	27.661	1030.3	42.7	0.334	1460.2	543
600	0.915	0.886	3.265	2.813	34.579	4.34	189	27.715	1030.5	38.3	0.354	1462.5	593
650	1.032	1.000	3.422	2.932	34.615	4.30	187	27.736	1030.8	36.6	0.373	1463.9	642
700	1.138	1.102	3.567	3.040	34.653	4.27	186	27.760	1031.0	34.7	0.391	1465.3	691
750	1.178	1.140	3.647	3.082	34.670	4.27	185	27.771	1031.3	33.9	0.408	1466.3	741
800	1.196	1.154	3.702	3.100	34.680	4.26	185	27.778	1031.5	33.5	0.425	1467.2	790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2.0
NBP0901 074
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Pressure (dbar)
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200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
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27.2
27.4
27.6
27.8
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-1
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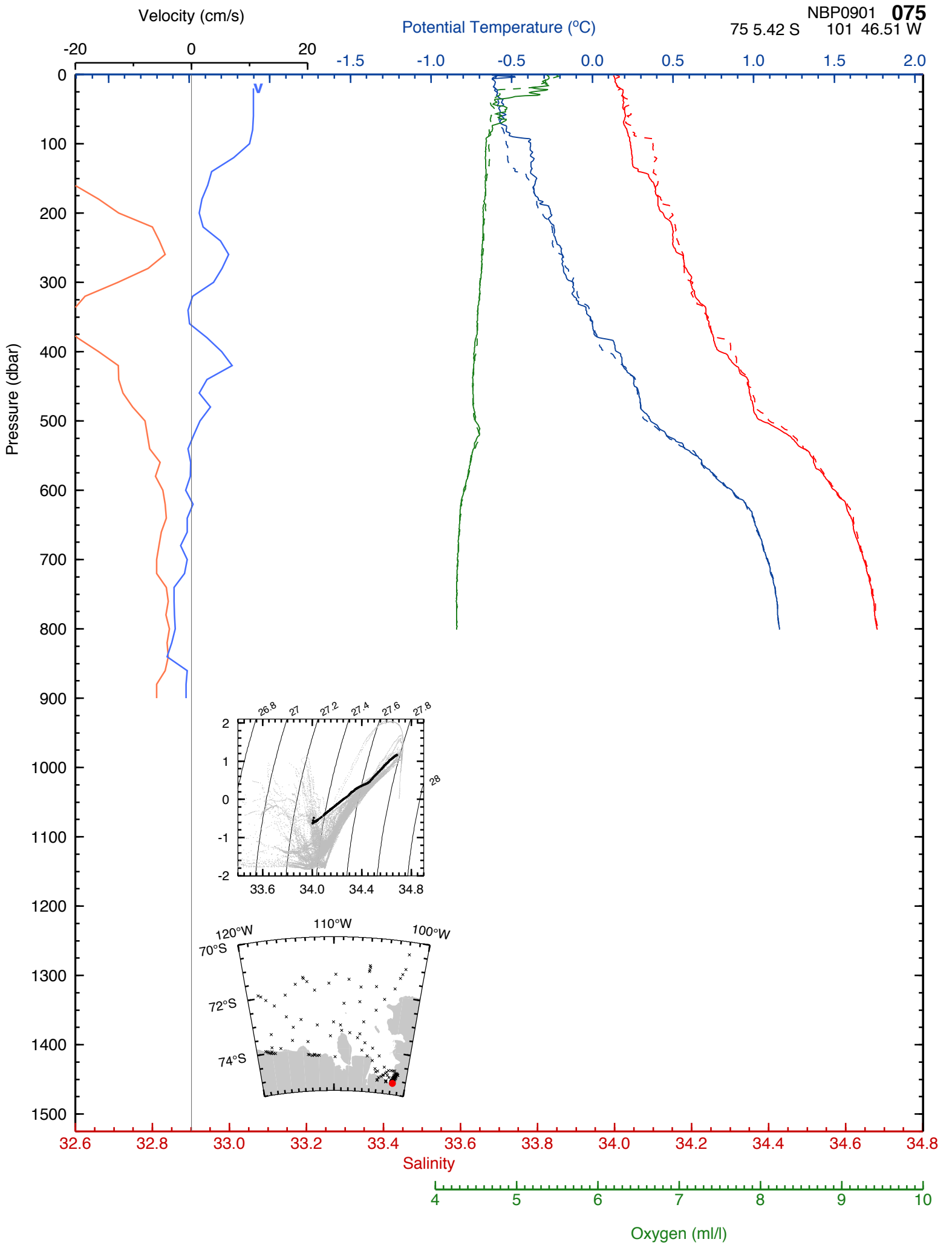
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**075D**	2009/01/25	14:00	-75.0904	-101.7752	801	145	937		5.7	134	-5.7	982.3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.624	-0.624	1.243	1.242	34.004	5.37	233	92.8	27.331	1027.3	73.4	0.001	1444.9			1
25	-0.594	-0.595	1.291	1.272	34.016	5.19	226	92.9	27.339	1027.5	72.5	0.018	1445.5	0.315	290	25
50	-0.577	-0.578	1.328	1.290	34.026	4.88	212	94.1	27.347	1027.6	71.7	0.036	1446.0	0.316	290	50
75	-0.531	-0.533	1.393	1.336	34.044	4.70	204	94.6	27.360	1027.7	70.5	0.054	1446.6	0.309	290	74
100	-0.381	-0.384	1.565	1.490	34.100	4.62	201	94.8	27.398	1027.9	66.8	0.071	1447.8	0.317	288	99
125	-0.368	-0.372	1.597	1.503	34.104	4.62	201	94.8	27.401	1028.0	66.5	0.088	1448.3	0.280	284	124
150	-0.341	-0.345	1.644	1.531	34.117	4.62	201	94.7	27.410	1028.1	65.6	0.104	1448.8	0.221	278	148
175	-0.348	-0.354	1.655	1.523	34.113	4.62	201	94.8	27.407	1028.2	65.8	0.121	1449.2	0.176	277	173
200	-0.251	-0.258	1.773	1.622	34.149	4.59	199	94.8	27.432	1028.4	63.5	0.137	1450.1	0.130	276	198
225	-0.228	-0.236	1.816	1.646	34.159	4.58	199	94.9	27.439	1028.5	62.8	0.153	1450.6	0.070	290	222
250	-0.188	-0.196	1.876	1.687	34.175	4.57	199	94.9	27.450	1028.6	61.8	0.169	1451.2	0.075	317	247
275	-0.177	-0.186	1.906	1.699	34.178	4.57	199	94.9	27.452	1028.8	61.5	0.184	1451.7	0.086	313	272
300	-0.108	-0.119	1.994	1.769	34.203	4.55	198	94.9	27.468	1028.9	60.0	0.199	1452.5	0.126	290	297
325	-0.088	-0.100	2.034	1.789	34.209	4.54	197	94.8	27.473	1029.0	59.6	0.214	1453.0	0.184	270	321
350	0.001	-0.013	2.143	1.879	34.243	4.52	196	94.7	27.496	1029.2	57.4	0.229	1453.8	0.208	269	346
375	0.024	0.010	2.186	1.904	34.252	4.51	196	94.8	27.502	1029.3	56.9	0.243	1454.4	0.207	274	371
400	0.167	0.151	2.350	2.049	34.306	4.48	195	94.8	27.538	1029.4	53.7	0.257	1455.5	0.175	286	395
425	0.219	0.202	2.422	2.102	34.324	4.47	194	95.0	27.550	1029.6	52.6	0.270	1456.2	0.144	299	420
450	0.282	0.263	2.506	2.167	34.349	4.46	194	95.0	27.566	1029.7	51.1	0.283	1456.9	0.126	281	445
475	0.317	0.298	2.561	2.203	34.366	4.47	194	95.1	27.578	1029.8	50.1	0.295	1457.5	0.113	282	469
500	0.383	0.361	2.647	2.271	34.402	4.49	195	95.9	27.604	1030.0	47.8	0.308	1458.2	0.088	283	494
550	0.670	0.645	2.978	2.564	34.514	4.44	193	97.5	27.677	1030.3	41.3	0.330	1460.5	0.069	266	543
600	0.893	0.864	3.243	2.791	34.577	4.35	189	97.7	27.715	1030.5	38.3	0.350	1462.4	0.054	262	593
650	1.042	1.009	3.432	2.942	34.622	4.30	187	97.8	27.741	1030.8	36.2	0.368	1464.0	0.045	261	642
700	1.118	1.083	3.548	3.021	34.650	4.27	186	97.8	27.758	1031.0	34.8	0.386	1465.2	0.060	258	691
750	1.174	1.135	3.642	3.077	34.671	4.26	185	97.8	27.772	1031.3	33.8	0.403	1466.3	0.052	235	741
800	1.201	1.159	3.707	3.105	34.683	4.26	185	97.8	27.780	1031.5	33.2	0.420	1467.3	0.050	235	790
801	1.201	1.159	3.708	3.105	34.683	4.26	185	97.8	27.780	1031.5	33.3	0.420	1467.3	0.050	235	791

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	075U	2009/01/25	14:35	-75.0906	-101.7754	801	145	937	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.604	-0.604	1.262	1.261	33.998	5.49	239	27.325	1027.3	73.9	0.001	1445.0	1
25	-0.589	-0.589	1.297	1.278	34.022	4.75	206	27.345	1027.5	72.0	0.018	1445.5	25
50	-0.581	-0.582	1.323	1.286	34.023	4.72	205	27.345	1027.6	71.9	0.036	1446.0	50
75	-0.566	-0.569	1.357	1.300	34.027	4.67	203	27.347	1027.7	71.6	0.054	1446.4	74
100	-0.532	-0.535	1.411	1.336	34.041	4.66	203	27.357	1027.8	70.6	0.072	1447.0	99
125	-0.520	-0.524	1.442	1.348	34.046	4.66	203	27.361	1028.0	70.2	0.090	1447.5	124
150	-0.396	-0.401	1.587	1.474	34.092	4.63	201	27.392	1028.1	67.3	0.107	1448.5	148
175	-0.346	-0.352	1.657	1.525	34.110	4.62	201	27.405	1028.2	66.0	0.123	1449.2	173
200	-0.305	-0.311	1.718	1.567	34.125	4.61	200	27.416	1028.4	65.0	0.140	1449.8	198
225	-0.239	-0.247	1.804	1.634	34.152	4.59	200	27.434	1028.5	63.3	0.156	1450.6	222
250	-0.228	-0.237	1.834	1.646	34.155	4.59	200	27.436	1028.6	63.0	0.172	1451.0	247
275	-0.161	-0.171	1.921	1.714	34.181	4.57	199	27.454	1028.8	61.4	0.187	1451.8	272
300	-0.111	-0.122	1.991	1.765	34.197	4.55	198	27.465	1028.9	60.4	0.202	1452.4	297
325	-0.060	-0.072	2.062	1.817	34.216	4.54	197	27.477	1029.0	59.2	0.217	1453.1	321
350	-0.001	-0.014	2.142	1.878	34.239	4.52	197	27.493	1029.2	57.7	0.232	1453.8	346
375	0.039	0.025	2.201	1.918	34.254	4.52	196	27.503	1029.3	56.8	0.246	1454.4	371
400	0.098	0.082	2.280	1.978	34.274	4.50	196	27.516	1029.4	55.6	0.260	1455.1	395
425	0.227	0.210	2.430	2.110	34.323	4.47	194	27.549	1029.6	52.7	0.274	1456.2	420
450	0.291	0.273	2.515	2.176	34.348	4.46	194	27.565	1029.7	51.2	0.287	1456.9	445
475	0.318	0.298	2.561	2.203	34.358	4.46	194	27.572	1029.8	50.6	0.300	1457.5	469
500	0.358	0.337	2.622	2.245	34.383	4.49	195	27.590	1030.0	49.0	0.312	1458.1	494
550	0.672	0.647	2.981	2.566	34.509	4.45	193	27.673	1030.3	41.7	0.334	1460.5	543
600	0.891	0.862	3.240	2.788	34.571	4.36	190	27.710	1030.5	38.7	0.354	1462.4	593
650	1.044	1.012	3.434	2.944	34.619	4.30	187	27.739	1030.8	36.4	0.373	1464.0	642
700	1.122	1.087	3.551	3.024	34.647	4.28	186	27.756	1031.0	35.1	0.391	1465.2	691
750	1.175	1.136	3.643	3.078	34.668	4.27	185	27.770	1031.3	34.0	0.408	1466.3	741
800	1.200	1.159	3.707	3.104	34.682	4.26	185	27.779	1031.5	33.4	0.425	1467.2	790
801	1.201	1.159	3.708	3.105	34.683	4.26	185	27.780	1031.5	33.3	0.425	1467.3	791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0
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V
Potential Temperature (°C)
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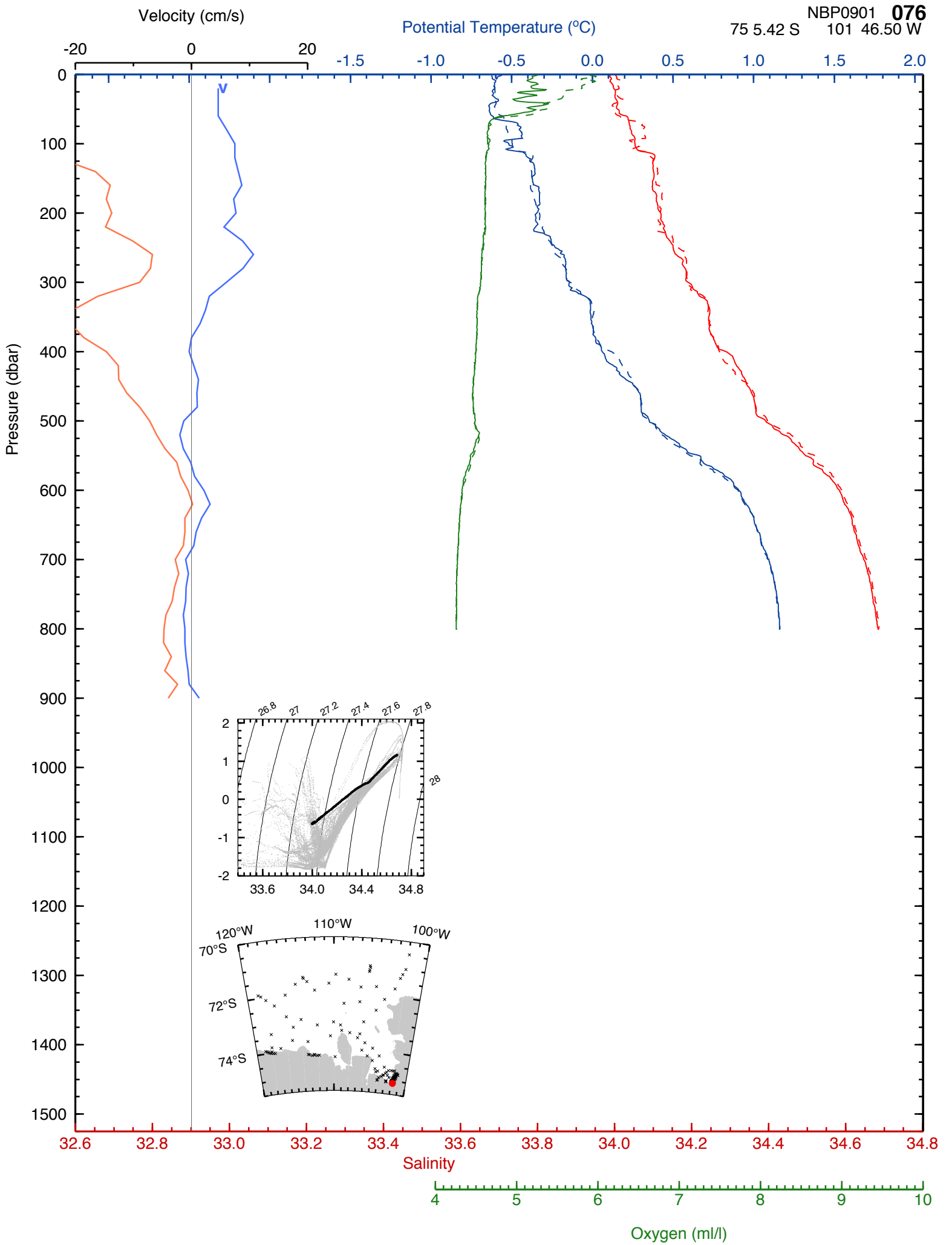
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**076D**	2009/01/25	14:59	-75.0903	-101.7750	801	147	938		4.9	137	-5.6	982.3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.623	-0.623	1.243	1.242	34.002	5.26	229	92.7	27.330	1027.3	73.5	0.001	1444.9			1
25	-0.619	-0.619	1.265	1.247	34.005	5.05	220	92.8	27.332	1027.5	73.2	0.018	1445.3	0.271	280	25
50	-0.637	-0.638	1.266	1.228	33.998	5.21	226	93.1	27.327	1027.6	73.6	0.037	1445.7	0.271	280	50
75	-0.448	-0.450	1.478	1.422	34.076	4.65	202	94.6	27.382	1027.7	68.4	0.054	1447.0	0.252	283	74
100	-0.515	-0.518	1.428	1.353	34.052	4.66	203	94.6	27.366	1027.8	69.9	0.072	1447.1	0.253	287	99
125	-0.383	-0.387	1.582	1.487	34.101	4.62	201	94.8	27.399	1028.0	66.7	0.089	1448.2	0.233	289	124
150	-0.369	-0.374	1.615	1.502	34.105	4.62	201	94.8	27.402	1028.1	66.3	0.105	1448.7	0.176	299	148
175	-0.323	-0.329	1.681	1.549	34.123	4.61	200	94.8	27.414	1028.2	65.2	0.122	1449.3	0.164	298	173
200	-0.339	-0.346	1.683	1.532	34.116	4.62	201	94.8	27.409	1028.4	65.6	0.138	1449.6	0.158	299	198
225	-0.357	-0.364	1.684	1.514	34.109	4.61	201	94.8	27.404	1028.5	66.0	0.154	1450.0	0.155	293	222
250	-0.218	-0.227	1.845	1.656	34.164	4.58	199	94.8	27.443	1028.6	62.4	0.170	1451.1	0.131	317	247
275	-0.157	-0.167	1.926	1.719	34.187	4.57	199	94.9	27.458	1028.8	61.0	0.186	1451.8	0.119	324	272
300	-0.132	-0.143	1.970	1.744	34.194	4.56	198	94.9	27.463	1028.9	60.5	0.201	1452.3	0.108	307	297
325	-0.009	-0.021	2.115	1.870	34.240	4.52	196	94.9	27.494	1029.0	57.7	0.216	1453.4	0.167	281	321
350	0.004	-0.009	2.147	1.883	34.245	4.51	196	94.8	27.497	1029.2	57.3	0.230	1453.8	0.207	276	346
375	0.017	0.003	2.179	1.896	34.249	4.51	196	94.8	27.500	1029.3	57.0	0.244	1454.3	0.196	272	371
400	0.076	0.061	2.258	1.957	34.273	4.50	196	94.7	27.516	1029.4	55.6	0.258	1455.0	0.156	269	395
425	0.169	0.152	2.372	2.052	34.307	4.49	195	94.8	27.539	1029.6	53.5	0.272	1455.9	0.126	272	420
450	0.279	0.260	2.503	2.164	34.351	4.46	194	94.9	27.568	1029.7	51.0	0.285	1456.9	0.122	275	445
475	0.320	0.300	2.564	2.206	34.366	4.47	194	95.1	27.578	1029.8	50.1	0.298	1457.5	0.101	275	469
500	0.373	0.352	2.638	2.261	34.397	4.49	195	95.9	27.601	1030.0	48.0	0.310	1458.2	0.078	265	494
550	0.690	0.665	2.999	2.585	34.520	4.43	193	97.5	27.681	1030.3	41.0	0.332	1460.6	0.043	255	543
600	0.936	0.907	3.287	2.835	34.590	4.33	188	97.7	27.722	1030.5	37.6	0.352	1462.7	0.021	322	593
650	1.044	1.012	3.434	2.945	34.623	4.29	186	97.8	27.742	1030.8	36.1	0.370	1464.0	0.019	325	642
700	1.130	1.094	3.559	3.032	34.654	4.27	186	97.8	27.761	1031.0	34.6	0.388	1465.2	0.024	266	691
750	1.181	1.142	3.649	3.084	34.674	4.26	185	97.8	27.774	1031.3	33.6	0.405	1466.3	0.030	253	741
800	1.203	1.161	3.709	3.107	34.685	4.26	185	97.8	27.782	1031.5	33.1	0.422	1467.3	0.047	255	790
801	1.202	1.160	3.709	3.106	34.684	4.26	185	97.8	27.780	1031.5	33.2	0.422	1467.3	0.047	255	791

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	076U	2009/01/25	15:33	-75.0906	-101.7755	801	147	938	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.562	-0.562	1.304	1.303	33.989	5.90	257	27.316	1027.3	74.8	0.001	1445.2	1
25	-0.604	-0.605	1.280	1.261	34.002	5.57	242	27.328	1027.4	73.6	0.019	1445.4	25
50	-0.594	-0.595	1.309	1.272	34.008	5.36	233	27.334	1027.6	73.0	0.037	1445.9	50
75	-0.533	-0.535	1.391	1.334	34.040	4.66	202	27.357	1027.7	70.8	0.055	1446.6	74
100	-0.494	-0.497	1.450	1.374	34.053	4.64	202	27.366	1027.8	69.9	0.072	1447.2	99
125	-0.377	-0.381	1.587	1.493	34.100	4.62	201	27.398	1028.0	66.8	0.089	1448.2	124
150	-0.372	-0.376	1.612	1.499	34.102	4.62	201	27.399	1028.1	66.6	0.106	1448.7	148
175	-0.351	-0.356	1.652	1.521	34.109	4.62	201	27.404	1028.2	66.1	0.123	1449.2	173
200	-0.322	-0.329	1.700	1.550	34.120	4.61	201	27.412	1028.4	65.3	0.139	1449.7	198
225	-0.295	-0.303	1.747	1.577	34.130	4.61	200	27.419	1028.5	64.7	0.155	1450.3	222
250	-0.237	-0.246	1.825	1.636	34.152	4.59	200	27.434	1028.6	63.2	0.171	1451.0	247
275	-0.172	-0.182	1.910	1.703	34.177	4.57	199	27.451	1028.8	61.6	0.187	1451.7	272
300	-0.127	-0.137	1.975	1.749	34.191	4.56	198	27.460	1028.9	60.7	0.202	1452.3	297
325	-0.002	-0.015	2.121	1.876	34.237	4.52	197	27.491	1029.0	57.9	0.217	1453.4	321
350	0.014	0.001	2.157	1.893	34.245	4.51	196	27.496	1029.2	57.4	0.232	1453.9	346
375	0.033	0.018	2.194	1.912	34.252	4.51	196	27.501	1029.3	57.0	0.246	1454.4	371
400	0.134	0.118	2.317	2.015	34.289	4.50	196	27.526	1029.4	54.7	0.260	1455.3	395
425	0.220	0.203	2.424	2.104	34.324	4.48	195	27.549	1029.6	52.6	0.273	1456.2	420
450	0.282	0.263	2.506	2.167	34.346	4.46	194	27.564	1029.7	51.3	0.286	1456.9	445
475	0.324	0.304	2.568	2.210	34.365	4.46	194	27.577	1029.8	50.2	0.299	1457.5	469
500	0.374	0.353	2.638	2.261	34.392	4.49	195	27.596	1030.0	48.4	0.311	1458.2	494
550	0.631	0.607	2.939	2.525	34.496	4.46	194	27.666	1030.3	42.4	0.334	1460.3	543
600	0.931	0.902	3.281	2.829	34.584	4.34	188	27.717	1030.5	38.1	0.354	1462.6	593
650	1.041	1.009	3.431	2.941	34.618	4.29	187	27.738	1030.8	36.5	0.372	1464.0	642
700	1.122	1.087	3.551	3.024	34.647	4.27	186	27.756	1031.0	35.0	0.390	1465.2	691
750	1.177	1.139	3.645	3.081	34.669	4.26	185	27.770	1031.3	34.0	0.408	1466.3	741
800	1.203	1.161	3.709	3.107	34.684	4.26	185	27.781	1031.5	33.2	0.424	1467.3	790
801	1.202	1.160	3.709	3.106	34.684	4.26	185	27.780	1031.5	33.2	0.425	1467.3	791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1.5
2.0
NBP0901 076
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101 46.50 W
Pressure (dbar)
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300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
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27.2
27.4
27.6
27.8
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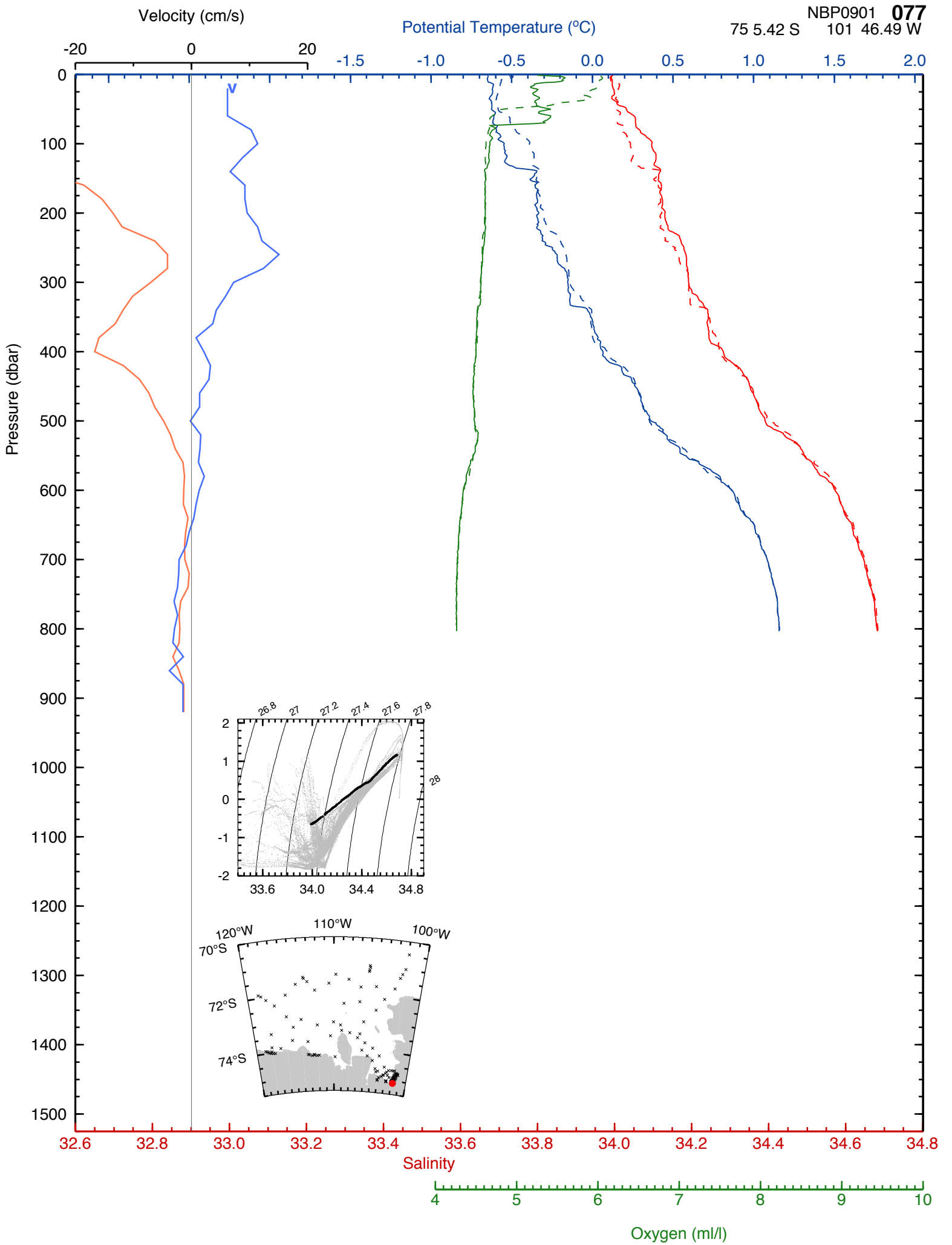
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**077D**	2009/01/25	16:00	-75.0903	-101.7749	803	146	939		4.6	132	-5.3	982.2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.646	-0.646	1.219	1.218	33.996	5.25	228	92.7	27.326	1027.3	73.9	0.001	1444.8			1
25	-0.618	-0.619	1.266	1.247	34.010	5.23	227	93.2	27.336	1027.5	72.9	0.018	1445.3	0.252	284	25
50	-0.624	-0.625	1.279	1.242	34.005	5.42	235	92.9	27.332	1027.6	73.2	0.037	1445.7	0.252	284	50
75	-0.589	-0.591	1.334	1.278	34.025	4.69	204	94.5	27.347	1027.7	71.7	0.055	1446.3	0.297	288	74
100	-0.545	-0.548	1.398	1.323	34.041	4.67	203	94.6	27.358	1027.8	70.5	0.073	1447.0	0.342	289	99
125	-0.541	-0.545	1.421	1.327	34.043	4.66	203	94.6	27.359	1028.0	70.4	0.090	1447.4	0.320	285	124
150	-0.373	-0.378	1.611	1.498	34.104	4.62	201	94.7	27.401	1028.1	66.4	0.107	1448.7	0.239	290	148
175	-0.340	-0.346	1.663	1.531	34.117	4.61	201	94.8	27.411	1028.2	65.5	0.124	1449.2	0.189	299	173
200	-0.326	-0.333	1.696	1.546	34.122	4.61	201	94.8	27.414	1028.4	65.1	0.140	1449.7	0.168	305	198
225	-0.316	-0.324	1.726	1.556	34.128	4.61	200	94.7	27.418	1028.5	64.7	0.156	1450.2	0.161	316	222
250	-0.238	-0.246	1.825	1.636	34.157	4.59	199	94.8	27.438	1028.6	62.8	0.172	1451.0	0.143	337	247
275	-0.193	-0.202	1.890	1.683	34.175	4.58	199	94.9	27.450	1028.8	61.7	0.188	1451.6	0.141	343	272
300	-0.143	-0.154	1.959	1.733	34.192	4.56	198	94.9	27.462	1028.9	60.6	0.203	1452.3	0.106	321	297
325	-0.130	-0.141	1.991	1.746	34.196	4.56	198	94.9	27.464	1029.0	60.4	0.218	1452.8	0.118	300	321
350	0.003	-0.011	2.145	1.882	34.244	4.51	196	94.9	27.496	1029.2	57.4	0.233	1453.8	0.129	289	346
375	0.039	0.024	2.201	1.918	34.260	4.51	196	94.9	27.508	1029.3	56.3	0.247	1454.4	0.148	279	371
400	0.080	0.065	2.262	1.961	34.277	4.50	196	94.9	27.519	1029.4	55.3	0.261	1455.1	0.166	276	395
425	0.199	0.182	2.402	2.082	34.321	4.48	195	94.9	27.548	1029.6	52.7	0.275	1456.1	0.122	286	420
450	0.283	0.265	2.507	2.168	34.353	4.46	194	95.0	27.570	1029.7	50.8	0.288	1456.9	0.089	287	445
475	0.329	0.310	2.573	2.216	34.373	4.47	194	95.3	27.583	1029.8	49.6	0.300	1457.6	0.070	282	469
500	0.384	0.363	2.648	2.272	34.399	4.48	195	95.9	27.602	1030.0	48.0	0.312	1458.2	0.053	272	494
550	0.603	0.578	2.910	2.496	34.492	4.46	194	97.4	27.664	1030.3	42.5	0.334	1460.2	0.030	300	543
600	0.894	0.866	3.244	2.792	34.578	4.34	189	97.7	27.715	1030.5	38.3	0.354	1462.4	0.021	321	593
650	1.035	1.003	3.425	2.935	34.620	4.30	187	97.8	27.740	1030.8	36.3	0.373	1464.0	0.007	298	642
700	1.119	1.083	3.548	3.021	34.650	4.27	186	97.8	27.758	1031.0	34.8	0.391	1465.2	0.020	219	691
750	1.177	1.139	3.646	3.081	34.673	4.26	185	97.8	27.773	1031.3	33.7	0.408	1466.3	0.025	195	741
800	1.200	1.158	3.707	3.104	34.684	4.26	185	97.8	27.780	1031.5	33.2	0.425	1467.2	0.034	218	790
803	1.200	1.158	3.709	3.104	34.683	4.26	185	97.8	27.780	1031.5	33.3	0.426	1467.3			793

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	077U	2009/01/25	16:34	-75.0899	-101.7739	803	146	939	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	-0.516	-0.516	1.350	1.349	33.992	6.04	262	27.317	1027.3	74.7	0.001	1445.4	2
25	-0.585	-0.586	1.299	1.280	33.999	5.88	255	27.326	1027.4	73.8	0.019	1445.5	25
50	-0.583	-0.585	1.321	1.284	34.031	4.83	210	27.351	1027.6	71.3	0.037	1446.0	50
75	-0.503	-0.505	1.422	1.365	34.056	4.67	203	27.368	1027.7	69.7	0.054	1446.8	74
100	-0.388	-0.391	1.558	1.483	34.097	4.62	201	27.396	1027.9	67.0	0.072	1447.8	99
125	-0.362	-0.366	1.603	1.509	34.106	4.61	201	27.403	1028.0	66.3	0.088	1448.3	124
150	-0.343	-0.347	1.642	1.529	34.114	4.62	201	27.408	1028.1	65.8	0.105	1448.8	148
175	-0.321	-0.327	1.683	1.551	34.121	4.62	201	27.413	1028.2	65.3	0.121	1449.3	173
200	-0.295	-0.301	1.728	1.578	34.131	4.61	200	27.420	1028.4	64.6	0.137	1449.9	198
225	-0.263	-0.271	1.780	1.610	34.142	4.60	200	27.427	1028.5	63.9	0.153	1450.4	222
250	-0.171	-0.180	1.892	1.704	34.180	4.58	199	27.453	1028.6	61.5	0.169	1451.3	247
275	-0.148	-0.158	1.935	1.728	34.187	4.57	199	27.458	1028.8	61.0	0.184	1451.8	272
300	-0.128	-0.139	1.974	1.748	34.192	4.56	198	27.461	1028.9	60.6	0.199	1452.3	297
325	-0.052	-0.064	2.070	1.826	34.219	4.54	197	27.479	1029.0	59.0	0.214	1453.1	321
350	0.011	-0.003	2.153	1.890	34.244	4.52	196	27.496	1029.2	57.5	0.229	1453.9	346
375	0.015	0.001	2.177	1.894	34.245	4.52	196	27.496	1029.3	57.4	0.243	1454.3	371
400	0.106	0.090	2.288	1.987	34.282	4.50	196	27.522	1029.4	55.1	0.257	1455.2	395
425	0.224	0.207	2.428	2.108	34.326	4.48	195	27.551	1029.6	52.5	0.271	1456.2	420
450	0.290	0.271	2.514	2.175	34.351	4.47	194	27.568	1029.7	51.0	0.284	1456.9	445
475	0.332	0.312	2.576	2.218	34.371	4.48	195	27.582	1029.8	49.7	0.296	1457.6	469
500	0.375	0.354	2.639	2.263	34.391	4.49	195	27.596	1030.0	48.5	0.309	1458.2	494
550	0.623	0.599	2.931	2.517	34.494	4.47	194	27.664	1030.3	42.5	0.331	1460.3	543
600	0.891	0.863	3.241	2.789	34.572	4.35	189	27.711	1030.5	38.6	0.352	1462.4	593
650	1.036	1.004	3.426	2.937	34.616	4.30	187	27.737	1030.8	36.6	0.370	1464.0	642
700	1.121	1.086	3.550	3.023	34.647	4.27	186	27.756	1031.0	35.1	0.388	1465.2	691
750	1.178	1.139	3.646	3.081	34.670	4.27	185	27.770	1031.3	33.9	0.406	1466.3	741
800	1.200	1.159	3.707	3.104	34.681	4.26	185	27.779	1031.5	33.4	0.422	1467.2	790
803	1.200	1.158	3.709	3.104	34.683	4.26	185	27.780	1031.5	33.3	0.423	1467.3	793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2.0
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75 5.42 S
101 46.49 W
V
Pressure (dbar)
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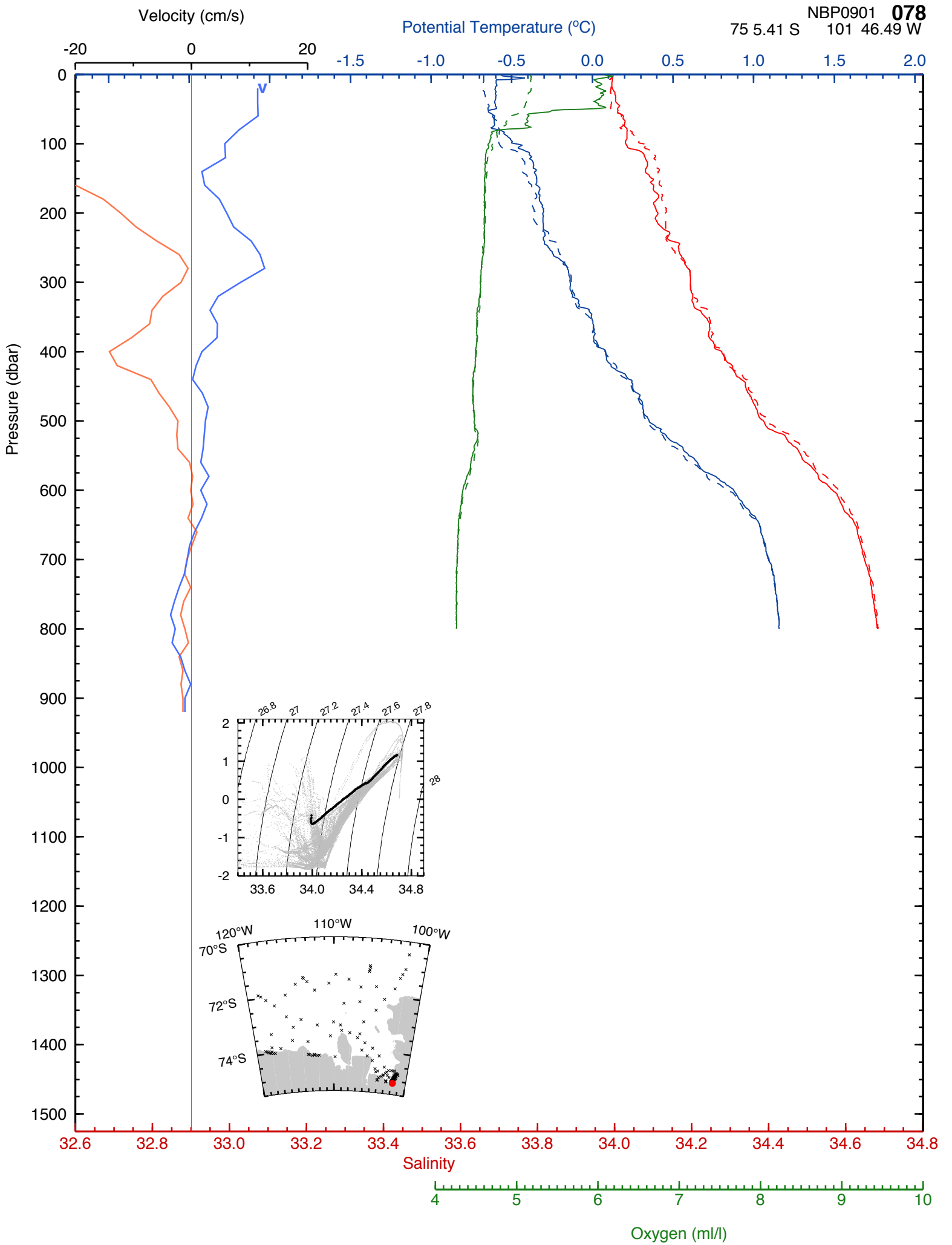
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**078D**	2009/01/25	16:59	-75.0902	-101.7749	800	147	937		3.6	136	-4.8	982.3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.567	-0.567	1.298	1.298	33.990	6.09	265	90.0	27.317	1027.3	74.7	0.001	1445.2			1
25	-0.597	-0.598	1.286	1.267	33.989	6.07	264	90.0	27.318	1027.4	74.6	0.019	1445.4	0.321	291	25
50	-0.607	-0.609	1.295	1.257	33.993	5.80	252	90.3	27.321	1027.6	74.2	0.037	1445.8	0.321	291	50
75	-0.612	-0.614	1.311	1.254	34.020	5.15	224	93.7	27.344	1027.7	72.0	0.055	1446.2	0.296	288	74
100	-0.474	-0.477	1.470	1.395	34.074	4.65	202	94.6	27.382	1027.9	68.3	0.073	1447.3	0.257	283	99
125	-0.368	-0.372	1.597	1.503	34.109	4.62	201	94.6	27.405	1028.0	66.1	0.090	1448.3	0.217	284	124
150	-0.342	-0.346	1.643	1.530	34.116	4.60	200	94.7	27.410	1028.1	65.6	0.106	1448.8	0.211	275	148
175	-0.319	-0.325	1.685	1.553	34.125	4.60	200	94.8	27.416	1028.2	65.0	0.122	1449.3	0.174	284	173
200	-0.300	-0.307	1.723	1.572	34.132	4.60	200	94.8	27.420	1028.4	64.5	0.139	1449.8	0.139	296	198
225	-0.298	-0.306	1.744	1.574	34.132	4.60	200	94.8	27.421	1028.5	64.4	0.155	1450.3	0.120	310	222
250	-0.262	-0.271	1.800	1.612	34.148	4.60	200	94.8	27.432	1028.6	63.4	0.171	1450.8	0.119	337	247
275	-0.163	-0.172	1.920	1.713	34.188	4.57	199	94.9	27.459	1028.8	60.9	0.186	1451.8	0.124	354	272
300	-0.127	-0.138	1.975	1.749	34.197	4.55	198	94.9	27.465	1028.9	60.3	0.201	1452.4	0.094	350	297
325	-0.075	-0.087	2.047	1.802	34.215	4.53	197	95.0	27.477	1029.0	59.2	0.216	1453.0	0.068	312	321
350	0.006	-0.007	2.149	1.885	34.245	4.51	196	95.0	27.497	1029.2	57.3	0.231	1453.9	0.078	297	346
375	0.030	0.016	2.192	1.910	34.255	4.51	196	95.0	27.504	1029.3	56.7	0.245	1454.4	0.099	297	371
400	0.097	0.082	2.280	1.978	34.283	4.49	195	95.0	27.523	1029.4	54.9	0.259	1455.1	0.135	281	395
425	0.158	0.141	2.361	2.041	34.307	4.48	195	95.1	27.540	1029.6	53.5	0.273	1455.9	0.128	274	420
450	0.269	0.250	2.492	2.154	34.347	4.46	194	95.2	27.566	1029.7	51.1	0.286	1456.8	0.067	276	445
475	0.331	0.311	2.574	2.217	34.371	4.46	194	95.1	27.582	1029.8	49.7	0.299	1457.6	0.054	297	469
500	0.373	0.352	2.637	2.261	34.395	4.48	195	95.9	27.599	1030.0	48.2	0.311	1458.2	0.037	314	494
550	0.624	0.599	2.932	2.517	34.499	4.46	194	97.5	27.668	1030.3	42.1	0.333	1460.3	0.028	317	543
600	0.906	0.877	3.256	2.804	34.581	4.34	189	97.7	27.716	1030.5	38.1	0.353	1462.5	0.021	228	593
650	1.069	1.037	3.460	2.970	34.631	4.28	186	97.8	27.746	1030.8	35.7	0.372	1464.1	0.017	312	642
700	1.130	1.095	3.560	3.033	34.654	4.27	185	97.8	27.761	1031.0	34.6	0.389	1465.2	0.007	200	691
750	1.178	1.139	3.646	3.081	34.673	4.26	185	97.8	27.774	1031.3	33.7	0.406	1466.3	0.021	183	741
800	1.198	1.157	3.705	3.102	34.683	4.26	185	97.8	27.780	1031.5	33.2	0.423	1467.2	0.035	205	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	078U	2009/01/25	17:34	-75.0910	-101.7764	800	147	937	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.675	-0.675	1.191	1.190	33.997	5.16	224	27.327	1027.3	73.7	0.001	1444.7	1
25	-0.669	-0.670	1.214	1.196	34.000	5.17	225	27.330	1027.4	73.4	0.018	1445.1	25
50	-0.647	-0.648	1.256	1.219	34.008	5.08	221	27.335	1027.6	72.8	0.037	1445.6	50
75	-0.593	-0.595	1.330	1.274	34.026	4.84	210	27.348	1027.7	71.6	0.055	1446.3	74
100	-0.575	-0.578	1.367	1.292	34.029	4.70	204	27.350	1027.8	71.3	0.073	1446.8	99
125	-0.419	-0.423	1.545	1.451	34.084	4.64	202	27.387	1028.0	67.8	0.090	1448.0	124
150	-0.380	-0.385	1.604	1.491	34.098	4.62	201	27.397	1028.1	66.8	0.107	1448.6	148
175	-0.340	-0.346	1.663	1.531	34.114	4.61	200	27.408	1028.2	65.7	0.123	1449.2	173
200	-0.344	-0.351	1.678	1.527	34.113	4.61	200	27.407	1028.4	65.8	0.140	1449.6	198
225	-0.285	-0.293	1.757	1.587	34.134	4.60	200	27.421	1028.5	64.4	0.156	1450.3	222
250	-0.204	-0.213	1.859	1.671	34.166	4.58	199	27.444	1028.6	62.3	0.172	1451.2	247
275	-0.156	-0.166	1.927	1.720	34.184	4.57	199	27.456	1028.8	61.1	0.188	1451.8	272
300	-0.120	-0.131	1.982	1.757	34.197	4.56	198	27.465	1028.9	60.3	0.203	1452.4	297
325	-0.104	-0.116	2.017	1.772	34.201	4.55	198	27.467	1029.0	60.1	0.218	1452.9	321
350	-0.007	-0.020	2.135	1.871	34.236	4.52	197	27.490	1029.2	58.0	0.233	1453.8	346
375	0.014	0.000	2.176	1.893	34.244	4.51	196	27.496	1029.3	57.4	0.247	1454.3	371
400	0.095	0.080	2.277	1.976	34.278	4.51	196	27.519	1029.4	55.3	0.261	1455.1	395
425	0.169	0.152	2.371	2.051	34.307	4.49	195	27.539	1029.6	53.6	0.275	1455.9	420
450	0.259	0.241	2.482	2.144	34.340	4.47	194	27.561	1029.7	51.6	0.288	1456.8	445
475	0.318	0.299	2.562	2.204	34.361	4.47	194	27.575	1029.8	50.4	0.301	1457.5	469
500	0.362	0.341	2.626	2.249	34.387	4.49	195	27.593	1030.0	48.8	0.313	1458.1	494
550	0.589	0.564	2.896	2.482	34.484	4.48	195	27.658	1030.3	43.0	0.336	1460.1	543
600	0.867	0.838	3.216	2.764	34.566	4.36	190	27.707	1030.5	39.0	0.356	1462.3	593
650	1.063	1.031	3.454	2.964	34.625	4.29	186	27.742	1030.8	36.1	0.375	1464.1	642
700	1.127	1.091	3.556	3.029	34.649	4.27	186	27.757	1031.0	34.9	0.393	1465.2	691
750	1.174	1.136	3.643	3.078	34.669	4.26	185	27.770	1031.3	34.0	0.410	1466.3	741
800	1.198	1.157	3.705	3.102	34.683	4.26	185	27.780	1031.5	33.2	0.427	1467.2	790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300
400
500
600
700
800
900
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1100
1200
1300
1400
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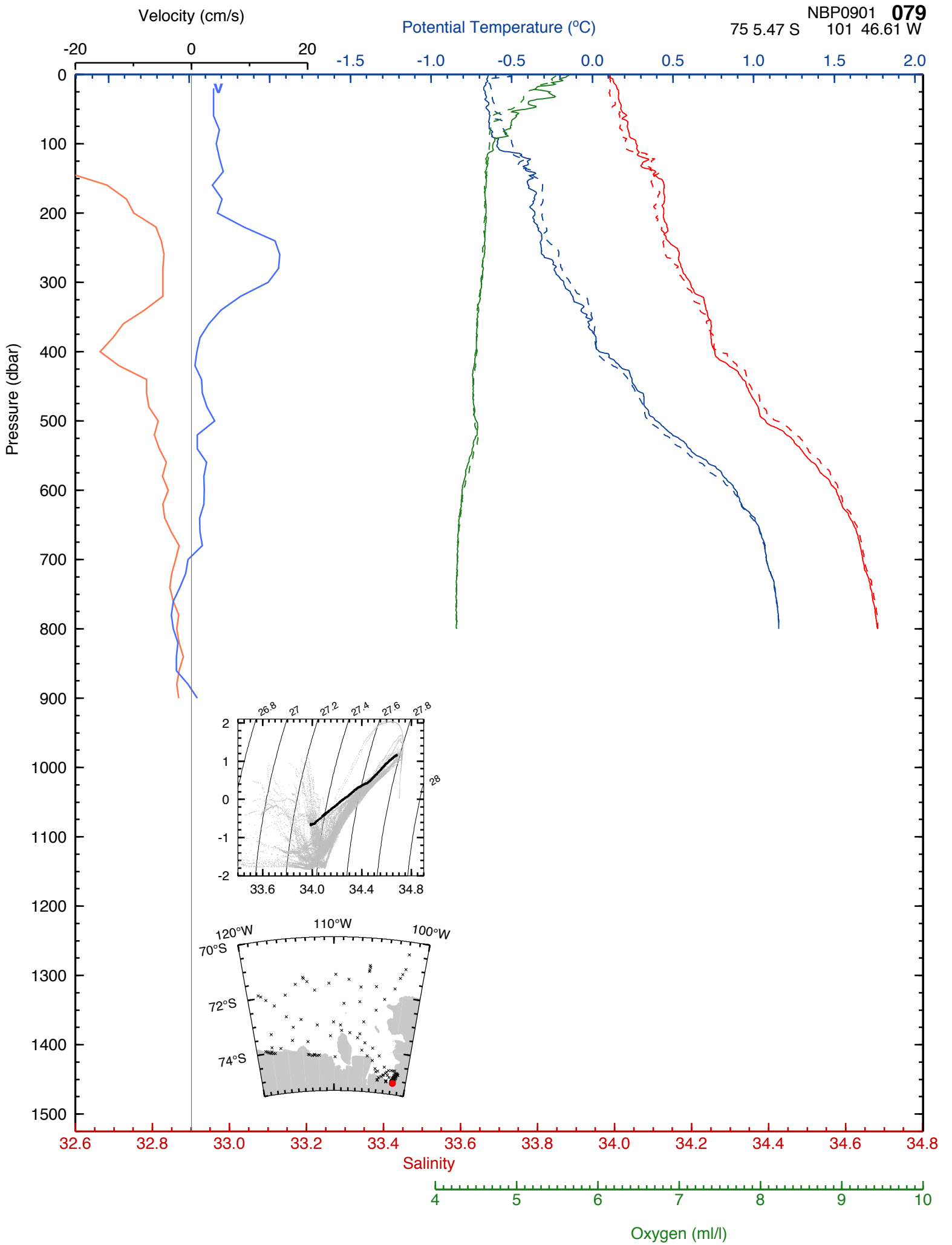
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**079D**	2009/01/25	17:59	-75.0912	-101.7768	800	142	932		4.1	128	-4.8	982.2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.645	-0.645	1.220	1.220	33.989	5.65	245	92.1	27.320	1027.3	74.5	0.001	1444.8			1
25	-0.664	-0.664	1.219	1.200	33.987	5.41	235	92.9	27.319	1027.4	74.4	0.019	1445.1	0.249	279	25
50	-0.652	-0.653	1.251	1.213	34.000	5.11	222	93.4	27.329	1027.6	73.4	0.037	1445.6	0.249	279	50
75	-0.638	-0.640	1.285	1.228	34.014	4.92	214	94.4	27.340	1027.7	72.3	0.055	1446.1	0.285	279	74
100	-0.585	-0.588	1.357	1.282	34.028	4.71	205	94.6	27.349	1027.8	71.4	0.073	1446.8	0.290	279	99
125	-0.399	-0.403	1.565	1.471	34.096	4.63	201	94.7	27.396	1028.0	67.0	0.090	1448.1	0.274	280	124
150	-0.366	-0.371	1.618	1.505	34.107	4.62	201	94.7	27.403	1028.1	66.3	0.107	1448.7	0.195	284	148
175	-0.350	-0.356	1.653	1.521	34.113	4.61	200	94.8	27.407	1028.2	65.8	0.124	1449.2	0.133	291	173
200	-0.351	-0.357	1.671	1.521	34.114	4.62	201	94.8	27.408	1028.4	65.7	0.140	1449.6	0.111	295	198
225	-0.327	-0.335	1.714	1.545	34.123	4.61	201	94.8	27.415	1028.5	65.0	0.157	1450.1	0.114	328	222
250	-0.309	-0.317	1.752	1.564	34.128	4.61	200	94.8	27.418	1028.6	64.7	0.173	1450.6	0.155	341	247
275	-0.229	-0.238	1.852	1.645	34.159	4.58	199	94.8	27.439	1028.7	62.7	0.189	1451.4	0.158	342	272
300	-0.168	-0.178	1.934	1.708	34.184	4.56	198	94.9	27.456	1028.9	61.1	0.204	1452.2	0.144	340	297
325	-0.105	-0.117	2.016	1.772	34.206	4.55	198	94.9	27.471	1029.0	59.7	0.219	1452.9	0.098	328	321
350	-0.026	-0.039	2.116	1.852	34.233	4.52	197	95.0	27.489	1029.2	58.1	0.234	1453.7	0.103	297	346
375	0.028	0.013	2.189	1.907	34.254	4.51	196	95.0	27.503	1029.3	56.7	0.248	1454.4	0.129	280	371
400	0.056	0.040	2.237	1.936	34.266	4.50	196	95.0	27.512	1029.4	56.0	0.262	1454.9	0.152	274	395
425	0.211	0.194	2.415	2.095	34.328	4.47	194	95.1	27.554	1029.6	52.2	0.276	1456.1	0.125	273	420
450	0.284	0.265	2.508	2.169	34.354	4.46	194	95.1	27.570	1029.7	50.8	0.289	1456.9	0.079	283	445
475	0.339	0.319	2.583	2.226	34.377	4.47	194	95.3	27.586	1029.8	49.3	0.301	1457.6	0.079	287	469
500	0.418	0.397	2.684	2.308	34.422	4.51	196	96.3	27.617	1030.0	46.5	0.313	1458.4	0.072	301	494
550	0.674	0.649	2.983	2.569	34.516	4.43	193	97.5	27.678	1030.3	41.2	0.335	1460.5	0.055	284	543
600	0.918	0.890	3.269	2.817	34.584	4.33	188	97.8	27.719	1030.5	37.9	0.354	1462.6	0.049	297	593
650	1.058	1.026	3.449	2.959	34.628	4.29	186	97.8	27.744	1030.8	35.9	0.373	1464.1	0.047	288	642
700	1.114	1.078	3.543	3.016	34.648	4.27	186	97.8	27.757	1031.0	34.9	0.391	1465.2	0.028	281	691
750	1.174	1.135	3.642	3.077	34.672	4.26	185	97.8	27.773	1031.3	33.7	0.408	1466.3	0.042	241	741
800	1.196	1.155	3.703	3.100	34.682	4.26	185	97.8	27.780	1031.5	33.3	0.424	1467.2	0.041	216	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	079U	2009/01/25	18:33	-75.0913	-101.7769	800	142	932	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	-0.521	-0.521	1.345	1.343	33.988	5.48	238	27.314	1027.3	75.0	0.002	1445.4	2
25	-0.621	-0.622	1.263	1.244	34.010	5.13	223	27.336	1027.5	72.8	0.018	1445.3	25
50	-0.610	-0.611	1.294	1.256	34.016	4.93	214	27.340	1027.6	72.4	0.037	1445.8	50
75	-0.553	-0.555	1.370	1.314	34.033	4.68	204	27.352	1027.7	71.2	0.055	1446.5	74
100	-0.496	-0.499	1.447	1.372	34.056	4.67	203	27.368	1027.8	69.6	0.072	1447.2	99
125	-0.437	-0.441	1.527	1.433	34.080	4.64	202	27.385	1028.0	68.0	0.089	1447.9	124
150	-0.334	-0.339	1.651	1.538	34.116	4.62	201	27.409	1028.1	65.7	0.106	1448.8	148
175	-0.300	-0.306	1.704	1.572	34.130	4.61	200	27.419	1028.3	64.8	0.122	1449.4	173
200	-0.304	-0.311	1.719	1.568	34.127	4.61	200	27.417	1028.4	64.8	0.139	1449.8	198
225	-0.274	-0.282	1.768	1.599	34.138	4.60	200	27.424	1028.5	64.1	0.155	1450.4	222
250	-0.213	-0.222	1.850	1.661	34.161	4.58	199	27.440	1028.6	62.7	0.171	1451.1	247
275	-0.188	-0.197	1.894	1.687	34.172	4.58	199	27.448	1028.8	61.9	0.186	1451.6	272
300	-0.128	-0.139	1.974	1.748	34.196	4.56	198	27.464	1028.9	60.4	0.202	1452.3	297
325	-0.018	-0.030	2.105	1.860	34.232	4.52	197	27.488	1029.0	58.2	0.217	1453.3	321
350	0.010	-0.004	2.152	1.888	34.243	4.51	196	27.495	1029.2	57.5	0.231	1453.9	346
375	0.026	0.012	2.188	1.905	34.250	4.51	196	27.500	1029.3	57.1	0.245	1454.4	371
400	0.052	0.036	2.233	1.932	34.260	4.51	196	27.507	1029.4	56.4	0.260	1454.9	395
425	0.182	0.165	2.385	2.065	34.311	4.49	195	27.541	1029.6	53.3	0.273	1456.0	420
450	0.267	0.248	2.490	2.151	34.343	4.47	194	27.562	1029.7	51.5	0.286	1456.8	445
475	0.331	0.311	2.574	2.217	34.368	4.47	194	27.579	1029.8	50.0	0.299	1457.5	469
500	0.373	0.352	2.637	2.261	34.392	4.49	195	27.596	1030.0	48.4	0.311	1458.2	494
550	0.629	0.604	2.936	2.522	34.496	4.46	194	27.665	1030.3	42.4	0.334	1460.3	543
600	0.902	0.873	3.252	2.800	34.575	4.34	189	27.712	1030.5	38.5	0.354	1462.5	593
650	1.050	1.017	3.440	2.950	34.621	4.30	187	27.739	1030.8	36.3	0.373	1464.0	642
700	1.113	1.078	3.542	3.015	34.644	4.27	186	27.754	1031.0	35.2	0.391	1465.2	691
750	1.173	1.135	3.641	3.077	34.669	4.26	185	27.770	1031.3	34.0	0.408	1466.3	741
800	1.196	1.155	3.703	3.100	34.682	4.26	185	27.780	1031.5	33.3	0.425	1467.2	790


Velocity (cm/s)
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Potential Temperature (°C)
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2.0
NBP0901 079
75 5.47 S
101 46.61 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
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-1
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33.6
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34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
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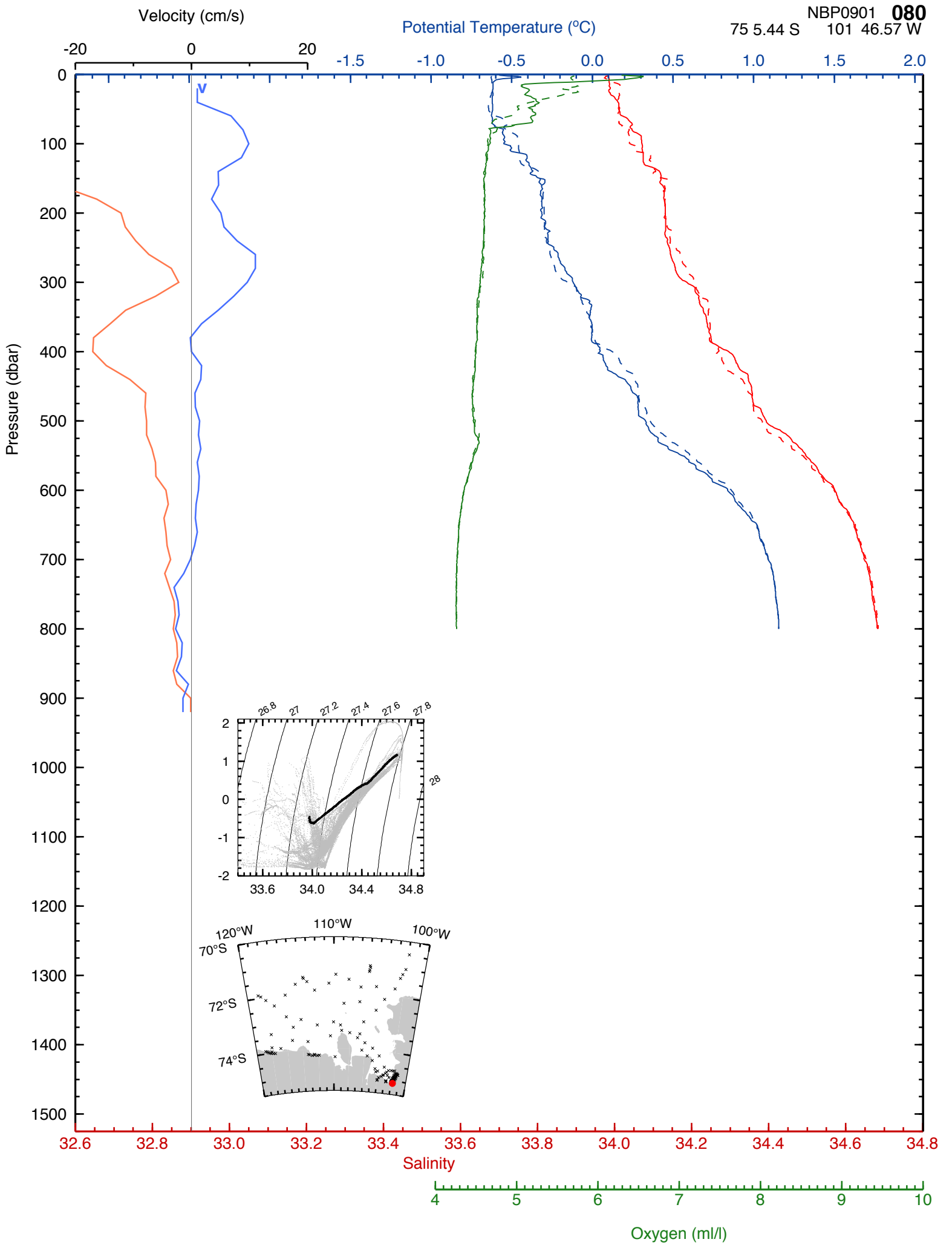
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**080D**	2009/01/25	18:59	-75.0907	-101.7761	800	148	938		3.9	142	-4.4	982.3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.577	-0.577	1.288	1.287	33.984	6.29	273	89.4	27.313	1027.3	75.1	0.001	1445.1			1
25	-0.618	-0.618	1.267	1.248	34.012	5.14	223	93.5	27.337	1027.5	72.7	0.018	1445.4	0.259	272	25
50	-0.617	-0.619	1.286	1.248	34.012	5.19	226	93.5	27.338	1027.6	72.6	0.037	1445.8	0.274	278	50
75	-0.605	-0.608	1.317	1.261	34.018	4.93	214	94.1	27.342	1027.7	72.1	0.055	1446.2	0.304	286	74
100	-0.545	-0.548	1.397	1.322	34.040	4.67	203	94.6	27.357	1027.8	70.7	0.073	1447.0	0.297	289	99
125	-0.404	-0.408	1.561	1.466	34.093	4.63	201	94.7	27.394	1028.0	67.1	0.090	1448.1	0.282	286	124
150	-0.316	-0.321	1.669	1.556	34.129	4.59	200	94.7	27.419	1028.1	64.8	0.106	1449.0	0.244	281	148
175	-0.314	-0.320	1.690	1.558	34.129	4.61	200	94.8	27.419	1028.3	64.8	0.122	1449.4	0.190	282	173
200	-0.307	-0.314	1.716	1.565	34.131	4.60	200	94.8	27.420	1028.4	64.6	0.139	1449.8	0.135	292	198
225	-0.261	-0.269	1.782	1.613	34.149	4.59	200	94.8	27.432	1028.5	63.4	0.155	1450.5	0.127	298	222
250	-0.232	-0.240	1.831	1.642	34.160	4.59	200	94.8	27.440	1028.6	62.7	0.171	1451.0	0.127	316	247
275	-0.177	-0.186	1.906	1.699	34.181	4.57	199	94.8	27.455	1028.8	61.3	0.186	1451.7	0.122	336	272
300	-0.109	-0.120	1.994	1.768	34.206	4.55	198	94.9	27.471	1028.9	59.7	0.201	1452.5	0.101	346	297
325	-0.014	-0.026	2.110	1.865	34.240	4.52	196	94.9	27.494	1029.0	57.6	0.216	1453.3	0.098	318	321
350	-0.008	-0.021	2.135	1.871	34.240	4.52	196	94.9	27.494	1029.2	57.6	0.230	1453.8	0.128	288	346
375	0.011	-0.003	2.172	1.890	34.248	4.51	196	94.9	27.499	1029.3	57.1	0.245	1454.3	0.156	273	371
400	0.062	0.047	2.244	1.943	34.270	4.50	196	95.0	27.514	1029.4	55.8	0.259	1455.0	0.170	270	395
425	0.110	0.093	2.312	1.992	34.289	4.49	195	95.1	27.527	1029.5	54.6	0.272	1455.6	0.148	277	420
450	0.254	0.235	2.477	2.138	34.343	4.46	194	95.2	27.563	1029.7	51.4	0.286	1456.8	0.101	278	445
475	0.301	0.282	2.545	2.187	34.360	4.46	194	95.2	27.574	1029.8	50.4	0.298	1457.4	0.080	275	469
500	0.350	0.329	2.614	2.237	34.383	4.47	194	95.4	27.590	1030.0	49.0	0.311	1458.1	0.079	279	494
550	0.584	0.559	2.891	2.477	34.489	4.47	194	97.5	27.662	1030.3	42.6	0.334	1460.1	0.069	283	543
600	0.867	0.838	3.216	2.764	34.570	4.35	189	97.7	27.710	1030.5	38.6	0.354	1462.3	0.052	284	593
650	1.052	1.020	3.442	2.953	34.625	4.29	186	97.7	27.743	1030.8	36.0	0.373	1464.0	0.048	279	642
700	1.127	1.091	3.556	3.029	34.653	4.26	185	97.8	27.760	1031.0	34.7	0.391	1465.2	0.039	271	691
750	1.174	1.136	3.643	3.078	34.672	4.26	185	97.8	27.773	1031.3	33.7	0.408	1466.3	0.048	232	741
800	1.198	1.156	3.704	3.102	34.684	4.26	185	97.8	27.781	1031.5	33.2	0.424	1467.2	0.038	231	790

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	080U	2009/01/25	19:33	-75.0908	-101.7762	800	148	938	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	-0.625	-0.625	1.240	1.239	33.984	5.71	248	27.315	1027.3	74.9	0.001	1444.9	2
25	-0.621	-0.622	1.262	1.243	33.986	5.76	250	27.316	1027.4	74.7	0.019	1445.3	25
50	-0.642	-0.643	1.261	1.224	34.011	5.03	219	27.337	1027.6	72.6	0.037	1445.7	50
75	-0.545	-0.548	1.379	1.322	34.042	4.71	205	27.358	1027.7	70.6	0.055	1446.5	74
100	-0.458	-0.461	1.487	1.411	34.071	4.65	202	27.378	1027.9	68.7	0.072	1447.4	99
125	-0.445	-0.449	1.519	1.425	34.074	4.64	201	27.381	1028.0	68.4	0.089	1447.9	124
150	-0.321	-0.326	1.664	1.551	34.120	4.60	200	27.412	1028.1	65.5	0.106	1448.9	148
175	-0.301	-0.307	1.703	1.571	34.128	4.60	200	27.418	1028.3	64.9	0.122	1449.4	173
200	-0.294	-0.300	1.729	1.579	34.132	4.60	200	27.420	1028.4	64.6	0.138	1449.9	198
225	-0.291	-0.298	1.751	1.582	34.132	4.61	200	27.421	1028.5	64.5	0.155	1450.3	222
250	-0.261	-0.269	1.801	1.613	34.143	4.60	200	27.427	1028.6	63.8	0.171	1450.8	247
275	-0.227	-0.237	1.854	1.647	34.156	4.59	199	27.436	1028.7	62.9	0.187	1451.4	272
300	-0.144	-0.155	1.958	1.732	34.188	4.57	199	27.458	1028.9	60.9	0.202	1452.3	297
325	-0.057	-0.069	2.065	1.821	34.219	4.54	197	27.479	1029.0	59.0	0.217	1453.1	321
350	-0.005	-0.019	2.137	1.873	34.238	4.53	197	27.492	1029.2	57.8	0.232	1453.8	346
375	0.022	0.008	2.184	1.901	34.249	4.51	196	27.499	1029.3	57.1	0.246	1454.3	371
400	0.138	0.122	2.321	2.020	34.296	4.49	195	27.532	1029.4	54.2	0.260	1455.3	395
425	0.214	0.197	2.418	2.098	34.325	4.48	195	27.551	1029.6	52.5	0.273	1456.1	420
450	0.301	0.282	2.525	2.186	34.355	4.45	194	27.570	1029.7	50.8	0.286	1457.0	445
475	0.314	0.294	2.557	2.199	34.361	4.46	194	27.574	1029.8	50.4	0.299	1457.5	469
500	0.378	0.357	2.642	2.266	34.394	4.49	195	27.597	1030.0	48.4	0.311	1458.2	494
550	0.631	0.606	2.938	2.524	34.497	4.46	194	27.666	1030.3	42.3	0.334	1460.3	543
600	0.890	0.861	3.239	2.788	34.572	4.35	189	27.710	1030.5	38.7	0.354	1462.4	593
650	1.054	1.021	3.444	2.954	34.622	4.29	187	27.740	1030.8	36.3	0.373	1464.0	642
700	1.125	1.089	3.554	3.027	34.648	4.27	186	27.757	1031.0	35.0	0.390	1465.2	691
750	1.174	1.136	3.642	3.078	34.669	4.26	185	27.770	1031.3	34.0	0.407	1466.3	741
800	1.198	1.156	3.704	3.102	34.684	4.26	185	27.781	1031.5	33.2	0.424	1467.2	790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V
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**081D**	2009/01/25	19:59	-75.0909	-101.7761	901	48	938	8	3.3	128	-3.8	982.3

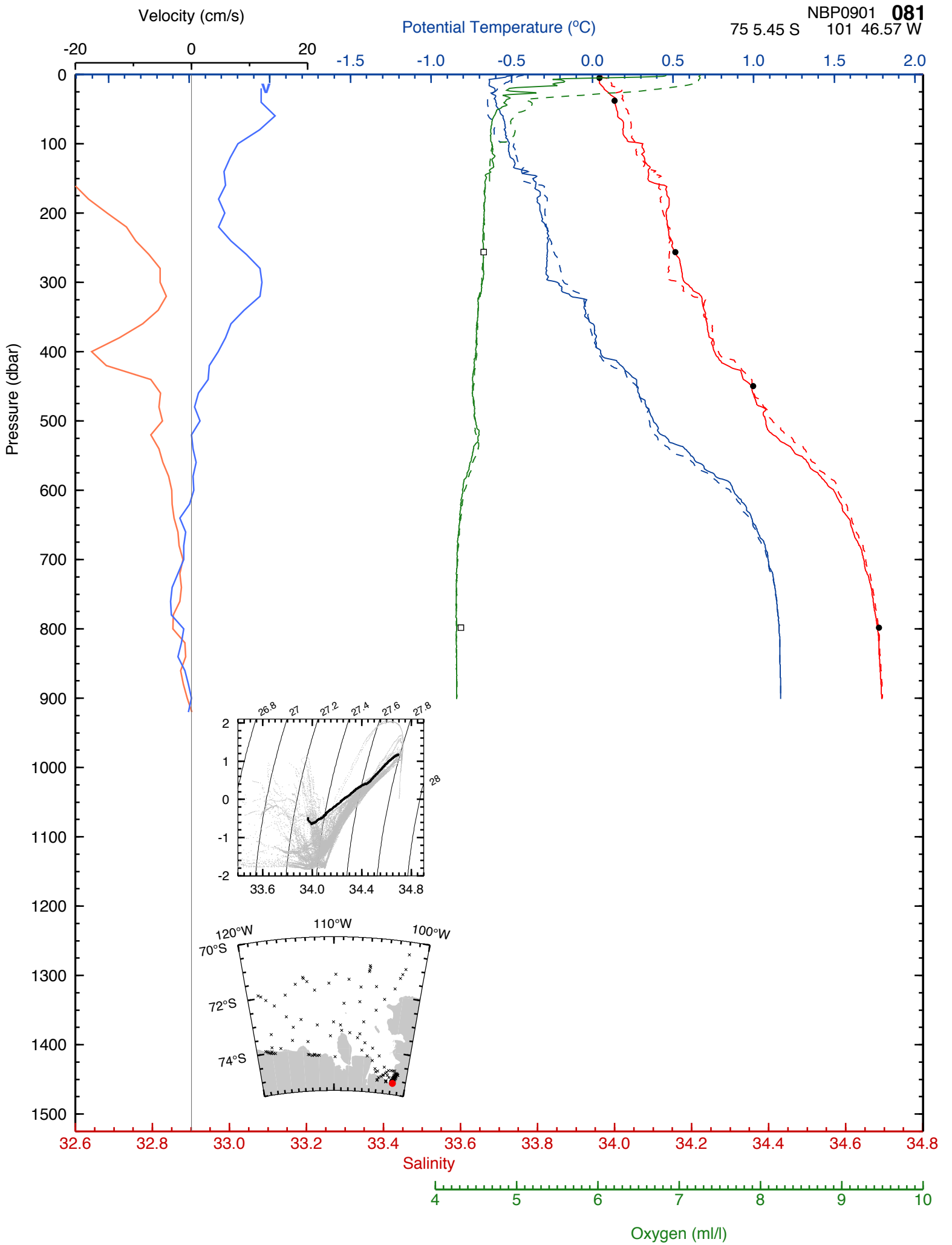
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.488	-0.488	1.375	1.375	33.967	6.84	297	87.4	27.295	1027.3	76.8	0.001	1445.5			1
25	-0.605	-0.606	1.279	1.260	34.014	5.05	220	94.2	27.339	1027.5	72.6	0.019	1445.4	0.247	299	25
50	-0.579	-0.581	1.325	1.288	34.031	4.78	208	94.5	27.351	1027.6	71.3	0.037	1446.0	0.294	297	50
75	-0.538	-0.541	1.385	1.329	34.043	4.69	204	94.7	27.359	1027.7	70.5	0.054	1446.6	0.329	292	74
100	-0.512	-0.515	1.431	1.356	34.056	4.69	204	94.7	27.369	1027.8	69.5	0.072	1447.1	0.302	286	99
125	-0.481	-0.484	1.483	1.389	34.074	4.70	204	94.6	27.382	1028.0	68.3	0.089	1447.7	0.276	284	124
150	-0.365	-0.370	1.619	1.506	34.110	4.63	201	94.7	27.405	1028.1	66.0	0.106	1448.7	0.228	285	148
175	-0.319	-0.325	1.685	1.553	34.125	4.61	200	94.7	27.416	1028.3	65.0	0.122	1449.3	0.192	285	173
200	-0.313	-0.320	1.710	1.559	34.127	4.60	200	94.7	27.417	1028.4	64.9	0.139	1449.8	0.159	291	198
225	-0.268	-0.276	1.775	1.605	34.145	4.59	199	94.7	27.429	1028.5	63.7	0.155	1450.4	0.121	294	222
250	-0.271	-0.280	1.790	1.602	34.143	4.59	200	94.7	27.428	1028.6	63.8	0.171	1450.8	0.119	311	247
275	-0.273	-0.282	1.808	1.600	34.142	4.59	200	94.8	27.427	1028.7	63.7	0.187	1451.2	0.126	330	272
300	-0.208	-0.219	1.892	1.667	34.169	4.57	199	94.8	27.446	1028.9	62.0	0.202	1452.0	0.133	336	297
325	-0.024	-0.036	2.099	1.854	34.236	4.52	197	94.9	27.491	1029.0	57.9	0.218	1453.3	0.125	339	321
350	-0.030	-0.043	2.112	1.848	34.233	4.52	197	94.9	27.490	1029.2	58.0	0.232	1453.7	0.107	322	346
375	0.031	0.017	2.193	1.911	34.256	4.51	196	95.0	27.505	1029.3	56.6	0.246	1454.4	0.123	302	371
400	0.066	0.050	2.247	1.946	34.270	4.50	196	94.9	27.514	1029.4	55.8	0.261	1455.0	0.169	287	395
425	0.214	0.197	2.418	2.098	34.329	4.47	194	95.2	27.554	1029.6	52.1	0.274	1456.2	0.150	282	420
450	0.296	0.278	2.521	2.182	34.359	4.46	194	95.2	27.574	1029.7	50.5	0.287	1457.0	0.071	290	445
475	0.348	0.328	2.592	2.235	34.384	4.47	194	95.4	27.591	1029.8	48.9	0.299	1457.7	0.055	279	469
500	0.399	0.378	2.664	2.288	34.410	4.49	195	96.0	27.609	1030.0	47.3	0.311	1458.3	0.053	283	494
550	0.635	0.611	2.943	2.529	34.503	4.45	194	97.5	27.670	1030.3	41.9	0.333	1460.3	0.055	274	543
600	0.903	0.874	3.253	2.801	34.580	4.34	188	97.7	27.716	1030.5	38.2	0.353	1462.5	0.036	276	593
650	1.040	1.008	3.430	2.941	34.622	4.29	187	97.7	27.741	1030.8	36.2	0.372	1464.0	0.035	237	642
700	1.125	1.089	3.554	3.027	34.652	4.27	185	97.7	27.760	1031.0	34.7	0.390	1465.2	0.022	233	691
750	1.175	1.137	3.644	3.079	34.673	4.26	185	97.8	27.773	1031.3	33.7	0.407	1466.3	0.037	207	741
800	1.198	1.156	3.705	3.102	34.685	4.26	185	97.8	27.782	1031.5	33.1	0.423	1467.2	0.041	235	790
850	1.208	1.163	3.753	3.113	34.691	4.26	185	97.8	27.786	1031.8	32.9	0.440	1468.1	0.025	204	839
900	1.214	1.166	3.796	3.119	34.695	4.26	185	97.7	27.789	1032.0	32.8	0.456	1469.0	0.012	259	888
901	1.214	1.166	3.797	3.119	34.694	4.26	185	97.7	27.788	1032.0	32.8	0.456	1469.0	0.012	259	890

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	081B	2009/01/25	20:22	-75.0904	-101.7757	798	48	938	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
5	-0.502	-0.502	33.959	27.290	7.25	315		33.961				-0.532	23	5
11	-0.528	-0.528	33.960	27.291	7.21	313						-0.579	18	10
38	-0.646	-0.647	33.999	27.328	5.35	233		34.000					15	38
98	-0.570	-0.573	34.039	27.358	4.87	212						-0.514	12	97
257	-0.240	-0.249	34.154	27.436	4.59	200		34.158	4.59	200		-0.447	9	254
345	-0.011	-0.024	34.238	27.492	4.52	197						-0.296	6	341
450	0.290	0.272	34.356	27.572	4.47	194		34.360				-0.235	4	444
798	1.200	1.159	34.684	27.781	4.26	185		34.687	4.31	187		0.033	2,1	788

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	081U	2009/01/25	20:53	-75.0900	-101.7750	798	48	938	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.428	-0.428	1.436	1.435	33.961	7.26	316	27.288	1027.3	77.5	0.001	1445.8	1
25	-0.607	-0.608	1.275	1.257	33.982	6.42	279	27.313	1027.4	75.1	0.019	1445.4	25
50	-0.645	-0.646	1.258	1.220	34.005	5.12	223	27.333	1027.6	73.1	0.038	1445.6	50
75	-0.605	-0.608	1.318	1.261	34.023	4.93	214	27.346	1027.7	71.7	0.056	1446.2	74
100	-0.485	-0.488	1.460	1.384	34.073	4.70	204	27.381	1027.9	68.4	0.074	1447.3	99
125	-0.459	-0.462	1.505	1.411	34.079	4.67	203	27.385	1028.0	68.0	0.091	1447.8	124
150	-0.432	-0.437	1.550	1.438	34.087	4.67	203	27.390	1028.1	67.4	0.107	1448.3	148
175	-0.288	-0.294	1.716	1.585	34.136	4.60	200	27.423	1028.3	64.3	0.124	1449.5	173
200	-0.289	-0.295	1.735	1.584	34.134	4.61	200	27.422	1028.4	64.4	0.140	1449.9	198
225	-0.273	-0.280	1.770	1.600	34.140	4.60	200	27.426	1028.5	64.0	0.156	1450.4	222
250	-0.245	-0.253	1.817	1.629	34.151	4.59	200	27.433	1028.6	63.3	0.172	1450.9	247
275	-0.195	-0.205	1.887	1.680	34.171	4.58	199	27.447	1028.8	61.9	0.187	1451.6	272
300	-0.167	-0.177	1.935	1.709	34.182	4.57	199	27.455	1028.9	61.2	0.203	1452.2	297
325	-0.041	-0.053	2.081	1.837	34.227	4.54	197	27.485	1029.0	58.5	0.218	1453.2	321
350	-0.013	-0.027	2.129	1.865	34.236	4.52	197	27.491	1029.2	57.9	0.232	1453.8	346
375	0.011	-0.003	2.173	1.890	34.245	4.52	196	27.497	1029.3	57.4	0.247	1454.3	371
400	0.047	0.031	2.228	1.927	34.259	4.51	196	27.506	1029.4	56.5	0.261	1454.9	395
425	0.183	0.166	2.386	2.066	34.314	4.49	195	27.544	1029.6	53.1	0.275	1456.0	420
450	0.294	0.276	2.518	2.180	34.357	4.47	194	27.572	1029.7	50.6	0.288	1457.0	445
475	0.326	0.306	2.570	2.212	34.369	4.47	194	27.580	1029.8	49.9	0.300	1457.5	469
500	0.374	0.353	2.638	2.262	34.392	4.49	195	27.597	1030.0	48.4	0.312	1458.2	494
550	0.578	0.554	2.885	2.471	34.481	4.51	196	27.657	1030.3	43.1	0.336	1460.1	543
600	0.880	0.852	3.230	2.778	34.569	4.36	189	27.709	1030.5	38.8	0.356	1462.4	593
650	1.027	0.995	3.417	2.927	34.613	4.31	187	27.735	1030.8	36.7	0.375	1463.9	642
700	1.121	1.086	3.550	3.023	34.647	4.27	186	27.756	1031.0	35.1	0.393	1465.2	691
750	1.175	1.136	3.643	3.078	34.669	4.26	185	27.770	1031.3	34.0	0.410	1466.3	741
800	1.200	1.158	3.706	3.104	34.683	4.26	185	27.780	1031.5	33.2	0.427	1467.2	790
850	1.208	1.163	3.753	3.113	34.688	4.26	185	27.784	1031.8	33.0	0.443	1468.1	839
900	1.214	1.166	3.796	3.119	34.694	4.26	185	27.788	1032.0	32.8	0.460	1469.0	888
901	1.214	1.166	3.797	3.119	34.694	4.26	185	27.788	1032.0	32.8	0.460	1469.0	890


Velocity (cm/s)
-20
0
20
Potential Temperature (°C)
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 081
75 5.45 S
101 46.57 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
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27.8
28
2
1
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-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**082D**	2009/01/26	04:01	-74.6433	-101.7158	609	9	611	5	4.3	55	-1.7	981.1

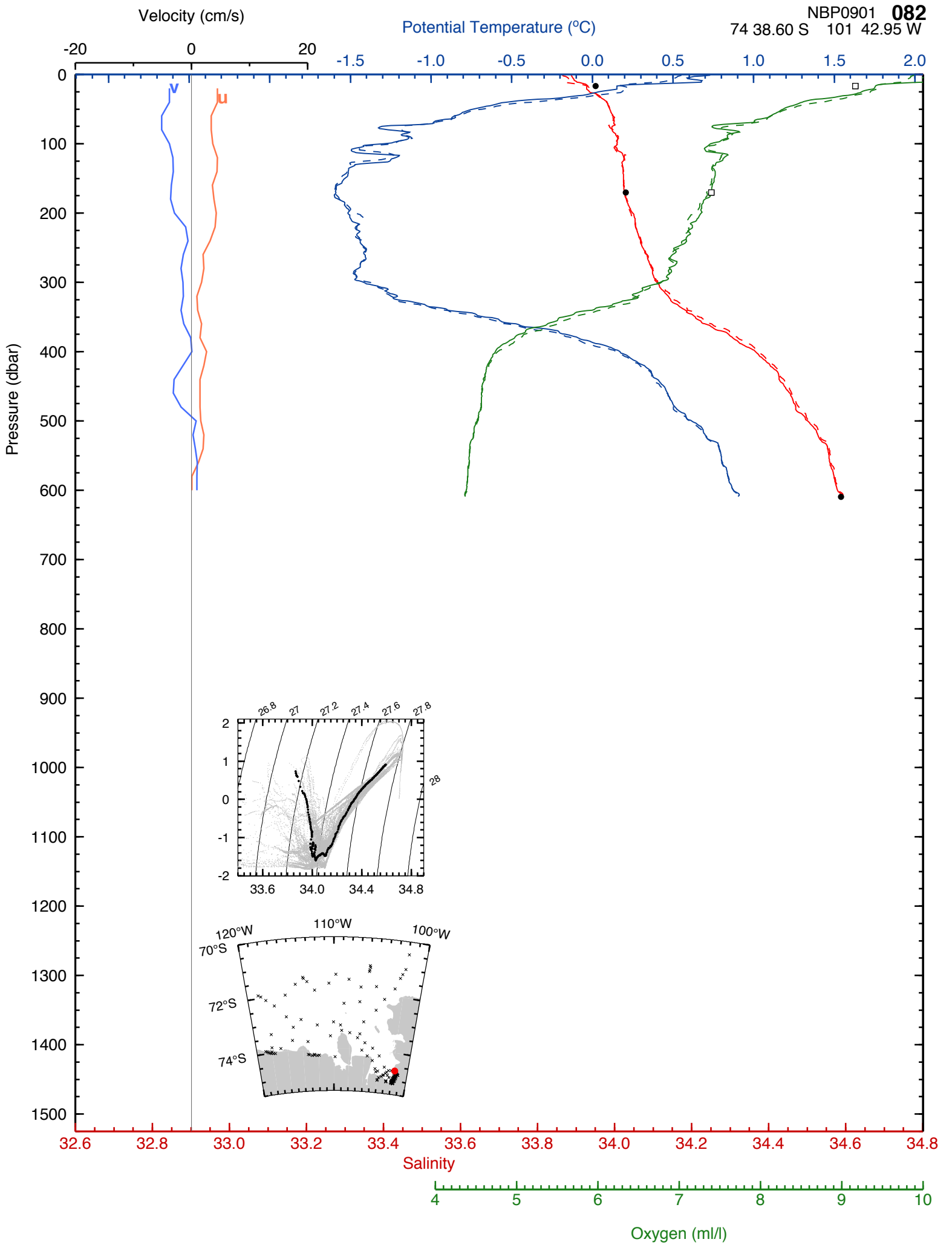
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.730	0.730	2.588	2.587	33.865	10.14	441	66.8	27.149	1027.2	90.6	0.001	1451.0			1
25	0.036	0.035	1.917	1.898	33.947	9.24	402	81.0	27.254	1027.4	80.6	0.022	1448.3	0.059	130	25
50	-0.741	-0.743	1.161	1.123	33.988	8.27	360	86.0	27.323	1027.6	74.0	0.041	1445.2	0.060	138	50
75	-1.304	-1.306	0.617	0.560	33.987	7.40	322	85.2	27.343	1027.7	71.9	0.059	1442.9	0.061	146	74
100	-1.290	-1.293	0.650	0.575	34.000	7.38	321	87.0	27.353	1027.8	70.8	0.077	1443.4	0.053	136	99
125	-1.255	-1.258	0.706	0.612	34.026	7.52	327	90.0	27.373	1028.0	68.8	0.094	1444.0	0.055	125	124
150	-1.533	-1.537	0.446	0.333	34.024	7.43	323	95.1	27.380	1028.1	67.9	0.111	1443.1	0.052	129	148
175	-1.596	-1.600	0.402	0.271	34.027	7.38	321	96.2	27.385	1028.2	67.3	0.128	1443.2	0.052	133	173
200	-1.512	-1.516	0.506	0.356	34.042	7.27	316	95.8	27.394	1028.4	66.3	0.145	1444.0	0.052	125	198
225	-1.446	-1.452	0.592	0.422	34.060	7.11	309	95.8	27.407	1028.5	65.0	0.161	1444.8	0.041	103	222
250	-1.402	-1.408	0.656	0.467	34.077	6.94	302	96.7	27.419	1028.6	63.8	0.177	1445.4	0.030	109	247
275	-1.432	-1.439	0.645	0.438	34.094	6.95	302	96.9	27.434	1028.8	62.2	0.193	1445.7	0.026	128	272
300	-1.411	-1.418	0.687	0.461	34.113	6.78	295	97.1	27.449	1028.9	60.7	0.208	1446.2	0.024	131	297
325	-1.199	-1.207	0.920	0.675	34.154	6.40	278	97.2	27.475	1029.0	58.3	0.223	1447.7	0.017	147	321
350	-0.651	-0.662	1.490	1.226	34.221	5.56	242	96.9	27.508	1029.2	55.6	0.238	1450.8	0.021	142	346
375	-0.154	-0.167	2.011	1.729	34.307	5.03	219	96.7	27.555	1029.3	51.7	0.251	1453.6	0.018	110	371
400	0.186	0.170	2.374	2.072	34.374	4.74	206	96.9	27.592	1029.5	48.6	0.264	1455.7	0.023	89	395
425	0.367	0.349	2.576	2.256	34.423	4.63	201	97.1	27.621	1029.6	46.0	0.275	1457.0	0.026	126	420
450	0.463	0.444	2.693	2.354	34.452	4.57	199	97.3	27.639	1029.8	44.5	0.287	1457.9	0.034	154	445
475	0.519	0.498	2.768	2.411	34.472	4.57	198	97.3	27.653	1029.9	43.3	0.298	1458.5	0.029	148	469
500	0.638	0.616	2.909	2.532	34.509	4.51	196	97.5	27.675	1030.0	41.4	0.308	1459.5	0.019	86	494
550	0.823	0.798	3.135	2.721	34.560	4.42	192	97.5	27.705	1030.3	39.0	0.328	1461.3	0.020	67	543
600	0.903	0.874	3.253	2.801	34.582	4.38	190	97.5	27.717	1030.5	38.0	0.348	1462.5	0.009	6	593
609	0.932	0.903	3.290	2.831	34.590	4.37	190	97.4	27.722	1030.6	37.7	0.351	1462.8			602

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	082B	2009/01/26	04:17	-74.6436	-101.7153	609	9	611	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
16	0.189	0.188	33.927	27.230	9.21	400	33.951	9.17	399			9	16
107	-1.352	-1.354	34.017	27.369	7.36	320						7	106
170	-1.567	-1.571	34.031	27.387	7.33	319	34.029	7.40	322			5	168
263	-1.417	-1.423	34.091	27.431	6.88	299						3	260
609	0.936	0.907	34.590	27.722	4.37	190	34.588					1	602

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	082U	2009/01/26	04:36	-74.6440	-101.7145	609	9	611	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.552	0.552	2.412	2.411	33.887	9.89	430	27.178	1027.2	87.9	0.001	1450.2	1
25	0.184	0.183	2.064	2.045	33.935	9.35	407	27.237	1027.4	82.3	0.021	1449.0	25
50	-0.686	-0.687	1.216	1.179	33.988	8.34	363	27.321	1027.6	74.2	0.041	1445.4	50
75	-1.187	-1.188	0.735	0.678	33.994	7.60	330	27.345	1027.7	71.7	0.059	1443.5	74
100	-1.234	-1.237	0.706	0.631	34.006	7.48	325	27.356	1027.8	70.5	0.077	1443.7	99
125	-1.413	-1.415	0.548	0.454	34.022	7.46	324	27.375	1028.0	68.6	0.094	1443.2	124
150	-1.553	-1.556	0.426	0.313	34.023	7.40	322	27.380	1028.1	67.9	0.111	1443.0	148
175	-1.580	-1.584	0.418	0.286	34.028	7.34	319	27.385	1028.2	67.3	0.128	1443.3	173
200	-1.469	-1.473	0.550	0.399	34.047	7.21	313	27.397	1028.4	66.1	0.145	1444.2	198
225	-1.460	-1.465	0.578	0.409	34.058	7.12	309	27.406	1028.5	65.1	0.161	1444.7	222
250	-1.411	-1.417	0.646	0.458	34.073	7.01	305	27.417	1028.6	64.0	0.177	1445.3	247
275	-1.434	-1.441	0.643	0.436	34.092	6.94	301	27.433	1028.8	62.3	0.193	1445.7	272
300	-1.372	-1.380	0.725	0.499	34.110	6.77	294	27.445	1028.9	61.0	0.208	1446.4	297
325	-1.198	-1.206	0.920	0.676	34.145	6.41	278	27.468	1029.0	59.0	0.223	1447.7	321
350	-0.695	-0.706	1.445	1.182	34.210	5.71	248	27.501	1029.2	56.2	0.238	1450.5	346
375	-0.177	-0.191	1.987	1.705	34.297	5.09	221	27.548	1029.3	52.3	0.251	1453.5	371
400	0.167	0.151	2.354	2.053	34.366	4.77	207	27.587	1029.5	49.1	0.264	1455.6	395
425	0.351	0.333	2.560	2.240	34.414	4.63	201	27.615	1029.6	46.6	0.276	1456.9	420
450	0.441	0.422	2.670	2.331	34.441	4.59	199	27.632	1029.8	45.2	0.288	1457.8	445
475	0.514	0.493	2.764	2.406	34.467	4.56	198	27.648	1029.9	43.7	0.299	1458.5	469
500	0.628	0.605	2.898	2.521	34.501	4.52	196	27.669	1030.0	41.9	0.309	1459.5	494
550	0.823	0.797	3.134	2.720	34.557	4.42	192	27.702	1030.3	39.2	0.330	1461.3	543
600	0.902	0.874	3.252	2.801	34.579	4.38	191	27.715	1030.5	38.2	0.349	1462.5	593
609	0.932	0.903	3.290	2.831	34.590	4.37	190	27.722	1030.6	37.7	0.352	1462.8	602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1.5
2.0
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Pressure (dbar)
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100
200
300
400
500
600
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800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**083D**	2009/01/26	05:16	-74.6435	-101.9235	630	9	631	5	4.7	34	-1.6	981.2

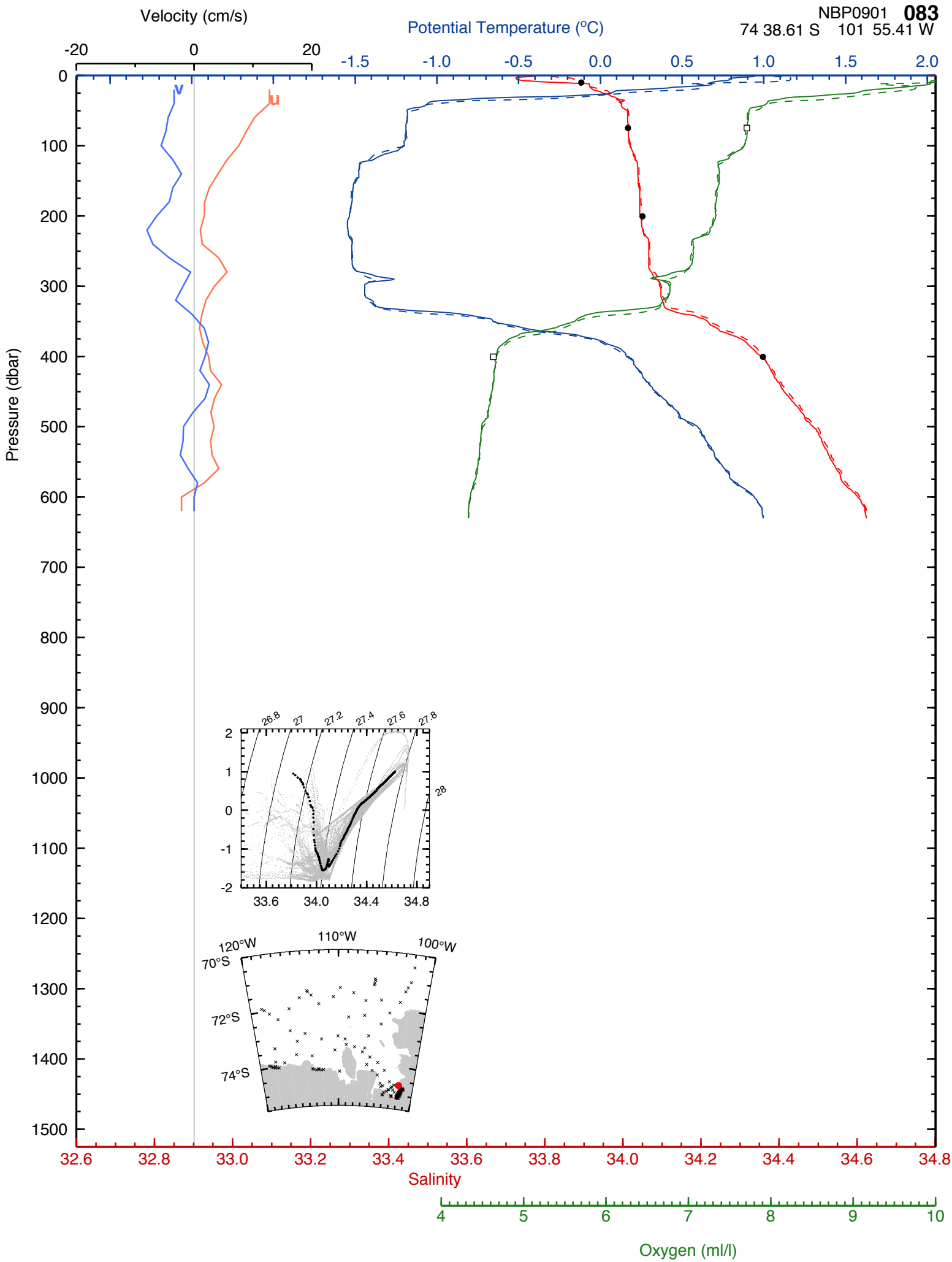
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.947	0.947	2.802	2.802	33.816	10.25	446	69.5	27.097	1027.1	95.6	0.001	1451.9			1
25	0.070	0.069	1.952	1.933	33.968	9.01	392	76.6	27.270	1027.4	79.2	0.022	1448.5	0.132	105	25
50	-1.182	-1.183	0.721	0.684	34.014	7.74	336	91.1	27.360	1027.6	70.4	0.040	1443.1	0.122	109	50
75	-1.189	-1.190	0.734	0.677	34.015	7.72	336	91.2	27.362	1027.7	70.1	0.058	1443.5	0.104	117	74
100	-1.198	-1.200	0.744	0.669	34.020	7.68	334	91.0	27.366	1027.8	69.6	0.075	1443.9	0.094	126	99
125	-1.471	-1.474	0.490	0.396	34.040	7.36	320	93.6	27.392	1028.0	67.0	0.092	1443.0	0.063	122	124
150	-1.491	-1.494	0.490	0.377	34.041	7.37	320	94.5	27.393	1028.1	66.7	0.109	1443.3	0.045	128	148
175	-1.514	-1.518	0.485	0.353	34.046	7.34	319	94.9	27.397	1028.2	66.1	0.126	1443.6	0.045	152	173
200	-1.531	-1.535	0.488	0.337	34.047	7.33	319	95.3	27.399	1028.4	65.8	0.142	1443.9	0.063	164	198
225	-1.537	-1.542	0.501	0.331	34.053	7.25	315	95.8	27.404	1028.5	65.2	0.159	1444.3	0.080	172	222
250	-1.515	-1.521	0.542	0.354	34.069	7.06	307	96.4	27.416	1028.6	64.0	0.175	1444.8	0.067	157	247
275	-1.498	-1.505	0.578	0.371	34.072	6.99	304	96.5	27.419	1028.7	63.6	0.191	1445.3	0.057	112	272
300	-1.435	-1.442	0.662	0.436	34.098	6.77	294	96.8	27.438	1028.9	61.7	0.206	1446.1	0.043	115	297
325	-1.378	-1.386	0.738	0.493	34.110	6.67	290	96.8	27.446	1029.0	60.9	0.222	1446.8	0.035	144	321
350	-0.643	-0.654	1.498	1.234	34.220	5.62	244	96.6	27.508	1029.2	55.7	0.236	1450.8	0.015	81	346
375	-0.022	-0.036	2.143	1.861	34.314	4.83	210	96.6	27.554	1029.3	51.9	0.249	1454.2	0.024	30	371
400	0.176	0.160	2.362	2.061	34.355	4.67	203	96.7	27.577	1029.5	50.0	0.262	1455.6	0.030	48	395
425	0.271	0.254	2.478	2.158	34.390	4.64	202	96.8	27.600	1029.6	47.9	0.274	1456.5	0.030	70	420
450	0.359	0.340	2.587	2.248	34.422	4.61	200	97.0	27.621	1029.8	46.1	0.286	1457.3	0.051	61	445
475	0.474	0.454	2.723	2.365	34.458	4.57	199	97.3	27.644	1029.9	44.1	0.297	1458.3	0.035	77	469
500	0.616	0.593	2.886	2.509	34.498	4.49	195	97.2	27.667	1030.0	42.1	0.308	1459.4	0.035	111	494
550	0.752	0.726	3.062	2.648	34.541	4.45	193	97.6	27.694	1030.3	39.9	0.329	1460.9	0.040	123	543
600	0.971	0.941	3.322	2.870	34.607	4.35	189	97.6	27.733	1030.6	36.6	0.348	1462.8	0.020	197	593
630	1.024	0.993	3.399	2.925	34.623	4.33	188	97.6	27.743	1030.7	35.9	0.359	1463.6			622

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	083B	2009/01/26	05:33	-74.6436	-101.9222	630	9	631	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	0.464	0.464	33.920	27.209	9.50	413	33.894					9	10
75	-1.188	-1.190	34.016	27.363	7.69	334	34.013	7.71	335			7	74
200	-1.536	-1.540	34.046	27.398	7.29	317	34.050					5	198
400	0.235	0.219	34.373	27.588	4.65	202	34.359	4.63	201			3	396
630	1.016	0.985	34.621	27.742	4.33	188						1	622

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	083U	2009/01/26	05:50	-74.6436	-101.9225	630	9	631	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	1.062	1.062	2.915	2.914	33.774	10.27	447	27.055	1027.1	99.5	0.001	1452.3	1
25	0.148	0.147	2.029	2.010	33.950	9.29	404	27.251	1027.4	81.0	0.023	1448.8	25
50	-1.151	-1.152	0.752	0.715	34.011	7.80	339	27.357	1027.6	70.7	0.042	1443.3	50
75	-1.191	-1.192	0.732	0.675	34.015	7.69	334	27.362	1027.7	70.1	0.059	1443.5	74
100	-1.201	-1.204	0.740	0.665	34.018	7.68	334	27.365	1027.8	69.7	0.077	1443.8	99
125	-1.464	-1.466	0.498	0.404	34.037	7.39	321	27.389	1028.0	67.2	0.094	1443.0	124
150	-1.498	-1.501	0.482	0.369	34.039	7.36	320	27.392	1028.1	66.8	0.111	1443.3	148
175	-1.522	-1.526	0.477	0.346	34.043	7.33	319	27.395	1028.2	66.3	0.127	1443.6	173
200	-1.533	-1.537	0.486	0.335	34.047	7.34	319	27.399	1028.4	65.9	0.144	1443.9	198
225	-1.532	-1.537	0.506	0.337	34.054	7.21	313	27.405	1028.5	65.1	0.160	1444.3	222
250	-1.513	-1.518	0.544	0.356	34.066	7.04	306	27.414	1028.6	64.2	0.176	1444.9	247
275	-1.503	-1.509	0.573	0.366	34.067	7.01	305	27.415	1028.7	64.0	0.192	1445.3	272
300	-1.431	-1.439	0.665	0.439	34.095	6.76	294	27.435	1028.9	62.0	0.208	1446.1	297
325	-1.387	-1.395	0.729	0.484	34.105	6.68	290	27.441	1029.0	61.3	0.223	1446.7	321
350	-0.639	-0.650	1.502	1.238	34.217	5.64	245	27.505	1029.2	56.0	0.238	1450.8	346
375	-0.050	-0.065	2.114	1.832	34.302	4.91	213	27.546	1029.3	52.7	0.252	1454.1	371
400	0.183	0.167	2.370	2.069	34.356	4.66	203	27.577	1029.5	50.0	0.265	1455.6	395
425	0.267	0.249	2.474	2.154	34.385	4.64	202	27.596	1029.6	48.3	0.277	1456.5	420
450	0.348	0.329	2.575	2.236	34.413	4.62	201	27.614	1029.7	46.7	0.289	1457.3	445
475	0.469	0.448	2.717	2.360	34.452	4.58	199	27.639	1029.9	44.6	0.300	1458.3	469
500	0.599	0.577	2.868	2.492	34.488	4.51	196	27.660	1030.0	42.8	0.311	1459.3	494
550	0.749	0.724	3.059	2.645	34.537	4.46	194	27.691	1030.3	40.2	0.332	1460.9	543
600	0.965	0.936	3.316	2.864	34.602	4.36	189	27.730	1030.6	37.0	0.351	1462.8	593
630	1.024	0.993	3.399	2.925	34.623	4.33	188	27.743	1030.7	35.9	0.362	1463.6	622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Pressure (dbar)
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300
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120°W
110°W
100°W
70°S
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74°S
32.6
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Salinity
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8
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**084D**	2009/01/26	06:36	-74.6443	-102.1742	621	10	623	4	4.0	48	-1.6	981.3

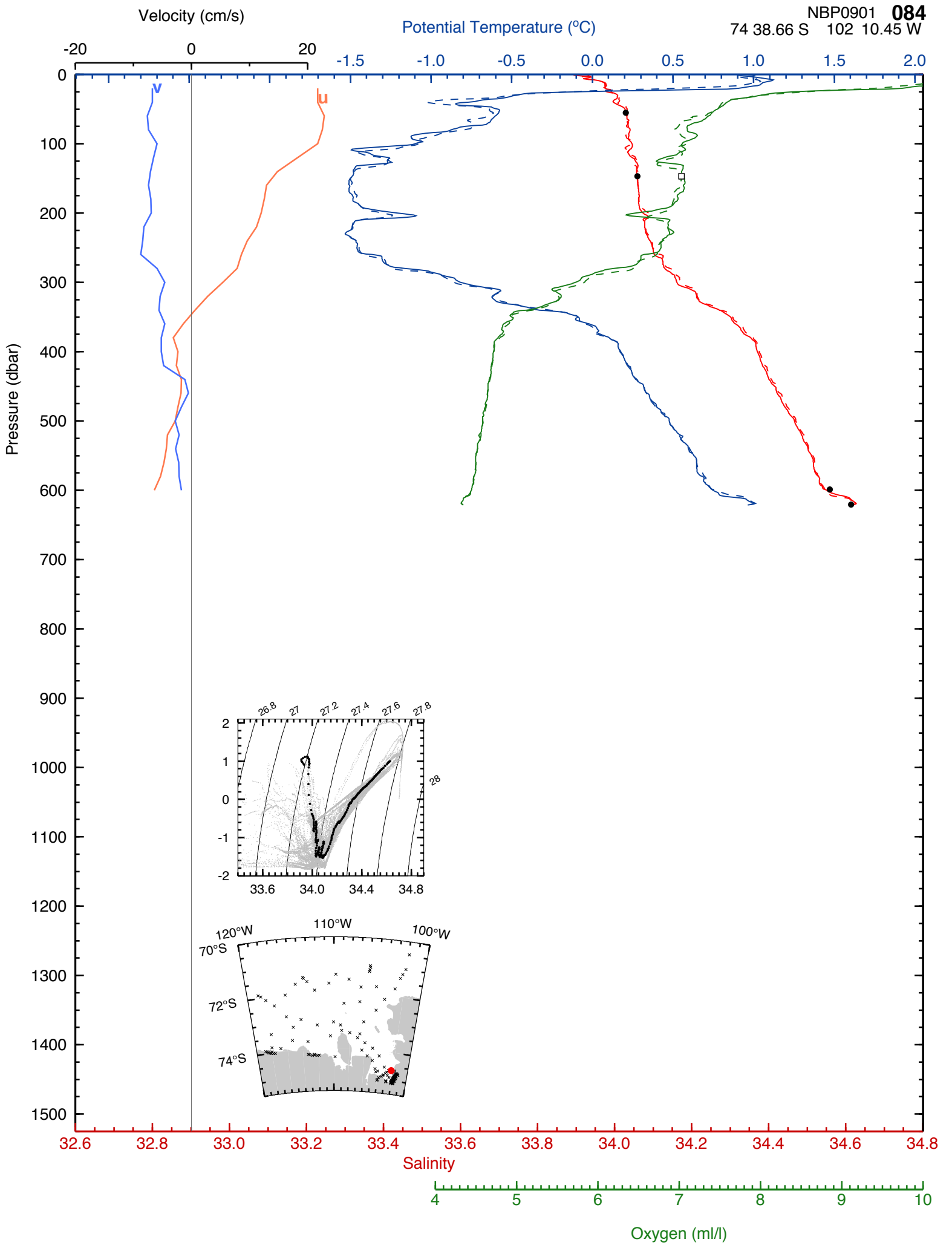
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.903	0.903	2.765	2.764	33.935	10.07	438	69.0	27.195	1027.2	86.3	0.001	1451.8			1
25	-0.116	-0.117	1.767	1.748	33.980	8.39	365	68.8	27.289	1027.4	77.3	0.021	1447.7	0.227	107	25
50	-0.582	-0.584	1.322	1.284	34.033	7.46	325	86.7	27.353	1027.6	71.2	0.039	1446.0	0.234	108	50
75	-0.786	-0.788	1.137	1.081	34.031	7.10	309	88.6	27.360	1027.7	70.4	0.057	1445.4	0.238	108	74
100	-1.096	-1.098	0.847	0.772	34.044	7.04	306	91.4	27.382	1027.9	68.1	0.074	1444.4	0.226	105	99
125	-1.253	-1.256	0.709	0.615	34.060	6.72	292	94.4	27.401	1028.0	66.2	0.091	1444.0	0.189	111	124
150	-1.498	-1.502	0.483	0.370	34.059	7.06	307	95.6	27.408	1028.1	65.3	0.108	1443.3	0.158	117	148
175	-1.483	-1.487	0.517	0.386	34.064	6.98	303	95.9	27.411	1028.3	64.9	0.124	1443.8	0.145	119	173
200	-1.203	-1.208	0.817	0.667	34.089	6.46	281	95.7	27.422	1028.4	63.8	0.140	1445.5	0.139	120	198
225	-1.498	-1.503	0.541	0.372	34.081	6.91	300	96.7	27.426	1028.5	63.2	0.156	1444.5	0.138	127	222
250	-1.454	-1.460	0.605	0.416	34.099	6.77	294	97.0	27.439	1028.6	61.8	0.172	1445.2	0.126	133	247
275	-1.263	-1.270	0.817	0.610	34.130	6.46	281	96.9	27.458	1028.8	60.0	0.187	1446.5	0.108	130	272
300	-0.808	-0.817	1.293	1.067	34.173	5.72	249	96.4	27.476	1028.9	58.7	0.202	1449.2	0.076	130	297
325	-0.597	-0.608	1.525	1.280	34.219	5.52	240	96.3	27.505	1029.1	56.1	0.216	1450.6	0.061	154	321
350	-0.077	-0.090	2.069	1.805	34.306	4.94	215	96.4	27.551	1029.2	52.2	0.229	1453.5	0.054	181	346
375	0.065	0.051	2.232	1.950	34.347	4.81	209	96.7	27.577	1029.4	49.9	0.242	1454.7	0.055	204	371
400	0.191	0.175	2.379	2.078	34.375	4.71	205	96.8	27.593	1029.5	48.5	0.254	1455.7	0.058	206	395
425	0.256	0.238	2.463	2.143	34.396	4.68	204	96.9	27.606	1029.6	47.4	0.266	1456.4	0.055	208	420
450	0.337	0.318	2.565	2.226	34.421	4.65	202	97.0	27.622	1029.8	46.0	0.278	1457.2	0.020	241	445
475	0.411	0.391	2.659	2.301	34.444	4.62	201	97.2	27.636	1029.9	44.7	0.289	1458.0	0.024	245	469
500	0.497	0.475	2.766	2.389	34.471	4.58	199	97.3	27.652	1030.0	43.3	0.300	1458.9	0.037	228	494
550	0.655	0.630	2.964	2.550	34.514	4.50	195	97.5	27.678	1030.3	41.2	0.322	1460.5	0.051	239	543
600	0.776	0.748	3.124	2.672	34.548	4.44	193	97.5	27.698	1030.5	39.6	0.342	1461.9	0.063	253	593
621	0.994	0.963	3.361	2.894	34.614	4.34	189	97.4	27.737	1030.7	36.4	0.350	1463.3			613

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	084B	2009/01/26	06:52	-74.6442	-102.1733	620	10	623	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
55	-0.611	-0.613	34.032	27.353	7.35	319	34.030					7	54
147	-1.493	-1.496	34.060	27.408	7.02	305	34.059	7.03	306			5	145
599	0.785	0.757	34.549	27.698	4.45	193	34.559					3	592
620	1.008	0.977	34.621	27.742	4.32	188	34.614					1	613

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	084U	2009/01/26	07:10	-74.6451	-102.1726	620	10	623	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	1.011	1.011	2.871	2.870	33.893	10.45	454	27.155	1027.2	90.1	0.001	1452.3	1
25	-0.144	-0.145	1.739	1.720	33.991	8.55	372	27.299	1027.4	76.4	0.021	1447.5	25
50	-0.636	-0.638	1.268	1.230	34.027	7.46	324	27.351	1027.6	71.4	0.039	1445.7	50
75	-0.749	-0.751	1.175	1.118	34.036	6.99	304	27.362	1027.7	70.2	0.057	1445.6	74
100	-1.077	-1.079	0.866	0.791	34.045	7.08	308	27.383	1027.9	68.1	0.074	1444.5	99
125	-1.268	-1.271	0.695	0.600	34.054	6.80	295	27.396	1028.0	66.6	0.091	1444.0	124
150	-1.496	-1.500	0.485	0.372	34.059	7.03	306	27.407	1028.1	65.3	0.107	1443.3	148
175	-1.454	-1.458	0.546	0.415	34.064	6.92	301	27.410	1028.3	64.9	0.124	1443.9	173
200	-1.292	-1.297	0.728	0.577	34.074	6.77	294	27.414	1028.4	64.6	0.140	1445.1	198
225	-1.496	-1.501	0.543	0.373	34.080	6.87	299	27.424	1028.5	63.3	0.156	1444.5	222
250	-1.441	-1.447	0.618	0.430	34.099	6.74	293	27.438	1028.6	61.9	0.171	1445.2	247
275	-1.256	-1.264	0.823	0.616	34.127	6.47	281	27.455	1028.8	60.4	0.187	1446.6	272
300	-0.849	-0.858	1.251	1.025	34.162	5.83	254	27.468	1028.9	59.3	0.202	1449.0	297
325	-0.577	-0.588	1.545	1.300	34.218	5.51	239	27.503	1029.1	56.3	0.216	1450.7	321
350	-0.075	-0.088	2.071	1.808	34.301	4.91	214	27.547	1029.2	52.6	0.230	1453.6	346
375	0.045	0.031	2.212	1.930	34.337	4.85	211	27.570	1029.3	50.5	0.243	1454.6	371
400	0.188	0.172	2.375	2.074	34.371	4.72	205	27.589	1029.5	48.9	0.255	1455.7	395
425	0.250	0.233	2.458	2.138	34.390	4.69	204	27.601	1029.6	47.8	0.267	1456.4	420
450	0.336	0.317	2.564	2.225	34.416	4.65	202	27.618	1029.7	46.4	0.279	1457.2	445
475	0.396	0.376	2.644	2.286	34.437	4.63	201	27.631	1029.9	45.2	0.290	1458.0	469
500	0.497	0.476	2.766	2.389	34.467	4.58	199	27.650	1030.0	43.6	0.301	1458.9	494
550	0.659	0.634	2.968	2.554	34.511	4.50	196	27.676	1030.3	41.4	0.323	1460.5	543
600	0.791	0.763	3.139	2.687	34.550	4.44	193	27.699	1030.5	39.5	0.343	1461.9	593
621	0.994	0.963	3.361	2.894	34.614	4.34	189	27.737	1030.7	36.4	0.351	1463.3	613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0
20
v
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1.0
1.5
2.0
NBP0901 084
74 38.66 S 102 10.45 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**085D**	2009/01/26	08:57	-74.6576	-102.5838	752	7	750	5	3.6	48	-1.9	981.5

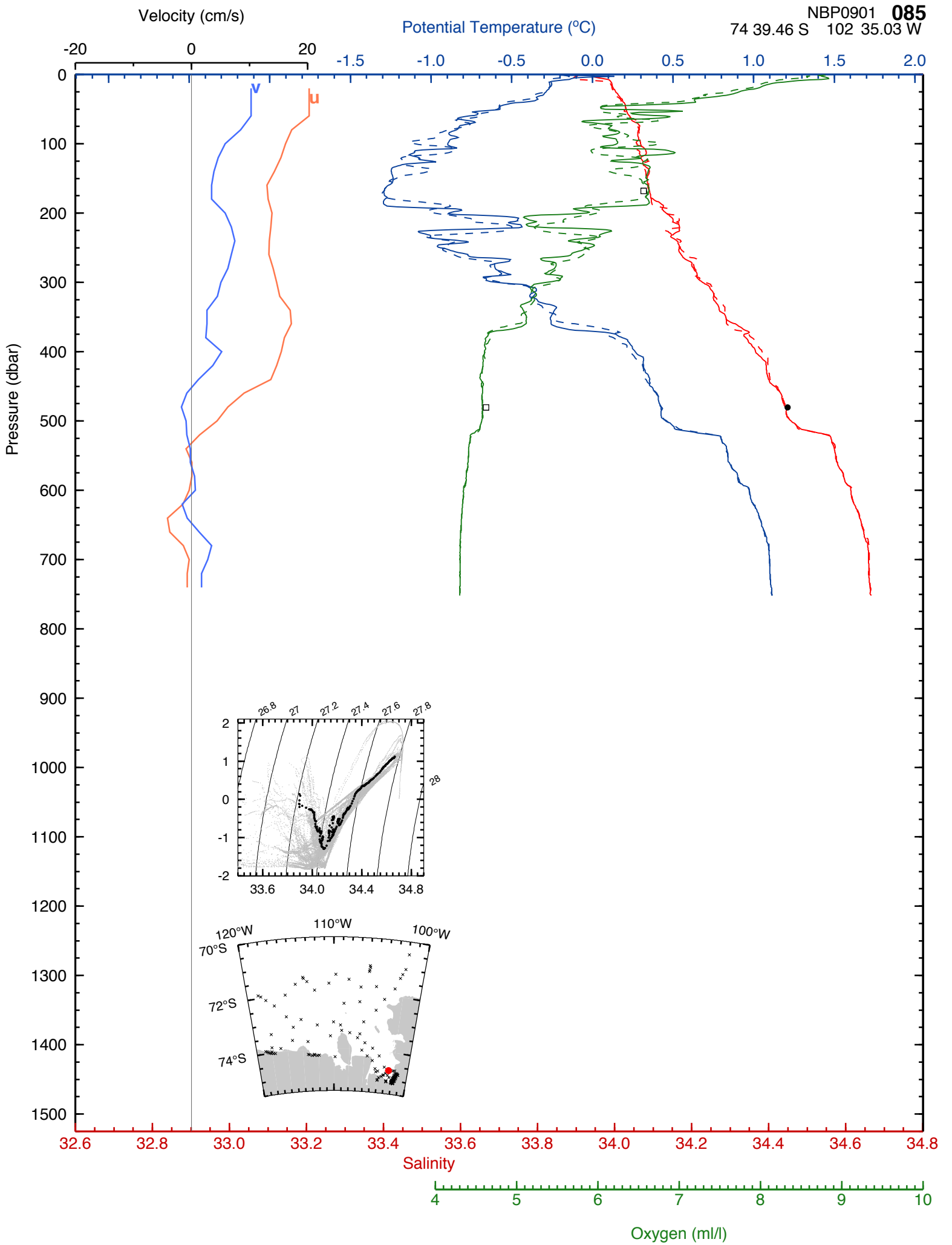
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.202	-0.202	1.658	1.658	33.898	8.78	382	79.0	27.227	1027.2	83.3	0.001	1446.8			1
25	-0.288	-0.289	1.596	1.577	33.999	7.74	336	83.6	27.312	1027.4	75.1	0.020	1446.9	0.228	63	25
50	-0.572	-0.574	1.332	1.294	34.030	6.09	265	91.2	27.350	1027.6	71.4	0.038	1446.0	0.228	63	50
75	-0.824	-0.826	1.101	1.044	34.060	6.16	268	93.9	27.385	1027.7	68.0	0.055	1445.3	0.203	64	74
100	-0.894	-0.896	1.051	0.975	34.068	6.24	271	94.9	27.394	1027.9	67.1	0.072	1445.4	0.173	70	99
125	-0.987	-0.990	0.978	0.884	34.089	6.16	268	94.1	27.414	1028.0	65.0	0.089	1445.3	0.159	74	124
150	-1.232	-1.236	0.750	0.637	34.083	6.59	287	95.5	27.419	1028.1	64.4	0.105	1444.6	0.143	75	148
175	-1.284	-1.289	0.718	0.586	34.093	6.59	287	95.8	27.428	1028.3	63.3	0.121	1444.8	0.136	75	173
200	-0.883	-0.889	1.140	0.989	34.133	5.86	255	95.5	27.446	1028.4	61.7	0.137	1447.1	0.149	68	198
225	-0.995	-1.001	1.047	0.878	34.131	6.16	268	95.7	27.449	1028.5	61.3	0.152	1447.0	0.153	63	222
250	-0.933	-0.941	1.130	0.941	34.169	5.89	256	96.3	27.477	1028.7	58.6	0.167	1447.8	0.153	61	247
275	-0.599	-0.608	1.485	1.278	34.205	5.48	238	96.3	27.493	1028.8	57.3	0.181	1449.8	0.152	65	272
300	-0.583	-0.593	1.521	1.295	34.235	5.37	233	96.9	27.517	1028.9	55.0	0.195	1450.3	0.156	70	297
325	-0.332	-0.343	1.793	1.549	34.267	5.18	225	96.9	27.531	1029.1	53.9	0.209	1451.9	0.160	74	321
350	-0.246	-0.259	1.899	1.635	34.288	5.12	223	97.0	27.544	1029.2	52.6	0.222	1452.8	0.173	81	346
375	0.159	0.145	2.327	2.044	34.348	4.65	202	96.4	27.572	1029.4	50.4	0.235	1455.1	0.168	81	371
400	0.281	0.265	2.469	2.168	34.383	4.61	200	96.6	27.594	1029.5	48.5	0.248	1456.1	0.163	74	395
425	0.340	0.322	2.548	2.228	34.399	4.58	199	96.5	27.604	1029.6	47.7	0.259	1456.8	0.152	76	420
450	0.381	0.362	2.609	2.270	34.421	4.58	199	96.8	27.619	1029.7	46.3	0.271	1457.5	0.127	87	445
475	0.435	0.415	2.683	2.326	34.442	4.58	199	96.8	27.633	1029.9	45.1	0.283	1458.1	0.079	100	469
500	0.482	0.460	2.750	2.374	34.462	4.57	199	97.0	27.646	1030.0	43.9	0.294	1458.8	0.051	103	494
550	0.866	0.840	3.178	2.764	34.576	4.41	192	97.6	27.715	1030.3	38.1	0.314	1461.5	0.008	240	543
600	1.003	0.973	3.355	2.903	34.615	4.35	189	97.6	27.738	1030.6	36.3	0.333	1463.0	0.007	214	593
650	1.081	1.049	3.473	2.983	34.642	4.32	188	97.7	27.755	1030.8	35.0	0.350	1464.2	0.042	263	642
700	1.134	1.098	3.564	3.036	34.661	4.31	187	97.7	27.767	1031.1	34.1	0.368	1465.3	0.032	346	691
750	1.152	1.113	3.620	3.055	34.667	4.30	187	97.7	27.770	1031.3	34.0	0.385	1466.2	0.018	338	741
752	1.153	1.115	3.623	3.056	34.667	4.30	187	97.6	27.770	1031.3	34.0	0.385	1466.2			743

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	085B	2009/01/26	09:16	-74.6575	-102.5849	752	7	750	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
28	-0.343	-0.344	34.007	27.322	7.46	324						11	28
168	-1.288	-1.292	34.091	27.427	6.60	287		6.56	285			9	166
215	-0.701	-0.707	34.158	27.460	5.43	236						7	212
344	-0.231	-0.243	34.284	27.540	5.07	221						5	340
480	0.449	0.428	34.446	27.635	4.57	199	34.450	4.62	201			3	475

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	085U	2009/01/26	09:38	-74.6569	-102.5830	752	7	750	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.179	-0.179	1.683	1.682	33.941	8.80	383	27.260	1027.3	80.1	0.001	1446.9	1
25	-0.290	-0.291	1.594	1.575	34.003	7.61	331	27.316	1027.4	74.8	0.019	1446.9	25
50	-0.588	-0.590	1.316	1.278	34.030	6.02	262	27.351	1027.6	71.4	0.037	1445.9	50
75	-0.792	-0.794	1.133	1.077	34.065	5.89	256	27.387	1027.7	67.8	0.055	1445.4	74
100	-1.099	-1.102	0.844	0.769	34.058	6.76	294	27.394	1027.9	67.0	0.072	1444.4	99
125	-1.169	-1.173	0.794	0.700	34.073	6.57	286	27.408	1028.0	65.5	0.088	1444.5	124
150	-1.214	-1.218	0.769	0.656	34.085	6.50	283	27.419	1028.1	64.3	0.104	1444.7	148
175	-1.294	-1.298	0.708	0.577	34.094	6.60	287	27.429	1028.3	63.2	0.120	1444.7	173
200	-0.975	-0.981	1.048	0.898	34.134	6.00	261	27.451	1028.4	61.3	0.136	1446.7	198
225	-0.533	-0.540	1.511	1.342	34.168	5.29	230	27.461	1028.5	60.5	0.151	1449.2	222
250	-0.888	-0.896	1.175	0.986	34.170	5.83	253	27.477	1028.7	58.7	0.166	1448.0	247
275	-0.624	-0.633	1.459	1.252	34.200	5.46	237	27.490	1028.8	57.5	0.181	1449.7	272
300	-0.560	-0.569	1.544	1.318	34.228	5.47	238	27.511	1028.9	55.6	0.195	1450.4	297
325	-0.367	-0.379	1.757	1.512	34.257	5.22	227	27.525	1029.1	54.4	0.209	1451.7	321
350	-0.218	-0.230	1.927	1.664	34.289	5.06	220	27.544	1029.2	52.7	0.222	1452.9	346
375	0.118	0.103	2.284	2.002	34.337	4.68	203	27.565	1029.3	51.0	0.235	1454.9	371
400	0.247	0.231	2.434	2.133	34.366	4.61	200	27.582	1029.5	49.6	0.247	1455.9	395
425	0.334	0.317	2.542	2.222	34.394	4.58	199	27.600	1029.6	48.0	0.260	1456.8	420
450	0.385	0.366	2.613	2.274	34.416	4.57	199	27.614	1029.7	46.7	0.271	1457.5	445
475	0.436	0.416	2.684	2.326	34.439	4.58	199	27.631	1029.9	45.3	0.283	1458.1	469
500	0.476	0.455	2.744	2.368	34.458	4.57	199	27.644	1030.0	44.1	0.294	1458.8	494
550	0.865	0.839	3.177	2.763	34.574	4.41	192	27.713	1030.3	38.3	0.314	1461.5	543
600	1.001	0.972	3.353	2.901	34.614	4.35	189	27.737	1030.6	36.4	0.333	1463.0	593
650	1.082	1.050	3.474	2.984	34.641	4.32	188	27.754	1030.8	35.1	0.351	1464.2	642
700	1.136	1.100	3.566	3.038	34.660	4.30	187	27.765	1031.1	34.2	0.368	1465.3	691
750	1.150	1.111	3.618	3.053	34.664	4.30	187	27.768	1031.3	34.1	0.385	1466.2	741
752	1.153	1.115	3.623	3.056	34.667	4.30	187	27.770	1031.3	34.0	0.386	1466.2	743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v
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Potential Temperature (°C)
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Pressure (dbar)
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300
400
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600
700
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1000
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1200
1300
1400
1500
26.8
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27.2
27.4
27.6
27.8
28
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-2
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34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
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33.2
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33.6
33.8
34.0
34.2
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34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**086D**	2009/01/26	10:44	-74.7177	-102.8035	1012	8	1007	2	3.5	62	-1.4	981.4

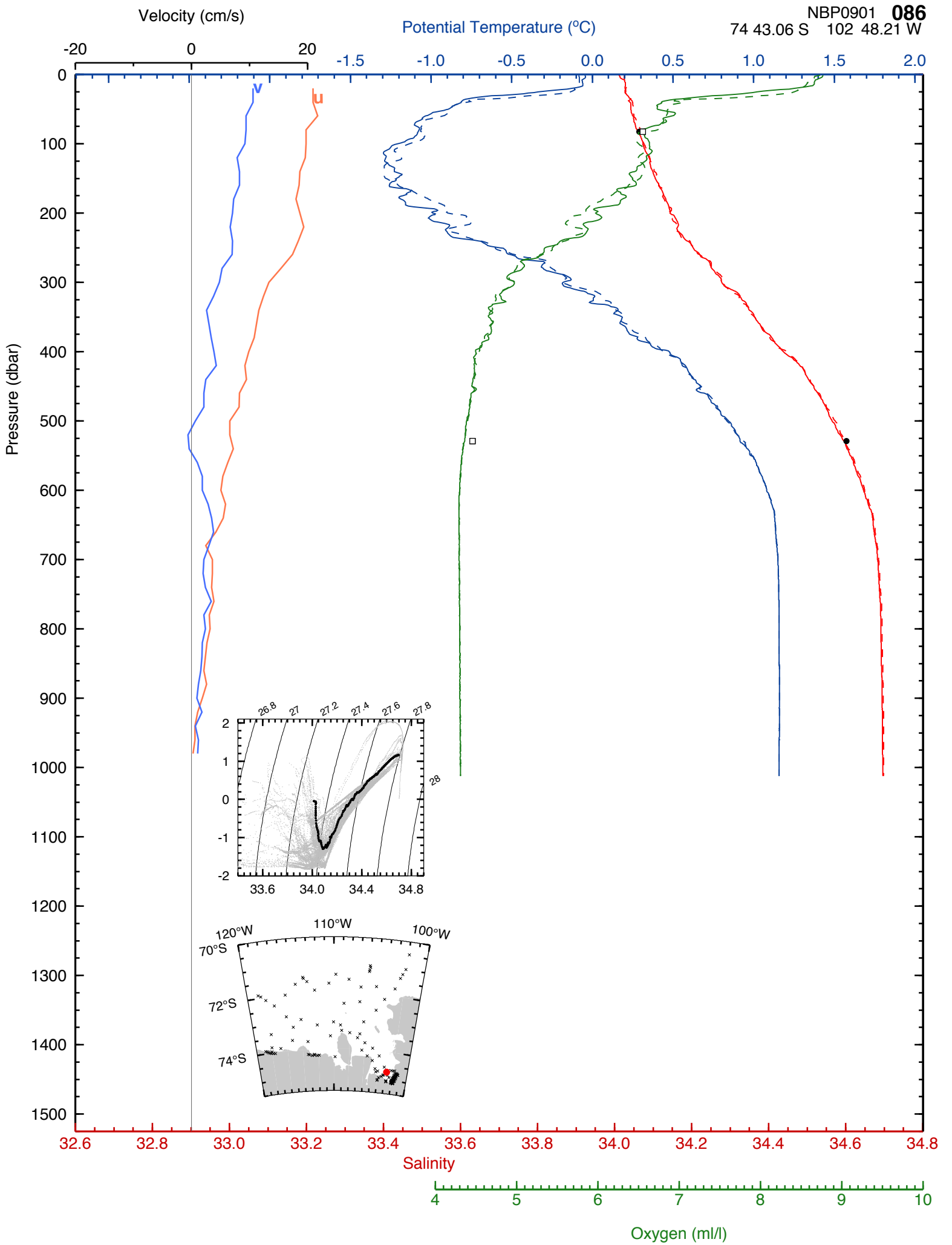
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.046	-0.046	1.820	1.819	34.011	8.77	381	80.6	27.311	1027.3	75.4	0.001	1447.6			1
25	-0.334	-0.334	1.552	1.533	34.027	7.96	346	81.6	27.337	1027.5	72.8	0.019	1446.7	0.234	63	25
50	-0.893	-0.894	1.013	0.975	34.049	6.73	293	92.7	27.379	1027.6	68.7	0.036	1444.5	0.235	65	50
75	-1.086	-1.088	0.839	0.782	34.063	6.67	290	94.1	27.398	1027.8	66.8	0.053	1444.0	0.223	65	74
100	-1.204	-1.206	0.741	0.666	34.076	6.64	288	95.1	27.412	1027.9	65.3	0.070	1443.9	0.217	65	99
125	-1.285	-1.288	0.679	0.585	34.093	6.58	286	95.7	27.428	1028.0	63.6	0.086	1444.0	0.210	68	124
150	-1.213	-1.216	0.772	0.659	34.110	6.43	279	95.9	27.440	1028.2	62.4	0.101	1444.7	0.204	66	148
175	-1.168	-1.173	0.836	0.704	34.126	6.34	276	96.1	27.451	1028.3	61.3	0.117	1445.4	0.197	67	173
200	-0.985	-0.990	1.040	0.889	34.148	5.97	260	96.4	27.463	1028.4	60.1	0.132	1446.7	0.199	69	198
225	-0.902	-0.909	1.141	0.972	34.164	5.87	255	96.2	27.473	1028.5	59.2	0.147	1447.5	0.203	71	222
250	-0.562	-0.570	1.503	1.315	34.211	5.35	233	96.3	27.496	1028.7	57.1	0.161	1449.5	0.194	69	247
275	-0.302	-0.311	1.784	1.577	34.251	5.09	221	95.9	27.517	1028.8	55.3	0.175	1451.2	0.173	70	272
300	-0.171	-0.182	1.936	1.710	34.281	4.97	216	96.2	27.535	1029.0	53.7	0.189	1452.3	0.145	70	297
325	0.019	0.006	2.147	1.902	34.325	4.82	209	96.5	27.561	1029.1	51.4	0.202	1453.6	0.129	73	321
350	0.198	0.184	2.347	2.084	34.364	4.66	202	96.5	27.583	1029.2	49.5	0.215	1454.9	0.118	77	346
375	0.247	0.232	2.417	2.134	34.393	4.67	203	96.9	27.604	1029.4	47.6	0.227	1455.6	0.114	74	371
400	0.493	0.476	2.685	2.384	34.446	4.49	195	96.8	27.632	1029.5	45.2	0.239	1457.2	0.108	69	395
425	0.607	0.588	2.820	2.500	34.490	4.48	195	97.1	27.661	1029.7	42.6	0.249	1458.2	0.102	65	420
450	0.694	0.674	2.927	2.588	34.518	4.45	194	97.4	27.679	1029.8	41.1	0.260	1459.0	0.095	75	445
475	0.772	0.750	3.025	2.668	34.546	4.42	192	97.6	27.697	1029.9	39.6	0.270	1459.8	0.086	76	469
500	0.867	0.844	3.142	2.765	34.572	4.38	191	97.6	27.712	1030.1	38.3	0.280	1460.7	0.072	81	494
550	1.012	0.985	3.326	2.912	34.615	4.33	188	97.7	27.737	1030.3	36.3	0.298	1462.2	0.071	91	543
600	1.111	1.081	3.465	3.013	34.649	4.30	187	97.7	27.758	1030.6	34.6	0.316	1463.5	0.055	70	593
650	1.166	1.133	3.559	3.070	34.675	4.29	186	97.7	27.775	1030.8	33.2	0.333	1464.6	0.064	57	642
700	1.186	1.150	3.617	3.090	34.686	4.29	186	97.8	27.783	1031.1	32.7	0.349	1465.5	0.041	51	691
750	1.194	1.155	3.664	3.099	34.691	4.30	187	97.8	27.787	1031.3	32.5	0.366	1466.4	0.042	55	741
800	1.199	1.158	3.707	3.104	34.694	4.30	187	97.7	27.789	1031.5	32.4	0.382	1467.3	0.038	55	790
850	1.203	1.158	3.748	3.108	34.696	4.30	187	97.8	27.790	1031.8	32.5	0.398	1468.1	0.030	53	839
900	1.206	1.159	3.789	3.111	34.698	4.30	187	97.7	27.792	1032.0	32.5	0.414	1469.0	0.026	65	888
950	1.209	1.159	3.830	3.114	34.699	4.31	187	97.7	27.793	1032.2	32.5	0.431	1469.8	0.010	40	938
1000	1.212	1.158	3.870	3.117	34.699	4.31	187	97.7	27.793	1032.5	32.7	0.447	1470.6			987
1012	1.212	1.158	3.879	3.117	34.698	4.31	187	97.7	27.792	1032.5	32.8	0.451	1470.8			999

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	086B	2009/01/26	11:09	-74.7182	-102.8038	529	8	1007	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	d18O	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
83	-1.031	-1.033	34.065	27.397	6.59	286	34.064	6.55	285			5	82
529	0.949	0.924	34.595	27.725	4.36	189	34.602	4.46	194			3	523

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	086U	2009/01/26	11:34	-74.7183	-102.8038	529	8	1007	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.083	-0.083	1.784	1.783	34.026	8.73	380	27.324	1027.3	74.1	0.001	1447.5	1
25	-0.136	-0.136	1.750	1.731	34.029	8.41	366	27.329	1027.4	73.5	0.018	1447.6	25
50	-0.872	-0.873	1.034	0.996	34.042	6.86	298	27.372	1027.6	69.3	0.036	1444.6	50
75	-1.060	-1.062	0.865	0.809	34.055	6.78	295	27.389	1027.7	67.6	0.053	1444.2	74
100	-1.132	-1.134	0.813	0.738	34.074	6.50	282	27.408	1027.9	65.7	0.070	1444.2	99
125	-1.222	-1.225	0.742	0.648	34.093	6.48	282	27.426	1028.0	63.8	0.086	1444.2	124
150	-1.276	-1.280	0.708	0.595	34.106	6.51	283	27.439	1028.2	62.5	0.102	1444.4	148
175	-1.060	-1.064	0.945	0.813	34.128	6.16	268	27.449	1028.3	61.5	0.117	1445.9	173
200	-0.891	-0.897	1.132	0.982	34.144	5.86	255	27.456	1028.4	60.9	0.133	1447.1	198
225	-0.895	-0.902	1.149	0.979	34.163	5.84	254	27.472	1028.5	59.3	0.148	1447.5	222
250	-0.594	-0.602	1.471	1.282	34.204	5.44	236	27.492	1028.7	57.5	0.162	1449.4	247
275	-0.261	-0.271	1.825	1.618	34.248	5.01	218	27.513	1028.8	55.7	0.176	1451.4	272
300	-0.177	-0.188	1.930	1.704	34.278	4.97	216	27.533	1029.0	53.9	0.190	1452.2	297
325	0.081	0.069	2.210	1.965	34.331	4.75	206	27.563	1029.1	51.3	0.203	1453.9	321
350	0.191	0.177	2.340	2.076	34.364	4.67	203	27.583	1029.2	49.5	0.216	1454.9	346
375	0.320	0.304	2.490	2.208	34.401	4.63	201	27.606	1029.4	47.4	0.228	1455.9	371
400	0.460	0.443	2.651	2.350	34.438	4.54	197	27.628	1029.5	45.5	0.240	1457.0	395
425	0.611	0.592	2.824	2.504	34.490	4.50	195	27.661	1029.7	42.6	0.251	1458.2	420
450	0.694	0.674	2.928	2.589	34.517	4.45	194	27.678	1029.8	41.2	0.261	1459.0	445
475	0.784	0.762	3.038	2.680	34.544	4.43	192	27.694	1029.9	39.8	0.271	1459.8	469
500	0.857	0.834	3.131	2.754	34.565	4.40	191	27.706	1030.1	38.8	0.281	1460.6	494
550	1.019	0.992	3.333	2.919	34.612	4.33	188	27.734	1030.3	36.5	0.300	1462.2	543
600	1.113	1.083	3.467	3.015	34.646	4.30	187	27.756	1030.6	34.8	0.318	1463.5	593
650	1.167	1.134	3.560	3.071	34.672	4.29	187	27.773	1030.8	33.5	0.335	1464.6	642
700	1.186	1.151	3.618	3.091	34.683	4.29	187	27.780	1031.1	32.9	0.351	1465.5	691
750	1.195	1.156	3.664	3.099	34.688	4.30	187	27.784	1031.3	32.7	0.368	1466.4	741
800	1.199	1.158	3.706	3.104	34.691	4.30	187	27.787	1031.5	32.6	0.384	1467.3	790
850	1.203	1.158	3.748	3.108	34.693	4.30	187	27.788	1031.8	32.7	0.400	1468.1	839
900	1.206	1.159	3.789	3.111	34.695	4.30	187	27.789	1032.0	32.7	0.416	1469.0	888
950	1.209	1.158	3.830	3.114	34.696	4.31	187	27.790	1032.2	32.8	0.433	1469.8	938
1000	1.212	1.158	3.870	3.117	34.696	4.31	187	27.791	1032.5	32.9	0.449	1470.6	987
1012	1.212	1.158	3.879	3.117	34.698	4.31	187	27.792	1032.5	32.8	0.453	1470.8	999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0
20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**087D**	2009/01/26	13:13	-74.7655	-102.9450	1078	9	1073	4	6.0	96	-1.6	981.4

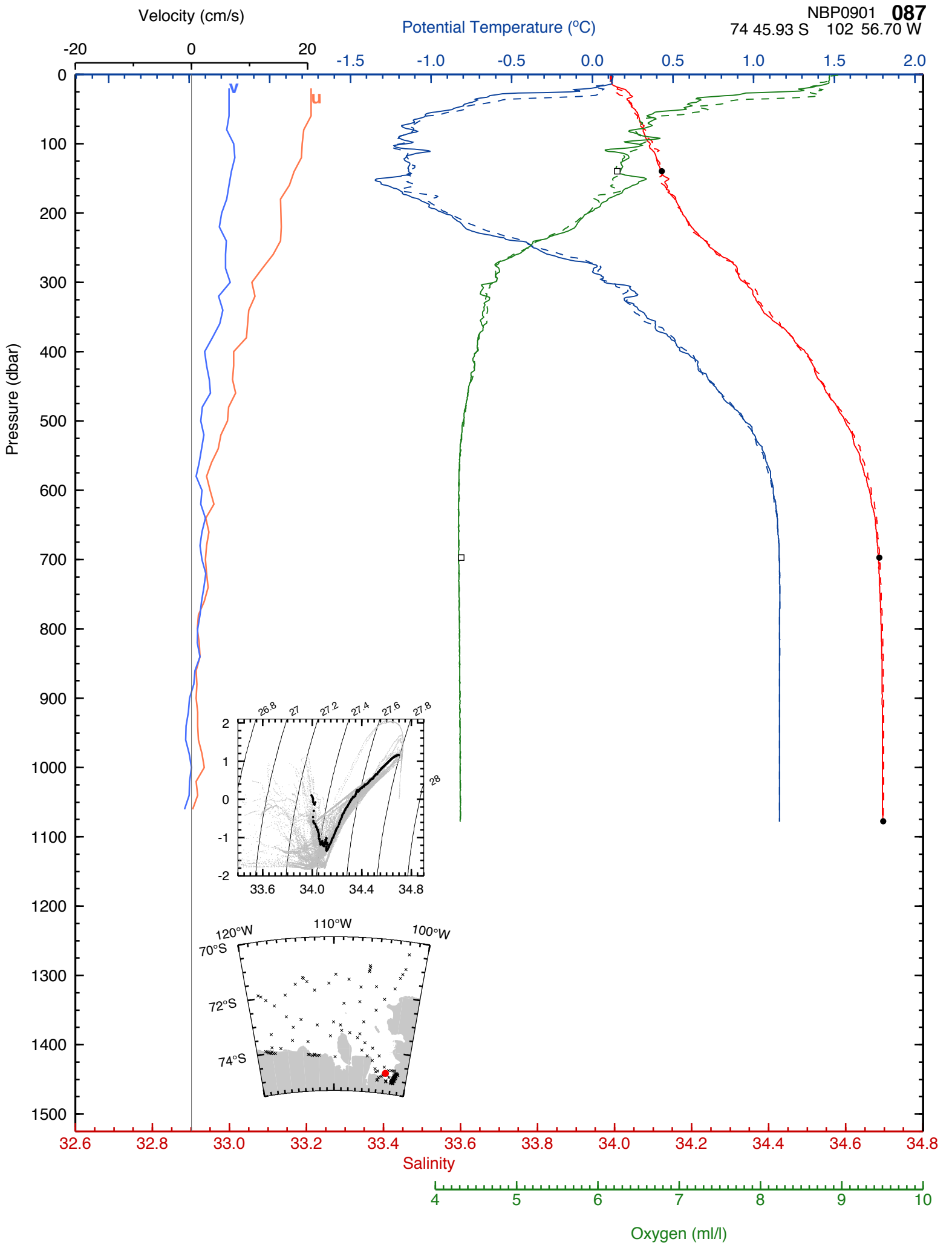
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.108	0.108	1.973	1.972	33.994	8.84	384	75.7	27.289	1027.3	77.4	0.001	1448.3			1
25	-0.133	-0.134	1.752	1.733	34.018	8.24	358	78.5	27.320	1027.4	74.4	0.019	1447.6	0.216	72	25
50	-0.864	-0.865	1.042	1.004	34.050	7.09	308	90.0	27.379	1027.6	68.7	0.037	1444.7	0.216	72	50
75	-1.182	-1.184	0.744	0.687	34.069	6.65	289	94.9	27.405	1027.8	66.0	0.054	1443.6	0.206	72	74
100	-1.151	-1.154	0.794	0.719	34.095	6.47	281	95.1	27.425	1027.9	64.0	0.070	1444.2	0.204	69	99
125	-1.154	-1.157	0.812	0.718	34.114	6.31	274	96.2	27.441	1028.0	62.5	0.086	1444.6	0.201	68	124
150	-1.323	-1.327	0.661	0.548	34.114	6.59	287	95.7	27.447	1028.2	61.7	0.101	1444.2	0.186	69	148
175	-1.135	-1.139	0.870	0.739	34.149	6.21	270	96.1	27.468	1028.3	59.6	0.116	1445.5	0.171	69	173
200	-0.916	-0.921	1.110	0.959	34.177	5.88	256	96.2	27.483	1028.4	58.3	0.131	1447.0	0.163	71	198
225	-0.750	-0.757	1.296	1.126	34.200	5.65	245	96.6	27.495	1028.6	57.2	0.146	1448.2	0.162	72	222
250	-0.355	-0.363	1.713	1.525	34.253	5.13	223	96.2	27.521	1028.7	54.9	0.160	1450.6	0.160	68	247
275	0.032	0.022	2.123	1.916	34.316	4.73	206	96.3	27.553	1028.9	52.2	0.173	1452.8	0.143	65	272
300	0.086	0.075	2.196	1.971	34.341	4.72	205	96.5	27.570	1029.0	50.6	0.186	1453.5	0.126	58	297
325	0.211	0.198	2.342	2.097	34.370	4.66	203	96.7	27.587	1029.1	49.1	0.198	1454.5	0.119	66	321
350	0.350	0.335	2.502	2.238	34.411	4.60	200	96.9	27.613	1029.3	46.8	0.210	1455.7	0.112	62	346
375	0.478	0.462	2.651	2.369	34.455	4.54	197	97.2	27.641	1029.4	44.3	0.222	1456.7	0.105	66	371
400	0.571	0.553	2.765	2.464	34.490	4.51	196	97.3	27.663	1029.6	42.3	0.233	1457.6	0.083	72	395
425	0.675	0.656	2.890	2.570	34.520	4.48	195	97.5	27.682	1029.7	40.7	0.243	1458.5	0.077	70	420
450	0.779	0.758	3.014	2.675	34.546	4.41	192	97.5	27.696	1029.8	39.6	0.253	1459.4	0.078	66	445
475	0.869	0.847	3.124	2.767	34.573	4.38	190	97.5	27.712	1030.0	38.2	0.263	1460.3	0.075	70	469
500	0.969	0.945	3.245	2.868	34.604	4.34	189	97.7	27.730	1030.1	36.7	0.272	1461.2	0.065	75	494
550	1.097	1.070	3.413	2.999	34.644	4.30	187	97.7	27.754	1030.3	34.8	0.290	1462.6	0.047	70	543
600	1.152	1.121	3.507	3.055	34.666	4.29	186	97.7	27.769	1030.6	33.6	0.307	1463.7	0.033	65	593
650	1.181	1.148	3.575	3.085	34.681	4.29	186	97.7	27.779	1030.8	32.8	0.324	1464.7	0.035	48	642
700	1.194	1.158	3.626	3.099	34.688	4.29	186	97.7	27.784	1031.1	32.6	0.340	1465.6	0.030	56	691
750	1.200	1.161	3.670	3.105	34.693	4.29	186	97.7	27.787	1031.3	32.4	0.356	1466.4	0.036	54	741
800	1.202	1.160	3.709	3.107	34.695	4.30	187	97.7	27.790	1031.5	32.4	0.372	1467.3	0.017	40	790
850	1.206	1.161	3.751	3.110	34.697	4.30	187	97.7	27.791	1031.8	32.4	0.389	1468.1	0.021	45	839
900	1.208	1.160	3.791	3.113	34.698	4.30	187	97.7	27.792	1032.0	32.5	0.405	1469.0	0.010	85	888
950	1.211	1.160	3.831	3.116	34.698	4.30	187	97.7	27.792	1032.2	32.6	0.421	1469.8	0.014	128	938
1000	1.213	1.159	3.871	3.118	34.698	4.31	187	97.7	27.792	1032.5	32.7	0.437	1470.6	0.019	98	987
1078	1.218	1.159	3.934	3.123	34.697	4.31	187	97.6	27.791	1032.8	33.1	0.463	1472.0			1064

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	087B	2009/01/26	13:39	-74.7659	-102.9465	1078	9	1073	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	d18O	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
59	-0.981	-0.982	34.060	27.391	6.97	303						7	58
139	-1.091	-1.095	34.122	27.445	6.19	269	34.123	6.24	271			5	138
697	1.194	1.158	34.686	27.782	4.28	186	34.688	4.32	188			3	688
1078	1.218	1.159	34.697	27.791	4.31	187	34.697					1	1064

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	087U	2009/01/26	14:05	-74.7663	-102.9481	1078	9	1073	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.124	0.124	1.990	1.989	33.989	8.96	389	27.284	1027.3	77.9	0.001	1448.4	1
25	0.046	0.045	1.931	1.913	34.034	8.64	376	27.324	1027.4	74.0	0.019	1448.5	25
50	-0.779	-0.781	1.126	1.089	34.053	7.34	319	27.377	1027.6	68.9	0.037	1445.1	50
75	-1.136	-1.137	0.790	0.734	34.076	6.50	283	27.410	1027.8	65.6	0.054	1443.8	74
100	-1.183	-1.185	0.763	0.687	34.092	6.53	284	27.424	1027.9	64.1	0.070	1444.0	99
125	-1.142	-1.145	0.824	0.730	34.110	6.30	274	27.438	1028.0	62.8	0.086	1444.7	124
150	-1.116	-1.120	0.870	0.757	34.141	6.18	269	27.462	1028.2	60.4	0.101	1445.2	148
175	-0.965	-0.969	1.041	0.909	34.153	5.98	260	27.466	1028.3	59.9	0.117	1446.4	173
200	-0.895	-0.901	1.131	0.980	34.176	5.87	255	27.482	1028.4	58.4	0.131	1447.1	198
225	-0.652	-0.659	1.394	1.224	34.207	5.57	242	27.497	1028.6	57.0	0.146	1448.7	222
250	-0.334	-0.343	1.733	1.545	34.249	5.15	224	27.517	1028.7	55.3	0.160	1450.7	247
275	0.043	0.033	2.133	1.926	34.312	4.75	207	27.549	1028.9	52.5	0.173	1452.9	272
300	0.128	0.117	2.238	2.013	34.337	4.71	205	27.565	1029.0	51.1	0.186	1453.7	297
325	0.229	0.216	2.359	2.115	34.367	4.62	201	27.584	1029.1	49.4	0.199	1454.6	321
350	0.320	0.306	2.472	2.208	34.402	4.62	201	27.607	1029.3	47.3	0.211	1455.5	346
375	0.492	0.476	2.665	2.383	34.454	4.54	197	27.639	1029.4	44.5	0.222	1456.8	371
400	0.612	0.595	2.806	2.505	34.494	4.51	196	27.665	1029.6	42.3	0.233	1457.8	395
425	0.686	0.667	2.900	2.580	34.519	4.47	194	27.680	1029.7	40.9	0.244	1458.5	420
450	0.786	0.765	3.021	2.682	34.544	4.41	192	27.694	1029.8	39.8	0.254	1459.5	445
475	0.882	0.860	3.138	2.780	34.573	4.38	190	27.711	1030.0	38.3	0.264	1460.3	469
500	0.964	0.940	3.240	2.863	34.598	4.35	189	27.726	1030.1	37.1	0.273	1461.1	494
550	1.087	1.060	3.403	2.989	34.637	4.31	187	27.749	1030.3	35.2	0.291	1462.6	543
600	1.149	1.119	3.504	3.052	34.661	4.29	186	27.765	1030.6	33.9	0.308	1463.7	593
650	1.180	1.147	3.574	3.084	34.678	4.29	186	27.776	1030.8	33.1	0.325	1464.7	642
700	1.195	1.159	3.626	3.099	34.685	4.29	186	27.782	1031.1	32.8	0.342	1465.6	691
750	1.200	1.161	3.669	3.104	34.689	4.29	187	27.785	1031.3	32.7	0.358	1466.4	741
800	1.202	1.161	3.709	3.107	34.692	4.30	187	27.787	1031.5	32.6	0.374	1467.3	790
850	1.206	1.161	3.750	3.110	34.694	4.30	187	27.789	1031.8	32.6	0.391	1468.1	839
900	1.208	1.160	3.790	3.113	34.695	4.30	187	27.789	1032.0	32.7	0.407	1469.0	888
950	1.211	1.160	3.831	3.116	34.695	4.31	187	27.790	1032.2	32.8	0.423	1469.8	938
1000	1.213	1.159	3.871	3.118	34.695	4.30	187	27.790	1032.5	33.0	0.440	1470.6	987
1078	1.218	1.159	3.934	3.123	34.697	4.31	187	27.791	1032.8	33.1	0.465	1472.0	1064


Velocity (cm/s)
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v
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Potential Temperature (°C)
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NBP0901 087
74 45.93 S 102 56.70 W
Pressure (dbar)
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100
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27.4
27.6
27.8
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-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**088D**	2009/01/26	15:10	-74.8275	-103.1563	1058	9	1053	5	7.7	123	-2.5	981.9

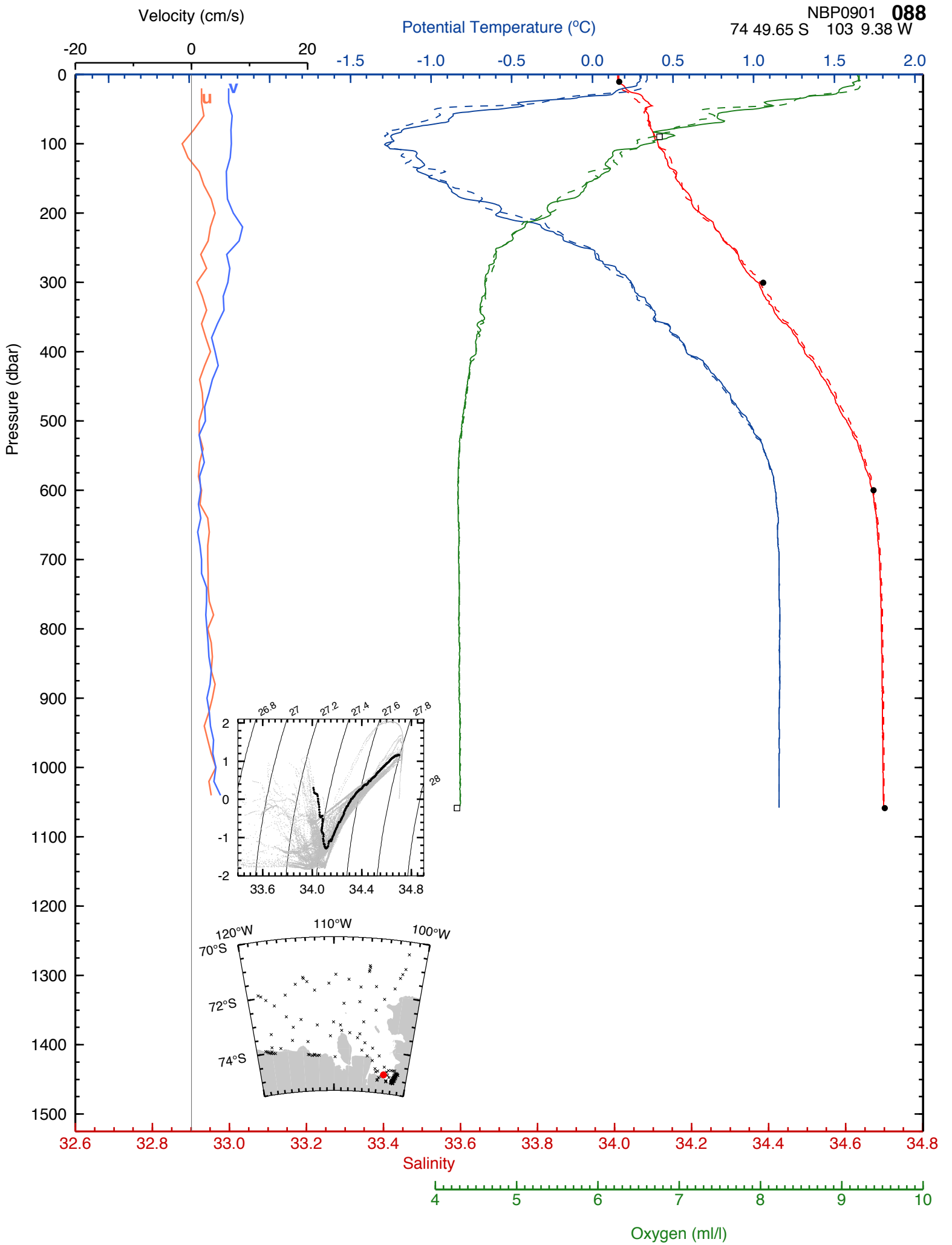
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.293	0.293	2.160	2.159	34.011	9.19	399	73.9	27.292	1027.3	77.1	0.001	1449.2			1
25	0.143	0.142	2.029	2.010	34.032	8.96	390	77.5	27.317	1027.4	74.7	0.019	1448.9	0.066	15	25
50	-0.581	-0.583	1.326	1.288	34.084	7.90	344	84.6	27.394	1027.6	67.3	0.037	1446.0	0.069	16	50
75	-1.069	-1.071	0.857	0.801	34.090	7.14	311	89.1	27.419	1027.8	64.8	0.053	1444.2	0.070	7	74
100	-1.281	-1.283	0.666	0.590	34.108	6.62	288	91.4	27.441	1027.9	62.5	0.069	1443.6	0.071	328	99
125	-1.056	-1.059	0.912	0.818	34.148	6.12	266	95.7	27.465	1028.1	60.2	0.084	1445.1	0.066	292	124
150	-0.995	-0.999	0.993	0.880	34.163	5.98	260	96.2	27.475	1028.2	59.2	0.099	1445.8	0.063	15	148
175	-0.833	-0.838	1.174	1.042	34.182	5.76	251	96.4	27.485	1028.3	58.3	0.114	1447.0	0.069	25	173
200	-0.579	-0.586	1.449	1.298	34.217	5.41	235	95.7	27.502	1028.5	56.7	0.128	1448.7	0.082	30	198
225	-0.272	-0.280	1.777	1.608	34.265	5.02	218	96.1	27.527	1028.6	54.4	0.142	1450.6	0.093	20	222
250	-0.044	-0.053	2.026	1.838	34.306	4.77	207	96.5	27.549	1028.7	52.5	0.156	1452.1	0.078	18	247
275	0.110	0.100	2.202	1.995	34.342	4.67	203	96.2	27.570	1028.9	50.6	0.169	1453.2	0.068	19	272
300	0.253	0.241	2.365	2.139	34.377	4.61	200	96.7	27.590	1029.0	48.8	0.181	1454.3	0.065	10	297
325	0.343	0.330	2.476	2.231	34.407	4.57	199	97.0	27.610	1029.2	47.1	0.193	1455.2	0.058	19	321
350	0.397	0.382	2.550	2.287	34.434	4.60	200	97.2	27.629	1029.3	45.4	0.205	1455.9	0.058	24	346
375	0.524	0.507	2.698	2.416	34.473	4.51	196	97.3	27.652	1029.4	43.3	0.216	1456.9	0.045	29	371
400	0.599	0.582	2.794	2.492	34.497	4.50	196	97.4	27.667	1029.6	42.0	0.226	1457.7	0.051	38	395
425	0.743	0.724	2.958	2.638	34.534	4.42	192	97.4	27.689	1029.7	40.2	0.237	1458.8	0.051	27	420
450	0.834	0.813	3.070	2.731	34.563	4.39	191	97.6	27.706	1029.8	38.7	0.246	1459.7	0.038	24	445
475	0.908	0.885	3.164	2.806	34.584	4.36	190	97.7	27.719	1030.0	37.7	0.256	1460.5	0.033	36	469
500	0.988	0.964	3.264	2.888	34.610	4.33	188	97.7	27.734	1030.1	36.4	0.265	1461.3	0.028	32	494
550	1.104	1.077	3.420	3.006	34.646	4.29	186	97.7	27.756	1030.3	34.6	0.283	1462.7	0.026	47	543
600	1.164	1.134	3.519	3.067	34.671	4.28	186	97.7	27.772	1030.6	33.3	0.300	1463.8	0.021	44	593
650	1.181	1.148	3.574	3.085	34.684	4.29	186	97.7	27.782	1030.8	32.6	0.316	1464.7	0.032	61	642
700	1.193	1.157	3.625	3.098	34.691	4.29	186	97.7	27.786	1031.1	32.4	0.333	1465.6	0.033	60	691
750	1.196	1.157	3.666	3.101	34.694	4.29	187	97.8	27.789	1031.3	32.3	0.349	1466.4	0.039	48	741
800	1.203	1.161	3.711	3.108	34.696	4.29	186	97.7	27.790	1031.5	32.3	0.365	1467.3	0.042	51	790
850	1.205	1.160	3.750	3.110	34.697	4.30	187	97.7	27.791	1031.8	32.4	0.381	1468.1	0.047	50	839
900	1.209	1.161	3.791	3.114	34.698	4.29	186	97.7	27.792	1032.0	32.5	0.397	1469.0	0.049	52	888
950	1.210	1.159	3.830	3.115	34.699	4.30	187	97.7	27.793	1032.2	32.5	0.413	1469.8	0.040	35	938
1000	1.212	1.158	3.870	3.117	34.700	4.30	187	97.7	27.794	1032.5	32.6	0.430	1470.6	0.053	43	987
1058	1.214	1.156	3.916	3.119	34.700	4.30	187	97.6	27.794	1032.7	32.8	0.449	1471.6			1044

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	088B	2009/01/26	15:37	-74.8278	-103.1576	1058	9	1053	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	0.337	0.337	34.008	27.288	9.20	400	34.012					9	10
90	-1.285	-1.287	34.106	27.439	6.73	292		6.75	294			8,7	89
300	0.251	0.239	34.374	27.588	4.61	200	34.386					5	297
600	1.166	1.136	34.671	27.772	4.28	186	34.672					3	592
1058	1.214	1.156	34.700	27.793	4.30	187	34.701	4.27	185			2	1044

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	088U	2009/01/26	16:05	-74.8279	-103.1577	1058	9	1053	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.339	0.339	2.205	2.204	34.008	9.21	400	27.288	1027.3	77.5	0.001	1449.4	1
25	0.212	0.211	2.098	2.080	34.040	9.07	394	27.320	1027.4	74.4	0.019	1449.2	25
50	-0.976	-0.977	0.931	0.894	34.079	7.31	318	27.406	1027.6	66.1	0.036	1444.2	50
75	-1.167	-1.168	0.760	0.704	34.093	7.00	304	27.424	1027.8	64.2	0.053	1443.7	74
100	-1.253	-1.255	0.694	0.619	34.113	6.48	282	27.443	1027.9	62.3	0.069	1443.7	99
125	-1.128	-1.132	0.839	0.744	34.137	6.19	269	27.459	1028.1	60.8	0.084	1444.8	124
150	-0.983	-0.987	1.004	0.891	34.159	5.99	260	27.471	1028.2	59.5	0.099	1445.9	148
175	-0.698	-0.704	1.310	1.178	34.194	5.56	242	27.489	1028.3	57.9	0.114	1447.7	173
200	-0.538	-0.544	1.490	1.340	34.222	5.41	235	27.505	1028.5	56.5	0.128	1448.9	198
225	-0.229	-0.236	1.821	1.652	34.266	5.01	218	27.525	1028.6	54.7	0.142	1450.8	222
250	-0.007	-0.016	2.064	1.875	34.305	4.79	208	27.546	1028.7	52.8	0.155	1452.2	247
275	0.082	0.072	2.173	1.966	34.332	4.73	205	27.563	1028.9	51.3	0.168	1453.1	272
300	0.243	0.231	2.355	2.129	34.372	4.62	201	27.587	1029.0	49.2	0.181	1454.3	297
325	0.292	0.279	2.425	2.180	34.395	4.62	201	27.602	1029.1	47.7	0.193	1455.0	321
350	0.399	0.384	2.551	2.288	34.424	4.56	198	27.620	1029.3	46.2	0.205	1455.9	346
375	0.507	0.491	2.681	2.398	34.466	4.54	197	27.648	1029.4	43.7	0.216	1456.8	371
400	0.602	0.584	2.796	2.495	34.493	4.50	196	27.664	1029.6	42.3	0.227	1457.7	395
425	0.730	0.711	2.945	2.625	34.527	4.43	193	27.684	1029.7	40.6	0.237	1458.8	420
450	0.823	0.803	3.059	2.720	34.555	4.40	191	27.701	1029.8	39.2	0.247	1459.6	445
475	0.893	0.871	3.149	2.792	34.576	4.37	190	27.713	1030.0	38.2	0.257	1460.4	469
500	0.977	0.953	3.253	2.877	34.603	4.34	189	27.729	1030.1	36.8	0.266	1461.2	494
550	1.102	1.074	3.417	3.003	34.642	4.30	187	27.752	1030.3	34.9	0.284	1462.6	543
600	1.165	1.135	3.520	3.069	34.670	4.28	186	27.771	1030.6	33.5	0.301	1463.8	593
650	1.182	1.149	3.575	3.086	34.681	4.29	186	27.779	1030.8	32.8	0.318	1464.7	642
700	1.193	1.157	3.625	3.098	34.688	4.29	186	27.784	1031.1	32.6	0.334	1465.6	691
750	1.197	1.158	3.666	3.101	34.691	4.30	187	27.786	1031.3	32.5	0.350	1466.4	741
800	1.202	1.160	3.709	3.107	34.693	4.29	187	27.788	1031.5	32.5	0.366	1467.3	790
850	1.206	1.161	3.751	3.111	34.694	4.30	187	27.789	1031.8	32.6	0.383	1468.1	839
900	1.207	1.159	3.789	3.111	34.695	4.30	187	27.790	1032.0	32.7	0.399	1469.0	888
950	1.209	1.158	3.829	3.114	34.696	4.31	187	27.790	1032.2	32.8	0.415	1469.8	938
1000	1.212	1.158	3.870	3.117	34.697	4.31	187	27.791	1032.5	32.8	0.432	1470.6	987
1058	1.214	1.156	3.916	3.119	34.700	4.30	187	27.794	1032.7	32.8	0.451	1471.6	1044


NBP0901 088
74 49.65 S 103 9.38 W
Velocity (cm/s)
-20
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Potential Temperature (°C)
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-1.0
-0.5
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2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
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900
1000
1100
1200
1300
1400
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26.8
27
27.2
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28
2
1
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-1
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33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
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33.6
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34.0
34.2
34.4
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Salinity
4
5
6
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**089D**	2009/01/26	18:37	-74.8946	-103.4763	872	8	870	5	8.9	119	-2.8	983.0

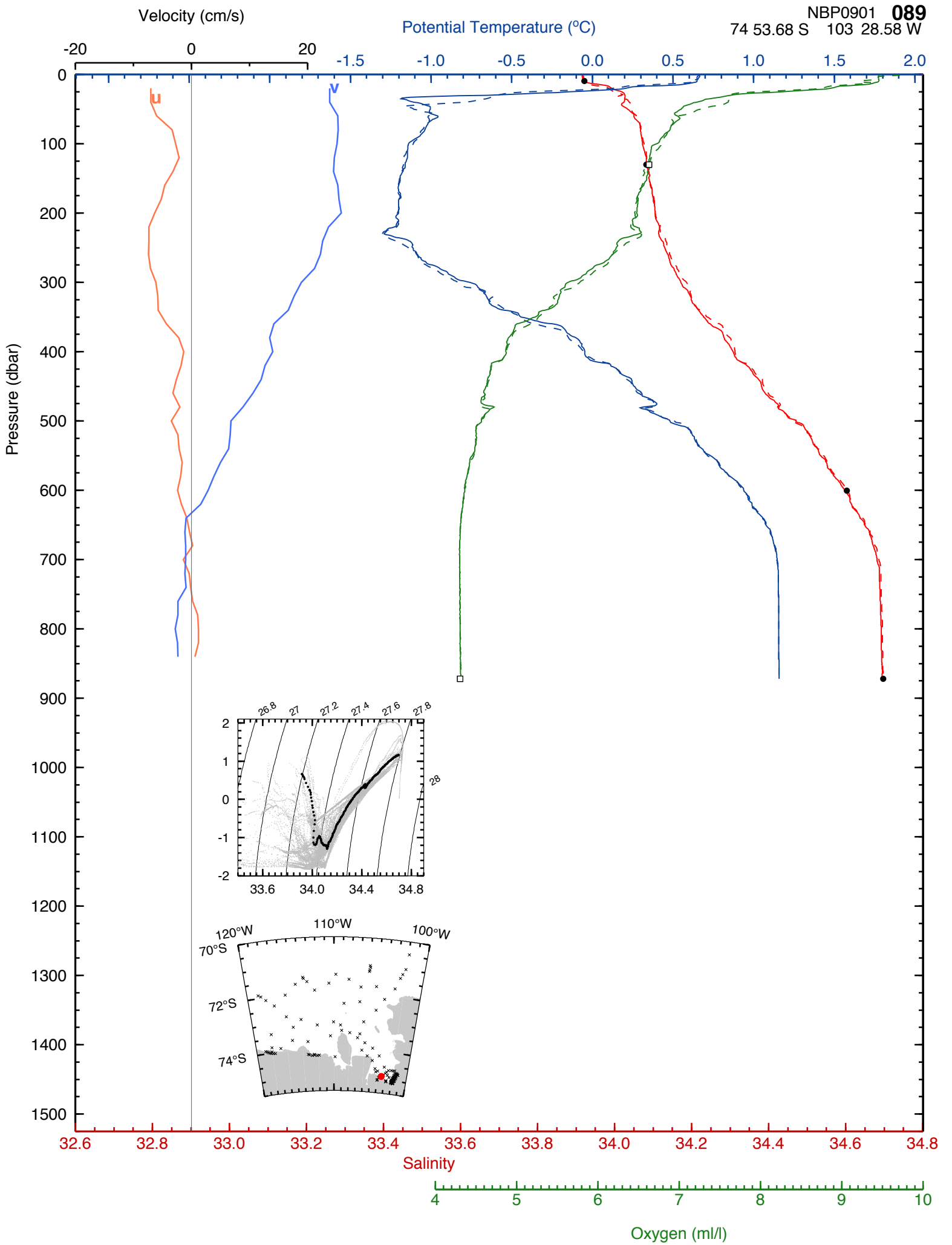
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.661	0.661	2.522	2.521	33.917	9.46	411	70.4	27.195	1027.2	86.2	0.001	1450.7			1
25	-0.153	-0.154	1.731	1.712	34.001	8.26	359	78.8	27.307	1027.4	75.6	0.021	1447.5	0.248	344	25
50	-1.004	-1.006	0.901	0.863	34.044	7.02	305	90.4	27.378	1027.6	68.7	0.038	1444.0	0.253	345	50
75	-1.027	-1.029	0.898	0.842	34.068	6.90	300	92.1	27.399	1027.8	66.6	0.055	1444.3	0.256	351	74
100	-1.136	-1.139	0.809	0.733	34.076	6.72	292	93.3	27.410	1027.9	65.5	0.072	1444.2	0.252	354	99
125	-1.152	-1.155	0.812	0.718	34.084	6.63	288	94.3	27.416	1028.0	64.7	0.088	1444.6	0.247	355	124
150	-1.189	-1.193	0.794	0.681	34.090	6.60	287	94.9	27.423	1028.1	64.0	0.104	1444.8	0.251	351	148
175	-1.185	-1.190	0.818	0.686	34.101	6.49	282	95.4	27.432	1028.3	63.1	0.120	1445.2	0.258	349	173
200	-1.197	-1.202	0.825	0.674	34.106	6.48	282	95.7	27.436	1028.4	62.5	0.136	1445.6	0.265	347	198
225	-1.269	-1.275	0.772	0.602	34.118	6.51	283	96.3	27.449	1028.5	61.2	0.151	1445.7	0.246	343	222
250	-1.107	-1.114	0.954	0.766	34.138	6.22	270	96.4	27.459	1028.7	60.2	0.166	1446.9	0.236	342	247
275	-0.985	-0.993	1.096	0.889	34.158	5.99	260	96.4	27.471	1028.8	59.1	0.181	1447.9	0.228	342	272
300	-0.752	-0.761	1.350	1.124	34.187	5.63	245	96.2	27.485	1028.9	57.9	0.196	1449.4	0.203	342	297
325	-0.635	-0.645	1.487	1.242	34.202	5.51	239	96.3	27.492	1029.0	57.2	0.210	1450.4	0.185	342	321
350	-0.429	-0.441	1.713	1.450	34.241	5.22	227	95.9	27.515	1029.2	55.2	0.224	1451.8	0.168	342	346
375	-0.130	-0.144	2.034	1.751	34.289	4.94	215	96.4	27.540	1029.3	53.1	0.238	1453.7	0.142	347	371
400	-0.033	-0.048	2.151	1.850	34.313	4.87	212	96.5	27.554	1029.5	51.9	0.251	1454.6	0.140	354	395
425	0.170	0.153	2.375	2.055	34.358	4.69	204	96.1	27.580	1029.6	49.7	0.264	1456.0	0.128	352	420
450	0.278	0.260	2.504	2.165	34.388	4.63	201	96.5	27.598	1029.7	48.1	0.276	1456.9	0.120	347	445
475	0.419	0.399	2.667	2.309	34.429	4.58	199	96.9	27.624	1029.9	45.9	0.288	1458.0	0.102	345	469
500	0.502	0.480	2.770	2.393	34.466	4.57	198	97.3	27.648	1030.0	43.7	0.299	1458.9	0.081	337	494
550	0.758	0.732	3.068	2.654	34.543	4.45	193	97.6	27.695	1030.3	39.8	0.320	1461.0	0.065	342	543
600	0.967	0.938	3.319	2.867	34.602	4.36	190	97.6	27.730	1030.6	37.0	0.339	1462.8	0.040	325	593
650	1.108	1.075	3.499	3.010	34.651	4.31	187	97.6	27.760	1030.8	34.5	0.357	1464.3	0.012	219	642
700	1.181	1.146	3.613	3.086	34.686	4.30	187	97.6	27.784	1031.1	32.6	0.373	1465.5	0.014	206	691
750	1.192	1.153	3.662	3.097	34.692	4.30	187	97.6	27.788	1031.3	32.4	0.390	1466.4	0.009	186	741
800	1.197	1.156	3.705	3.102	34.696	4.30	187	97.7	27.790	1031.5	32.3	0.406	1467.3	0.028	156	790
850	1.202	1.157	3.746	3.106	34.697	4.31	187	97.6	27.791	1031.8	32.4	0.422	1468.1	0.024	165	839
872	1.203	1.157	3.765	3.108	34.696	4.31	187	97.6	27.791	1031.9	32.5	0.429	1468.5	0.024	165	861

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	089B	2009/01/26	18:59	-74.8950	-103.4773	872	8	870	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
10	0.636	0.636	33.921	27.200	9.41	409		33.922					9	10
130	-1.163	-1.167	34.084	27.417	6.63	288		34.083	6.63	288			7	129
484	0.347	0.326	34.432	27.630	4.69	204							5	478
600	0.966	0.936	34.599	27.727	4.36	190		34.603					3	593
872	1.203	1.157	34.696	27.791	4.31	187		34.697	4.31	187			1	861

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	089U	2009/01/26	19:26	-74.8946	-103.4763	872	8	870	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.663	0.663	2.524	2.523	33.916	9.71	422	27.195	1027.2	86.3	0.001	1450.7	1
25	-0.406	-0.406	1.479	1.460	34.019	7.94	345	27.334	1027.5	73.1	0.021	1446.4	25
50	-1.106	-1.107	0.799	0.761	34.034	7.26	315	27.375	1027.6	69.1	0.038	1443.5	50
75	-1.041	-1.043	0.884	0.828	34.067	6.89	300	27.398	1027.8	66.7	0.055	1444.3	74
100	-1.109	-1.111	0.836	0.761	34.072	6.78	295	27.406	1027.9	65.9	0.072	1444.3	99
125	-1.165	-1.168	0.799	0.705	34.083	6.64	289	27.416	1028.0	64.8	0.088	1444.5	124
150	-1.191	-1.195	0.792	0.679	34.089	6.57	286	27.422	1028.1	64.1	0.104	1444.8	148
175	-1.191	-1.195	0.812	0.680	34.099	6.49	282	27.430	1028.3	63.2	0.120	1445.2	173
200	-1.204	-1.209	0.817	0.667	34.106	6.45	281	27.436	1028.4	62.5	0.136	1445.6	198
225	-1.269	-1.275	0.772	0.603	34.116	6.46	281	27.446	1028.5	61.4	0.151	1445.7	222
250	-1.133	-1.140	0.927	0.739	34.130	6.28	273	27.454	1028.7	60.7	0.167	1446.8	247
275	-1.023	-1.030	1.058	0.851	34.147	6.10	265	27.463	1028.8	59.8	0.182	1447.7	272
300	-0.823	-0.832	1.277	1.052	34.172	5.78	251	27.476	1028.9	58.6	0.196	1449.1	297
325	-0.629	-0.640	1.492	1.247	34.199	5.48	238	27.490	1029.0	57.4	0.211	1450.4	321
350	-0.438	-0.450	1.704	1.440	34.232	5.27	229	27.508	1029.2	55.9	0.225	1451.8	346
375	-0.147	-0.161	2.016	1.734	34.282	4.95	215	27.535	1029.3	53.6	0.239	1453.6	371
400	-0.040	-0.055	2.144	1.843	34.307	4.87	212	27.550	1029.4	52.3	0.252	1454.5	395
425	0.168	0.151	2.373	2.053	34.352	4.68	204	27.576	1029.6	50.1	0.265	1456.0	420
450	0.267	0.248	2.492	2.153	34.382	4.64	201	27.594	1029.7	48.5	0.277	1456.9	445
475	0.409	0.389	2.656	2.298	34.422	4.56	198	27.618	1029.9	46.4	0.289	1458.0	469
500	0.531	0.509	2.799	2.423	34.471	4.54	197	27.651	1030.0	43.6	0.300	1459.0	494
550	0.739	0.714	3.049	2.635	34.535	4.47	194	27.690	1030.3	40.3	0.321	1460.9	543
600	0.968	0.939	3.319	2.867	34.600	4.36	189	27.728	1030.6	37.2	0.341	1462.8	593
650	1.111	1.079	3.503	3.014	34.649	4.31	187	27.758	1030.8	34.7	0.359	1464.3	642
700	1.180	1.144	3.611	3.084	34.681	4.30	187	27.780	1031.1	32.9	0.376	1465.5	691
750	1.192	1.154	3.662	3.097	34.689	4.30	187	27.785	1031.3	32.6	0.392	1466.4	741
800	1.198	1.156	3.705	3.102	34.693	4.31	187	27.788	1031.5	32.5	0.408	1467.2	790
850	1.201	1.157	3.746	3.106	34.694	4.31	187	27.789	1031.8	32.6	0.424	1468.1	839
872	1.203	1.157	3.765	3.108	34.696	4.31	187	27.791	1031.9	32.5	0.432	1468.5	861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0
20
u
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Potential Temperature (°C)
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-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**090D**	2009/01/26	21:07	-74.9521	-103.8123	721	13	725	5	11.0	116	-2.8	983.6

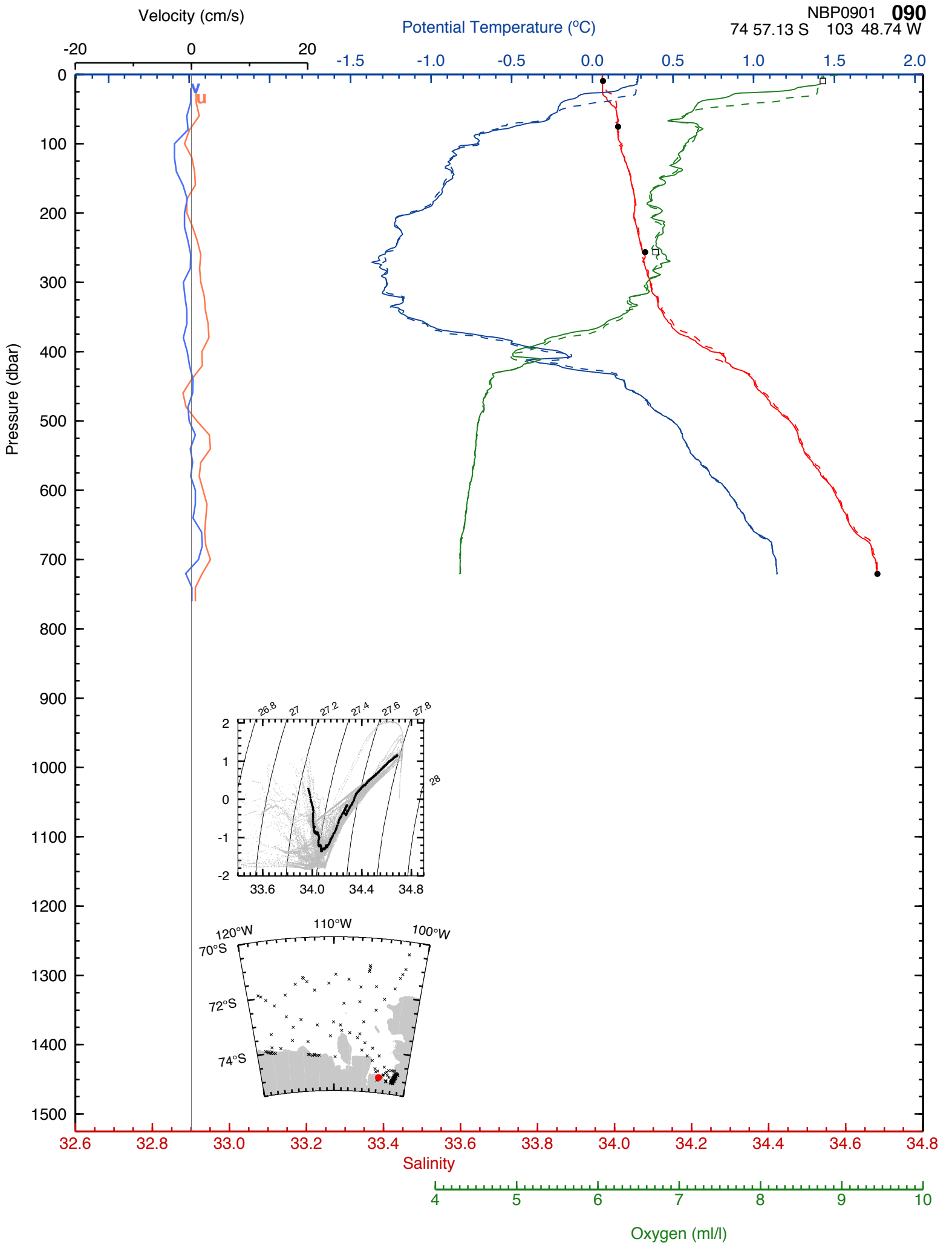
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.278	0.278	2.143	2.141	33.969	8.76	381	72.8	27.259	1027.3	80.2	0.002	1449.1			2
25	0.113	0.113	1.996	1.977	33.981	8.10	352	76.3	27.278	1027.4	78.4	0.020	1448.7	0.008	97	25
50	-0.212	-0.213	1.691	1.654	34.006	7.18	312	85.3	27.314	1027.6	74.9	0.039	1447.6	0.011	109	50
75	-0.481	-0.483	1.441	1.385	34.008	7.23	314	89.5	27.328	1027.7	73.5	0.058	1446.8	0.009	182	74
100	-0.709	-0.712	1.232	1.157	34.019	7.08	308	92.2	27.347	1027.8	71.6	0.076	1446.2	0.030	203	99
125	-0.886	-0.889	1.075	0.981	34.027	6.99	304	93.3	27.360	1028.0	70.1	0.093	1445.7	0.029	176	124
150	-0.864	-0.868	1.116	1.003	34.043	6.76	294	92.8	27.373	1028.1	68.9	0.111	1446.3	0.022	163	148
175	-0.944	-0.948	1.056	0.924	34.052	6.66	289	93.8	27.383	1028.2	67.8	0.128	1446.3	0.013	203	173
200	-1.111	-1.116	0.908	0.757	34.051	6.76	294	94.5	27.389	1028.3	67.0	0.145	1445.9	0.014	215	198
225	-1.183	-1.188	0.855	0.686	34.062	6.80	296	95.1	27.400	1028.5	65.8	0.161	1446.0	0.012	164	222
250	-1.227	-1.233	0.831	0.642	34.071	6.74	293	95.6	27.408	1028.6	64.9	0.178	1446.2	0.013	111	247
275	-1.302	-1.309	0.775	0.568	34.080	6.78	295	95.6	27.418	1028.7	63.8	0.194	1446.3	0.015	96	272
300	-1.268	-1.276	0.829	0.603	34.095	6.60	287	96.1	27.430	1028.9	62.6	0.209	1446.9	0.020	125	297
325	-1.165	-1.173	0.952	0.707	34.113	6.39	278	95.9	27.441	1029.0	61.5	0.225	1447.8	0.025	116	321
350	-1.136	-1.146	1.000	0.736	34.139	6.25	272	95.0	27.461	1029.1	59.6	0.240	1448.4	0.026	108	346
375	-0.725	-0.736	1.434	1.152	34.196	5.58	243	96.0	27.491	1029.3	57.1	0.255	1450.8	0.032	111	371
400	-0.187	-0.201	1.995	1.694	34.272	4.98	216	96.0	27.529	1029.4	54.1	0.269	1453.8	0.022	112	395
425	-0.116	-0.132	2.087	1.767	34.317	4.98	216	96.8	27.562	1029.6	51.0	0.282	1454.6	0.019	99	420
450	0.221	0.203	2.446	2.107	34.370	4.69	204	96.7	27.587	1029.7	49.1	0.294	1456.7	0.006	65	445
475	0.376	0.356	2.622	2.265	34.413	4.59	200	96.8	27.613	1029.9	46.9	0.306	1457.8	0.013	258	469
500	0.518	0.496	2.786	2.410	34.461	4.53	197	97.1	27.643	1030.0	44.2	0.318	1458.9	0.010	150	494
550	0.650	0.625	2.958	2.544	34.504	4.49	195	97.2	27.671	1030.3	41.9	0.339	1460.4	0.030	92	543
600	0.864	0.835	3.214	2.762	34.572	4.41	192	97.5	27.712	1030.5	38.5	0.359	1462.3	0.018	79	593
650	1.006	0.974	3.395	2.906	34.617	4.36	189	97.6	27.739	1030.8	36.3	0.378	1463.8	0.025	80	642
700	1.173	1.137	3.604	3.077	34.681	4.31	187	97.6	27.780	1031.1	32.9	0.395	1465.5	0.033	63	691
721	1.181	1.144	3.628	3.085	34.684	4.30	187	97.5	27.781	1031.2	32.8	0.402	1465.9			712

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	090B	2009/01/26	21:25	-74.9522	-103.8124	721	13	725	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
9	0.276	0.275	33.970	27.260	8.72	379	33.970	8.77	381			16,13	9
75	-0.519	-0.521	34.009	27.331	7.17	312	34.009					12	74
256	-1.291	-1.297	34.075	27.414	6.76	294	34.079	6.71	292			9	253
402	-0.187	-0.202	34.270	27.527	4.97	216						7	397
721	1.182	1.145	34.685	27.782	4.30	187	34.683					1	712

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	090U	2009/01/26	21:46	-74.9520	-103.8121	721	13	725	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.282	0.282	2.147	2.146	33.969	8.95	389	27.259	1027.3	80.2	0.001	1449.1	1
25	0.270	0.269	2.152	2.133	33.969	8.70	378	27.260	1027.4	80.1	0.020	1449.4	25
50	-0.187	-0.189	1.716	1.678	34.004	7.25	315	27.311	1027.5	75.2	0.040	1447.8	50
75	-0.568	-0.570	1.354	1.298	34.009	7.20	313	27.333	1027.7	73.0	0.058	1446.4	74
100	-0.701	-0.704	1.240	1.165	34.017	7.10	309	27.345	1027.8	71.7	0.076	1446.2	99
125	-0.870	-0.874	1.091	0.997	34.027	6.94	302	27.360	1028.0	70.2	0.094	1445.8	124
150	-0.895	-0.899	1.085	0.972	34.042	6.76	294	27.373	1028.1	68.8	0.111	1446.1	148
175	-0.964	-0.969	1.035	0.903	34.051	6.64	289	27.383	1028.2	67.8	0.128	1446.2	173
200	-1.135	-1.140	0.884	0.733	34.051	6.75	293	27.389	1028.3	67.0	0.145	1445.8	198
225	-1.182	-1.188	0.856	0.686	34.059	6.77	294	27.398	1028.5	66.0	0.162	1446.0	222
250	-1.206	-1.213	0.851	0.663	34.070	6.66	290	27.407	1028.6	65.0	0.178	1446.3	247
275	-1.286	-1.293	0.791	0.584	34.078	6.74	293	27.416	1028.7	64.0	0.194	1446.4	272
300	-1.268	-1.276	0.828	0.602	34.092	6.60	287	27.427	1028.9	62.8	0.210	1446.9	297
325	-1.168	-1.177	0.948	0.704	34.111	6.38	277	27.439	1029.0	61.7	0.226	1447.8	321
350	-1.151	-1.160	0.985	0.722	34.129	6.31	274	27.454	1029.1	60.3	0.241	1448.3	346
375	-0.839	-0.851	1.318	1.036	34.170	5.85	254	27.475	1029.3	58.4	0.256	1450.2	371
400	-0.275	-0.289	1.905	1.604	34.252	5.11	222	27.517	1029.4	55.1	0.270	1453.4	395
425	-0.034	-0.050	2.169	1.849	34.317	4.97	216	27.558	1029.6	51.5	0.283	1455.0	420
450	0.224	0.206	2.449	2.110	34.366	4.67	203	27.584	1029.7	49.4	0.296	1456.7	445
475	0.363	0.343	2.609	2.251	34.404	4.59	199	27.607	1029.9	47.4	0.308	1457.8	469
500	0.518	0.496	2.786	2.409	34.456	4.53	197	27.639	1030.0	44.6	0.319	1458.9	494
550	0.649	0.624	2.957	2.543	34.499	4.49	195	27.666	1030.3	42.3	0.341	1460.4	543
600	0.864	0.836	3.213	2.762	34.568	4.41	192	27.709	1030.5	38.7	0.361	1462.3	593
650	1.001	0.969	3.391	2.901	34.611	4.36	189	27.735	1030.8	36.7	0.380	1463.8	642
700	1.171	1.135	3.602	3.075	34.677	4.31	187	27.777	1031.1	33.2	0.397	1465.5	691
721	1.181	1.144	3.628	3.085	34.684	4.30	187	27.781	1031.2	32.8	0.404	1465.9	712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Potential Temperature (°C)
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Pressure (dbar)
0
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200
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120°W
110°W
100°W
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72°S
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32.6
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33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**091D**	2009/01/27	09:11	-74.2083	-105.5949	1628	9	1613	4	7.9	183	-3.0	984.7

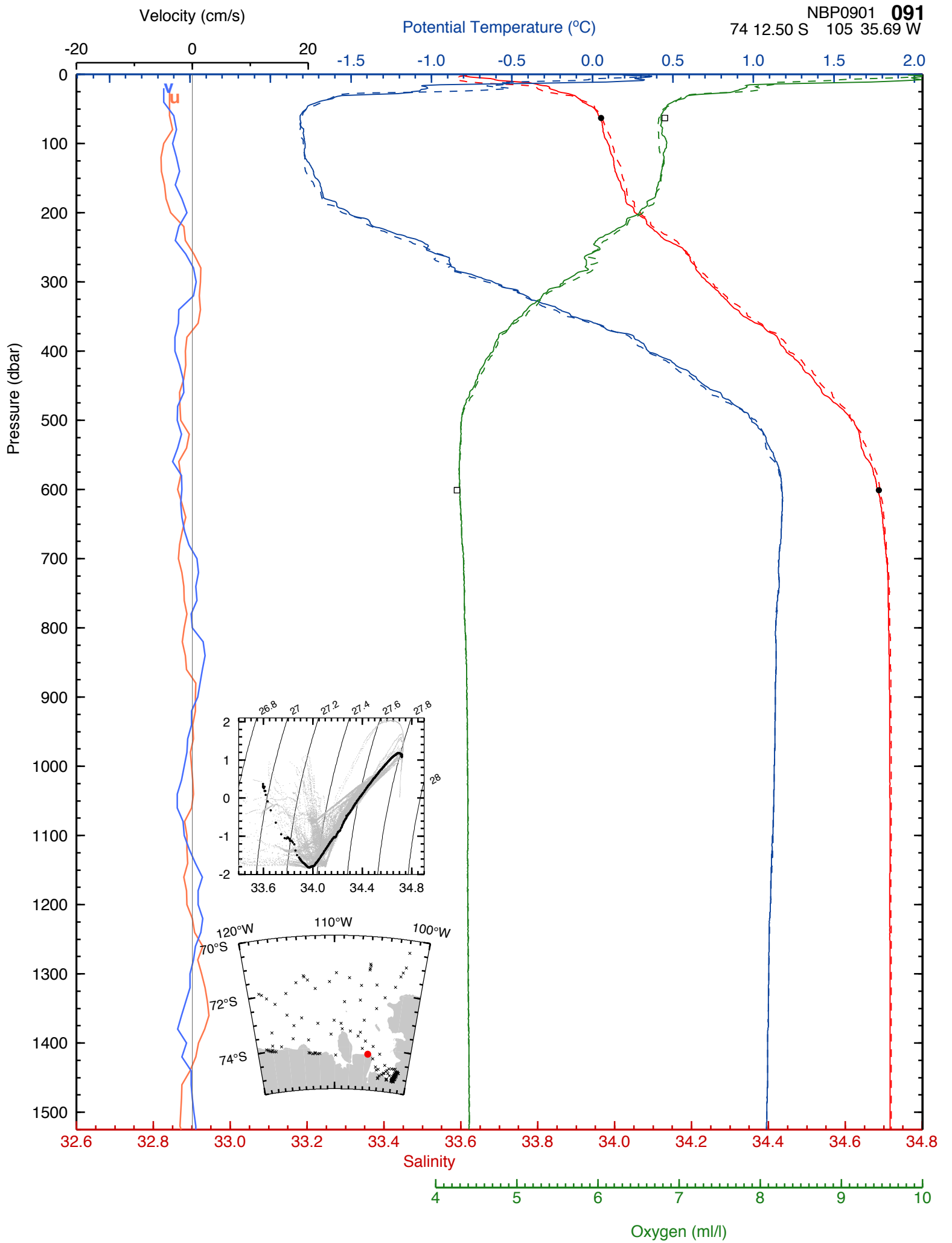
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.188	0.188	2.032	2.031	33.614	9.82	427	51.5	26.978	1027.0	106.9	0.001	1448.2			1
25	-1.121	-1.122	0.752	0.733	33.817	7.67	333	74.7	27.199	1027.3	85.8	0.025	1442.7	0.063	218	25
50	-1.777	-1.778	0.123	0.085	33.950	6.83	297	96.7	27.326	1027.6	73.5	0.044	1440.2	0.057	224	50
75	-1.811	-1.813	0.109	0.052	33.975	6.78	295	97.6	27.348	1027.7	71.3	0.062	1440.5	0.045	231	74
100	-1.784	-1.786	0.156	0.080	33.994	6.85	298	97.7	27.363	1027.8	69.7	0.080	1441.0	0.059	235	99
125	-1.771	-1.773	0.189	0.095	34.008	6.81	296	97.8	27.373	1028.0	68.6	0.097	1441.5	0.059	244	124
150	-1.716	-1.719	0.263	0.150	34.022	6.77	294	97.8	27.383	1028.1	67.5	0.114	1442.2	0.057	244	148
175	-1.671	-1.674	0.328	0.196	34.033	6.71	292	97.8	27.391	1028.2	66.6	0.131	1442.8	0.051	245	173
200	-1.510	-1.514	0.510	0.359	34.068	6.51	283	97.8	27.415	1028.4	64.3	0.147	1444.1	0.039	255	198
225	-1.276	-1.282	0.765	0.595	34.115	6.21	270	97.8	27.446	1028.5	61.4	0.163	1445.6	0.028	212	222
250	-1.020	-1.026	1.044	0.856	34.178	6.01	261	97.8	27.488	1028.7	57.5	0.178	1447.3	0.024	189	247
275	-0.872	-0.880	1.212	1.004	34.209	5.86	255	97.7	27.507	1028.8	55.7	0.192	1448.5	0.013	116	272
300	-0.608	-0.618	1.497	1.271	34.252	5.57	242	97.6	27.532	1029.0	53.6	0.205	1450.2	0.016	67	297
325	-0.373	-0.384	1.753	1.509	34.295	5.28	230	97.6	27.556	1029.1	51.4	0.219	1451.8	0.013	85	321
350	-0.110	-0.123	2.038	1.775	34.349	5.05	219	97.7	27.587	1029.2	48.8	0.231	1453.5	0.027	151	346
375	0.233	0.217	2.404	2.122	34.426	4.79	208	97.7	27.631	1029.4	45.0	0.243	1455.5	0.029	178	371
400	0.363	0.346	2.555	2.254	34.454	4.71	205	97.8	27.646	1029.5	43.7	0.254	1456.6	0.032	201	395
425	0.573	0.555	2.787	2.467	34.505	4.56	198	97.8	27.675	1029.7	41.3	0.264	1458.0	0.025	207	420
450	0.720	0.699	2.954	2.615	34.540	4.48	195	97.8	27.695	1029.8	39.6	0.275	1459.1	0.023	226	445
475	0.888	0.866	3.144	2.787	34.584	4.37	190	97.8	27.720	1030.0	37.5	0.284	1460.4	0.030	228	469
500	1.012	0.988	3.289	2.913	34.616	4.32	188	97.9	27.738	1030.1	36.1	0.293	1461.4	0.033	218	494
550	1.151	1.124	3.469	3.054	34.664	4.30	187	97.8	27.767	1030.4	33.6	0.311	1462.9	0.029	204	543
600	1.207	1.177	3.563	3.112	34.690	4.30	187	97.8	27.785	1030.6	32.2	0.327	1464.0	0.030	231	593
650	1.206	1.173	3.601	3.112	34.703	4.32	188	97.8	27.795	1030.8	31.5	0.343	1464.8	0.021	214	642
700	1.195	1.159	3.628	3.100	34.709	4.34	189	97.8	27.801	1031.1	31.0	0.359	1465.6	0.024	274	691
750	1.194	1.155	3.664	3.099	34.715	4.35	189	97.7	27.806	1031.3	30.7	0.374	1466.4	0.016	292	741
800	1.180	1.138	3.688	3.086	34.716	4.36	190	97.7	27.808	1031.6	30.6	0.389	1467.2	0.011	264	790
850	1.184	1.140	3.731	3.090	34.718	4.38	190	97.7	27.809	1031.8	30.7	0.405	1468.1	0.025	331	839
900	1.183	1.135	3.767	3.089	34.718	4.38	190	97.7	27.810	1032.0	30.7	0.420	1468.9	0.012	27	888
950	1.184	1.133	3.806	3.090	34.719	4.39	191	97.6	27.811	1032.3	30.8	0.435	1469.7	0.002	131	938
1000	1.183	1.129	3.842	3.090	34.719	4.39	191	97.6	27.811	1032.5	30.9	0.451	1470.5	0.011	193	987
1200	1.172	1.105	3.982	3.078	34.719	4.40	191	97.6	27.812	1033.4	31.3	0.513	1473.8	0.014	316	1184
1400	1.168	1.089	4.129	3.075	34.720	4.41	191	97.5	27.814	1034.3	31.7	0.576	1477.1	0.033	140	1381
1600	1.174	1.080	4.285	3.080	34.719	4.42	192	97.4	27.814	1035.2	32.3	0.640	1480.5	0.004	230	1577
1628	1.175	1.079	4.308	3.082	34.718	4.41	192	97.4	27.814	1035.4	32.5	0.649	1481.0			1605

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	091B	2009/01/27	09:49	-74.2084	-105.5955	1627	9	1613	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	d18O	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.084	-0.085	33.706	27.066	8.83	384						8	10
63	-1.809	-1.810	33.964	27.339	6.75	294	33.965	6.82	297			5	62
601	1.205	1.175	34.686	27.782	4.29	187	34.688	4.26	185			3	594
1627	1.175	1.079	34.718	27.814	4.42	192	34.718					1	1604

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	091U	2009/01/27	10:23	-74.2084	-105.5949	1627	9	1613	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.345	0.345	2.189	2.188	33.615	9.99	434	26.970	1027.0	107.6	0.001	1448.9	1
25	-0.958	-0.959	0.917	0.899	33.853	7.79	339	27.222	1027.3	83.6	0.024	1443.5	25
50	-1.776	-1.776	0.124	0.087	33.949	6.81	296	27.326	1027.6	73.6	0.043	1440.2	50
75	-1.813	-1.815	0.106	0.050	33.969	6.75	293	27.343	1027.7	71.8	0.061	1440.5	74
100	-1.794	-1.796	0.145	0.070	33.983	6.76	294	27.354	1027.8	70.6	0.079	1441.0	99
125	-1.785	-1.787	0.174	0.080	33.998	6.81	296	27.366	1028.0	69.3	0.096	1441.4	124
150	-1.758	-1.761	0.221	0.108	34.009	6.77	294	27.374	1028.1	68.4	0.114	1442.0	148
175	-1.681	-1.685	0.317	0.185	34.027	6.71	292	27.387	1028.2	67.0	0.130	1442.8	173
200	-1.549	-1.554	0.470	0.319	34.053	6.55	285	27.404	1028.4	65.3	0.147	1443.8	198
225	-1.315	-1.321	0.725	0.555	34.102	6.27	272	27.437	1028.5	62.3	0.163	1445.4	222
250	-1.030	-1.037	1.033	0.845	34.173	5.99	260	27.485	1028.7	57.8	0.178	1447.3	247
275	-0.880	-0.888	1.204	0.997	34.207	5.91	257	27.506	1028.8	55.8	0.192	1448.5	272
300	-0.648	-0.657	1.457	1.231	34.241	5.66	246	27.524	1029.0	54.2	0.206	1450.0	297
325	-0.378	-0.389	1.749	1.504	34.289	5.30	230	27.551	1029.1	51.9	0.219	1451.7	321
350	-0.140	-0.153	2.008	1.745	34.337	5.10	222	27.578	1029.2	49.5	0.232	1453.3	346
375	0.205	0.190	2.376	2.093	34.412	4.83	210	27.621	1029.4	45.9	0.244	1455.4	371
400	0.348	0.331	2.539	2.238	34.446	4.72	205	27.641	1029.5	44.2	0.255	1456.5	395
425	0.536	0.517	2.749	2.429	34.490	4.60	200	27.666	1029.7	42.1	0.266	1457.8	420
450	0.698	0.678	2.932	2.593	34.529	4.49	195	27.688	1029.8	40.2	0.276	1459.0	445
475	0.868	0.846	3.123	2.766	34.573	4.39	191	27.712	1030.0	38.2	0.286	1460.3	469
500	1.038	1.014	3.315	2.938	34.620	4.32	188	27.739	1030.1	36.0	0.295	1461.5	494
550	1.123	1.096	3.439	3.025	34.650	4.30	187	27.757	1030.3	34.5	0.313	1462.8	543
600	1.204	1.174	3.560	3.109	34.685	4.29	187	27.780	1030.6	32.6	0.329	1464.0	593
650	1.207	1.174	3.601	3.112	34.698	4.32	188	27.791	1030.8	31.8	0.346	1464.8	642
700	1.192	1.156	3.625	3.098	34.707	4.34	189	27.800	1031.1	31.1	0.361	1465.6	691
750	1.191	1.152	3.661	3.096	34.711	4.35	189	27.803	1031.3	30.9	0.377	1466.4	741
800	1.179	1.137	3.687	3.085	34.713	4.36	189	27.805	1031.6	30.8	0.392	1467.2	790
850	1.185	1.140	3.731	3.091	34.715	4.38	190	27.806	1031.8	30.9	0.408	1468.0	839
900	1.183	1.135	3.767	3.089	34.715	4.38	190	27.807	1032.0	31.0	0.423	1468.9	888
950	1.184	1.134	3.806	3.090	34.716	4.39	191	27.808	1032.3	31.1	0.439	1469.7	938
1000	1.183	1.129	3.842	3.089	34.716	4.39	191	27.808	1032.5	31.2	0.454	1470.5	987
1200	1.173	1.106	3.982	3.079	34.716	4.39	191	27.810	1033.4	31.6	0.517	1473.8	1184
1400	1.168	1.088	4.128	3.074	34.717	4.41	192	27.812	1034.3	31.9	0.580	1477.1	1381
1600	1.174	1.080	4.285	3.080	34.717	4.42	192	27.813	1035.2	32.5	0.645	1480.5	1577
1628	1.175	1.079	4.308	3.082	34.718	4.41	192	27.814	1035.4	32.5	0.654	1481.0	1605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0
20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
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2
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0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
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33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
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8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**092D**	2009/01/28	12:15	-74.7715	-101.1954	667	9	668	5	2.8	352	-3.3	981.8

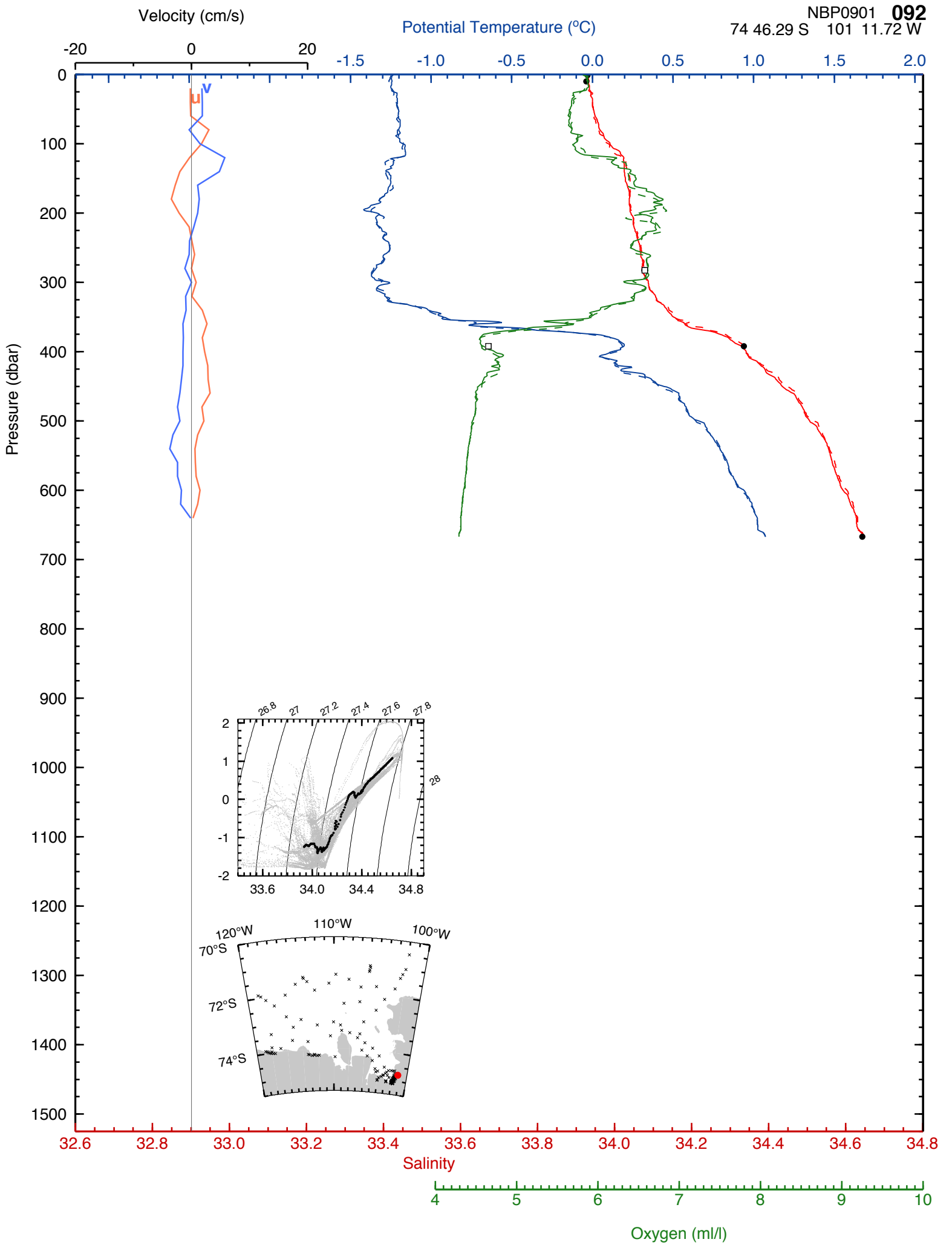
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.236	-1.236	0.626	0.625	33.934	5.81	253	95.6	27.297	1027.3	76.6	0.001	1442.0			1
25	-1.231	-1.232	0.649	0.630	33.937	5.75	250	95.7	27.300	1027.4	76.2	0.019	1442.4	0.018	354	25
50	-1.203	-1.204	0.696	0.659	33.945	5.66	246	96.2	27.306	1027.5	75.6	0.038	1442.9	0.019	355	50
75	-1.190	-1.192	0.729	0.672	33.953	5.65	246	96.4	27.312	1027.7	74.9	0.057	1443.4	0.027	173	74
100	-1.173	-1.175	0.767	0.692	33.984	5.71	248	96.6	27.336	1027.8	72.5	0.075	1443.9	0.023	51	99
125	-1.230	-1.233	0.731	0.636	34.029	6.18	268	96.8	27.375	1028.0	68.7	0.093	1444.1	0.056	353	124
150	-1.247	-1.250	0.734	0.621	34.040	6.47	281	96.5	27.384	1028.1	67.6	0.110	1444.5	0.043	318	148
175	-1.284	-1.289	0.715	0.583	34.041	6.71	292	96.4	27.386	1028.2	67.3	0.127	1444.7	0.035	291	173
200	-1.330	-1.335	0.688	0.538	34.050	6.51	283	96.9	27.395	1028.4	66.3	0.144	1444.9	0.025	297	198
225	-1.299	-1.304	0.739	0.569	34.056	6.71	291	96.5	27.399	1028.5	65.8	0.160	1445.5	0.006	296	222
250	-1.249	-1.256	0.808	0.620	34.069	6.40	278	96.9	27.408	1028.6	64.9	0.177	1446.1	0.004	150	247
275	-1.333	-1.340	0.744	0.537	34.075	6.62	288	96.7	27.415	1028.7	64.0	0.193	1446.1	0.009	159	272
300	-1.252	-1.260	0.844	0.618	34.092	6.32	275	97.1	27.426	1028.9	63.0	0.209	1447.0	0.009	106	297
325	-1.256	-1.265	0.860	0.615	34.109	6.45	280	97.1	27.441	1029.0	61.5	0.224	1447.4	0.011	171	321
350	-0.912	-0.923	1.225	0.962	34.160	5.90	257	97.1	27.470	1029.1	59.0	0.239	1449.5	0.024	116	346
375	0.026	0.012	2.190	1.907	34.286	4.59	200	95.9	27.529	1029.3	54.3	0.253	1454.4	0.027	123	371
400	0.136	0.120	2.321	2.020	34.340	4.73	206	95.8	27.567	1029.5	50.9	0.267	1455.4	0.026	124	395
425	0.200	0.183	2.408	2.088	34.394	4.79	208	96.8	27.607	1029.6	47.2	0.279	1456.2	0.032	118	420
450	0.464	0.444	2.693	2.354	34.447	4.53	197	96.9	27.635	1029.8	44.9	0.290	1457.9	0.035	121	445
475	0.590	0.569	2.840	2.482	34.487	4.49	195	97.2	27.660	1029.9	42.7	0.301	1458.9	0.034	132	469
500	0.683	0.660	2.954	2.577	34.517	4.46	194	97.3	27.679	1030.0	41.1	0.312	1459.8	0.029	136	494
550	0.842	0.816	3.153	2.739	34.566	4.39	191	97.4	27.708	1030.3	38.7	0.332	1461.4	0.035	170	543
600	0.968	0.939	3.319	2.867	34.603	4.35	189	97.6	27.731	1030.6	36.9	0.351	1462.8	0.024	147	593
650	1.056	1.024	3.447	2.958	34.631	4.31	187	97.6	27.747	1030.8	35.6	0.369	1464.1			642
667	1.107	1.073	3.511	3.009	34.647	4.29	186	97.5	27.756	1030.9	34.9	0.375	1464.6			659

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	092B	2009/01/28	12:35	-74.7714	-101.1940	667	9	668	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	d18O	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
1	-1.250	-1.250	33.933	27.297	5.85	254	33.930					11	1
10	-1.268	-1.268	33.928	27.294	5.91	257	33.926					8	10
283	-1.355	-1.362	34.074	27.416	6.59	286	34.078	6.58	286			5	280
392	0.205	0.190	34.330	27.555	4.57	198	34.336	4.65	202			3	388
667	1.107	1.073	34.647	27.757	4.29	186	34.644					1	659

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	092U	2009/01/28	12:56	-74.7716	-101.1954	667	9	668	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.249	-1.249	0.613	0.612	33.933	5.84	254	27.297	1027.3	76.6	0.001	1441.9	1
25	-1.231	-1.232	0.649	0.631	33.938	5.79	252	27.301	1027.4	76.1	0.019	1442.4	25
50	-1.204	-1.205	0.695	0.658	33.945	5.67	246	27.305	1027.5	75.6	0.038	1442.9	50
75	-1.193	-1.195	0.726	0.669	33.959	5.67	246	27.317	1027.7	74.4	0.057	1443.4	74
100	-1.171	-1.173	0.769	0.694	33.988	5.74	250	27.339	1027.8	72.1	0.075	1443.9	99
125	-1.274	-1.277	0.687	0.593	34.024	6.27	273	27.372	1028.0	68.9	0.093	1443.9	124
150	-1.265	-1.268	0.715	0.602	34.028	6.38	277	27.375	1028.1	68.5	0.110	1444.4	148
175	-1.286	-1.290	0.713	0.581	34.038	6.54	284	27.384	1028.2	67.5	0.127	1444.7	173
200	-1.355	-1.359	0.663	0.513	34.042	6.69	291	27.390	1028.3	66.8	0.144	1444.8	198
225	-1.309	-1.315	0.729	0.559	34.053	6.81	296	27.397	1028.5	66.0	0.160	1445.4	222
250	-1.250	-1.257	0.807	0.619	34.066	6.41	279	27.405	1028.6	65.1	0.177	1446.1	247
275	-1.316	-1.323	0.761	0.553	34.072	6.61	287	27.413	1028.7	64.3	0.193	1446.2	272
300	-1.306	-1.314	0.790	0.564	34.088	6.45	280	27.425	1028.9	63.0	0.209	1446.7	297
325	-1.256	-1.264	0.860	0.615	34.110	6.44	280	27.441	1029.0	61.4	0.224	1447.4	321
350	-0.919	-0.930	1.218	0.954	34.153	5.90	256	27.465	1029.1	59.5	0.240	1449.4	346
375	-0.011	-0.025	2.152	1.870	34.273	4.71	205	27.521	1029.3	55.1	0.254	1454.2	371
400	0.167	0.151	2.353	2.051	34.342	4.65	202	27.567	1029.5	50.9	0.267	1455.5	395
425	0.199	0.181	2.406	2.086	34.390	4.77	207	27.604	1029.6	47.5	0.279	1456.2	420
450	0.433	0.414	2.662	2.323	34.436	4.57	199	27.628	1029.8	45.5	0.291	1457.7	445
475	0.584	0.563	2.834	2.476	34.482	4.50	196	27.657	1029.9	43.0	0.302	1458.9	469
500	0.663	0.641	2.934	2.557	34.506	4.47	194	27.671	1030.0	41.8	0.313	1459.7	494
550	0.837	0.812	3.149	2.734	34.560	4.40	191	27.704	1030.3	39.1	0.333	1461.3	543
600	0.946	0.917	3.297	2.845	34.593	4.36	190	27.724	1030.5	37.5	0.352	1462.7	593
650	1.057	1.024	3.447	2.958	34.629	4.31	187	27.746	1030.8	35.8	0.370	1464.1	642
667	1.107	1.073	3.511	3.009	34.647	4.29	186	27.756	1030.9	34.9	0.376	1464.6	659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Potential Temperature (°C)
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1.5
2.0
Pressure (dbar)
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300
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700
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1100
1200
1300
1400
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27.2
27.4
27.6
27.8
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-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**093D**	2009/01/28	18:48	-75.0929	-101.7756	926	8	922	4	8.7	116	-6.7	982.0

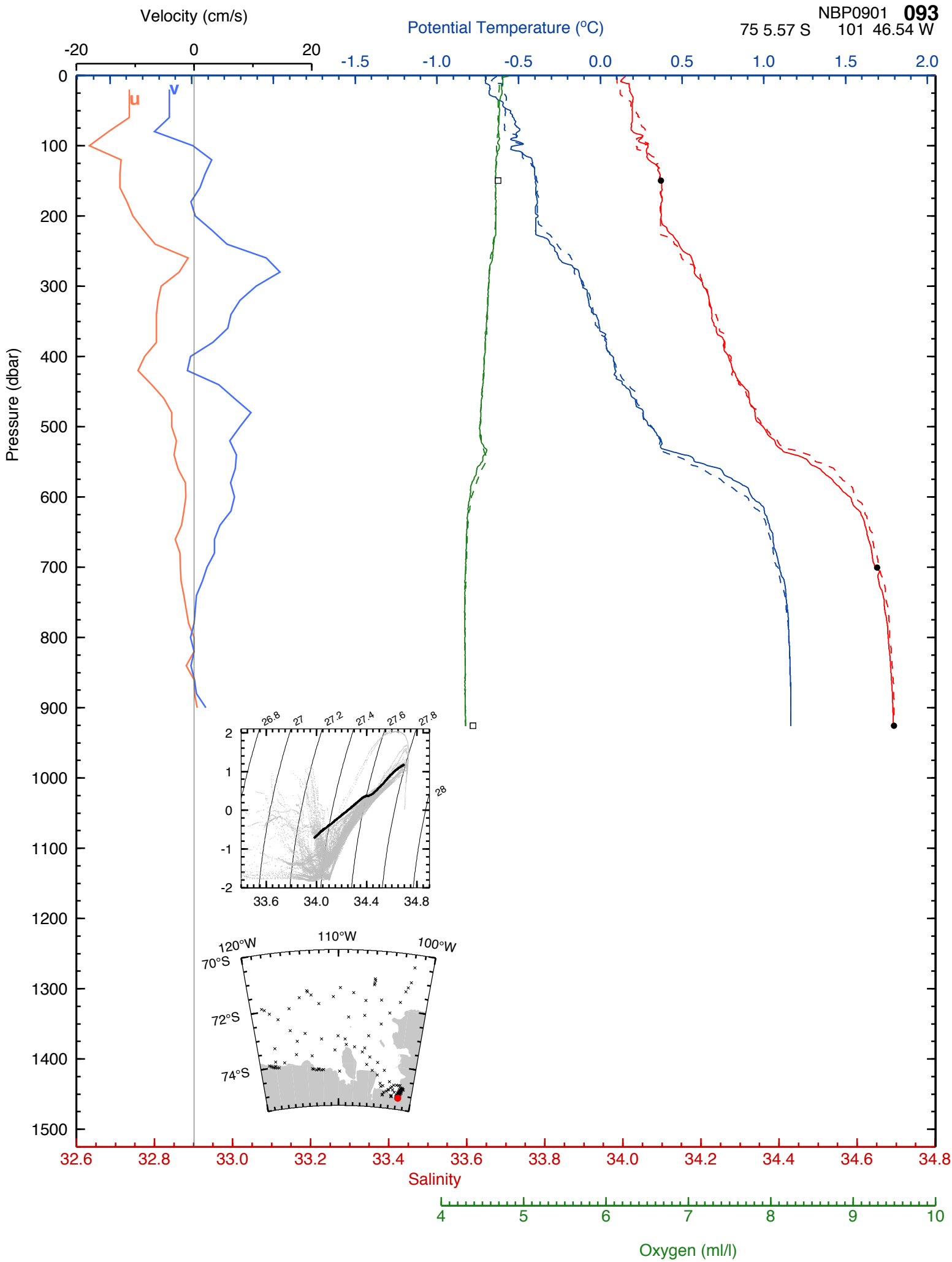
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.705	-0.705	1.159	1.159	33.983	4.74	206	94.3	27.318	1027.3	74.7	0.001	1444.5			1
25	-0.681	-0.681	1.203	1.184	33.993	4.74	206	94.5	27.325	1027.4	73.9	0.019	1445.0	0.118	249	25
50	-0.548	-0.550	1.356	1.319	34.035	4.71	205	94.7	27.353	1027.6	71.2	0.037	1446.1	0.118	249	50
75	-0.500	-0.502	1.425	1.368	34.054	4.69	204	94.7	27.367	1027.7	69.8	0.054	1446.8	0.148	246	74
100	-0.519	-0.522	1.424	1.349	34.044	4.71	205	94.7	27.359	1027.8	70.4	0.072	1447.1	0.177	268	99
125	-0.410	-0.414	1.554	1.460	34.089	4.67	203	94.6	27.391	1028.0	67.4	0.089	1448.0	0.128	283	124
150	-0.390	-0.395	1.594	1.481	34.096	4.66	203	94.7	27.396	1028.1	66.9	0.106	1448.6	0.127	277	148
175	-0.383	-0.389	1.619	1.488	34.099	4.66	203	94.6	27.398	1028.2	66.7	0.123	1449.0	0.118	270	173
200	-0.373	-0.380	1.648	1.497	34.103	4.66	203	94.6	27.401	1028.4	66.4	0.139	1449.5	0.105	271	198
225	-0.388	-0.396	1.652	1.482	34.096	4.66	203	94.6	27.396	1028.5	66.7	0.156	1449.8	0.090	292	222
250	-0.270	-0.279	1.791	1.603	34.143	4.63	201	94.7	27.428	1028.6	63.8	0.172	1450.8	0.100	326	247
275	-0.145	-0.155	1.938	1.731	34.190	4.58	199	94.6	27.460	1028.8	60.8	0.188	1451.9	0.138	352	272
300	-0.098	-0.108	2.005	1.779	34.206	4.58	199	94.6	27.471	1028.9	59.8	0.203	1452.5	0.124	335	297
325	-0.058	-0.070	2.064	1.819	34.221	4.57	199	94.7	27.481	1029.0	58.8	0.218	1453.1	0.098	322	321
350	0.001	-0.012	2.144	1.880	34.243	4.55	198	94.7	27.496	1029.2	57.4	0.232	1453.8	0.089	314	346
375	0.041	0.027	2.203	1.921	34.258	4.54	197	94.8	27.506	1029.3	56.5	0.246	1454.4	0.079	304	371
400	0.090	0.075	2.272	1.971	34.276	4.52	197	94.9	27.518	1029.4	55.5	0.260	1455.1	0.081	273	395
425	0.102	0.085	2.303	1.983	34.279	4.52	196	94.4	27.520	1029.5	55.3	0.274	1455.6	0.096	263	420
450	0.199	0.181	2.421	2.082	34.315	4.50	195	94.4	27.543	1029.7	53.2	0.288	1456.5	0.084	306	445
475	0.271	0.252	2.513	2.156	34.340	4.48	195	94.8	27.560	1029.8	51.7	0.301	1457.2	0.094	331	469
500	0.328	0.307	2.591	2.214	34.361	4.47	194	94.7	27.574	1029.9	50.4	0.314	1458.0	0.092	335	494
550	0.606	0.581	2.913	2.499	34.496	4.49	195	97.2	27.667	1030.3	42.2	0.337	1460.2	0.079	335	543
600	0.956	0.926	3.306	2.855	34.596	4.35	189	97.5	27.725	1030.5	37.4	0.357	1462.7	0.068	348	593
650	1.082	1.050	3.473	2.984	34.638	4.31	187	97.6	27.751	1030.8	35.3	0.375	1464.2	0.049	333	642
700	1.132	1.096	3.562	3.035	34.657	4.30	187	97.7	27.764	1031.0	34.4	0.392	1465.3	0.036	319	691
750	1.177	1.139	3.646	3.081	34.675	4.29	186	97.8	27.775	1031.3	33.5	0.409	1466.3	0.017	283	741
800	1.194	1.153	3.701	3.098	34.684	4.29	186	97.7	27.781	1031.5	33.2	0.426	1467.2	0.007	225	790
850	1.205	1.161	3.750	3.110	34.691	4.29	186	97.7	27.786	1031.8	32.8	0.442	1468.1	0.013	250	839
900	1.212	1.164	3.795	3.117	34.695	4.29	187	97.7	27.789	1032.0	32.7	0.459	1469.0	0.011	14	888
926	1.213	1.164	3.815	3.118	34.694	4.29	187	97.7	27.789	1032.1	32.9	0.467	1469.4			914

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	093B	2009/01/28	19:10	-75.0926	-101.7753	926	8	922	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.645	-0.646	34.003	27.332	4.73	206					-0.613	9	10
150	-0.389	-0.394	34.097	27.396	4.66	202	34.098	4.69	204		-0.455	6	148
701	1.122	1.087	34.651	27.759	4.30	187	34.652				-0.067	4	692
926	1.213	1.164	34.694	27.789	4.29	186	34.695	4.39	191			1	914

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	093U	2009/01/28	19:32	-75.0927	-101.7753	926	8	922	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.632	-0.632	1.234	1.233	34.007	4.82	209	27.334	1027.3	73.1	0.001	1444.9	1
25	-0.588	-0.589	1.297	1.278	34.020	4.70	204	27.343	1027.5	72.2	0.018	1445.5	25
50	-0.581	-0.583	1.323	1.285	34.024	4.69	204	27.345	1027.6	71.9	0.036	1446.0	50
75	-0.585	-0.587	1.338	1.281	34.021	4.69	204	27.344	1027.7	72.0	0.054	1446.3	74
100	-0.469	-0.472	1.475	1.400	34.064	4.67	203	27.373	1027.9	69.2	0.072	1447.3	99
125	-0.425	-0.429	1.538	1.444	34.079	4.67	203	27.383	1028.0	68.1	0.089	1448.0	124
150	-0.385	-0.389	1.599	1.486	34.097	4.66	202	27.396	1028.1	66.9	0.106	1448.6	148
175	-0.373	-0.379	1.630	1.498	34.100	4.66	202	27.398	1028.2	66.6	0.123	1449.0	173
200	-0.378	-0.385	1.643	1.493	34.098	4.66	202	27.397	1028.4	66.7	0.139	1449.4	198
225	-0.315	-0.322	1.727	1.557	34.122	4.65	202	27.413	1028.5	65.2	0.156	1450.2	222
250	-0.224	-0.233	1.838	1.650	34.155	4.62	201	27.436	1028.6	63.1	0.172	1451.0	247
275	-0.150	-0.160	1.932	1.725	34.183	4.59	200	27.455	1028.8	61.2	0.187	1451.8	272
300	-0.088	-0.099	2.015	1.789	34.206	4.57	199	27.470	1028.9	59.8	0.202	1452.5	297
325	-0.044	-0.056	2.078	1.834	34.223	4.56	198	27.482	1029.0	58.8	0.217	1453.2	321
350	-0.023	-0.036	2.119	1.856	34.230	4.56	198	27.487	1029.1	58.3	0.232	1453.7	346
375	0.048	0.033	2.210	1.927	34.257	4.54	197	27.504	1029.3	56.7	0.246	1454.5	371
400	0.087	0.071	2.269	1.967	34.270	4.53	197	27.513	1029.4	55.9	0.260	1455.1	395
425	0.138	0.121	2.339	2.019	34.288	4.51	196	27.525	1029.5	54.8	0.274	1455.8	420
450	0.230	0.211	2.452	2.113	34.322	4.49	195	27.547	1029.7	52.8	0.288	1456.6	445
475	0.274	0.254	2.516	2.158	34.337	4.48	195	27.557	1029.8	52.0	0.301	1457.2	469
500	0.336	0.315	2.598	2.221	34.359	4.47	194	27.572	1029.9	50.7	0.314	1458.0	494
550	0.554	0.529	2.860	2.446	34.476	4.54	197	27.654	1030.2	43.4	0.338	1460.0	543
600	0.925	0.896	3.275	2.823	34.582	4.37	190	27.716	1030.5	38.2	0.358	1462.6	593
650	1.061	1.028	3.451	2.961	34.625	4.32	188	27.742	1030.8	36.1	0.377	1464.1	642
700	1.120	1.085	3.549	3.022	34.650	4.30	187	27.758	1031.0	34.8	0.394	1465.2	691
750	1.173	1.134	3.641	3.076	34.669	4.29	186	27.771	1031.3	33.9	0.411	1466.3	741
800	1.194	1.152	3.700	3.097	34.680	4.29	186	27.778	1031.5	33.4	0.428	1467.2	790
850	1.205	1.160	3.749	3.109	34.687	4.29	186	27.783	1031.8	33.1	0.445	1468.1	839
900	1.212	1.164	3.795	3.117	34.691	4.29	186	27.786	1032.0	33.0	0.461	1469.0	888
926	1.213	1.164	3.815	3.118	34.694	4.29	187	27.789	1032.1	32.9	0.470	1469.4	914


NBP0901 093
75 5.57 S 101 46.54 W
Velocity (cm/s)
-20 0 20
u
v
Potential Temperature (°C)
-1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0
Pressure (dbar)
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500
26.8 27 27.2 27.4 27.6 27.8
28
2 1 0 -1 -2
33.6 34.0 34.4 34.8
120°W 110°W 100°W
70°S 72°S 74°S
32.6 32.8 33.0 33.2 33.4 33.6 33.8 34.0 34.2 34.4 34.6 34.8
Salinity
4 5 6 7 8 9 10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**094D**	2009/01/28	22:05	-75.0253	-102.7422	789	9	788	5	10.8	114	-5.3	981.5

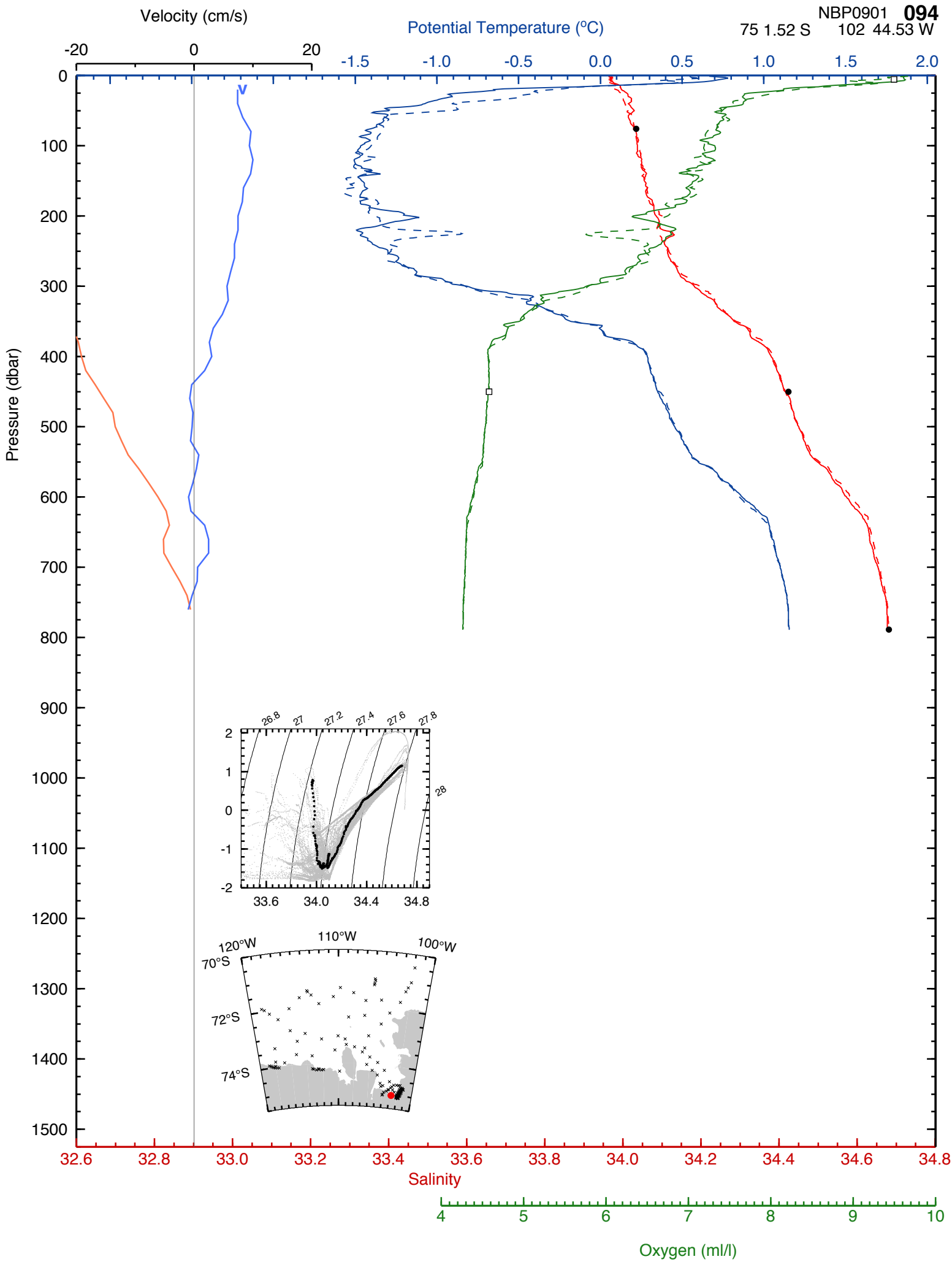
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.666	0.666	2.530	2.529	33.962	9.62	418	70.9	27.232	1027.2	82.8	0.001	1450.8			1
25	-0.865	-0.866	1.018	0.999	33.995	7.74	336	82.5	27.333	1027.5	73.1	0.020	1444.2	0.338	283	25
50	-1.295	-1.296	0.609	0.571	34.014	7.39	321	90.2	27.364	1027.6	70.0	0.038	1442.6	0.339	283	50
75	-1.387	-1.389	0.536	0.480	34.028	7.35	319	94.7	27.379	1027.7	68.5	0.055	1442.6	0.342	286	74
100	-1.463	-1.465	0.480	0.404	34.041	7.32	318	94.2	27.392	1027.9	67.1	0.072	1442.6	0.344	286	99
125	-1.498	-1.500	0.464	0.370	34.048	7.27	316	95.1	27.398	1028.0	66.3	0.089	1442.9	0.338	287	124
150	-1.456	-1.460	0.525	0.412	34.058	7.07	307	95.9	27.405	1028.1	65.6	0.105	1443.5	0.321	286	148
175	-1.431	-1.435	0.569	0.438	34.069	6.92	301	96.3	27.414	1028.3	64.6	0.121	1444.0	0.309	286	173
200	-1.161	-1.166	0.861	0.710	34.100	6.33	275	96.4	27.430	1028.4	63.1	0.137	1445.8	0.300	285	198
225	-1.452	-1.457	0.588	0.418	34.093	6.79	295	96.6	27.434	1028.5	62.5	0.153	1444.8	0.288	285	222
250	-1.294	-1.300	0.766	0.578	34.118	6.53	284	96.5	27.449	1028.6	61.0	0.169	1446.0	0.287	284	247
275	-1.134	-1.142	0.946	0.739	34.148	6.25	271	96.8	27.468	1028.8	59.2	0.184	1447.2	0.279	283	272
300	-0.807	-0.816	1.295	1.069	34.197	5.76	250	96.3	27.496	1028.9	56.8	0.198	1449.2	0.254	283	297
325	-0.440	-0.451	1.683	1.438	34.237	5.22	227	96.4	27.512	1029.1	55.5	0.212	1451.4	0.242	284	321
350	-0.166	-0.178	1.980	1.716	34.290	4.94	215	96.5	27.542	1029.2	52.9	0.226	1453.1	0.224	281	346
375	0.137	0.123	2.305	2.022	34.351	4.65	202	96.6	27.576	1029.4	50.1	0.239	1455.0	0.203	278	371
400	0.303	0.287	2.492	2.190	34.385	4.57	199	96.6	27.594	1029.5	48.5	0.251	1456.2	0.194	279	395
425	0.330	0.312	2.538	2.218	34.400	4.58	199	96.8	27.605	1029.6	47.5	0.263	1456.8	0.185	276	420
450	0.369	0.350	2.597	2.258	34.416	4.58	199	96.9	27.616	1029.7	46.6	0.275	1457.4	0.165	268	445
475	0.425	0.405	2.672	2.315	34.434	4.55	198	97.0	27.627	1029.9	45.6	0.286	1458.1	0.146	268	469
500	0.476	0.454	2.743	2.367	34.451	4.54	197	97.1	27.638	1030.0	44.7	0.298	1458.7	0.135	269	494
550	0.624	0.599	2.932	2.518	34.503	4.50	196	97.3	27.671	1030.3	41.8	0.319	1460.3	0.109	274	543
600	0.895	0.867	3.245	2.794	34.583	4.38	190	97.5	27.719	1030.5	37.9	0.339	1462.5	0.068	264	593
650	1.076	1.044	3.467	2.978	34.636	4.31	187	97.6	27.750	1030.8	35.4	0.357	1464.2	0.047	293	642
700	1.135	1.100	3.565	3.038	34.657	4.29	186	97.7	27.763	1031.0	34.5	0.375	1465.3	0.046	286	691
750	1.181	1.142	3.649	3.085	34.676	4.27	186	97.5	27.776	1031.3	33.5	0.392	1466.3	0.012	254	741
789	1.194	1.153	3.693	3.098	34.681	4.26	185	97.5	27.778	1031.5	33.4	0.405	1467.0			779

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	094B	2009/01/28	22:27	-75.0245	-102.7412	788	9	788	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
6	0.560	0.560	33.971	27.245	9.42	410		9.50	413			9	5
76	-1.337	-1.339	34.032	27.380	7.27	316	34.034					7	75
225	-0.773	-0.780	34.131	27.440	5.59	243						6	222
450	0.377	0.358	34.417	27.616	4.57	199	34.425	4.58	199			3	445
788	1.196	1.155	34.681	27.779	4.26	185	34.681					1	779

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	094U	2009/01/28	22:46	-75.0242	-102.7409	788	9	788	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.545	0.545	2.409	2.408	33.971	9.67	420	27.246	1027.2	81.5	0.001	1450.3	1
25	-0.381	-0.382	1.503	1.484	34.010	8.02	348	27.326	1027.4	73.8	0.020	1446.5	25
50	-0.918	-0.919	0.987	0.949	34.029	7.41	322	27.363	1027.6	70.2	0.038	1444.4	50
75	-1.329	-1.331	0.594	0.537	34.029	7.34	319	27.378	1027.7	68.6	0.055	1442.8	74
100	-1.401	-1.403	0.541	0.466	34.037	7.19	313	27.387	1027.9	67.6	0.072	1442.9	99
125	-1.484	-1.487	0.478	0.383	34.048	7.19	312	27.398	1028.0	66.4	0.089	1442.9	124
150	-1.529	-1.532	0.452	0.339	34.055	7.15	311	27.406	1028.1	65.5	0.105	1443.1	148
175	-1.413	-1.417	0.588	0.456	34.068	6.93	301	27.412	1028.3	64.8	0.121	1444.1	173
200	-1.374	-1.379	0.646	0.496	34.086	6.75	293	27.425	1028.4	63.4	0.137	1444.7	198
225	-0.841	-0.847	1.201	1.032	34.128	5.77	251	27.440	1028.5	62.2	0.153	1447.7	222
250	-1.274	-1.280	0.786	0.598	34.114	6.48	281	27.445	1028.6	61.4	0.169	1446.1	247
275	-1.163	-1.171	0.917	0.710	34.138	6.30	274	27.461	1028.8	59.9	0.184	1447.0	272
300	-0.819	-0.828	1.283	1.057	34.182	5.79	252	27.484	1028.9	57.9	0.199	1449.1	297
325	-0.373	-0.384	1.750	1.505	34.239	5.19	225	27.511	1029.1	55.7	0.213	1451.7	321
350	-0.143	-0.156	2.001	1.738	34.286	4.96	216	27.538	1029.2	53.4	0.226	1453.2	346
375	0.094	0.080	2.261	1.979	34.334	4.76	207	27.564	1029.3	51.1	0.239	1454.8	371
400	0.301	0.285	2.489	2.188	34.380	4.57	199	27.590	1029.5	48.9	0.252	1456.2	395
425	0.339	0.321	2.547	2.227	34.400	4.58	199	27.604	1029.6	47.6	0.264	1456.8	420
450	0.379	0.360	2.606	2.267	34.416	4.57	199	27.615	1029.7	46.6	0.276	1457.4	445
475	0.437	0.417	2.685	2.327	34.433	4.55	198	27.626	1029.9	45.7	0.287	1458.1	469
500	0.486	0.465	2.754	2.377	34.450	4.53	197	27.637	1030.0	44.8	0.298	1458.8	494
550	0.629	0.604	2.937	2.523	34.498	4.50	195	27.667	1030.3	42.2	0.320	1460.3	543
600	0.880	0.851	3.229	2.777	34.573	4.39	191	27.712	1030.5	38.5	0.340	1462.4	593
650	1.071	1.039	3.462	2.972	34.630	4.31	187	27.745	1030.8	35.8	0.359	1464.1	642
700	1.137	1.101	3.567	3.040	34.653	4.29	186	27.760	1031.0	34.7	0.377	1465.3	691
750	1.185	1.146	3.653	3.089	34.675	4.27	186	27.774	1031.3	33.6	0.394	1466.3	741
789	1.194	1.153	3.693	3.098	34.681	4.26	185	27.778	1031.5	33.4	0.407	1467.0	779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75 1.52 S
102 44.53 W
Pressure (dbar)
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120°W
110°W
100°W
70°S
72°S
74°S
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33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**095D**	2009/01/29	00:05	-75.0508	-102.7416	628	6	626	3	11.6	122	-5.6	981.3

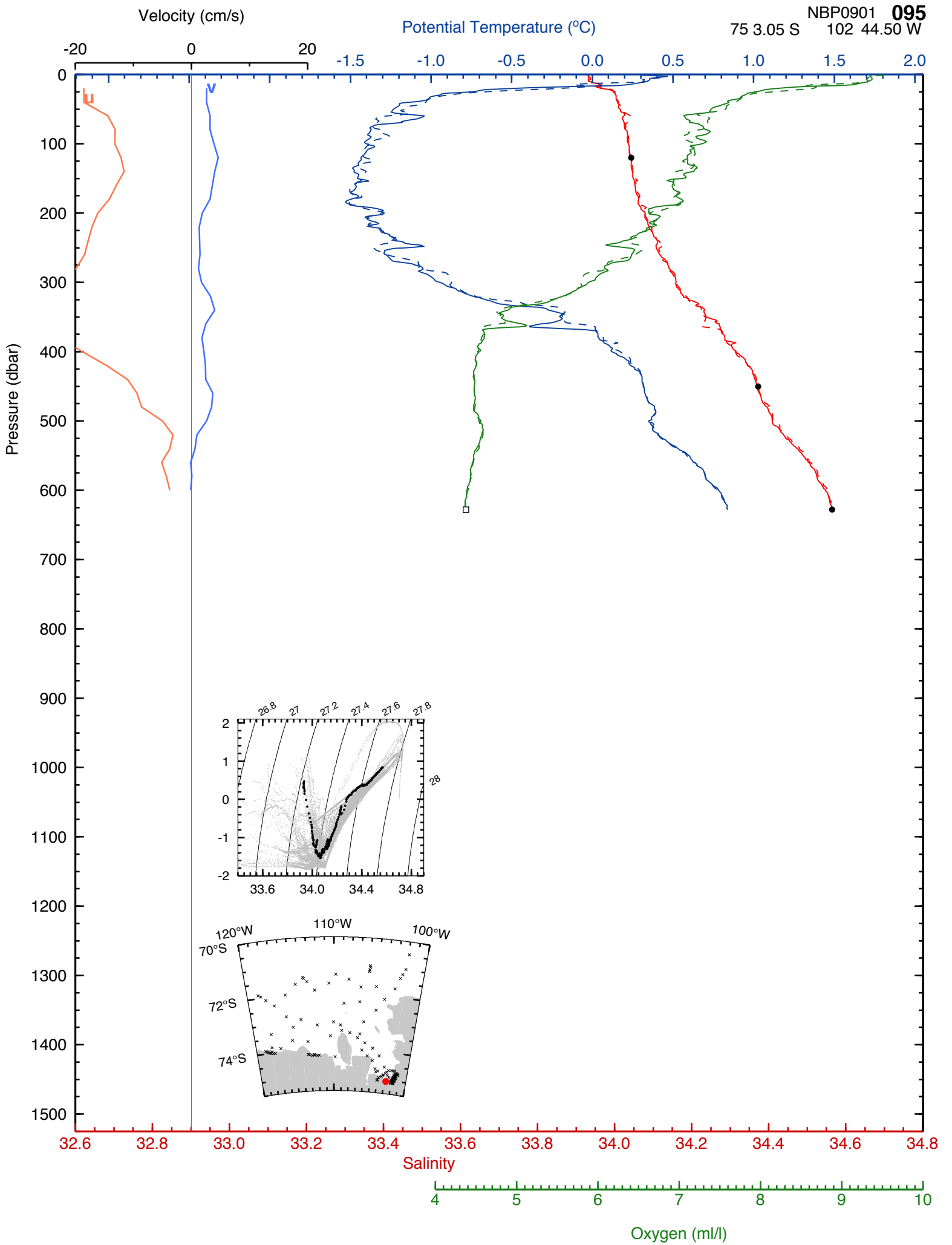
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.305	0.305	2.167	2.166	33.929	9.37	407	72.3	27.226	1027.2	83.4	0.001	1449.1			1
25	-0.751	-0.752	1.132	1.113	33.997	7.94	345	80.4	27.331	1027.5	73.3	0.020	1444.7	0.187	278	25
50	-1.231	-1.233	0.673	0.635	34.021	7.39	321	89.5	27.368	1027.6	69.6	0.038	1442.9	0.169	280	50
75	-1.362	-1.364	0.561	0.505	34.029	7.29	317	92.3	27.379	1027.7	68.5	0.055	1442.7	0.139	283	74
100	-1.402	-1.405	0.540	0.465	34.036	7.28	316	93.4	27.386	1027.9	67.7	0.072	1442.9	0.138	286	99
125	-1.440	-1.443	0.522	0.428	34.045	7.11	309	94.5	27.394	1028.0	66.7	0.089	1443.2	0.128	290	124
150	-1.453	-1.457	0.528	0.415	34.051	7.04	306	95.0	27.400	1028.1	66.0	0.106	1443.5	0.128	288	148
175	-1.449	-1.453	0.552	0.420	34.065	6.96	302	95.8	27.411	1028.3	64.9	0.122	1443.9	0.141	284	173
200	-1.285	-1.290	0.735	0.584	34.084	6.63	288	96.1	27.421	1028.4	63.9	0.138	1445.2	0.160	277	198
225	-1.302	-1.308	0.737	0.568	34.096	6.60	287	96.4	27.432	1028.5	62.7	0.154	1445.5	0.172	274	222
250	-1.155	-1.161	0.905	0.717	34.117	6.36	276	96.4	27.443	1028.6	61.7	0.169	1446.6	0.181	275	247
275	-1.093	-1.101	0.987	0.780	34.140	6.11	266	96.3	27.460	1028.8	60.0	0.185	1447.4	0.193	274	272
300	-0.939	-0.948	1.161	0.935	34.159	5.88	256	96.4	27.470	1028.9	59.2	0.199	1448.5	0.211	274	297
325	-0.650	-0.660	1.470	1.226	34.192	5.45	237	96.2	27.485	1029.0	57.9	0.214	1450.3	0.222	279	321
350	-0.186	-0.198	1.956	1.693	34.236	4.82	210	95.3	27.499	1029.2	57.0	0.228	1453.0	0.253	278	346
375	0.048	0.034	2.212	1.930	34.282	4.61	200	95.3	27.525	1029.3	54.7	0.242	1454.5	0.240	275	371
400	0.137	0.121	2.321	2.020	34.313	4.54	197	95.3	27.545	1029.4	53.0	0.256	1455.4	0.198	276	395
425	0.281	0.263	2.486	2.166	34.354	4.49	195	95.7	27.571	1029.6	50.7	0.269	1456.5	0.148	279	420
450	0.335	0.316	2.560	2.221	34.373	4.48	195	95.7	27.583	1029.7	49.6	0.281	1457.2	0.110	285	445
475	0.379	0.359	2.624	2.266	34.394	4.48	195	95.7	27.597	1029.8	48.3	0.294	1457.8	0.097	292	469
500	0.370	0.349	2.635	2.259	34.410	4.56	198	96.4	27.611	1030.0	47.0	0.306	1458.2	0.067	296	494
550	0.624	0.599	2.932	2.518	34.498	4.47	194	97.2	27.668	1030.3	42.2	0.328	1460.3	0.039	277	543
600	0.810	0.782	3.158	2.707	34.552	4.39	191	97.2	27.700	1030.5	39.5	0.348	1462.0	0.039	270	593
628	0.868	0.838	3.238	2.765	34.567	4.37	190	97.2	27.708	1030.7	38.9	0.359	1462.8			620

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	095B	2009/01/29	00:22	-75.0511	-102.7420	628	6	626	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
120	-1.386	-1.389	34.045	27.393	7.11	309	34.044					7	119
450	0.339	0.321	34.372	27.582	4.48	195	34.373					3	445
628	0.866	0.836	34.567	27.708	4.37	190	34.565	4.37	190			1	620

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	095U	2009/01/29	00:42	-75.0519	-102.7428	628	6	626	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.369	0.369	2.231	2.230	33.932	9.52	414	27.225	1027.2	83.5	0.001	1449.4	1
25	-0.669	-0.670	1.215	1.196	34.001	8.14	354	27.330	1027.5	73.4	0.020	1445.1	25
50	-1.152	-1.153	0.751	0.714	34.014	7.57	329	27.360	1027.6	70.5	0.038	1443.3	50
75	-1.362	-1.364	0.561	0.505	34.026	7.36	320	27.376	1027.7	68.7	0.055	1442.7	74
100	-1.390	-1.392	0.553	0.477	34.036	7.19	312	27.385	1027.9	67.7	0.072	1443.0	99
125	-1.354	-1.357	0.608	0.514	34.044	7.04	306	27.391	1028.0	67.1	0.089	1443.6	124
150	-1.423	-1.427	0.557	0.444	34.048	6.95	302	27.397	1028.1	66.4	0.106	1443.6	148
175	-1.439	-1.443	0.561	0.429	34.060	6.96	303	27.406	1028.2	65.3	0.122	1444.0	173
200	-1.301	-1.306	0.719	0.569	34.079	6.63	288	27.418	1028.4	64.2	0.139	1445.1	198
225	-1.301	-1.306	0.739	0.570	34.096	6.59	287	27.431	1028.5	62.8	0.154	1445.5	222
250	-1.348	-1.354	0.711	0.523	34.108	6.56	285	27.443	1028.6	61.5	0.170	1445.7	247
275	-1.067	-1.074	1.013	0.806	34.139	6.11	266	27.458	1028.8	60.2	0.185	1447.5	272
300	-0.863	-0.872	1.237	1.011	34.159	5.79	252	27.467	1028.9	59.5	0.200	1448.9	297
325	-0.592	-0.603	1.528	1.284	34.192	5.40	235	27.483	1029.0	58.1	0.215	1450.6	321
350	-0.172	-0.185	1.970	1.706	34.239	4.81	209	27.501	1029.2	56.8	0.229	1453.0	346
375	0.061	0.047	2.225	1.942	34.282	4.59	200	27.524	1029.3	54.8	0.243	1454.6	371
400	0.186	0.170	2.370	2.069	34.315	4.52	196	27.544	1029.4	53.1	0.257	1455.6	395
425	0.303	0.286	2.509	2.189	34.356	4.49	195	27.571	1029.6	50.7	0.269	1456.6	420
450	0.336	0.317	2.561	2.222	34.370	4.48	195	27.581	1029.7	49.8	0.282	1457.2	445
475	0.373	0.353	2.618	2.260	34.387	4.49	195	27.592	1029.8	48.8	0.294	1457.8	469
500	0.388	0.367	2.653	2.276	34.410	4.54	197	27.610	1030.0	47.2	0.306	1458.3	494
550	0.612	0.587	2.919	2.505	34.490	4.48	195	27.661	1030.3	42.7	0.329	1460.2	543
600	0.808	0.780	3.157	2.705	34.548	4.40	191	27.696	1030.5	39.9	0.349	1462.0	593
628	0.868	0.838	3.238	2.765	34.567	4.37	190	27.708	1030.7	38.9	0.360	1462.8	620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120°W
110°W
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70°S
72°S
74°S
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34.0
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34.4
34.6
34.8
Salinity
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**096D**	2009/01/29	01:12	-75.0600	-102.7449	413	7	415	4	11.5	116	-5.4	981.0

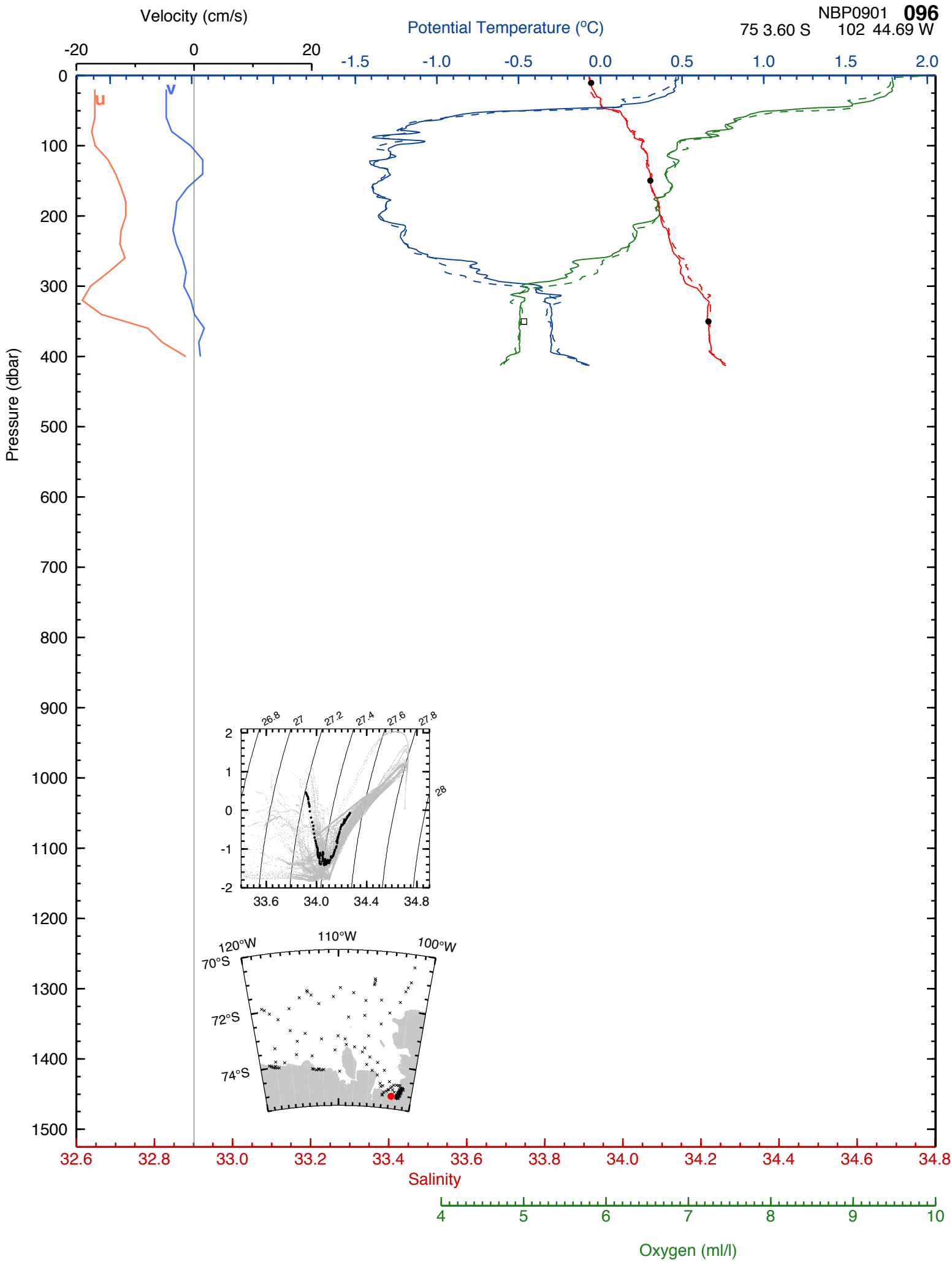
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.462	0.462	2.323	2.322	33.916	9.47	412	70.2	27.206	1027.2	85.2	0.002	1449.8			2
25	0.430	0.429	2.310	2.291	33.919	9.43	410	70.7	27.211	1027.3	84.8	0.021	1450.1	0.175	254	25
50	-0.485	-0.487	1.416	1.378	33.975	8.05	350	78.0	27.302	1027.5	76.0	0.042	1446.3	0.175	254	50
75	-1.187	-1.189	0.735	0.679	34.015	7.54	328	85.2	27.362	1027.7	70.1	0.060	1443.5	0.177	257	74
100	-1.258	-1.261	0.685	0.610	34.052	6.86	298	94.8	27.394	1027.9	67.0	0.077	1443.6	0.169	267	99
125	-1.405	-1.408	0.558	0.464	34.064	6.87	299	96.4	27.408	1028.0	65.4	0.093	1443.3	0.145	276	124
150	-1.348	-1.352	0.634	0.521	34.073	6.76	294	96.1	27.414	1028.1	64.8	0.110	1444.0	0.130	272	148
175	-1.317	-1.321	0.685	0.554	34.090	6.59	287	96.5	27.427	1028.3	63.4	0.126	1444.6	0.121	259	173
200	-1.354	-1.359	0.667	0.517	34.098	6.64	289	96.4	27.435	1028.4	62.5	0.141	1444.8	0.120	255	198
225	-1.215	-1.220	0.827	0.657	34.118	6.37	277	96.2	27.447	1028.5	61.4	0.157	1445.9	0.129	254	222
250	-1.110	-1.116	0.952	0.763	34.139	6.16	268	96.1	27.459	1028.7	60.2	0.172	1446.9	0.126	258	247
275	-0.754	-0.763	1.327	1.120	34.166	5.57	242	95.8	27.468	1028.8	59.5	0.187	1449.0	0.135	263	272
300	-0.358	-0.368	1.745	1.519	34.199	4.99	217	95.3	27.478	1028.9	58.9	0.202	1451.3	0.172	265	297
325	-0.296	-0.307	1.826	1.582	34.225	4.96	216	95.6	27.495	1029.0	57.2	0.216	1452.0	0.188	269	321
350	-0.286	-0.299	1.855	1.591	34.223	4.95	215	95.5	27.494	1029.2	57.3	0.231	1452.5	0.134	274	346
375	-0.288	-0.301	1.872	1.590	34.223	4.95	215	95.5	27.494	1029.3	57.3	0.245	1452.9	0.067	280	371
400	-0.174	-0.188	2.006	1.705	34.244	4.81	209	95.5	27.506	1029.4	56.3	0.259	1453.8	0.027	301	395
413	-0.051	-0.066	2.140	1.830	34.265	4.71	205	95.5	27.516	1029.5	55.4	0.267	1454.7			408

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	096B	2009/01/29	01:25	-75.0600	-102.7447	413	7	415	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
11	0.447	0.447	33.917	27.208	9.45	411	33.919					8,7	11
150	-1.339	-1.343	34.073	27.414	6.74	293	34.071					5	148
350	-0.302	-0.314	34.219	27.492	4.97	216	34.219	5.00	217			4,3	346
413	-0.070	-0.086	34.262	27.515	4.74	206						1	408

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	096U	2009/01/29	01:39	-75.0602	-102.7448	413	7	415	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.478	0.478	2.339	2.338	33.914	9.80	426	27.204	1027.2	85.5	0.001	1449.9	1
25	0.340	0.339	2.219	2.200	33.928	9.31	405	27.223	1027.3	83.6	0.021	1449.7	25
50	-0.413	-0.415	1.489	1.451	33.988	8.53	371	27.309	1027.5	75.4	0.042	1446.7	50
75	-1.212	-1.214	0.710	0.654	34.014	7.47	325	27.362	1027.7	70.1	0.060	1443.4	74
100	-1.351	-1.353	0.592	0.517	34.047	6.95	302	27.393	1027.9	67.0	0.077	1443.2	99
125	-1.384	-1.387	0.578	0.484	34.061	6.84	297	27.405	1028.0	65.7	0.093	1443.4	124
150	-1.352	-1.355	0.630	0.517	34.072	6.76	294	27.414	1028.1	64.8	0.109	1444.0	148
175	-1.304	-1.308	0.698	0.566	34.087	6.63	288	27.424	1028.3	63.7	0.126	1444.7	173
200	-1.343	-1.348	0.678	0.528	34.096	6.64	288	27.433	1028.4	62.8	0.141	1444.9	198
225	-1.189	-1.195	0.852	0.683	34.116	6.33	275	27.444	1028.5	61.7	0.157	1446.1	222
250	-1.160	-1.166	0.901	0.713	34.127	6.26	272	27.452	1028.7	60.8	0.172	1446.6	247
275	-0.937	-0.945	1.144	0.937	34.149	5.88	256	27.461	1028.8	60.0	0.187	1448.1	272
300	-0.491	-0.501	1.610	1.384	34.175	5.29	230	27.464	1028.9	60.1	0.202	1450.6	297
325	-0.266	-0.278	1.856	1.611	34.220	4.87	212	27.491	1029.0	57.7	0.217	1452.2	321
350	-0.309	-0.321	1.832	1.569	34.219	4.98	216	27.491	1029.2	57.6	0.232	1452.4	346
375	-0.274	-0.287	1.886	1.604	34.221	4.94	215	27.492	1029.3	57.5	0.246	1452.9	371
400	-0.201	-0.215	1.979	1.678	34.235	4.88	212	27.500	1029.4	56.8	0.260	1453.7	395
413	-0.051	-0.066	2.140	1.830	34.265	4.71	205	27.516	1029.5	55.4	0.268	1454.7	408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102 44.69 W
Pressure (dbar)
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1500
26.8
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27.2
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27.6
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-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
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33.0
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34.0
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34.6
34.8
Salinity
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**097D**	2009/01/29	02:05	-75.0684	-102.7421	305	10	312	5	11.5	118	-5.5	980.7

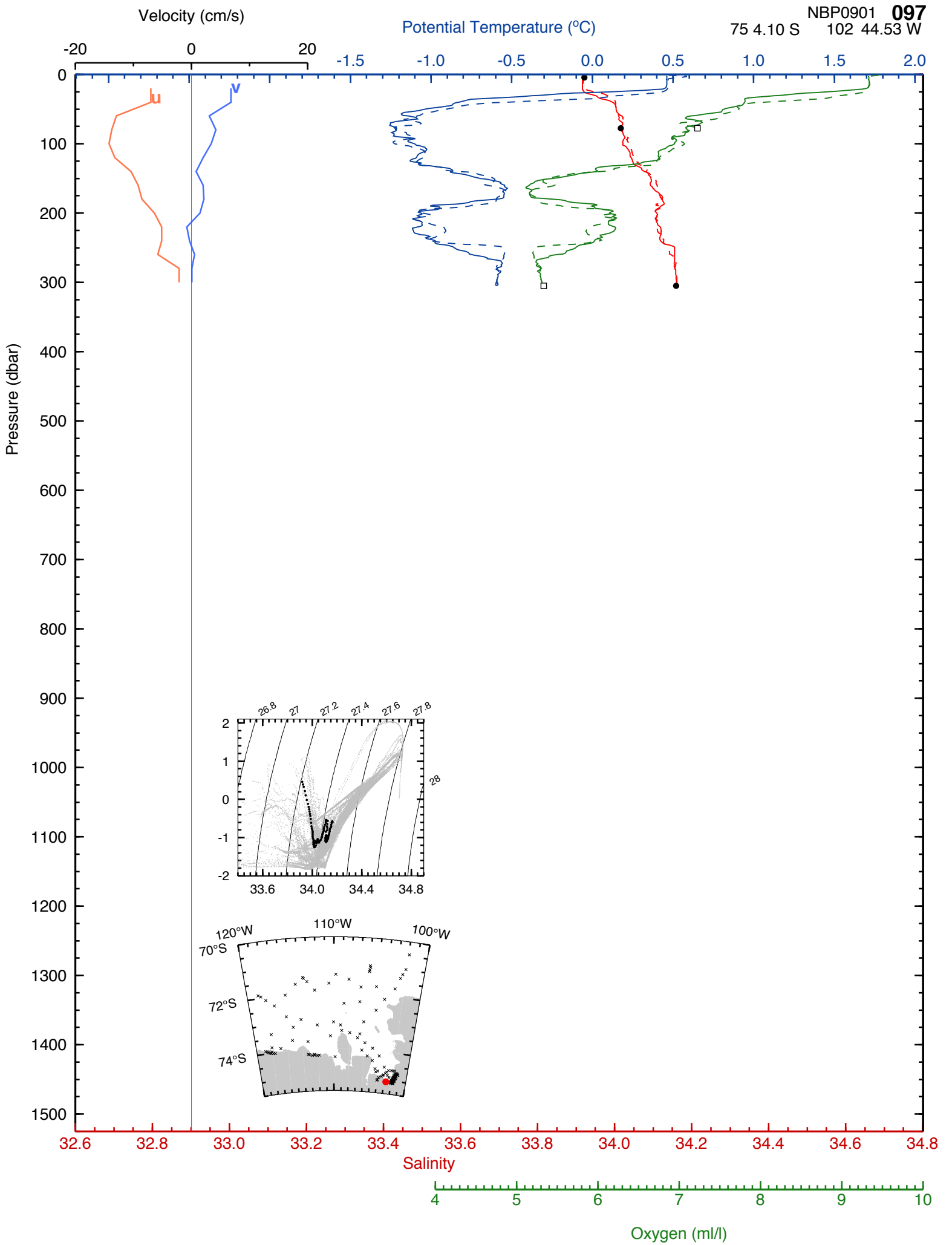
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.460	0.460	2.322	2.320	33.919	9.33	406	71.8	27.209	1027.2	85.0	0.002	1449.8			2
25	0.111	0.110	1.992	1.973	33.947	8.82	383	74.6	27.250	1027.4	81.0	0.021	1448.6	0.098	314	25
50	-1.040	-1.041	0.863	0.825	34.007	7.55	328	84.2	27.350	1027.6	71.4	0.040	1443.8	0.115	300	50
75	-1.238	-1.240	0.685	0.628	34.020	7.12	309	94.1	27.367	1027.7	69.6	0.057	1443.3	0.140	286	74
100	-1.102	-1.104	0.841	0.765	34.037	6.94	302	93.6	27.377	1027.9	68.6	0.075	1444.3	0.146	284	99
125	-1.126	-1.129	0.836	0.742	34.053	6.65	289	95.7	27.390	1028.0	67.2	0.092	1444.7	0.129	278	124
150	-0.690	-0.695	1.294	1.181	34.100	5.44	236	94.9	27.412	1028.1	65.3	0.108	1447.2	0.100	278	148
175	-0.544	-0.549	1.460	1.328	34.118	5.17	225	95.4	27.420	1028.3	64.5	0.124	1448.3	0.090	283	173
200	-1.057	-1.063	0.965	0.814	34.111	6.14	267	95.6	27.435	1028.4	62.7	0.140	1446.3	0.069	283	198
225	-1.105	-1.111	0.936	0.767	34.112	6.20	270	96.0	27.438	1028.5	62.3	0.156	1446.5	0.052	262	222
250	-0.848	-0.855	1.213	1.025	34.138	5.72	249	95.8	27.449	1028.6	61.4	0.171	1448.1	0.053	270	247
275	-0.557	-0.566	1.524	1.317	34.158	5.24	228	95.4	27.454	1028.8	61.1	0.187	1449.9	0.036	274	272
300	-0.586	-0.596	1.514	1.288	34.162	5.31	231	95.3	27.458	1028.9	60.6	0.202	1450.2	0.021	273	297
305	-0.585	-0.595	1.519	1.289	34.163	5.31	231	95.4	27.458	1028.9	60.5	0.205	1450.3			302

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	097B	2009/01/29	02:15	-75.0688	-102.7429	305	10	312	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
5	0.514	0.514	33.917	27.204	9.32	405		33.921					9	5
78	-1.218	-1.220	34.019	27.366	7.15	311		34.016	7.22	314			7	77
170	-0.587	-0.592	34.124	27.427	5.21	226							5	168
211	-1.054	-1.060	34.110	27.434	5.90	257							3	208
305	-0.581	-0.591	34.164	27.459	5.32	231		34.160	5.33	232			1	302

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	097U	2009/01/29	02:27	-75.0689	-102.7430	305	10	312	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.474	0.474	2.335	2.334	33.917	9.45	411	27.207	1027.2	85.2	0.001	1449.9	1
25	0.434	0.433	2.313	2.294	33.921	9.28	404	27.212	1027.3	84.7	0.021	1450.1	25
50	-0.909	-0.910	0.994	0.956	34.004	7.73	336	27.343	1027.6	72.1	0.041	1444.4	50
75	-1.199	-1.201	0.724	0.667	34.016	7.14	311	27.363	1027.7	70.0	0.058	1443.4	74
100	-1.222	-1.225	0.719	0.644	34.022	7.06	307	27.369	1027.8	69.4	0.076	1443.7	99
125	-1.085	-1.088	0.877	0.783	34.047	6.72	292	27.384	1028.0	67.8	0.093	1444.8	124
150	-0.606	-0.611	1.377	1.264	34.094	5.38	234	27.404	1028.1	66.1	0.110	1447.5	148
175	-0.564	-0.569	1.440	1.308	34.122	5.20	226	27.424	1028.3	64.1	0.126	1448.2	173
200	-1.051	-1.057	0.971	0.820	34.110	6.18	269	27.434	1028.4	62.8	0.142	1446.3	198
225	-0.903	-0.909	1.138	0.969	34.121	5.86	255	27.438	1028.5	62.5	0.157	1447.4	222
250	-0.538	-0.546	1.525	1.336	34.156	5.21	226	27.451	1028.6	61.4	0.173	1449.6	247
275	-0.579	-0.588	1.502	1.295	34.155	5.27	229	27.452	1028.8	61.2	0.188	1449.8	272
300	-0.581	-0.591	1.519	1.293	34.162	5.31	231	27.457	1028.9	60.6	0.204	1450.2	297
305	-0.585	-0.595	1.519	1.289	34.163	5.31	231	27.458	1028.9	60.5	0.207	1450.3	302


Velocity (cm/s)
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Potential Temperature (°C)
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NBP0901 097
75 4.10 S
102 44.53 W
Pressure (dbar)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**098D**	2009/01/29	13:52	-74.9057	-102.3782	945	9	942	4	13.0	135	-8.7	979.2

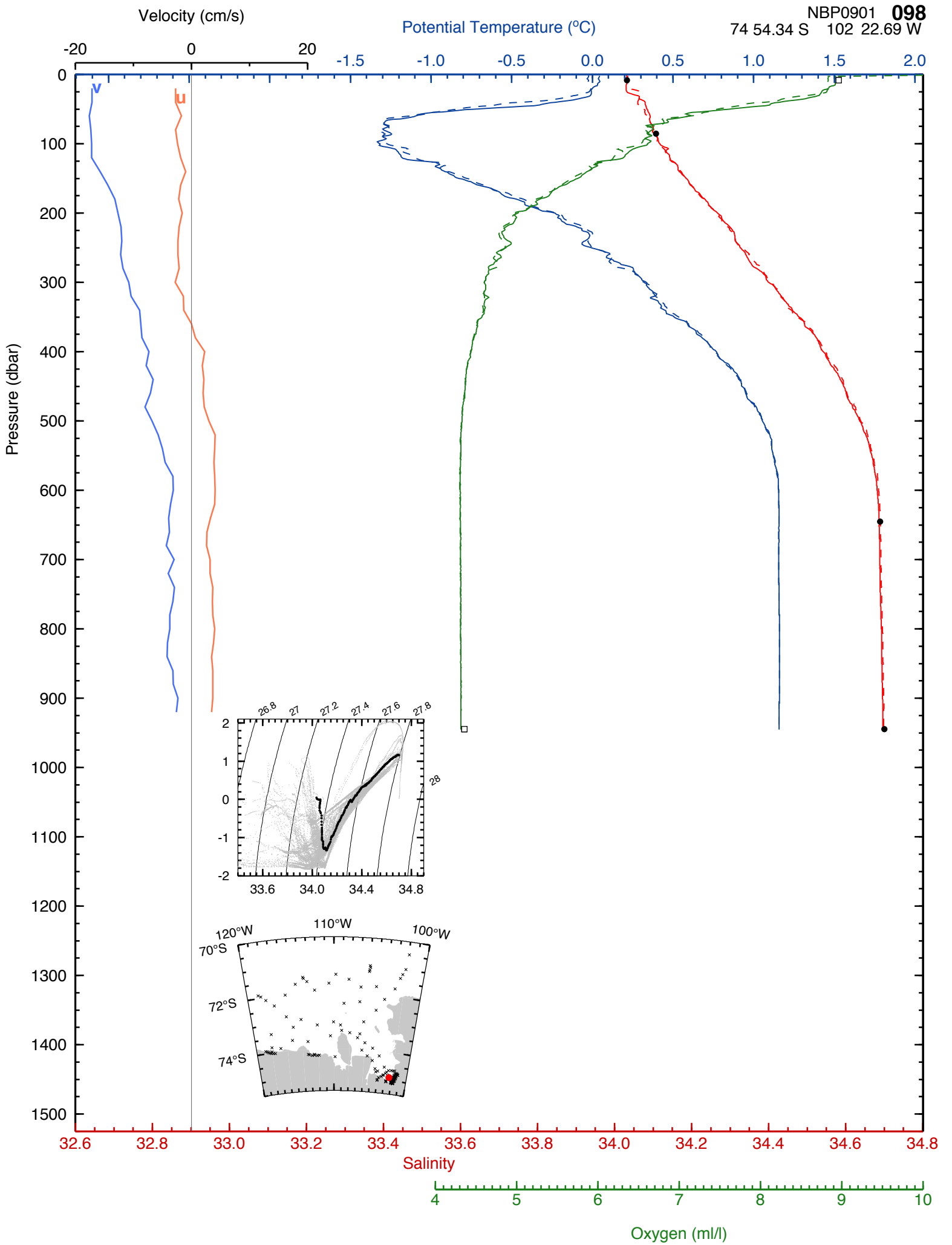
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.041	0.041	1.909	1.908	34.033	8.92	388	79.0	27.324	1027.3	74.1	0.001	1448.1			2
25	-0.005	-0.006	1.882	1.864	34.066	8.75	380	81.8	27.352	1027.5	71.3	0.018	1448.3	0.173	189	25
50	-0.740	-0.742	1.167	1.129	34.077	7.61	331	86.6	27.395	1027.6	67.2	0.036	1445.3	0.175	187	50
75	-1.260	-1.262	0.667	0.610	34.099	6.61	287	93.5	27.433	1027.8	63.4	0.052	1443.3	0.176	188	74
100	-1.316	-1.318	0.631	0.556	34.114	6.61	287	94.2	27.447	1027.9	62.0	0.068	1443.4	0.174	188	99
125	-1.044	-1.047	0.924	0.830	34.151	6.04	263	94.3	27.467	1028.1	60.0	0.083	1445.2	0.170	186	124
150	-0.821	-0.825	1.167	1.054	34.185	5.75	250	95.7	27.486	1028.2	58.2	0.098	1446.7	0.152	185	148
175	-0.544	-0.550	1.465	1.334	34.221	5.40	235	95.9	27.504	1028.3	56.6	0.112	1448.4	0.138	189	173
200	-0.225	-0.232	1.805	1.655	34.267	4.99	217	95.5	27.526	1028.5	54.6	0.126	1450.4	0.129	187	198
225	-0.057	-0.065	1.994	1.825	34.300	4.85	211	95.7	27.544	1028.6	53.0	0.140	1451.6	0.123	190	222
250	0.005	-0.005	2.077	1.888	34.330	4.87	212	96.3	27.565	1028.8	51.0	0.153	1452.3	0.123	191	247
275	0.201	0.190	2.294	2.087	34.372	4.69	204	96.4	27.589	1028.9	48.9	0.165	1453.7	0.122	190	272
300	0.345	0.333	2.460	2.234	34.407	4.60	200	96.4	27.610	1029.0	47.1	0.177	1454.8	0.113	194	297
325	0.403	0.390	2.538	2.293	34.440	4.61	201	96.7	27.633	1029.2	45.0	0.189	1455.5	0.104	188	321
350	0.523	0.508	2.679	2.415	34.477	4.57	199	96.9	27.655	1029.3	43.0	0.200	1456.5	0.089	186	346
375	0.665	0.648	2.842	2.559	34.517	4.49	195	97.1	27.679	1029.5	40.9	0.210	1457.6	0.086	178	371
400	0.787	0.769	2.984	2.683	34.549	4.43	193	97.2	27.698	1029.6	39.3	0.220	1458.6	0.079	165	395
425	0.891	0.871	3.109	2.789	34.578	4.39	191	97.1	27.715	1029.7	37.9	0.230	1459.6	0.080	166	420
450	0.949	0.928	3.187	2.848	34.596	4.37	190	97.3	27.726	1029.8	37.0	0.239	1460.2	0.070	163	445
475	1.027	1.004	3.285	2.927	34.621	4.34	189	97.3	27.741	1030.0	35.8	0.248	1461.0	0.078	164	469
500	1.079	1.054	3.357	2.980	34.639	4.33	188	97.4	27.752	1030.1	34.8	0.257	1461.7	0.077	159	494
550	1.149	1.121	3.466	3.052	34.671	4.31	187	97.5	27.773	1030.4	33.1	0.274	1462.9	0.063	141	543
600	1.184	1.154	3.541	3.089	34.686	4.30	187	97.5	27.782	1030.6	32.4	0.290	1463.9	0.051	128	593
650	1.189	1.156	3.583	3.094	34.690	4.31	187	97.5	27.786	1030.8	32.3	0.306	1464.7	0.051	140	642
700	1.191	1.155	3.623	3.096	34.692	4.31	187	97.5	27.787	1031.1	32.3	0.323	1465.6	0.047	140	691
750	1.195	1.156	3.664	3.100	34.693	4.31	187	97.5	27.788	1031.3	32.3	0.339	1466.4	0.047	128	741
800	1.202	1.160	3.709	3.107	34.696	4.31	187	97.5	27.790	1031.5	32.3	0.355	1467.3	0.053	134	790
850	1.205	1.160	3.750	3.110	34.697	4.31	187	97.4	27.791	1031.8	32.4	0.371	1468.1	0.055	140	839
900	1.207	1.159	3.789	3.112	34.699	4.31	187	97.4	27.793	1032.0	32.4	0.387	1469.0	0.046	127	888
945	1.209	1.158	3.826	3.114	34.698	4.31	187	97.3	27.792	1032.2	32.6	0.402	1469.7			933

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	098B	2009/01/29	14:19	-74.9062	-102.3791	945	9	942	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
8	-0.014	-0.014	34.032	27.325	8.84	384	34.032	8.96	390			7	8
86	-1.267	-1.269	34.106	27.439	6.58	286	34.108					5	85
645	1.190	1.157	34.688	27.784	4.30	187	34.689					3	637
945	1.209	1.158	34.698	27.792	4.31	187	34.700	4.36	189			1	932

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	098U	2009/01/29	14:43	-74.9059	-102.3806	945	9	942	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.022	-0.022	1.845	1.844	34.031	10.30	448	27.325	1027.3	74.0	0.001	1447.8	1
25	-0.021	-0.022	1.865	1.846	34.032	8.81	383	27.326	1027.4	73.9	0.018	1448.2	25
50	-0.835	-0.836	1.073	1.035	34.085	7.47	325	27.405	1027.6	66.2	0.036	1444.8	50
75	-1.266	-1.268	0.661	0.605	34.099	6.65	289	27.433	1027.8	63.4	0.052	1443.2	74
100	-1.271	-1.274	0.676	0.600	34.117	6.52	284	27.448	1027.9	61.9	0.068	1443.6	99
125	-1.028	-1.032	0.939	0.845	34.147	6.14	267	27.463	1028.1	60.4	0.083	1445.2	124
150	-0.771	-0.776	1.217	1.104	34.186	5.68	247	27.485	1028.2	58.3	0.098	1446.9	148
175	-0.493	-0.498	1.517	1.385	34.224	5.33	232	27.504	1028.3	56.6	0.112	1448.7	173
200	-0.219	-0.226	1.812	1.662	34.268	5.01	218	27.526	1028.5	54.6	0.126	1450.4	198
225	-0.019	-0.027	2.033	1.864	34.306	4.82	209	27.548	1028.6	52.7	0.139	1451.8	222
250	0.012	0.003	2.084	1.896	34.327	4.86	211	27.563	1028.8	51.2	0.152	1452.4	247
275	0.127	0.117	2.220	2.013	34.357	4.78	208	27.581	1028.9	49.6	0.165	1453.3	272
300	0.331	0.319	2.445	2.219	34.400	4.60	200	27.605	1029.0	47.6	0.177	1454.7	297
325	0.420	0.406	2.554	2.310	34.439	4.60	200	27.631	1029.2	45.1	0.189	1455.6	321
350	0.552	0.537	2.708	2.444	34.479	4.55	198	27.656	1029.3	43.0	0.200	1456.7	346
375	0.690	0.673	2.867	2.584	34.518	4.48	195	27.679	1029.5	41.0	0.210	1457.8	371
400	0.775	0.757	2.973	2.671	34.542	4.44	193	27.693	1029.6	39.8	0.220	1458.6	395
425	0.878	0.859	3.096	2.776	34.570	4.39	191	27.709	1029.7	38.4	0.230	1459.5	420
450	0.959	0.938	3.197	2.858	34.595	4.36	189	27.724	1029.8	37.2	0.240	1460.3	445
475	1.017	0.994	3.275	2.917	34.614	4.34	189	27.736	1030.0	36.2	0.249	1461.0	469
500	1.081	1.056	3.359	2.982	34.637	4.32	188	27.750	1030.1	35.1	0.258	1461.7	494
550	1.150	1.123	3.467	3.053	34.668	4.31	187	27.770	1030.4	33.3	0.275	1462.9	543
600	1.184	1.154	3.540	3.088	34.682	4.30	187	27.779	1030.6	32.7	0.291	1463.9	593
650	1.190	1.156	3.583	3.094	34.687	4.31	187	27.783	1030.8	32.5	0.307	1464.7	642
700	1.191	1.155	3.623	3.096	34.689	4.31	187	27.785	1031.1	32.5	0.324	1465.6	691
750	1.195	1.156	3.664	3.100	34.690	4.31	187	27.786	1031.3	32.6	0.340	1466.4	741
800	1.202	1.160	3.709	3.107	34.693	4.31	187	27.788	1031.5	32.5	0.356	1467.3	790
850	1.205	1.160	3.750	3.110	34.694	4.31	187	27.789	1031.8	32.6	0.372	1468.1	839
900	1.207	1.159	3.789	3.111	34.696	4.32	188	27.790	1032.0	32.6	0.389	1469.0	888
945	1.209	1.158	3.826	3.114	34.698	4.31	187	27.792	1032.2	32.6	0.403	1469.7	933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Potential Temperature (°C)
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Pressure (dbar)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**099D**	2009/01/29	15:47	-74.8306	-102.6259	997	8	993	3	12.6	135	-7.2	979.3

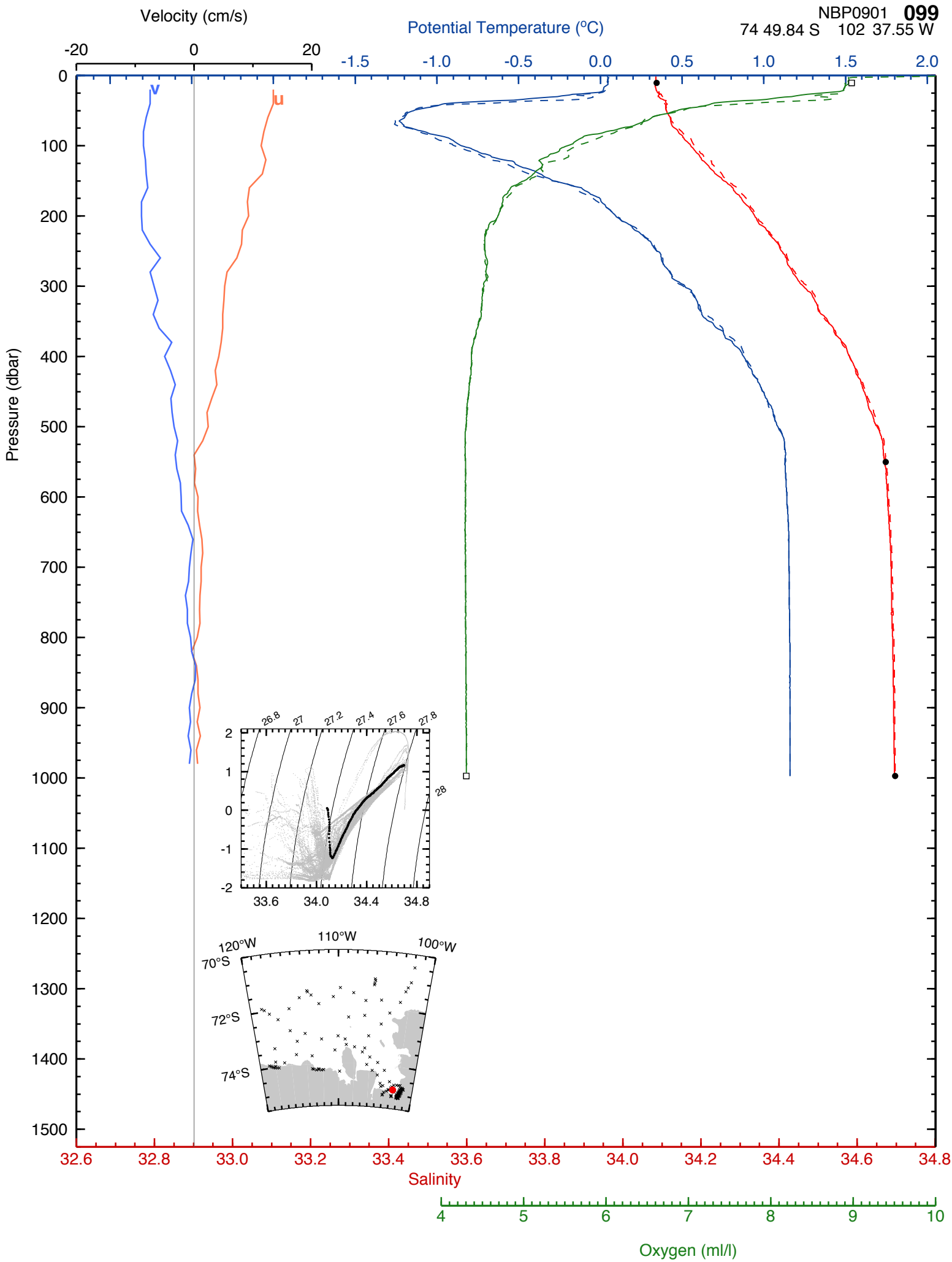
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.050	0.050	1.921	1.920	34.084	8.94	389	82.0	27.364	1027.4	70.3	0.001	1448.2			2
25	-0.068	-0.069	1.821	1.802	34.093	8.61	374	82.9	27.378	1027.5	68.9	0.017	1448.0	0.154	119	25
50	-1.144	-1.145	0.765	0.727	34.111	6.86	298	87.5	27.439	1027.7	63.0	0.034	1443.4	0.152	121	50
75	-1.158	-1.159	0.772	0.716	34.141	6.19	269	90.6	27.463	1027.8	60.5	0.049	1443.8	0.148	125	74
100	-0.848	-0.851	1.103	1.027	34.183	5.53	240	92.7	27.486	1028.0	58.4	0.064	1445.7	0.143	127	99
125	-0.519	-0.523	1.453	1.359	34.228	5.22	227	92.1	27.508	1028.1	56.3	0.078	1447.7	0.147	124	124
150	-0.279	-0.284	1.714	1.601	34.267	5.00	217	95.0	27.529	1028.2	54.4	0.092	1449.3	0.134	127	148
175	0.002	-0.004	2.017	1.885	34.316	4.75	206	94.8	27.554	1028.4	52.1	0.106	1451.1	0.126	133	173
200	0.101	0.093	2.136	1.985	34.341	4.69	204	94.9	27.570	1028.5	50.7	0.118	1452.0	0.129	134	198
225	0.254	0.245	2.310	2.141	34.378	4.55	198	94.8	27.591	1028.7	48.8	0.131	1453.1	0.119	136	222
250	0.357	0.347	2.434	2.246	34.412	4.53	197	95.3	27.612	1028.8	46.8	0.143	1454.0	0.104	131	247
275	0.420	0.409	2.517	2.310	34.435	4.55	198	96.2	27.627	1028.9	45.5	0.154	1454.8	0.094	137	272
300	0.528	0.515	2.646	2.420	34.471	4.52	196	96.8	27.650	1029.1	43.4	0.165	1455.7	0.087	143	297
325	0.611	0.597	2.749	2.504	34.499	4.49	195	96.9	27.668	1029.2	41.8	0.176	1456.5	0.080	140	321
350	0.683	0.668	2.842	2.578	34.524	4.46	194	97.1	27.684	1029.3	40.5	0.186	1457.3	0.083	143	346
375	0.791	0.774	2.970	2.687	34.552	4.41	191	97.2	27.700	1029.5	39.1	0.196	1458.2	0.068	135	371
400	0.894	0.876	3.094	2.793	34.580	4.37	190	97.2	27.716	1029.6	37.7	0.206	1459.2	0.064	138	395
425	0.952	0.932	3.171	2.851	34.602	4.36	190	97.4	27.730	1029.7	36.5	0.215	1459.9	0.054	138	420
450	1.016	0.995	3.256	2.917	34.622	4.33	188	97.4	27.742	1029.9	35.5	0.224	1460.6	0.050	132	445
475	1.074	1.051	3.333	2.976	34.641	4.31	187	97.4	27.753	1030.0	34.6	0.233	1461.3	0.046	146	469
500	1.110	1.086	3.389	3.013	34.654	4.30	187	97.5	27.762	1030.1	34.0	0.242	1461.9	0.042	146	494
550	1.156	1.129	3.474	3.059	34.674	4.30	187	97.5	27.775	1030.4	32.9	0.258	1462.9	0.032	179	543
600	1.171	1.141	3.527	3.075	34.681	4.29	187	97.5	27.780	1030.6	32.6	0.275	1463.8	0.023	168	593
650	1.185	1.152	3.578	3.089	34.687	4.29	186	97.5	27.783	1030.8	32.5	0.291	1464.7	0.013	134	642
700	1.189	1.153	3.621	3.094	34.690	4.29	187	97.5	27.786	1031.1	32.4	0.307	1465.6	0.015	117	691
750	1.194	1.156	3.664	3.099	34.692	4.30	187	97.5	27.787	1031.3	32.4	0.323	1466.4	0.018	146	741
800	1.200	1.158	3.707	3.105	34.694	4.30	187	97.4	27.789	1031.5	32.4	0.340	1467.3	0.011	139	790
850	1.203	1.159	3.748	3.108	34.695	4.30	187	97.4	27.790	1031.8	32.5	0.356	1468.1	0.005	60	839
900	1.207	1.159	3.790	3.112	34.696	4.30	187	97.5	27.791	1032.0	32.6	0.372	1469.0	0.010	124	888
950	1.210	1.159	3.830	3.115	34.697	4.30	187	97.5	27.791	1032.2	32.7	0.388	1469.8	0.014	133	938
997	1.213	1.159	3.869	3.118	34.697	4.30	187	97.4	27.791	1032.5	32.8	0.404	1470.6			984

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	099B	2009/01/29	16:12	-74.8299	-102.6233	997	8	993	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
11	0.045	0.045	34.085	27.365	8.91	387	34.086	8.98	390			5	10
550	1.160	1.133	34.671	27.772	4.29	187	34.674					3	544
997	1.213	1.159	34.697	27.791	4.30	187	34.698	4.30	187			1	984

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	099U	2009/01/29	16:36	-74.8302	-102.6244	997	8	993	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.042	0.042	1.913	1.912	34.084	10.01	435	27.365	1027.4	70.2	0.001	1448.1	1
25	-0.012	-0.013	1.877	1.859	34.090	8.86	385	27.373	1027.5	69.4	0.018	1448.3	25
50	-1.154	-1.155	0.755	0.717	34.111	6.92	301	27.439	1027.7	63.0	0.034	1443.4	50
75	-1.171	-1.173	0.758	0.702	34.133	6.27	272	27.457	1027.8	61.1	0.050	1443.7	74
100	-0.892	-0.895	1.058	0.983	34.173	5.66	246	27.479	1028.0	59.0	0.065	1445.5	99
125	-0.582	-0.586	1.389	1.295	34.213	5.25	228	27.499	1028.1	57.2	0.079	1447.4	124
150	-0.286	-0.291	1.707	1.594	34.259	5.06	220	27.523	1028.2	55.0	0.093	1449.3	148
175	-0.038	-0.044	1.976	1.844	34.304	4.79	208	27.547	1028.4	52.8	0.107	1450.9	173
200	0.107	0.100	2.142	1.992	34.338	4.68	204	27.566	1028.5	51.0	0.120	1452.0	198
225	0.260	0.251	2.315	2.146	34.374	4.53	197	27.587	1028.7	49.1	0.132	1453.2	222
250	0.357	0.347	2.433	2.245	34.407	4.53	197	27.608	1028.8	47.2	0.144	1454.0	247
275	0.421	0.410	2.518	2.311	34.431	4.55	198	27.624	1028.9	45.8	0.156	1454.8	272
300	0.520	0.507	2.637	2.411	34.462	4.53	197	27.644	1029.1	44.0	0.167	1455.7	297
325	0.616	0.602	2.754	2.510	34.497	4.49	195	27.666	1029.2	42.0	0.178	1456.6	321
350	0.711	0.696	2.870	2.607	34.526	4.45	194	27.683	1029.3	40.5	0.188	1457.5	346
375	0.829	0.812	3.008	2.726	34.557	4.40	191	27.701	1029.5	39.0	0.198	1458.4	371
400	0.906	0.887	3.106	2.804	34.581	4.37	190	27.716	1029.6	37.8	0.208	1459.2	395
425	0.953	0.933	3.172	2.852	34.598	4.36	189	27.727	1029.7	36.9	0.217	1459.9	420
450	1.017	0.995	3.256	2.917	34.618	4.33	188	27.739	1029.9	35.9	0.226	1460.6	445
475	1.058	1.035	3.317	2.959	34.631	4.32	188	27.747	1030.0	35.2	0.235	1461.2	469
500	1.114	1.090	3.393	3.017	34.652	4.30	187	27.759	1030.1	34.2	0.243	1461.9	494
550	1.159	1.132	3.477	3.063	34.671	4.29	186	27.772	1030.4	33.2	0.260	1462.9	543
600	1.171	1.141	3.526	3.075	34.678	4.29	187	27.777	1030.6	32.9	0.277	1463.8	593
650	1.185	1.152	3.578	3.089	34.683	4.29	187	27.781	1030.8	32.7	0.293	1464.7	642
700	1.190	1.154	3.622	3.094	34.687	4.29	187	27.784	1031.1	32.6	0.309	1465.6	691
750	1.195	1.156	3.664	3.099	34.688	4.30	187	27.785	1031.3	32.7	0.326	1466.4	741
800	1.200	1.158	3.707	3.105	34.691	4.30	187	27.787	1031.5	32.7	0.342	1467.3	790
850	1.203	1.158	3.748	3.108	34.692	4.30	187	27.788	1031.8	32.7	0.358	1468.1	839
900	1.207	1.159	3.789	3.112	34.694	4.30	187	27.788	1032.0	32.8	0.375	1469.0	888
950	1.210	1.159	3.830	3.115	34.695	4.31	187	27.789	1032.2	32.9	0.391	1469.8	938
997	1.213	1.159	3.869	3.118	34.697	4.30	187	27.791	1032.5	32.8	0.407	1470.6	984


Velocity (cm/s)
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Potential Temperature (°C)
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-1.0
-0.5
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NBP0901 099
74 49.84 S 102 37.55 W
Pressure (dbar)
0
100
200
300
400
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600
700
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1200
1300
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26.8
27
27.2
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2
1
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33.6
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34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
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34.0
34.2
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34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**100D**	2009/01/29	18:43	-74.8471	-103.2853	1090	9	1084	5	14.1	123	-5.8	979.9

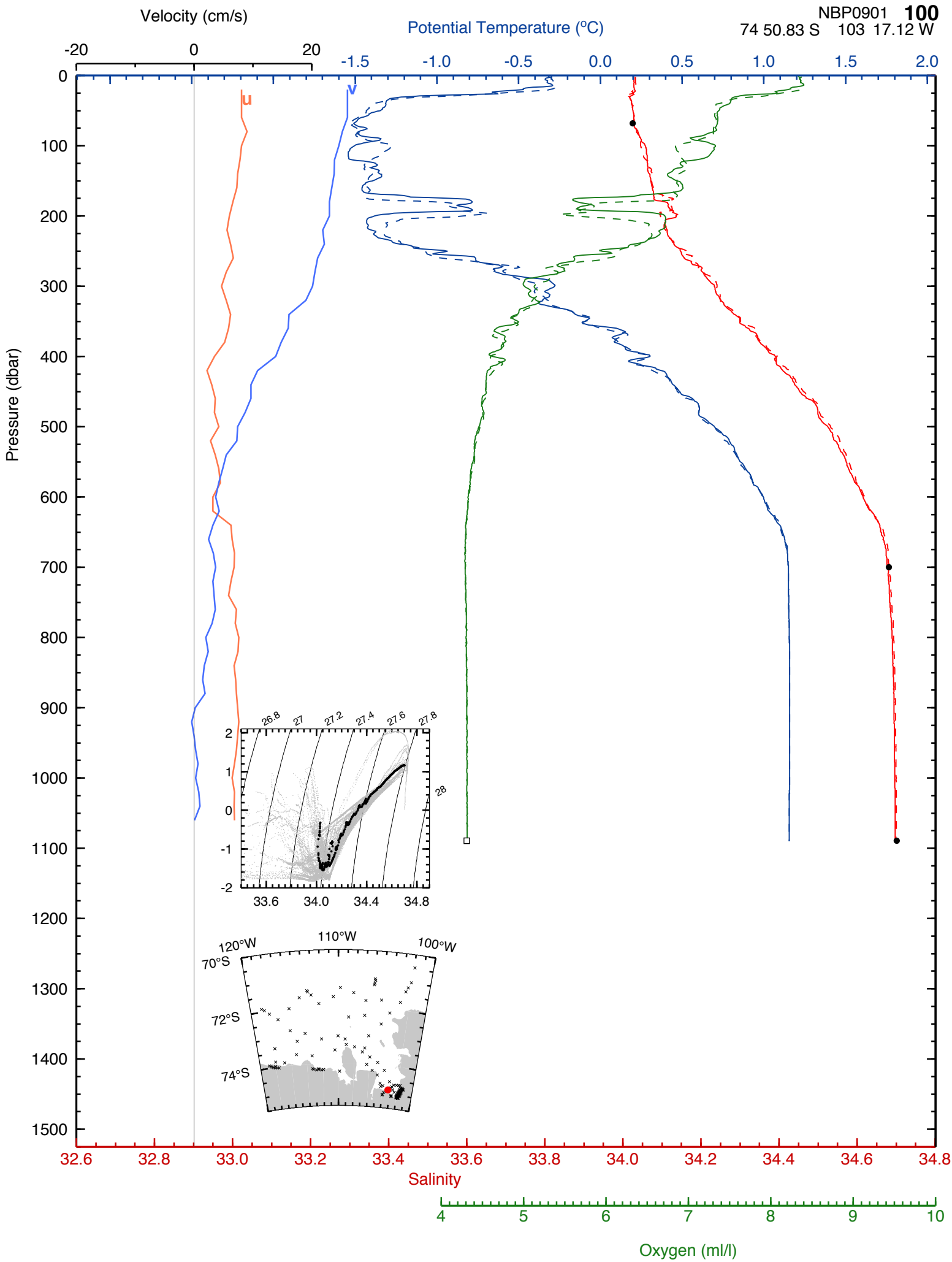
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.316	-0.316	1.553	1.551	34.032	8.38	364	81.4	27.340	1027.3	72.5	0.001	1446.4			2
25	-0.631	-0.632	1.254	1.235	34.026	8.08	351	85.3	27.350	1027.5	71.6	0.018	1445.3	0.273	17	25
50	-1.347	-1.348	0.558	0.520	34.028	7.37	320	93.9	27.377	1027.6	68.8	0.036	1442.3	0.273	17	50
75	-1.430	-1.432	0.494	0.437	34.036	7.33	318	95.5	27.387	1027.7	67.7	0.053	1442.4	0.270	19	74
100	-1.503	-1.505	0.440	0.365	34.046	7.33	319	95.0	27.397	1027.9	66.6	0.069	1442.4	0.260	18	99
125	-1.371	-1.374	0.592	0.498	34.068	6.90	300	96.0	27.411	1028.0	65.2	0.086	1443.5	0.251	18	124
150	-1.393	-1.396	0.589	0.476	34.073	6.87	298	96.1	27.416	1028.1	64.6	0.102	1443.8	0.247	17	148
175	-0.925	-0.930	1.079	0.947	34.127	5.66	246	96.6	27.443	1028.3	62.1	0.118	1446.5	0.241	16	173
200	-1.376	-1.381	0.645	0.494	34.096	6.71	292	96.5	27.434	1028.4	62.6	0.134	1444.7	0.238	15	198
225	-1.381	-1.386	0.660	0.491	34.111	6.66	289	96.5	27.447	1028.5	61.3	0.149	1445.1	0.227	14	222
250	-0.928	-0.935	1.134	0.946	34.158	5.95	259	96.2	27.468	1028.7	59.5	0.164	1447.8	0.226	16	247
275	-0.643	-0.651	1.440	1.233	34.193	5.50	239	95.8	27.485	1028.8	58.0	0.179	1449.5	0.215	16	272
300	-0.270	-0.280	1.835	1.609	34.241	5.01	218	95.9	27.507	1028.9	56.2	0.193	1451.8	0.207	14	297
325	-0.364	-0.375	1.760	1.516	34.254	5.16	224	96.4	27.523	1029.1	54.6	0.207	1451.8	0.196	16	321
350	-0.085	-0.098	2.060	1.797	34.301	4.94	215	96.2	27.547	1029.2	52.6	0.220	1453.5	0.172	21	346
375	0.099	0.084	2.266	1.984	34.348	4.77	207	96.6	27.575	1029.4	50.1	0.233	1454.8	0.164	20	371
400	0.318	0.302	2.507	2.206	34.395	4.63	201	96.6	27.601	1029.5	47.9	0.245	1456.3	0.146	15	395
425	0.422	0.404	2.632	2.312	34.434	4.55	198	96.6	27.627	1029.6	45.6	0.257	1457.2	0.110	12	420
450	0.504	0.484	2.734	2.395	34.464	4.54	197	96.8	27.646	1029.8	43.9	0.268	1458.1	0.102	18	445
475	0.627	0.606	2.879	2.521	34.503	4.50	196	97.1	27.671	1029.9	41.8	0.279	1459.1	0.099	21	469
500	0.720	0.697	2.992	2.615	34.532	4.46	194	97.2	27.689	1030.0	40.3	0.289	1460.0	0.088	27	494
550	0.883	0.857	3.195	2.781	34.578	4.39	191	97.4	27.715	1030.3	38.1	0.309	1461.6	0.066	34	543
600	1.026	0.996	3.378	2.926	34.620	4.33	188	97.4	27.740	1030.6	36.1	0.327	1463.1	0.054	43	593
650	1.146	1.113	3.539	3.050	34.667	4.30	187	97.4	27.771	1030.8	33.6	0.345	1464.5	0.071	64	642
700	1.185	1.149	3.617	3.089	34.682	4.29	186	97.4	27.780	1031.1	33.0	0.361	1465.5	0.077	63	691
750	1.191	1.152	3.660	3.096	34.689	4.30	187	97.5	27.785	1031.3	32.6	0.378	1466.4	0.068	60	741
800	1.198	1.156	3.705	3.102	34.693	4.30	187	97.5	27.788	1031.5	32.5	0.394	1467.3	0.078	71	790
850	1.202	1.157	3.747	3.107	34.696	4.31	187	97.5	27.791	1031.8	32.4	0.410	1468.1	0.070	76	839
900	1.206	1.158	3.788	3.111	34.698	4.31	187	97.5	27.792	1032.0	32.4	0.426	1469.0	0.074	81	888
950	1.208	1.157	3.829	3.114	34.699	4.31	187	97.5	27.793	1032.2	32.5	0.442	1469.8	0.074	90	938
1000	1.210	1.156	3.869	3.116	34.700	4.31	187	97.4	27.794	1032.5	32.6	0.459	1470.6	0.068	85	987
1090	1.215	1.155	3.941	3.120	34.699	4.32	187	97.4	27.793	1032.9	33.0	0.488	1472.1			1076

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	100B	2009/01/29	19:09	-74.8476	-103.2870	1089	9	1084	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
11	-0.297	-0.298	34.030	27.337	8.36	363						12	11
68	-1.542	-1.543	34.028	27.383	7.34	319	34.026					9	68
192	-0.818	-0.823	34.122	27.435	5.68	247						5	190
700	1.185	1.149	34.680	27.778	4.29	186	34.681					3	691
1089	1.215	1.155	34.699	27.793	4.31	187	34.701	4.31	187			1	1075

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	100U	2009/01/29	19:36	-74.8473	-103.2859	1089	9	1084	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.321	-0.321	1.546	1.545	34.027	8.34	362	27.336	1027.3	72.9	0.001	1446.4	1
25	-0.611	-0.612	1.274	1.255	34.026	8.12	353	27.348	1027.5	71.7	0.018	1445.4	25
50	-1.432	-1.433	0.472	0.435	34.026	7.33	319	27.378	1027.6	68.6	0.036	1441.9	50
75	-1.491	-1.492	0.432	0.376	34.031	7.31	318	27.385	1027.7	67.9	0.053	1442.1	74
100	-1.270	-1.273	0.673	0.598	34.058	6.85	298	27.399	1027.9	66.5	0.069	1443.6	99
125	-1.431	-1.434	0.532	0.438	34.063	6.97	303	27.409	1028.0	65.4	0.086	1443.2	124
150	-1.414	-1.418	0.568	0.455	34.071	6.86	298	27.415	1028.1	64.6	0.102	1443.7	148
175	-1.426	-1.430	0.576	0.444	34.080	6.85	298	27.422	1028.3	63.8	0.118	1444.1	173
200	-0.835	-0.841	1.189	1.038	34.135	5.61	244	27.446	1028.4	61.8	0.134	1447.3	198
225	-1.311	-1.317	0.730	0.560	34.114	6.55	285	27.447	1028.5	61.4	0.149	1445.5	222
250	-1.068	-1.075	0.994	0.806	34.148	6.16	268	27.465	1028.7	59.6	0.164	1447.1	247
275	-0.532	-0.541	1.552	1.345	34.203	5.28	229	27.488	1028.8	57.8	0.179	1450.1	272
300	-0.366	-0.377	1.738	1.512	34.235	5.13	223	27.507	1028.9	56.2	0.193	1451.3	297
325	-0.292	-0.303	1.833	1.588	34.258	5.08	221	27.523	1029.1	54.7	0.207	1452.1	321
350	-0.082	-0.095	2.063	1.800	34.299	4.86	211	27.545	1029.2	52.7	0.221	1453.5	346
375	0.109	0.095	2.277	1.994	34.346	4.72	205	27.573	1029.4	50.3	0.234	1454.9	371
400	0.308	0.291	2.496	2.195	34.391	4.60	200	27.599	1029.5	48.1	0.246	1456.2	395
425	0.384	0.366	2.593	2.273	34.420	4.60	200	27.618	1029.6	46.3	0.258	1457.0	420
450	0.491	0.472	2.721	2.382	34.453	4.54	197	27.639	1029.8	44.6	0.269	1458.0	445
475	0.626	0.604	2.877	2.519	34.499	4.50	196	27.668	1029.9	42.1	0.280	1459.1	469
500	0.714	0.691	2.985	2.609	34.525	4.47	194	27.683	1030.0	40.8	0.290	1459.9	494
550	0.877	0.851	3.189	2.775	34.572	4.40	191	27.711	1030.3	38.5	0.310	1461.5	543
600	1.027	0.997	3.379	2.927	34.615	4.33	188	27.736	1030.6	36.4	0.329	1463.1	593
650	1.140	1.107	3.533	3.043	34.661	4.30	187	27.766	1030.8	34.0	0.347	1464.5	642
700	1.185	1.149	3.616	3.089	34.679	4.29	187	27.777	1031.1	33.2	0.363	1465.5	691
750	1.191	1.152	3.659	3.095	34.684	4.30	187	27.781	1031.3	33.0	0.380	1466.4	741
800	1.198	1.156	3.705	3.102	34.690	4.31	187	27.786	1031.5	32.7	0.396	1467.2	790
850	1.202	1.157	3.747	3.107	34.693	4.31	187	27.788	1031.8	32.7	0.413	1468.1	839
900	1.206	1.158	3.788	3.111	34.694	4.31	187	27.789	1032.0	32.7	0.429	1469.0	888
950	1.209	1.158	3.829	3.113	34.695	4.32	188	27.790	1032.2	32.8	0.445	1469.8	938
1000	1.211	1.157	3.869	3.115	34.696	4.32	188	27.791	1032.5	32.9	0.462	1470.6	987
1090	1.215	1.155	3.941	3.120	34.699	4.32	187	27.793	1032.9	33.0	0.491	1472.1	1076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Potential Temperature (°C)
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Pressure (dbar)
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120°W
110°W
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34.8
Salinity
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**101D**	2009/01/30	13:41	-74.7577	-104.2704	1224	7	1215	6	4.8	156	-6.6	993.2

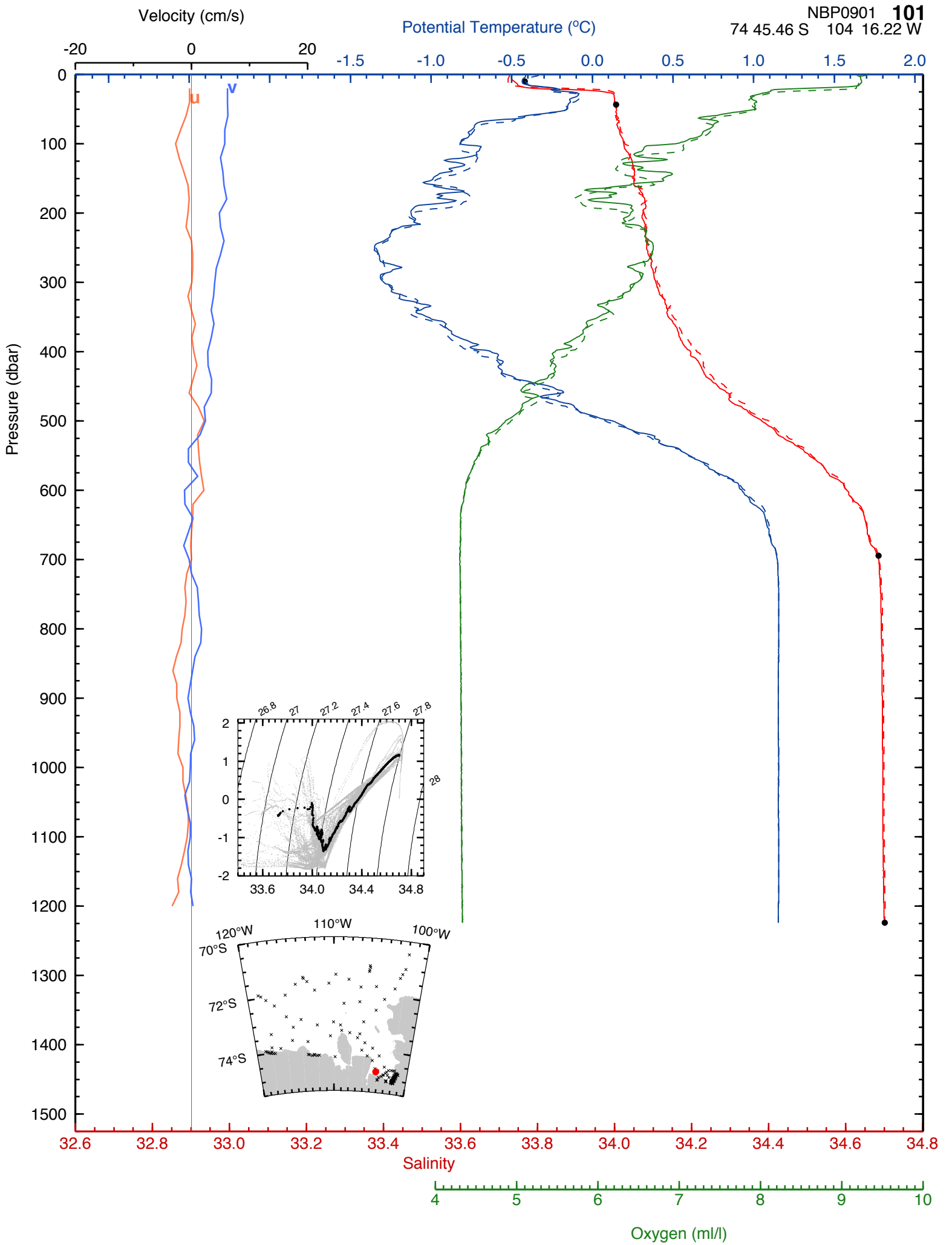
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.416	-0.416	1.435	1.434	33.727	9.19	399	81.0	27.098	1027.1	95.5	0.001	1445.5			1
25	-0.133	-0.134	1.751	1.732	33.996	8.11	352	84.0	27.302	1027.4	76.1	0.023	1447.6	0.062	357	25
50	-0.158	-0.159	1.746	1.708	34.005	7.93	345	84.4	27.311	1027.5	75.2	0.042	1447.9	0.063	355	50
75	-0.729	-0.732	1.193	1.136	34.014	7.41	322	90.1	27.344	1027.7	71.9	0.060	1445.7	0.061	345	74
100	-0.817	-0.820	1.124	1.049	34.027	6.96	302	92.3	27.358	1027.8	70.5	0.078	1445.7	0.063	335	99
125	-0.900	-0.903	1.062	0.967	34.041	6.67	290	93.6	27.372	1028.0	69.0	0.095	1445.7	0.054	339	124
150	-0.983	-0.987	0.997	0.884	34.048	6.80	295	94.3	27.381	1028.1	68.0	0.113	1445.7	0.056	350	148
175	-0.925	-0.930	1.076	0.944	34.072	6.14	267	94.7	27.398	1028.2	66.3	0.129	1446.4	0.059	355	173
200	-1.119	-1.124	0.901	0.750	34.077	6.40	278	95.4	27.410	1028.4	65.1	0.146	1445.9	0.050	353	198
225	-1.233	-1.238	0.806	0.637	34.083	6.60	287	95.5	27.419	1028.5	64.1	0.162	1445.8	0.052	307	222
250	-1.345	-1.351	0.714	0.525	34.088	6.68	290	95.8	27.426	1028.6	63.1	0.178	1445.7	0.054	1	247
275	-1.224	-1.231	0.854	0.647	34.105	6.43	280	95.9	27.436	1028.8	62.2	0.194	1446.7	0.046	3	272
300	-1.286	-1.294	0.811	0.585	34.112	6.48	282	96.2	27.444	1028.9	61.3	0.209	1446.8	0.041	2	297
325	-1.168	-1.177	0.949	0.704	34.132	6.22	270	96.3	27.456	1029.0	60.1	0.224	1447.8	0.038	329	321
350	-1.010	-1.020	1.127	0.864	34.153	6.01	261	96.2	27.468	1029.1	59.1	0.239	1449.0	0.036	3	346
375	-0.858	-0.869	1.300	1.018	34.178	5.80	252	96.3	27.482	1029.3	57.8	0.254	1450.2	0.037	6	371
400	-0.616	-0.629	1.563	1.261	34.214	5.47	238	96.3	27.501	1029.4	56.2	0.268	1451.7	0.029	7	395
425	-0.558	-0.572	1.641	1.321	34.236	5.46	237	96.5	27.517	1029.5	54.7	0.282	1452.5	0.030	17	420
450	-0.247	-0.263	1.974	1.635	34.287	5.09	221	96.6	27.544	1029.7	52.6	0.295	1454.4	0.035	86	445
475	-0.130	-0.147	2.112	1.755	34.338	5.08	221	96.9	27.579	1029.8	49.4	0.308	1455.4	0.030	201	469
500	0.145	0.125	2.410	2.033	34.400	4.86	211	97.1	27.615	1030.0	46.3	0.320	1457.2	0.031	38	494
550	0.628	0.603	2.936	2.522	34.512	4.52	197	97.1	27.678	1030.3	41.1	0.342	1460.3	0.013	112	543
600	0.955	0.926	3.306	2.854	34.603	4.36	190	97.4	27.731	1030.6	36.8	0.361	1462.8	0.022	97	593
650	1.114	1.082	3.506	3.017	34.654	4.31	187	97.4	27.762	1030.8	34.4	0.379	1464.4	0.004	49	642
700	1.182	1.146	3.614	3.087	34.687	4.30	187	97.5	27.784	1031.1	32.6	0.396	1465.5	0.008	182	691
750	1.193	1.155	3.663	3.098	34.695	4.31	187	97.4	27.790	1031.3	32.2	0.412	1466.4	0.015	313	741
800	1.196	1.154	3.703	3.101	34.696	4.31	187	97.4	27.791	1031.5	32.3	0.428	1467.2	0.020	318	790
850	1.198	1.153	3.743	3.103	34.698	4.31	187	97.4	27.792	1031.8	32.3	0.444	1468.1	0.027	284	839
900	1.201	1.153	3.784	3.106	34.698	4.31	187	97.4	27.793	1032.0	32.4	0.460	1468.9	0.025	262	888
950	1.204	1.153	3.825	3.109	34.699	4.32	188	97.4	27.793	1032.2	32.5	0.477	1469.8	0.020	279	938
1000	1.208	1.154	3.866	3.113	34.699	4.32	188	97.4	27.794	1032.5	32.6	0.493	1470.6	0.020	266	987
1200	1.220	1.153	4.029	3.125	34.703	4.33	188	97.4	27.796	1033.4	33.0	0.559	1474.0	0.024	269	1184
1224	1.221	1.152	4.048	3.126	34.701	4.33	188	97.4	27.795	1033.5	33.2	0.567	1474.4			1208

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	101B	2009/01/30	14:10	-74.7578	-104.2708	1224	7	1215	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.415	-0.415	33.742	27.110	9.22	401		33.767					11	10
44	-0.138	-0.139	34.001	27.306	7.90	344		34.004					9	43
198	-1.048	-1.053	34.076	27.406	6.24	271							7	195
264	-1.318	-1.324	34.093	27.429	6.65	289							5	261
695	1.183	1.147	34.686	27.783	4.30	187		34.685					3	686
1224	1.221	1.152	34.702	27.795	4.34	188		34.701					1	1208

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	101U	2009/01/30	14:39	-74.7577	-104.2703	1224	7	1215	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.334	-0.334	1.517	1.516	33.734	9.32	405	27.100	1027.1	95.3	0.001	1445.9	1
25	-0.243	-0.244	1.639	1.621	33.974	8.24	358	27.290	1027.4	77.3	0.023	1447.0	25
50	-0.155	-0.157	1.748	1.710	34.005	7.95	345	27.311	1027.5	75.2	0.042	1447.9	50
75	-0.715	-0.718	1.206	1.150	34.008	7.43	323	27.338	1027.7	72.5	0.060	1445.7	74
100	-0.817	-0.820	1.125	1.049	34.024	7.07	307	27.355	1027.8	70.7	0.078	1445.7	99
125	-0.718	-0.721	1.244	1.150	34.046	6.26	272	27.369	1028.0	69.4	0.096	1446.6	124
150	-0.944	-0.948	1.037	0.924	34.050	6.59	286	27.381	1028.1	68.0	0.113	1445.9	148
175	-0.757	-0.762	1.244	1.112	34.074	5.78	251	27.393	1028.2	66.9	0.130	1447.2	173
200	-1.113	-1.119	0.907	0.756	34.074	6.37	277	27.407	1028.4	65.3	0.146	1446.0	198
225	-1.239	-1.245	0.800	0.630	34.078	6.59	286	27.415	1028.5	64.4	0.163	1445.8	222
250	-1.336	-1.343	0.722	0.533	34.083	6.67	290	27.422	1028.6	63.5	0.179	1445.7	247
275	-1.284	-1.291	0.793	0.586	34.095	6.58	286	27.430	1028.7	62.7	0.194	1446.4	272
300	-1.272	-1.279	0.825	0.600	34.107	6.48	282	27.440	1028.9	61.7	0.210	1446.9	297
325	-1.080	-1.089	1.037	0.793	34.129	6.15	267	27.451	1029.0	60.7	0.225	1448.2	321
350	-1.081	-1.090	1.056	0.792	34.140	6.16	268	27.460	1029.1	59.7	0.240	1448.6	346
375	-0.885	-0.896	1.272	0.990	34.167	5.84	254	27.474	1029.3	58.5	0.255	1450.0	371
400	-0.693	-0.706	1.484	1.183	34.197	5.61	244	27.491	1029.4	57.1	0.270	1451.4	395
425	-0.547	-0.561	1.651	1.331	34.227	5.42	235	27.509	1029.5	55.5	0.284	1452.5	420
450	-0.333	-0.349	1.886	1.547	34.269	5.22	227	27.533	1029.7	53.5	0.297	1454.0	445
475	-0.233	-0.251	2.007	1.649	34.309	5.22	227	27.561	1029.8	50.9	0.310	1454.9	469
500	0.100	0.080	2.364	1.987	34.382	4.93	214	27.603	1030.0	47.4	0.323	1456.9	494
550	0.620	0.596	2.929	2.514	34.506	4.54	197	27.674	1030.3	41.6	0.345	1460.3	543
600	0.973	0.944	3.325	2.873	34.603	4.37	190	27.730	1030.6	36.9	0.364	1462.8	593
650	1.127	1.094	3.519	3.029	34.655	4.31	187	27.762	1030.8	34.4	0.382	1464.4	642
700	1.184	1.149	3.616	3.089	34.686	4.30	187	27.783	1031.1	32.7	0.399	1465.5	691
750	1.194	1.155	3.663	3.098	34.691	4.31	187	27.787	1031.3	32.5	0.415	1466.4	741
800	1.196	1.154	3.703	3.101	34.693	4.31	187	27.788	1031.5	32.5	0.432	1467.2	790
850	1.199	1.154	3.743	3.103	34.694	4.32	188	27.789	1031.8	32.5	0.448	1468.1	839
900	1.201	1.153	3.784	3.106	34.695	4.32	188	27.790	1032.0	32.6	0.464	1468.9	888
950	1.204	1.153	3.825	3.109	34.695	4.32	188	27.790	1032.2	32.8	0.480	1469.8	938
1000	1.208	1.154	3.866	3.113	34.696	4.32	188	27.791	1032.5	32.9	0.497	1470.6	987
1200	1.220	1.153	4.029	3.125	34.699	4.34	188	27.793	1033.4	33.2	0.563	1474.0	1184
1224	1.221	1.152	4.048	3.126	34.701	4.33	188	27.795	1033.5	33.2	0.571	1474.4	1208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Potential Temperature (°C)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**102D**	2009/01/30	20:31	-74.5507	-103.1758	1079	11	1076	3	2.8	210	-4.4	994.6

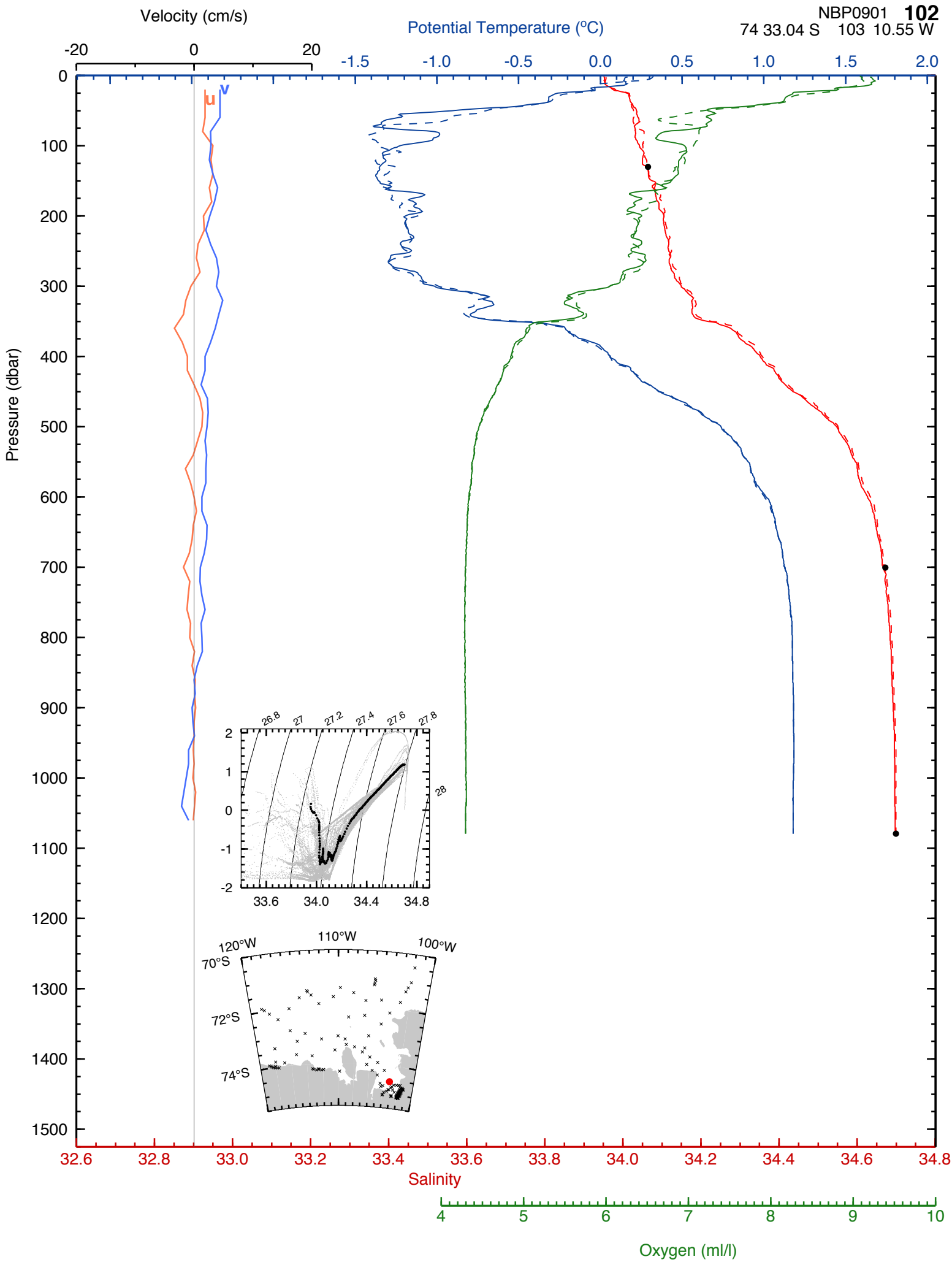
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.167	0.167	2.031	2.029	33.957	9.21	400	73.8	27.256	1027.3	80.6	0.002	1448.5			2
25	-0.260	-0.261	1.625	1.606	34.015	8.26	359	80.5	27.324	1027.4	74.0	0.020	1447.0	0.048	23	25
50	-0.907	-0.909	0.997	0.959	34.027	7.24	315	87.8	27.362	1027.6	70.3	0.038	1444.4	0.048	23	50
75	-1.318	-1.320	0.605	0.549	34.036	7.13	310	92.3	27.383	1027.7	68.1	0.055	1442.9	0.037	27	74
100	-1.223	-1.226	0.720	0.645	34.051	6.95	302	93.2	27.392	1027.9	67.1	0.072	1443.8	0.042	47	99
125	-1.329	-1.332	0.634	0.539	34.062	6.88	299	95.3	27.404	1028.0	65.8	0.089	1443.7	0.040	48	124
150	-1.351	-1.355	0.631	0.518	34.076	6.79	295	96.3	27.417	1028.1	64.5	0.105	1444.0	0.046	40	148
175	-1.143	-1.147	0.860	0.728	34.094	6.43	280	95.7	27.424	1028.3	63.8	0.121	1445.4	0.047	38	173
200	-1.188	-1.194	0.833	0.683	34.104	6.43	280	95.9	27.434	1028.4	62.7	0.137	1445.6	0.033	32	198
225	-1.166	-1.172	0.875	0.706	34.114	6.34	276	95.7	27.441	1028.5	61.9	0.153	1446.2	0.026	37	222
250	-1.152	-1.158	0.909	0.720	34.124	6.32	275	95.6	27.449	1028.6	61.1	0.168	1446.7	0.032	11	247
275	-1.210	-1.217	0.870	0.663	34.134	6.30	274	96.1	27.459	1028.8	60.0	0.183	1446.8	0.041	10	272
300	-1.007	-1.016	1.093	0.867	34.156	6.05	263	96.0	27.470	1028.9	59.1	0.198	1448.2	0.039	294	297
325	-0.645	-0.655	1.476	1.231	34.188	5.50	239	95.7	27.482	1029.0	58.2	0.213	1450.3	0.051	344	321
350	-0.537	-0.548	1.605	1.342	34.228	5.26	229	96.3	27.510	1029.2	55.6	0.227	1451.3	0.047	331	346
375	-0.101	-0.115	2.065	1.782	34.314	4.97	216	96.2	27.558	1029.3	51.4	0.240	1453.9	0.041	321	371
400	0.076	0.061	2.263	1.962	34.357	4.86	211	96.5	27.584	1029.5	49.2	0.253	1455.2	0.025	329	395
425	0.229	0.212	2.437	2.117	34.398	4.74	206	96.4	27.609	1029.6	47.1	0.265	1456.3	0.022	330	420
450	0.377	0.358	2.606	2.267	34.440	4.66	202	96.6	27.635	1029.8	44.8	0.276	1457.5	0.015	6	445
475	0.594	0.573	2.845	2.488	34.504	4.53	197	97.0	27.674	1029.9	41.5	0.287	1458.9	0.026	27	469
500	0.760	0.737	3.033	2.657	34.551	4.46	194	97.2	27.701	1030.1	39.1	0.297	1460.2	0.027	31	494
550	0.930	0.904	3.244	2.830	34.601	4.37	190	97.2	27.731	1030.3	36.7	0.316	1461.8	0.022	352	543
600	1.043	1.014	3.396	2.944	34.634	4.34	188	97.2	27.751	1030.6	35.2	0.334	1463.2	0.016	125	593
650	1.115	1.082	3.506	3.017	34.656	4.31	187	97.3	27.763	1030.8	34.2	0.351	1464.4	0.022	357	642
700	1.163	1.127	3.593	3.066	34.670	4.29	187	97.3	27.772	1031.1	33.6	0.368	1465.4	0.020	316	691
750	1.198	1.159	3.667	3.102	34.682	4.29	186	97.3	27.779	1031.3	33.1	0.385	1466.4	0.016	323	741
800	1.215	1.173	3.722	3.120	34.689	4.29	186	97.4	27.784	1031.5	33.0	0.401	1467.3	0.014	333	790
850	1.222	1.177	3.766	3.126	34.692	4.29	186	97.4	27.786	1031.8	32.9	0.418	1468.2	0.006	316	839
900	1.228	1.180	3.811	3.133	34.696	4.30	187	97.3	27.789	1032.0	32.8	0.434	1469.0	0.003	73	888
950	1.235	1.184	3.855	3.140	34.699	4.30	187	97.3	27.791	1032.2	32.7	0.451	1469.9	0.001	20	938
1000	1.235	1.181	3.893	3.140	34.700	4.30	187	97.3	27.792	1032.5	32.8	0.467	1470.7	0.010	183	987
1079	1.237	1.178	3.955	3.142	34.699	4.29	187	97.1	27.791	1032.8	33.1	0.493	1472.1			1065

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	102B	2009/01/30	20:58	-74.5509	-103.1753	1079	11	1076	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
130	-1.240	-1.243	34.063	27.403	6.83	297	34.065					6	128
700	1.169	1.133	34.670	27.771	4.29	187	34.672					4	692
1079	1.237	1.178	34.699	27.791	4.29	187	34.699					2	1065

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	102U	2009/01/30	21:20	-74.5511	-103.1752	1079	11	1076	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.324	0.324	2.187	2.186	33.952	9.08	395	27.243	1027.2	81.7	0.001	1449.2	1
25	-0.164	-0.165	1.720	1.701	34.010	8.57	373	27.315	1027.4	74.9	0.020	1447.5	25
50	-0.698	-0.700	1.206	1.169	34.035	7.18	312	27.359	1027.6	70.6	0.038	1445.4	50
75	-1.324	-1.325	0.600	0.543	34.031	7.14	311	27.379	1027.7	68.5	0.055	1442.9	74
100	-1.362	-1.365	0.580	0.505	34.043	7.06	307	27.390	1027.9	67.3	0.072	1443.1	99
125	-1.364	-1.367	0.598	0.504	34.051	6.95	302	27.397	1028.0	66.5	0.089	1443.5	124
150	-1.301	-1.304	0.682	0.569	34.076	6.74	293	27.415	1028.1	64.7	0.106	1444.3	148
175	-1.274	-1.279	0.727	0.595	34.086	6.62	288	27.422	1028.3	63.9	0.122	1444.8	173
200	-1.113	-1.119	0.908	0.758	34.105	6.26	272	27.432	1028.4	62.9	0.138	1446.0	198
225	-1.169	-1.175	0.872	0.703	34.110	6.35	276	27.438	1028.5	62.2	0.153	1446.2	222
250	-1.175	-1.181	0.885	0.697	34.118	6.36	276	27.445	1028.6	61.5	0.169	1446.5	247
275	-1.256	-1.263	0.823	0.616	34.123	6.42	279	27.452	1028.8	60.6	0.184	1446.6	272
300	-0.983	-0.991	1.117	0.891	34.149	6.04	263	27.464	1028.9	59.7	0.199	1448.3	297
325	-0.761	-0.771	1.359	1.114	34.178	5.64	245	27.478	1029.0	58.5	0.214	1449.8	321
350	-0.458	-0.470	1.683	1.419	34.219	5.43	236	27.499	1029.2	56.7	0.228	1451.7	346
375	-0.126	-0.140	2.039	1.756	34.301	5.00	217	27.549	1029.3	52.3	0.242	1453.7	371
400	0.072	0.057	2.259	1.958	34.352	4.84	211	27.580	1029.5	49.6	0.254	1455.1	395
425	0.234	0.216	2.441	2.121	34.394	4.74	206	27.606	1029.6	47.4	0.266	1456.3	420
450	0.382	0.363	2.611	2.272	34.436	4.66	202	27.631	1029.8	45.2	0.278	1457.5	445
475	0.591	0.570	2.842	2.484	34.497	4.55	198	27.668	1029.9	42.0	0.289	1458.9	469
500	0.763	0.740	3.036	2.659	34.547	4.46	194	27.698	1030.1	39.4	0.299	1460.2	494
550	0.931	0.904	3.244	2.830	34.596	4.38	190	27.727	1030.3	37.1	0.318	1461.8	543
600	1.034	1.005	3.387	2.935	34.627	4.34	189	27.745	1030.6	35.7	0.336	1463.1	593
650	1.113	1.081	3.505	3.016	34.651	4.31	187	27.760	1030.8	34.6	0.354	1464.3	642
700	1.165	1.129	3.596	3.069	34.669	4.30	187	27.770	1031.1	33.8	0.371	1465.4	691
750	1.196	1.157	3.665	3.100	34.678	4.29	186	27.776	1031.3	33.5	0.388	1466.4	741
800	1.215	1.173	3.721	3.119	34.685	4.28	186	27.780	1031.5	33.3	0.404	1467.3	790
850	1.222	1.177	3.766	3.126	34.689	4.29	186	27.783	1031.8	33.2	0.421	1468.2	839
900	1.228	1.180	3.811	3.133	34.693	4.30	187	27.786	1032.0	33.0	0.438	1469.0	888
950	1.234	1.183	3.855	3.139	34.696	4.30	187	27.788	1032.2	33.0	0.454	1469.9	938
1000	1.235	1.181	3.893	3.140	34.697	4.30	187	27.789	1032.5	33.1	0.471	1470.7	987
1079	1.237	1.178	3.955	3.142	34.699	4.29	187	27.791	1032.8	33.1	0.497	1472.1	1065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Velocity (cm/s)
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0
20
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Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**103D**	2009/01/31	03:17	-74.6404	-104.3949	1516	9	1504	4	5.3	237	-5.9	995.2

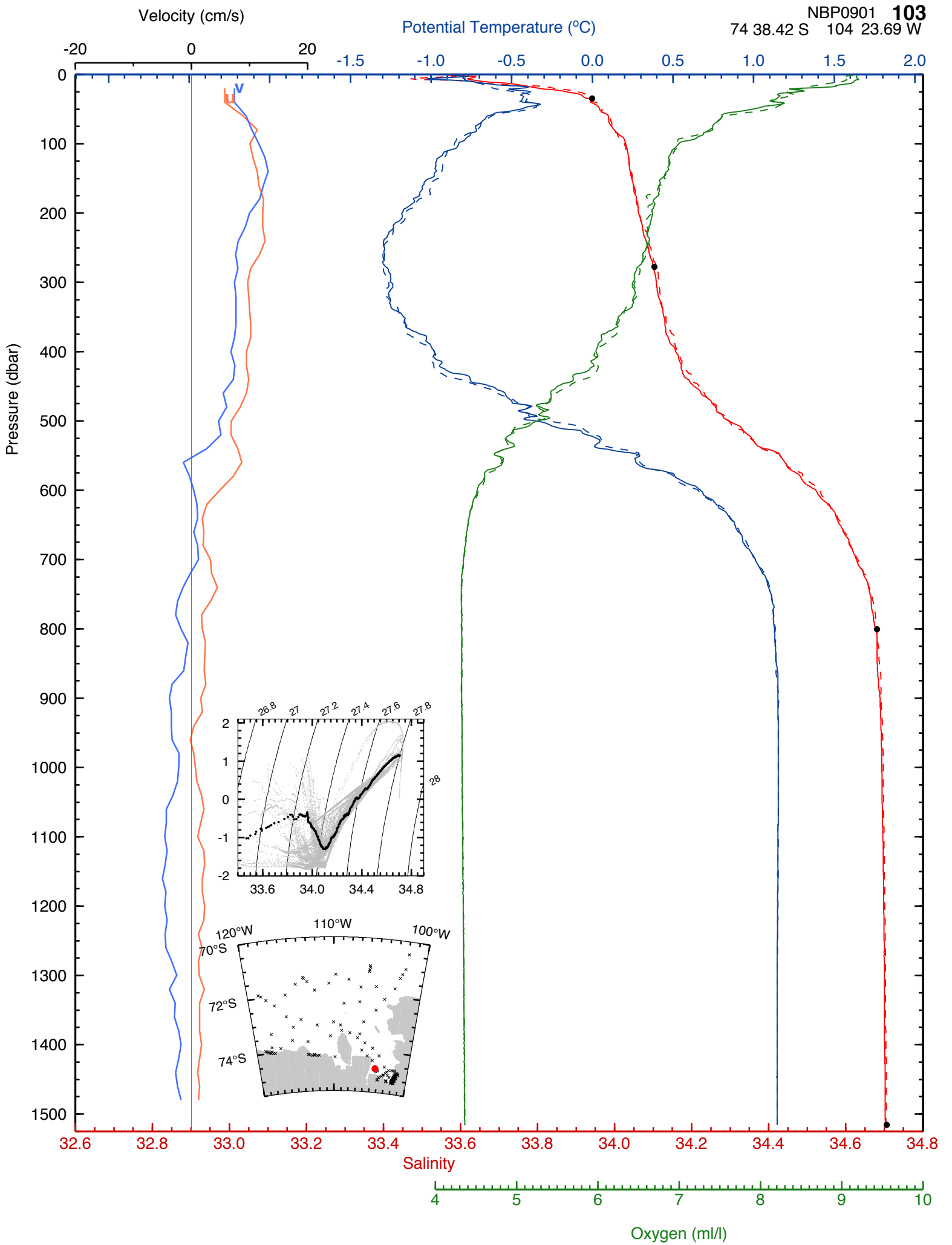
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.767	-0.767	1.075	1.074	33.585	9.18	399	82.5	26.998	1027.0	104.9	0.001	1443.7			1
25	-0.385	-0.386	1.493	1.474	33.904	8.45	367	85.5	27.240	1027.4	81.9	0.024	1446.3	0.093	38	25
50	-0.446	-0.448	1.454	1.417	33.967	7.90	343	85.8	27.293	1027.5	76.8	0.044	1446.5	0.110	40	50
75	-0.722	-0.724	1.199	1.143	33.993	7.41	322	89.6	27.327	1027.7	73.5	0.063	1445.7	0.147	46	74
100	-0.826	-0.829	1.116	1.040	34.026	7.00	304	91.8	27.357	1027.8	70.6	0.081	1445.6	0.154	41	99
125	-0.964	-0.967	0.997	0.903	34.037	6.88	299	93.5	27.372	1028.0	69.0	0.098	1445.4	0.167	40	124
150	-1.006	-1.010	0.975	0.862	34.046	6.78	295	94.2	27.380	1028.1	68.1	0.115	1445.6	0.172	42	148
175	-1.069	-1.073	0.931	0.799	34.056	6.74	293	94.6	27.391	1028.2	67.0	0.132	1445.7	0.170	45	173
200	-1.175	-1.180	0.845	0.694	34.066	6.67	290	94.7	27.403	1028.4	65.7	0.149	1445.7	0.160	50	198
225	-1.243	-1.249	0.796	0.627	34.080	6.62	288	95.3	27.416	1028.5	64.2	0.165	1445.8	0.154	53	222
250	-1.284	-1.290	0.775	0.586	34.094	6.59	287	95.7	27.429	1028.6	62.9	0.181	1446.0	0.147	57	247
275	-1.285	-1.292	0.794	0.587	34.107	6.52	283	96.1	27.440	1028.8	61.7	0.197	1446.4	0.134	54	272
300	-1.240	-1.248	0.857	0.632	34.115	6.43	280	96.2	27.445	1028.9	61.2	0.212	1447.0	0.123	53	297
325	-1.243	-1.252	0.874	0.629	34.122	6.43	280	96.3	27.451	1029.0	60.5	0.227	1447.4	0.125	52	321
350	-1.159	-1.169	0.977	0.713	34.133	6.25	272	96.5	27.457	1029.1	59.9	0.242	1448.3	0.127	53	346
375	-1.051	-1.062	1.105	0.822	34.151	6.05	263	96.6	27.468	1029.3	58.9	0.257	1449.2	0.127	54	371
400	-0.968	-0.980	1.208	0.907	34.165	5.98	260	96.5	27.476	1029.4	58.2	0.272	1450.0	0.119	54	395
425	-0.901	-0.914	1.294	0.974	34.184	5.90	256	96.2	27.489	1029.5	56.9	0.286	1450.8	0.121	52	420
450	-0.615	-0.629	1.602	1.263	34.221	5.50	239	96.4	27.507	1029.7	55.5	0.300	1452.6	0.119	55	445
475	-0.459	-0.475	1.778	1.421	34.256	5.31	231	96.5	27.529	1029.8	53.6	0.314	1453.8	0.107	57	469
500	-0.333	-0.351	1.925	1.549	34.296	5.25	228	96.8	27.555	1029.9	51.3	0.327	1454.8	0.089	55	494
550	0.316	0.293	2.620	2.206	34.430	4.75	207	97.0	27.630	1030.2	45.2	0.352	1458.8	0.085	77	543
600	0.697	0.669	3.044	2.592	34.532	4.51	196	97.3	27.690	1030.5	40.3	0.373	1461.5	0.057	88	593
650	0.916	0.884	3.304	2.814	34.589	4.40	191	97.4	27.722	1030.8	37.7	0.392	1463.4	0.022	62	642
700	1.045	1.010	3.473	2.946	34.632	4.35	189	97.3	27.749	1031.0	35.6	0.411	1464.8	0.030	66	691
750	1.147	1.108	3.615	3.050	34.668	4.32	188	97.4	27.771	1031.3	33.8	0.428	1466.2	0.047	109	741
800	1.170	1.128	3.676	3.074	34.681	4.33	188	97.5	27.780	1031.5	33.2	0.445	1467.1	0.029	141	790
850	1.185	1.141	3.730	3.090	34.688	4.32	188	97.3	27.785	1031.8	32.9	0.461	1468.0	0.025	113	839
900	1.197	1.149	3.779	3.102	34.692	4.33	188	97.4	27.788	1032.0	32.8	0.478	1468.9	0.041	149	888
950	1.203	1.152	3.823	3.107	34.696	4.33	188	97.4	27.791	1032.2	32.7	0.494	1469.8	0.036	171	938
1000	1.207	1.153	3.865	3.112	34.697	4.33	188	97.4	27.792	1032.5	32.8	0.510	1470.6	0.022	167	987
1200	1.216	1.149	4.025	3.121	34.702	4.34	189	97.4	27.796	1033.4	33.0	0.576	1474.0	0.049	156	1184
1400	1.226	1.145	4.185	3.131	34.704	4.36	189	97.4	27.798	1034.3	33.4	0.643	1477.3	0.026	147	1380
1516	1.235	1.146	4.282	3.140	34.704	4.36	189	97.3	27.798	1034.8	33.8	0.681	1479.3			1494

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	103B	2009/01/31	03:51	-74.6400	-104.3959	1516	9	1504	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
35	-0.429	-0.430	33.932	27.265	8.18	356	33.942					7	34
278	-1.285	-1.292	34.101	27.435	6.53	284	34.104					5	274
801	1.176	1.134	34.681	27.780	4.33	188	34.681					3	791
1516	1.235	1.146	34.704	27.798	4.36	189	34.707					1	1494

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	103U	2009/01/31	04:22	-74.6384	-104.3936	1516	9	1504	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.865	-0.865	0.976	0.976	33.566	9.14	398	26.986	1027.0	106.1	0.001	1443.2	1
25	-0.481	-0.482	1.395	1.376	33.876	8.33	362	27.221	1027.3	83.7	0.024	1445.8	25
50	-0.393	-0.395	1.507	1.470	33.961	8.10	352	27.286	1027.5	77.5	0.044	1446.7	50
75	-0.693	-0.695	1.228	1.172	33.992	7.42	323	27.325	1027.7	73.8	0.063	1445.8	74
100	-0.852	-0.855	1.090	1.014	34.029	6.98	303	27.361	1027.8	70.2	0.080	1445.5	99
125	-0.918	-0.922	1.043	0.949	34.037	6.88	299	27.370	1028.0	69.3	0.098	1445.6	124
150	-0.954	-0.958	1.027	0.914	34.045	6.82	296	27.378	1028.1	68.4	0.115	1445.8	148
175	-1.016	-1.020	0.984	0.853	34.055	6.60	287	27.389	1028.2	67.2	0.132	1446.0	173
200	-1.160	-1.166	0.859	0.708	34.063	6.66	289	27.400	1028.4	66.0	0.149	1445.7	198
225	-1.229	-1.235	0.810	0.640	34.074	6.61	287	27.411	1028.5	64.8	0.165	1445.8	222
250	-1.294	-1.301	0.764	0.576	34.088	6.61	287	27.424	1028.6	63.3	0.181	1445.9	247
275	-1.283	-1.290	0.795	0.588	34.099	6.52	284	27.433	1028.8	62.4	0.197	1446.4	272
300	-1.254	-1.262	0.844	0.618	34.108	6.45	281	27.440	1028.9	61.6	0.212	1447.0	297
325	-1.249	-1.257	0.868	0.623	34.118	6.44	280	27.447	1029.0	60.9	0.228	1447.4	321
350	-1.166	-1.176	0.970	0.706	34.129	6.28	273	27.453	1029.1	60.3	0.243	1448.2	346
375	-1.133	-1.143	1.022	0.740	34.135	6.22	271	27.457	1029.3	59.8	0.258	1448.8	371
400	-0.969	-0.981	1.206	0.905	34.159	5.97	259	27.471	1029.4	58.6	0.273	1450.0	395
425	-0.964	-0.977	1.231	0.911	34.174	6.00	261	27.483	1029.5	57.4	0.287	1450.5	420
450	-0.683	-0.698	1.532	1.193	34.207	5.65	246	27.499	1029.6	56.2	0.301	1452.2	445
475	-0.431	-0.448	1.806	1.449	34.254	5.37	234	27.526	1029.8	53.9	0.315	1453.9	469
500	-0.242	-0.261	2.016	1.640	34.298	5.25	228	27.552	1029.9	51.7	0.328	1455.2	494
550	0.294	0.271	2.598	2.184	34.429	4.76	207	27.631	1030.2	45.1	0.353	1458.7	543
600	0.682	0.655	3.029	2.577	34.523	4.53	197	27.684	1030.5	40.8	0.374	1461.4	593
650	0.917	0.885	3.305	2.815	34.586	4.40	191	27.720	1030.8	37.9	0.394	1463.4	642
700	1.045	1.010	3.473	2.946	34.628	4.35	189	27.746	1031.0	35.8	0.412	1464.8	691
750	1.147	1.108	3.615	3.050	34.664	4.32	188	27.768	1031.3	34.1	0.430	1466.2	741
800	1.176	1.134	3.682	3.080	34.679	4.32	188	27.778	1031.5	33.4	0.447	1467.1	790
850	1.180	1.136	3.724	3.084	34.682	4.33	188	27.781	1031.8	33.3	0.463	1468.0	839
900	1.202	1.154	3.784	3.106	34.689	4.32	188	27.785	1032.0	33.1	0.480	1468.9	888
950	1.204	1.153	3.824	3.108	34.692	4.33	188	27.788	1032.2	33.0	0.496	1469.8	938
1000	1.207	1.153	3.865	3.112	34.694	4.33	188	27.789	1032.5	33.0	0.513	1470.6	987
1200	1.216	1.149	4.025	3.121	34.699	4.35	189	27.793	1033.4	33.2	0.579	1474.0	1184
1400	1.226	1.145	4.185	3.131	34.701	4.36	189	27.795	1034.3	33.7	0.646	1477.3	1380
1516	1.235	1.146	4.282	3.140	34.704	4.36	189	27.798	1034.8	33.8	0.685	1479.3	1494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Pressure (dbar)
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120°W
110°W
100°W
70°S
72°S
74°S
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**104D**	2009/01/31	18:01	-74.1660	-104.0021	316	8	321	2	2.3	136	-4.2	997.6

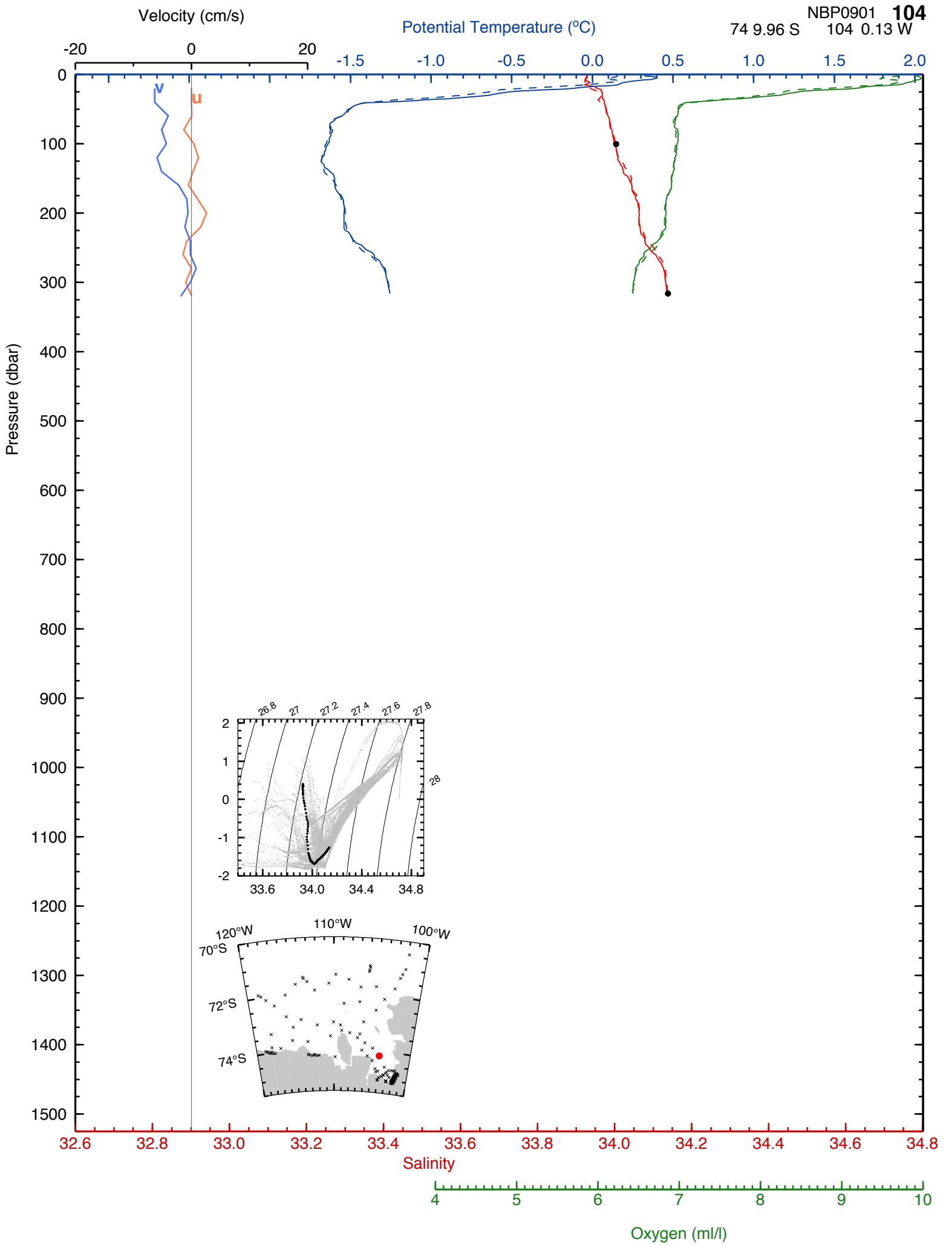
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.323	0.323	2.186	2.184	33.926	9.91	431	65.3	27.222	1027.2	83.7	0.002	1449.2			2
25	-0.516	-0.517	1.365	1.347	33.958	8.46	368	74.0	27.289	1027.4	77.3	0.021	1445.8	0.063	180	25
50	-1.511	-1.512	0.390	0.353	33.978	6.99	304	96.4	27.342	1027.6	72.0	0.039	1441.5	0.052	179	50
75	-1.627	-1.629	0.293	0.237	33.990	6.94	302	96.9	27.355	1027.7	70.7	0.057	1441.4	0.049	190	74
100	-1.637	-1.639	0.303	0.228	34.002	6.97	303	96.7	27.365	1027.8	69.6	0.075	1441.7	0.043	176	99
125	-1.679	-1.682	0.281	0.186	34.014	6.94	302	97.1	27.376	1028.0	68.3	0.092	1442.0	0.058	170	124
150	-1.595	-1.599	0.385	0.272	34.044	6.91	300	97.1	27.398	1028.1	66.2	0.109	1442.8	0.039	183	148
175	-1.553	-1.557	0.447	0.316	34.058	6.85	298	97.1	27.409	1028.2	65.1	0.125	1443.4	0.017	149	173
200	-1.535	-1.540	0.484	0.333	34.063	6.84	297	97.2	27.412	1028.4	64.6	0.141	1443.9	0.025	106	198
225	-1.525	-1.530	0.513	0.344	34.068	6.81	296	97.1	27.416	1028.5	64.1	0.157	1444.4	0.018	141	222
250	-1.409	-1.415	0.650	0.461	34.101	6.65	289	97.2	27.439	1028.6	61.8	0.173	1445.4	0.011	258	247
275	-1.299	-1.306	0.780	0.573	34.127	6.49	282	97.1	27.456	1028.8	60.2	0.188	1446.4	0.011	107	272
300	-1.256	-1.264	0.843	0.617	34.136	6.44	280	97.2	27.463	1028.9	59.5	0.203	1447.0	0.010	214	297
316	-1.250	-1.258	0.861	0.623	34.137	6.43	279	97.2	27.463	1029.0	59.4	0.213	1447.3			312

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	104B	2009/01/31	18:11	-74.1655	-104.0022	316	8	321	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
100	-1.646	-1.648	34.001	27.365	6.96	302	34.004					3	99
316	-1.248	-1.256	34.137	27.463	6.43	279	34.139					1	313

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	104U	2009/01/31	18:20	-74.1653	-104.0022	316	8	321	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.151	0.151	2.012	2.012	33.929	9.70	422	27.233	1027.2	82.6	0.001	1448.4	1
25	-0.637	-0.638	1.245	1.226	33.967	8.29	361	27.302	1027.4	76.1	0.020	1445.2	25
50	-1.504	-1.505	0.397	0.359	33.977	6.98	304	27.341	1027.6	72.2	0.039	1441.5	50
75	-1.620	-1.622	0.301	0.244	33.988	6.93	301	27.353	1027.7	70.8	0.056	1441.4	74
100	-1.649	-1.651	0.291	0.216	34.001	6.96	302	27.365	1027.8	69.6	0.074	1441.7	99
125	-1.679	-1.682	0.281	0.186	34.011	6.94	302	27.373	1028.0	68.6	0.091	1442.0	124
150	-1.608	-1.611	0.372	0.259	34.037	6.90	300	27.393	1028.1	66.6	0.108	1442.7	148
175	-1.558	-1.562	0.441	0.310	34.053	6.86	298	27.405	1028.2	65.4	0.125	1443.4	173
200	-1.528	-1.533	0.491	0.341	34.064	6.82	296	27.412	1028.4	64.6	0.141	1444.0	198
225	-1.516	-1.521	0.523	0.353	34.067	6.81	296	27.415	1028.5	64.2	0.157	1444.4	222
250	-1.438	-1.444	0.620	0.432	34.090	6.71	292	27.431	1028.6	62.6	0.173	1445.2	247
275	-1.304	-1.311	0.775	0.568	34.123	6.51	283	27.453	1028.8	60.5	0.188	1446.3	272
300	-1.262	-1.270	0.836	0.611	34.133	6.45	280	27.460	1028.9	59.8	0.203	1447.0	297
316	-1.250	-1.258	0.861	0.623	34.137	6.43	279	27.463	1029.0	59.4	0.213	1447.3	312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Potential Temperature (°C)
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NBP0901 104
74 9.96 S 104 0.13 W
Pressure (dbar)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**105D**	2009/01/31	22:06	-73.9172	-104.9976	304	9	310	2	0.9	122	-2.8	998.4

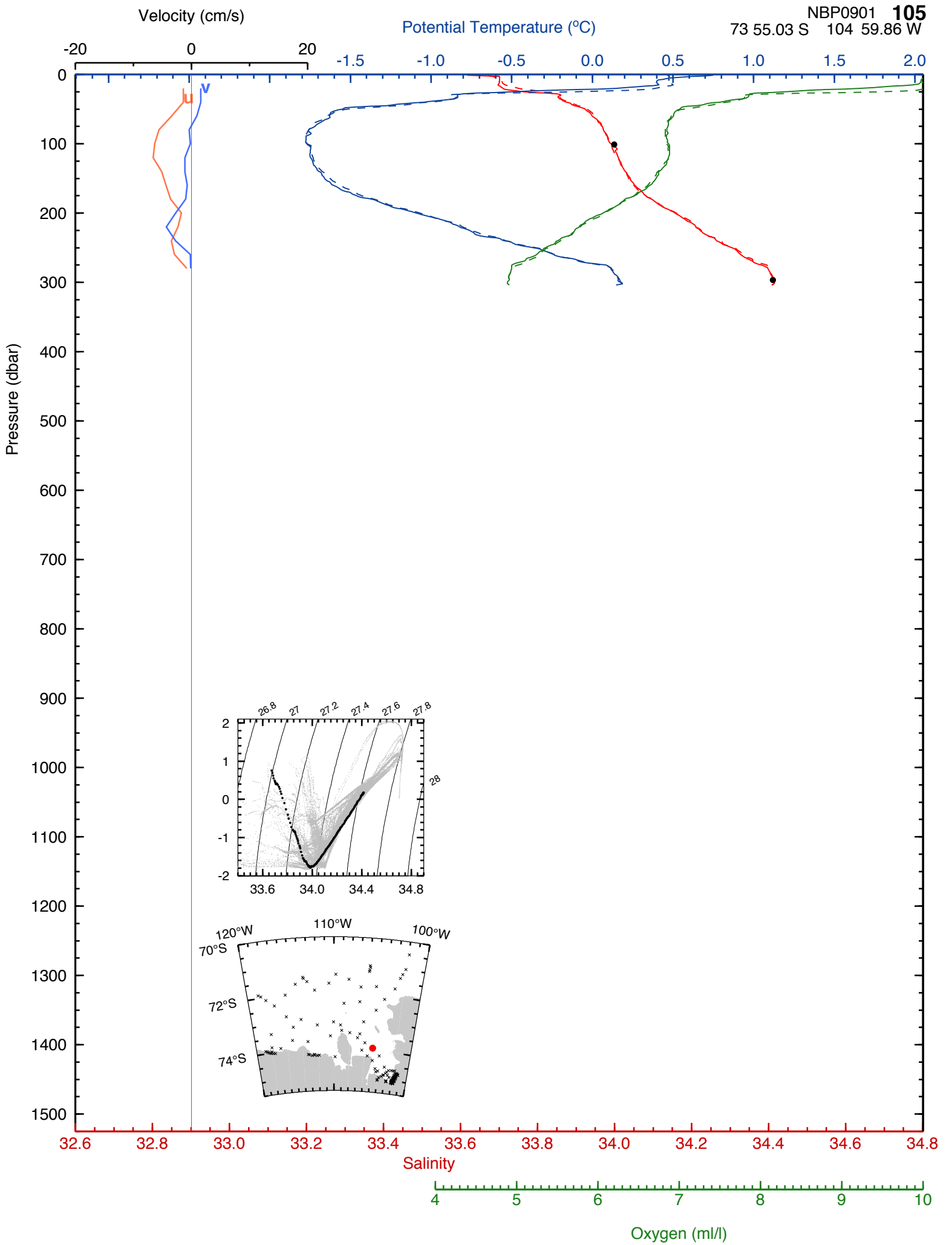
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.749	0.749	2.596	2.595	33.672	10.06	437	54.5	26.993	1027.0	105.4	0.001	1450.8			1
25	-0.504	-0.505	1.369	1.350	33.810	8.29	360	61.5	27.169	1027.3	88.7	0.025	1445.6	0.021	319	25
50	-1.552	-1.553	0.346	0.309	33.928	7.00	304	87.8	27.302	1027.5	75.8	0.045	1441.2	0.028	303	50
75	-1.719	-1.721	0.200	0.144	33.967	6.86	298	95.0	27.339	1027.7	72.2	0.064	1440.9	0.050	271	74
100	-1.768	-1.770	0.172	0.097	33.991	6.87	299	97.1	27.360	1027.8	70.0	0.081	1441.1	0.063	268	99
125	-1.733	-1.736	0.227	0.133	34.013	6.85	298	97.2	27.377	1028.0	68.2	0.099	1441.7	0.064	260	124
150	-1.656	-1.659	0.324	0.211	34.036	6.72	292	97.3	27.394	1028.1	66.5	0.116	1442.5	0.049	259	148
175	-1.461	-1.465	0.541	0.409	34.080	6.45	281	97.4	27.423	1028.3	63.7	0.132	1443.9	0.040	257	173
200	-1.087	-1.092	0.938	0.787	34.160	6.06	263	97.4	27.476	1028.4	58.9	0.147	1446.2	0.033	217	198
225	-0.754	-0.761	1.293	1.123	34.225	5.72	248	97.4	27.516	1028.6	55.2	0.161	1448.3	0.048	211	222
250	-0.354	-0.363	1.717	1.528	34.310	5.35	233	97.4	27.567	1028.8	50.6	0.175	1450.6	0.039	245	247
275	0.092	0.081	2.186	1.979	34.395	4.95	215	97.4	27.614	1028.9	46.5	0.187	1453.2	0.017	264	272
300	0.187	0.175	2.302	2.076	34.417	4.89	212	97.3	27.626	1029.0	45.4	0.198	1454.1			297
304	0.159	0.147	2.276	2.047	34.408	4.91	213	97.3	27.620	1029.1	45.9	0.200	1454.0			300

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	105B	2009/01/31	22:15	-73.9170	-104.9980	296	9	310	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
101	-1.756	-1.758	33.997	27.364	6.86	298	33.999					4	100
296	0.181	0.170	34.414	27.624	4.90	213	34.411					2	293

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	105U	2009/01/31	22:27	-73.9165	-104.9989	296	9	310	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.465	0.465	2.309	2.308	33.617	10.29	447	26.965	1027.0	108.1	0.001	1449.4	1
25	-0.130	-0.131	1.741	1.722	33.766	9.44	410	27.116	1027.2	93.7	0.025	1447.3	25
50	-1.525	-1.526	0.373	0.336	33.924	7.05	306	27.298	1027.5	76.2	0.046	1441.4	50
75	-1.743	-1.745	0.176	0.120	33.968	6.83	297	27.340	1027.7	72.0	0.064	1440.8	74
100	-1.767	-1.769	0.172	0.097	33.991	6.85	298	27.360	1027.8	70.0	0.082	1441.1	99
125	-1.723	-1.725	0.237	0.143	34.014	6.84	297	27.377	1028.0	68.2	0.099	1441.8	124
150	-1.622	-1.626	0.358	0.245	34.040	6.68	290	27.396	1028.1	66.3	0.116	1442.7	148
175	-1.429	-1.433	0.572	0.441	34.080	6.45	280	27.423	1028.3	63.8	0.133	1444.1	173
200	-1.066	-1.071	0.959	0.808	34.157	6.08	264	27.473	1028.4	59.2	0.148	1446.3	198
225	-0.745	-0.751	1.302	1.133	34.222	5.73	249	27.513	1028.6	55.4	0.162	1448.3	222
250	-0.336	-0.345	1.735	1.546	34.305	5.39	234	27.562	1028.8	51.0	0.176	1450.7	247
275	0.062	0.051	2.155	1.948	34.381	5.02	218	27.604	1028.9	47.4	0.188	1453.1	272
300	0.189	0.177	2.304	2.078	34.416	4.89	213	27.625	1029.0	45.5	0.199	1454.1	297
304	0.159	0.147	2.276	2.047	34.408	4.91	213	27.620	1029.1	45.9	0.201	1454.0	300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Pressure (dbar)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**106D**	2009/02/01	01:23	-73.7502	-106.0015	869	9	867	2	3.2	82	-2.0	997.8

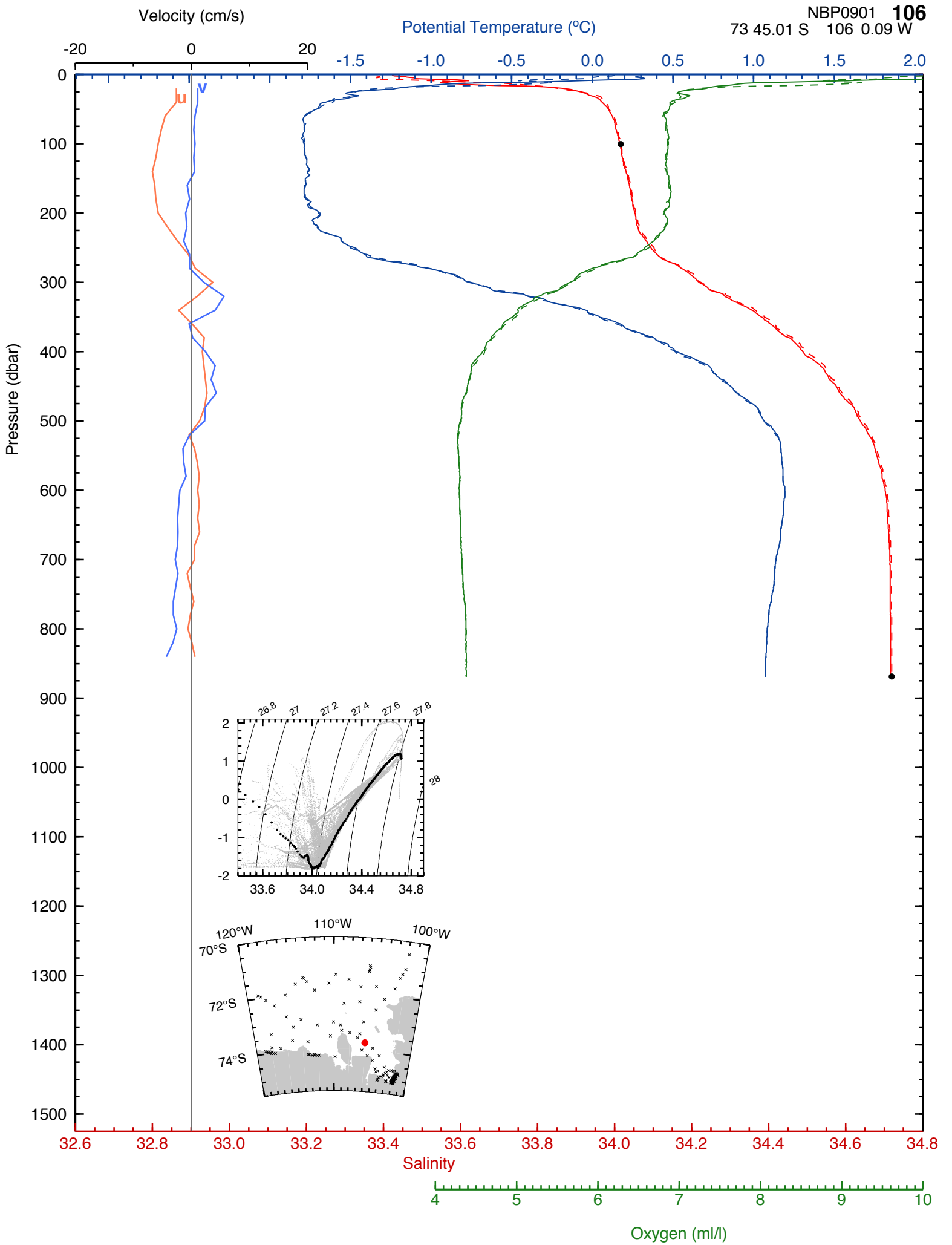
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.294	0.294	2.125	2.124	33.382	10.31	448	48.2	26.785	1026.8	125.2	0.003	1448.4			2
25	-1.488	-1.488	0.391	0.372	33.912	7.00	304	80.8	27.288	1027.4	77.3	0.025	1441.1	0.028	293	25
50	-1.710	-1.711	0.192	0.154	33.985	6.87	299	96.3	27.354	1027.6	71.0	0.044	1440.6	0.036	286	50
75	-1.785	-1.787	0.136	0.080	34.005	6.85	298	97.3	27.372	1027.7	69.0	0.061	1440.6	0.050	275	74
100	-1.786	-1.788	0.155	0.080	34.017	6.86	298	97.3	27.381	1027.9	68.0	0.078	1441.0	0.057	276	99
125	-1.767	-1.770	0.193	0.099	34.025	6.84	297	97.3	27.387	1028.0	67.3	0.095	1441.5	0.062	274	124
150	-1.774	-1.778	0.206	0.093	34.037	6.87	299	97.4	27.398	1028.1	66.1	0.112	1441.9	0.065	270	148
175	-1.782	-1.785	0.218	0.086	34.046	6.90	300	97.5	27.405	1028.2	65.3	0.128	1442.3	0.062	266	173
200	-1.693	-1.698	0.325	0.175	34.056	6.82	296	97.3	27.410	1028.4	64.6	0.144	1443.2	0.058	261	198
225	-1.683	-1.688	0.355	0.186	34.067	6.81	296	97.5	27.419	1028.5	63.7	0.161	1443.6	0.040	257	222
250	-1.468	-1.474	0.592	0.403	34.103	6.58	286	97.3	27.442	1028.6	61.5	0.176	1445.1	0.019	241	247
275	-1.100	-1.108	0.981	0.774	34.165	6.05	263	97.4	27.481	1028.8	58.0	0.191	1447.4	0.007	164	272
300	-0.758	-0.767	1.346	1.120	34.224	5.66	246	97.4	27.515	1028.9	55.0	0.205	1449.5	0.037	70	297
325	-0.281	-0.292	1.846	1.602	34.312	5.21	226	97.4	27.566	1029.1	50.6	0.219	1452.2	0.056	31	321
350	0.058	0.045	2.209	1.945	34.389	4.95	215	97.4	27.611	1029.3	46.7	0.231	1454.3	0.034	283	346
375	0.331	0.316	2.504	2.222	34.447	4.72	205	97.5	27.643	1029.4	44.0	0.242	1456.0	0.014	123	371
400	0.537	0.520	2.731	2.430	34.496	4.58	199	97.5	27.670	1029.6	41.6	0.253	1457.4	0.029	49	395
425	0.756	0.737	2.973	2.653	34.549	4.44	193	97.6	27.700	1029.7	39.2	0.263	1458.9	0.046	27	420
450	0.878	0.857	3.115	2.776	34.580	4.40	191	97.5	27.717	1029.8	37.7	0.272	1459.9	0.044	34	445
475	1.013	0.991	3.271	2.914	34.617	4.33	188	97.5	27.738	1030.0	35.9	0.282	1461.0	0.043	38	469
500	1.089	1.064	3.367	2.990	34.642	4.31	187	97.5	27.754	1030.1	34.7	0.290	1461.8	0.029	35	494
550	1.200	1.172	3.518	3.104	34.685	4.29	186	97.5	27.781	1030.4	32.4	0.307	1463.1	0.016	158	543
600	1.224	1.194	3.582	3.130	34.707	4.30	187	97.5	27.797	1030.6	31.2	0.323	1464.1	0.021	142	593
650	1.206	1.173	3.601	3.112	34.713	4.31	187	97.5	27.803	1030.9	30.6	0.338	1464.8	0.026	155	642
700	1.174	1.138	3.607	3.080	34.718	4.33	188	97.5	27.809	1031.1	30.2	0.354	1465.5	0.027	169	691
750	1.153	1.114	3.624	3.059	34.719	4.35	189	97.4	27.812	1031.3	30.1	0.369	1466.3	0.027	184	741
800	1.125	1.084	3.634	3.031	34.719	4.38	190	97.3	27.814	1031.6	29.9	0.384	1467.0	0.029	189	790
850	1.117	1.073	3.663	3.023	34.719	4.38	190	97.2	27.815	1031.8	30.0	0.399	1467.8	0.043	172	839
869	1.118	1.072	3.678	3.024	34.718	4.38	190	97.0	27.814	1031.9	30.1	0.404	1468.1	0.043	172	858

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	106B	2009/02/01	01:46	-73.7503	-106.0017	868	9	867	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
101	-1.783	-1.785	34.016	27.381	6.85	298	34.016					4	100
868	1.118	1.072	34.718	27.814	4.38	191	34.720					1	858

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	106U	2009/02/01	02:05	-73.7504	-106.0016	868	9	867	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.138	0.138	1.971	1.970	33.422	10.19	443	26.825	1026.8	121.3	0.001	1447.7	1
25	-1.469	-1.470	0.410	0.391	33.911	7.02	305	27.287	1027.4	77.5	0.025	1441.2	25
50	-1.704	-1.705	0.198	0.160	33.984	6.87	299	27.352	1027.6	71.1	0.044	1440.6	50
75	-1.785	-1.786	0.137	0.080	34.002	6.83	297	27.369	1027.7	69.3	0.061	1440.6	74
100	-1.785	-1.787	0.156	0.080	34.014	6.85	298	27.379	1027.9	68.2	0.078	1441.0	99
125	-1.771	-1.773	0.190	0.096	34.023	6.83	297	27.386	1028.0	67.4	0.095	1441.5	124
150	-1.772	-1.775	0.208	0.095	34.034	6.86	298	27.395	1028.1	66.4	0.112	1442.0	148
175	-1.776	-1.780	0.223	0.091	34.043	6.88	299	27.402	1028.2	65.5	0.128	1442.3	173
200	-1.686	-1.690	0.333	0.182	34.053	6.82	296	27.408	1028.4	64.9	0.145	1443.2	198
225	-1.688	-1.693	0.350	0.181	34.062	6.81	296	27.416	1028.5	64.0	0.161	1443.6	222
250	-1.496	-1.502	0.562	0.374	34.094	6.62	288	27.436	1028.6	62.1	0.177	1445.0	247
275	-1.072	-1.080	1.009	0.802	34.161	6.07	264	27.477	1028.8	58.5	0.192	1447.5	272
300	-0.744	-0.753	1.360	1.134	34.219	5.69	247	27.511	1028.9	55.4	0.206	1449.5	297
325	-0.308	-0.319	1.819	1.574	34.303	5.25	228	27.559	1029.1	51.2	0.219	1452.1	321
350	0.052	0.039	2.202	1.939	34.382	4.99	217	27.606	1029.3	47.2	0.232	1454.2	346
375	0.313	0.297	2.485	2.203	34.437	4.75	207	27.636	1029.4	44.6	0.243	1455.9	371
400	0.530	0.513	2.724	2.423	34.489	4.61	200	27.665	1029.6	42.1	0.254	1457.4	395
425	0.751	0.732	2.967	2.647	34.543	4.45	194	27.695	1029.7	39.5	0.264	1458.9	420
450	0.877	0.856	3.114	2.775	34.576	4.40	191	27.714	1029.8	38.0	0.274	1459.9	445
475	1.011	0.989	3.269	2.911	34.612	4.34	189	27.734	1030.0	36.3	0.283	1461.0	469
500	1.088	1.064	3.366	2.990	34.638	4.32	188	27.750	1030.1	35.0	0.292	1461.8	494
550	1.199	1.172	3.518	3.103	34.681	4.29	186	27.778	1030.4	32.7	0.309	1463.1	543
600	1.224	1.194	3.581	3.129	34.703	4.30	187	27.793	1030.6	31.4	0.325	1464.1	593
650	1.207	1.173	3.602	3.112	34.710	4.31	187	27.801	1030.9	30.9	0.340	1464.8	642
700	1.174	1.138	3.607	3.080	34.715	4.33	188	27.807	1031.1	30.4	0.356	1465.5	691
750	1.153	1.114	3.623	3.059	34.716	4.35	189	27.809	1031.3	30.3	0.371	1466.3	741
800	1.127	1.086	3.635	3.033	34.716	4.38	190	27.812	1031.6	30.1	0.386	1467.0	790
850	1.118	1.074	3.664	3.024	34.717	4.38	190	27.813	1031.8	30.1	0.401	1467.8	839
869	1.118	1.072	3.678	3.024	34.718	4.38	190	27.814	1031.9	30.1	0.407	1468.1	858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u
v
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**107D**	2009/02/01	05:04	-73.5843	-106.9997	605	368	966	2	5.5	73	-2.0	997.4

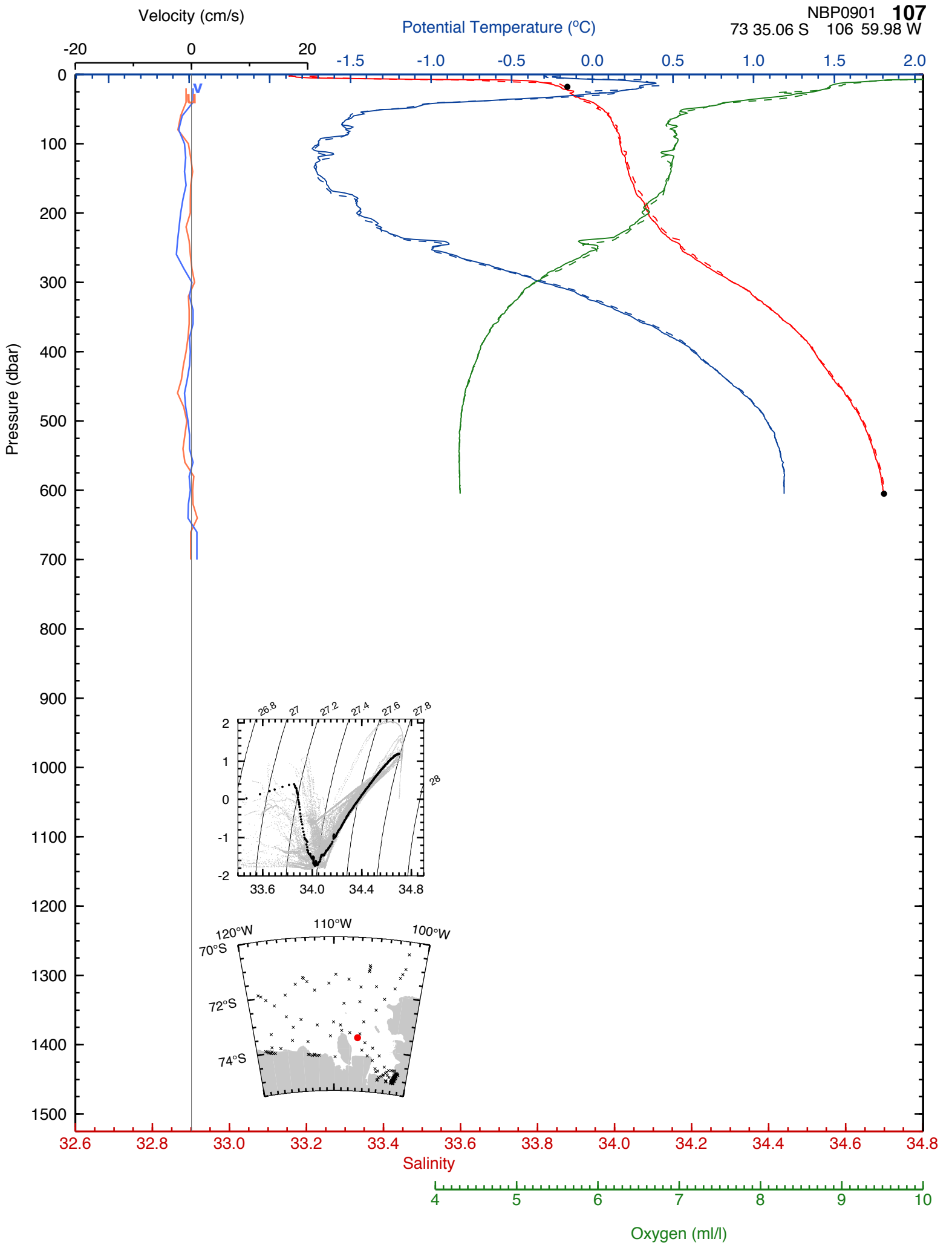
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.208	-0.208	1.614	1.613	33.228	10.53	458	53.5	26.686	1026.7	134.6	0.003	1445.8			2
25	0.147	0.146	2.024	2.005	33.882	8.65	376	70.5	27.196	1027.3	86.2	0.026	1448.7	0.009	288	25
50	-1.249	-1.250	0.651	0.613	33.959	7.05	307	82.9	27.319	1027.6	74.3	0.046	1442.7	0.017	261	50
75	-1.495	-1.497	0.427	0.370	34.008	6.98	303	94.3	27.366	1027.7	69.7	0.064	1442.0	0.030	227	74
100	-1.696	-1.698	0.245	0.170	34.017	6.96	303	95.0	27.379	1027.9	68.3	0.081	1441.5	0.014	204	99
125	-1.691	-1.693	0.270	0.176	34.031	6.91	301	96.2	27.390	1028.0	67.0	0.098	1441.9	0.010	183	124
150	-1.661	-1.665	0.319	0.206	34.049	6.86	298	96.8	27.404	1028.1	65.6	0.114	1442.5	0.011	177	148
175	-1.479	-1.483	0.522	0.390	34.072	6.74	293	96.7	27.417	1028.3	64.3	0.131	1443.8	0.013	187	173
200	-1.457	-1.462	0.564	0.413	34.093	6.63	288	96.8	27.434	1028.4	62.6	0.146	1444.3	0.018	186	198
225	-1.294	-1.300	0.747	0.578	34.128	6.34	276	97.0	27.457	1028.5	60.4	0.162	1445.6	0.023	202	222
250	-0.978	-0.986	1.085	0.897	34.177	6.00	261	97.1	27.486	1028.7	57.8	0.177	1447.5	0.025	188	247
275	-0.632	-0.641	1.454	1.247	34.245	5.57	242	97.2	27.527	1028.8	54.1	0.191	1449.7	0.018	179	272
300	-0.304	-0.315	1.804	1.578	34.307	5.22	227	97.3	27.562	1029.0	51.0	0.204	1451.7	0.006	95	297
325	-0.007	-0.020	2.123	1.879	34.371	5.00	217	97.4	27.600	1029.1	47.7	0.216	1453.5	0.006	243	321
350	0.261	0.247	2.414	2.150	34.430	4.80	209	97.4	27.633	1029.3	44.8	0.228	1455.3	0.005	307	346
375	0.473	0.457	2.648	2.365	34.480	4.65	202	97.5	27.661	1029.4	42.4	0.238	1456.7	0.006	273	371
400	0.641	0.624	2.837	2.536	34.519	4.54	197	97.5	27.683	1029.6	40.6	0.249	1457.9	0.009	254	395
425	0.776	0.756	2.992	2.672	34.553	4.46	194	97.6	27.701	1029.7	39.0	0.259	1459.0	0.014	258	420
450	0.900	0.879	3.138	2.799	34.586	4.39	191	97.6	27.720	1029.8	37.4	0.268	1460.0	0.020	247	445
475	1.020	0.998	3.278	2.921	34.618	4.34	189	97.6	27.739	1030.0	35.9	0.277	1461.0	0.022	238	469
500	1.105	1.080	3.383	3.007	34.646	4.32	188	97.5	27.755	1030.1	34.6	0.286	1461.8	0.012	233	494
550	1.194	1.167	3.513	3.098	34.680	4.30	187	97.6	27.777	1030.4	32.8	0.303	1463.1	0.014	263	543
600	1.218	1.188	3.575	3.123	34.700	4.30	187	97.6	27.792	1030.6	31.6	0.319	1464.1	0.004	135	593
605	1.219	1.188	3.580	3.124	34.699	4.30	187	97.6	27.790	1030.6	31.7	0.321	1464.2			598

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	107B	2009/02/01	05:18	-73.5845	-106.9992	605	368	966	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
18	0.144	0.144	33.892	27.205	8.88	386	33.877					3	18
605	1.219	1.188	34.698	27.790	4.30	187	34.699					1	598

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	107U	2009/02/01	05:32	-73.5844	-106.9996	605	368	966	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.292	-0.292	1.526	1.525	33.164	10.63	462	26.638	1026.6	139.1	0.001	1445.3	1
25	-0.045	-0.046	1.833	1.814	33.893	8.35	363	27.215	1027.3	84.4	0.026	1447.9	25
50	-1.255	-1.256	0.646	0.609	33.970	7.23	314	27.328	1027.6	73.5	0.046	1442.7	50
75	-1.543	-1.545	0.378	0.322	33.999	6.85	298	27.360	1027.7	70.2	0.064	1441.8	74
100	-1.696	-1.698	0.245	0.170	34.014	6.96	303	27.377	1027.9	68.4	0.081	1441.5	99
125	-1.695	-1.697	0.266	0.172	34.028	6.86	298	27.388	1028.0	67.3	0.098	1441.9	124
150	-1.696	-1.699	0.285	0.172	34.042	6.87	299	27.399	1028.1	66.0	0.114	1442.3	148
175	-1.565	-1.569	0.435	0.303	34.059	6.79	295	27.409	1028.3	65.0	0.131	1443.4	173
200	-1.432	-1.437	0.588	0.438	34.088	6.55	285	27.429	1028.4	63.1	0.147	1444.5	198
225	-1.302	-1.308	0.739	0.570	34.119	6.39	278	27.450	1028.5	61.0	0.162	1445.5	222
250	-0.993	-1.000	1.070	0.882	34.171	5.94	258	27.482	1028.7	58.2	0.177	1447.5	247
275	-0.669	-0.677	1.417	1.210	34.234	5.64	245	27.519	1028.8	54.8	0.191	1449.5	272
300	-0.269	-0.279	1.840	1.614	34.308	5.24	228	27.561	1029.0	51.1	0.205	1451.8	297
325	0.025	0.013	2.157	1.912	34.374	5.00	217	27.600	1029.1	47.7	0.217	1453.7	321
350	0.280	0.266	2.433	2.170	34.429	4.79	208	27.631	1029.3	45.0	0.228	1455.4	346
375	0.500	0.484	2.675	2.393	34.481	4.64	202	27.660	1029.4	42.5	0.239	1456.8	371
400	0.654	0.637	2.850	2.549	34.519	4.54	197	27.681	1029.6	40.7	0.250	1458.0	395
425	0.780	0.761	2.997	2.677	34.550	4.46	194	27.699	1029.7	39.3	0.260	1459.0	420
450	0.905	0.884	3.142	2.803	34.582	4.39	191	27.717	1029.8	37.7	0.269	1460.0	445
475	1.024	1.001	3.282	2.924	34.616	4.34	189	27.736	1030.0	36.2	0.279	1461.0	469
500	1.108	1.083	3.386	3.010	34.643	4.31	187	27.753	1030.1	34.8	0.288	1461.8	494
550	1.194	1.166	3.512	3.098	34.676	4.29	186	27.774	1030.4	33.1	0.304	1463.1	543
600	1.218	1.188	3.575	3.123	34.697	4.30	187	27.789	1030.6	31.8	0.321	1464.1	593
605	1.219	1.188	3.580	3.124	34.699	4.30	187	27.790	1030.6	31.7	0.322	1464.2	598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Potential Temperature (°C)
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1.0
1.5
2.0
Pressure (dbar)
0
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200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
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26.8
27
27.2
27.4
27.6
27.8
28
2
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-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**108D**	2009/02/01	09:13	-73.4170	-108.0022	631	11	634	2	7.3	64	-3.0	997.5

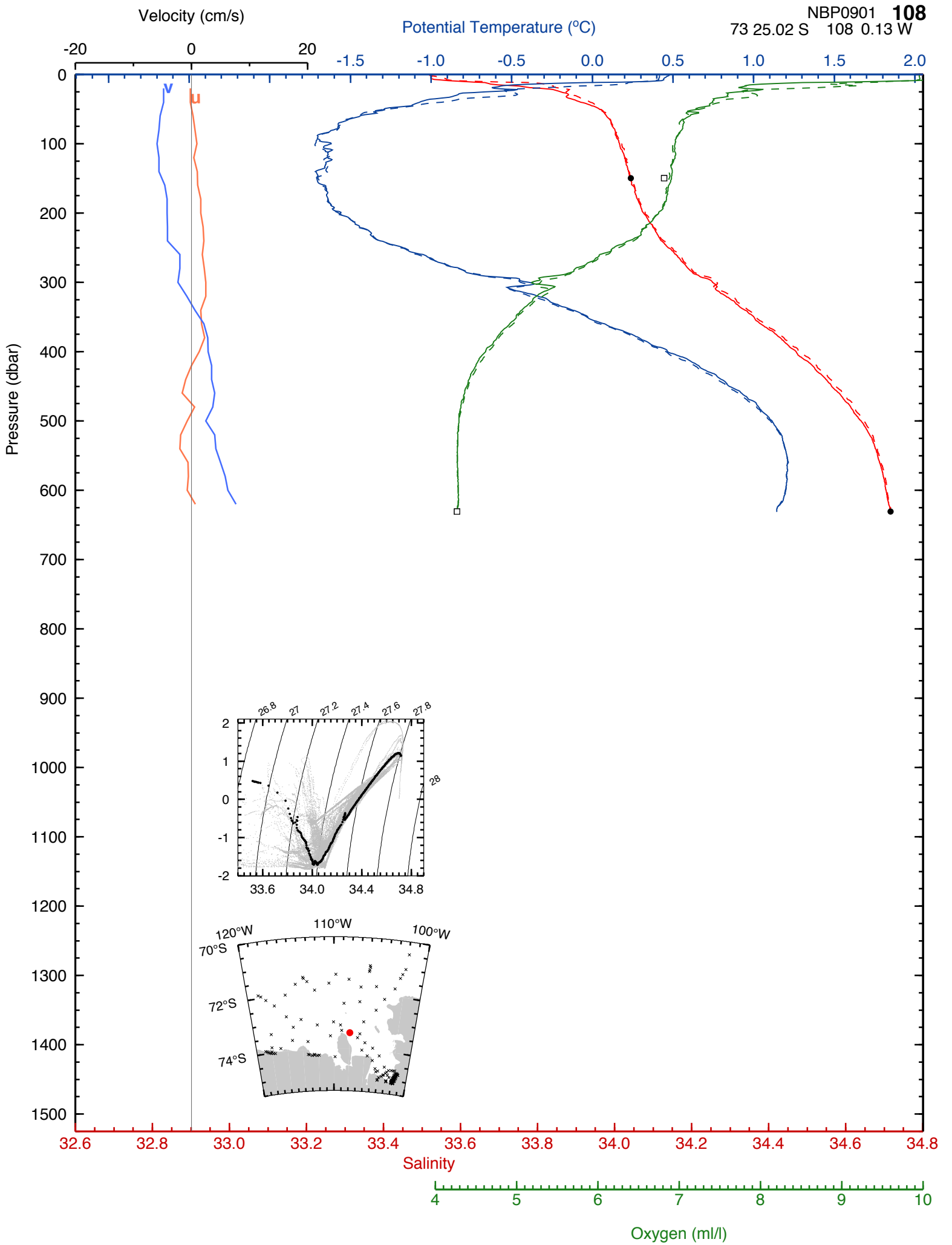
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.478	0.478	2.317	2.316	33.518	10.08	439	62.2	26.885	1026.9	115.7	0.001	1449.4			1
25	-0.663	-0.664	1.214	1.195	33.875	7.73	336	72.9	27.228	1027.3	83.1	0.024	1445.0	0.048	182	25
50	-1.291	-1.292	0.610	0.572	33.962	7.22	314	90.9	27.322	1027.6	74.0	0.044	1442.5	0.051	180	50
75	-1.569	-1.571	0.352	0.296	33.999	7.04	306	94.3	27.361	1027.7	70.2	0.062	1441.7	0.055	175	74
100	-1.617	-1.619	0.324	0.249	34.019	6.95	302	94.7	27.378	1027.9	68.3	0.079	1441.9	0.060	171	99
125	-1.631	-1.634	0.330	0.235	34.031	6.93	301	96.2	27.388	1028.0	67.2	0.096	1442.2	0.056	175	124
150	-1.706	-1.709	0.275	0.162	34.042	6.90	300	96.7	27.400	1028.1	65.9	0.113	1442.3	0.053	169	148
175	-1.645	-1.649	0.355	0.223	34.059	6.85	298	96.8	27.412	1028.3	64.7	0.129	1443.0	0.046	162	173
200	-1.555	-1.559	0.465	0.315	34.079	6.75	293	97.0	27.425	1028.4	63.3	0.145	1443.9	0.045	159	198
225	-1.381	-1.387	0.659	0.490	34.108	6.54	284	97.1	27.444	1028.5	61.5	0.161	1445.1	0.046	154	222
250	-1.165	-1.172	0.897	0.708	34.148	6.20	269	97.0	27.469	1028.7	59.2	0.176	1446.6	0.040	147	247
275	-0.901	-0.909	1.182	0.975	34.186	5.85	254	97.2	27.490	1028.8	57.3	0.190	1448.3	0.029	134	272
300	-0.383	-0.394	1.723	1.497	34.266	5.19	225	97.1	27.533	1029.0	53.7	0.204	1451.3	0.033	133	297
325	-0.264	-0.275	1.864	1.619	34.315	5.20	226	97.4	27.567	1029.1	50.5	0.217	1452.3	0.025	105	321
350	-0.016	-0.029	2.134	1.870	34.367	4.99	217	97.4	27.597	1029.3	47.9	0.230	1453.9	0.020	60	346
375	0.258	0.243	2.430	2.147	34.429	4.79	208	97.5	27.632	1029.4	44.9	0.241	1455.7	0.032	39	371
400	0.483	0.466	2.677	2.375	34.478	4.62	201	97.6	27.659	1029.6	42.7	0.252	1457.2	0.033	28	395
425	0.703	0.684	2.918	2.598	34.532	4.48	195	97.6	27.689	1029.7	40.1	0.262	1458.7	0.035	0	420
450	0.871	0.850	3.108	2.769	34.574	4.39	191	97.6	27.712	1029.8	38.1	0.272	1459.9	0.038	343	445
475	1.039	1.016	3.297	2.939	34.617	4.32	188	97.6	27.736	1030.0	36.2	0.281	1461.1	0.040	183	469
500	1.137	1.113	3.416	3.040	34.648	4.29	186	97.6	27.755	1030.1	34.6	0.290	1462.0	0.029	245	494
550	1.233	1.205	3.551	3.137	34.687	4.27	186	97.6	27.780	1030.4	32.6	0.307	1463.3	0.048	338	543
600	1.229	1.198	3.586	3.134	34.707	4.28	186	97.5	27.797	1030.6	31.1	0.323	1464.1	0.061	354	593
631	1.174	1.142	3.555	3.080	34.716	4.27	185	97.0	27.808	1030.8	30.1	0.332	1464.4			623

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	108B	2009/02/01	09:30	-73.4170	-108.0021	630	11	634	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
150	-1.702	-1.705	34.039	27.397	6.89	299	34.042	6.81	296			3	148
630	1.174	1.142	34.716	27.808	4.27	185	34.717	4.27	185			1	623

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	108U	2009/02/01	09:45	-73.4171	-108.0018	630	11	634	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.414	0.414	2.253	2.252	33.524	9.96	433	26.893	1026.9	114.9	0.001	1449.1	1
25	-0.525	-0.526	1.350	1.332	33.860	7.79	339	27.211	1027.3	84.7	0.026	1445.6	25
50	-1.271	-1.272	0.630	0.592	33.961	7.25	315	27.321	1027.6	74.1	0.046	1442.6	50
75	-1.575	-1.577	0.346	0.289	33.994	7.01	305	27.357	1027.7	70.5	0.064	1441.6	74
100	-1.717	-1.719	0.224	0.149	34.013	6.93	301	27.376	1027.9	68.5	0.081	1441.4	99
125	-1.662	-1.665	0.299	0.205	34.029	6.92	301	27.388	1028.0	67.3	0.098	1442.1	124
150	-1.698	-1.701	0.282	0.169	34.041	6.87	299	27.399	1028.1	66.1	0.115	1442.3	148
175	-1.638	-1.642	0.362	0.230	34.056	6.83	297	27.409	1028.3	65.0	0.131	1443.0	173
200	-1.570	-1.574	0.450	0.299	34.075	6.76	294	27.423	1028.4	63.5	0.147	1443.8	198
225	-1.381	-1.386	0.660	0.490	34.105	6.54	284	27.441	1028.5	61.8	0.163	1445.1	222
250	-1.179	-1.186	0.882	0.694	34.140	6.25	271	27.463	1028.7	59.8	0.178	1446.5	247
275	-0.891	-0.899	1.191	0.984	34.184	5.85	254	27.488	1028.8	57.5	0.192	1448.4	272
300	-0.435	-0.445	1.670	1.444	34.254	5.30	230	27.526	1029.0	54.3	0.207	1451.0	297
325	-0.297	-0.308	1.831	1.586	34.303	5.25	228	27.559	1029.1	51.3	0.220	1452.1	321
350	-0.020	-0.033	2.129	1.866	34.362	5.00	218	27.593	1029.3	48.3	0.232	1453.9	346
375	0.239	0.224	2.410	2.128	34.419	4.82	209	27.625	1029.4	45.5	0.244	1455.6	371
400	0.474	0.457	2.667	2.366	34.471	4.64	202	27.654	1029.5	43.1	0.255	1457.1	395
425	0.679	0.660	2.894	2.574	34.521	4.50	196	27.682	1029.7	40.8	0.266	1458.5	420
450	0.855	0.834	3.091	2.752	34.564	4.40	191	27.706	1029.8	38.8	0.275	1459.8	445
475	1.020	0.997	3.277	2.919	34.607	4.33	188	27.730	1030.0	36.8	0.285	1461.0	469
500	1.128	1.104	3.407	3.030	34.640	4.29	187	27.749	1030.1	35.2	0.294	1461.9	494
550	1.234	1.206	3.552	3.138	34.683	4.27	186	27.777	1030.4	32.9	0.311	1463.3	543
600	1.227	1.196	3.584	3.132	34.705	4.28	186	27.795	1030.6	31.3	0.327	1464.1	593
631	1.174	1.142	3.555	3.080	34.716	4.27	185	27.808	1030.8	30.1	0.336	1464.4	623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2.0
NBP0901 108
73 25.02 S 108 0.13 W
Pressure (dbar)
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300
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500
600
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900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**109D**	2009/02/01	12:22	-73.3334	-109.0023	462	10	467	2	10.4	69	-2.3	997.2

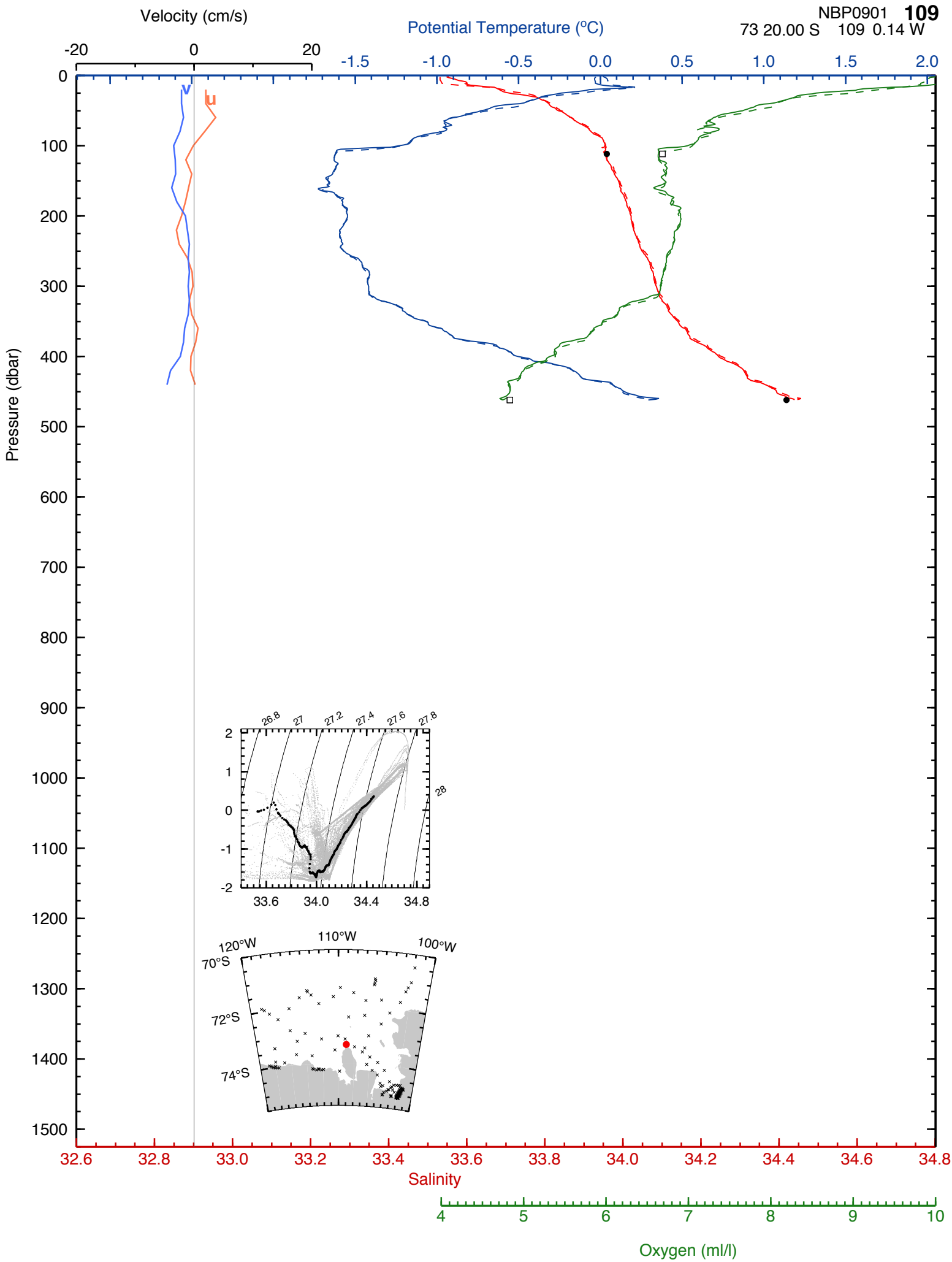
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.027	-0.027	1.812	1.811	33.531	10.03	436	65.1	26.922	1026.9	112.2	0.002	1447.1			2
25	-0.242	-0.243	1.627	1.608	33.745	8.55	372	69.8	27.105	1027.2	94.8	0.027	1446.8	0.029	136	25
50	-0.730	-0.731	1.164	1.126	33.842	7.66	333	81.6	27.204	1027.4	85.2	0.049	1445.0	0.035	127	50
75	-0.949	-0.951	0.967	0.911	33.917	7.35	320	87.5	27.274	1027.6	78.5	0.070	1444.5	0.033	135	74
100	-1.228	-1.230	0.710	0.635	33.954	6.99	304	90.8	27.314	1027.8	74.6	0.089	1443.6	0.035	180	99
125	-1.602	-1.605	0.355	0.261	33.970	6.73	293	94.7	27.338	1027.9	72.0	0.107	1442.3	0.034	201	124
150	-1.663	-1.666	0.315	0.202	33.990	6.71	292	96.1	27.357	1028.1	70.1	0.125	1442.4	0.034	190	148
175	-1.568	-1.572	0.429	0.297	34.010	6.81	296	96.1	27.370	1028.2	68.7	0.142	1443.3	0.035	202	173
200	-1.543	-1.548	0.474	0.323	34.023	6.90	300	96.1	27.380	1028.3	67.6	0.159	1443.8	0.027	231	198
225	-1.590	-1.595	0.446	0.277	34.033	6.83	297	96.0	27.389	1028.5	66.6	0.176	1444.0	0.031	250	222
250	-1.563	-1.568	0.494	0.305	34.054	6.77	294	96.1	27.406	1028.6	64.9	0.192	1444.6	0.022	243	247
275	-1.430	-1.437	0.646	0.439	34.079	6.71	291	96.5	27.422	1028.7	63.4	0.208	1445.7	0.011	212	272
300	-1.411	-1.419	0.685	0.459	34.089	6.66	289	96.7	27.430	1028.9	62.5	0.224	1446.2	0.010	193	297
325	-1.262	-1.270	0.854	0.610	34.113	6.26	272	96.8	27.444	1029.0	61.1	0.239	1447.3	0.011	224	321
350	-1.054	-1.064	1.082	0.819	34.145	5.96	259	97.1	27.463	1029.1	59.5	0.255	1448.8	0.013	188	346
375	-0.864	-0.875	1.294	1.012	34.183	5.69	247	97.2	27.486	1029.3	57.4	0.269	1450.1	0.018	164	371
400	-0.492	-0.505	1.689	1.388	34.252	5.32	231	97.0	27.527	1029.4	53.9	0.283	1452.4	0.023	187	395
425	-0.118	-0.134	2.085	1.765	34.318	4.97	216	96.8	27.562	1029.6	51.0	0.296	1454.6	0.040	188	420
450	0.166	0.147	2.392	2.053	34.401	4.83	210	97.3	27.615	1029.7	46.4	0.308	1456.4			445
462	0.314	0.294	2.551	2.204	34.439	4.75	206	97.3	27.637	1029.8	44.5	0.314	1457.4			457

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	109B	2009/02/01	12:36	-73.3334	-109.0023	462	10	467	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
112	-1.618	-1.620	33.955	27.327	6.63	288	33.959	6.68	291			3	111
462	0.262	0.243	34.427	27.631	4.78	208	34.419	4.83	210			1	457

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	109U	2009/02/01	12:49	-73.3337	-109.0015	462	10	467	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.015	0.015	1.855	1.854	33.554	10.06	438	26.938	1026.9	110.6	0.001	1447.3	1
25	-0.119	-0.120	1.748	1.729	33.709	8.98	391	27.070	1027.2	98.1	0.026	1447.3	25
50	-0.686	-0.687	1.208	1.170	33.835	7.77	338	27.197	1027.4	85.9	0.049	1445.2	50
75	-0.966	-0.968	0.950	0.894	33.911	7.18	312	27.270	1027.6	78.9	0.069	1444.4	74
100	-1.210	-1.212	0.728	0.653	33.956	7.05	306	27.314	1027.8	74.5	0.089	1443.7	99
125	-1.612	-1.615	0.345	0.251	33.965	6.68	290	27.334	1027.9	72.3	0.107	1442.2	124
150	-1.662	-1.665	0.316	0.203	33.989	6.69	291	27.355	1028.1	70.2	0.125	1442.4	148
175	-1.588	-1.592	0.409	0.277	34.005	6.75	294	27.366	1028.2	69.0	0.142	1443.2	173
200	-1.545	-1.550	0.471	0.321	34.021	6.89	299	27.378	1028.3	67.8	0.159	1443.8	198
225	-1.589	-1.594	0.447	0.278	34.031	6.83	297	27.388	1028.5	66.7	0.176	1444.0	222
250	-1.562	-1.568	0.494	0.306	34.049	6.79	295	27.402	1028.6	65.3	0.193	1444.6	247
275	-1.444	-1.450	0.633	0.425	34.072	6.72	292	27.416	1028.7	63.8	0.209	1445.6	272
300	-1.412	-1.419	0.684	0.458	34.086	6.67	290	27.427	1028.9	62.8	0.224	1446.2	297
325	-1.256	-1.265	0.860	0.615	34.108	6.34	275	27.440	1029.0	61.5	0.240	1447.4	321
350	-1.054	-1.064	1.083	0.819	34.141	5.99	260	27.459	1029.1	59.8	0.255	1448.8	346
375	-0.866	-0.878	1.291	1.009	34.174	5.78	251	27.480	1029.3	58.0	0.270	1450.1	371
400	-0.504	-0.517	1.677	1.375	34.245	5.38	234	27.522	1029.4	54.4	0.284	1452.3	395
425	-0.121	-0.137	2.082	1.762	34.314	4.98	216	27.560	1029.6	51.2	0.297	1454.6	420
450	0.156	0.138	2.382	2.044	34.394	4.84	210	27.610	1029.7	46.8	0.309	1456.4	445
462	0.314	0.294	2.551	2.204	34.439	4.75	206	27.637	1029.8	44.5	0.315	1457.4	457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120°W
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70°S
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74°S
32.6
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34.0
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34.4
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34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**110D**	2009/02/02	07:47	-73.1339	-112.0234	408	9	412	7	7.1	127	-0.5	1001.8

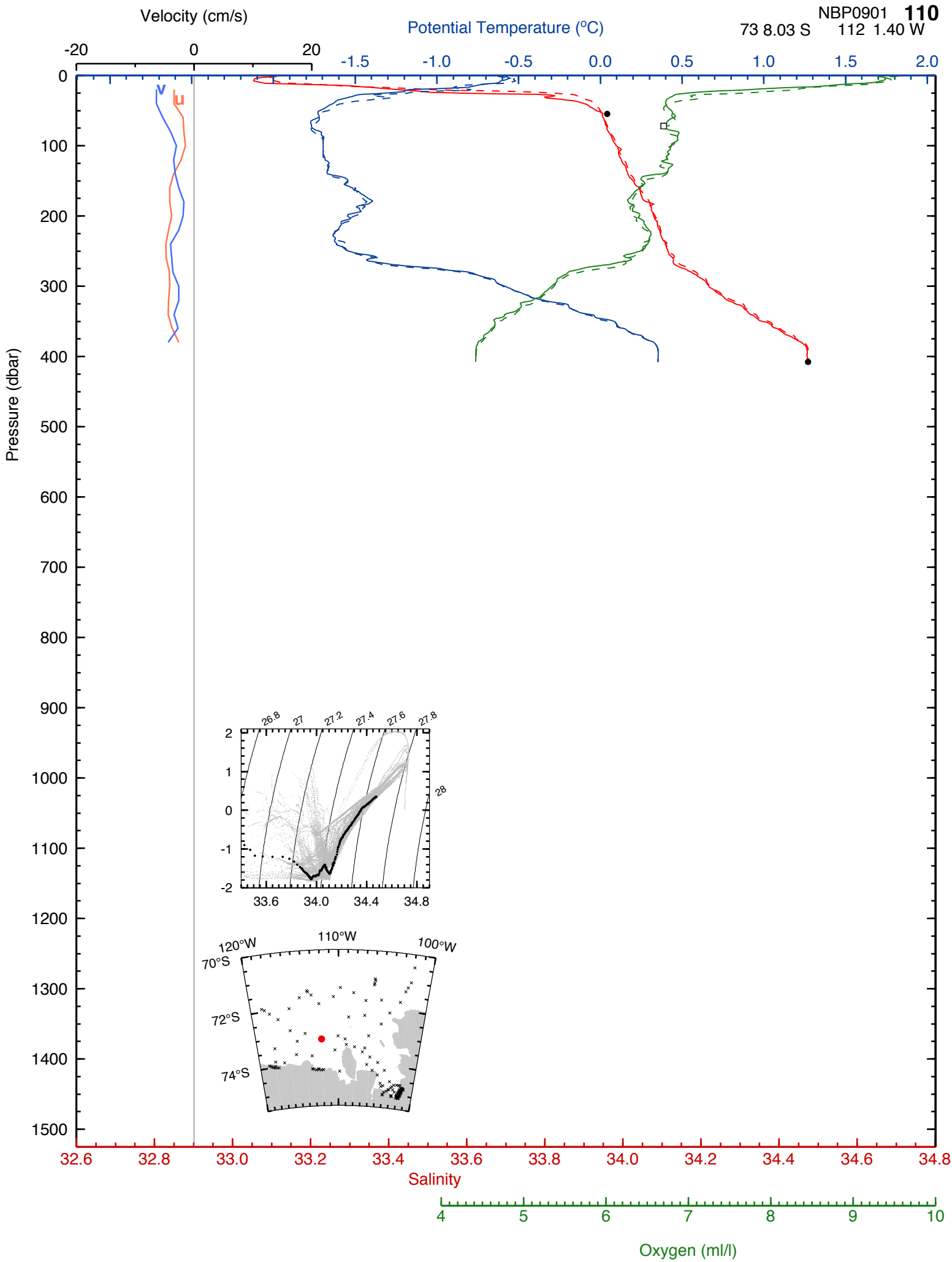
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.580	-0.580	1.235	1.235	33.114	9.30	404	73.4	26.609	1026.6	141.8	0.001	1443.9			1
25	-1.317	-1.318	0.556	0.537	33.822	6.98	304	77.9	27.209	1027.3	84.8	0.032	1441.8	0.072	208	25
50	-1.716	-1.718	0.183	0.145	33.942	6.79	295	84.4	27.319	1027.6	74.2	0.051	1440.5	0.064	204	50
75	-1.761	-1.763	0.158	0.102	33.963	6.73	293	97.4	27.337	1027.7	72.4	0.069	1440.7	0.047	202	74
100	-1.694	-1.696	0.246	0.170	33.985	6.79	295	96.0	27.353	1027.8	70.7	0.087	1441.5	0.035	206	99
125	-1.659	-1.661	0.301	0.207	34.008	6.76	294	95.8	27.371	1028.0	68.9	0.105	1442.0	0.042	215	124
150	-1.543	-1.546	0.437	0.324	34.032	6.45	280	97.1	27.387	1028.1	67.3	0.122	1443.0	0.048	232	148
175	-1.418	-1.422	0.582	0.450	34.061	6.28	273	97.4	27.407	1028.2	65.3	0.138	1444.1	0.046	244	173
200	-1.542	-1.546	0.478	0.328	34.082	6.41	278	97.2	27.428	1028.4	63.1	0.154	1443.9	0.042	244	198
225	-1.625	-1.630	0.415	0.245	34.100	6.54	284	97.2	27.444	1028.5	61.3	0.170	1444.0	0.051	238	222
250	-1.532	-1.538	0.528	0.340	34.118	6.41	279	97.3	27.456	1028.7	60.1	0.185	1444.8	0.061	230	247
275	-0.972	-0.980	1.109	0.902	34.169	5.71	248	97.3	27.479	1028.8	58.3	0.200	1448.0	0.057	230	272
300	-0.575	-0.585	1.529	1.303	34.227	5.34	232	97.5	27.510	1028.9	55.6	0.214	1450.3	0.050	236	297
325	-0.202	-0.214	1.925	1.681	34.307	4.96	216	97.4	27.558	1029.1	51.5	0.228	1452.6	0.050	238	321
350	0.098	0.084	2.248	1.984	34.374	4.65	202	97.2	27.596	1029.3	48.1	0.240	1454.5	0.053	233	346
375	0.286	0.271	2.459	2.177	34.443	4.51	196	96.8	27.642	1029.4	44.0	0.252	1455.8	0.049	222	371
400	0.370	0.354	2.564	2.262	34.475	4.42	192	96.3	27.663	1029.6	42.1	0.262	1456.7			395
408	0.369	0.352	2.568	2.261	34.474	4.42	192	96.4	27.662	1029.6	42.2	0.266	1456.8			403

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	110B	2009/02/02	07:59	-73.1341	-112.0234	408	9	412	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.565	-0.566	33.075	26.577	9.16	399							8	10
55	-1.725	-1.726	33.954	27.328	6.83	297		33.960					7	54
72	-1.769	-1.771	33.959	27.334	6.71	292			6.70	291			6	71
100	-1.694	-1.696	33.987	27.354	6.76	294							5	99
181	-1.435	-1.439	34.072	27.416	6.28	273							4	179
238	-1.521	-1.527	34.115	27.454	6.37	277							3	235
408	0.370	0.353	34.474	27.663	4.42	192		34.474					1	403

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	110U	2009/02/02	08:12	-73.1343	-112.0233	408	9	412	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.627	-0.627	1.187	1.186	33.103	9.54	415	26.602	1026.6	142.5	0.001	1443.7	1
25	-1.181	-1.181	0.679	0.660	33.582	7.67	334	27.011	1027.1	103.6	0.033	1442.1	25
50	-1.666	-1.667	0.233	0.195	33.933	6.71	292	27.310	1027.6	75.1	0.053	1440.7	50
75	-1.769	-1.770	0.150	0.094	33.959	6.72	292	27.334	1027.7	72.7	0.072	1440.7	74
100	-1.695	-1.697	0.245	0.169	33.983	6.79	295	27.352	1027.8	70.8	0.090	1441.4	99
125	-1.673	-1.675	0.286	0.192	34.000	6.72	292	27.365	1028.0	69.4	0.107	1442.0	124
150	-1.545	-1.548	0.435	0.322	34.027	6.44	280	27.383	1028.1	67.7	0.124	1443.0	148
175	-1.452	-1.456	0.548	0.416	34.050	6.33	275	27.399	1028.2	66.0	0.141	1443.9	173
200	-1.499	-1.504	0.521	0.370	34.079	6.33	275	27.424	1028.4	63.5	0.157	1444.1	198
225	-1.622	-1.627	0.418	0.249	34.096	6.53	284	27.441	1028.5	61.6	0.173	1444.0	222
250	-1.538	-1.543	0.522	0.334	34.115	6.44	280	27.454	1028.7	60.3	0.188	1444.8	247
275	-1.043	-1.051	1.038	0.831	34.157	5.96	259	27.472	1028.8	59.0	0.203	1447.6	272
300	-0.587	-0.597	1.516	1.291	34.220	5.37	233	27.505	1028.9	56.1	0.217	1450.2	297
325	-0.259	-0.270	1.868	1.623	34.289	5.09	221	27.546	1029.1	52.6	0.231	1452.3	321
350	0.068	0.055	2.217	1.954	34.358	4.70	204	27.585	1029.2	49.1	0.244	1454.3	346
375	0.289	0.274	2.462	2.179	34.441	4.52	196	27.640	1029.4	44.2	0.255	1455.8	371
400	0.369	0.352	2.562	2.261	34.472	4.42	192	27.661	1029.6	42.3	0.266	1456.6	395
408	0.369	0.352	2.568	2.261	34.474	4.42	192	27.662	1029.6	42.2	0.269	1456.8	403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0
20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**111D**	2009/02/02	12:27	-72.9161	-114.0018	500	9	503	3	0.1	346	-0.6	1002.0

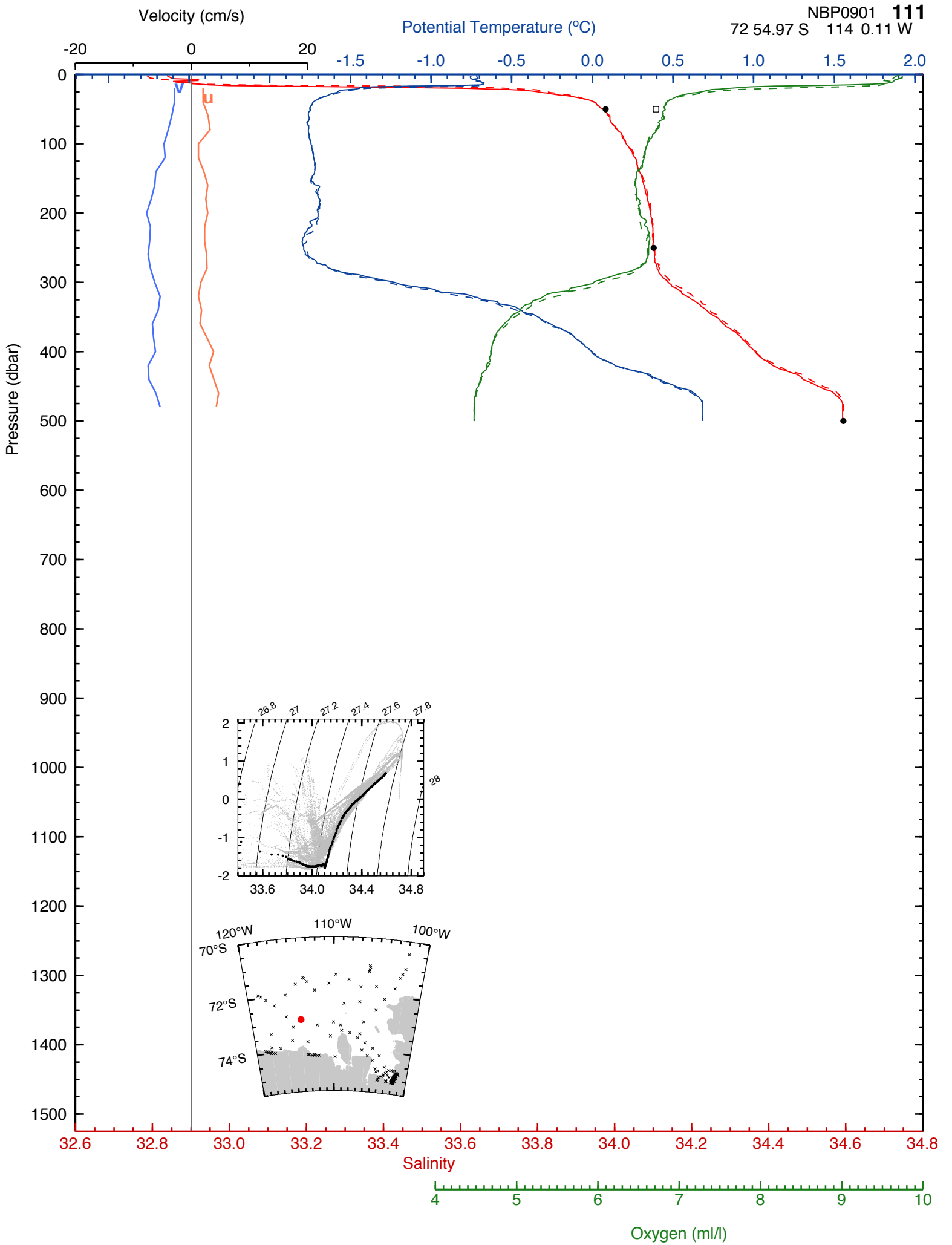
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.751	-0.751	1.046	1.045	32.786	9.75	424	69.7	26.350	1026.4	166.4	0.003	1442.7			2
25	-1.578	-1.578	0.296	0.277	33.827	7.27	316	74.2	27.221	1027.3	83.7	0.034	1440.6	0.035	145	25
50	-1.749	-1.750	0.152	0.114	33.971	6.83	297	91.4	27.343	1027.6	72.0	0.053	1440.3	0.040	143	50
75	-1.758	-1.759	0.164	0.107	34.000	6.75	294	96.1	27.367	1027.7	69.5	0.071	1440.8	0.049	141	74
100	-1.743	-1.745	0.199	0.124	34.032	6.61	287	97.1	27.392	1027.9	67.0	0.088	1441.3	0.049	164	99
125	-1.721	-1.723	0.242	0.148	34.057	6.55	285	97.4	27.413	1028.0	64.9	0.105	1441.8	0.050	164	124
150	-1.736	-1.740	0.246	0.133	34.074	6.47	281	97.4	27.427	1028.1	63.4	0.121	1442.2	0.067	159	148
175	-1.699	-1.703	0.303	0.171	34.087	6.48	282	97.4	27.436	1028.3	62.4	0.136	1442.8	0.072	159	173
200	-1.698	-1.702	0.323	0.172	34.097	6.52	283	97.4	27.444	1028.4	61.5	0.152	1443.2	0.081	160	198
225	-1.764	-1.768	0.276	0.107	34.100	6.61	287	97.4	27.448	1028.5	60.9	0.167	1443.3	0.075	162	222
250	-1.784	-1.789	0.275	0.087	34.103	6.62	288	97.4	27.452	1028.7	60.4	0.182	1443.6	0.077	162	247
275	-1.650	-1.656	0.429	0.222	34.115	6.53	284	97.4	27.458	1028.8	59.8	0.197	1444.7	0.077	160	272
300	-1.219	-1.227	0.880	0.654	34.150	5.95	259	97.5	27.473	1028.9	58.6	0.212	1447.2	0.067	165	297
325	-0.669	-0.680	1.453	1.208	34.214	5.24	228	97.4	27.503	1029.1	56.1	0.226	1450.3	0.055	167	321
350	-0.323	-0.335	1.821	1.558	34.272	4.93	214	97.5	27.535	1029.2	53.4	0.240	1452.4	0.062	165	346
375	-0.115	-0.129	2.051	1.768	34.326	4.75	206	97.5	27.569	1029.3	50.5	0.253	1453.8	0.070	162	371
400	0.008	-0.007	2.196	1.895	34.368	4.69	204	97.5	27.596	1029.5	48.0	0.265	1454.8	0.072	151	395
425	0.234	0.217	2.445	2.125	34.440	4.63	201	97.4	27.643	1029.7	43.9	0.277	1456.4	0.081	158	420
450	0.536	0.517	2.771	2.433	34.541	4.53	197	97.4	27.707	1029.8	38.3	0.287	1458.3	0.082	150	445
475	0.706	0.684	2.963	2.605	34.594	4.48	195	97.1	27.739	1030.0	35.4	0.296	1459.6	0.073	142	469
500	0.708	0.685	2.983	2.607	34.594	4.48	195	97.1	27.739	1030.1	35.5	0.305	1460.0			494

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	111B	2009/02/02	12:41	-72.9160	-114.0018	500	9	503	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
50	-1.746	-1.747	33.973	27.344	6.80	296	33.977	6.72	292			5	50
250	-1.789	-1.795	34.102	27.451	6.62	288	34.102					3	248
500	0.708	0.685	34.593	27.739	4.48	195	34.594					1	494

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	111U	2009/02/02	12:57	-72.9160	-114.0019	500	9	503	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.720	-0.720	1.080	1.079	32.839	9.70	422	26.392	1026.4	162.4	0.002	1442.9	1
25	-1.557	-1.558	0.315	0.297	33.801	7.38	321	27.199	1027.3	85.7	0.035	1440.6	25
50	-1.750	-1.751	0.151	0.113	33.971	6.80	296	27.343	1027.6	72.0	0.054	1440.3	50
75	-1.759	-1.760	0.163	0.106	34.002	6.74	293	27.368	1027.7	69.4	0.072	1440.8	74
100	-1.744	-1.746	0.198	0.123	34.030	6.61	287	27.391	1027.9	67.1	0.089	1441.3	99
125	-1.716	-1.719	0.246	0.152	34.057	6.54	284	27.412	1028.0	64.9	0.105	1441.8	124
150	-1.740	-1.743	0.242	0.129	34.072	6.46	281	27.425	1028.1	63.6	0.121	1442.2	148
175	-1.694	-1.698	0.307	0.176	34.084	6.47	281	27.433	1028.3	62.6	0.137	1442.8	173
200	-1.695	-1.699	0.326	0.175	34.093	6.52	283	27.441	1028.4	61.7	0.153	1443.2	198
225	-1.724	-1.729	0.316	0.147	34.099	6.55	285	27.447	1028.5	61.1	0.168	1443.5	222
250	-1.776	-1.781	0.283	0.095	34.102	6.62	288	27.451	1028.7	60.5	0.183	1443.7	247
275	-1.659	-1.665	0.419	0.212	34.109	6.54	284	27.453	1028.8	60.2	0.198	1444.6	272
300	-1.252	-1.260	0.847	0.621	34.140	6.03	262	27.465	1028.9	59.3	0.213	1447.0	297
325	-0.698	-0.708	1.423	1.179	34.202	5.33	232	27.495	1029.0	56.9	0.228	1450.1	321
350	-0.335	-0.347	1.809	1.546	34.265	4.97	216	27.530	1029.2	53.9	0.242	1452.3	346
375	-0.117	-0.131	2.049	1.767	34.321	4.76	207	27.564	1029.3	50.9	0.255	1453.8	371
400	0.011	-0.004	2.198	1.897	34.365	4.68	204	27.593	1029.5	48.2	0.267	1454.9	395
425	0.220	0.203	2.430	2.110	34.430	4.63	201	27.635	1029.6	44.6	0.279	1456.3	420
450	0.518	0.498	2.752	2.413	34.528	4.54	197	27.698	1029.8	39.1	0.289	1458.2	445
475	0.705	0.683	2.962	2.604	34.592	4.48	195	27.738	1030.0	35.6	0.299	1459.6	469
500	0.708	0.685	2.983	2.607	34.594	4.48	195	27.739	1030.1	35.5	0.308	1460.0	494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Potential Temperature (°C)
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NBP0901 111
72 54.97 S 114 0.11 W
Pressure (dbar)
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34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**112D**	2009/02/02	18:09	-72.7748	-115.7572	641	8	641	5	6.3	84	-0.8	1001.4

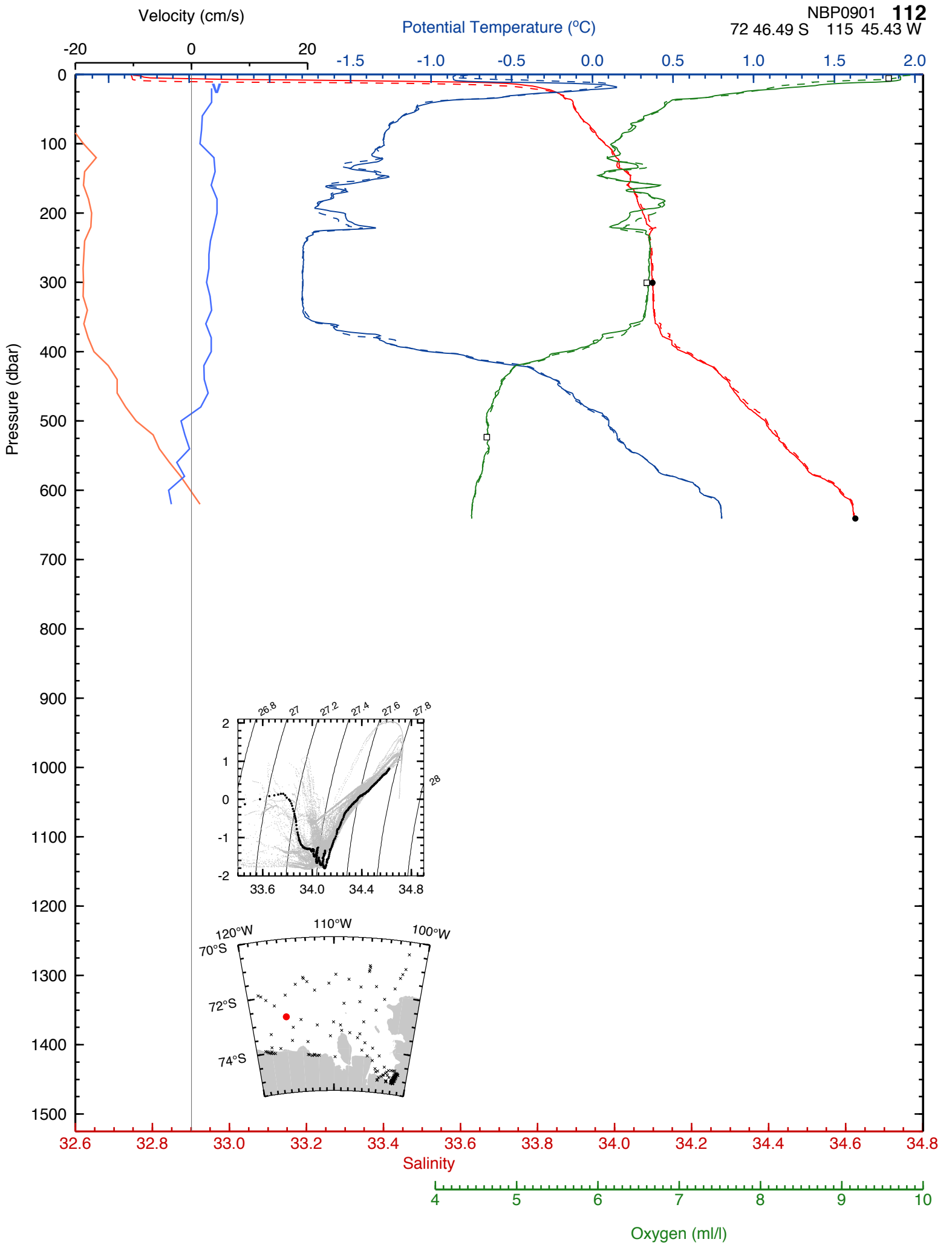
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.846	-0.846	0.948	0.947	32.744	9.70	422	70.1	26.320	1026.3	169.3	0.002	1442.2			1
25	-0.170	-0.171	1.705	1.686	33.839	7.79	339	77.3	27.177	1027.3	87.9	0.033	1447.2	0.223	279	25
50	-1.075	-1.076	0.822	0.784	33.899	6.77	294	87.6	27.264	1027.5	79.5	0.053	1443.5	0.217	277	50
75	-1.256	-1.258	0.662	0.605	33.934	6.47	281	95.2	27.299	1027.7	76.1	0.073	1443.1	0.207	275	74
100	-1.291	-1.294	0.648	0.572	33.976	6.17	268	96.1	27.334	1027.8	72.6	0.091	1443.3	0.188	275	99
125	-1.319	-1.322	0.640	0.546	34.012	6.22	270	96.2	27.364	1028.0	69.7	0.109	1443.7	0.173	283	124
150	-1.309	-1.312	0.672	0.559	34.040	6.17	268	95.7	27.386	1028.1	67.4	0.126	1444.2	0.189	282	148
175	-1.605	-1.608	0.396	0.264	34.057	6.63	288	96.4	27.410	1028.3	64.9	0.143	1443.2	0.184	283	173
200	-1.539	-1.544	0.482	0.331	34.090	6.39	278	96.8	27.434	1028.4	62.6	0.159	1444.0	0.178	284	198
225	-1.657	-1.662	0.382	0.213	34.083	6.58	286	96.9	27.432	1028.5	62.5	0.174	1443.8	0.178	282	222
250	-1.789	-1.794	0.270	0.082	34.096	6.64	289	97.0	27.446	1028.6	60.9	0.190	1443.6	0.187	280	247
275	-1.787	-1.793	0.291	0.084	34.099	6.63	288	97.1	27.448	1028.8	60.6	0.205	1444.0	0.188	279	272
300	-1.788	-1.794	0.309	0.083	34.101	6.62	288	97.2	27.450	1028.9	60.2	0.220	1444.4	0.188	278	297
325	-1.794	-1.801	0.322	0.077	34.102	6.61	287	97.2	27.451	1029.0	60.0	0.235	1444.8	0.190	280	321
350	-1.770	-1.778	0.365	0.101	34.106	6.58	286	97.1	27.453	1029.1	59.6	0.250	1445.3	0.183	280	346
375	-1.336	-1.346	0.819	0.537	34.143	6.06	263	97.2	27.471	1029.3	58.3	0.265	1447.8	0.184	279	371
400	-1.004	-1.015	1.173	0.872	34.184	5.60	243	97.2	27.493	1029.4	56.5	0.279	1449.9	0.173	281	395
425	-0.357	-0.372	1.843	1.523	34.263	4.94	215	97.4	27.529	1029.6	53.8	0.293	1453.4	0.145	278	420
450	-0.185	-0.202	2.036	1.698	34.305	4.80	209	97.4	27.555	1029.7	51.5	0.306	1454.7	0.130	281	445
475	-0.048	-0.066	2.194	1.837	34.345	4.70	204	97.4	27.581	1029.8	49.3	0.319	1455.8	0.123	281	469
500	0.121	0.101	2.385	2.009	34.395	4.63	201	97.3	27.612	1030.0	46.6	0.331	1457.0	0.102	265	494
550	0.326	0.303	2.632	2.218	34.474	4.60	200	97.3	27.665	1030.3	42.0	0.353	1458.9	0.053	262	543
600	0.692	0.664	3.043	2.591	34.586	4.49	195	97.2	27.734	1030.6	36.1	0.373	1461.5	0.033	203	593
641	0.831	0.801	3.215	2.732	34.621	4.45	193	97.0	27.754	1030.8	34.6	0.387	1462.9			633

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	112B	2009/02/02	18:27	-72.7750	-115.7569	641	8	641	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
5	-0.645	-0.645	32.968	26.494	9.57	416		9.58	417		-0.612	9	5
220	-1.471	-1.476	34.091	27.433	6.27	272					-0.595	8	217
301	-1.792	-1.798	34.099	27.448	6.61	287	34.099	6.60	287		-0.692	5	297
523	0.174	0.152	34.421	27.631	4.65	202		4.63	201			3	517
641	0.831	0.801	34.622	27.754	4.44	193	34.626				0.005	1	633

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	112U	2009/02/02	18:47	-72.7751	-115.7567	641	8	641	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.772	-0.772	1.022	1.022	32.750	9.84	428	26.322	1026.3	169.1	0.002	1442.5	1
25	-0.215	-0.215	1.661	1.642	33.847	7.85	341	27.186	1027.3	87.1	0.030	1447.0	25
50	-1.092	-1.093	0.805	0.767	33.896	6.80	296	27.262	1027.5	79.7	0.050	1443.4	50
75	-1.263	-1.265	0.655	0.598	33.937	6.42	279	27.301	1027.7	75.9	0.070	1443.0	74
100	-1.297	-1.299	0.642	0.567	33.975	6.18	269	27.333	1027.8	72.7	0.088	1443.3	99
125	-1.414	-1.417	0.546	0.452	34.009	6.24	271	27.364	1028.0	69.6	0.106	1443.2	124
150	-1.349	-1.353	0.631	0.518	34.041	6.12	266	27.388	1028.1	67.2	0.123	1444.0	148
175	-1.613	-1.617	0.387	0.255	34.055	6.64	289	27.408	1028.2	65.1	0.140	1443.1	173
200	-1.688	-1.693	0.332	0.181	34.073	6.71	291	27.425	1028.4	63.3	0.156	1443.2	198
225	-1.581	-1.587	0.459	0.289	34.096	6.34	276	27.440	1028.5	61.8	0.171	1444.2	222
250	-1.780	-1.785	0.279	0.091	34.093	6.63	288	27.443	1028.6	61.2	0.187	1443.6	247
275	-1.790	-1.796	0.287	0.080	34.096	6.63	288	27.446	1028.8	60.8	0.202	1444.0	272
300	-1.792	-1.798	0.305	0.079	34.099	6.62	288	27.448	1028.9	60.4	0.217	1444.4	297
325	-1.789	-1.796	0.327	0.082	34.100	6.60	287	27.449	1029.0	60.2	0.232	1444.8	321
350	-1.748	-1.756	0.387	0.123	34.104	6.56	285	27.451	1029.1	59.9	0.247	1445.4	346
375	-1.513	-1.523	0.641	0.359	34.122	6.32	275	27.459	1029.3	59.2	0.262	1447.0	371
400	-0.966	-0.978	1.210	0.909	34.177	5.68	247	27.485	1029.4	57.3	0.277	1450.0	395
425	-0.340	-0.355	1.860	1.540	34.260	4.95	215	27.527	1029.5	54.1	0.291	1453.5	420
450	-0.183	-0.199	2.038	1.699	34.300	4.80	209	27.551	1029.7	51.9	0.304	1454.7	445
475	-0.057	-0.075	2.185	1.827	34.337	4.71	205	27.575	1029.8	49.8	0.317	1455.7	469
500	0.120	0.100	2.384	2.008	34.391	4.63	201	27.609	1030.0	46.9	0.329	1457.0	494
550	0.325	0.301	2.631	2.216	34.468	4.62	201	27.661	1030.3	42.3	0.351	1458.9	543
600	0.695	0.667	3.045	2.594	34.584	4.50	195	27.732	1030.6	36.3	0.371	1461.5	593
641	0.831	0.801	3.215	2.732	34.621	4.45	193	27.754	1030.8	34.6	0.385	1462.9	633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0
20
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**113D**	2009/02/03	02:26	-73.1627	-115.0168	759	7	757	6	0.2	157	-0.4	1001.2

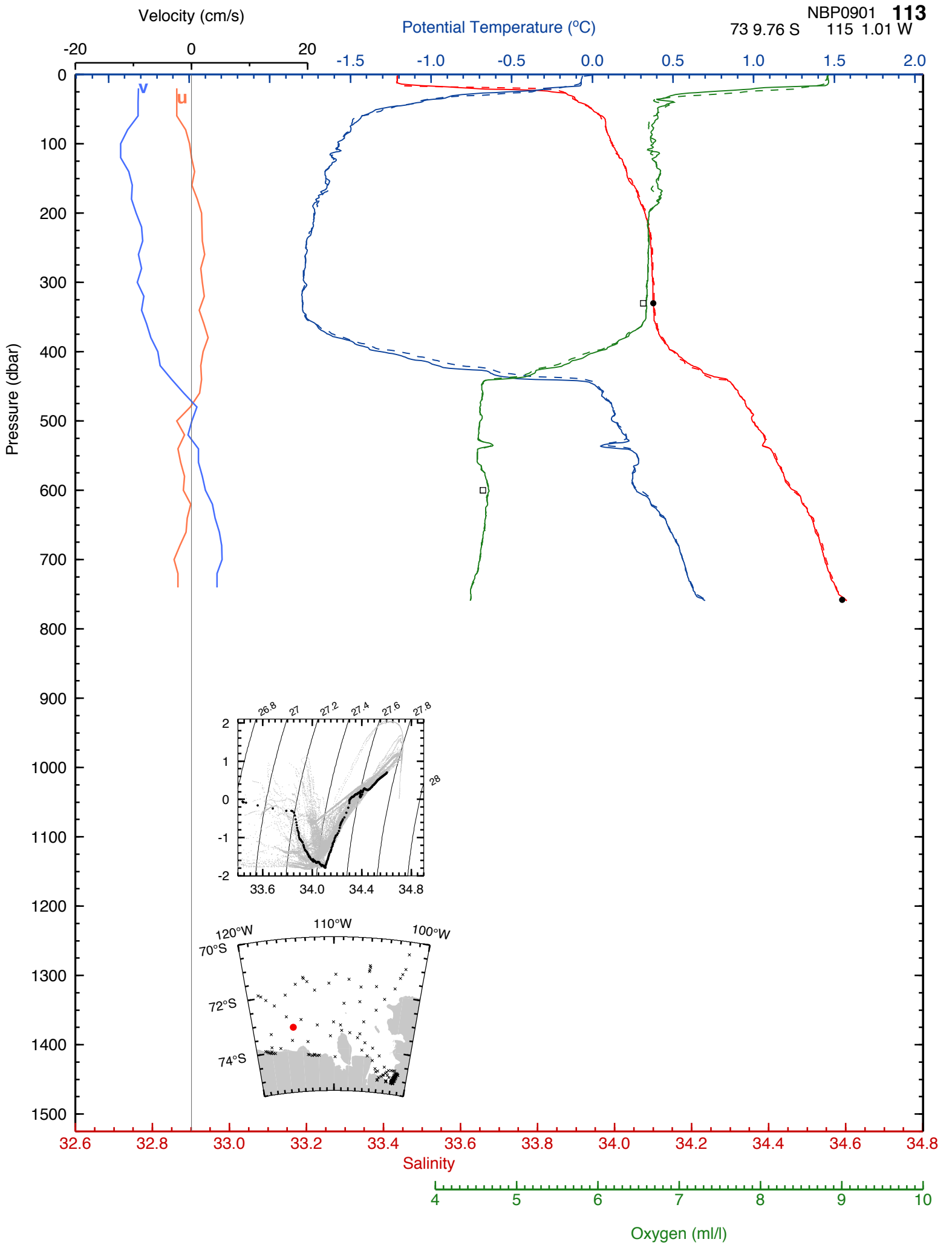
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.060	-0.060	1.774	1.773	33.436	8.83	384	75.1	26.847	1026.9	119.3	0.002	1446.8			2
25	-0.524	-0.525	1.352	1.333	33.866	7.34	319	81.5	27.215	1027.3	84.3	0.028	1445.6	0.094	195	25
50	-1.328	-1.329	0.572	0.534	33.945	6.74	293	86.4	27.310	1027.5	75.2	0.048	1442.3	0.095	195	50
75	-1.500	-1.501	0.420	0.364	33.976	6.67	290	91.4	27.340	1027.7	72.1	0.066	1442.0	0.106	188	74
100	-1.573	-1.575	0.367	0.292	33.994	6.68	290	92.9	27.357	1027.8	70.3	0.084	1442.0	0.121	182	99
125	-1.590	-1.593	0.370	0.276	34.017	6.70	291	94.5	27.376	1028.0	68.4	0.101	1442.4	0.119	180	124
150	-1.649	-1.652	0.331	0.218	34.039	6.74	293	95.7	27.396	1028.1	66.4	0.118	1442.5	0.105	178	148
175	-1.694	-1.698	0.306	0.175	34.063	6.77	294	96.6	27.417	1028.3	64.2	0.134	1442.8	0.103	176	173
200	-1.717	-1.721	0.303	0.153	34.082	6.63	288	96.7	27.433	1028.4	62.6	0.150	1443.1	0.098	170	198
225	-1.736	-1.741	0.304	0.134	34.092	6.62	288	96.9	27.442	1028.5	61.5	0.166	1443.4	0.088	168	222
250	-1.773	-1.778	0.286	0.098	34.097	6.63	288	97.1	27.446	1028.6	60.9	0.181	1443.7	0.089	167	247
275	-1.773	-1.779	0.304	0.097	34.099	6.61	287	97.1	27.448	1028.8	60.6	0.196	1444.1	0.090	168	272
300	-1.779	-1.786	0.318	0.092	34.102	6.61	287	97.3	27.451	1028.9	60.2	0.211	1444.4	0.094	169	297
325	-1.793	-1.800	0.323	0.078	34.103	6.60	287	97.3	27.452	1029.0	59.9	0.226	1444.8	0.085	165	321
350	-1.768	-1.776	0.367	0.103	34.106	6.59	286	97.3	27.453	1029.1	59.6	0.241	1445.3	0.085	169	346
375	-1.629	-1.637	0.526	0.243	34.118	6.39	278	97.2	27.459	1029.3	59.0	0.256	1446.4	0.078	161	371
400	-1.303	-1.313	0.872	0.571	34.153	5.99	260	97.2	27.478	1029.4	57.6	0.271	1448.4	0.065	160	395
425	-0.809	-0.823	1.388	1.068	34.215	5.32	231	97.3	27.510	1029.5	55.1	0.285	1451.2	0.056	164	420
450	0.042	0.025	2.264	1.925	34.310	4.57	199	96.8	27.548	1029.7	52.6	0.298	1455.7	0.034	149	445
475	0.138	0.119	2.380	2.023	34.344	4.56	198	96.9	27.570	1029.8	50.5	0.311	1456.6	0.014	234	469
500	0.144	0.124	2.406	2.030	34.360	4.55	198	97.0	27.583	1030.0	49.4	0.324	1457.1	0.020	295	494
550	0.301	0.278	2.604	2.190	34.419	4.51	196	97.0	27.622	1030.2	45.9	0.347	1458.7	0.025	298	543
600	0.297	0.271	2.640	2.188	34.462	4.66	202	97.3	27.658	1030.5	42.6	0.370	1459.6	0.026	329	593
650	0.495	0.466	2.879	2.390	34.520	4.61	200	97.3	27.693	1030.8	39.7	0.390	1461.4	0.043	350	642
700	0.593	0.561	3.016	2.489	34.549	4.55	198	97.3	27.711	1031.0	38.2	0.409	1462.7	0.059	334	691
750	0.675	0.639	3.138	2.573	34.582	4.44	193	97.0	27.733	1031.3	36.4	0.428	1463.9	0.050	332	741
759	0.736	0.699	3.207	2.635	34.603	4.43	192	96.9	27.745	1031.3	35.4	0.431	1464.4			750

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	113B	2009/02/03	02:46	-73.1631	-115.0168	758	7	757	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
9	-0.103	-0.103	33.465	26.872	8.76	381				2206.2	-0.702	12	9
60	-1.442	-1.443	33.966	27.330	6.69	291				2210.5	-0.577	9	60
330	-1.785	-1.792	34.103	27.451	6.59	286	34.101	6.55	285	2213.3	-0.643	7	326
484	0.148	0.129	34.349	27.574	4.55	198				2244.1	-0.261	5	478
600	0.315	0.290	34.468	27.661	4.65	202		4.58	199	2249.4	-0.137	3	593
758	0.720	0.684	34.598	27.742	4.44	193	34.591			2264.9	-0.156	1	749

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	113U	2009/02/03	03:09	-73.1620	-115.0179	758	7	757	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.004	-0.004	1.830	1.829	33.438	8.84	384	26.845	1026.8	119.5	0.001	1447.0	1
25	-0.373	-0.374	1.502	1.483	33.837	7.80	339	27.185	1027.3	87.2	0.028	1446.3	25
50	-1.284	-1.286	0.615	0.577	33.941	6.80	296	27.305	1027.5	75.6	0.048	1442.5	50
75	-1.493	-1.495	0.427	0.371	33.977	6.63	288	27.341	1027.7	72.0	0.066	1442.0	74
100	-1.566	-1.569	0.374	0.298	33.992	6.67	290	27.355	1027.8	70.5	0.084	1442.1	99
125	-1.612	-1.615	0.348	0.254	34.021	6.70	291	27.380	1028.0	68.0	0.101	1442.3	124
150	-1.652	-1.655	0.328	0.215	34.035	6.75	293	27.392	1028.1	66.7	0.118	1442.5	148
175	-1.677	-1.681	0.323	0.191	34.060	6.76	294	27.413	1028.3	64.5	0.135	1442.8	173
200	-1.721	-1.725	0.299	0.149	34.079	6.63	288	27.430	1028.4	62.8	0.151	1443.1	198
225	-1.738	-1.742	0.302	0.133	34.090	6.61	287	27.440	1028.5	61.7	0.166	1443.4	222
250	-1.768	-1.773	0.291	0.102	34.094	6.62	288	27.444	1028.6	61.1	0.181	1443.7	247
275	-1.778	-1.784	0.299	0.092	34.097	6.61	287	27.446	1028.8	60.8	0.197	1444.0	272
300	-1.779	-1.786	0.318	0.092	34.099	6.61	287	27.448	1028.9	60.4	0.212	1444.4	297
325	-1.791	-1.798	0.325	0.080	34.100	6.59	287	27.449	1029.0	60.2	0.227	1444.8	321
350	-1.773	-1.780	0.362	0.098	34.102	6.59	286	27.451	1029.1	59.9	0.242	1445.3	346
375	-1.596	-1.605	0.558	0.276	34.116	6.36	276	27.457	1029.3	59.3	0.257	1446.6	371
400	-1.189	-1.200	0.986	0.685	34.155	5.92	257	27.476	1029.4	57.9	0.271	1449.0	395
425	-0.624	-0.638	1.574	1.254	34.223	5.24	228	27.509	1029.5	55.4	0.286	1452.1	420
450	0.054	0.037	2.276	1.937	34.309	4.56	198	27.547	1029.7	52.7	0.299	1455.8	445
475	0.132	0.113	2.374	2.016	34.340	4.56	198	27.567	1029.8	50.8	0.312	1456.6	469
500	0.155	0.135	2.417	2.041	34.358	4.56	198	27.581	1029.9	49.6	0.325	1457.2	494
550	0.299	0.276	2.602	2.188	34.414	4.52	196	27.619	1030.2	46.3	0.349	1458.7	543
600	0.315	0.289	2.658	2.207	34.466	4.65	202	27.659	1030.5	42.5	0.371	1459.7	593
650	0.498	0.468	2.882	2.392	34.517	4.61	200	27.691	1030.8	39.9	0.391	1461.4	642
700	0.592	0.560	3.015	2.488	34.545	4.55	198	27.708	1031.0	38.5	0.411	1462.7	691
750	0.682	0.647	3.145	2.580	34.582	4.44	193	27.732	1031.3	36.5	0.430	1464.0	741
759	0.736	0.699	3.207	2.635	34.603	4.43	192	27.745	1031.3	35.4	0.433	1464.4	750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Potential Temperature (°C)
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1.0
1.5
2.0
NBP0901 113
73 9.76 S 115 1.01 W
Pressure (dbar)
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100
200
300
400
500
600
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800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**114D**	2009/02/03	07:00	-73.6339	-115.2551	918	9	915	3	14.8	100	-1.3	1001.3

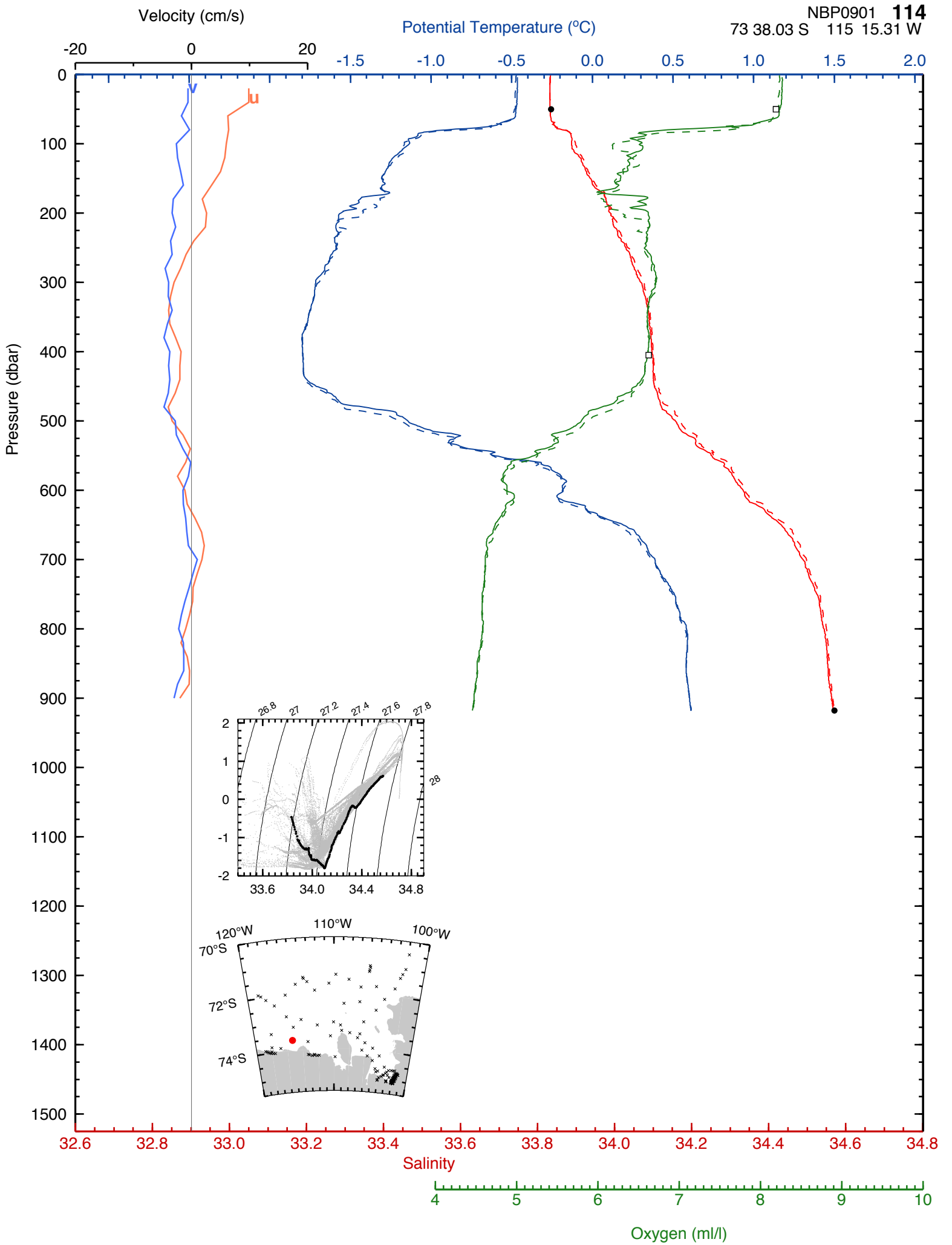
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
4	-0.465	-0.465	1.394	1.391	33.832	8.27	359	80.5	27.185	1027.2	87.2	0.003	1445.5			4
25	-0.466	-0.466	1.409	1.390	33.832	8.27	359	80.7	27.186	1027.3	87.1	0.022	1445.8	0.099	94	25
50	-0.472	-0.474	1.421	1.383	33.833	8.24	358	81.0	27.187	1027.4	86.9	0.044	1446.2	0.083	99	50
75	-0.624	-0.626	1.289	1.232	33.846	7.70	335	82.0	27.204	1027.6	85.2	0.065	1445.9	0.064	96	74
100	-1.133	-1.135	0.802	0.727	33.898	6.52	283	91.3	27.265	1027.7	79.2	0.085	1444.0	0.065	112	99
125	-1.249	-1.252	0.706	0.612	33.921	6.37	277	94.8	27.288	1027.9	76.9	0.105	1443.9	0.060	112	124
150	-1.299	-1.302	0.676	0.563	33.941	6.28	273	95.6	27.305	1028.0	75.1	0.124	1444.1	0.047	111	148
175	-1.353	-1.357	0.643	0.511	33.973	6.44	280	95.6	27.333	1028.2	72.3	0.142	1444.3	0.037	136	173
200	-1.556	-1.561	0.459	0.308	33.992	6.62	288	95.2	27.355	1028.3	69.9	0.160	1443.7	0.041	143	198
225	-1.580	-1.585	0.455	0.285	34.011	6.61	287	95.2	27.371	1028.5	68.3	0.177	1444.0	0.036	143	222
250	-1.581	-1.587	0.474	0.286	34.035	6.57	286	95.7	27.391	1028.6	66.3	0.194	1444.5	0.035	181	247
275	-1.648	-1.654	0.427	0.220	34.055	6.69	291	96.4	27.409	1028.7	64.4	0.210	1444.6	0.043	200	272
300	-1.709	-1.716	0.386	0.160	34.075	6.71	292	96.4	27.427	1028.9	62.5	0.226	1444.7	0.049	215	297
325	-1.725	-1.732	0.390	0.145	34.086	6.64	288	96.7	27.436	1029.0	61.5	0.242	1445.1	0.054	222	321
350	-1.753	-1.761	0.381	0.117	34.093	6.61	287	96.8	27.442	1029.1	60.7	0.257	1445.4	0.052	228	346
375	-1.790	-1.799	0.363	0.080	34.097	6.63	288	96.9	27.447	1029.2	60.0	0.272	1445.6	0.054	216	371
400	-1.789	-1.798	0.383	0.082	34.100	6.62	288	97.0	27.449	1029.4	59.7	0.287	1446.0	0.044	207	395
425	-1.782	-1.792	0.408	0.088	34.103	6.58	286	97.1	27.451	1029.5	59.3	0.302	1446.5	0.044	207	420
450	-1.699	-1.710	0.511	0.172	34.111	6.46	281	97.2	27.456	1029.6	58.8	0.317	1447.3	0.044	210	445
475	-1.542	-1.554	0.688	0.330	34.127	6.18	269	97.0	27.464	1029.7	58.2	0.331	1448.5	0.055	218	469
500	-1.129	-1.143	1.122	0.746	34.170	5.79	252	97.1	27.486	1029.9	56.6	0.346	1450.9	0.049	227	494
550	-0.586	-0.605	1.708	1.294	34.261	5.21	226	96.9	27.539	1030.2	52.3	0.373	1454.4	0.014	201	543
600	-0.160	-0.183	2.177	1.725	34.340	4.88	212	96.9	27.583	1030.4	48.8	0.398	1457.3	0.021	231	593
650	0.221	0.193	2.601	2.111	34.444	4.73	206	97.0	27.647	1030.7	43.4	0.421	1460.0	0.013	146	642
700	0.419	0.388	2.840	2.313	34.498	4.61	201	97.1	27.680	1031.0	40.8	0.442	1461.8	0.022	79	691
750	0.542	0.507	3.002	2.437	34.532	4.58	199	97.1	27.700	1031.2	39.2	0.462	1463.3	0.005	144	741
800	0.621	0.583	3.119	2.517	34.550	4.58	199	97.2	27.710	1031.5	38.5	0.482	1464.5	0.021	197	790
850	0.622	0.581	3.159	2.519	34.557	4.52	196	97.1	27.716	1031.7	38.0	0.501	1465.3	0.015	209	839
900	0.645	0.602	3.220	2.543	34.567	4.47	194	97.0	27.722	1032.0	37.5	0.520	1466.2	0.029	200	888
918	0.653	0.609	3.242	2.551	34.569	4.46	194	97.1	27.723	1032.0	37.5	0.526	1466.6			906

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	114B	2009/02/03	07:23	-73.6335	-115.2549	918	9	915	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
50	-0.487	-0.488	33.834	27.188	8.18	356	33.835	8.19	356			5	50
405	-1.786	-1.795	34.100	27.449	6.60	287		6.62	288			3	400
918	0.656	0.612	34.570	27.724	4.46	194	34.571					1	906

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	114U	2009/02/03	07:43	-73.6334	-115.2548	918	9	915	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.473	-0.473	1.383	1.382	33.834	8.23	358	27.187	1027.2	87.1	0.001	1445.4	1
25	-0.477	-0.478	1.397	1.378	33.832	8.23	358	27.186	1027.3	87.1	0.022	1445.8	25
50	-0.479	-0.481	1.414	1.376	33.833	8.21	357	27.186	1027.4	87.0	0.044	1446.2	50
75	-0.640	-0.642	1.273	1.216	33.846	7.56	329	27.204	1027.6	85.2	0.065	1445.8	74
100	-1.164	-1.166	0.770	0.695	33.888	6.19	269	27.258	1027.7	79.8	0.085	1443.8	99
125	-1.230	-1.233	0.724	0.630	33.914	6.48	282	27.281	1027.9	77.5	0.105	1444.0	124
150	-1.303	-1.306	0.672	0.559	33.937	6.24	271	27.303	1028.0	75.3	0.124	1444.1	148
175	-1.272	-1.276	0.723	0.591	33.974	5.98	260	27.331	1028.2	72.5	0.143	1444.7	173
200	-1.419	-1.424	0.596	0.445	33.989	6.31	274	27.348	1028.3	70.7	0.161	1444.4	198
225	-1.517	-1.522	0.518	0.349	34.007	6.49	282	27.366	1028.4	68.8	0.178	1444.3	222
250	-1.584	-1.589	0.471	0.283	34.030	6.58	286	27.387	1028.6	66.7	0.195	1444.5	247
275	-1.624	-1.630	0.451	0.244	34.047	6.66	290	27.402	1028.7	65.1	0.212	1444.7	272
300	-1.690	-1.697	0.404	0.178	34.068	6.71	292	27.421	1028.9	63.1	0.228	1444.8	297
325	-1.722	-1.729	0.392	0.148	34.081	6.64	289	27.432	1029.0	61.8	0.243	1445.1	321
350	-1.754	-1.761	0.380	0.116	34.089	6.60	287	27.439	1029.1	61.0	0.258	1445.4	346
375	-1.785	-1.794	0.368	0.085	34.094	6.62	288	27.444	1029.2	60.3	0.274	1445.6	371
400	-1.787	-1.796	0.384	0.083	34.097	6.62	288	27.447	1029.4	59.9	0.289	1446.0	395
425	-1.782	-1.792	0.409	0.089	34.100	6.58	286	27.449	1029.5	59.5	0.304	1446.5	420
450	-1.729	-1.739	0.481	0.142	34.104	6.51	283	27.451	1029.6	59.3	0.318	1447.1	445
475	-1.562	-1.574	0.667	0.310	34.119	6.24	271	27.458	1029.7	58.7	0.333	1448.4	469
500	-1.173	-1.188	1.077	0.701	34.158	5.86	255	27.478	1029.9	57.3	0.348	1450.7	494
550	-0.600	-0.618	1.694	1.280	34.252	5.26	228	27.532	1030.1	53.0	0.375	1454.3	543
600	-0.163	-0.186	2.173	1.721	34.334	4.86	211	27.578	1030.4	49.2	0.401	1457.3	593
650	0.187	0.160	2.566	2.077	34.433	4.77	207	27.640	1030.7	44.1	0.424	1459.9	642
700	0.405	0.374	2.825	2.298	34.489	4.62	201	27.673	1031.0	41.4	0.446	1461.8	691
750	0.533	0.498	2.993	2.428	34.525	4.60	200	27.695	1031.2	39.6	0.466	1463.2	741
800	0.611	0.573	3.109	2.507	34.544	4.59	199	27.706	1031.5	38.9	0.486	1464.4	790
850	0.623	0.582	3.160	2.520	34.553	4.53	197	27.712	1031.7	38.3	0.505	1465.3	839
900	0.644	0.601	3.219	2.542	34.563	4.48	195	27.720	1031.9	37.8	0.524	1466.2	888
918	0.653	0.609	3.242	2.551	34.569	4.46	194	27.723	1032.0	37.5	0.531	1466.6	906


NBP0901 114
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Velocity (cm/s)
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0
20
v
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Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**115D**	2009/02/03	11:51	-73.8767	-116.8285	1142	9	1137	7	17.8	92	-1.4	999.6

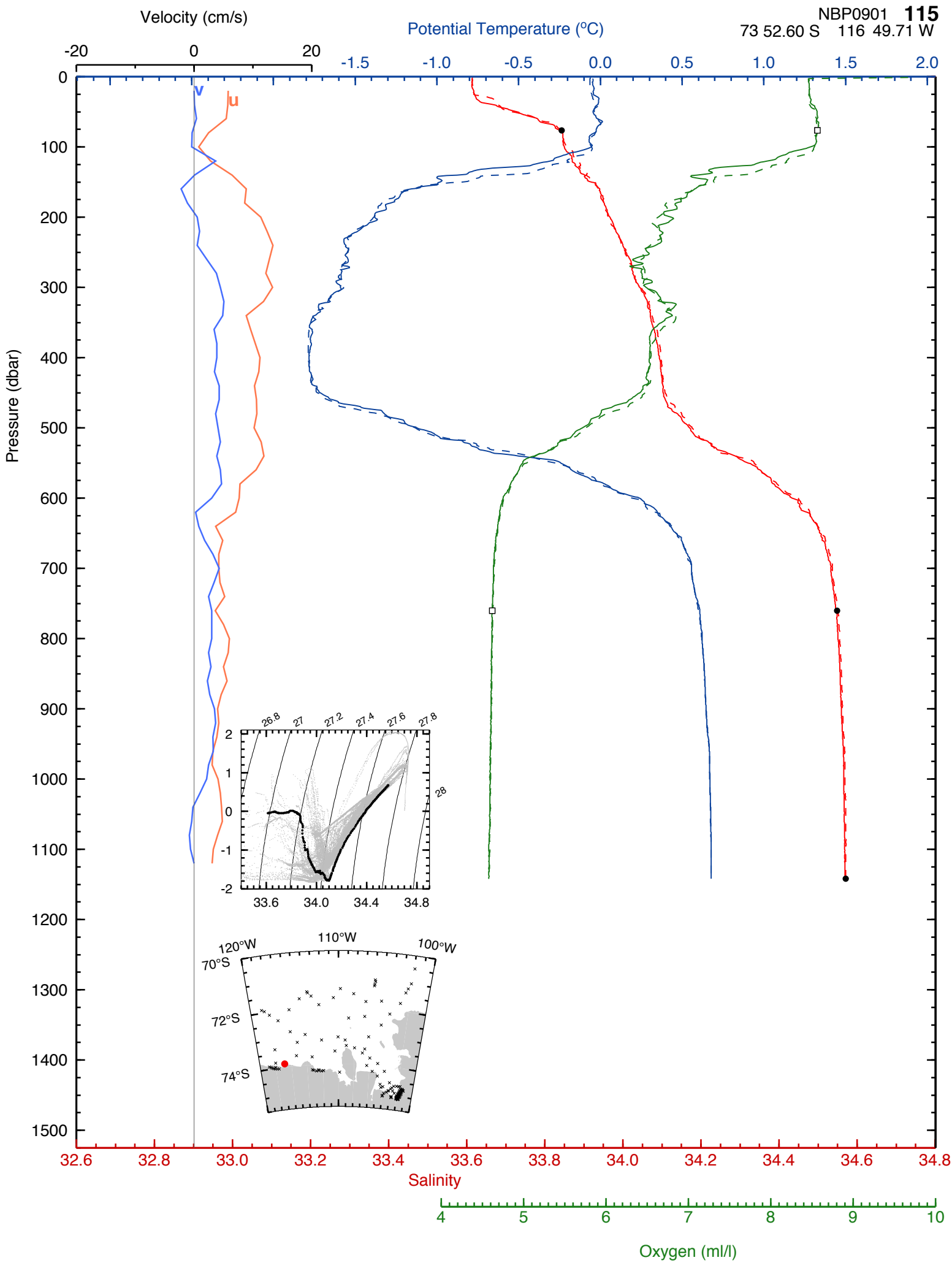
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
3	-0.046	-0.046	1.799	1.797	33.613	8.45	368	81.4	26.989	1027.0	105.8	0.003	1447.1			3
25	-0.042	-0.043	1.820	1.801	33.618	8.47	368	81.4	26.992	1027.1	105.4	0.026	1447.5	0.058	90	25
50	-0.044	-0.046	1.842	1.805	33.718	8.56	372	82.5	27.074	1027.3	97.7	0.052	1448.0	0.056	87	50
75	-0.022	-0.025	1.890	1.834	33.840	8.58	373	82.4	27.171	1027.5	88.5	0.075	1448.7	0.034	94	74
100	-0.052	-0.055	1.880	1.805	33.857	8.48	369	83.0	27.186	1027.7	87.0	0.097	1449.0	0.010	116	99
125	-0.409	-0.412	1.544	1.450	33.891	7.80	339	85.3	27.231	1027.8	82.6	0.118	1447.8	0.050	47	124
150	-0.979	-0.983	0.995	0.882	33.929	7.22	314	89.2	27.285	1028.0	77.2	0.138	1445.6	0.076	95	148
175	-1.247	-1.252	0.746	0.615	33.946	6.90	300	90.5	27.308	1028.1	74.7	0.157	1444.7	0.089	100	173
200	-1.377	-1.382	0.636	0.486	33.963	6.79	295	92.4	27.326	1028.3	72.8	0.175	1444.5	0.110	89	198
225	-1.518	-1.523	0.516	0.347	33.988	6.66	290	94.3	27.351	1028.4	70.3	0.193	1444.3	0.125	86	222
250	-1.543	-1.548	0.511	0.323	34.006	6.51	283	94.9	27.366	1028.6	68.6	0.210	1444.6	0.133	85	247
275	-1.581	-1.587	0.493	0.286	34.026	6.43	280	95.8	27.384	1028.7	66.8	0.227	1444.9	0.129	76	272
300	-1.583	-1.590	0.510	0.285	34.045	6.49	282	96.1	27.399	1028.8	65.2	0.244	1445.3	0.138	72	297
325	-1.716	-1.723	0.397	0.153	34.068	6.85	298	96.3	27.421	1029.0	62.8	0.260	1445.1	0.127	66	321
350	-1.761	-1.769	0.372	0.109	34.080	6.67	290	96.5	27.432	1029.1	61.6	0.275	1445.3	0.102	64	346
375	-1.766	-1.774	0.387	0.104	34.092	6.53	284	96.8	27.442	1029.2	60.6	0.291	1445.7	0.107	70	371
400	-1.775	-1.784	0.397	0.096	34.097	6.53	284	96.9	27.447	1029.4	59.9	0.306	1446.1	0.117	70	395
425	-1.758	-1.768	0.433	0.113	34.102	6.50	282	97.0	27.450	1029.5	59.5	0.321	1446.6	0.115	72	420
450	-1.703	-1.714	0.507	0.168	34.108	6.41	279	97.0	27.454	1029.6	59.1	0.336	1447.3	0.113	67	445
475	-1.331	-1.344	0.900	0.543	34.149	5.95	258	97.1	27.476	1029.7	57.4	0.350	1449.5	0.114	69	469
500	-1.108	-1.123	1.144	0.767	34.177	5.71	248	97.1	27.491	1029.9	56.2	0.364	1451.0	0.111	69	494
550	-0.221	-0.241	2.078	1.664	34.336	4.99	217	97.0	27.583	1030.2	48.8	0.391	1456.2	0.123	71	543
600	0.264	0.239	2.607	2.155	34.449	4.75	206	97.2	27.649	1030.5	43.4	0.414	1459.4	0.086	65	593
650	0.492	0.463	2.876	2.387	34.510	4.67	203	97.3	27.685	1030.8	40.4	0.435	1461.4	0.039	77	642
700	0.590	0.557	3.012	2.485	34.537	4.63	201	97.3	27.701	1031.0	39.2	0.455	1462.7	0.057	48	691
750	0.631	0.596	3.092	2.527	34.548	4.62	201	97.3	27.708	1031.2	38.6	0.474	1463.7	0.058	64	741
800	0.659	0.621	3.158	2.556	34.556	4.61	201	97.4	27.712	1031.5	38.4	0.494	1464.7	0.062	61	790
850	0.678	0.637	3.215	2.575	34.560	4.61	200	97.3	27.715	1031.7	38.2	0.513	1465.6	0.058	60	839
900	0.690	0.646	3.265	2.587	34.563	4.60	200	97.3	27.716	1031.9	38.2	0.532	1466.5	0.053	55	888
950	0.711	0.664	3.324	2.609	34.568	4.60	200	97.4	27.719	1032.2	38.0	0.551	1467.4	0.051	50	938
1000	0.720	0.670	3.370	2.617	34.569	4.59	200	97.3	27.720	1032.4	38.1	0.570	1468.2	0.042	55	987
1142	0.736	0.677	3.493	2.633	34.570	4.58	199	97.2	27.720	1033.1	38.3	0.624	1470.7			1127

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	115B	2009/02/03	12:19	-73.8773	-116.8280	1142	9	1137	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.064	-0.064	33.614	26.991	8.46	368				2036.1		13	10
76	-0.021	-0.024	33.839	27.170	8.58	373	33.844	8.57	373	2080.9		12	76
245	-1.533	-1.539	34.004	27.364	6.46	281				2211.9		9	242
332	-1.690	-1.698	34.069	27.421	6.68	290				2203.9		7	328
406	-1.776	-1.785	34.096	27.446	6.53	284				2214.5		6	401
760	0.636	0.600	34.547	27.707	4.62	201	34.549	4.62	201	2253.2		4	750
1142	0.736	0.677	34.570	27.720	4.58	199	34.571			2250.8		1	1126

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	115U	2009/02/03	12:49	-73.8760	-116.8296	1142	9	1137	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.061	-0.061	1.783	1.782	33.615	9.66	420	26.991	1027.0	105.6	0.001	1447.0	1
25	-0.052	-0.053	1.810	1.791	33.621	8.46	368	26.995	1027.1	105.2	0.026	1447.5	25
50	-0.037	-0.039	1.850	1.812	33.731	8.55	372	27.083	1027.3	96.8	0.052	1448.1	50
75	-0.015	-0.018	1.897	1.840	33.833	8.58	373	27.165	1027.5	89.0	0.075	1448.7	74
100	-0.050	-0.054	1.882	1.806	33.850	8.53	371	27.180	1027.7	87.5	0.097	1449.0	99
125	-0.291	-0.295	1.661	1.567	33.879	8.07	351	27.215	1027.8	84.1	0.119	1448.3	124
150	-0.851	-0.855	1.122	1.010	33.921	7.31	318	27.273	1028.0	78.3	0.139	1446.2	148
175	-1.302	-1.306	0.692	0.560	33.950	6.85	298	27.313	1028.2	74.2	0.158	1444.5	173
200	-1.382	-1.386	0.632	0.481	33.967	6.63	288	27.329	1028.3	72.5	0.176	1444.5	198
225	-1.521	-1.526	0.513	0.343	33.988	6.66	289	27.351	1028.4	70.2	0.194	1444.3	222
250	-1.539	-1.545	0.514	0.326	34.008	6.43	280	27.368	1028.6	68.5	0.211	1444.7	247
275	-1.588	-1.594	0.486	0.279	34.024	6.47	281	27.381	1028.7	67.0	0.228	1444.8	272
300	-1.563	-1.570	0.530	0.304	34.043	6.48	282	27.397	1028.8	65.4	0.245	1445.4	297
325	-1.691	-1.699	0.422	0.177	34.064	6.76	294	27.417	1029.0	63.3	0.261	1445.2	321
350	-1.764	-1.772	0.368	0.105	34.074	6.82	296	27.427	1029.1	62.1	0.277	1445.3	346
375	-1.776	-1.784	0.376	0.094	34.085	6.59	287	27.437	1029.2	61.0	0.292	1445.7	371
400	-1.779	-1.788	0.392	0.091	34.093	6.54	284	27.444	1029.4	60.2	0.307	1446.1	395
425	-1.757	-1.767	0.433	0.113	34.099	6.50	283	27.448	1029.5	59.7	0.322	1446.6	420
450	-1.719	-1.730	0.490	0.151	34.103	6.48	281	27.450	1029.6	59.4	0.337	1447.2	445
475	-1.453	-1.465	0.777	0.420	34.126	6.13	267	27.460	1029.7	58.6	0.352	1448.9	469
500	-1.118	-1.133	1.133	0.757	34.171	5.76	250	27.486	1029.9	56.6	0.366	1451.0	494
550	-0.251	-0.272	2.047	1.632	34.322	5.03	219	27.573	1030.2	49.7	0.393	1456.0	543
600	0.217	0.191	2.558	2.106	34.433	4.78	208	27.638	1030.5	44.3	0.416	1459.2	593
650	0.493	0.464	2.876	2.387	34.505	4.68	203	27.681	1030.7	40.8	0.438	1461.3	642
700	0.589	0.557	3.012	2.484	34.533	4.64	202	27.698	1031.0	39.5	0.458	1462.7	691
750	0.627	0.592	3.088	2.523	34.544	4.63	201	27.704	1031.2	39.0	0.477	1463.7	741
800	0.657	0.619	3.156	2.554	34.551	4.62	201	27.709	1031.5	38.7	0.497	1464.6	790
850	0.677	0.636	3.214	2.574	34.556	4.61	200	27.712	1031.7	38.5	0.516	1465.6	839
900	0.691	0.647	3.265	2.588	34.560	4.61	200	27.714	1031.9	38.4	0.535	1466.5	888
950	0.710	0.663	3.322	2.607	34.564	4.60	200	27.716	1032.2	38.3	0.554	1467.4	938
1000	0.719	0.669	3.369	2.616	34.566	4.60	200	27.718	1032.4	38.3	0.573	1468.2	987
1142	0.736	0.677	3.493	2.633	34.570	4.58	199	27.720	1033.1	38.3	0.628	1470.7	1127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Potential Temperature (°C)
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Pressure (dbar)
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200
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400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
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0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**116D**	2009/02/03	15:13	-73.8166	-117.9851	1209	8	1201	4	14.6	77	-1.7	998.2

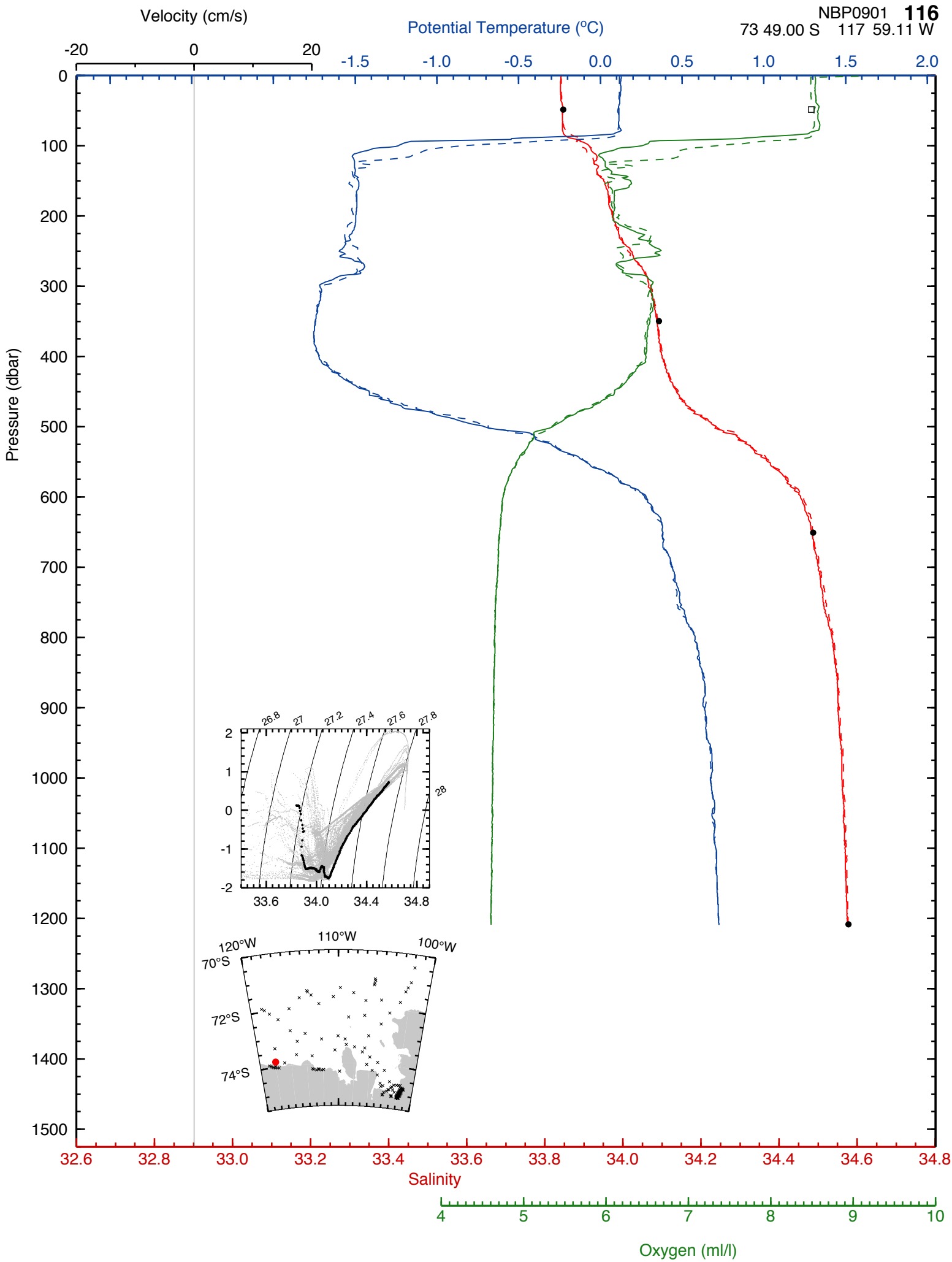
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	0.126	0.126	1.983	1.982	33.842	8.54	372	88.7	27.165	1027.2	89.1	0.001	1448.2			1
25	0.124	0.123	1.999	1.980	33.842	8.54	371	88.8	27.165	1027.3	89.1	0.022	1448.6			25
50	0.115	0.113	2.008	1.971	33.845	8.57	373	88.9	27.168	1027.4	88.8	0.045	1448.9			50
75	0.122	0.119	2.034	1.978	33.850	8.59	373	89.5	27.172	1027.5	88.4	0.067	1449.4			74
100	-1.234	-1.236	0.701	0.625	33.893	6.44	280	93.3	27.264	1027.7	79.2	0.088	1443.5			99
125	-1.502	-1.504	0.453	0.359	33.926	5.99	260	95.6	27.300	1027.9	75.6	0.107	1442.7			124
150	-1.476	-1.480	0.500	0.387	33.961	6.30	274	95.4	27.327	1028.0	72.9	0.126	1443.3			148
175	-1.486	-1.490	0.509	0.377	33.967	6.10	265	95.9	27.332	1028.2	72.3	0.144	1443.6			173
200	-1.492	-1.496	0.522	0.372	33.973	6.09	265	96.0	27.338	1028.3	71.6	0.162	1444.0			198
225	-1.517	-1.522	0.517	0.348	33.991	6.42	279	95.7	27.353	1028.4	70.0	0.179	1444.3			222
250	-1.593	-1.598	0.461	0.273	34.013	6.65	289	95.3	27.373	1028.6	67.9	0.197	1444.4			247
275	-1.442	-1.449	0.633	0.425	34.049	6.16	268	96.7	27.398	1028.7	65.6	0.213	1445.6			272
300	-1.710	-1.716	0.385	0.159	34.071	6.55	285	96.7	27.424	1028.9	62.8	0.229	1444.7			297
325	-1.714	-1.721	0.401	0.156	34.081	6.58	286	96.8	27.432	1029.0	61.9	0.245	1445.1			321
350	-1.735	-1.743	0.399	0.135	34.089	6.53	284	96.9	27.439	1029.1	61.0	0.260	1445.5			346
375	-1.744	-1.752	0.409	0.127	34.095	6.50	282	97.1	27.444	1029.2	60.4	0.275	1445.8			371
400	-1.712	-1.722	0.460	0.159	34.103	6.48	282	97.0	27.450	1029.4	59.7	0.291	1446.4			395
425	-1.589	-1.599	0.603	0.283	34.119	6.32	275	96.9	27.459	1029.5	58.9	0.305	1447.4			420
450	-1.403	-1.415	0.809	0.470	34.141	6.10	265	97.0	27.472	1029.6	57.8	0.320	1448.8			445
475	-1.160	-1.173	1.073	0.715	34.172	5.75	250	96.9	27.489	1029.8	56.4	0.334	1450.4			469
500	-0.692	-0.709	1.563	1.186	34.239	5.35	233	97.0	27.525	1029.9	53.6	0.348	1453.1			494
550	-0.068	-0.090	2.232	1.818	34.375	4.92	214	97.0	27.606	1030.2	46.8	0.373	1457.0			543
600	0.305	0.280	2.648	2.197	34.462	4.75	206	97.1	27.656	1030.5	42.7	0.395	1459.6			593
650	0.410	0.381	2.792	2.303	34.487	4.71	205	97.2	27.671	1030.7	41.5	0.416	1461.0			642
700	0.468	0.437	2.889	2.362	34.504	4.69	204	97.2	27.681	1031.0	40.7	0.437	1462.1			691
750	0.520	0.486	2.980	2.415	34.519	4.66	202	97.2	27.691	1031.2	40.0	0.457	1463.1			741
800	0.617	0.579	3.116	2.513	34.539	4.65	202	97.3	27.701	1031.5	39.3	0.477	1464.4			790
850	0.663	0.622	3.199	2.559	34.550	4.64	202	97.3	27.707	1031.7	38.9	0.496	1465.5			839
900	0.680	0.636	3.254	2.576	34.554	4.64	202	97.4	27.710	1031.9	38.7	0.516	1466.4			888
950	0.710	0.663	3.322	2.607	34.561	4.63	201	97.4	27.714	1032.2	38.5	0.535	1467.4			938
1000	0.726	0.676	3.377	2.623	34.564	4.63	201	97.4	27.716	1032.4	38.5	0.554	1468.3			987
1200	0.785	0.723	3.587	2.683	34.577	4.60	200	97.3	27.723	1033.3	38.3	0.631	1471.9			1184
1209	0.787	0.724	3.595	2.685	34.576	4.60	200	97.2	27.722	1033.4	38.4	0.634	1472.0			1193

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	116B	2009/02/03	15:43	-73.8172	-117.9847	1208	8	1201	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
48	0.108	0.107	33.846	27.169	8.53	371	33.847	8.49	369			7	48
350	-1.736	-1.744	34.088	27.438	6.50	282	34.092					6	346
651	0.410	0.381	34.485	27.670	4.71	204	34.488					3	643
1208	0.787	0.724	34.577	27.723	4.60	200	34.578					1	1192

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	116U	2009/02/03	16:12	-73.8168	-117.9851	1208	8	1201	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.118	0.118	1.975	1.974	33.842	9.07	394	27.166	1027.2	89.1	0.001	1448.2	1
25	0.116	0.115	1.990	1.972	33.841	8.49	369	27.165	1027.3	89.1	0.022	1448.5	25
50	0.108	0.106	2.002	1.964	33.845	8.52	371	27.168	1027.4	88.8	0.045	1448.9	50
75	0.112	0.109	2.024	1.968	33.845	8.52	370	27.168	1027.5	88.7	0.067	1449.3	74
100	-0.832	-0.834	1.104	1.028	33.912	7.34	319	27.265	1027.7	79.2	0.088	1445.4	99
125	-1.473	-1.476	0.481	0.387	33.926	5.99	260	27.299	1027.9	75.7	0.107	1442.8	124
150	-1.512	-1.516	0.463	0.350	33.951	6.12	266	27.320	1028.0	73.6	0.126	1443.1	148
175	-1.488	-1.492	0.506	0.375	33.964	6.07	264	27.330	1028.2	72.5	0.144	1443.6	173
200	-1.506	-1.510	0.509	0.358	33.974	6.15	267	27.339	1028.3	71.5	0.162	1444.0	198
225	-1.560	-1.565	0.473	0.304	33.989	6.55	285	27.353	1028.4	70.0	0.180	1444.1	222
250	-1.480	-1.486	0.574	0.386	34.022	6.14	267	27.377	1028.6	67.7	0.197	1445.0	247
275	-1.483	-1.489	0.592	0.385	34.049	6.21	270	27.399	1028.7	65.4	0.214	1445.4	272
300	-1.693	-1.700	0.402	0.176	34.065	6.54	284	27.418	1028.9	63.3	0.230	1444.8	297
325	-1.711	-1.718	0.403	0.159	34.080	6.55	285	27.431	1029.0	61.9	0.246	1445.2	321
350	-1.738	-1.745	0.396	0.132	34.088	6.50	282	27.438	1029.1	61.1	0.261	1445.4	346
375	-1.743	-1.751	0.410	0.128	34.092	6.47	281	27.442	1029.2	60.6	0.276	1445.8	371
400	-1.709	-1.718	0.463	0.162	34.101	6.47	281	27.448	1029.4	59.9	0.291	1446.4	395
425	-1.573	-1.583	0.619	0.299	34.117	6.30	274	27.457	1029.5	59.1	0.306	1447.5	420
450	-1.405	-1.417	0.806	0.468	34.138	6.09	265	27.469	1029.6	58.1	0.321	1448.7	445
475	-1.109	-1.123	1.123	0.765	34.172	5.74	250	27.486	1029.8	56.7	0.335	1450.6	469
500	-0.668	-0.685	1.587	1.210	34.238	5.34	232	27.523	1029.9	53.8	0.349	1453.2	494
550	-0.060	-0.081	2.241	1.827	34.373	4.92	214	27.604	1030.2	47.0	0.374	1457.0	543
600	0.296	0.271	2.639	2.187	34.456	4.75	207	27.652	1030.5	43.1	0.397	1459.6	593
650	0.409	0.380	2.791	2.301	34.485	4.71	204	27.669	1030.7	41.7	0.418	1460.9	642
700	0.472	0.441	2.893	2.366	34.501	4.69	204	27.679	1031.0	40.9	0.438	1462.1	691
750	0.501	0.467	2.960	2.396	34.513	4.65	202	27.688	1031.2	40.3	0.459	1463.0	741
800	0.616	0.578	3.114	2.512	34.536	4.65	202	27.699	1031.5	39.5	0.479	1464.4	790
850	0.668	0.627	3.204	2.564	34.547	4.64	202	27.705	1031.7	39.1	0.498	1465.5	839
900	0.682	0.638	3.256	2.578	34.551	4.64	201	27.708	1031.9	39.0	0.518	1466.4	888
950	0.708	0.661	3.320	2.605	34.558	4.63	201	27.712	1032.2	38.8	0.537	1467.3	938
1000	0.723	0.673	3.373	2.620	34.561	4.63	201	27.714	1032.4	38.7	0.557	1468.2	987
1200	0.784	0.722	3.586	2.682	34.574	4.60	200	27.721	1033.3	38.5	0.634	1471.9	1184
1209	0.787	0.724	3.595	2.685	34.576	4.60	200	27.722	1033.4	38.4	0.637	1472.0	1193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Velocity (cm/s)
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Potential Temperature (°C)
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Pressure (dbar)
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34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**117D**	2009/02/03	21:54	-73.9613	-118.0451	1274	13	1270	5	6.9	137	-1.9	996.6

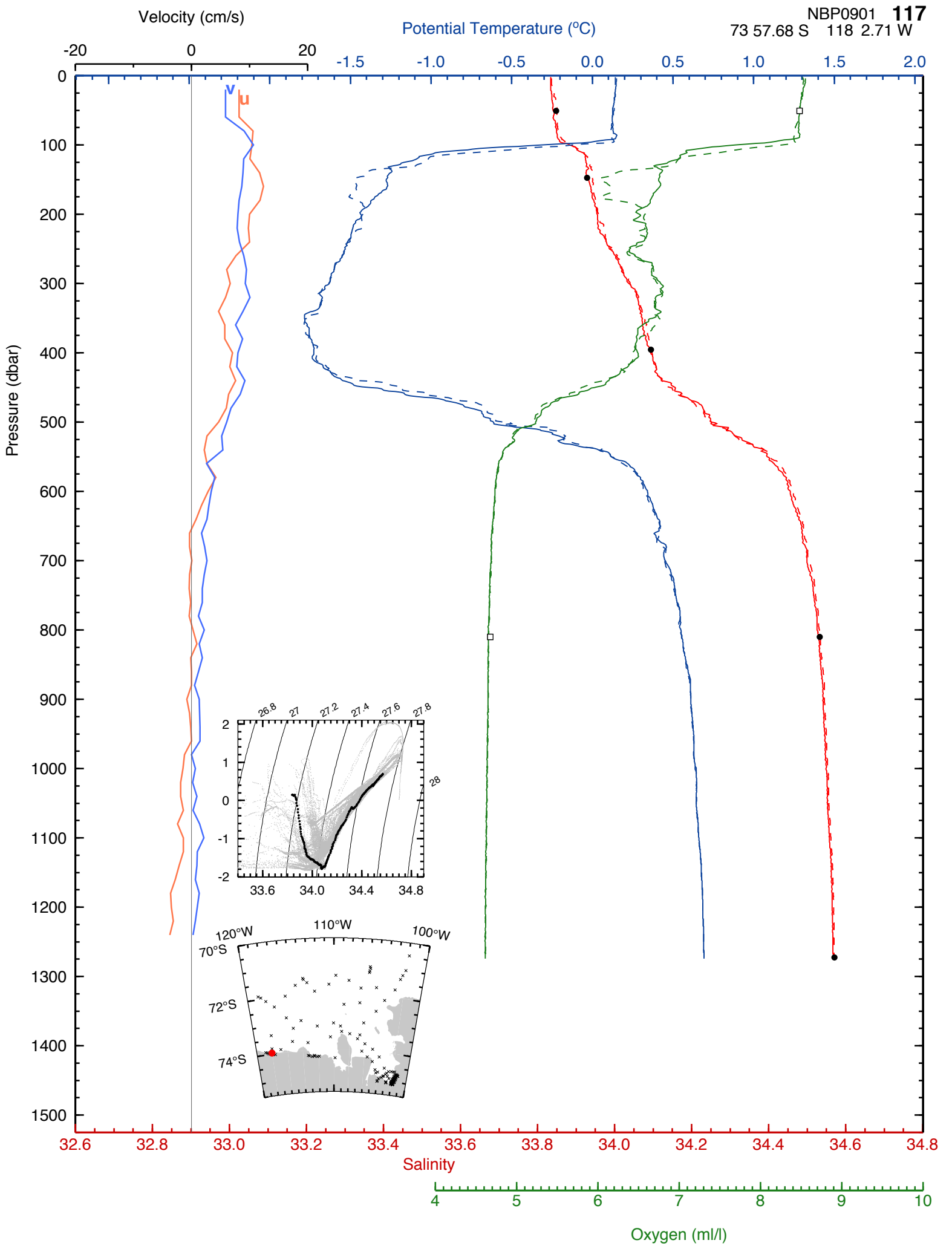
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
4	0.149	0.149	2.008	2.005	33.836	8.55	372	90.4	27.159	1027.2	89.7	0.004	1448.3			4
25	0.141	0.140	2.016	1.997	33.844	8.52	370	90.6	27.166	1027.3	89.1	0.022	1448.7	0.101	54	25
50	0.127	0.125	2.021	1.983	33.851	8.48	369	90.4	27.172	1027.4	88.4	0.045	1449.0	0.101	54	50
75	0.129	0.126	2.042	1.985	33.852	8.47	368	90.2	27.173	1027.5	88.3	0.067	1449.4	0.129	51	74
100	-0.308	-0.311	1.626	1.550	33.886	7.70	335	92.1	27.222	1027.7	83.5	0.088	1447.8	0.148	44	99
125	-1.166	-1.169	0.789	0.695	33.935	6.86	298	90.5	27.297	1027.9	76.1	0.108	1444.3	0.137	49	124
150	-1.275	-1.279	0.700	0.587	33.944	6.75	293	91.1	27.307	1028.0	74.9	0.127	1444.2	0.149	54	148
175	-1.343	-1.347	0.651	0.519	33.949	6.67	290	92.2	27.314	1028.2	74.1	0.146	1444.3	0.146	55	173
200	-1.433	-1.437	0.581	0.430	33.958	6.51	283	94.0	27.323	1028.3	73.0	0.164	1444.3	0.130	52	198
225	-1.486	-1.491	0.547	0.377	33.975	6.60	287	94.9	27.339	1028.4	71.4	0.182	1444.5	0.127	51	222
250	-1.527	-1.532	0.526	0.338	33.989	6.39	278	95.2	27.352	1028.6	70.0	0.200	1444.7	0.126	47	247
275	-1.591	-1.598	0.482	0.275	34.017	6.68	290	95.7	27.376	1028.7	67.5	0.217	1444.8	0.115	36	272
300	-1.625	-1.632	0.468	0.242	34.040	6.77	294	95.9	27.396	1028.8	65.4	0.234	1445.1	0.115	35	297
325	-1.674	-1.681	0.439	0.195	34.064	6.71	292	96.3	27.417	1029.0	63.3	0.250	1445.3	0.116	30	321
350	-1.778	-1.786	0.355	0.091	34.077	6.67	290	96.9	27.430	1029.1	61.8	0.265	1445.2	0.099	31	346
375	-1.747	-1.755	0.406	0.123	34.087	6.48	282	97.0	27.437	1029.2	61.0	0.281	1445.8	0.100	35	371
400	-1.719	-1.728	0.453	0.152	34.094	6.49	282	96.9	27.442	1029.4	60.4	0.296	1446.3	0.106	40	395
425	-1.628	-1.638	0.564	0.244	34.113	6.29	274	96.8	27.455	1029.5	59.2	0.311	1447.2	0.102	40	420
450	-1.361	-1.373	0.851	0.512	34.146	5.95	259	96.8	27.474	1029.6	57.6	0.325	1449.0	0.116	39	445
475	-0.791	-0.806	1.443	1.086	34.210	5.41	235	96.9	27.505	1029.8	55.4	0.339	1452.1	0.099	39	469
500	-0.597	-0.614	1.659	1.282	34.251	5.24	228	96.9	27.530	1029.9	53.2	0.353	1453.5	0.081	39	494
550	0.140	0.117	2.442	2.028	34.402	4.82	210	97.1	27.617	1030.2	46.1	0.378	1458.0	0.054	26	543
600	0.367	0.341	2.711	2.259	34.463	4.73	206	97.2	27.654	1030.5	43.0	0.400	1459.9	0.050	43	593
650	0.451	0.422	2.833	2.344	34.491	4.70	204	97.3	27.672	1030.7	41.6	0.421	1461.1	0.027	51	642
700	0.484	0.452	2.905	2.378	34.505	4.69	204	97.3	27.681	1031.0	40.8	0.442	1462.1	0.025	153	691
750	0.550	0.516	3.010	2.445	34.522	4.67	203	97.3	27.691	1031.2	40.0	0.462	1463.3	0.019	348	741
800	0.586	0.548	3.084	2.481	34.532	4.65	202	97.3	27.697	1031.5	39.6	0.482	1464.3	0.018	176	790
850	0.626	0.586	3.162	2.522	34.540	4.65	202	97.3	27.702	1031.7	39.3	0.501	1465.3	0.019	344	839
900	0.653	0.610	3.227	2.549	34.545	4.65	202	97.4	27.704	1031.9	39.2	0.521	1466.3	0.009	139	888
950	0.674	0.628	3.286	2.571	34.550	4.64	202	97.4	27.707	1032.2	39.1	0.541	1467.2	0.015	355	938
1000	0.693	0.643	3.343	2.590	34.554	4.64	201	97.3	27.710	1032.4	39.0	0.560	1468.1	0.014	279	987
1200	0.747	0.685	3.548	2.644	34.569	4.62	201	97.3	27.719	1033.3	38.6	0.638	1471.7	0.038	289	1184
1274	0.758	0.691	3.614	2.655	34.568	4.62	201	97.2	27.718	1033.7	38.8	0.666	1473.0			1257

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	117B	2009/02/03	22:22	-73.9621	-118.0458	1272	13	1270	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
51	0.137	0.135	33.841	27.163	8.49	369	33.849	8.48	369			9	50
147	-1.490	-1.494	33.928	27.301	6.01	261	33.928					7	146
396	-1.702	-1.712	34.097	27.444	6.45	280	34.094					5	391
810	0.593	0.555	34.531	27.696	4.65	202	34.533	4.68	203			3	800
1272	0.758	0.691	34.569	27.718	4.62	201	34.571					1	1255

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	117U	2009/02/03	22:50	-73.9622	-118.0456	1272	13	1270	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	0.142	0.141	1.999	1.997	33.835	8.52	370	27.159	1027.2	89.7	0.002	1448.3	2
25	0.140	0.139	2.014	1.996	33.836	8.51	370	27.160	1027.3	89.6	0.022	1448.6	25
50	0.136	0.134	2.029	1.992	33.840	8.49	369	27.163	1027.4	89.2	0.045	1449.0	50
75	0.122	0.119	2.035	1.978	33.847	8.43	366	27.169	1027.5	88.7	0.067	1449.4	74
100	-0.124	-0.127	1.810	1.734	33.883	8.27	359	27.211	1027.7	84.6	0.089	1448.7	99
125	-1.034	-1.037	0.921	0.827	33.926	6.96	303	27.284	1027.9	77.3	0.109	1444.9	124
150	-1.474	-1.478	0.500	0.387	33.932	6.03	262	27.304	1028.0	75.1	0.128	1443.2	148
175	-1.505	-1.509	0.489	0.357	33.942	6.04	263	27.313	1028.2	74.1	0.147	1443.5	173
200	-1.419	-1.423	0.594	0.444	33.955	6.58	286	27.321	1028.3	73.3	0.165	1444.3	198
225	-1.463	-1.468	0.569	0.400	33.962	6.49	282	27.328	1028.4	72.4	0.183	1444.5	222
250	-1.527	-1.533	0.525	0.337	33.987	6.44	280	27.350	1028.6	70.2	0.201	1444.7	247
275	-1.592	-1.599	0.481	0.274	34.015	6.68	290	27.375	1028.7	67.6	0.218	1444.8	272
300	-1.630	-1.637	0.463	0.238	34.038	6.73	293	27.394	1028.8	65.6	0.235	1445.1	297
325	-1.670	-1.677	0.443	0.199	34.062	6.70	291	27.415	1029.0	63.5	0.251	1445.3	321
350	-1.759	-1.767	0.373	0.110	34.072	6.75	294	27.425	1029.1	62.3	0.267	1445.3	346
375	-1.754	-1.763	0.397	0.115	34.079	6.58	286	27.431	1029.2	61.5	0.282	1445.8	371
400	-1.699	-1.708	0.473	0.171	34.097	6.43	279	27.445	1029.4	60.2	0.298	1446.5	395
425	-1.643	-1.653	0.548	0.228	34.108	6.30	274	27.451	1029.5	59.5	0.312	1447.1	420
450	-1.161	-1.174	1.052	0.713	34.158	5.80	252	27.477	1029.6	57.6	0.327	1449.9	445
475	-0.676	-0.691	1.560	1.202	34.224	5.33	231	27.512	1029.8	54.9	0.341	1452.7	469
500	-0.535	-0.553	1.720	1.344	34.251	5.22	227	27.528	1029.9	53.5	0.355	1453.8	494
550	0.144	0.122	2.446	2.032	34.397	4.82	210	27.613	1030.2	46.5	0.380	1458.0	543
600	0.357	0.331	2.700	2.248	34.456	4.74	206	27.649	1030.5	43.5	0.402	1459.8	593
650	0.448	0.419	2.831	2.341	34.486	4.71	204	27.669	1030.7	41.9	0.423	1461.1	642
700	0.481	0.450	2.902	2.375	34.499	4.69	204	27.677	1031.0	41.2	0.444	1462.1	691
750	0.547	0.513	3.007	2.442	34.517	4.67	203	27.687	1031.2	40.4	0.465	1463.3	741
800	0.578	0.540	3.075	2.473	34.526	4.66	203	27.693	1031.5	40.0	0.485	1464.2	790
850	0.621	0.580	3.157	2.517	34.535	4.65	202	27.698	1031.7	39.7	0.504	1465.3	839
900	0.653	0.610	3.227	2.549	34.541	4.65	202	27.701	1031.9	39.5	0.524	1466.2	888
950	0.672	0.625	3.284	2.568	34.546	4.65	202	27.704	1032.2	39.3	0.544	1467.2	938
1000	0.685	0.636	3.335	2.582	34.549	4.64	202	27.706	1032.4	39.3	0.564	1468.1	987
1200	0.746	0.684	3.547	2.644	34.565	4.62	201	27.716	1033.3	38.8	0.642	1471.7	1184
1274	0.758	0.691	3.614	2.655	34.568	4.62	201	27.718	1033.7	38.8	0.670	1473.0	1257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Potential Temperature (°C)
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Pressure (dbar)
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600
700
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1000
1100
1200
1300
1400
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26.8
27
27.2
27.4
27.6
27.8
28
2
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-1
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33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
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34.0
34.2
34.4
34.6
34.8
Salinity
4
5
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7
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**118D**	2009/02/04	13:27	-73.7132	-113.2891	840	6	836	8	14.9	133	-2.2	991.1

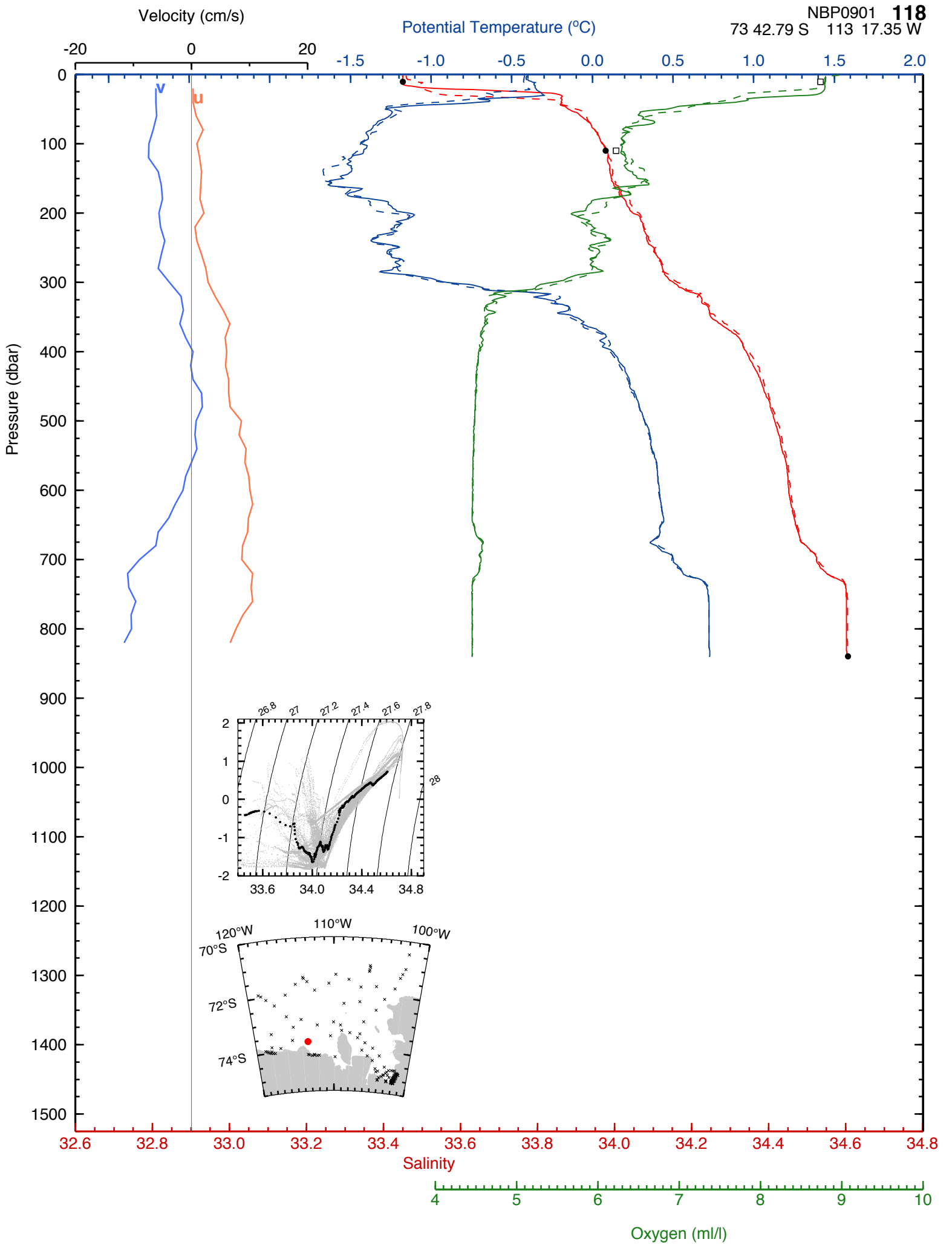
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.406	-0.406	1.429	1.428	33.457	8.80	383	74.6	26.880	1026.9	116.2	0.002	1445.2			2
25	-0.326	-0.327	1.531	1.512	33.525	8.76	381	74.1	26.931	1027.0	111.3	0.028	1446.1	0.061	177	25
50	-1.283	-1.284	0.614	0.577	33.901	6.83	297	84.2	27.273	1027.5	78.7	0.051	1442.5	0.061	175	50
75	-1.359	-1.361	0.559	0.503	33.942	6.42	279	87.8	27.308	1027.7	75.2	0.071	1442.6	0.067	166	74
100	-1.428	-1.430	0.511	0.436	33.968	6.30	274	94.3	27.332	1027.8	72.8	0.089	1442.7	0.074	172	99
125	-1.495	-1.498	0.464	0.370	33.991	6.34	275	94.6	27.352	1028.0	70.7	0.107	1442.8	0.072	168	124
150	-1.542	-1.546	0.436	0.323	33.999	6.50	282	95.3	27.360	1028.1	69.7	0.125	1443.0	0.057	163	148
175	-1.512	-1.516	0.486	0.354	34.020	6.33	275	95.5	27.376	1028.2	68.1	0.142	1443.6	0.053	163	173
200	-1.134	-1.140	0.885	0.734	34.063	5.68	247	96.2	27.399	1028.4	66.0	0.159	1445.8	0.059	160	198
225	-1.219	-1.225	0.820	0.651	34.085	5.92	257	96.5	27.420	1028.5	64.0	0.175	1445.9	0.052	173	222
250	-1.199	-1.206	0.860	0.672	34.106	5.95	259	96.7	27.436	1028.6	62.3	0.191	1446.4	0.050	166	247
275	-1.189	-1.196	0.890	0.683	34.126	5.91	257	96.7	27.452	1028.8	60.7	0.206	1446.9	0.059	159	272
300	-0.895	-0.904	1.205	0.980	34.163	5.44	237	96.8	27.471	1028.9	59.0	0.221	1448.7	0.050	145	297
325	-0.261	-0.272	1.862	1.617	34.226	4.72	205	96.6	27.495	1029.0	57.3	0.235	1452.2	0.046	113	321
350	-0.094	-0.107	2.049	1.786	34.265	4.61	200	96.6	27.518	1029.2	55.3	0.250	1453.4	0.061	105	346
375	0.093	0.079	2.259	1.977	34.324	4.56	198	96.6	27.556	1029.3	51.8	0.263	1454.8	0.064	103	371
400	0.140	0.124	2.326	2.025	34.349	4.53	197	96.8	27.574	1029.5	50.2	0.276	1455.4	0.060	90	395
425	0.218	0.201	2.425	2.105	34.376	4.51	196	96.9	27.592	1029.6	48.7	0.288	1456.2	0.059	91	420
450	0.249	0.230	2.475	2.136	34.390	4.51	196	96.9	27.601	1029.7	47.8	0.300	1456.8	0.065	84	445
475	0.307	0.287	2.553	2.195	34.407	4.49	195	96.8	27.612	1029.9	46.9	0.312	1457.5	0.068	75	469
500	0.345	0.324	2.611	2.234	34.422	4.48	195	96.9	27.622	1030.0	46.0	0.324	1458.1	0.081	82	494
550	0.408	0.384	2.712	2.298	34.445	4.47	194	96.8	27.637	1030.2	44.6	0.346	1459.2	0.094	85	543
600	0.441	0.415	2.784	2.333	34.457	4.46	194	96.9	27.645	1030.5	44.0	0.368	1460.2	0.101	97	593
650	0.451	0.422	2.833	2.343	34.473	4.48	195	97.0	27.658	1030.7	42.9	0.390	1461.1	0.106	113	642
700	0.533	0.501	2.956	2.429	34.530	4.56	198	97.1	27.699	1031.0	39.2	0.411	1462.4	0.117	131	691
750	0.752	0.716	3.217	2.652	34.604	4.45	193	96.9	27.745	1031.3	35.4	0.429	1464.3	0.149	136	741
800	0.762	0.723	3.264	2.661	34.605	4.45	193	96.8	27.745	1031.5	35.5	0.447	1465.2	0.133	141	790
840	0.767	0.726	3.300	2.667	34.605	4.45	194	96.8	27.746	1031.7	35.6	0.461	1465.9			829

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	118B	2009/02/04	13:48	-73.7126	-113.2876	840	6	836	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.422	-0.423	33.452	26.876	8.79	382	33.450	8.74	380	2014.8		15	10
54	-1.149	-1.150	33.895	27.263	6.87	299				2200.6		13	54
110	-1.442	-1.444	33.979	27.340	6.24	271	33.977	6.22	271	2209.5		11	109
164	-1.522	-1.526	34.007	27.366	6.38	277				2208.7		9	162
258	-1.247	-1.254	34.107	27.439	5.99	260				2218.1		7	255
467	0.281	0.262	34.396	27.605	4.49	195				2245.4		5	462
627	0.456	0.428	34.462	27.648	4.46	194				2249.1		4	619
840	0.768	0.727	34.605	27.746	4.46	194	34.606			2259.7		1	829

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	118U	2009/02/04	14:14	-73.7129	-113.2884	840	6	836	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.422	-0.422	1.412	1.411	33.451	8.97	390	26.875	1026.9	116.6	0.001	1445.1	1
25	-0.591	-0.592	1.280	1.261	33.768	8.09	352	27.139	1027.3	91.5	0.028	1445.2	25
50	-1.244	-1.245	0.652	0.614	33.881	7.07	307	27.255	1027.5	80.4	0.049	1442.6	50
75	-1.335	-1.337	0.583	0.527	33.940	6.34	276	27.306	1027.7	75.4	0.069	1442.7	74
100	-1.436	-1.438	0.503	0.428	33.969	6.31	274	27.333	1027.8	72.7	0.087	1442.7	99
125	-1.554	-1.557	0.404	0.310	33.982	6.43	280	27.347	1027.9	71.2	0.105	1442.5	124
150	-1.671	-1.674	0.306	0.193	33.992	6.58	286	27.358	1028.1	69.9	0.123	1442.4	148
175	-1.472	-1.476	0.526	0.394	34.014	6.36	276	27.370	1028.2	68.7	0.140	1443.8	173
200	-1.250	-1.255	0.768	0.618	34.047	5.97	259	27.390	1028.3	66.8	0.157	1445.3	198
225	-1.216	-1.221	0.823	0.654	34.077	5.92	258	27.413	1028.5	64.6	0.173	1445.9	222
250	-1.190	-1.197	0.869	0.680	34.102	5.90	257	27.433	1028.6	62.6	0.189	1446.4	247
275	-1.193	-1.200	0.887	0.679	34.122	5.91	257	27.449	1028.8	61.0	0.204	1446.9	272
300	-0.913	-0.922	1.186	0.960	34.153	5.58	243	27.464	1028.9	59.7	0.220	1448.6	297
325	-0.215	-0.227	1.908	1.663	34.227	4.67	203	27.494	1029.0	57.5	0.234	1452.4	321
350	-0.129	-0.141	2.014	1.751	34.250	4.63	201	27.508	1029.2	56.2	0.248	1453.2	346
375	0.079	0.064	2.244	1.962	34.314	4.57	199	27.549	1029.3	52.5	0.262	1454.7	371
400	0.125	0.110	2.311	2.010	34.342	4.55	198	27.569	1029.5	50.7	0.275	1455.3	395
425	0.198	0.181	2.404	2.084	34.365	4.52	196	27.584	1029.6	49.4	0.287	1456.1	420
450	0.247	0.228	2.473	2.134	34.385	4.51	196	27.597	1029.7	48.2	0.300	1456.8	445
475	0.307	0.287	2.553	2.195	34.404	4.49	195	27.610	1029.9	47.1	0.312	1457.5	469
500	0.344	0.323	2.609	2.233	34.416	4.48	195	27.617	1030.0	46.4	0.323	1458.1	494
550	0.406	0.382	2.710	2.296	34.441	4.47	194	27.634	1030.2	45.0	0.346	1459.2	543
600	0.437	0.411	2.780	2.328	34.452	4.47	194	27.641	1030.5	44.4	0.368	1460.2	593
650	0.455	0.426	2.836	2.347	34.470	4.47	194	27.655	1030.7	43.1	0.390	1461.1	642
700	0.525	0.493	2.947	2.420	34.524	4.57	199	27.695	1031.0	39.6	0.411	1462.3	691
750	0.755	0.719	3.219	2.654	34.601	4.45	194	27.743	1031.3	35.6	0.430	1464.3	741
800	0.761	0.723	3.263	2.661	34.602	4.45	194	27.744	1031.5	35.7	0.448	1465.2	790
840	0.767	0.726	3.300	2.667	34.605	4.45	194	27.746	1031.7	35.6	0.462	1465.9	829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Potential Temperature (°C)
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Pressure (dbar)
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100°W
70°S
72°S
74°S
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**119D**	2009/02/04	18:48	-74.1729	-113.3390	589	5	587	6	7.1	177	-3.7	989.8

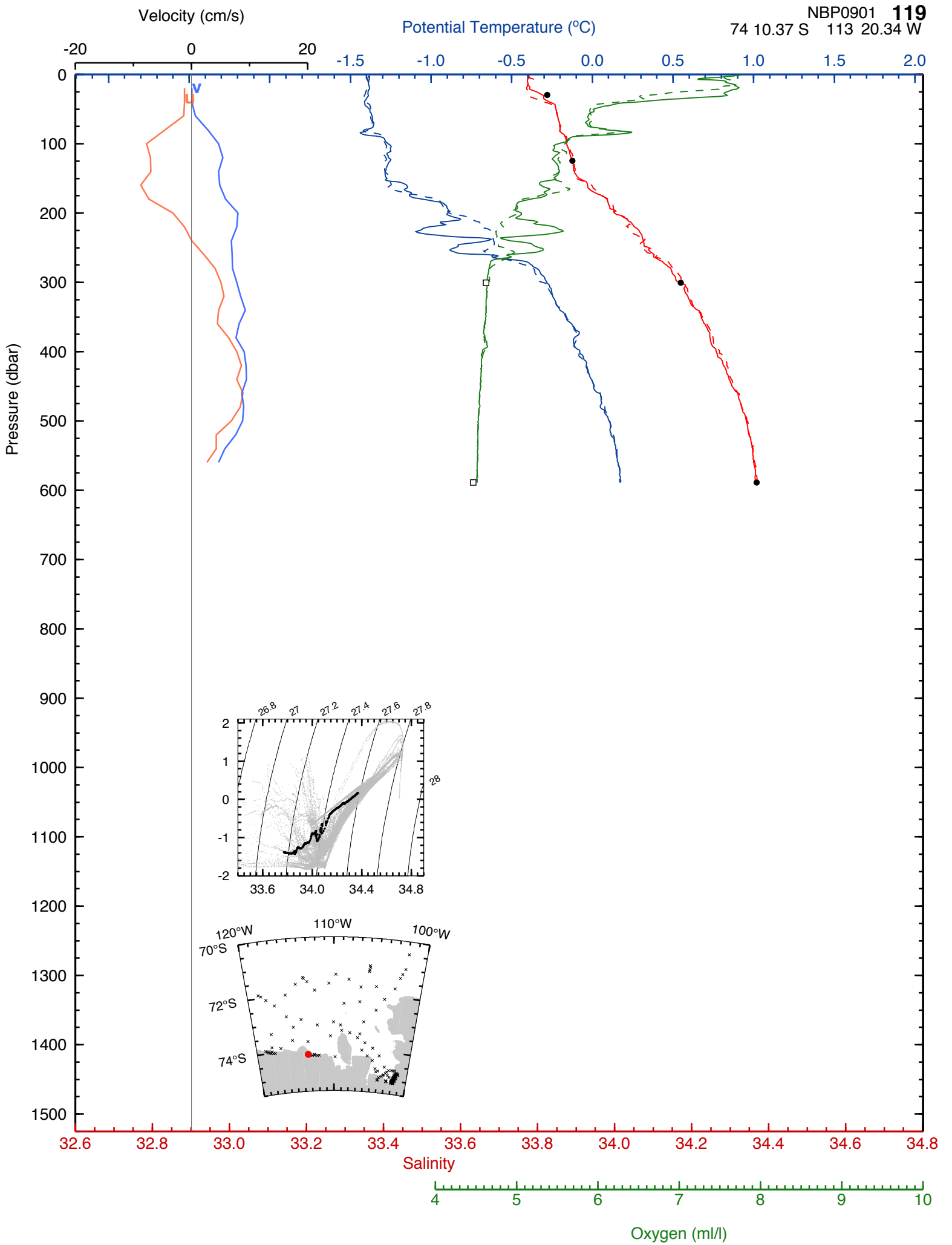
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.387	-1.387	0.467	0.466	33.773	7.68	334	85.5	27.172	1027.2	88.5	0.002	1441.0			2
25	-1.391	-1.391	0.481	0.462	33.777	7.59	330	86.3	27.175	1027.3	88.0	0.022	1441.4	0.012	275	25
50	-1.380	-1.381	0.514	0.476	33.848	5.94	258	95.7	27.233	1027.5	82.4	0.043	1442.0	0.013	286	50
75	-1.358	-1.359	0.556	0.499	33.860	5.88	256	96.1	27.241	1027.6	81.5	0.064	1442.5	0.042	301	74
100	-1.263	-1.266	0.670	0.595	33.880	5.51	240	96.4	27.255	1027.7	80.1	0.084	1443.4	0.088	301	99
125	-1.252	-1.255	0.701	0.607	33.895	5.47	238	96.7	27.267	1027.9	78.8	0.104	1443.8	0.088	307	124
150	-1.271	-1.274	0.702	0.589	33.903	5.47	238	96.7	27.273	1028.0	78.1	0.124	1444.2	0.091	302	148
175	-1.131	-1.136	0.864	0.732	33.967	5.36	233	96.8	27.321	1028.2	73.5	0.142	1445.3	0.096	306	173
200	-0.892	-0.897	1.124	0.974	34.003	5.06	220	96.8	27.342	1028.3	71.6	0.161	1446.9	0.087	335	198
225	-1.065	-1.071	0.971	0.802	34.036	5.56	242	96.9	27.375	1028.5	68.3	0.178	1446.5	0.078	308	222
250	-0.846	-0.853	1.211	1.023	34.070	5.29	230	96.8	27.394	1028.6	66.5	0.195	1448.0	0.070	7	247
275	-0.367	-0.376	1.713	1.506	34.145	4.67	203	96.4	27.435	1028.7	63.0	0.211	1450.8	0.078	25	272
300	-0.273	-0.283	1.828	1.602	34.178	4.63	201	96.3	27.456	1028.9	61.0	0.226	1451.7	0.091	33	297
325	-0.223	-0.235	1.898	1.653	34.197	4.63	201	96.3	27.470	1029.0	59.7	0.241	1452.3	0.102	33	321
350	-0.152	-0.165	1.989	1.726	34.228	4.62	201	96.3	27.491	1029.2	57.8	0.256	1453.1	0.101	27	346
375	-0.070	-0.084	2.092	1.809	34.255	4.60	200	96.3	27.509	1029.3	56.1	0.270	1453.9	0.097	35	371
400	-0.063	-0.078	2.119	1.817	34.272	4.58	199	96.5	27.523	1029.4	54.8	0.284	1454.4	0.115	40	395
425	-0.014	-0.030	2.188	1.868	34.295	4.56	198	96.5	27.538	1029.6	53.4	0.298	1455.1	0.127	42	420
450	0.025	0.008	2.247	1.908	34.309	4.56	198	96.5	27.548	1029.7	52.5	0.311	1455.7	0.123	41	445
475	0.075	0.056	2.316	1.959	34.328	4.54	197	96.6	27.561	1029.8	51.4	0.324	1456.3	0.123	44	469
500	0.124	0.103	2.385	2.008	34.345	4.53	197	96.6	27.572	1029.9	50.4	0.337	1457.0	0.115	40	494
550	0.172	0.150	2.472	2.058	34.361	4.52	196	96.6	27.582	1030.2	49.5	0.361	1458.0	0.068	36	543
589	0.194	0.170	2.524	2.080	34.367	4.51	196	96.5	27.586	1030.4	49.1	0.381	1458.8			582

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	119B	2009/02/04	19:05	-74.1729	-113.3400	588	5	587	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
30	-1.412	-1.413	33.814	27.206	6.61	287	33.825					11	30
124	-1.273	-1.276	33.891	27.264	5.51	240	33.890					9	123
196	-0.912	-0.917	33.990	27.332	5.00	217					-0.439	7	194
250	-0.598	-0.606	34.080	27.392	4.78	208					-0.368	5	247
301	-0.304	-0.314	34.167	27.449	4.65	202	34.172	4.62	201		-0.348	3	297
588	0.199	0.174	34.369	27.588	4.51	196	34.369	4.47	194		-0.189	1	581

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	119U	2009/02/04	19:23	-74.1730	-113.3413	588	5	587	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.383	-1.383	0.470	0.469	33.778	7.75	337	27.176	1027.2	88.1	0.001	1441.0	1
25	-1.405	-1.406	0.467	0.448	33.798	7.00	304	27.192	1027.3	86.4	0.022	1441.4	25
50	-1.372	-1.373	0.522	0.484	33.848	5.91	257	27.233	1027.5	82.5	0.043	1442.0	50
75	-1.368	-1.370	0.545	0.489	33.858	5.91	257	27.240	1027.6	81.6	0.064	1442.4	74
100	-1.281	-1.284	0.652	0.577	33.876	5.60	243	27.252	1027.7	80.4	0.084	1443.3	99
125	-1.282	-1.285	0.671	0.577	33.892	5.53	240	27.265	1027.9	79.0	0.104	1443.7	124
150	-1.253	-1.257	0.720	0.607	33.908	5.43	236	27.278	1028.0	77.7	0.123	1444.3	148
175	-1.066	-1.070	0.929	0.797	33.966	5.28	230	27.318	1028.2	73.9	0.142	1445.6	173
200	-0.882	-0.887	1.134	0.983	34.000	5.00	218	27.338	1028.3	71.9	0.161	1447.0	198
225	-0.624	-0.631	1.414	1.244	34.063	4.76	207	27.379	1028.5	68.2	0.178	1448.7	222
250	-0.621	-0.629	1.437	1.249	34.089	4.87	212	27.401	1028.6	66.1	0.195	1449.1	247
275	-0.407	-0.416	1.673	1.466	34.135	4.72	205	27.428	1028.7	63.6	0.211	1450.6	272
300	-0.298	-0.308	1.803	1.577	34.169	4.65	202	27.450	1028.9	61.5	0.227	1451.5	297
325	-0.222	-0.234	1.898	1.654	34.194	4.63	201	27.467	1029.0	60.0	0.242	1452.3	321
350	-0.148	-0.161	1.994	1.730	34.225	4.62	201	27.489	1029.2	58.0	0.257	1453.1	346
375	-0.083	-0.097	2.078	1.796	34.248	4.60	200	27.504	1029.3	56.6	0.271	1453.9	371
400	-0.075	-0.090	2.106	1.805	34.264	4.60	200	27.517	1029.4	55.3	0.285	1454.3	395
425	-0.017	-0.033	2.185	1.865	34.288	4.56	198	27.533	1029.6	53.8	0.299	1455.0	420
450	0.030	0.013	2.251	1.913	34.305	4.56	198	27.545	1029.7	52.8	0.312	1455.7	445
475	0.083	0.065	2.325	1.967	34.327	4.54	198	27.560	1029.8	51.4	0.325	1456.4	469
500	0.127	0.107	2.388	2.012	34.342	4.53	197	27.570	1029.9	50.6	0.338	1457.0	494
550	0.176	0.153	2.476	2.061	34.359	4.52	196	27.581	1030.2	49.6	0.363	1458.1	543
589	0.194	0.170	2.524	2.080	34.367	4.51	196	27.586	1030.4	49.1	0.382	1458.8	582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74 10.37 S 113 20.34 W
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200
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110°W
100°W
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72°S
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Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**120D**	2009/02/04	21:16	-74.1924	-113.2117	812	9	811	4	5.7	162	-2.3	988.3

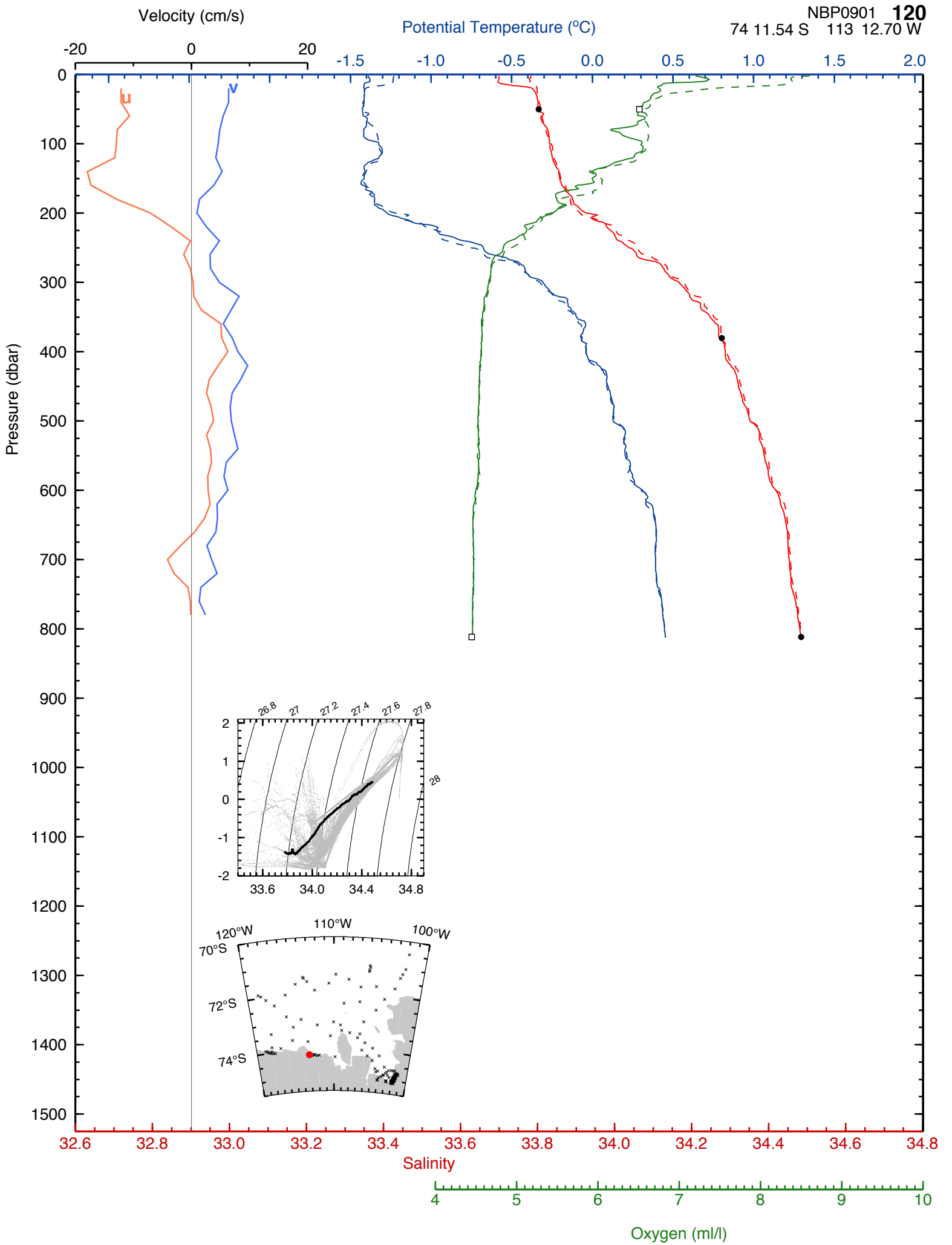
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.387	-1.387	0.467	0.466	33.782	7.20	313	89.1	27.179	1027.2	87.8	0.002	1441.0			2
25	-1.413	-1.414	0.459	0.440	33.799	6.76	294	93.7	27.194	1027.3	86.3	0.022	1441.3	0.137	298	25
50	-1.425	-1.426	0.467	0.429	33.808	6.50	283	95.6	27.202	1027.4	85.4	0.043	1441.7	0.129	298	50
75	-1.401	-1.403	0.510	0.453	33.817	6.42	279	95.2	27.208	1027.6	84.6	0.064	1442.2	0.132	293	74
100	-1.323	-1.325	0.608	0.533	33.836	6.54	284	95.4	27.221	1027.7	83.3	0.085	1443.0	0.137	290	99
125	-1.367	-1.369	0.584	0.490	33.846	6.27	272	95.7	27.230	1027.8	82.2	0.106	1443.2	0.148	287	124
150	-1.413	-1.417	0.557	0.444	33.860	5.93	258	95.9	27.244	1028.0	80.8	0.127	1443.4	0.183	285	148
175	-1.349	-1.353	0.641	0.510	33.885	5.48	238	96.7	27.262	1028.1	79.0	0.146	1444.2	0.146	278	173
200	-1.268	-1.272	0.743	0.592	33.910	5.45	237	96.7	27.280	1028.2	77.3	0.166	1445.0	0.079	277	198
225	-0.959	-0.965	1.076	0.906	34.003	5.12	223	96.8	27.344	1028.4	71.2	0.185	1447.0	0.044	313	222
250	-0.669	-0.677	1.388	1.199	34.062	4.84	210	96.6	27.380	1028.6	68.0	0.202	1448.8	0.043	351	247
275	-0.427	-0.436	1.653	1.446	34.133	4.69	204	96.5	27.427	1028.7	63.7	0.218	1450.5	0.034	349	272
300	-0.297	-0.307	1.804	1.578	34.179	4.66	202	96.4	27.459	1028.9	60.8	0.234	1451.5	0.045	64	297
325	-0.142	-0.154	1.981	1.736	34.232	4.60	200	96.4	27.494	1029.0	57.5	0.249	1452.7	0.081	4	321
350	-0.086	-0.098	2.058	1.794	34.258	4.58	199	96.4	27.513	1029.2	55.8	0.263	1453.5	0.071	23	346
375	-0.052	-0.067	2.111	1.828	34.276	4.58	199	96.3	27.526	1029.3	54.6	0.277	1454.0	0.081	40	371
400	-0.023	-0.038	2.160	1.859	34.291	4.56	198	96.4	27.536	1029.4	53.6	0.290	1454.6	0.099	38	395
425	0.080	0.063	2.283	1.963	34.318	4.55	198	96.3	27.552	1029.6	52.2	0.304	1455.5	0.107	25	420
450	0.115	0.097	2.337	1.999	34.329	4.54	197	96.3	27.559	1029.7	51.5	0.317	1456.1	0.086	20	445
475	0.147	0.128	2.389	2.032	34.341	4.54	197	96.4	27.567	1029.8	50.8	0.329	1456.7	0.075	23	469
500	0.149	0.129	2.411	2.034	34.354	4.53	197	96.4	27.578	1029.9	49.8	0.342	1457.1	0.078	28	494
550	0.226	0.203	2.528	2.114	34.393	4.54	198	96.7	27.605	1030.2	47.4	0.366	1458.3	0.084	24	543
600	0.329	0.303	2.670	2.218	34.420	4.50	196	96.8	27.622	1030.5	46.0	0.390	1459.7	0.067	25	593
650	0.421	0.393	2.802	2.312	34.449	4.46	194	96.7	27.640	1030.7	44.5	0.412	1461.0	0.050	25	642
700	0.422	0.391	2.840	2.313	34.457	4.47	194	96.8	27.647	1030.9	43.9	0.434	1461.8	0.045	317	691
750	0.457	0.423	2.914	2.349	34.471	4.46	194	96.9	27.656	1031.2	43.1	0.456	1462.8	0.017	340	741
800	0.484	0.447	2.979	2.376	34.482	4.46	194	97.0	27.664	1031.4	42.5	0.477	1463.8			790
812	0.491	0.453	2.995	2.383	34.484	4.45	193	97.0	27.664	1031.5	42.5	0.482	1464.0			802

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	120B	2009/02/04	21:37	-74.1927	-113.2128	812	9	811	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
50	-1.426	-1.427	33.806	27.200	6.52	283	33.803	6.51	283			7	50
164	-1.386	-1.390	33.868	27.249	6.05	263						6	162
380	-0.059	-0.073	34.276	27.526	4.58	199	34.279				-0.236	3	376
812	0.490	0.453	34.484	27.665	4.45	194	34.484	4.45	193			1	801

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	120U	2009/02/04	21:56	-74.1924	-113.2117	812	9	811	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	-1.229	-1.229	0.621	0.619	33.698	8.60	374	27.106	1027.1	94.7	0.002	1441.7	2
25	-1.417	-1.417	0.455	0.437	33.794	7.07	308	27.189	1027.3	86.7	0.023	1441.3	25
50	-1.424	-1.425	0.468	0.430	33.805	6.56	285	27.199	1027.4	85.6	0.045	1441.7	50
75	-1.359	-1.361	0.552	0.495	33.821	6.62	288	27.210	1027.6	84.4	0.066	1442.4	74
100	-1.322	-1.325	0.609	0.533	33.832	6.60	287	27.218	1027.7	83.6	0.087	1443.0	99
125	-1.326	-1.329	0.624	0.530	33.841	6.45	281	27.225	1027.8	82.8	0.108	1443.4	124
150	-1.431	-1.434	0.539	0.426	33.858	6.04	262	27.242	1028.0	81.0	0.128	1443.3	148
175	-1.369	-1.373	0.622	0.490	33.886	5.74	250	27.263	1028.1	78.9	0.148	1444.1	173
200	-1.213	-1.218	0.799	0.648	33.927	5.42	236	27.291	1028.3	76.2	0.168	1445.3	198
225	-0.959	-0.965	1.075	0.906	33.990	5.12	223	27.334	1028.4	72.2	0.186	1447.0	222
250	-0.741	-0.749	1.314	1.126	34.039	4.93	214	27.365	1028.6	69.4	0.204	1448.5	247
275	-0.445	-0.454	1.634	1.427	34.122	4.70	204	27.419	1028.7	64.4	0.221	1450.4	272
300	-0.316	-0.326	1.785	1.559	34.168	4.67	203	27.450	1028.9	61.5	0.236	1451.5	297
325	-0.214	-0.225	1.908	1.663	34.202	4.63	201	27.473	1029.0	59.4	0.252	1452.4	321
350	-0.093	-0.106	2.050	1.786	34.248	4.59	199	27.505	1029.2	56.5	0.266	1453.4	346
375	-0.057	-0.071	2.106	1.824	34.270	4.58	199	27.521	1029.3	55.0	0.280	1454.0	371
400	-0.025	-0.040	2.158	1.857	34.288	4.57	199	27.533	1029.4	53.9	0.293	1454.6	395
425	0.064	0.048	2.267	1.947	34.309	4.55	198	27.546	1029.6	52.8	0.307	1455.4	420
450	0.107	0.089	2.329	1.990	34.322	4.54	197	27.554	1029.7	52.0	0.320	1456.1	445
475	0.141	0.122	2.383	2.026	34.336	4.54	197	27.564	1029.8	51.2	0.333	1456.6	469
500	0.155	0.135	2.417	2.041	34.352	4.53	197	27.576	1029.9	50.0	0.345	1457.1	494
550	0.237	0.214	2.539	2.125	34.389	4.52	196	27.601	1030.2	47.8	0.370	1458.4	543
600	0.336	0.310	2.677	2.225	34.418	4.51	196	27.620	1030.5	46.2	0.393	1459.7	593
650	0.422	0.393	2.802	2.312	34.446	4.47	194	27.637	1030.7	44.7	0.416	1461.0	642
700	0.422	0.391	2.840	2.313	34.453	4.47	194	27.643	1030.9	44.2	0.438	1461.8	691
750	0.450	0.416	2.907	2.342	34.465	4.47	194	27.651	1031.2	43.5	0.460	1462.8	741
800	0.486	0.449	2.981	2.379	34.481	4.46	194	27.663	1031.4	42.6	0.482	1463.8	790
812	0.491	0.453	2.995	2.383	34.484	4.45	193	27.664	1031.5	42.5	0.487	1464.0	802


NBP0901 120
74 11.54 S 113 12.70 W
Velocity (cm/s)
-20
0
20
u
v
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**121D**	2009/02/04	22:55	-74.2169	-112.8746	745	9	745	5	6.5	139	-2.7	987.3

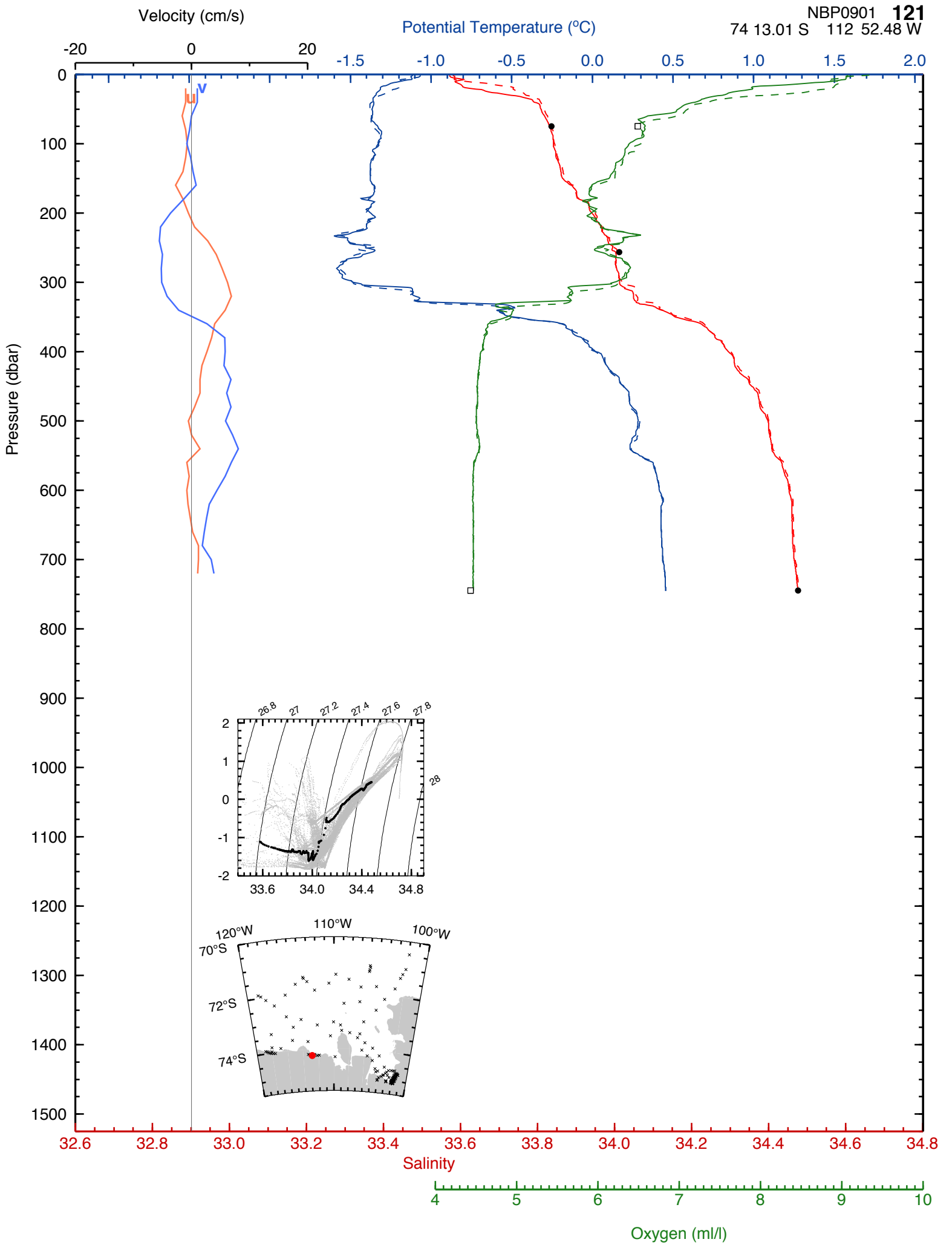
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.113	-1.113	0.729	0.728	33.580	9.08	395	72.1	27.006	1027.0	104.2	0.001	1442.1			1
25	-1.330	-1.331	0.540	0.521	33.755	7.67	333	83.6	27.155	1027.3	89.9	0.024	1441.7	0.014	315	25
50	-1.366	-1.367	0.527	0.489	33.816	6.99	304	93.5	27.206	1027.4	84.9	0.046	1442.0	0.015	294	50
75	-1.329	-1.331	0.583	0.526	33.836	6.58	286	95.4	27.221	1027.6	83.4	0.067	1442.6	0.012	258	74
100	-1.325	-1.328	0.606	0.531	33.844	6.38	278	95.7	27.228	1027.7	82.6	0.088	1443.0	0.011	223	99
125	-1.369	-1.372	0.582	0.488	33.857	6.26	272	96.1	27.240	1027.8	81.4	0.108	1443.2	0.011	267	124
150	-1.373	-1.377	0.597	0.484	33.872	6.13	267	96.4	27.252	1028.0	80.1	0.129	1443.6	0.020	283	148
175	-1.359	-1.363	0.633	0.501	33.902	5.90	256	96.6	27.276	1028.1	77.7	0.148	1444.2	0.023	249	173
200	-1.370	-1.375	0.642	0.492	33.950	5.91	257	96.8	27.315	1028.3	73.8	0.167	1444.6	0.034	193	198
225	-1.421	-1.427	0.611	0.442	33.968	6.20	270	96.8	27.332	1028.4	72.1	0.185	1444.8	0.054	172	222
250	-1.400	-1.406	0.653	0.465	33.999	6.02	262	96.5	27.356	1028.6	69.7	0.203	1445.3	0.063	148	247
275	-1.555	-1.561	0.517	0.310	34.003	6.38	277	97.0	27.364	1028.7	68.7	0.220	1445.0	0.071	136	272
300	-1.475	-1.482	0.617	0.392	34.021	6.19	269	97.1	27.376	1028.8	67.4	0.237	1445.8	0.079	130	297
325	-1.070	-1.079	1.043	0.798	34.060	5.67	246	96.9	27.395	1029.0	66.0	0.254	1448.2	0.080	121	321
350	-0.470	-0.481	1.669	1.405	34.175	4.88	212	96.9	27.463	1029.1	60.1	0.270	1451.6	0.058	95	346
375	-0.100	-0.114	2.062	1.780	34.258	4.63	201	96.3	27.513	1029.3	55.7	0.284	1453.8	0.058	43	371
400	0.038	0.022	2.221	1.920	34.301	4.56	198	96.3	27.541	1029.4	53.2	0.298	1454.9	0.065	27	395
425	0.119	0.102	2.323	2.003	34.324	4.54	197	96.4	27.555	1029.6	51.9	0.311	1455.7	0.059	18	420
450	0.214	0.196	2.439	2.100	34.364	4.51	196	96.5	27.582	1029.7	49.5	0.324	1456.6	0.068	13	445
475	0.251	0.231	2.495	2.137	34.379	4.52	196	96.4	27.593	1029.8	48.6	0.336	1457.2	0.065	9	469
500	0.304	0.283	2.568	2.191	34.400	4.50	196	96.4	27.606	1030.0	47.4	0.348	1457.9	0.062	251	494
550	0.317	0.294	2.620	2.206	34.425	4.51	196	96.8	27.626	1030.2	45.6	0.371	1458.8	0.080	68	543
600	0.442	0.415	2.785	2.333	34.456	4.46	194	96.7	27.644	1030.5	44.1	0.393	1460.2	0.050	352	593
650	0.455	0.426	2.836	2.346	34.464	4.47	194	96.8	27.650	1030.7	43.6	0.415	1461.1	0.026	319	642
700	0.467	0.435	2.885	2.358	34.469	4.47	194	96.7	27.653	1031.0	43.3	0.437	1462.0	0.030	25	691
745	0.488	0.454	2.941	2.380	34.478	4.46	194	96.8	27.660	1031.2	42.8	0.456	1462.9			736

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	121B	2009/02/04	23:14	-74.2174	-112.8758	745	9	745	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	d18O	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
75	-1.343	-1.345	33.835	27.221	6.51	283	33.837	6.49	282			9	74
168	-1.354	-1.358	33.901	27.275	5.89	256						7	166
256	-1.480	-1.486	34.005	27.363	6.24	271	34.013					5	253
384	0.019	0.004	34.290	27.533	4.57	199						3	380
745	0.488	0.454	34.479	27.660	4.46	194	34.477	4.43	193			1	736

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	121U	2009/02/04	23:35	-74.2176	-112.8762	745	9	745	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.067	-1.067	0.774	0.773	33.572	9.34	406	26.998	1027.0	104.9	0.001	1442.3	1
25	-1.253	-1.254	0.612	0.593	33.673	8.57	373	27.086	1027.2	96.5	0.025	1441.9	25
50	-1.379	-1.380	0.513	0.475	33.809	7.11	309	27.201	1027.4	85.5	0.048	1441.9	50
75	-1.360	-1.361	0.552	0.496	33.832	6.50	283	27.219	1027.6	83.6	0.069	1442.4	74
100	-1.325	-1.327	0.606	0.531	33.841	6.53	284	27.225	1027.7	82.9	0.090	1443.0	99
125	-1.363	-1.366	0.588	0.494	33.853	6.30	274	27.236	1027.8	81.7	0.110	1443.2	124
150	-1.373	-1.377	0.597	0.484	33.866	6.20	270	27.247	1028.0	80.6	0.130	1443.6	148
175	-1.367	-1.371	0.624	0.492	33.902	5.89	256	27.276	1028.1	77.7	0.150	1444.1	173
200	-1.393	-1.397	0.619	0.469	33.941	5.98	260	27.308	1028.3	74.5	0.169	1444.5	198
225	-1.450	-1.456	0.582	0.413	33.966	6.15	268	27.331	1028.4	72.2	0.187	1444.6	222
250	-1.376	-1.382	0.677	0.489	33.995	6.01	261	27.352	1028.6	70.1	0.205	1445.4	247
275	-1.566	-1.573	0.506	0.299	34.003	6.38	277	27.364	1028.7	68.7	0.222	1444.9	272
300	-1.478	-1.485	0.614	0.388	34.013	6.26	272	27.370	1028.8	68.1	0.239	1445.8	297
325	-1.096	-1.105	1.017	0.772	34.051	5.68	247	27.388	1028.9	66.6	0.256	1448.0	321
350	-0.489	-0.500	1.649	1.385	34.159	4.94	215	27.451	1029.1	61.2	0.272	1451.5	346
375	-0.060	-0.074	2.102	1.820	34.258	4.61	200	27.511	1029.3	56.0	0.287	1454.0	371
400	0.034	0.018	2.217	1.916	34.295	4.58	199	27.536	1029.4	53.7	0.300	1454.9	395
425	0.113	0.096	2.316	1.996	34.318	4.54	197	27.550	1029.6	52.4	0.314	1455.7	420
450	0.210	0.192	2.434	2.096	34.357	4.52	196	27.577	1029.7	50.0	0.326	1456.6	445
475	0.252	0.233	2.496	2.138	34.376	4.52	196	27.590	1029.8	48.8	0.339	1457.2	469
500	0.313	0.292	2.578	2.201	34.398	4.50	196	27.605	1030.0	47.6	0.351	1457.9	494
550	0.306	0.282	2.609	2.195	34.417	4.53	197	27.621	1030.2	46.1	0.374	1458.7	543
600	0.444	0.418	2.787	2.335	34.453	4.47	194	27.642	1030.5	44.3	0.397	1460.2	593
650	0.454	0.425	2.835	2.346	34.461	4.47	194	27.648	1030.7	43.8	0.419	1461.1	642
700	0.469	0.437	2.888	2.361	34.466	4.47	194	27.651	1031.0	43.6	0.441	1462.0	691
745	0.488	0.454	2.941	2.380	34.478	4.46	194	27.660	1031.2	42.8	0.460	1462.9	736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Potential Temperature (°C)
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-1.0
-0.5
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Pressure (dbar)
0
100
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27.2
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33.6
34.0
34.4
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
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33.6
33.8
34.0
34.2
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34.6
34.8
Salinity
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**122D**	2009/02/05	00:42	-74.2171	-112.5311	1184	10	1178	8	5.8	137	-2.7	986.8

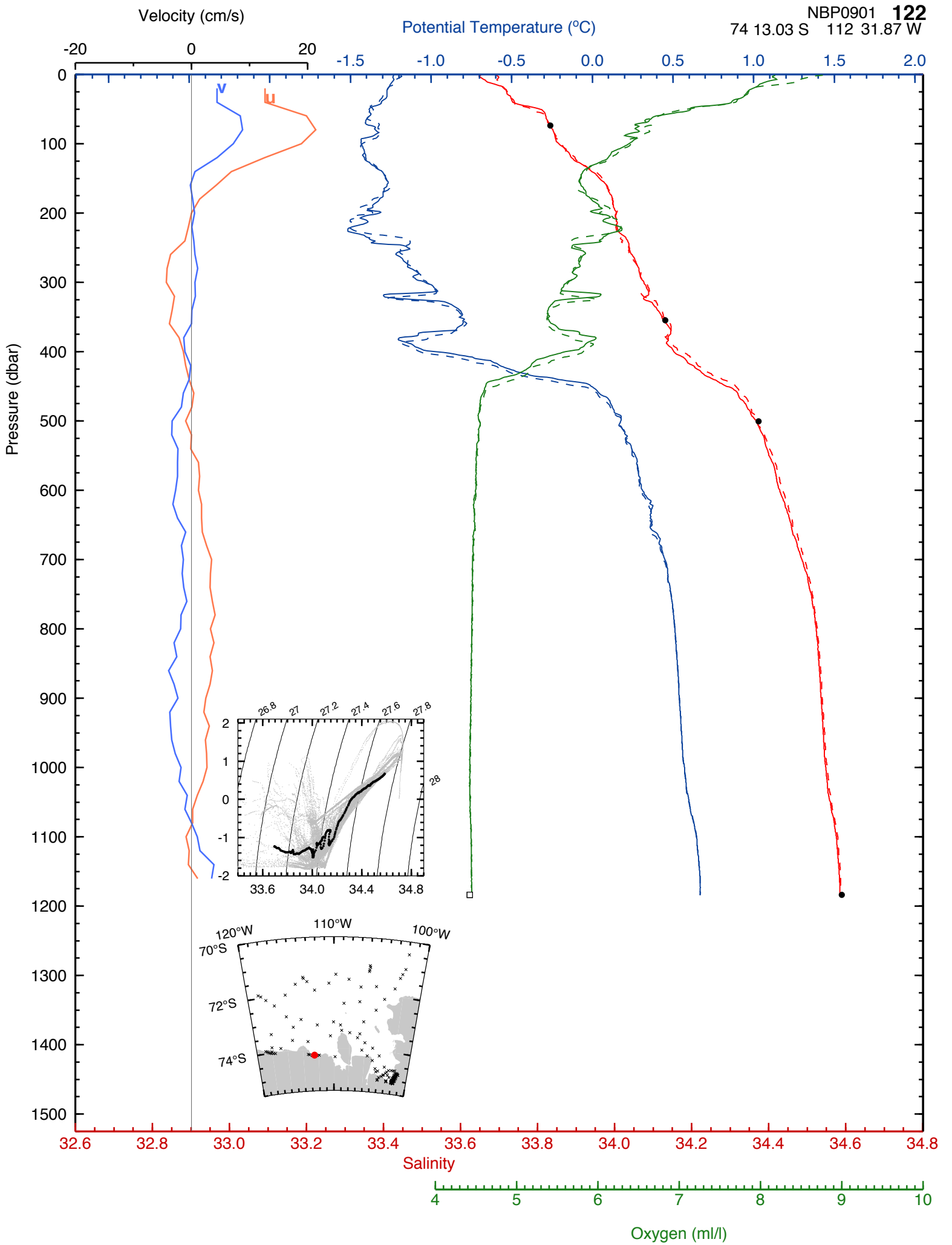
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.230	-1.230	0.618	0.617	33.693	8.18	356	79.7	27.102	1027.1	95.1	0.001	1441.7			1
25	-1.274	-1.274	0.594	0.575	33.723	7.84	341	83.6	27.128	1027.2	92.6	0.024	1441.9	0.134	71	25
50	-1.383	-1.384	0.507	0.470	33.784	7.14	310	91.0	27.181	1027.4	87.4	0.046	1441.8	0.172	69	50
75	-1.353	-1.355	0.559	0.503	33.838	6.50	283	95.6	27.224	1027.6	83.1	0.067	1442.5	0.226	67	74
100	-1.431	-1.433	0.501	0.426	33.862	6.38	277	96.0	27.246	1027.7	80.9	0.088	1442.5	0.204	69	99
125	-1.395	-1.398	0.559	0.465	33.904	6.05	263	96.4	27.279	1027.9	77.7	0.108	1443.2	0.121	73	124
150	-1.280	-1.284	0.696	0.583	33.967	5.79	252	96.7	27.326	1028.0	73.1	0.127	1444.2	0.058	88	148
175	-1.293	-1.297	0.704	0.572	33.992	5.86	255	96.8	27.347	1028.2	71.0	0.145	1444.6	0.024	86	173
200	-1.314	-1.319	0.702	0.551	34.005	5.97	260	96.8	27.358	1028.3	69.8	0.162	1444.9	0.006	9	198
225	-1.512	-1.517	0.522	0.353	34.005	6.29	273	97.0	27.364	1028.4	69.0	0.180	1444.4	0.006	282	222
250	-1.137	-1.143	0.919	0.731	34.037	5.68	247	96.8	27.378	1028.6	67.8	0.197	1446.6	0.021	286	247
275	-1.136	-1.144	0.939	0.732	34.059	5.78	251	96.9	27.396	1028.7	66.0	0.213	1447.0	0.040	283	272
300	-1.027	-1.035	1.068	0.843	34.079	5.62	244	96.9	27.409	1028.8	64.8	0.230	1448.0	0.043	279	297
325	-1.075	-1.084	1.041	0.796	34.100	5.56	242	97.0	27.427	1029.0	62.9	0.246	1448.2	0.030	283	321
350	-0.814	-0.825	1.322	1.058	34.128	5.40	235	96.8	27.440	1029.1	61.9	0.262	1449.9	0.035	271	346
375	-1.068	-1.079	1.087	0.805	34.138	5.77	251	97.0	27.457	1029.3	59.9	0.277	1449.1	0.031	253	371
400	-0.962	-0.974	1.215	0.913	34.177	5.60	243	97.1	27.485	1029.4	57.3	0.291	1450.1	0.020	233	395
425	-0.500	-0.514	1.699	1.379	34.232	5.13	223	96.9	27.511	1029.5	55.4	0.306	1452.7	0.010	264	420
450	0.011	-0.006	2.233	1.894	34.315	4.62	201	97.0	27.553	1029.7	52.0	0.319	1455.6	0.008	211	445
475	0.133	0.114	2.375	2.018	34.349	4.55	198	97.1	27.574	1029.8	50.2	0.332	1456.6	0.016	170	469
500	0.197	0.176	2.459	2.083	34.369	4.54	197	96.8	27.587	1030.0	49.0	0.344	1457.3	0.029	191	494
550	0.289	0.266	2.592	2.178	34.411	4.50	196	97.0	27.617	1030.2	46.4	0.368	1458.7	0.024	178	543
600	0.336	0.310	2.678	2.226	34.436	4.49	195	97.1	27.634	1030.5	44.9	0.391	1459.7	0.029	154	593
650	0.388	0.360	2.769	2.280	34.462	4.49	195	97.1	27.653	1030.7	43.3	0.413	1460.8	0.028	142	642
700	0.481	0.449	2.901	2.374	34.493	4.46	194	97.2	27.672	1031.0	41.6	0.434	1462.1	0.035	117	691
750	0.522	0.487	2.981	2.416	34.513	4.45	194	97.2	27.686	1031.2	40.4	0.454	1463.1	0.035	112	741
800	0.549	0.511	3.046	2.444	34.526	4.45	193	97.2	27.695	1031.5	39.7	0.474	1464.1	0.042	117	790
850	0.567	0.527	3.103	2.463	34.534	4.44	193	97.2	27.701	1031.7	39.3	0.494	1465.0	0.041	128	839
900	0.581	0.538	3.155	2.477	34.539	4.44	193	97.2	27.704	1031.9	39.1	0.514	1465.9	0.040	133	888
950	0.599	0.553	3.211	2.495	34.546	4.43	192	97.2	27.708	1032.2	38.8	0.533	1466.8	0.047	141	938
1000	0.620	0.571	3.270	2.517	34.552	4.42	192	97.1	27.712	1032.4	38.5	0.553	1467.8	0.036	132	987
1184	0.730	0.668	3.520	2.628	34.586	4.45	193	96.9	27.734	1033.3	37.1	0.622	1471.4			1168

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	122B	2009/02/05	01:09	-74.2177	-112.5329	1184	10	1178	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
30	-1.324	-1.325	33.742	27.145	7.73	336				2149.0		15	30
74	-1.324	-1.325	33.836	27.221	6.61	287	33.833			2208.6		14,13	73
214	-1.486	-1.491	34.010	27.367	6.24	271				2205.1		12,11	212
355	-0.803	-0.814	34.130	27.441	5.39	234	34.132			2224.7		10,9	351
500	0.192	0.171	34.372	27.590	4.55	198	34.374			2240.4		8,7	494
772	0.537	0.501	34.519	27.690	4.46	194				2252.3		5	762
1050	0.654	0.602	34.562	27.719	4.43	192				2254.2		4,3	1037
1184	0.730	0.669	34.586	27.734	4.45	193	34.590	4.42	192	2255.2	-0.154	2	1168

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	122U	2009/02/05	01:42	-74.2173	-112.5326	1184	10	1178	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.191	-1.191	0.655	0.654	33.653	8.77	381	27.069	1027.1	98.3	0.001	1441.8	1
25	-1.276	-1.276	0.592	0.573	33.720	7.85	341	27.125	1027.2	92.8	0.024	1441.9	25
50	-1.359	-1.360	0.533	0.495	33.807	7.09	308	27.199	1027.4	85.7	0.047	1442.0	50
75	-1.324	-1.326	0.588	0.531	33.835	6.59	287	27.221	1027.6	83.5	0.068	1442.6	74
100	-1.424	-1.426	0.508	0.433	33.855	6.40	278	27.240	1027.7	81.5	0.088	1442.6	99
125	-1.394	-1.397	0.559	0.465	33.898	6.10	265	27.274	1027.9	78.1	0.108	1443.2	124
150	-1.275	-1.279	0.701	0.588	33.961	5.78	251	27.321	1028.0	73.6	0.127	1444.2	148
175	-1.306	-1.310	0.690	0.558	33.992	5.86	255	27.347	1028.2	71.0	0.145	1444.5	173
200	-1.358	-1.363	0.657	0.507	34.004	6.02	262	27.359	1028.3	69.7	0.163	1444.7	198
225	-1.473	-1.478	0.562	0.392	34.009	6.25	272	27.366	1028.4	68.8	0.180	1444.6	222
250	-1.185	-1.191	0.871	0.682	34.037	5.76	250	27.380	1028.6	67.6	0.197	1446.4	247
275	-1.130	-1.137	0.946	0.739	34.058	5.78	251	27.395	1028.7	66.1	0.214	1447.1	272
300	-1.018	-1.027	1.077	0.851	34.076	5.64	245	27.406	1028.8	65.1	0.230	1448.0	297
325	-1.173	-1.182	0.941	0.696	34.078	5.98	260	27.413	1029.0	64.2	0.246	1447.7	321
350	-0.793	-0.804	1.342	1.079	34.123	5.38	234	27.435	1029.1	62.4	0.262	1450.0	346
375	-0.906	-0.918	1.249	0.967	34.145	5.56	242	27.457	1029.2	60.1	0.277	1449.9	371
400	-1.059	-1.071	1.116	0.815	34.154	5.82	253	27.470	1029.4	58.6	0.292	1449.6	395
425	-0.545	-0.560	1.652	1.332	34.214	5.18	225	27.498	1029.5	56.5	0.307	1452.5	420
450	-0.057	-0.074	2.163	1.824	34.292	4.73	205	27.538	1029.7	53.3	0.320	1455.3	445
475	0.116	0.097	2.358	2.001	34.339	4.56	198	27.568	1029.8	50.7	0.333	1456.5	469
500	0.192	0.172	2.455	2.078	34.370	4.54	197	27.588	1030.0	48.9	0.346	1457.3	494
550	0.271	0.248	2.573	2.159	34.401	4.52	196	27.609	1030.2	47.1	0.370	1458.6	543
600	0.334	0.308	2.676	2.224	34.429	4.50	196	27.628	1030.5	45.4	0.393	1459.7	593
650	0.399	0.370	2.779	2.290	34.459	4.48	195	27.649	1030.7	43.6	0.415	1460.9	642
700	0.472	0.440	2.891	2.364	34.486	4.47	194	27.667	1031.0	42.1	0.437	1462.0	691
750	0.523	0.488	2.982	2.417	34.511	4.45	194	27.684	1031.2	40.7	0.457	1463.1	741
800	0.550	0.513	3.047	2.445	34.524	4.45	194	27.693	1031.5	39.9	0.477	1464.1	790
850	0.567	0.527	3.103	2.463	34.531	4.45	193	27.698	1031.7	39.6	0.497	1465.0	839
900	0.582	0.539	3.156	2.478	34.536	4.44	193	27.702	1031.9	39.3	0.517	1465.9	888
950	0.599	0.552	3.210	2.495	34.542	4.44	193	27.705	1032.2	39.1	0.537	1466.8	938
1000	0.618	0.569	3.268	2.515	34.548	4.43	193	27.709	1032.4	38.8	0.556	1467.8	987
1184	0.730	0.668	3.520	2.628	34.586	4.45	193	27.734	1033.3	37.1	0.626	1471.4	1168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Potential Temperature (°C)
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-0.5
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2.0
Pressure (dbar)
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100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
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33.0
33.2
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34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**123D**	2009/02/05	02:47	-74.2296	-112.1939	1013	10	1010	7	6.5	133	-1.9	985.8

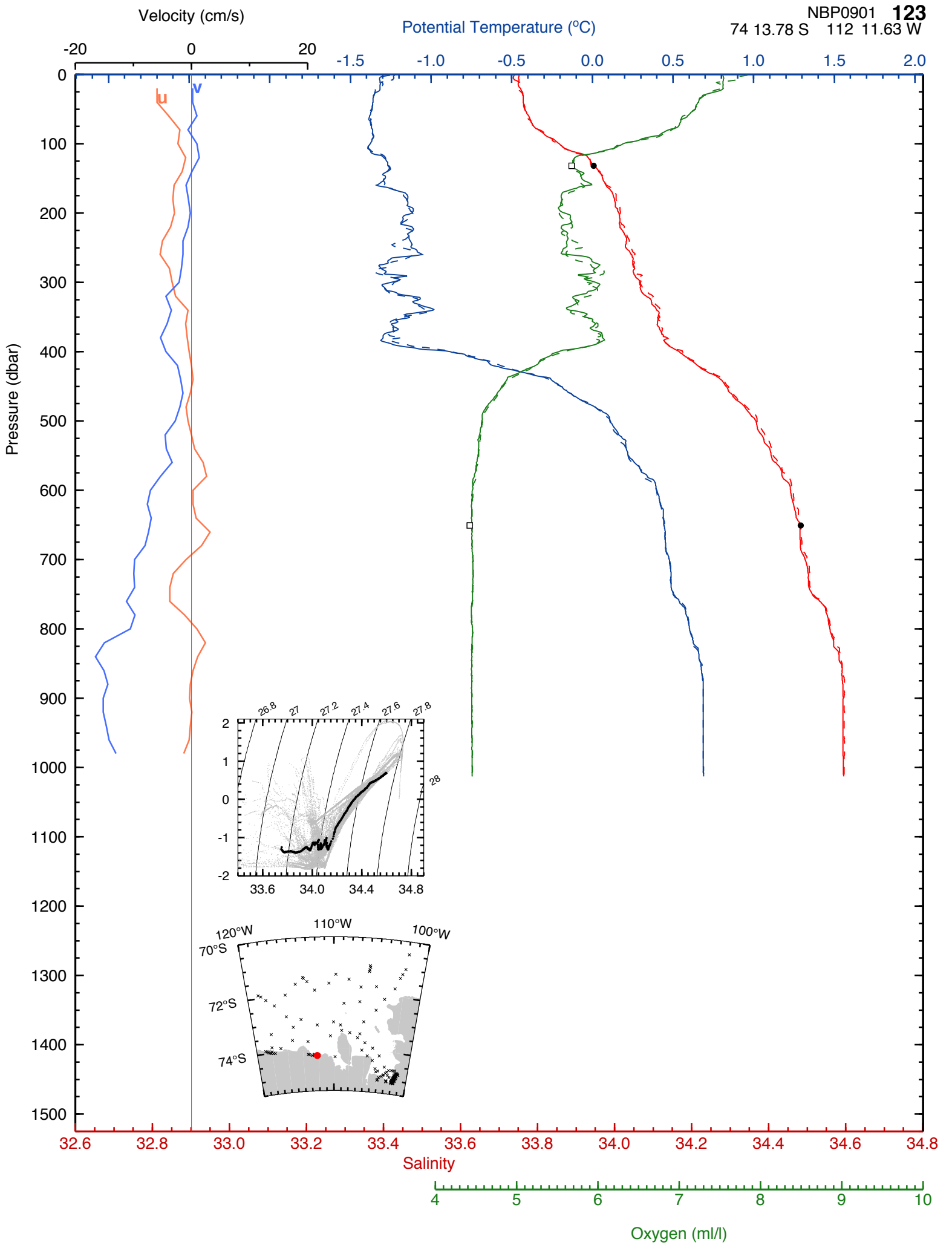
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.256	-1.256	0.596	0.595	33.752	7.53	327	89.0	27.150	1027.2	90.5	0.001	1441.6			1
25	-1.334	-1.334	0.536	0.517	33.757	7.44	324	89.2	27.157	1027.3	89.7	0.023	1441.6	0.059	272	25
50	-1.365	-1.366	0.525	0.487	33.767	7.20	313	91.5	27.166	1027.4	88.7	0.045	1441.9	0.050	277	50
75	-1.368	-1.370	0.541	0.485	33.788	6.99	304	93.1	27.183	1027.5	87.0	0.067	1442.3	0.026	262	74
100	-1.375	-1.378	0.556	0.481	33.853	6.31	274	95.7	27.237	1027.7	81.8	0.088	1442.8	0.025	289	99
125	-1.273	-1.276	0.682	0.588	33.938	5.70	248	96.6	27.302	1027.9	75.5	0.107	1443.8	0.016	314	124
150	-1.282	-1.285	0.695	0.582	33.971	5.80	252	96.7	27.329	1028.0	72.8	0.126	1444.2	0.022	265	148
175	-1.141	-1.146	0.856	0.724	34.004	5.55	241	96.8	27.352	1028.2	70.6	0.144	1445.3	0.032	258	173
200	-1.113	-1.119	0.903	0.753	34.015	5.59	243	96.7	27.359	1028.3	69.8	0.161	1445.9	0.029	266	198
225	-1.107	-1.113	0.928	0.759	34.026	5.58	243	96.8	27.369	1028.4	68.9	0.179	1446.3	0.038	260	222
250	-1.115	-1.122	0.941	0.752	34.042	5.59	243	96.9	27.382	1028.6	67.5	0.196	1446.7	0.053	254	247
275	-1.312	-1.319	0.763	0.556	34.049	6.02	262	97.0	27.394	1028.7	66.1	0.213	1446.2	0.048	249	272
300	-1.240	-1.248	0.855	0.629	34.067	5.97	260	97.0	27.406	1028.8	64.8	0.229	1447.0	0.040	239	297
325	-1.067	-1.076	1.048	0.804	34.099	5.73	249	97.0	27.426	1029.0	63.0	0.245	1448.2	0.051	210	321
350	-1.125	-1.135	1.010	0.747	34.118	5.84	254	97.0	27.443	1029.1	61.3	0.260	1448.4	0.038	191	346
375	-1.282	-1.292	0.873	0.591	34.123	6.05	263	97.1	27.453	1029.2	60.0	0.276	1448.1	0.048	190	371
400	-0.870	-0.883	1.306	1.005	34.176	5.52	240	97.0	27.481	1029.4	57.8	0.290	1450.5	0.046	186	395
425	-0.509	-0.524	1.689	1.369	34.233	5.12	223	96.9	27.512	1029.5	55.2	0.305	1452.7	0.024	180	420
450	-0.178	-0.195	2.043	1.704	34.295	4.82	209	97.0	27.547	1029.7	52.3	0.318	1454.7	0.018	175	445
475	-0.011	-0.030	2.230	1.873	34.332	4.66	202	97.0	27.568	1029.8	50.5	0.331	1455.9	0.018	195	469
500	0.128	0.108	2.391	2.014	34.370	4.57	199	97.1	27.592	1030.0	48.5	0.343	1457.0	0.027	196	494
550	0.246	0.223	2.549	2.135	34.413	4.52	197	97.1	27.620	1030.2	46.0	0.367	1458.5	0.042	169	543
600	0.425	0.399	2.768	2.317	34.462	4.46	194	97.1	27.650	1030.5	43.6	0.389	1460.2	0.067	169	593
650	0.472	0.443	2.854	2.365	34.480	4.44	193	97.1	27.662	1030.7	42.5	0.410	1461.2	0.070	172	642
700	0.508	0.476	2.929	2.401	34.501	4.46	194	97.1	27.677	1031.0	41.3	0.431	1462.2	0.091	178	691
750	0.534	0.500	2.993	2.429	34.515	4.46	194	97.2	27.687	1031.2	40.4	0.452	1463.2	0.105	201	741
800	0.640	0.602	3.140	2.537	34.562	4.46	194	97.1	27.718	1031.5	37.7	0.471	1464.6	0.102	181	790
850	0.714	0.673	3.253	2.613	34.590	4.45	193	96.9	27.737	1031.7	36.2	0.490	1465.8	0.165	176	839
900	0.731	0.686	3.307	2.630	34.596	4.45	193	96.8	27.741	1032.0	36.0	0.508	1466.7	0.147	181	888
950	0.734	0.687	3.349	2.633	34.596	4.45	193	96.8	27.741	1032.2	36.1	0.526	1467.5	0.148	181	938
1000	0.738	0.688	3.390	2.637	34.596	4.45	193	96.8	27.741	1032.4	36.2	0.544	1468.4			987
1013	0.739	0.688	3.401	2.638	34.595	4.46	194	96.8	27.740	1032.5	36.3	0.549	1468.6			1000

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	123B	2009/02/05	03:11	-74.2291	-112.1934	1013	10	1010	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.288	-1.289	33.750	27.150	7.61	331						13	9
132	-1.270	-1.273	33.964	27.323	5.74	250	33.946	5.67	247			11	130
193	-1.124	-1.129	34.011	27.356	5.54	241						9	191
279	-1.292	-1.299	34.051	27.395	6.00	261						7	276
372	-1.252	-1.262	34.126	27.454	6.00	261						5	368
650	0.479	0.450	34.483	27.664	4.45	194	34.483	4.43	192		-0.135	3	643
1013	0.739	0.688	34.595	27.740	4.45	194						2	1000

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	123U	2009/02/05	03:37	-74.2287	-112.1936	1013	10	1010	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.227	-1.227	0.624	0.623	33.739	7.84	341	27.140	1027.1	91.5	0.001	1441.7	1
25	-1.347	-1.347	0.523	0.504	33.760	7.40	322	27.160	1027.3	89.4	0.023	1441.6	25
50	-1.369	-1.370	0.521	0.483	33.767	7.19	313	27.166	1027.4	88.7	0.045	1441.9	50
75	-1.370	-1.372	0.540	0.483	33.790	6.96	302	27.185	1027.5	86.8	0.067	1442.3	74
100	-1.381	-1.383	0.551	0.476	33.856	6.31	274	27.239	1027.7	81.6	0.088	1442.8	99
125	-1.266	-1.269	0.689	0.595	33.937	5.69	247	27.301	1027.9	75.6	0.108	1443.8	124
150	-1.287	-1.290	0.690	0.577	33.969	5.80	252	27.328	1028.0	72.9	0.126	1444.2	148
175	-1.167	-1.172	0.829	0.698	33.997	5.60	244	27.346	1028.2	71.1	0.144	1445.2	173
200	-1.110	-1.115	0.906	0.756	34.011	5.53	240	27.356	1028.3	70.1	0.162	1445.9	198
225	-1.112	-1.118	0.923	0.754	34.020	5.60	243	27.364	1028.4	69.3	0.179	1446.3	222
250	-1.186	-1.192	0.869	0.681	34.030	5.79	252	27.374	1028.6	68.2	0.196	1446.4	247
275	-1.258	-1.265	0.817	0.610	34.047	5.92	257	27.391	1028.7	66.4	0.213	1446.5	272
300	-1.220	-1.228	0.875	0.649	34.065	5.86	255	27.404	1028.8	65.1	0.230	1447.1	297
325	-1.072	-1.081	1.043	0.798	34.094	5.72	249	27.422	1029.0	63.4	0.246	1448.2	321
350	-1.163	-1.173	0.972	0.708	34.113	5.85	254	27.441	1029.1	61.5	0.261	1448.2	346
375	-1.261	-1.271	0.894	0.611	34.123	6.03	262	27.452	1029.2	60.2	0.276	1448.2	371
400	-0.866	-0.879	1.309	1.008	34.167	5.59	243	27.474	1029.4	58.5	0.291	1450.5	395
425	-0.487	-0.501	1.711	1.391	34.227	5.16	224	27.506	1029.5	55.8	0.306	1452.8	420
450	-0.179	-0.195	2.042	1.703	34.289	4.83	210	27.543	1029.7	52.8	0.319	1454.7	445
475	0.005	-0.014	2.246	1.889	34.330	4.68	203	27.566	1029.8	50.8	0.332	1456.0	469
500	0.132	0.111	2.394	2.018	34.367	4.58	199	27.589	1030.0	48.8	0.345	1457.0	494
550	0.243	0.220	2.545	2.131	34.407	4.53	197	27.616	1030.2	46.4	0.368	1458.4	543
600	0.423	0.397	2.766	2.315	34.457	4.46	194	27.646	1030.5	43.9	0.391	1460.2	593
650	0.478	0.449	2.860	2.370	34.481	4.46	194	27.663	1030.7	42.5	0.413	1461.2	642
700	0.504	0.472	2.924	2.397	34.495	4.46	194	27.672	1031.0	41.7	0.434	1462.2	691
750	0.540	0.505	2.999	2.434	34.513	4.46	194	27.685	1031.2	40.6	0.454	1463.2	741
800	0.643	0.605	3.142	2.540	34.559	4.45	193	27.716	1031.5	38.0	0.474	1464.6	790
850	0.717	0.675	3.256	2.616	34.588	4.45	193	27.735	1031.7	36.5	0.492	1465.8	839
900	0.732	0.688	3.309	2.631	34.593	4.45	193	27.739	1032.0	36.2	0.510	1466.7	888
950	0.734	0.687	3.349	2.633	34.593	4.45	194	27.738	1032.2	36.3	0.529	1467.5	938
1000	0.738	0.688	3.390	2.637	34.594	4.46	194	27.739	1032.4	36.4	0.547	1468.4	987
1013	0.739	0.688	3.401	2.638	34.595	4.46	194	27.740	1032.5	36.3	0.552	1468.6	1000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NBP0901 123
74 13.78 S 112 11.63 W
Pressure (dbar)
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120°W
110°W
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34.6
34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**124D**	2009/02/05	04:23	-74.2202	-111.9415	593	10	595	7	10.3	93	-1.0	984.7

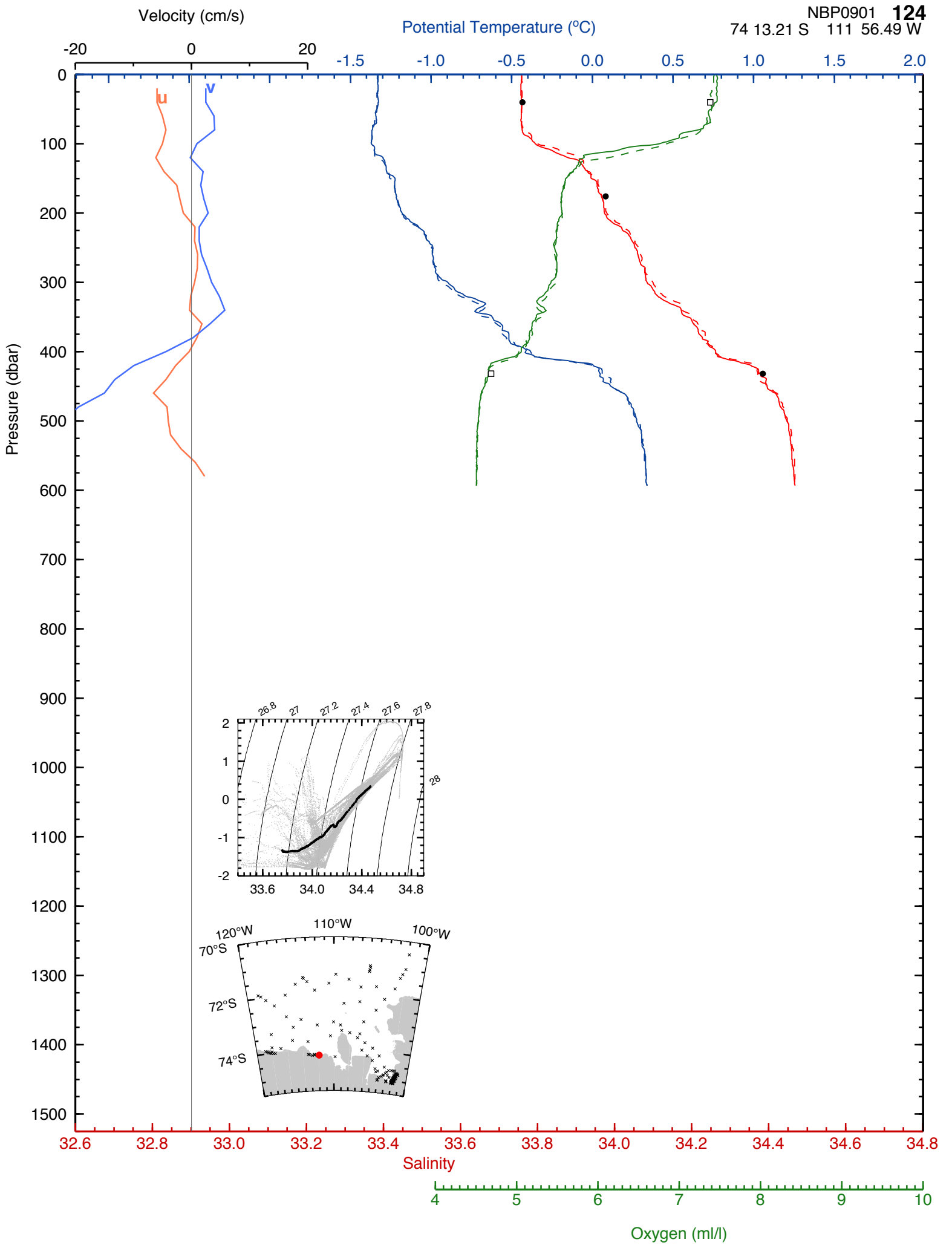
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.328	-1.328	0.524	0.524	33.758	7.46	324	89.2	27.158	1027.2	89.8	0.001	1441.3			1
25	-1.331	-1.331	0.539	0.521	33.759	7.47	325	89.5	27.159	1027.3	89.6	0.022	1441.7	0.064	293	25
50	-1.334	-1.335	0.554	0.517	33.759	7.39	321	89.9	27.159	1027.4	89.5	0.045	1442.0	0.064	300	50
75	-1.361	-1.363	0.546	0.490	33.761	7.30	317	90.8	27.161	1027.5	89.1	0.067	1442.3	0.060	311	74
100	-1.369	-1.371	0.560	0.485	33.800	6.76	294	93.7	27.193	1027.7	85.9	0.089	1442.8	0.051	282	99
125	-1.285	-1.288	0.670	0.576	33.919	5.77	251	95.9	27.287	1027.9	76.9	0.109	1443.7	0.059	273	124
150	-1.220	-1.224	0.755	0.642	33.955	5.61	244	96.4	27.314	1028.0	74.2	0.128	1444.5	0.042	297	148
175	-1.212	-1.216	0.783	0.652	33.967	5.56	242	96.6	27.323	1028.2	73.3	0.147	1444.9	0.029	312	173
200	-1.174	-1.179	0.840	0.690	33.980	5.56	242	96.6	27.333	1028.3	72.3	0.165	1445.5	0.032	332	198
225	-1.045	-1.051	0.991	0.822	34.035	5.49	239	96.7	27.373	1028.5	68.5	0.182	1446.6	0.014	24	222
250	-0.982	-0.989	1.075	0.887	34.062	5.46	238	96.8	27.392	1028.6	66.6	0.199	1447.4	0.016	25	247
275	-0.972	-0.980	1.104	0.897	34.077	5.50	239	96.8	27.404	1028.7	65.4	0.216	1447.8	0.025	25	272
300	-0.888	-0.897	1.209	0.983	34.099	5.42	236	96.8	27.419	1028.9	63.9	0.232	1448.7	0.034	10	297
325	-0.704	-0.714	1.414	1.170	34.148	5.26	229	96.8	27.451	1029.0	61.0	0.248	1450.0	0.049	359	321
350	-0.609	-0.620	1.531	1.268	34.203	5.24	228	96.8	27.492	1029.2	57.2	0.262	1450.9	0.051	260	346
375	-0.506	-0.519	1.655	1.373	34.235	5.16	224	96.8	27.514	1029.3	55.2	0.277	1451.9	0.022	52	371
400	-0.401	-0.415	1.780	1.479	34.259	5.06	220	96.8	27.529	1029.4	53.9	0.290	1452.8	0.036	159	395
425	0.059	0.042	2.265	1.945	34.372	4.66	202	96.9	27.597	1029.6	48.0	0.303	1455.5	0.103	195	420
450	0.134	0.116	2.360	2.022	34.396	4.61	200	96.9	27.612	1029.7	46.6	0.315	1456.3	0.145	200	445
475	0.258	0.239	2.506	2.148	34.436	4.54	197	97.0	27.638	1029.9	44.3	0.326	1457.3	0.180	198	469
500	0.295	0.274	2.562	2.186	34.449	4.53	197	97.0	27.646	1030.0	43.6	0.337	1457.9	0.217	191	494
550	0.351	0.328	2.657	2.243	34.467	4.51	196	97.0	27.658	1030.3	42.6	0.359	1459.0	0.238	183	543
593	0.365	0.339	2.703	2.256	34.469	4.51	196	97.0	27.659	1030.5	42.6	0.377	1459.8			586

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	124B	2009/02/05	04:38	-74.2207	-111.9418	593	10	595	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD		SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg		pss-78	ml/l	um/kg	um/kg	o/oo		m
40	-1.339	-1.339	33.759	27.159	7.39	321		33.761	7.38	321			13	40
141	-1.261	-1.265	33.934	27.299	5.67	246							12	139
176	-1.211	-1.216	33.967	27.323	5.55	241		33.977					9	174
279	-0.948	-0.956	34.082	27.408	5.48	238							7	276
383	-0.477	-0.490	34.238	27.515	5.14	223							5	379
432	0.080	0.063	34.376	27.599	4.64	202		34.385	4.69	204			3	427
593	0.364	0.338	34.468	27.659	4.51	196							2	585

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	124U	2009/02/05	04:55	-74.2202	-111.9416	593	10	595	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.334	-1.334	0.518	0.517	33.759	7.43	323	27.159	1027.2	89.7	0.001	1441.2	1
25	-1.333	-1.334	0.537	0.518	33.757	7.40	322	27.157	1027.3	89.7	0.022	1441.6	25
50	-1.334	-1.335	0.555	0.517	33.758	7.40	322	27.158	1027.4	89.5	0.045	1442.0	50
75	-1.356	-1.358	0.552	0.495	33.759	7.31	318	27.159	1027.5	89.3	0.067	1442.3	74
100	-1.368	-1.371	0.560	0.485	33.794	6.85	298	27.189	1027.7	86.3	0.089	1442.7	99
125	-1.294	-1.297	0.660	0.565	33.909	5.83	253	27.279	1027.9	77.6	0.110	1443.7	124
150	-1.251	-1.255	0.723	0.611	33.940	5.65	246	27.303	1028.0	75.3	0.129	1444.3	148
175	-1.209	-1.213	0.786	0.654	33.966	5.55	241	27.323	1028.2	73.4	0.147	1445.0	173
200	-1.182	-1.187	0.832	0.682	33.974	5.56	242	27.328	1028.3	72.7	0.166	1445.5	198
225	-1.065	-1.071	0.971	0.801	34.022	5.50	239	27.363	1028.4	69.4	0.183	1446.5	222
250	-0.990	-0.997	1.066	0.878	34.053	5.46	237	27.386	1028.6	67.2	0.200	1447.3	247
275	-0.974	-0.982	1.102	0.895	34.069	5.49	239	27.398	1028.7	65.9	0.217	1447.8	272
300	-0.935	-0.943	1.161	0.935	34.084	5.48	238	27.409	1028.8	64.9	0.233	1448.4	297
325	-0.758	-0.768	1.359	1.114	34.126	5.34	232	27.436	1029.0	62.4	0.249	1449.7	321
350	-0.646	-0.657	1.493	1.230	34.191	5.31	231	27.484	1029.2	57.9	0.264	1450.8	346
375	-0.544	-0.557	1.616	1.333	34.220	5.19	226	27.503	1029.3	56.1	0.279	1451.7	371
400	-0.370	-0.384	1.811	1.510	34.263	5.03	219	27.530	1029.4	53.8	0.292	1453.0	395
425	0.074	0.057	2.280	1.960	34.373	4.65	202	27.597	1029.6	48.0	0.305	1455.6	420
450	0.145	0.127	2.371	2.032	34.396	4.60	200	27.612	1029.7	46.7	0.317	1456.3	445
475	0.247	0.227	2.494	2.136	34.428	4.55	198	27.632	1029.9	44.9	0.328	1457.2	469
500	0.303	0.282	2.570	2.194	34.448	4.53	197	27.645	1030.0	43.8	0.339	1458.0	494
550	0.345	0.322	2.651	2.237	34.460	4.52	196	27.653	1030.3	43.1	0.361	1459.0	543
593	0.365	0.339	2.703	2.256	34.469	4.51	196	27.659	1030.5	42.6	0.379	1459.8	586


NBP0901 124
74 13.21 S 111 56.49 W
Velocity (cm/s)
-20
0
20
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v
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**125D**	2009/02/05	07:41	-74.1927	-112.5208	1066	9	1061	7	6.4	129	-1.7	984.8

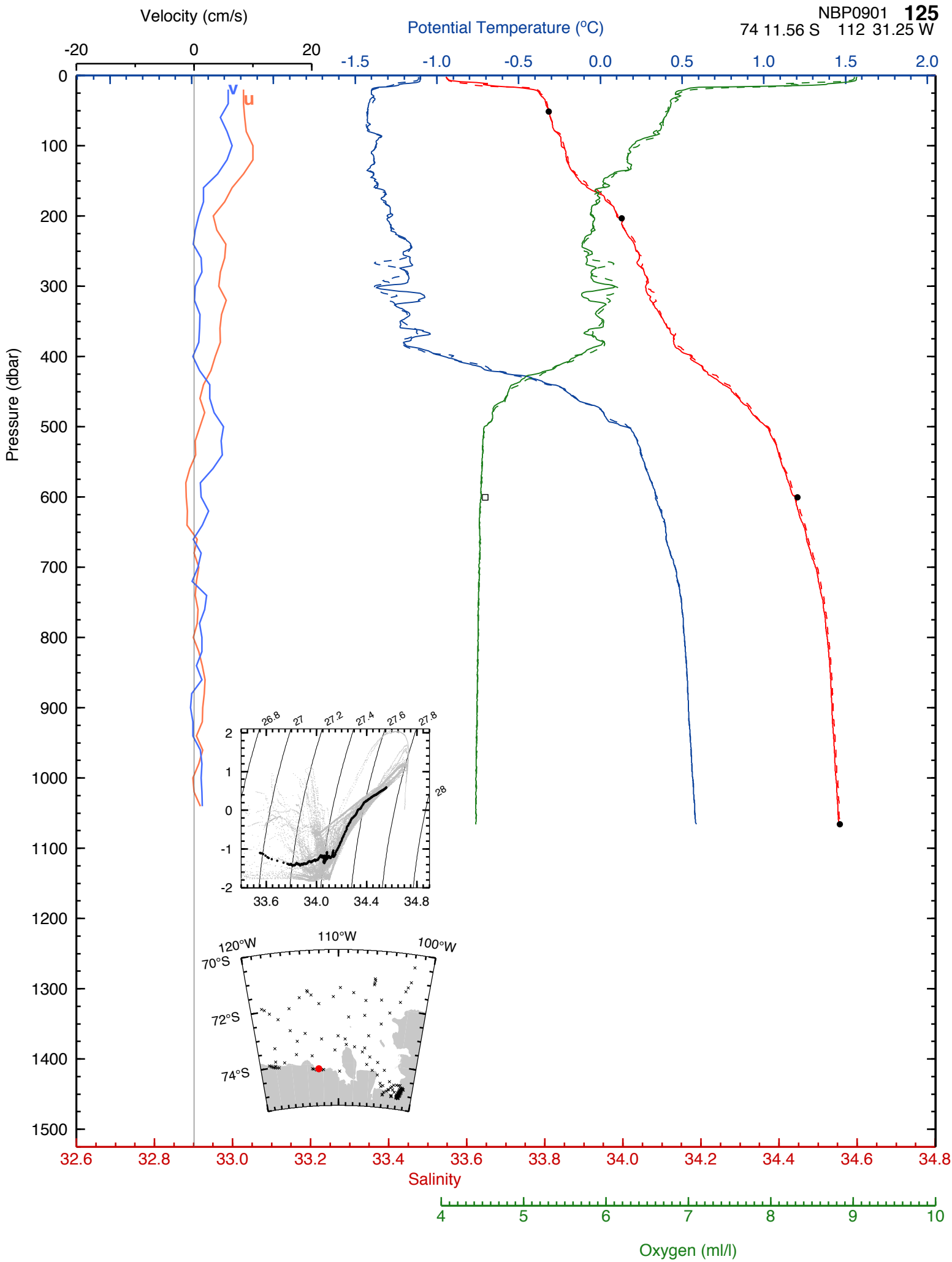
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.103	-1.103	0.738	0.736	33.549	9.04	393	72.7	26.981	1027.0	106.6	0.002	1442.1			2
25	-1.401	-1.401	0.471	0.452	33.788	6.84	297	94.3	27.185	1027.3	87.1	0.025	1441.4	0.102	55	25
50	-1.422	-1.423	0.470	0.432	33.810	6.76	294	94.2	27.203	1027.4	85.2	0.046	1441.7	0.100	59	50
75	-1.424	-1.425	0.488	0.431	33.824	6.67	290	94.7	27.214	1027.6	84.1	0.067	1442.1	0.103	59	74
100	-1.373	-1.375	0.559	0.483	33.849	6.32	275	95.9	27.233	1027.7	82.1	0.088	1442.8	0.118	57	99
125	-1.381	-1.384	0.570	0.476	33.861	6.28	273	96.3	27.244	1027.8	81.0	0.108	1443.2	0.111	61	124
150	-1.379	-1.383	0.593	0.480	33.899	5.96	259	96.5	27.274	1028.0	78.0	0.128	1443.6	0.082	69	148
175	-1.337	-1.341	0.657	0.525	33.958	5.92	258	96.7	27.320	1028.2	73.5	0.147	1444.3	0.059	74	173
200	-1.271	-1.276	0.744	0.594	33.987	5.83	253	96.8	27.342	1028.3	71.4	0.165	1445.1	0.036	76	198
225	-1.245	-1.251	0.790	0.620	34.014	5.82	253	96.9	27.363	1028.4	69.3	0.183	1445.7	0.041	88	222
250	-1.188	-1.194	0.867	0.679	34.037	5.82	253	96.9	27.380	1028.6	67.6	0.200	1446.4	0.054	86	247
275	-1.217	-1.224	0.858	0.651	34.050	5.87	255	96.9	27.392	1028.7	66.3	0.217	1446.7	0.049	75	272
300	-1.338	-1.345	0.756	0.531	34.057	6.11	265	97.0	27.401	1028.8	65.2	0.233	1446.5	0.043	85	297
325	-1.233	-1.242	0.881	0.636	34.078	6.00	261	96.9	27.415	1029.0	63.9	0.249	1447.4	0.055	88	321
350	-1.218	-1.227	0.917	0.653	34.108	5.97	260	97.0	27.439	1029.1	61.6	0.265	1448.0	0.047	78	346
375	-1.147	-1.157	1.008	0.726	34.132	5.88	256	97.0	27.455	1029.2	60.0	0.280	1448.7	0.045	79	371
400	-0.945	-0.957	1.231	0.930	34.175	5.64	245	97.1	27.483	1029.4	57.5	0.295	1450.2	0.038	90	395
425	-0.550	-0.564	1.648	1.328	34.228	5.14	224	97.0	27.510	1029.5	55.4	0.309	1452.5	0.030	73	420
450	-0.190	-0.207	2.030	1.691	34.284	4.82	209	96.9	27.539	1029.7	53.1	0.322	1454.6	0.030	28	445
475	0.021	0.002	2.262	1.905	34.330	4.63	201	97.0	27.565	1029.8	50.9	0.335	1456.1	0.033	24	469
500	0.173	0.153	2.436	2.059	34.372	4.53	197	97.0	27.591	1030.0	48.6	0.348	1457.2	0.047	16	494
550	0.291	0.267	2.593	2.179	34.409	4.50	195	97.1	27.614	1030.2	46.6	0.372	1458.7	0.045	62	543
600	0.364	0.338	2.706	2.254	34.441	4.49	195	97.1	27.637	1030.5	44.7	0.395	1459.9	0.018	311	593
650	0.428	0.399	2.809	2.320	34.472	4.47	194	97.2	27.658	1030.7	42.8	0.416	1461.0	0.017	297	642
700	0.489	0.457	2.909	2.382	34.498	4.46	194	97.2	27.675	1031.0	41.3	0.437	1462.2	0.011	28	691
750	0.530	0.495	2.989	2.424	34.516	4.45	193	97.2	27.688	1031.2	40.3	0.458	1463.2	0.021	6	741
800	0.552	0.514	3.049	2.447	34.527	4.45	193	97.2	27.696	1031.5	39.6	0.478	1464.1	0.011	192	790
850	0.569	0.529	3.105	2.465	34.535	4.44	193	97.2	27.701	1031.7	39.3	0.498	1465.0	0.015	72	839
900	0.582	0.539	3.155	2.478	34.539	4.44	193	97.2	27.704	1031.9	39.1	0.517	1465.9	0.017	107	888
950	0.598	0.552	3.209	2.494	34.544	4.43	192	97.2	27.707	1032.2	38.9	0.537	1466.8	0.005	115	938
1000	0.613	0.564	3.262	2.509	34.549	4.42	192	97.2	27.710	1032.4	38.7	0.556	1467.7	0.014	143	987
1066	0.640	0.587	3.339	2.537	34.556	4.42	192	97.1	27.715	1032.7	38.4	0.581	1469.0			1052

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	125B	2009/02/05	08:05	-74.1928	-112.5209	1066	9	1061	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
7	-1.136	-1.136	33.568	26.998	8.93	388						13	7
51	-1.426	-1.427	33.813	27.206	6.72	292	33.810					12	51
103	-1.369	-1.372	33.849	27.233	6.33	275						10	102
203	-1.282	-1.287	33.997	27.351	5.83	254	33.997					7	201
252	-1.186	-1.192	34.041	27.383	5.78	251						5	249
601	0.382	0.356	34.446	27.640	4.48	195	34.447	4.53	197			3	593
1066	0.636	0.583	34.555	27.714	4.42	192	34.555				-0.163	2	1052

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	125U	2009/02/05	08:33	-74.1929	-112.5211	1066	9	1061	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	-1.113	-1.113	0.728	0.726	33.547	9.01	392	26.980	1027.0	106.7	0.002	1442.0	2
25	-1.403	-1.404	0.468	0.449	33.786	6.89	299	27.183	1027.3	87.3	0.024	1441.3	25
50	-1.423	-1.424	0.469	0.431	33.808	6.76	294	27.202	1027.4	85.4	0.046	1441.7	50
75	-1.425	-1.427	0.486	0.430	33.821	6.68	290	27.212	1027.6	84.3	0.067	1442.1	74
100	-1.371	-1.373	0.560	0.485	33.843	6.39	278	27.228	1027.7	82.6	0.088	1442.8	99
125	-1.379	-1.382	0.572	0.478	33.859	6.24	271	27.242	1027.8	81.2	0.108	1443.2	124
150	-1.377	-1.380	0.595	0.482	33.889	6.02	262	27.266	1028.0	78.7	0.128	1443.6	148
175	-1.333	-1.337	0.661	0.529	33.953	5.89	256	27.317	1028.2	73.8	0.147	1444.3	173
200	-1.300	-1.305	0.715	0.564	33.984	5.85	254	27.341	1028.3	71.5	0.166	1445.0	198
225	-1.238	-1.243	0.797	0.628	34.010	5.82	253	27.360	1028.4	69.6	0.183	1445.7	222
250	-1.166	-1.173	0.889	0.701	34.034	5.74	249	27.377	1028.6	67.9	0.200	1446.5	247
275	-1.205	-1.212	0.870	0.663	34.051	5.87	255	27.392	1028.7	66.3	0.217	1446.7	272
300	-1.375	-1.383	0.719	0.493	34.058	6.10	265	27.403	1028.8	65.0	0.233	1446.3	297
325	-1.249	-1.258	0.865	0.620	34.077	6.00	261	27.415	1029.0	63.9	0.250	1447.3	321
350	-1.205	-1.214	0.930	0.666	34.105	5.96	259	27.436	1029.1	61.9	0.265	1448.0	346
375	-1.183	-1.193	0.972	0.690	34.130	5.90	256	27.455	1029.2	60.0	0.281	1448.5	371
400	-0.890	-0.902	1.286	0.985	34.178	5.59	243	27.483	1029.4	57.6	0.295	1450.4	395
425	-0.554	-0.569	1.643	1.323	34.218	5.22	227	27.502	1029.5	56.1	0.310	1452.5	420
450	-0.189	-0.205	2.031	1.692	34.280	4.82	210	27.535	1029.7	53.4	0.323	1454.6	445
475	0.015	-0.004	2.256	1.898	34.324	4.65	202	27.561	1029.8	51.3	0.336	1456.0	469
500	0.188	0.168	2.451	2.074	34.367	4.54	197	27.587	1030.0	49.1	0.349	1457.3	494
550	0.292	0.269	2.595	2.181	34.406	4.50	195	27.612	1030.2	46.9	0.373	1458.7	543
600	0.372	0.346	2.714	2.262	34.441	4.48	195	27.637	1030.5	44.7	0.396	1459.9	593
650	0.429	0.401	2.811	2.321	34.468	4.47	194	27.655	1030.7	43.1	0.418	1461.0	642
700	0.488	0.456	2.908	2.381	34.493	4.47	194	27.672	1031.0	41.7	0.439	1462.1	691
750	0.530	0.496	2.989	2.424	34.513	4.46	194	27.685	1031.2	40.6	0.460	1463.2	741
800	0.552	0.514	3.049	2.447	34.524	4.45	193	27.693	1031.5	39.9	0.480	1464.1	790
850	0.569	0.529	3.105	2.465	34.531	4.45	193	27.698	1031.7	39.5	0.500	1465.0	839
900	0.582	0.539	3.155	2.478	34.536	4.44	193	27.701	1031.9	39.3	0.519	1465.9	888
950	0.597	0.551	3.208	2.492	34.541	4.43	193	27.704	1032.2	39.1	0.539	1466.8	938
1000	0.612	0.564	3.262	2.509	34.545	4.43	192	27.708	1032.4	38.9	0.559	1467.7	987
1066	0.640	0.587	3.339	2.537	34.556	4.42	192	27.715	1032.7	38.4	0.584	1469.0	1052


NBP0901 125
74 11.56 S 112 31.25 W
Velocity (cm/s)
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0
20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**126D**	2009/02/06	09:18	-74.2856	-109.8449	892	12	892	8	12.2	165	-3.4	974.3

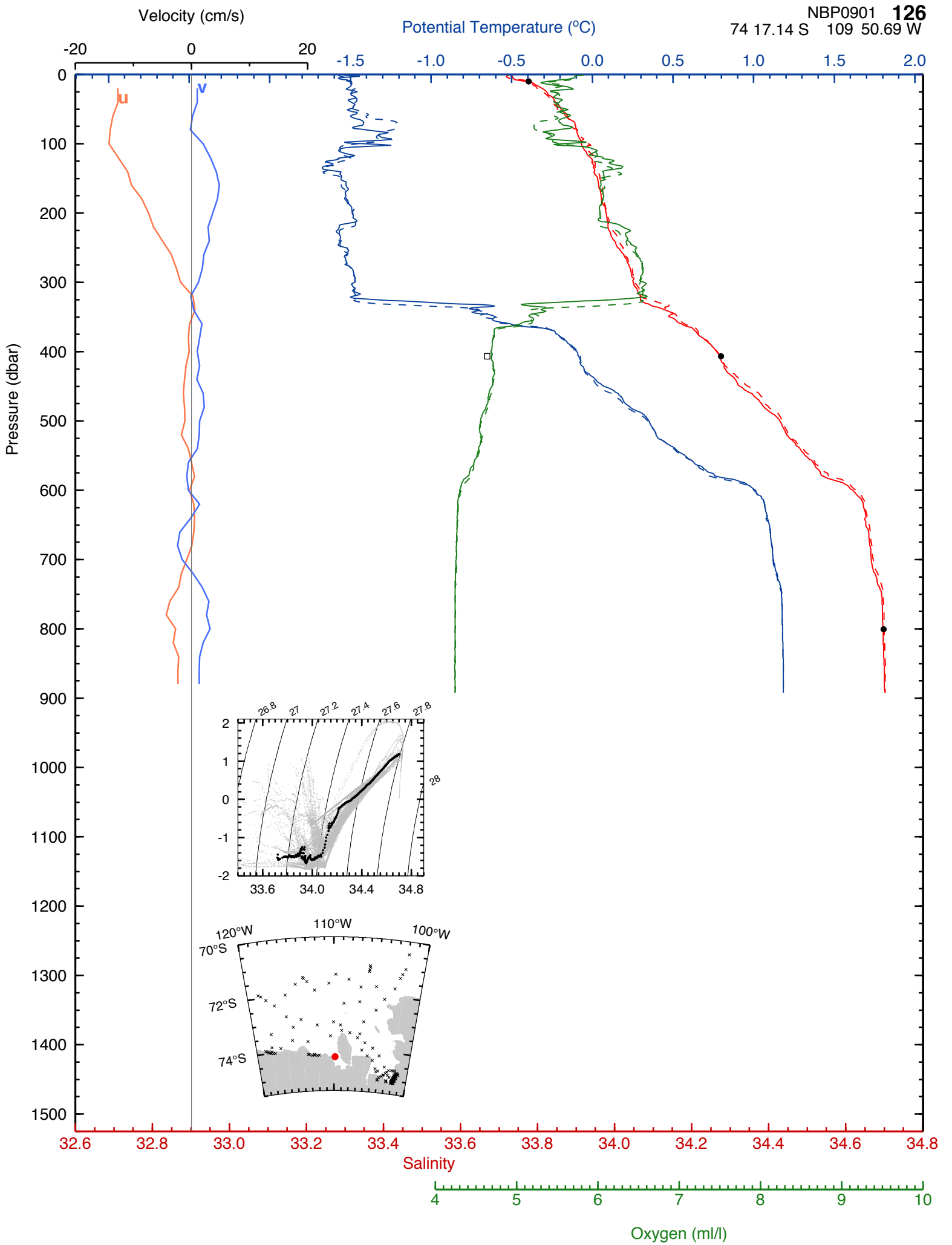
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.542	-1.542	0.308	0.307	33.726	5.73	249	96.2	27.139	1027.1	91.6	0.001	1440.2			1
25	-1.461	-1.462	0.412	0.394	33.816	5.43	236	96.5	27.209	1027.3	84.8	0.022	1441.1	0.127	274	25
50	-1.510	-1.511	0.384	0.346	33.852	5.62	244	96.7	27.240	1027.5	81.8	0.043	1441.3	0.131	273	50
75	-1.459	-1.461	0.456	0.399	33.889	5.66	246	96.8	27.268	1027.6	78.9	0.063	1442.0	0.139	270	74
100	-1.412	-1.414	0.525	0.449	33.931	5.56	242	97.0	27.300	1027.8	75.7	0.082	1442.7	0.143	278	99
125	-1.647	-1.649	0.309	0.215	33.943	6.20	269	97.1	27.318	1027.9	73.9	0.101	1442.0	0.128	286	124
150	-1.556	-1.559	0.420	0.307	33.962	6.07	264	97.2	27.330	1028.1	72.6	0.119	1442.9	0.116	293	148
175	-1.526	-1.530	0.469	0.338	33.971	6.07	264	97.2	27.337	1028.2	71.8	0.137	1443.5	0.102	297	173
200	-1.480	-1.485	0.534	0.384	33.981	6.02	262	97.2	27.344	1028.3	71.1	0.155	1444.1	0.085	297	198
225	-1.579	-1.584	0.455	0.286	33.995	6.40	278	97.2	27.358	1028.4	69.5	0.173	1444.0	0.070	295	222
250	-1.518	-1.524	0.537	0.348	34.023	6.48	282	97.2	27.379	1028.6	67.5	0.190	1444.8	0.052	302	247
275	-1.521	-1.528	0.553	0.346	34.041	6.54	284	96.7	27.394	1028.7	65.9	0.207	1445.2	0.036	304	272
300	-1.469	-1.476	0.625	0.399	34.053	6.57	286	96.6	27.402	1028.8	65.1	0.223	1445.9	0.024	303	297
325	-1.328	-1.337	0.787	0.542	34.089	6.17	268	96.7	27.427	1029.0	62.7	0.239	1447.0	0.003	105	321
350	-0.586	-0.597	1.552	1.288	34.163	5.17	225	96.8	27.459	1029.1	60.3	0.254	1451.0	0.010	144	346
375	-0.205	-0.218	1.955	1.673	34.221	4.72	205	96.3	27.488	1029.3	57.9	0.269	1453.3	0.016	345	371
400	-0.081	-0.096	2.101	1.800	34.267	4.69	204	96.4	27.519	1029.4	55.1	0.283	1454.3	0.012	339	395
425	-0.035	-0.051	2.167	1.847	34.294	4.72	205	96.6	27.539	1029.6	53.3	0.297	1455.0	0.017	327	420
450	0.091	0.073	2.315	1.976	34.347	4.69	204	96.8	27.575	1029.7	50.1	0.310	1456.0	0.017	311	445
475	0.224	0.205	2.469	2.111	34.391	4.64	202	97.0	27.603	1029.9	47.6	0.322	1457.1	0.025	328	469
500	0.372	0.350	2.638	2.262	34.435	4.56	198	97.1	27.631	1030.0	45.1	0.333	1458.2	0.020	325	494
550	0.598	0.574	2.906	2.492	34.506	4.51	196	97.3	27.675	1030.3	41.4	0.355	1460.2	0.010	308	543
600	1.039	1.010	3.392	2.940	34.626	4.30	187	97.4	27.744	1030.6	35.7	0.375	1463.2	0.007	188	593
650	1.130	1.097	3.522	3.033	34.661	4.27	185	97.1	27.767	1030.8	33.9	0.392	1464.4	0.007	108	642
700	1.157	1.122	3.588	3.061	34.672	4.26	185	97.0	27.773	1031.1	33.5	0.409	1465.4	0.021	194	691
750	1.212	1.173	3.681	3.117	34.697	4.24	184	97.1	27.791	1031.3	32.2	0.425	1466.5	0.030	311	741
800	1.220	1.178	3.728	3.125	34.700	4.24	184	97.1	27.792	1031.5	32.2	0.441	1467.4	0.046	310	790
850	1.228	1.183	3.774	3.134	34.703	4.24	184	97.1	27.794	1031.8	32.1	0.457	1468.2	0.026	303	839
892	1.231	1.184	3.808	3.136	34.703	4.24	184	97.0	27.794	1032.0	32.3	0.471	1468.9	0.026	300	881

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	126B	2009/02/06	09:40	-74.2856	-109.8446	892	12	892	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
1	-1.552	-1.552	33.742	27.152	5.66	246				2194.9		19	1
10	-1.514	-1.514	33.770	27.173	5.48	238	33.777					13	10
191	-1.477	-1.482	33.976	27.340	6.00	261				2210.8		12	189
295	-1.466	-1.474	34.052	27.401	6.54	284				2211.0		9	292
407	-0.061	-0.077	34.274	27.524	4.68	204	34.277	4.64	201	2234.9		7	402
632	1.107	1.075	34.651	27.760	4.28	186				2261.7		5	624
800	1.220	1.178	34.698	27.791	4.24	184	34.698			2223.7		3	790
892	1.231	1.184	34.703	27.794	4.24	184				2267.3		2	880

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	126U	2009/02/06	10:04	-74.2857	-109.8454	892	12	892	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.577	-1.577	0.274	0.273	33.730	5.82	253	27.142	1027.1	91.3	0.001	1440.1	1
25	-1.490	-1.491	0.383	0.365	33.824	5.47	238	27.216	1027.3	84.2	0.022	1441.0	25
50	-1.479	-1.480	0.416	0.378	33.861	5.59	243	27.246	1027.5	81.1	0.043	1441.5	50
75	-1.215	-1.216	0.701	0.645	33.899	5.21	227	27.268	1027.6	79.0	0.063	1443.2	74
100	-1.452	-1.454	0.484	0.409	33.913	5.54	241	27.288	1027.8	76.9	0.082	1442.5	99
125	-1.551	-1.554	0.404	0.310	33.942	5.96	259	27.314	1027.9	74.3	0.101	1442.5	124
150	-1.556	-1.559	0.420	0.307	33.956	6.07	264	27.326	1028.0	73.0	0.119	1442.9	148
175	-1.526	-1.530	0.469	0.337	33.965	6.04	263	27.332	1028.2	72.3	0.138	1443.4	173
200	-1.485	-1.489	0.530	0.379	33.978	6.03	262	27.342	1028.3	71.3	0.155	1444.1	198
225	-1.561	-1.567	0.472	0.303	33.986	6.22	271	27.350	1028.4	70.3	0.173	1444.1	222
250	-1.559	-1.565	0.495	0.306	34.009	6.38	277	27.369	1028.6	68.4	0.191	1444.6	247
275	-1.515	-1.521	0.559	0.352	34.037	6.55	285	27.390	1028.7	66.2	0.207	1445.2	272
300	-1.464	-1.472	0.629	0.403	34.049	6.52	283	27.398	1028.8	65.4	0.224	1445.9	297
325	-1.463	-1.471	0.650	0.405	34.068	6.52	283	27.414	1029.0	63.8	0.240	1446.3	321
350	-0.678	-0.690	1.458	1.195	34.144	5.27	229	27.447	1029.1	61.3	0.256	1450.5	346
375	-0.203	-0.216	1.957	1.675	34.217	4.72	205	27.485	1029.3	58.3	0.270	1453.3	371
400	-0.076	-0.091	2.105	1.804	34.265	4.69	204	27.518	1029.4	55.3	0.285	1454.3	395
425	-0.038	-0.054	2.164	1.844	34.287	4.71	205	27.534	1029.6	53.8	0.298	1454.9	420
450	0.055	0.037	2.278	1.939	34.325	4.71	204	27.560	1029.7	51.5	0.311	1455.8	445
475	0.211	0.192	2.456	2.098	34.382	4.65	202	27.597	1029.8	48.2	0.324	1457.0	469
500	0.365	0.344	2.632	2.255	34.429	4.57	199	27.627	1030.0	45.6	0.335	1458.2	494
550	0.580	0.555	2.887	2.473	34.495	4.53	197	27.668	1030.3	42.1	0.357	1460.1	543
600	1.031	1.001	3.383	2.931	34.618	4.32	188	27.738	1030.6	36.3	0.377	1463.1	593
650	1.117	1.084	3.508	3.019	34.652	4.27	186	27.760	1030.8	34.5	0.395	1464.4	642
700	1.155	1.119	3.585	3.058	34.666	4.26	185	27.769	1031.1	33.9	0.412	1465.4	691
750	1.211	1.172	3.681	3.116	34.694	4.25	184	27.788	1031.3	32.4	0.428	1466.5	741
800	1.220	1.179	3.728	3.125	34.698	4.24	184	27.790	1031.5	32.3	0.445	1467.4	790
850	1.228	1.183	3.773	3.133	34.700	4.24	184	27.792	1031.8	32.4	0.461	1468.2	839
892	1.231	1.184	3.808	3.136	34.703	4.24	184	27.794	1032.0	32.3	0.474	1468.9	881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74 17.14 S 109 50.69 W
Velocity (cm/s)
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0
20
u
v
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
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600
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1200
1300
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26.8
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27.2
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27.8
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-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**127D**	2009/02/07	00:14	-73.5275	-110.4145	314	8	318	3	6.6	85	0.1	977.1

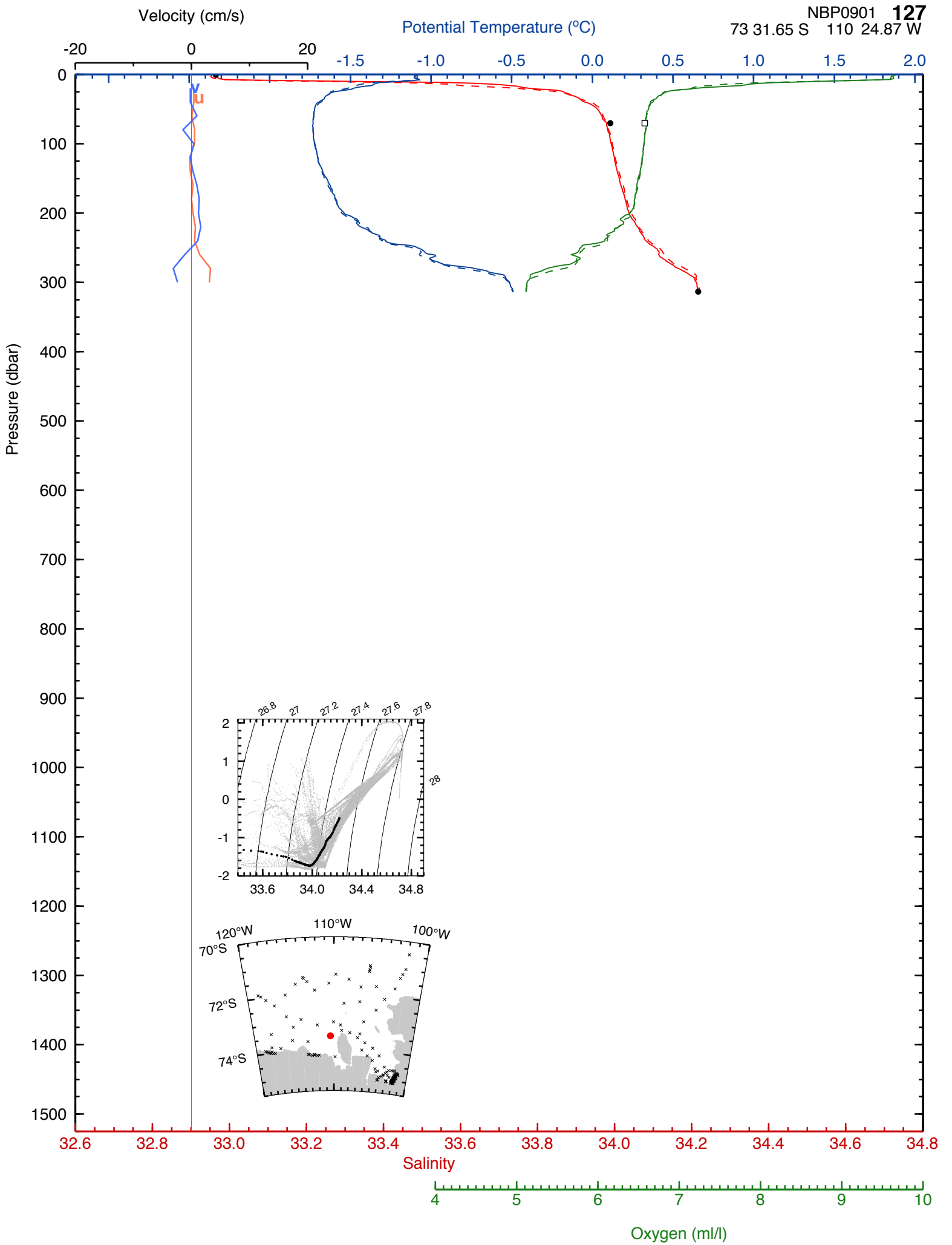
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.087	-1.087	0.719	0.718	32.955	9.63	419	73.8	26.499	1026.5	152.3	0.002	1441.3			1
25	-1.604	-1.604	0.272	0.253	33.856	6.84	297	85.1	27.246	1027.4	81.3	0.030	1440.5	0.004	117	25
50	-1.721	-1.722	0.179	0.141	33.962	6.62	288	94.8	27.335	1027.6	72.7	0.049	1440.5	0.006	64	50
75	-1.732	-1.734	0.188	0.132	33.981	6.60	287	96.2	27.351	1027.7	71.0	0.067	1440.8	0.014	116	74
100	-1.719	-1.721	0.221	0.146	33.994	6.57	286	96.5	27.361	1027.8	69.9	0.084	1441.3	0.006	57	99
125	-1.697	-1.700	0.262	0.168	34.004	6.54	284	96.9	27.368	1028.0	69.1	0.102	1441.9	0.004	253	124
150	-1.645	-1.648	0.334	0.221	34.016	6.49	282	97.1	27.377	1028.1	68.1	0.119	1442.5	0.006	198	148
175	-1.595	-1.599	0.403	0.271	34.029	6.46	281	97.1	27.386	1028.2	67.1	0.136	1443.2	0.012	6	173
200	-1.535	-1.539	0.483	0.333	34.043	6.40	278	97.2	27.396	1028.4	66.1	0.152	1443.9	0.012	12	198
225	-1.380	-1.385	0.659	0.489	34.069	6.20	270	97.2	27.412	1028.5	64.5	0.169	1445.1	0.016	24	222
250	-1.077	-1.084	0.983	0.795	34.115	5.79	252	97.0	27.439	1028.6	62.1	0.185	1447.0	0.014	62	247
275	-0.889	-0.897	1.192	0.985	34.160	5.59	243	97.3	27.469	1028.8	59.4	0.200	1448.3	0.034	131	272
300	-0.504	-0.514	1.599	1.373	34.215	5.13	223	96.0	27.498	1028.9	56.9	0.214	1450.6	0.040	129	297
314	-0.486	-0.496	1.628	1.392	34.219	5.12	222	96.2	27.500	1029.0	56.7	0.222	1451.0			310

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	127B	2009/02/07	00:25	-73.5275	-110.4145	313	8	318	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
1	-1.083	-1.083	32.959	26.502	9.63	419	32.964					10	1
70	-1.733	-1.734	33.980	27.349	6.58	286	33.989	6.58	286			3	70
313	-0.483	-0.493	34.221	27.501	5.12	223	34.217					1	310

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	127U	2009/02/07	00:34	-73.5275	-110.4145	313	8	318	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.084	-1.084	0.722	0.722	32.959	9.66	420	26.502	1026.5	152.0	0.002	1441.4	1
25	-1.620	-1.621	0.256	0.237	33.868	6.82	297	27.256	1027.4	80.4	0.029	1440.4	25
50	-1.720	-1.721	0.180	0.143	33.956	6.62	288	27.330	1027.6	73.2	0.048	1440.5	50
75	-1.732	-1.734	0.188	0.131	33.980	6.59	286	27.350	1027.7	71.1	0.066	1440.8	74
100	-1.722	-1.724	0.218	0.143	33.991	6.57	285	27.359	1027.8	70.1	0.083	1441.3	99
125	-1.698	-1.701	0.261	0.167	34.001	6.54	284	27.366	1028.0	69.3	0.101	1441.8	124
150	-1.656	-1.659	0.322	0.209	34.012	6.51	283	27.374	1028.1	68.4	0.118	1442.5	148
175	-1.600	-1.604	0.398	0.266	34.025	6.46	281	27.383	1028.2	67.4	0.135	1443.2	173
200	-1.549	-1.554	0.468	0.318	34.038	6.42	279	27.392	1028.4	66.5	0.152	1443.8	198
225	-1.375	-1.381	0.663	0.493	34.065	6.19	269	27.409	1028.5	64.9	0.168	1445.1	222
250	-1.106	-1.113	0.953	0.765	34.106	5.87	255	27.433	1028.6	62.7	0.184	1446.8	247
275	-0.910	-0.918	1.171	0.964	34.152	5.70	248	27.463	1028.8	59.9	0.200	1448.2	272
300	-0.509	-0.519	1.594	1.368	34.212	5.14	224	27.495	1028.9	57.2	0.214	1450.6	297
314	-0.486	-0.496	1.628	1.392	34.219	5.12	222	27.500	1029.0	56.7	0.222	1451.0	310


NBP0901 127
73 31.65 S 110 24.87 W
Velocity (cm/s)
-20
0
20
v
u
Potential Temperature (°C)
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
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34.6
34.8
Salinity
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**128D**	2009/02/07	19:47	-73.0386	-110.0176	431	10	436	3	4.7	107	-0.1	981.1

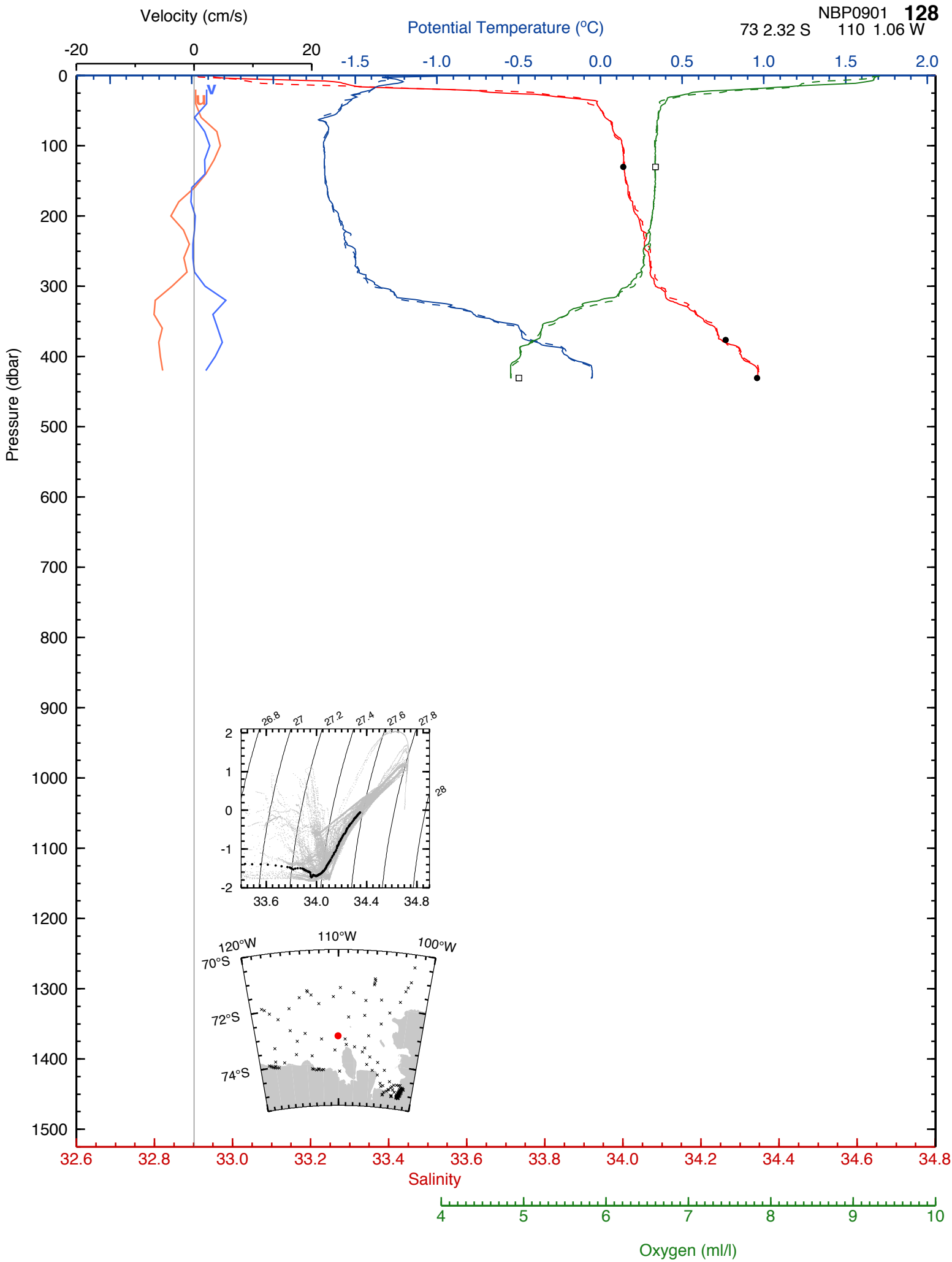
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.001	-1.001	0.803	0.802	32.911	9.23	402	76.6	26.460	1026.5	156.0	0.002	1441.7			1
25	-1.472	-1.472	0.400	0.381	33.788	7.02	305	81.9	27.187	1027.3	86.9	0.032	1441.0	0.021	8	25
50	-1.595	-1.596	0.305	0.267	33.945	6.65	289	92.2	27.318	1027.6	74.4	0.052	1441.1	0.017	45	50
75	-1.662	-1.663	0.258	0.202	33.974	6.63	288	95.0	27.343	1027.7	71.8	0.070	1441.2	0.034	71	74
100	-1.692	-1.694	0.249	0.173	34.000	6.60	287	96.5	27.365	1027.8	69.6	0.088	1441.5	0.051	59	99
125	-1.686	-1.688	0.274	0.180	34.004	6.60	287	96.6	27.368	1028.0	69.1	0.105	1441.9	0.036	59	124
150	-1.682	-1.685	0.297	0.184	34.007	6.60	287	96.6	27.370	1028.1	68.7	0.122	1442.3	0.018	96	148
175	-1.657	-1.661	0.341	0.209	34.020	6.59	286	96.8	27.380	1028.2	67.7	0.140	1442.9	0.018	227	173
200	-1.598	-1.602	0.420	0.270	34.043	6.56	285	97.0	27.398	1028.4	65.9	0.156	1443.6	0.037	271	198
225	-1.563	-1.568	0.474	0.305	34.053	6.54	284	97.0	27.405	1028.5	65.1	0.173	1444.2	0.017	271	222
250	-1.493	-1.498	0.565	0.376	34.070	6.45	280	97.0	27.416	1028.6	63.9	0.189	1445.0	0.011	259	247
275	-1.477	-1.483	0.600	0.392	34.074	6.43	280	97.0	27.419	1028.7	63.5	0.205	1445.5	0.014	270	272
300	-1.350	-1.357	0.747	0.521	34.096	6.27	272	97.0	27.433	1028.9	62.2	0.220	1446.5	0.037	293	297
325	-0.930	-0.939	1.189	0.945	34.165	5.71	248	97.0	27.475	1029.0	58.6	0.236	1449.0	0.084	308	321
350	-0.623	-0.634	1.518	1.254	34.216	5.36	233	96.5	27.504	1029.2	56.1	0.250	1450.9	0.073	299	346
375	-0.458	-0.471	1.703	1.421	34.245	5.18	225	95.6	27.519	1029.3	54.7	0.264	1452.1	0.072	308	371
400	-0.184	-0.198	2.000	1.699	34.308	4.96	215	96.5	27.557	1029.5	51.4	0.277	1453.9	0.069	304	395
425	-0.033	-0.050	2.171	1.851	34.348	4.84	211	96.4	27.582	1029.6	49.2	0.289	1455.0	0.057	291	420
431	-0.040	-0.056	2.170	1.845	34.346	4.85	211	96.3	27.581	1029.6	49.4	0.292	1455.1			426

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	128B	2009/02/07	20:00	-73.0386	-110.0177	431	10	436	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
130	-1.684	-1.687	34.005	27.369	6.59	287	34.001	6.60	287			5	129
377	-0.412	-0.425	34.254	27.525	5.15	224	34.263					3	372
431	-0.038	-0.054	34.346	27.581	4.85	211	34.344	4.94	215			1	426

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	128U	2009/02/07	20:13	-73.0386	-110.0177	431	10	436	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.317	-1.317	0.488	0.488	32.950	9.33	406	26.502	1026.5	152.0	0.002	1440.2	1
25	-1.435	-1.436	0.431	0.412	33.697	7.33	319	27.112	1027.2	94.0	0.031	1441.1	25
50	-1.609	-1.610	0.290	0.253	33.946	6.64	289	27.319	1027.6	74.3	0.051	1441.0	50
75	-1.669	-1.670	0.251	0.195	33.973	6.61	288	27.343	1027.7	71.8	0.069	1441.2	74
100	-1.690	-1.692	0.250	0.174	33.998	6.59	286	27.364	1027.8	69.7	0.087	1441.5	99
125	-1.686	-1.689	0.273	0.179	34.002	6.60	287	27.366	1028.0	69.3	0.104	1441.9	124
150	-1.676	-1.679	0.303	0.190	34.009	6.59	287	27.372	1028.1	68.6	0.121	1442.4	148
175	-1.656	-1.660	0.342	0.210	34.017	6.59	286	27.378	1028.2	67.9	0.138	1442.9	173
200	-1.607	-1.611	0.411	0.261	34.037	6.56	285	27.393	1028.4	66.4	0.155	1443.6	198
225	-1.523	-1.528	0.515	0.345	34.060	6.50	283	27.409	1028.5	64.7	0.172	1444.4	222
250	-1.521	-1.527	0.536	0.348	34.062	6.50	283	27.411	1028.6	64.5	0.188	1444.8	247
275	-1.475	-1.481	0.602	0.394	34.071	6.43	280	27.417	1028.7	63.8	0.204	1445.5	272
300	-1.389	-1.396	0.707	0.481	34.084	6.34	276	27.424	1028.9	63.0	0.220	1446.3	297
325	-1.045	-1.054	1.073	0.829	34.142	5.93	258	27.460	1029.0	59.8	0.235	1448.4	321
350	-0.638	-0.649	1.503	1.239	34.208	5.40	235	27.497	1029.2	56.7	0.250	1450.8	346
375	-0.440	-0.453	1.722	1.439	34.245	5.17	225	27.519	1029.3	54.8	0.263	1452.2	371
400	-0.184	-0.199	1.999	1.698	34.304	4.95	215	27.554	1029.5	51.7	0.277	1453.9	395
425	-0.034	-0.050	2.171	1.851	34.346	4.85	211	27.581	1029.6	49.4	0.289	1455.0	420
431	-0.040	-0.056	2.170	1.845	34.346	4.85	211	27.581	1029.6	49.4	0.292	1455.1	426


Velocity (cm/s)
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Potential Temperature (°C)
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NBP0901 128
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Salinity
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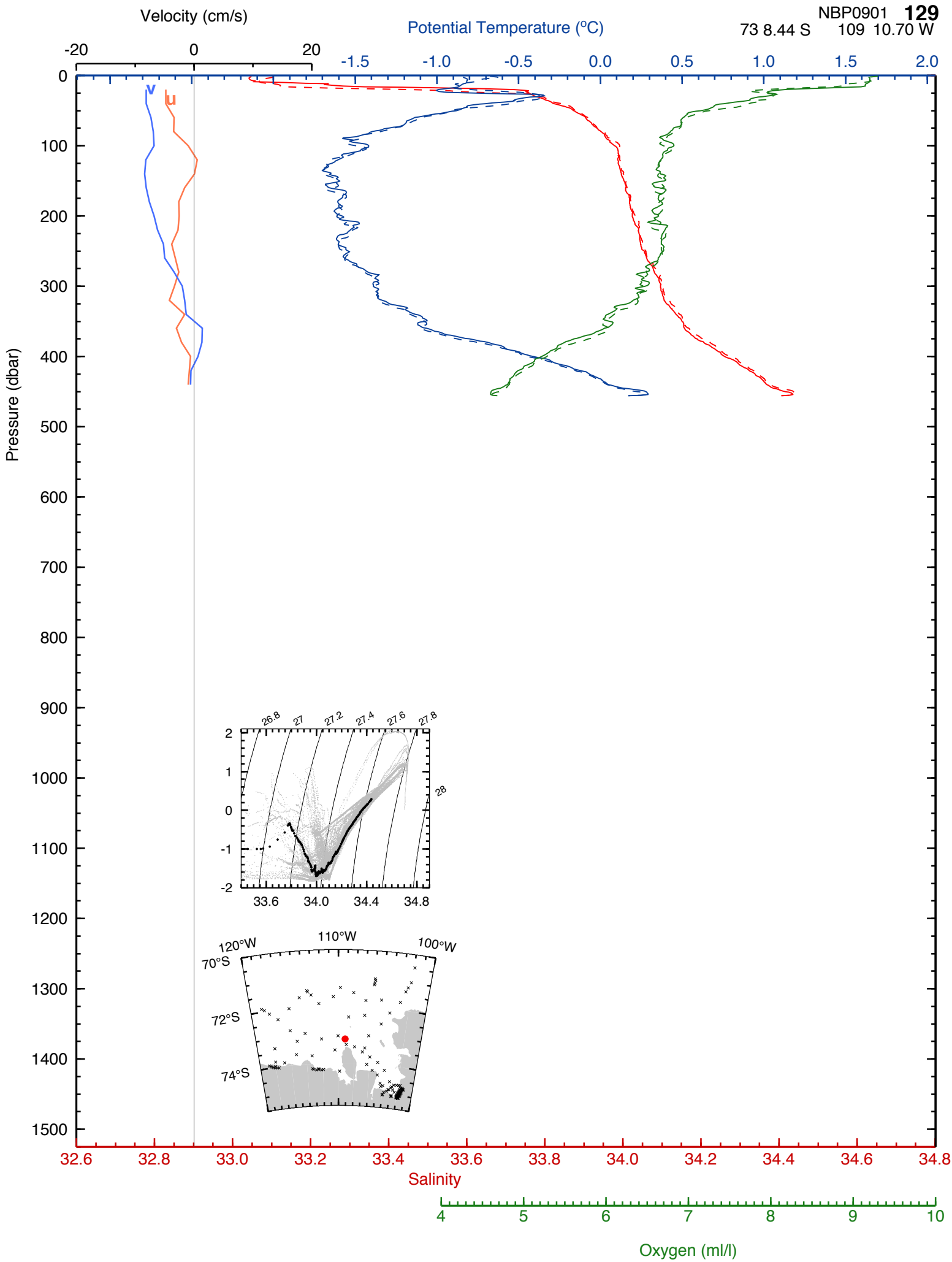
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**129D**	2009/02/07	22:36	-73.1406	-109.1784	456	9	459		6.5	111	0.1	981.9

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.839	-0.839	0.976	0.975	33.105	9.19	400	76.2	26.612	1026.6	141.6	0.003	1442.7			2
25	-0.757	-0.757	1.110	1.091	33.690	7.99	347	78.5	27.083	1027.2	96.8	0.033	1444.3	0.094	211	25
50	-0.882	-0.884	1.013	0.976	33.881	7.15	311	84.4	27.242	1027.5	81.6	0.055	1444.3	0.088	208	50
75	-1.290	-1.292	0.627	0.571	33.934	6.82	297	90.9	27.299	1027.7	76.0	0.075	1442.9	0.078	206	74
100	-1.416	-1.418	0.524	0.449	33.992	6.82	297	92.5	27.350	1027.8	71.0	0.093	1442.8	0.069	189	99
125	-1.642	-1.644	0.317	0.223	33.993	6.64	289	95.1	27.358	1028.0	70.1	0.110	1442.1	0.082	177	124
150	-1.591	-1.594	0.387	0.274	34.010	6.71	291	95.7	27.371	1028.1	68.8	0.128	1442.8	0.084	184	148
175	-1.579	-1.583	0.419	0.287	34.019	6.64	288	96.3	27.378	1028.2	68.0	0.145	1443.3	0.081	196	173
200	-1.577	-1.581	0.440	0.290	34.032	6.64	289	96.6	27.388	1028.3	66.8	0.162	1443.7	0.073	200	198
225	-1.552	-1.557	0.485	0.316	34.044	6.69	291	96.3	27.397	1028.5	65.8	0.178	1444.2	0.068	205	222
250	-1.535	-1.541	0.521	0.333	34.059	6.70	291	96.7	27.409	1028.6	64.6	0.195	1444.7	0.062	215	247
275	-1.446	-1.453	0.630	0.423	34.083	6.52	283	96.9	27.426	1028.7	62.9	0.211	1445.6	0.050	215	272
300	-1.381	-1.388	0.716	0.490	34.100	6.48	281	96.6	27.437	1028.9	61.8	0.226	1446.3	0.040	235	297
325	-1.281	-1.289	0.836	0.591	34.124	6.25	272	96.9	27.453	1029.0	60.3	0.241	1447.3	0.043	248	321
350	-1.068	-1.078	1.069	0.806	34.156	6.05	263	97.0	27.472	1029.1	58.6	0.256	1448.7	0.025	250	346
375	-0.792	-0.804	1.367	1.085	34.205	5.61	244	97.0	27.502	1029.3	56.0	0.271	1450.5	0.029	299	371
400	-0.399	-0.413	1.783	1.481	34.274	5.22	227	96.9	27.540	1029.4	52.8	0.284	1452.8	0.013	315	395
425	-0.050	-0.066	2.155	1.835	34.346	4.89	212	96.8	27.582	1029.6	49.3	0.297	1455.0	0.009	238	420
450	0.297	0.279	2.526	2.187	34.437	4.61	200	96.3	27.637	1029.8	44.5	0.309	1457.1			445
456	0.190	0.171	2.421	2.078	34.407	4.68	203	96.1	27.618	1029.8	46.1	0.312	1456.7			451

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	129U	2009/02/07	23:00	-73.1409	-109.1782	456	9	459	

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.677	-0.677	1.134	1.133	33.048	9.30	405	26.560	1026.6	146.5	0.001	1443.4	1
25	-0.447	-0.448	1.422	1.404	33.755	7.94	345	27.122	1027.2	93.1	0.031	1445.8	25
50	-0.911	-0.912	0.985	0.947	33.874	7.25	315	27.238	1027.5	82.0	0.053	1444.2	50
75	-1.262	-1.264	0.656	0.599	33.933	6.90	300	27.298	1027.7	76.1	0.073	1443.0	74
100	-1.494	-1.496	0.445	0.370	33.979	6.70	291	27.342	1027.8	71.8	0.092	1442.4	99
125	-1.673	-1.675	0.286	0.192	33.988	6.64	289	27.355	1028.0	70.3	0.109	1442.0	124
150	-1.602	-1.606	0.376	0.263	34.003	6.71	292	27.365	1028.1	69.2	0.127	1442.7	148
175	-1.557	-1.561	0.441	0.309	34.017	6.70	291	27.375	1028.2	68.2	0.144	1443.4	173
200	-1.607	-1.611	0.410	0.260	34.024	6.61	287	27.383	1028.3	67.3	0.161	1443.5	198
225	-1.517	-1.523	0.519	0.350	34.041	6.73	292	27.394	1028.5	66.2	0.178	1444.4	222
250	-1.553	-1.559	0.504	0.315	34.055	6.68	290	27.406	1028.6	64.8	0.194	1444.7	247
275	-1.467	-1.473	0.610	0.403	34.078	6.51	283	27.422	1028.7	63.3	0.210	1445.5	272
300	-1.377	-1.384	0.720	0.494	34.097	6.46	281	27.435	1028.9	62.1	0.226	1446.4	297
325	-1.312	-1.320	0.804	0.560	34.113	6.37	277	27.446	1029.0	61.0	0.241	1447.1	321
350	-1.066	-1.076	1.071	0.808	34.152	5.98	260	27.469	1029.1	58.9	0.256	1448.7	346
375	-0.866	-0.877	1.292	1.010	34.190	5.79	252	27.492	1029.3	56.9	0.271	1450.1	371
400	-0.432	-0.446	1.749	1.448	34.261	5.28	230	27.531	1029.4	53.6	0.284	1452.7	395
425	-0.068	-0.084	2.137	1.817	34.339	4.93	214	27.577	1029.6	49.7	0.297	1454.9	420
450	0.248	0.230	2.476	2.137	34.417	4.70	204	27.624	1029.8	45.7	0.309	1456.8	445
456	0.190	0.171	2.421	2.078	34.407	4.68	203	27.618	1029.8	46.1	0.312	1456.7	451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Potential Temperature (°C)
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NBP0901 129
73 8.44 S
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Pressure (dbar)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**130D**	2009/02/08	09:19	-72.3675	-108.8011	537	8	539	4	4.8	126	-0.4	983.8

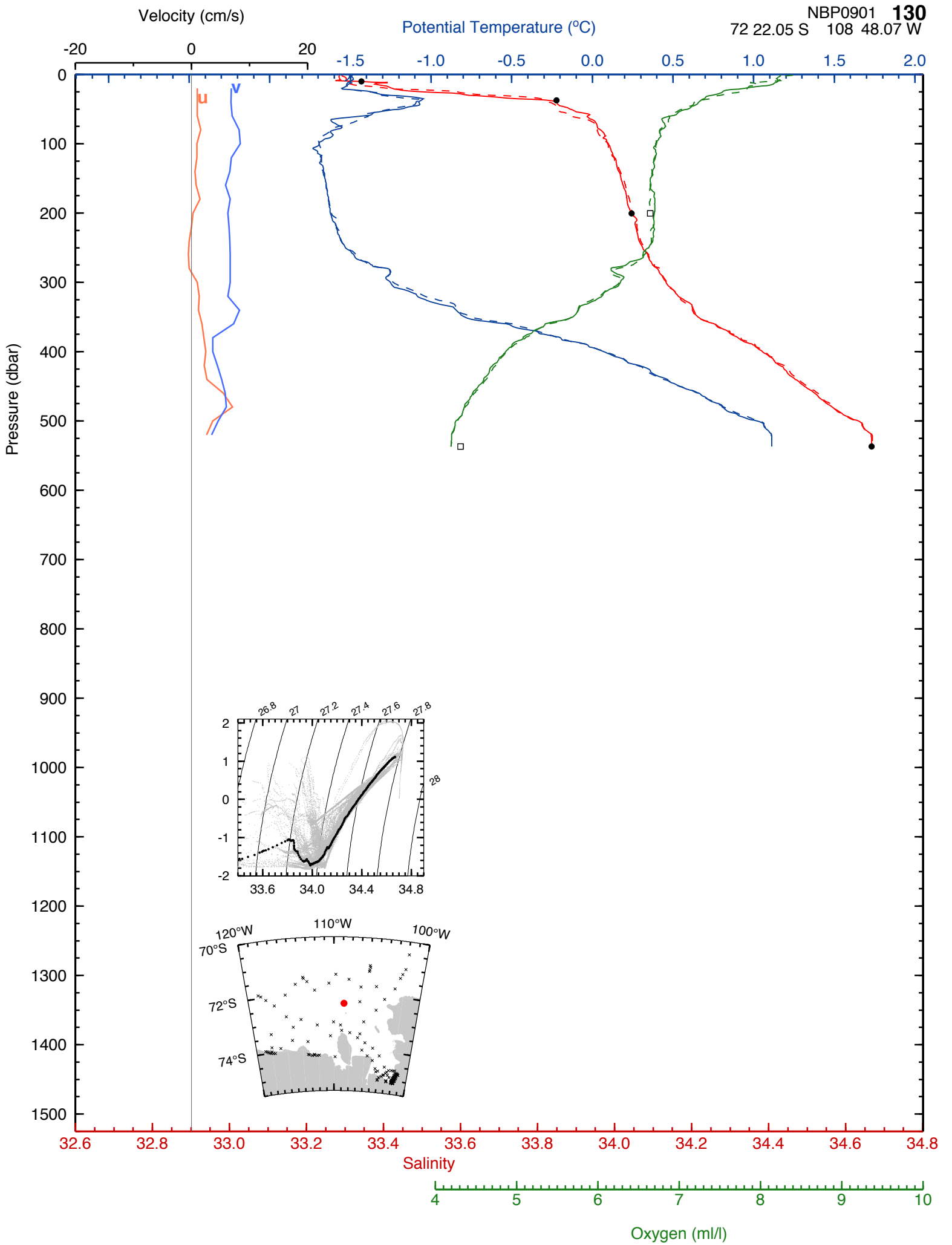
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.488	-1.488	0.338	0.337	33.292	8.25	359	80.4	26.784	1026.8	125.3	0.001	1439.9			1
25	-1.370	-1.370	0.491	0.472	33.592	7.53	327	83.9	27.025	1027.1	102.3	0.030	1441.2	0.070	8	25
50	-1.196	-1.198	0.698	0.660	33.852	7.10	309	85.8	27.230	1027.5	82.7	0.052	1442.8	0.070	8	50
75	-1.561	-1.562	0.358	0.302	33.956	6.83	297	94.8	27.326	1027.7	73.4	0.072	1441.6	0.080	10	74
100	-1.693	-1.695	0.247	0.171	33.982	6.72	292	96.4	27.351	1027.8	70.9	0.090	1441.5	0.084	6	99
125	-1.682	-1.685	0.277	0.183	34.000	6.69	291	96.7	27.365	1028.0	69.4	0.107	1441.9	0.069	7	124
150	-1.656	-1.659	0.323	0.210	34.023	6.65	289	96.9	27.383	1028.1	67.6	0.124	1442.5	0.064	6	148
175	-1.636	-1.640	0.362	0.231	34.035	6.69	291	96.9	27.392	1028.2	66.6	0.141	1443.0	0.066	11	173
200	-1.621	-1.625	0.397	0.247	34.047	6.69	291	96.9	27.401	1028.4	65.6	0.158	1443.5	0.064	4	198
225	-1.577	-1.582	0.461	0.292	34.060	6.69	291	96.9	27.410	1028.5	64.6	0.174	1444.1	0.065	44	222
250	-1.525	-1.530	0.533	0.345	34.075	6.62	288	96.9	27.422	1028.6	63.4	0.190	1444.8	0.066	356	247
275	-1.361	-1.368	0.717	0.510	34.103	6.35	276	97.0	27.439	1028.8	61.7	0.206	1446.0	0.067	356	272
300	-1.245	-1.253	0.854	0.628	34.135	6.28	273	96.9	27.461	1028.9	59.7	0.221	1447.0	0.068	67	297
325	-1.026	-1.035	1.094	0.849	34.173	5.98	260	97.0	27.484	1029.0	57.6	0.235	1448.5	0.065	11	321
350	-0.778	-0.789	1.362	1.099	34.216	5.69	247	97.0	27.510	1029.2	55.4	0.249	1450.2	0.081	10	346
375	-0.287	-0.301	1.878	1.595	34.309	5.14	224	97.3	27.563	1029.3	50.8	0.263	1453.0	0.058	22	371
400	0.086	0.070	2.274	1.973	34.389	4.86	211	97.3	27.609	1029.5	46.9	0.275	1455.2	0.044	33	395
425	0.366	0.348	2.577	2.257	34.453	4.67	203	97.3	27.645	1029.7	43.8	0.286	1457.0	0.050	26	420
450	0.565	0.545	2.797	2.458	34.501	4.53	197	97.2	27.672	1029.8	41.5	0.297	1458.4	0.064	31	445
475	0.803	0.781	3.058	2.700	34.562	4.37	190	97.2	27.707	1029.9	38.6	0.307	1460.0	0.086	46	469
500	1.044	1.020	3.322	2.946	34.632	4.25	185	97.1	27.748	1030.1	35.1	0.316	1461.5	0.069	42	494
537	1.139	1.113	3.447	3.043	34.670	4.19	182	96.8	27.773	1030.3	33.1	0.329	1462.6			531

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	130B	2009/02/08	09:35	-72.3677	-108.8026	537	8	539	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.528	-1.528	33.293	26.786	8.19	356	33.342					7	10
38	-1.048	-1.049	33.831	27.208	7.24	315	33.849					5	37
201	-1.617	-1.621	34.047	27.401	6.69	291	34.044	6.64	289			3	198
537	1.139	1.113	34.670	27.773	4.19	182	34.667	4.31	187			1	531

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	130U	2009/02/08	09:49	-72.3680	-108.8038	537	8	539	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.507	-1.507	0.318	0.317	33.286	8.40	365	26.780	1026.8	125.7	0.001	1439.8	1
25	-1.383	-1.384	0.472	0.453	33.502	7.75	337	26.952	1027.1	109.2	0.030	1441.1	25
50	-1.251	-1.252	0.645	0.607	33.886	7.04	306	27.259	1027.5	80.0	0.052	1442.6	50
75	-1.570	-1.571	0.349	0.293	33.955	6.81	296	27.325	1027.7	73.5	0.071	1441.6	74
100	-1.693	-1.695	0.247	0.171	33.984	6.71	292	27.352	1027.8	70.8	0.089	1441.5	99
125	-1.677	-1.679	0.283	0.189	34.004	6.69	291	27.368	1028.0	69.1	0.107	1442.0	124
150	-1.655	-1.658	0.324	0.211	34.017	6.67	290	27.378	1028.1	68.1	0.124	1442.5	148
175	-1.635	-1.639	0.363	0.232	34.031	6.65	289	27.389	1028.2	66.9	0.141	1443.0	173
200	-1.616	-1.621	0.402	0.252	34.046	6.69	291	27.401	1028.4	65.6	0.157	1443.5	198
225	-1.567	-1.572	0.471	0.301	34.057	6.65	289	27.408	1028.5	64.8	0.174	1444.2	222
250	-1.517	-1.523	0.540	0.352	34.073	6.63	288	27.420	1028.6	63.6	0.190	1444.8	247
275	-1.368	-1.375	0.710	0.503	34.099	6.42	279	27.436	1028.8	62.1	0.205	1446.0	272
300	-1.227	-1.234	0.872	0.646	34.133	6.26	272	27.459	1028.9	59.9	0.221	1447.1	297
325	-0.953	-0.963	1.167	0.922	34.179	5.93	258	27.487	1029.0	57.4	0.235	1448.9	321
350	-0.745	-0.756	1.396	1.132	34.217	5.68	247	27.509	1029.2	55.5	0.249	1450.3	346
375	-0.273	-0.287	1.891	1.609	34.303	5.18	225	27.557	1029.3	51.3	0.263	1453.0	371
400	0.093	0.077	2.281	1.980	34.384	4.88	212	27.605	1029.5	47.3	0.275	1455.3	395
425	0.339	0.322	2.550	2.230	34.440	4.70	204	27.637	1029.6	44.5	0.287	1456.9	420
450	0.560	0.540	2.792	2.453	34.493	4.56	198	27.667	1029.8	42.0	0.297	1458.4	445
475	0.790	0.768	3.044	2.686	34.551	4.40	191	27.700	1029.9	39.3	0.308	1459.9	469
500	1.064	1.040	3.342	2.965	34.633	4.27	185	27.748	1030.1	35.2	0.317	1461.6	494
537	1.139	1.113	3.447	3.043	34.670	4.19	182	27.773	1030.3	33.1	0.329	1462.6	531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0
20
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Potential Temperature (°C)
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-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**131D**	2009/02/08	17:05	-72.2925	-106.9414	683	9	683	4	3.9	196	-0.9	984.7

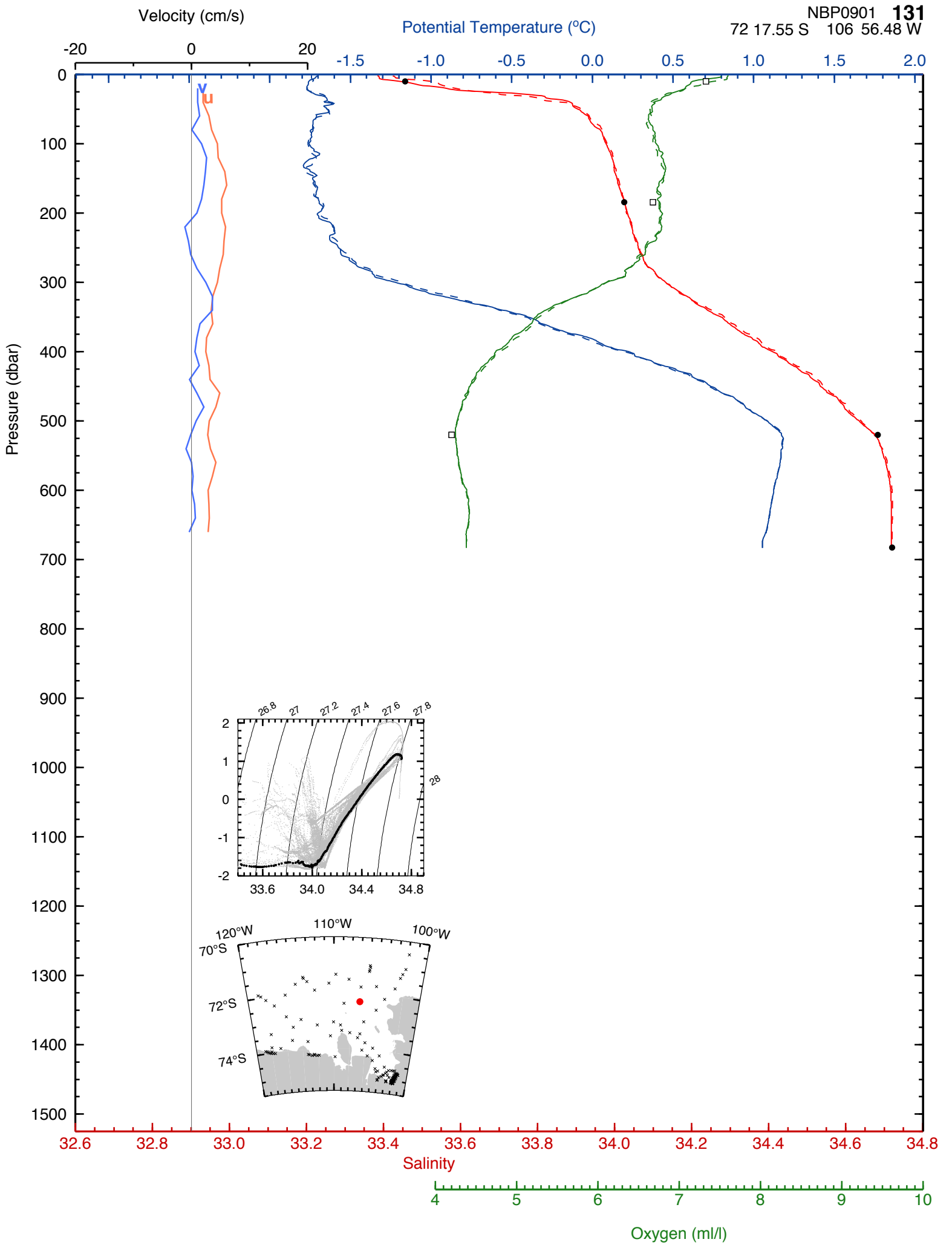
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.700	-1.700	0.134	0.132	33.424	7.51	327	91.0	26.897	1026.9	114.5	0.002	1439.1			2
25	-1.749	-1.749	0.115	0.096	33.650	6.96	302	95.2	27.082	1027.2	96.8	0.027	1439.5	0.023	61	25
50	-1.644	-1.645	0.254	0.217	33.914	6.67	290	96.5	27.294	1027.5	76.6	0.048	1440.8	0.028	63	50
75	-1.731	-1.732	0.188	0.132	33.963	6.67	290	97.0	27.336	1027.7	72.4	0.066	1440.8	0.034	82	74
100	-1.754	-1.756	0.185	0.109	33.981	6.72	292	97.1	27.352	1027.8	70.8	0.084	1441.2	0.047	70	99
125	-1.768	-1.770	0.191	0.097	33.997	6.81	296	97.1	27.365	1028.0	69.4	0.102	1441.5	0.055	62	124
150	-1.732	-1.735	0.246	0.133	34.009	6.80	295	97.0	27.373	1028.1	68.4	0.119	1442.1	0.063	69	148
175	-1.714	-1.718	0.284	0.152	34.021	6.77	294	97.2	27.383	1028.2	67.4	0.136	1442.6	0.059	72	173
200	-1.697	-1.701	0.320	0.170	34.031	6.79	295	97.2	27.390	1028.4	66.5	0.153	1443.1	0.053	79	198
225	-1.594	-1.599	0.444	0.274	34.048	6.77	294	96.9	27.402	1028.5	65.4	0.169	1444.0	0.059	100	222
250	-1.569	-1.575	0.488	0.300	34.063	6.59	287	97.2	27.413	1028.6	64.2	0.185	1444.6	0.056	94	247
275	-1.458	-1.464	0.619	0.412	34.083	6.44	280	97.2	27.426	1028.7	62.9	0.201	1445.5	0.052	84	272
300	-1.214	-1.222	0.884	0.658	34.132	6.11	265	97.2	27.458	1028.9	60.0	0.217	1447.2	0.051	64	297
325	-0.825	-0.835	1.296	1.051	34.201	5.64	245	97.3	27.500	1029.1	56.3	0.231	1449.5	0.052	46	321
350	-0.386	-0.398	1.759	1.496	34.286	5.23	227	97.4	27.549	1029.2	52.1	0.245	1452.1	0.047	51	346
375	-0.090	-0.103	2.078	1.796	34.352	4.99	217	97.3	27.589	1029.4	48.6	0.257	1454.0	0.034	70	371
400	0.242	0.226	2.433	2.132	34.423	4.74	206	97.3	27.628	1029.5	45.3	0.269	1456.0	0.026	75	395
425	0.534	0.515	2.747	2.427	34.489	4.55	198	97.4	27.665	1029.7	42.1	0.280	1457.8	0.033	67	420
450	0.755	0.735	2.990	2.652	34.544	4.42	192	97.4	27.696	1029.8	39.6	0.290	1459.3	0.036	92	445
475	0.956	0.933	3.213	2.855	34.599	4.33	188	97.4	27.728	1030.0	36.9	0.300	1460.7	0.049	72	469
500	1.109	1.085	3.387	3.011	34.640	4.27	185	97.3	27.750	1030.1	35.0	0.309	1461.8	0.036	72	494
550	1.197	1.170	3.516	3.102	34.701	4.27	186	97.2	27.794	1030.4	31.2	0.325	1463.2	0.035	103	544
600	1.154	1.124	3.512	3.060	34.721	4.39	191	97.2	27.812	1030.6	29.5	0.340	1463.8	0.032	87	593
650	1.119	1.086	3.515	3.025	34.721	4.40	191	97.1	27.815	1030.9	29.4	0.355	1464.5	0.032	80	642
683	1.089	1.055	3.510	2.995	34.719	4.38	190	96.6	27.816	1031.0	29.3	0.365	1464.9			675

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	131B	2009/02/08	17:24	-72.2923	-106.9408	683	9	683	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.735	-1.736	33.445	26.915	7.42	323	33.457	7.33	319			7	10
184	-1.667	-1.671	34.029	27.388	6.75	294	34.026	6.68	290			5	182
520	1.208	1.182	34.684	27.779	4.25	185	34.683	4.20	182			3	514
683	1.089	1.054	34.719	27.816	4.38	190	34.721					1	674

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	131U	2009/02/08	17:44	-72.2922	-106.9404	683	9	683	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.741	-1.741	0.089	0.089	33.385	7.60	330	26.867	1026.9	117.4	0.001	1438.8	1
25	-1.733	-1.734	0.132	0.113	33.669	6.98	303	27.097	1027.2	95.4	0.028	1439.6	25
50	-1.642	-1.643	0.255	0.217	33.906	6.64	289	27.287	1027.5	77.2	0.048	1440.8	50
75	-1.732	-1.734	0.186	0.130	33.948	6.61	287	27.324	1027.7	73.6	0.067	1440.8	74
100	-1.762	-1.764	0.177	0.102	33.978	6.68	290	27.349	1027.8	71.1	0.085	1441.1	99
125	-1.737	-1.739	0.222	0.128	33.996	6.77	294	27.363	1028.0	69.6	0.102	1441.7	124
150	-1.710	-1.713	0.268	0.155	34.007	6.81	296	27.371	1028.1	68.7	0.120	1442.2	148
175	-1.723	-1.727	0.274	0.143	34.019	6.77	294	27.381	1028.2	67.5	0.137	1442.6	173
200	-1.691	-1.695	0.327	0.176	34.033	6.77	294	27.392	1028.4	66.4	0.153	1443.2	198
225	-1.597	-1.602	0.440	0.271	34.047	6.76	294	27.401	1028.5	65.5	0.170	1444.0	222
250	-1.560	-1.566	0.497	0.308	34.062	6.58	286	27.412	1028.6	64.3	0.186	1444.6	247
275	-1.442	-1.448	0.635	0.428	34.082	6.43	279	27.425	1028.7	63.0	0.202	1445.6	272
300	-1.177	-1.185	0.922	0.696	34.132	6.10	265	27.457	1028.9	60.1	0.217	1447.4	297
325	-0.792	-0.801	1.330	1.085	34.200	5.64	245	27.497	1029.0	56.6	0.232	1449.7	321
350	-0.398	-0.410	1.747	1.483	34.277	5.27	229	27.543	1029.2	52.7	0.246	1452.0	346
375	-0.131	-0.144	2.036	1.754	34.336	5.06	220	27.578	1029.4	49.6	0.259	1453.8	371
400	0.212	0.196	2.402	2.101	34.410	4.80	209	27.619	1029.5	46.1	0.271	1455.8	395
425	0.506	0.488	2.719	2.399	34.477	4.58	199	27.657	1029.7	42.9	0.282	1457.7	420
450	0.739	0.718	2.973	2.634	34.535	4.44	193	27.690	1029.8	40.1	0.292	1459.2	445
475	0.949	0.927	3.206	2.848	34.590	4.34	188	27.721	1030.0	37.5	0.302	1460.7	469
500	1.108	1.084	3.386	3.009	34.635	4.27	186	27.746	1030.1	35.4	0.311	1461.8	494
550	1.197	1.169	3.516	3.102	34.698	4.27	186	27.791	1030.4	31.5	0.327	1463.1	544
600	1.154	1.124	3.512	3.060	34.717	4.37	190	27.810	1030.6	29.8	0.343	1463.8	593
650	1.120	1.087	3.516	3.026	34.718	4.41	192	27.813	1030.9	29.6	0.357	1464.5	642
683	1.089	1.055	3.510	2.995	34.719	4.38	190	27.816	1031.0	29.3	0.367	1464.9	675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Potential Temperature (°C)
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1.0
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Pressure (dbar)
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200
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
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33.6
33.8
34.0
34.2
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34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**132D**	2009/02/09	09:20	-71.7067	-105.1583	532	9	534	6	6.4	206	-2.0	985.5

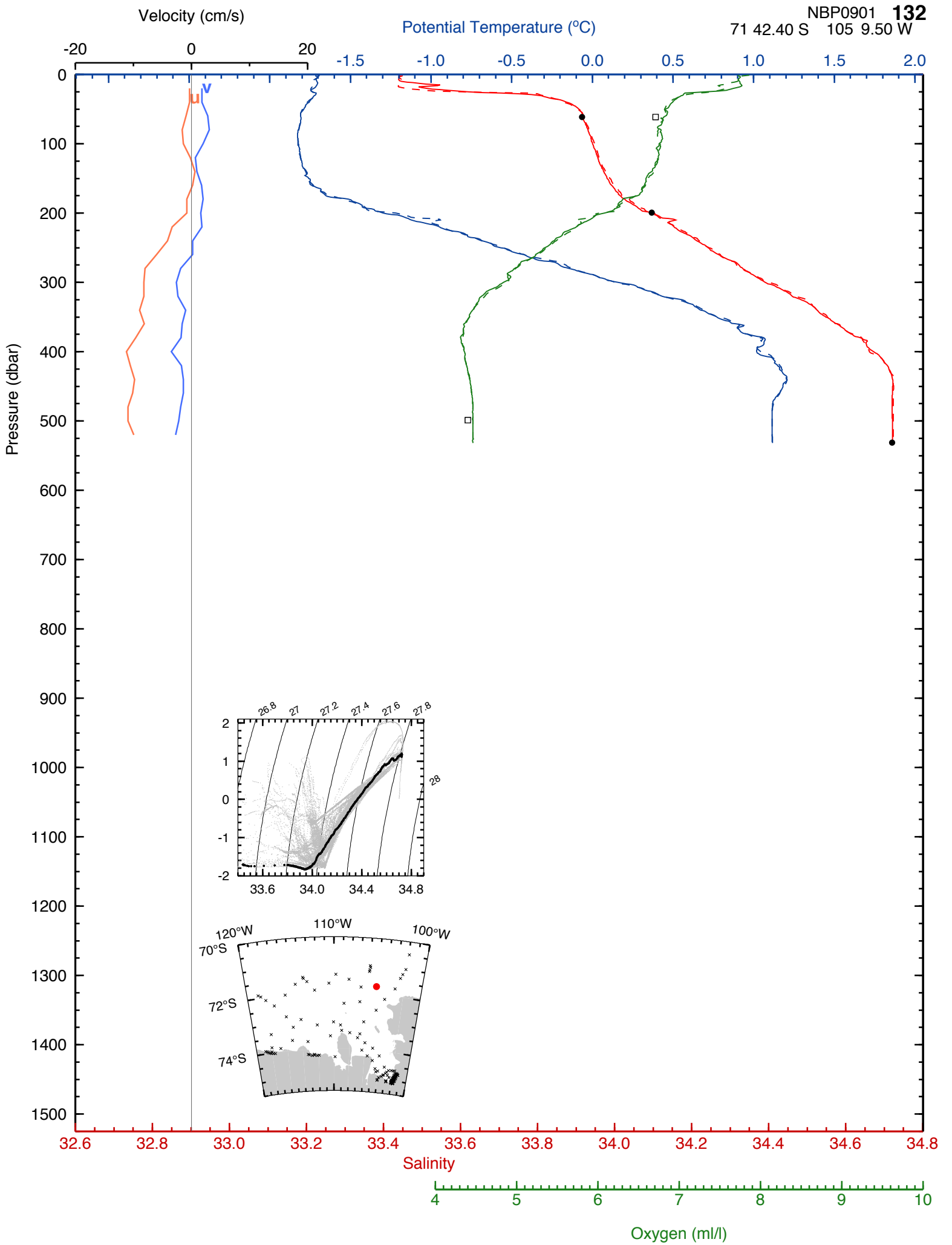
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.713	-1.713	0.121	0.120	33.449	7.72	336	92.8	26.918	1026.9	112.6	0.001	1439.0			1
25	-1.734	-1.734	0.128	0.109	33.609	7.32	318	92.9	27.048	1027.2	100.0	0.028	1439.5	0.018	350	25
50	-1.789	-1.790	0.108	0.070	33.903	6.83	297	96.3	27.289	1027.5	77.1	0.048	1440.1	0.023	347	50
75	-1.815	-1.816	0.103	0.046	33.930	6.74	293	97.0	27.312	1027.7	74.7	0.067	1440.4	0.033	335	74
100	-1.821	-1.823	0.116	0.041	33.949	6.75	294	97.3	27.327	1027.8	73.1	0.086	1440.8	0.025	325	99
125	-1.801	-1.803	0.156	0.062	33.963	6.72	292	97.4	27.338	1027.9	71.9	0.104	1441.3	0.008	288	124
150	-1.756	-1.759	0.221	0.108	33.988	6.59	287	97.4	27.357	1028.1	70.0	0.122	1442.0	0.013	22	148
175	-1.650	-1.654	0.347	0.216	34.019	6.49	282	97.4	27.380	1028.2	67.7	0.139	1442.9	0.020	223	173
200	-1.292	-1.297	0.728	0.578	34.090	6.08	264	97.4	27.426	1028.4	63.4	0.155	1445.1	0.018	334	198
225	-0.877	-0.883	1.168	0.998	34.175	5.64	245	97.5	27.480	1028.6	58.5	0.171	1447.6	0.038	295	222
250	-0.558	-0.566	1.510	1.321	34.246	5.34	232	97.4	27.525	1028.7	54.4	0.185	1449.6	0.048	272	247
275	-0.193	-0.203	1.897	1.690	34.317	5.04	219	97.4	27.565	1028.9	50.9	0.198	1451.8	0.073	263	272
300	0.170	0.158	2.284	2.058	34.403	4.84	210	97.4	27.616	1029.0	46.4	0.210	1454.0	0.085	253	297
325	0.571	0.557	2.709	2.465	34.499	4.54	197	97.4	27.671	1029.2	41.6	0.221	1456.4	0.085	255	321
350	0.788	0.772	2.948	2.684	34.553	4.42	192	97.4	27.700	1029.4	39.0	0.231	1457.8	0.088	262	346
375	0.982	0.965	3.165	2.883	34.622	4.34	188	97.3	27.744	1029.5	35.2	0.240	1459.2	0.091	259	371
400	1.038	1.019	3.242	2.941	34.661	4.36	189	97.2	27.772	1029.7	32.6	0.249	1459.9	0.113	254	395
425	1.181	1.160	3.407	3.087	34.713	4.40	191	97.2	27.804	1029.8	29.9	0.257	1461.0	0.106	261	420
450	1.204	1.182	3.450	3.111	34.724	4.44	193	97.4	27.812	1029.9	29.3	0.264	1461.6	0.100	262	445
475	1.141	1.117	3.405	3.047	34.724	4.46	194	97.2	27.816	1030.1	28.9	0.271	1461.7	0.106	261	469
500	1.140	1.115	3.423	3.046	34.723	4.46	194	97.2	27.815	1030.2	29.0	0.279	1462.1	0.111	259	494
532	1.142	1.116	3.449	3.049	34.722	4.46	194	97.2	27.814	1030.3	29.2	0.288	1462.6			526

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	132B	2009/02/09	09:35	-71.7058	-105.1593	532	9	534	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
11	-1.721	-1.721	33.458	26.925	7.70	335						12	11
62	-1.810	-1.811	33.918	27.301	6.79	295	33.915	6.71	292			10	61
200	-1.325	-1.330	34.083	27.422	6.16	268	34.096					8	197
379	1.024	1.006	34.629	27.747	4.33	188						6	375
499	1.139	1.114	34.722	27.815	4.46	194		4.40	191			4	493
532	1.142	1.116	34.722	27.814	4.46	194	34.721					1	525

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	132U	2009/02/09	09:51	-71.7047	-105.1596	532	9	534	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.691	-1.691	0.143	0.142	33.445	7.86	342	26.914	1026.9	113.0	0.001	1439.1	1
25	-1.736	-1.737	0.126	0.107	33.622	7.39	321	27.059	1027.2	99.0	0.027	1439.5	25
50	-1.795	-1.796	0.103	0.065	33.907	6.82	296	27.292	1027.5	76.7	0.048	1440.0	50
75	-1.815	-1.816	0.102	0.046	33.927	6.76	294	27.309	1027.7	75.0	0.067	1440.4	74
100	-1.824	-1.826	0.113	0.038	33.943	6.77	294	27.322	1027.8	73.6	0.085	1440.8	99
125	-1.804	-1.806	0.153	0.059	33.959	6.74	293	27.335	1027.9	72.2	0.104	1441.3	124
150	-1.767	-1.770	0.210	0.097	33.981	6.62	288	27.352	1028.1	70.5	0.121	1441.9	148
175	-1.612	-1.616	0.385	0.254	34.014	6.47	281	27.374	1028.2	68.3	0.139	1443.1	173
200	-1.214	-1.219	0.808	0.657	34.101	6.02	262	27.433	1028.4	62.8	0.155	1445.5	198
225	-0.877	-0.883	1.167	0.998	34.167	5.69	247	27.473	1028.5	59.1	0.170	1447.6	222
250	-0.546	-0.554	1.522	1.333	34.243	5.37	233	27.522	1028.7	54.7	0.185	1449.7	247
275	-0.155	-0.165	1.935	1.728	34.323	5.02	218	27.568	1028.9	50.6	0.198	1452.0	272
300	0.153	0.141	2.266	2.040	34.391	4.89	212	27.607	1029.0	47.2	0.210	1453.9	297
325	0.532	0.518	2.670	2.425	34.484	4.56	198	27.661	1029.2	42.5	0.221	1456.2	321
350	0.800	0.784	2.960	2.697	34.549	4.42	192	27.697	1029.3	39.4	0.231	1457.9	346
375	0.980	0.962	3.162	2.880	34.616	4.35	189	27.739	1029.5	35.6	0.241	1459.2	371
400	1.065	1.046	3.269	2.968	34.672	4.36	190	27.779	1029.7	32.0	0.249	1460.0	395
425	1.194	1.174	3.420	3.100	34.712	4.40	191	27.802	1029.8	30.0	0.257	1461.1	420
450	1.207	1.185	3.453	3.114	34.722	4.43	193	27.809	1029.9	29.5	0.264	1461.6	445
475	1.147	1.123	3.411	3.053	34.721	4.46	194	27.813	1030.0	29.2	0.272	1461.7	469
500	1.139	1.114	3.422	3.045	34.722	4.46	194	27.814	1030.2	29.1	0.279	1462.1	494
532	1.142	1.116	3.449	3.049	34.722	4.46	194	27.814	1030.3	29.2	0.288	1462.6	526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71 42.40 S 105 9.50 W
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120°W
110°W
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72°S
74°S
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33.6
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34.6
34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**133D**	2009/02/09	21:31	-70.9884	-106.0194	1540	6	1525	4	8.7	225	-3.3	989.1

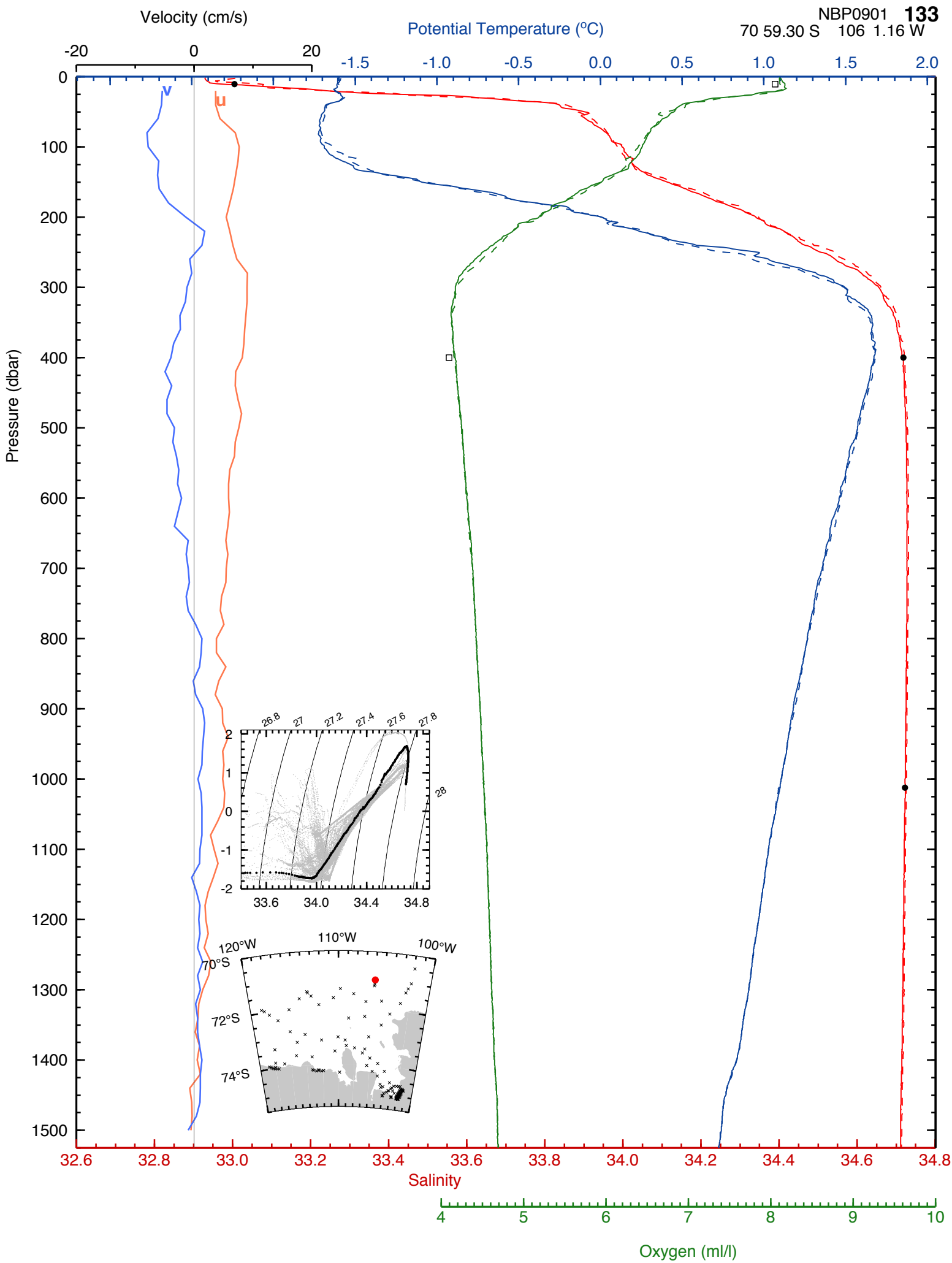
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.589	-1.589	0.221	0.219	33.007	8.13	354	90.5	26.555	1026.6	146.9	0.003	1439.0			2
25	-1.588	-1.589	0.263	0.244	33.430	7.80	339	90.5	26.899	1027.0	114.2	0.035	1440.0	0.065	146	25
50	-1.690	-1.691	0.206	0.168	33.885	6.82	297	94.9	27.272	1027.5	78.7	0.057	1440.5	0.070	145	50
75	-1.712	-1.714	0.207	0.150	33.954	6.54	284	96.5	27.328	1027.7	73.2	0.076	1440.9	0.097	140	74
100	-1.687	-1.689	0.252	0.177	33.986	6.44	280	97.1	27.354	1027.8	70.6	0.094	1441.5	0.110	136	99
125	-1.525	-1.527	0.436	0.342	34.024	6.28	273	97.2	27.380	1028.0	68.1	0.111	1442.7	0.096	129	124
150	-1.087	-1.091	0.898	0.785	34.117	5.94	258	97.4	27.441	1028.2	62.3	0.127	1445.3	0.092	131	148
175	-0.532	-0.537	1.478	1.347	34.236	5.53	240	97.4	27.515	1028.4	55.5	0.142	1448.5	0.080	127	173
200	0.015	0.008	2.051	1.900	34.348	5.19	225	97.4	27.579	1028.5	49.7	0.155	1451.6	0.059	107	198
225	0.321	0.312	2.380	2.211	34.430	4.80	209	97.4	27.629	1028.7	45.2	0.167	1453.5	0.064	74	222
250	0.981	0.970	3.066	2.878	34.545	4.50	195	97.4	27.681	1028.9	40.8	0.178	1457.1	0.069	85	247
275	1.256	1.243	3.364	3.157	34.613	4.29	186	97.4	27.718	1029.0	37.6	0.187	1458.8	0.084	94	272
300	1.512	1.497	3.641	3.415	34.662	4.17	181	97.4	27.739	1029.2	35.9	0.197	1460.4	0.091	97	297
325	1.618	1.601	3.767	3.522	34.691	4.13	180	97.5	27.754	1029.3	34.6	0.205	1461.3	0.091	100	321
350	1.681	1.663	3.850	3.587	34.707	4.13	179	97.5	27.763	1029.4	34.0	0.214	1462.0	0.090	105	346
375	1.682	1.662	3.870	3.588	34.714	4.14	180	97.5	27.768	1029.5	33.6	0.222	1462.5	0.091	109	371
400	1.694	1.673	3.902	3.600	34.721	4.17	181	97.5	27.774	1029.7	33.2	0.231	1462.9	0.091	115	395
425	1.674	1.651	3.900	3.580	34.723	4.19	182	97.5	27.777	1029.8	33.0	0.239	1463.2	0.086	125	420
450	1.648	1.625	3.894	3.555	34.726	4.21	183	97.5	27.781	1029.9	32.7	0.247	1463.5	0.082	119	445
475	1.619	1.593	3.883	3.525	34.727	4.23	184	97.5	27.784	1030.0	32.4	0.255	1463.8	0.090	121	470
500	1.600	1.573	3.883	3.506	34.729	4.25	185	97.5	27.787	1030.1	32.2	0.264	1464.2	0.086	115	494
550	1.542	1.513	3.863	3.449	34.730	4.28	186	97.5	27.793	1030.4	31.8	0.280	1464.7	0.073	113	544
600	1.492	1.461	3.851	3.399	34.731	4.31	187	97.5	27.797	1030.6	31.5	0.295	1465.3	0.064	112	593
650	1.438	1.403	3.834	3.345	34.731	4.35	189	97.5	27.802	1030.8	31.2	0.311	1465.9	0.065	118	642
700	1.394	1.357	3.828	3.301	34.731	4.38	190	97.5	27.805	1031.1	31.0	0.327	1466.5	0.057	101	692
750	1.347	1.307	3.819	3.254	34.731	4.40	191	97.5	27.808	1031.3	30.8	0.342	1467.2	0.049	105	741
800	1.307	1.265	3.817	3.214	34.730	4.42	192	97.5	27.810	1031.6	30.7	0.357	1467.8	0.045	79	790
850	1.268	1.223	3.815	3.175	34.729	4.45	193	97.5	27.812	1031.8	30.5	0.373	1468.5	0.055	80	839
900	1.228	1.179	3.812	3.134	34.728	4.47	194	97.5	27.815	1032.0	30.4	0.388	1469.1	0.042	80	889
950	1.194	1.143	3.816	3.100	34.727	4.49	195	97.5	27.817	1032.3	30.3	0.403	1469.8	0.059	74	938
1000	1.159	1.105	3.819	3.066	34.726	4.51	196	97.5	27.818	1032.5	30.2	0.418	1470.4	0.052	78	987
1200	1.033	0.968	3.843	2.939	34.722	4.58	199	97.5	27.824	1033.4	29.8	0.478	1473.2	0.021	63	1184
1400	0.910	0.833	3.870	2.816	34.718	4.65	202	97.5	27.829	1034.4	29.3	0.537	1476.0	0.013	44	1381
1540	0.789	0.704	3.854	2.695	34.712	4.70	204	97.4	27.833	1035.0	28.8	0.578	1477.7			1518

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	133B	2009/02/09	22:04	-70.9881	-106.0219	1540	6	1525	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
11	-1.600	-1.600	32.993	26.545	8.12	353	33.005	8.05	350			9	10
400	1.706	1.685	34.718	27.770	4.16	181	34.718	4.10	178			5	396
1012	1.141	1.087	34.724	27.818	4.53	197	34.723					3	999
1540	0.790	0.705	34.712	27.833	4.70	204	34.710	4.62	201			1	1518

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	133U	2009/02/09	22:37	-70.9878	-106.0236	1540	6	1525	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.608	-1.608	0.197	0.196	32.930	8.11	353	26.494	1026.5	152.8	0.002	1438.8	1
25	-1.583	-1.584	0.268	0.249	33.430	7.85	341	26.899	1027.0	114.2	0.035	1440.0	25
50	-1.693	-1.694	0.205	0.167	33.904	6.71	292	27.287	1027.5	77.2	0.058	1440.5	50
75	-1.711	-1.712	0.207	0.151	33.946	6.55	285	27.322	1027.7	73.8	0.077	1440.9	74
100	-1.625	-1.627	0.315	0.240	33.998	6.39	278	27.361	1027.8	69.9	0.095	1441.8	99
125	-1.488	-1.491	0.473	0.379	34.027	6.25	272	27.381	1028.0	68.0	0.112	1442.9	124
150	-1.066	-1.070	0.918	0.805	34.115	5.96	259	27.438	1028.2	62.6	0.128	1445.4	148
175	-0.536	-0.542	1.474	1.342	34.230	5.54	241	27.511	1028.3	56.0	0.143	1448.5	173
200	0.012	0.005	2.047	1.896	34.341	5.20	226	27.574	1028.5	50.3	0.156	1451.6	198
225	0.330	0.321	2.389	2.219	34.427	4.82	210	27.627	1028.7	45.5	0.168	1453.5	222
250	0.783	0.772	2.866	2.677	34.509	4.61	200	27.665	1028.8	42.2	0.179	1456.1	247
275	1.229	1.216	3.335	3.128	34.600	4.35	189	27.710	1029.0	38.4	0.189	1458.7	272
300	1.506	1.491	3.634	3.408	34.656	4.19	182	27.735	1029.1	36.3	0.199	1460.4	297
325	1.570	1.554	3.719	3.474	34.678	4.17	181	27.747	1029.3	35.2	0.208	1461.1	321
350	1.673	1.655	3.842	3.578	34.700	4.13	180	27.758	1029.4	34.4	0.216	1462.0	346
375	1.689	1.669	3.877	3.595	34.709	4.14	180	27.764	1029.5	34.0	0.225	1462.5	371
400	1.705	1.684	3.912	3.611	34.718	4.16	181	27.770	1029.6	33.6	0.233	1463.0	395
425	1.685	1.663	3.912	3.592	34.721	4.18	182	27.774	1029.8	33.3	0.242	1463.3	420
450	1.658	1.635	3.904	3.565	34.722	4.20	183	27.777	1029.9	33.1	0.250	1463.6	445
475	1.630	1.605	3.894	3.537	34.723	4.22	183	27.780	1030.0	32.8	0.258	1463.9	470
500	1.603	1.577	3.886	3.510	34.725	4.25	184	27.784	1030.1	32.5	0.266	1464.2	494
550	1.550	1.521	3.871	3.457	34.727	4.27	186	27.789	1030.4	32.2	0.282	1464.8	544
600	1.499	1.467	3.857	3.405	34.727	4.31	187	27.794	1030.6	31.9	0.298	1465.3	593
650	1.449	1.415	3.845	3.356	34.728	4.34	189	27.798	1030.8	31.6	0.314	1466.0	642
700	1.398	1.361	3.832	3.305	34.728	4.38	190	27.802	1031.1	31.3	0.330	1466.5	692
750	1.354	1.314	3.825	3.261	34.727	4.40	191	27.805	1031.3	31.1	0.346	1467.2	741
800	1.310	1.268	3.819	3.217	34.727	4.42	192	27.808	1031.6	30.9	0.361	1467.8	790
850	1.274	1.228	3.820	3.180	34.726	4.45	193	27.810	1031.8	30.8	0.377	1468.5	839
900	1.235	1.186	3.819	3.141	34.725	4.47	194	27.812	1032.0	30.7	0.392	1469.1	889
950	1.194	1.143	3.816	3.101	34.724	4.49	195	27.814	1032.3	30.5	0.407	1469.8	938
1000	1.161	1.108	3.821	3.068	34.723	4.52	196	27.816	1032.5	30.4	0.423	1470.4	987
1200	1.034	0.968	3.843	2.940	34.719	4.58	199	27.822	1033.4	30.0	0.483	1473.2	1184
1400	0.911	0.834	3.871	2.817	34.715	4.64	202	27.827	1034.4	29.6	0.542	1476.0	1381
1540	0.789	0.704	3.854	2.695	34.712	4.70	204	27.833	1035.0	28.8	0.583	1477.7	1518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27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**134D**	2009/02/10	01:26	-71.0338	-105.9754	1084	8	1078	3	10.4	216	-4.2	989.8

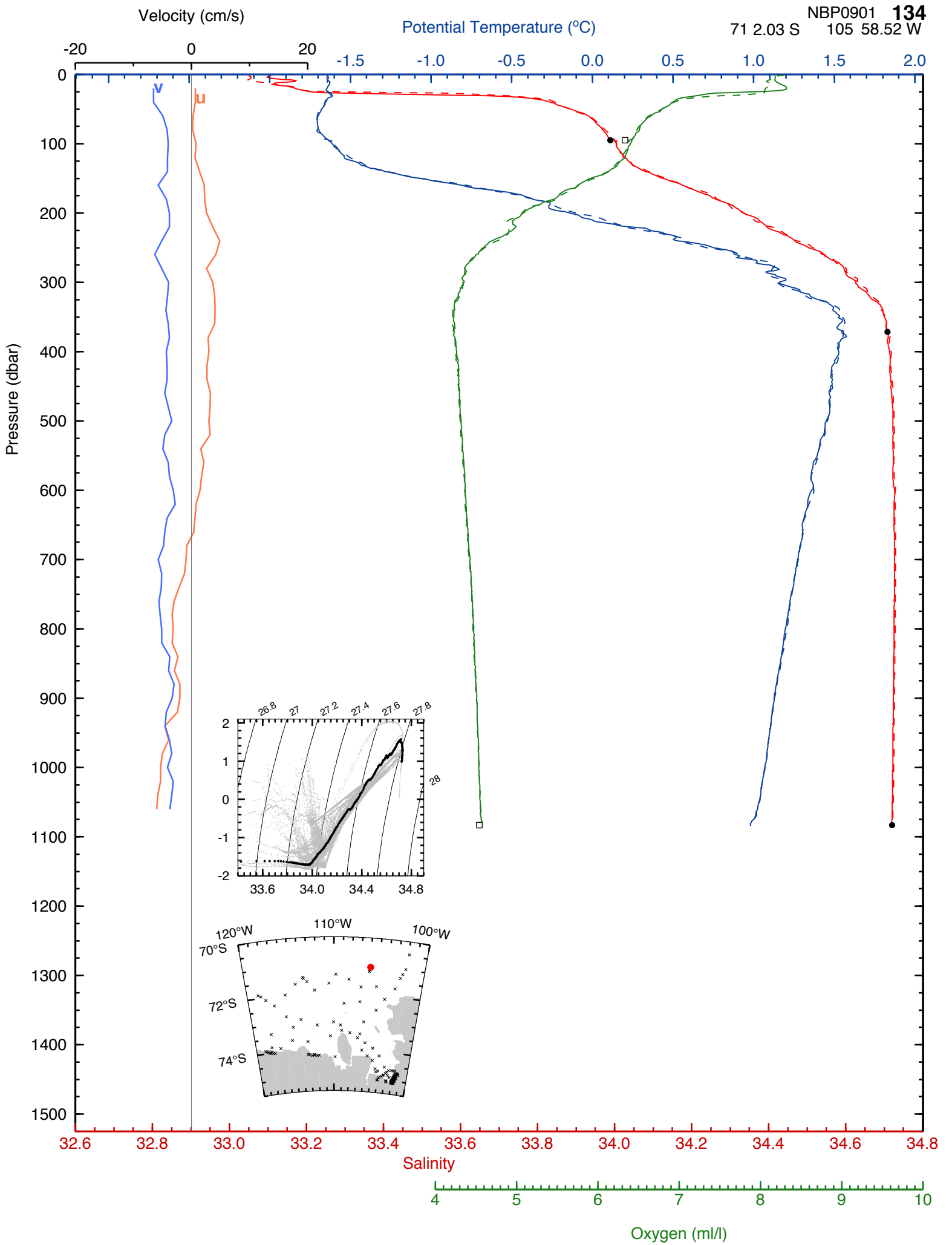
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.640	-1.640	0.172	0.171	33.050	8.18	356	90.9	26.592	1026.6	143.5	0.003	1438.8			2
25	-1.638	-1.638	0.206	0.187	33.304	7.90	344	89.6	26.798	1026.9	123.7	0.035	1439.6	0.065	174	25
50	-1.679	-1.680	0.217	0.179	33.888	6.79	295	95.2	27.273	1027.5	78.5	0.057	1440.6	0.057	175	50
75	-1.701	-1.702	0.219	0.162	33.968	6.52	283	96.8	27.339	1027.7	72.2	0.075	1441.0	0.044	177	74
100	-1.611	-1.613	0.329	0.254	34.005	6.40	278	97.2	27.367	1027.8	69.4	0.093	1441.9	0.041	169	99
125	-1.476	-1.479	0.485	0.391	34.037	6.27	273	97.2	27.389	1028.0	67.2	0.110	1443.0	0.041	170	124
150	-1.056	-1.060	0.930	0.817	34.136	5.91	257	97.4	27.456	1028.2	61.0	0.126	1445.5	0.051	160	148
175	-0.423	-0.429	1.588	1.456	34.255	5.52	240	97.4	27.526	1028.4	54.6	0.141	1449.0	0.053	154	173
200	-0.134	-0.141	1.900	1.750	34.334	5.08	221	97.4	27.576	1028.5	50.0	0.154	1450.9	0.046	146	198
225	0.373	0.364	2.432	2.262	34.424	4.94	215	97.3	27.621	1028.7	46.0	0.166	1453.7	0.055	136	222
250	0.764	0.753	2.847	2.659	34.516	4.59	199	97.4	27.672	1028.9	41.5	0.177	1456.0	0.073	140	247
275	1.112	1.099	3.217	3.010	34.590	4.38	190	97.3	27.709	1029.0	38.3	0.187	1458.1	0.065	150	272
300	1.172	1.158	3.299	3.074	34.630	4.35	189	97.4	27.738	1029.2	35.7	0.196	1458.8	0.054	139	297
325	1.421	1.405	3.570	3.325	34.680	4.25	185	97.4	27.760	1029.3	33.9	0.205	1460.4	0.057	136	321
350	1.544	1.526	3.713	3.450	34.701	4.23	184	97.4	27.768	1029.4	33.4	0.213	1461.4	0.059	136	346
375	1.584	1.564	3.772	3.490	34.714	4.22	184	97.4	27.776	1029.5	32.7	0.221	1462.0	0.052	139	371
400	1.548	1.527	3.755	3.454	34.718	4.26	185	97.4	27.782	1029.7	32.3	0.229	1462.3	0.051	145	395
425	1.505	1.483	3.731	3.411	34.717	4.29	186	97.4	27.785	1029.8	32.1	0.237	1462.5	0.050	147	420
450	1.511	1.487	3.756	3.417	34.723	4.29	186	97.4	27.789	1029.9	31.8	0.245	1462.9	0.052	147	445
475	1.492	1.467	3.756	3.398	34.724	4.30	187	97.4	27.791	1030.0	31.6	0.253	1463.3	0.054	143	470
500	1.475	1.449	3.758	3.382	34.725	4.32	188	97.4	27.794	1030.1	31.5	0.261	1463.6	0.047	139	494
550	1.422	1.393	3.743	3.329	34.726	4.34	189	97.4	27.798	1030.4	31.1	0.277	1464.2	0.051	160	544
600	1.391	1.359	3.749	3.297	34.729	4.37	190	97.4	27.803	1030.6	30.9	0.292	1464.9	0.037	155	593
650	1.336	1.302	3.732	3.242	34.728	4.39	191	97.4	27.806	1030.9	30.6	0.308	1465.5	0.042	172	642
700	1.308	1.272	3.742	3.215	34.729	4.43	192	97.4	27.809	1031.1	30.4	0.323	1466.2	0.054	189	692
750	1.272	1.232	3.743	3.178	34.729	4.45	193	97.4	27.812	1031.3	30.3	0.338	1466.8	0.056	202	741
800	1.238	1.196	3.747	3.144	34.728	4.47	194	97.4	27.814	1031.6	30.2	0.353	1467.5	0.061	211	790
850	1.209	1.164	3.756	3.116	34.727	4.49	195	97.4	27.815	1031.8	30.1	0.368	1468.2	0.044	212	839
900	1.175	1.127	3.759	3.081	34.727	4.51	196	97.4	27.817	1032.0	30.0	0.383	1468.8	0.037	213	889
950	1.149	1.098	3.771	3.055	34.726	4.52	196	97.4	27.819	1032.3	30.0	0.398	1469.6	0.062	224	938
1000	1.122	1.069	3.782	3.029	34.725	4.53	197	97.4	27.820	1032.5	29.9	0.413	1470.3	0.062	235	987
1084	1.040	0.982	3.763	2.947	34.721	4.57	199	97.4	27.822	1032.9	29.7	0.439	1471.3			1070

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	134B	2009/02/10	01:51	-71.0329	-105.9757	1083	8	1078	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
95	-1.658	-1.660	33.993	27.359	6.42	279	33.989	6.33	275			6	94
372	1.581	1.561	34.710	27.773	4.22	183	34.709					4	367
1083	1.035	0.977	34.721	27.823	4.57	199	34.721	4.54	197			2	1069

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	134U	2009/02/10	02:17	-71.0313	-105.9757	1083	8	1078	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.645	-1.645	0.170	0.170	33.108	8.30	361	26.639	1026.6	139.0	0.001	1438.9	1
25	-1.640	-1.641	0.199	0.180	33.211	8.05	350	26.722	1026.8	130.9	0.034	1439.4	25
50	-1.681	-1.682	0.215	0.178	33.886	6.78	295	27.273	1027.5	78.6	0.057	1440.6	50
75	-1.702	-1.703	0.217	0.161	33.962	6.51	283	27.334	1027.7	72.6	0.076	1441.0	74
100	-1.608	-1.610	0.333	0.258	34.005	6.38	277	27.367	1027.8	69.4	0.093	1441.9	99
125	-1.465	-1.468	0.496	0.402	34.036	6.26	272	27.388	1028.0	67.3	0.111	1443.0	124
150	-1.056	-1.060	0.929	0.816	34.127	5.95	259	27.448	1028.2	61.7	0.127	1445.5	148
175	-0.434	-0.440	1.577	1.445	34.247	5.53	240	27.520	1028.4	55.2	0.141	1449.0	173
200	-0.096	-0.103	1.939	1.789	34.336	5.07	220	27.575	1028.5	50.1	0.154	1451.1	198
225	0.330	0.321	2.388	2.218	34.414	4.90	213	27.616	1028.7	46.5	0.166	1453.5	222
250	0.721	0.710	2.803	2.615	34.505	4.61	200	27.666	1028.8	42.1	0.178	1455.8	247
275	1.138	1.125	3.244	3.037	34.589	4.38	190	27.707	1029.0	38.5	0.188	1458.2	272
300	1.166	1.151	3.292	3.067	34.626	4.34	188	27.735	1029.1	36.0	0.197	1458.8	297
325	1.398	1.382	3.546	3.301	34.670	4.28	186	27.754	1029.3	34.5	0.206	1460.3	321
350	1.567	1.550	3.736	3.473	34.701	4.21	183	27.767	1029.4	33.5	0.214	1461.5	346
375	1.574	1.555	3.763	3.480	34.711	4.22	184	27.774	1029.5	33.0	0.222	1462.0	371
400	1.546	1.525	3.753	3.452	34.714	4.25	185	27.779	1029.7	32.6	0.231	1462.2	395
425	1.510	1.488	3.736	3.416	34.714	4.28	186	27.782	1029.8	32.3	0.239	1462.5	420
450	1.501	1.478	3.746	3.407	34.718	4.28	186	27.785	1029.9	32.1	0.247	1462.9	445
475	1.498	1.473	3.762	3.404	34.721	4.29	187	27.788	1030.0	31.9	0.255	1463.3	470
500	1.483	1.457	3.766	3.389	34.723	4.30	187	27.791	1030.1	31.7	0.263	1463.6	494
550	1.428	1.400	3.749	3.335	34.724	4.33	188	27.796	1030.4	31.4	0.279	1464.2	544
600	1.404	1.372	3.762	3.310	34.727	4.36	190	27.800	1030.6	31.1	0.294	1464.9	593
650	1.340	1.306	3.736	3.246	34.725	4.39	191	27.804	1030.9	30.9	0.310	1465.5	642
700	1.313	1.276	3.747	3.220	34.727	4.42	192	27.807	1031.1	30.7	0.325	1466.2	692
750	1.276	1.236	3.747	3.182	34.726	4.44	193	27.809	1031.3	30.5	0.340	1466.8	741
800	1.247	1.205	3.756	3.154	34.726	4.46	194	27.811	1031.6	30.5	0.356	1467.5	790
850	1.214	1.169	3.760	3.120	34.725	4.48	195	27.813	1031.8	30.4	0.371	1468.2	839
900	1.176	1.129	3.761	3.083	34.724	4.51	196	27.815	1032.0	30.3	0.386	1468.8	889
950	1.148	1.097	3.770	3.054	34.723	4.52	196	27.816	1032.3	30.2	0.401	1469.5	938
1000	1.125	1.071	3.784	3.031	34.722	4.54	197	27.817	1032.5	30.2	0.416	1470.3	987
1084	1.040	0.982	3.763	2.947	34.721	4.57	199	27.822	1032.9	29.7	0.441	1471.3	1070


Velocity (cm/s)
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Potential Temperature (°C)
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-1.0
-0.5
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NBP0901 134
71 2.03 S
105 58.52 W
Pressure (dbar)
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120°W
110°W
100°W
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72°S
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34.2
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34.8
Salinity
4
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**135D**	2009/02/10	04:15	-71.1342	-106.0301	515	7	516	2	10.3	202	-4.5	990.1

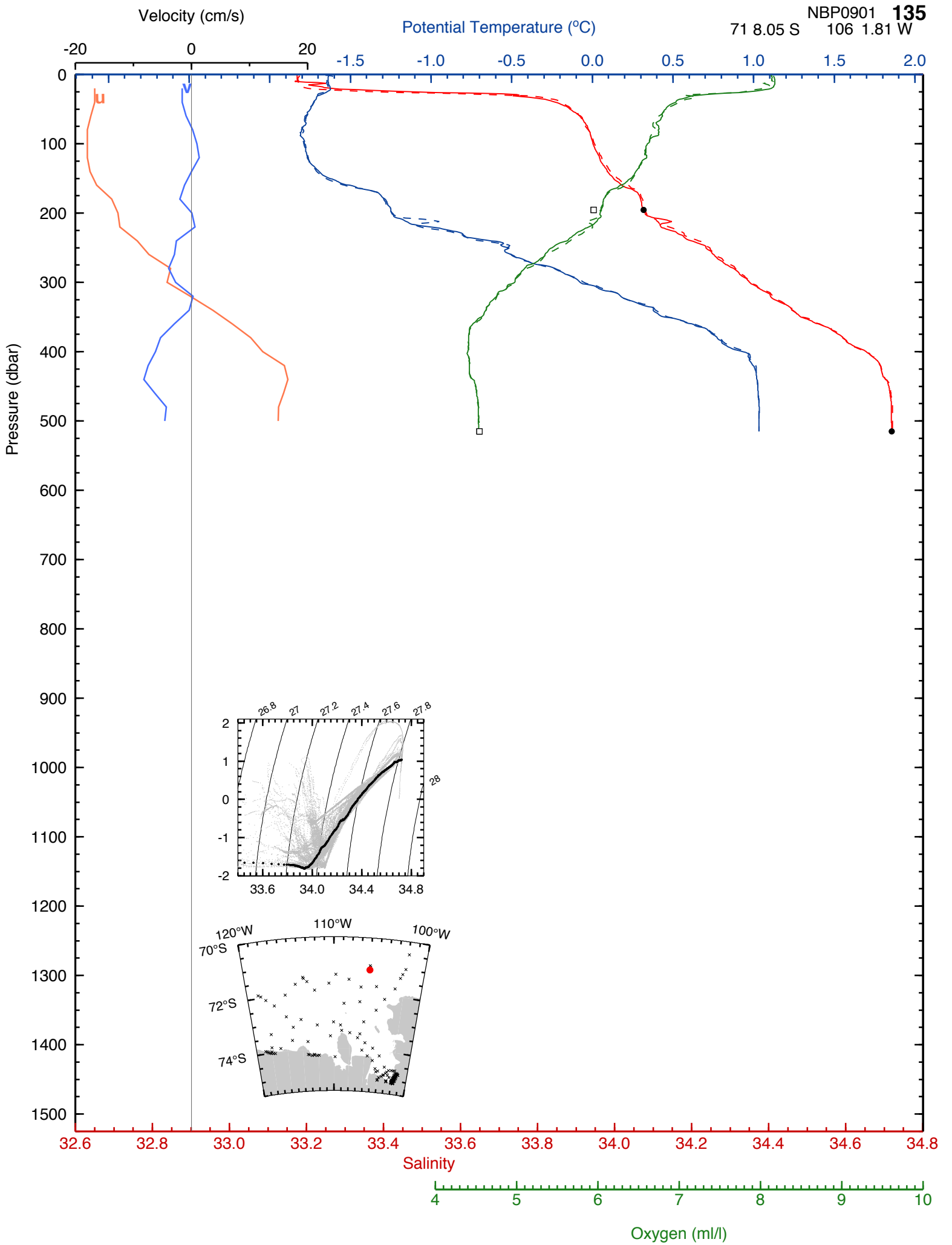
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.636	-1.636	0.184	0.182	33.182	8.16	355	90.3	26.699	1026.7	133.3	0.003	1439.0			2
25	-1.645	-1.645	0.204	0.185	33.384	7.84	341	89.5	26.863	1027.0	117.6	0.033	1439.7	0.168	264	25
50	-1.748	-1.749	0.148	0.110	33.888	6.83	297	95.0	27.276	1027.5	78.3	0.054	1440.2	0.170	266	50
75	-1.790	-1.792	0.127	0.071	33.925	6.75	293	96.2	27.306	1027.7	75.2	0.074	1440.5	0.177	270	74
100	-1.783	-1.785	0.154	0.079	33.948	6.61	287	96.8	27.325	1027.8	73.3	0.092	1441.0	0.179	273	99
125	-1.753	-1.755	0.205	0.111	33.972	6.54	284	97.2	27.344	1027.9	71.4	0.110	1441.5	0.178	273	124
150	-1.624	-1.628	0.354	0.241	34.008	6.40	278	97.3	27.370	1028.1	68.8	0.128	1442.6	0.170	268	148
175	-1.307	-1.311	0.694	0.562	34.068	6.10	265	97.4	27.409	1028.2	65.1	0.144	1444.6	0.147	263	173
200	-1.235	-1.240	0.786	0.635	34.082	6.03	262	97.4	27.418	1028.4	64.2	0.161	1445.4	0.128	270	198
225	-0.876	-0.883	1.168	0.998	34.165	5.80	252	97.4	27.472	1028.5	59.2	0.176	1447.6	0.120	271	222
250	-0.511	-0.519	1.557	1.368	34.247	5.43	236	97.4	27.523	1028.7	54.6	0.190	1449.8	0.090	252	247
275	-0.307	-0.317	1.782	1.575	34.303	5.14	224	97.4	27.559	1028.9	51.3	0.204	1451.3	0.064	233	272
300	-0.064	-0.075	2.047	1.821	34.352	4.97	216	97.4	27.587	1029.0	48.9	0.216	1452.9	0.051	235	297
325	0.229	0.216	2.363	2.118	34.423	4.71	205	97.4	27.629	1029.2	45.2	0.228	1454.7	0.006	311	321
350	0.466	0.451	2.622	2.358	34.487	4.56	198	97.3	27.667	1029.3	41.8	0.239	1456.3	0.049	101	346
375	0.761	0.744	2.942	2.659	34.581	4.41	192	97.3	27.725	1029.5	36.7	0.248	1458.2	0.097	115	371
400	0.951	0.932	3.154	2.853	34.655	4.40	191	97.1	27.773	1029.7	32.5	0.257	1459.5	0.133	117	395
425	1.028	1.008	3.252	2.932	34.693	4.42	192	97.0	27.798	1029.8	30.2	0.265	1460.3	0.177	115	420
450	1.046	1.025	3.291	2.952	34.715	4.50	195	97.2	27.814	1029.9	28.8	0.272	1460.8	0.182	115	445
475	1.055	1.032	3.319	2.961	34.721	4.52	197	97.3	27.819	1030.1	28.5	0.280	1461.3	0.164	109	470
500	1.057	1.033	3.340	2.963	34.721	4.53	197	97.4	27.819	1030.2	28.5	0.287	1461.7	0.156	107	494
515	1.058	1.033	3.352	2.964	34.721	4.53	197	97.3	27.819	1030.2	28.6	0.291	1462.0			509

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	135B	2009/02/10	04:28	-71.1342	-106.0299	515	7	516	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
195	-1.236	-1.240	34.081	27.417	6.03	262	34.075	5.95	259			3	193
515	1.058	1.033	34.721	27.819	4.53	197	34.719	4.54	197			1	509

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	135U	2009/02/10	04:40	-71.1341	-106.0292	515	7	516	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.654	-1.654	0.164	0.163	33.175	8.14	354	26.694	1026.7	133.8	0.001	1438.9	1
25	-1.661	-1.661	0.193	0.174	33.480	7.79	339	26.941	1027.1	110.2	0.032	1439.7	25
50	-1.752	-1.753	0.144	0.106	33.884	6.84	297	27.273	1027.5	78.6	0.054	1440.2	50
75	-1.792	-1.793	0.126	0.069	33.929	6.68	290	27.310	1027.7	74.9	0.073	1440.5	74
100	-1.787	-1.789	0.150	0.075	33.944	6.62	288	27.322	1027.8	73.6	0.091	1440.9	99
125	-1.754	-1.757	0.203	0.109	33.964	6.55	285	27.337	1027.9	72.0	0.110	1441.5	124
150	-1.649	-1.652	0.329	0.216	33.998	6.43	279	27.362	1028.1	69.6	0.127	1442.5	148
175	-1.304	-1.308	0.696	0.565	34.064	6.10	265	27.406	1028.2	65.5	0.144	1444.6	173
200	-1.241	-1.246	0.779	0.629	34.079	6.03	262	27.416	1028.4	64.4	0.160	1445.4	198
225	-0.914	-0.920	1.129	0.959	34.146	5.88	255	27.458	1028.5	60.5	0.176	1447.4	222
250	-0.519	-0.528	1.547	1.359	34.237	5.52	240	27.516	1028.7	55.3	0.190	1449.8	247
275	-0.317	-0.327	1.771	1.564	34.292	5.22	227	27.551	1028.9	52.1	0.204	1451.2	272
300	-0.041	-0.052	2.070	1.844	34.350	4.96	216	27.585	1029.0	49.1	0.216	1453.0	297
325	0.233	0.220	2.366	2.121	34.416	4.74	206	27.623	1029.2	45.7	0.228	1454.7	321
350	0.487	0.472	2.643	2.380	34.484	4.58	199	27.663	1029.3	42.2	0.239	1456.4	346
375	0.775	0.759	2.956	2.674	34.581	4.42	192	27.724	1029.5	36.8	0.249	1458.2	371
400	0.972	0.953	3.175	2.874	34.653	4.40	191	27.770	1029.7	32.8	0.258	1459.6	395
425	1.036	1.016	3.261	2.941	34.692	4.41	192	27.797	1029.8	30.4	0.266	1460.4	420
450	1.047	1.026	3.292	2.953	34.712	4.49	195	27.812	1029.9	29.0	0.273	1460.8	445
475	1.056	1.033	3.320	2.962	34.718	4.53	197	27.817	1030.1	28.7	0.280	1461.3	470
500	1.057	1.033	3.340	2.963	34.719	4.53	197	27.817	1030.2	28.7	0.287	1461.7	494
515	1.058	1.033	3.352	2.964	34.721	4.53	197	27.819	1030.2	28.6	0.292	1462.0	509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71 8.05 S 106 1.81 W
Pressure (dbar)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**136D**	2009/02/10	06:08	-71.1982	-106.0557	515	10	518	2	10.8	185	-4.8	990.2

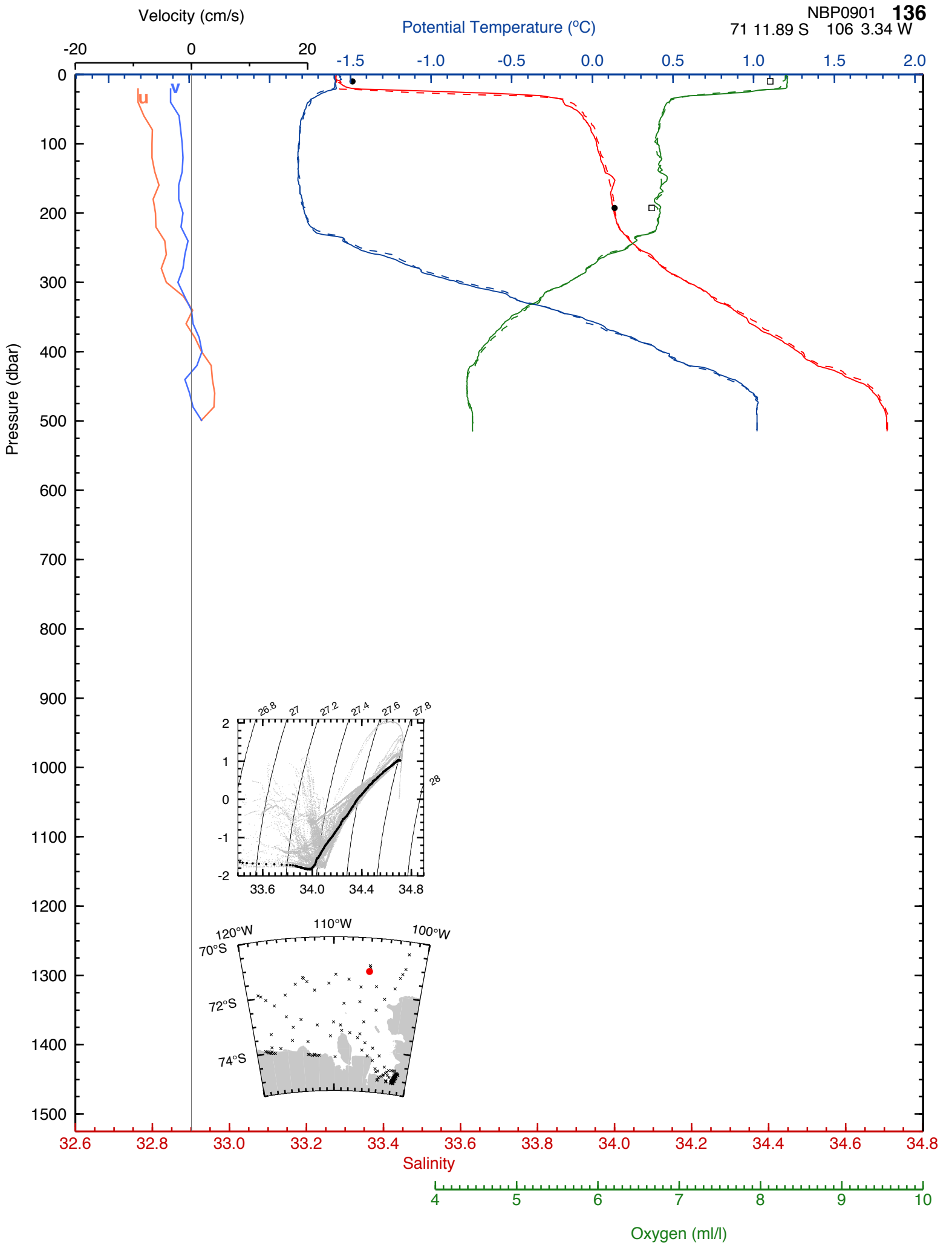
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.598	-1.598	0.226	0.225	33.276	8.32	362	88.7	26.774	1026.8	126.2	0.001	1439.3			1
25	-1.654	-1.654	0.198	0.179	33.437	7.86	342	88.1	26.907	1027.0	113.5	0.031	1439.7	0.099	249	25
50	-1.779	-1.780	0.118	0.081	33.909	6.81	296	96.2	27.293	1027.5	76.7	0.052	1440.1	0.092	252	50
75	-1.813	-1.814	0.106	0.049	33.945	6.76	294	96.9	27.324	1027.7	73.6	0.071	1440.4	0.074	255	74
100	-1.818	-1.820	0.120	0.044	33.958	6.73	293	97.1	27.335	1027.8	72.4	0.089	1440.8	0.070	257	99
125	-1.819	-1.821	0.139	0.045	33.973	6.76	294	97.3	27.346	1027.9	71.1	0.107	1441.2	0.069	257	124
150	-1.823	-1.826	0.154	0.041	33.986	6.85	298	97.3	27.357	1028.1	70.0	0.125	1441.6	0.063	253	148
175	-1.802	-1.805	0.195	0.063	33.995	6.75	293	97.3	27.364	1028.2	69.1	0.142	1442.2	0.067	251	173
200	-1.780	-1.784	0.235	0.085	34.002	6.77	294	97.3	27.369	1028.3	68.5	0.160	1442.7	0.065	256	198
225	-1.724	-1.729	0.311	0.142	34.016	6.71	292	97.3	27.379	1028.5	67.4	0.177	1443.4	0.062	255	222
250	-1.456	-1.462	0.600	0.412	34.059	6.36	277	97.3	27.407	1028.6	64.9	0.193	1445.1	0.045	260	247
275	-1.141	-1.149	0.938	0.731	34.119	5.93	258	97.4	27.445	1028.8	61.4	0.209	1447.1	0.050	255	272
300	-0.826	-0.835	1.276	1.050	34.190	5.64	245	97.3	27.490	1028.9	57.3	0.224	1449.1	0.050	244	297
325	-0.457	-0.467	1.668	1.424	34.266	5.28	229	97.4	27.537	1029.1	53.2	0.238	1451.3	0.017	220	321
350	-0.059	-0.072	2.089	1.826	34.348	4.93	214	97.4	27.584	1029.2	49.1	0.250	1453.7	0.004	150	346
375	0.193	0.178	2.364	2.082	34.413	4.72	205	97.3	27.623	1029.4	45.7	0.262	1455.3	0.012	147	371
400	0.450	0.433	2.644	2.342	34.486	4.54	197	97.3	27.667	1029.6	41.8	0.273	1457.0	0.022	39	395
425	0.739	0.720	2.957	2.637	34.576	4.41	192	97.2	27.723	1029.7	37.0	0.283	1458.9	0.035	75	420
450	0.963	0.942	3.205	2.866	34.663	4.39	191	97.1	27.779	1029.9	32.0	0.292	1460.4	0.038	104	445
475	1.048	1.025	3.311	2.953	34.697	4.42	192	97.0	27.800	1030.0	30.2	0.300	1461.2	0.040	90	470
500	1.044	1.020	3.326	2.949	34.709	4.46	194	97.0	27.810	1030.2	29.3	0.307	1461.7	0.028	54	494
515	1.044	1.019	3.338	2.950	34.708	4.46	194	97.0	27.809	1030.2	29.4	0.311	1461.9			509

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	136B	2009/02/10	06:23	-71.1982	-106.0554	192	10	518	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.601	-1.601	33.289	26.785	8.06	351	33.319	8.12	353			5	10
192	-1.778	-1.782	34.001	27.368	6.74	293	34.000	6.66	290			3	190

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	136U	2009/02/10	06:34	-71.1982	-106.0559	192	10	518	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.574	-1.574	0.250	0.250	33.278	8.31	361	26.775	1026.8	126.1	0.001	1439.5	1
25	-1.686	-1.686	0.174	0.155	33.577	7.70	335	27.021	1027.1	102.6	0.031	1439.7	25
50	-1.772	-1.773	0.124	0.087	33.895	6.83	297	27.282	1027.5	77.7	0.052	1440.1	50
75	-1.807	-1.809	0.110	0.054	33.935	6.76	294	27.315	1027.7	74.4	0.071	1440.4	74
100	-1.815	-1.817	0.122	0.047	33.953	6.73	293	27.330	1027.8	72.8	0.089	1440.8	99
125	-1.824	-1.827	0.133	0.039	33.965	6.77	295	27.340	1027.9	71.7	0.107	1441.2	124
515	1.044	1.019	3.338	2.950	34.708	4.46	194	27.809	1030.2	29.4	0.312	1461.9	509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Potential Temperature (°C)
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NBP0901 136
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Pressure (dbar)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**137D**	2009/02/10	13:37	-71.7665	-106.8981	527	4	525	3	8.4	196	-5.1	990.2

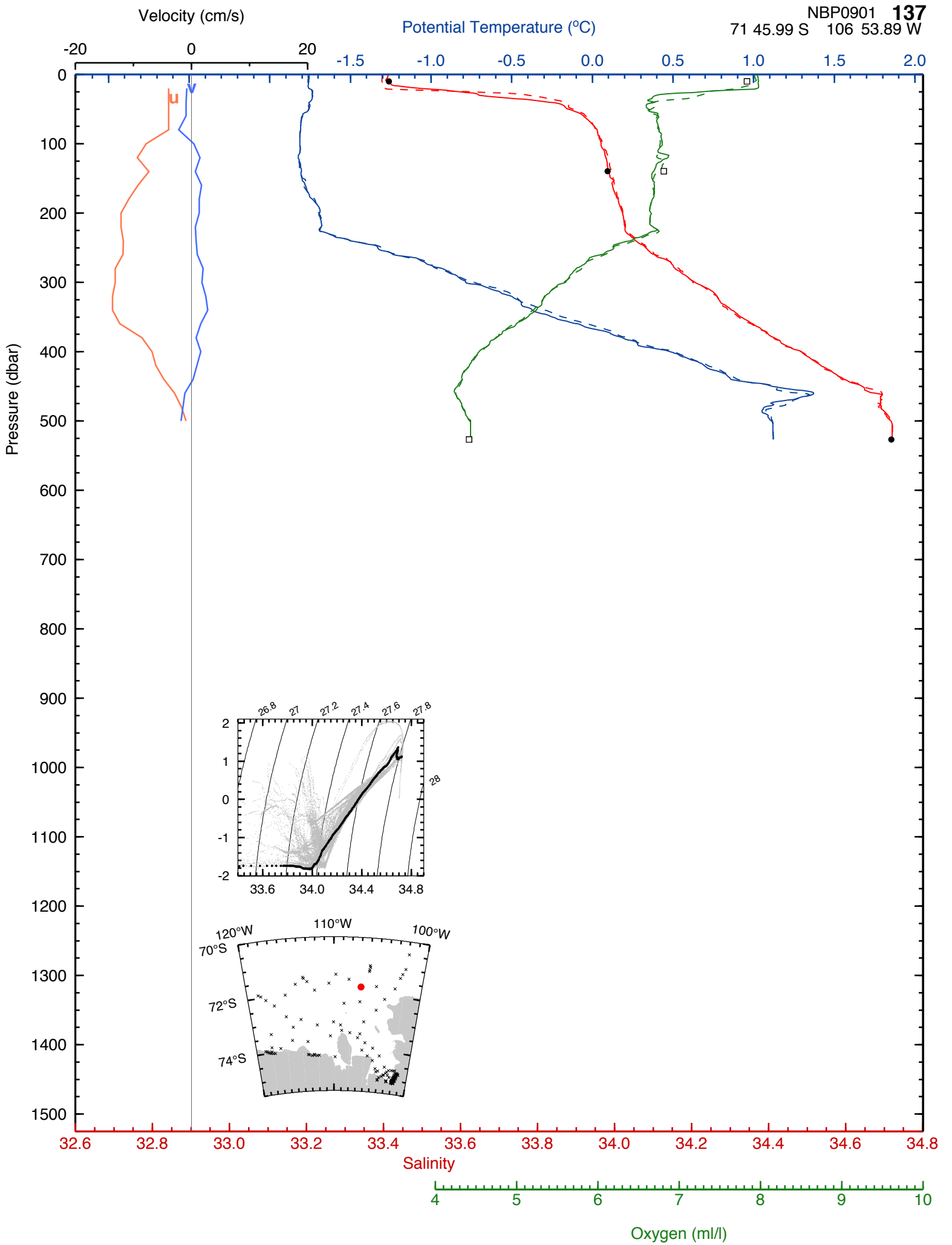
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.758	-1.758	0.073	0.073	33.396	7.96	346	90.2	26.875	1026.9	116.6	0.001	1438.7			1
25	-1.735	-1.735	0.128	0.109	33.633	7.27	316	92.1	27.068	1027.2	98.2	0.029	1439.6	0.040	258	25
50	-1.758	-1.759	0.138	0.100	33.893	6.63	288	96.4	27.280	1027.5	77.9	0.050	1440.2	0.040	257	50
75	-1.807	-1.808	0.111	0.055	33.947	6.74	293	97.1	27.325	1027.7	73.5	0.068	1440.5	0.043	245	74
100	-1.812	-1.814	0.126	0.051	33.968	6.79	295	97.3	27.342	1027.8	71.7	0.086	1440.8	0.076	271	99
125	-1.814	-1.816	0.145	0.050	33.986	6.78	295	97.3	27.357	1028.0	70.1	0.104	1441.3	0.090	279	124
150	-1.797	-1.800	0.180	0.067	33.996	6.67	290	97.3	27.365	1028.1	69.2	0.122	1441.8	0.082	278	148
175	-1.751	-1.754	0.246	0.114	34.006	6.69	291	97.4	27.372	1028.2	68.4	0.139	1442.4	0.104	278	173
200	-1.687	-1.692	0.329	0.179	34.021	6.65	289	97.3	27.382	1028.3	67.3	0.156	1443.2	0.121	276	198
225	-1.686	-1.691	0.350	0.180	34.030	6.72	292	97.3	27.390	1028.5	66.5	0.172	1443.6	0.120	273	222
250	-1.324	-1.331	0.734	0.545	34.083	6.20	269	97.4	27.421	1028.6	63.6	0.189	1445.8	0.117	274	247
275	-0.999	-1.007	1.082	0.875	34.153	5.81	253	97.4	27.467	1028.8	59.5	0.204	1447.8	0.127	277	272
300	-0.777	-0.786	1.325	1.100	34.203	5.60	243	97.3	27.499	1028.9	56.5	0.218	1449.3	0.132	278	297
325	-0.453	-0.464	1.672	1.428	34.274	5.32	231	97.4	27.543	1029.1	52.6	0.232	1451.4	0.138	280	321
350	-0.235	-0.247	1.912	1.649	34.323	5.13	223	97.4	27.572	1029.2	50.1	0.245	1452.8	0.135	280	346
375	0.135	0.121	2.305	2.023	34.397	4.81	209	97.4	27.613	1029.4	46.6	0.257	1455.1	0.103	276	371
400	0.499	0.481	2.692	2.391	34.484	4.54	197	97.4	27.663	1029.6	42.3	0.268	1457.2	0.073	281	395
425	0.747	0.727	2.963	2.643	34.546	4.39	191	97.4	27.698	1029.7	39.3	0.278	1458.9	0.062	278	420
450	1.141	1.119	3.381	3.043	34.643	4.27	186	97.3	27.750	1029.9	34.9	0.288	1461.2	0.043	268	445
475	1.134	1.111	3.396	3.038	34.688	4.32	188	97.3	27.787	1030.0	31.6	0.296	1461.6	0.027	239	469
500	1.135	1.110	3.417	3.041	34.721	4.44	193	97.1	27.814	1030.2	29.1	0.303	1462.1	0.021	213	494
527	1.148	1.121	3.451	3.054	34.721	4.43	193	97.1	27.813	1030.3	29.3	0.311	1462.6			521

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	137B	2009/02/10	13:54	-71.7658	-106.9021	527	4	525	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.759	-1.759	33.407	26.884	7.95	346	33.414	7.83	341			7	10
140	-1.809	-1.811	33.985	27.356	6.74	293	33.982	6.81	296			6	138
527	1.148	1.122	34.721	27.813	4.43	193	34.719	4.41	192			1	521

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	137U	2009/02/10	14:09	-71.7656	-106.9004	527	4	525	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.756	-1.756	0.076	0.075	33.412	7.93	345	26.889	1026.9	115.3	0.001	1438.8	1
25	-1.737	-1.737	0.124	0.105	33.600	7.35	320	27.041	1027.2	100.7	0.028	1439.5	25
50	-1.758	-1.759	0.138	0.100	33.880	6.65	289	27.269	1027.5	78.9	0.050	1440.2	50
75	-1.807	-1.808	0.112	0.055	33.948	6.74	293	27.326	1027.7	73.4	0.069	1440.5	74
100	-1.811	-1.812	0.128	0.052	33.965	6.76	294	27.340	1027.8	71.9	0.087	1440.9	99
125	-1.817	-1.820	0.141	0.047	33.980	6.83	297	27.352	1028.0	70.6	0.105	1441.2	124
150	-1.790	-1.793	0.188	0.075	33.992	6.68	290	27.361	1028.1	69.6	0.122	1441.8	148
175	-1.744	-1.748	0.253	0.121	34.004	6.68	290	27.370	1028.2	68.6	0.140	1442.5	173
200	-1.692	-1.696	0.325	0.174	34.021	6.66	290	27.382	1028.3	67.3	0.157	1443.1	198
225	-1.688	-1.693	0.348	0.178	34.028	6.74	293	27.387	1028.5	66.7	0.173	1443.6	222
250	-1.298	-1.304	0.760	0.572	34.081	6.17	268	27.419	1028.6	63.8	0.190	1445.9	247
275	-0.988	-0.996	1.092	0.885	34.151	5.82	253	27.465	1028.8	59.6	0.205	1447.9	272
300	-0.723	-0.733	1.379	1.154	34.209	5.58	243	27.502	1028.9	56.3	0.220	1449.6	297
325	-0.445	-0.456	1.681	1.436	34.271	5.32	231	27.540	1029.1	52.9	0.233	1451.4	321
350	-0.169	-0.181	1.979	1.715	34.329	5.11	222	27.573	1029.2	50.0	0.246	1453.2	346
375	0.167	0.153	2.338	2.055	34.399	4.79	208	27.613	1029.4	46.6	0.258	1455.2	371
400	0.527	0.510	2.721	2.419	34.484	4.55	198	27.661	1029.6	42.5	0.269	1457.4	395
425	0.791	0.772	3.008	2.688	34.553	4.39	191	27.701	1029.7	39.1	0.280	1459.1	420
450	1.154	1.132	3.395	3.056	34.643	4.29	186	27.750	1029.9	35.0	0.289	1461.2	445
475	1.219	1.195	3.481	3.123	34.690	4.30	187	27.783	1030.0	32.1	0.297	1462.0	469
500	1.140	1.116	3.423	3.046	34.718	4.42	192	27.811	1030.2	29.4	0.305	1462.1	494
527	1.148	1.121	3.451	3.054	34.721	4.43	193	27.813	1030.3	29.3	0.313	1462.6	521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Potential Temperature (°C)
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Pressure (dbar)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**138D**	2009/02/10	23:50	-71.5071	-108.3131	490	9	493	2	7.6	207	-5.2	987.8

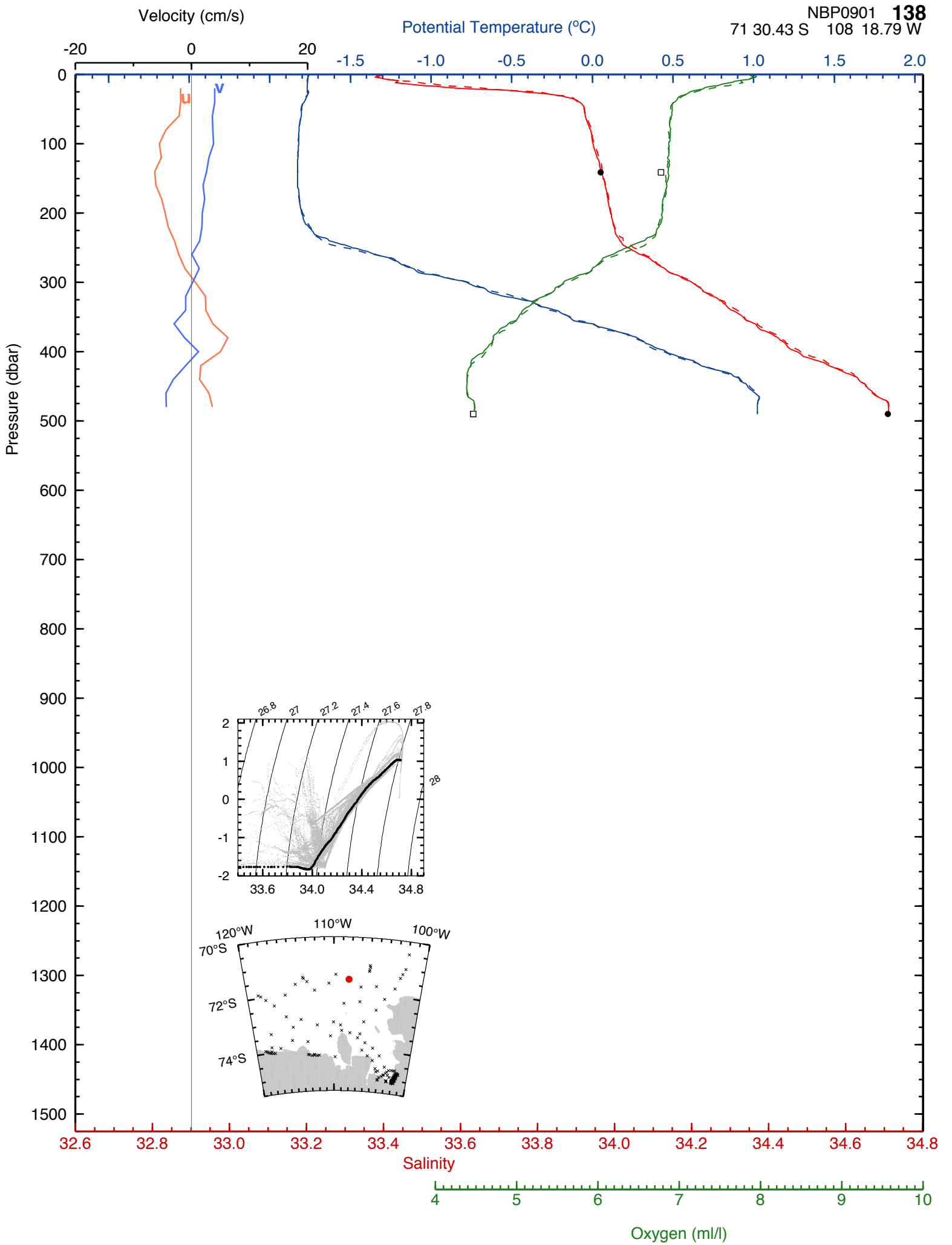
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.756	-1.756	0.075	0.074	33.386	7.93	345	91.9	26.867	1026.9	117.4	0.001	1438.7			1
25	-1.760	-1.760	0.113	0.094	33.797	7.13	310	95.5	27.202	1027.3	85.5	0.027	1439.7	0.044	335	25
50	-1.802	-1.802	0.097	0.059	33.921	6.91	301	96.8	27.304	1027.5	75.7	0.046	1440.0	0.043	332	50
75	-1.816	-1.818	0.102	0.045	33.938	6.88	299	97.0	27.318	1027.7	74.2	0.065	1440.4	0.053	316	74
100	-1.819	-1.821	0.118	0.043	33.947	6.87	299	97.1	27.325	1027.8	73.3	0.083	1440.8	0.067	305	99
125	-1.826	-1.828	0.131	0.037	33.963	6.88	299	97.2	27.338	1027.9	71.9	0.102	1441.2	0.061	299	124
150	-1.826	-1.829	0.150	0.037	33.972	6.87	298	97.3	27.346	1028.1	71.0	0.119	1441.6	0.066	291	148
175	-1.815	-1.819	0.180	0.049	33.984	6.82	296	97.3	27.355	1028.2	70.0	0.137	1442.1	0.059	292	173
200	-1.799	-1.803	0.216	0.066	33.991	6.79	295	97.3	27.360	1028.3	69.3	0.154	1442.6	0.050	293	198
225	-1.735	-1.739	0.300	0.131	34.004	6.72	292	97.3	27.370	1028.5	68.3	0.172	1443.3	0.043	294	222
250	-1.481	-1.487	0.575	0.387	34.050	6.36	276	97.3	27.400	1028.6	65.5	0.188	1445.0	0.028	287	247
275	-1.166	-1.173	0.913	0.705	34.116	5.99	260	97.3	27.443	1028.8	61.5	0.204	1447.0	0.019	301	272
300	-0.772	-0.781	1.331	1.105	34.205	5.58	242	97.3	27.500	1028.9	56.4	0.219	1449.4	0.009	115	297
325	-0.427	-0.438	1.698	1.454	34.273	5.24	228	97.3	27.541	1029.1	52.8	0.233	1451.5	0.026	113	321
350	-0.130	-0.142	2.018	1.755	34.337	5.02	218	97.3	27.578	1029.2	49.6	0.245	1453.3	0.033	117	346
375	0.236	0.221	2.408	2.125	34.418	4.74	206	97.3	27.624	1029.4	45.6	0.257	1455.5	0.057	114	371
400	0.473	0.456	2.667	2.366	34.483	4.59	200	97.3	27.663	1029.6	42.2	0.268	1457.1	0.054	82	395
425	0.766	0.746	2.984	2.664	34.584	4.41	192	97.2	27.727	1029.7	36.6	0.278	1459.0	0.019	122	420
450	0.983	0.962	3.224	2.886	34.652	4.38	190	97.1	27.768	1029.9	33.0	0.287	1460.5	0.038	153	445
475	1.047	1.024	3.310	2.953	34.712	4.48	195	97.1	27.812	1030.0	29.1	0.295	1461.3	0.054	143	469
490	1.047	1.023	3.322	2.953	34.713	4.48	195	97.1	27.813	1030.1	29.0	0.299	1461.5			484

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	138B	2009/02/10	00:03	-71.5062	-108.3166	490	9	493	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
141	-1.824	-1.827	33.967	27.342	6.84	297	33.964	6.78	295			4,3	140
490	1.047	1.024	34.713	27.813	4.48	195	34.710	4.47	194			2,1	484

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	138U	2009/02/11	00:16	-71.5054	-108.3200	490	9	493	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.765	-1.765	0.066	0.065	33.399	7.87	342	26.878	1026.9	116.3	0.001	1438.7	1
25	-1.767	-1.768	0.103	0.084	33.765	7.20	313	27.176	1027.3	87.9	0.027	1439.6	25
50	-1.806	-1.807	0.092	0.055	33.922	6.89	300	27.305	1027.5	75.6	0.047	1440.0	50
75	-1.815	-1.817	0.102	0.046	33.934	6.87	299	27.314	1027.7	74.5	0.066	1440.4	74
100	-1.821	-1.823	0.116	0.040	33.944	6.88	299	27.323	1027.8	73.5	0.084	1440.8	99
125	-1.826	-1.829	0.131	0.036	33.959	6.86	298	27.336	1027.9	72.1	0.102	1441.2	124
150	-1.825	-1.828	0.151	0.038	33.970	6.84	297	27.344	1028.1	71.2	0.120	1441.6	148
175	-1.817	-1.821	0.178	0.046	33.981	6.83	297	27.353	1028.2	70.2	0.138	1442.1	173
200	-1.793	-1.797	0.222	0.072	33.990	6.79	295	27.359	1028.3	69.4	0.155	1442.6	198
225	-1.735	-1.740	0.299	0.130	34.001	6.72	292	27.367	1028.5	68.6	0.173	1443.3	222
250	-1.526	-1.532	0.529	0.341	34.036	6.49	282	27.390	1028.6	66.4	0.189	1444.8	247
275	-1.158	-1.165	0.921	0.714	34.113	6.00	261	27.441	1028.8	61.8	0.205	1447.0	272
300	-0.761	-0.770	1.341	1.115	34.201	5.61	244	27.497	1028.9	56.7	0.220	1449.4	297
325	-0.400	-0.411	1.725	1.480	34.272	5.26	229	27.538	1029.1	53.1	0.234	1451.6	321
350	-0.124	-0.136	2.024	1.761	34.334	5.03	219	27.575	1029.2	49.9	0.247	1453.4	346
375	0.226	0.211	2.397	2.115	34.410	4.76	207	27.619	1029.4	46.1	0.259	1455.5	371
400	0.459	0.442	2.653	2.351	34.473	4.63	201	27.656	1029.5	42.9	0.270	1457.0	395
425	0.771	0.752	2.989	2.669	34.579	4.42	192	27.723	1029.7	37.0	0.280	1459.0	420
450	0.996	0.975	3.237	2.898	34.654	4.39	191	27.769	1029.9	33.0	0.289	1460.5	445
475	1.046	1.023	3.310	2.952	34.710	4.48	195	27.811	1030.0	29.2	0.297	1461.2	469
490	1.047	1.023	3.322	2.953	34.713	4.48	195	27.813	1030.1	29.0	0.301	1461.5	484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Potential Temperature (°C)
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-0.5
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1.5
2.0
NBP0901 138
71 30.43 S 108 18.79 W
Pressure (dbar)
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100
200
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400
500
600
700
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900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
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6
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**139D**	2009/02/11	05:51	-71.3345	-109.7778	461	8	463	2	7.0	189	-6.7	986.0

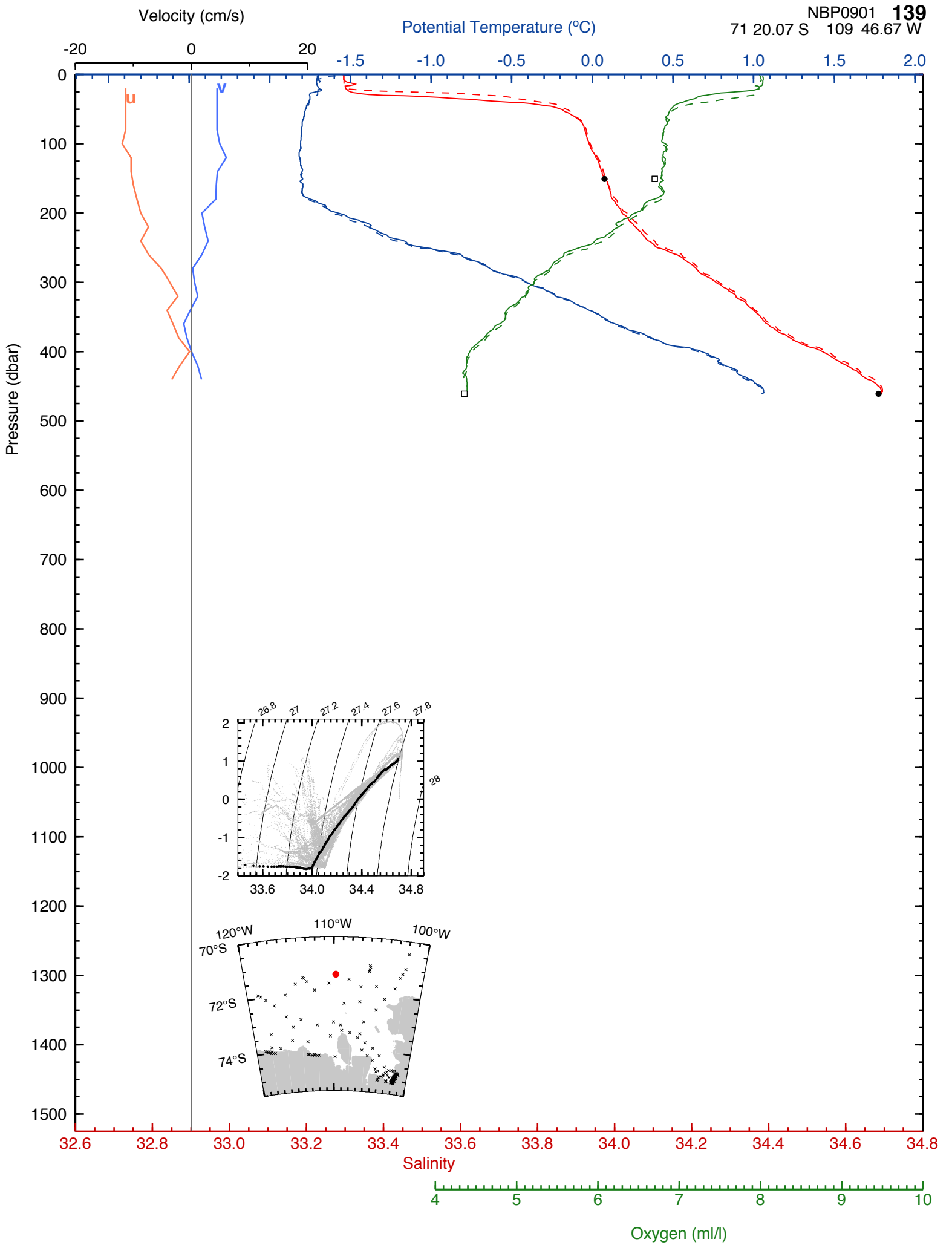
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.707	-1.707	0.120	0.118	33.298	8.03	349	93.3	26.795	1026.8	124.2	0.002	1438.9			2
25	-1.714	-1.715	0.139	0.120	33.460	7.69	335	94.4	26.927	1027.0	111.5	0.031	1439.4	0.121	291	25
50	-1.776	-1.777	0.119	0.081	33.874	6.89	300	96.8	27.265	1027.5	79.3	0.053	1440.1	0.121	291	50
75	-1.799	-1.800	0.118	0.062	33.923	6.82	297	96.9	27.305	1027.7	75.3	0.072	1440.5	0.121	291	74
100	-1.808	-1.810	0.129	0.053	33.936	6.83	297	97.1	27.316	1027.8	74.1	0.091	1440.8	0.129	292	99
125	-1.807	-1.810	0.150	0.055	33.962	6.83	297	97.2	27.337	1027.9	72.0	0.109	1441.3	0.119	299	124
150	-1.795	-1.798	0.182	0.069	33.977	6.78	295	97.2	27.349	1028.1	70.7	0.127	1441.8	0.111	293	148
175	-1.790	-1.794	0.206	0.075	33.995	6.79	295	97.3	27.364	1028.2	69.1	0.144	1442.2	0.105	294	173
200	-1.571	-1.575	0.446	0.296	34.032	6.46	281	97.3	27.388	1028.3	66.9	0.162	1443.7	0.090	283	198
225	-1.334	-1.340	0.704	0.535	34.074	6.18	269	97.3	27.415	1028.5	64.4	0.178	1445.3	0.079	287	222
250	-1.020	-1.027	1.041	0.852	34.132	5.77	251	97.3	27.451	1028.6	61.1	0.194	1447.3	0.086	287	247
275	-0.656	-0.664	1.428	1.221	34.210	5.44	236	97.3	27.499	1028.8	56.7	0.208	1449.5	0.062	277	272
300	-0.398	-0.408	1.709	1.483	34.272	5.21	226	97.3	27.538	1029.0	53.2	0.222	1451.2	0.040	277	297
325	-0.138	-0.150	1.991	1.746	34.337	5.04	219	97.3	27.579	1029.1	49.5	0.235	1452.9	0.026	294	321
350	0.074	0.061	2.225	1.961	34.385	4.86	211	97.3	27.607	1029.3	47.1	0.247	1454.4	0.040	261	346
375	0.337	0.321	2.510	2.227	34.452	4.63	201	97.3	27.646	1029.4	43.7	0.258	1456.1	0.029	249	371
400	0.694	0.676	2.892	2.591	34.553	4.42	192	97.2	27.707	1029.6	38.4	0.269	1458.2	0.008	265	395
425	0.901	0.881	3.122	2.802	34.632	4.38	190	97.2	27.757	1029.8	34.0	0.278	1459.7	0.023	299	420
450	1.069	1.047	3.312	2.973	34.692	4.39	191	97.0	27.795	1029.9	30.6	0.286	1460.9			445
461	1.073	1.050	3.324	2.977	34.692	4.39	191	97.0	27.794	1030.0	30.7	0.289	1461.1			456

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	139B	2009/02/11	06:03	-71.3342	-109.7791	461	8	463	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
151	-1.789	-1.792	33.985	27.355	6.77	294	33.974	6.70	291			3	149
461	1.070	1.048	34.692	27.795	4.39	191	34.686	4.36	189			1	455

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	139U	2009/02/11	06:14	-71.3338	-109.7798	461	8	463	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.494	-1.494	0.332	0.331	33.295	7.98	347	26.787	1026.8	125.0	0.001	1439.9	1
25	-1.703	-1.703	0.142	0.123	33.314	7.97	347	26.808	1026.9	122.8	0.031	1439.3	25
50	-1.773	-1.774	0.121	0.084	33.861	6.95	302	27.254	1027.5	80.4	0.056	1440.1	50
75	-1.799	-1.800	0.118	0.061	33.920	6.83	297	27.303	1027.7	75.5	0.075	1440.5	74
100	-1.808	-1.810	0.129	0.053	33.934	6.79	295	27.315	1027.8	74.3	0.094	1440.8	99
125	-1.808	-1.810	0.149	0.054	33.958	6.80	296	27.334	1027.9	72.3	0.112	1441.3	124
150	-1.794	-1.798	0.182	0.069	33.978	6.77	294	27.350	1028.1	70.6	0.130	1441.8	148
175	-1.789	-1.792	0.208	0.076	33.991	6.80	296	27.361	1028.2	69.5	0.147	1442.2	173
200	-1.606	-1.610	0.411	0.260	34.020	6.52	284	27.379	1028.3	67.7	0.165	1443.5	198
225	-1.364	-1.370	0.674	0.504	34.063	6.22	271	27.406	1028.5	65.1	0.181	1445.2	222
250	-1.069	-1.075	0.991	0.803	34.112	5.92	257	27.437	1028.6	62.3	0.197	1447.0	247
275	-0.664	-0.672	1.420	1.213	34.202	5.46	237	27.494	1028.8	57.2	0.212	1449.5	272
300	-0.403	-0.413	1.703	1.477	34.264	5.21	227	27.532	1029.0	53.7	0.226	1451.2	297
325	-0.152	-0.164	1.976	1.731	34.327	5.08	221	27.571	1029.1	50.3	0.239	1452.8	321
350	0.074	0.061	2.225	1.961	34.380	4.86	211	27.603	1029.3	47.5	0.251	1454.3	346
375	0.319	0.304	2.492	2.210	34.441	4.68	203	27.638	1029.4	44.4	0.263	1456.0	371
400	0.672	0.654	2.869	2.568	34.540	4.45	193	27.697	1029.6	39.3	0.273	1458.1	395
425	0.879	0.859	3.099	2.779	34.618	4.38	190	27.747	1029.8	34.8	0.282	1459.5	420
450	1.058	1.036	3.301	2.962	34.686	4.39	191	27.791	1029.9	31.0	0.291	1460.9	445
461	1.073	1.050	3.324	2.977	34.692	4.39	191	27.794	1030.0	30.7	0.294	1461.1	456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Potential Temperature (°C)
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Pressure (dbar)
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34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**140D**	2009/02/11	10:58	-71.6515	-110.5772	471	7	473	3	4.1	189	-7.2	983.9

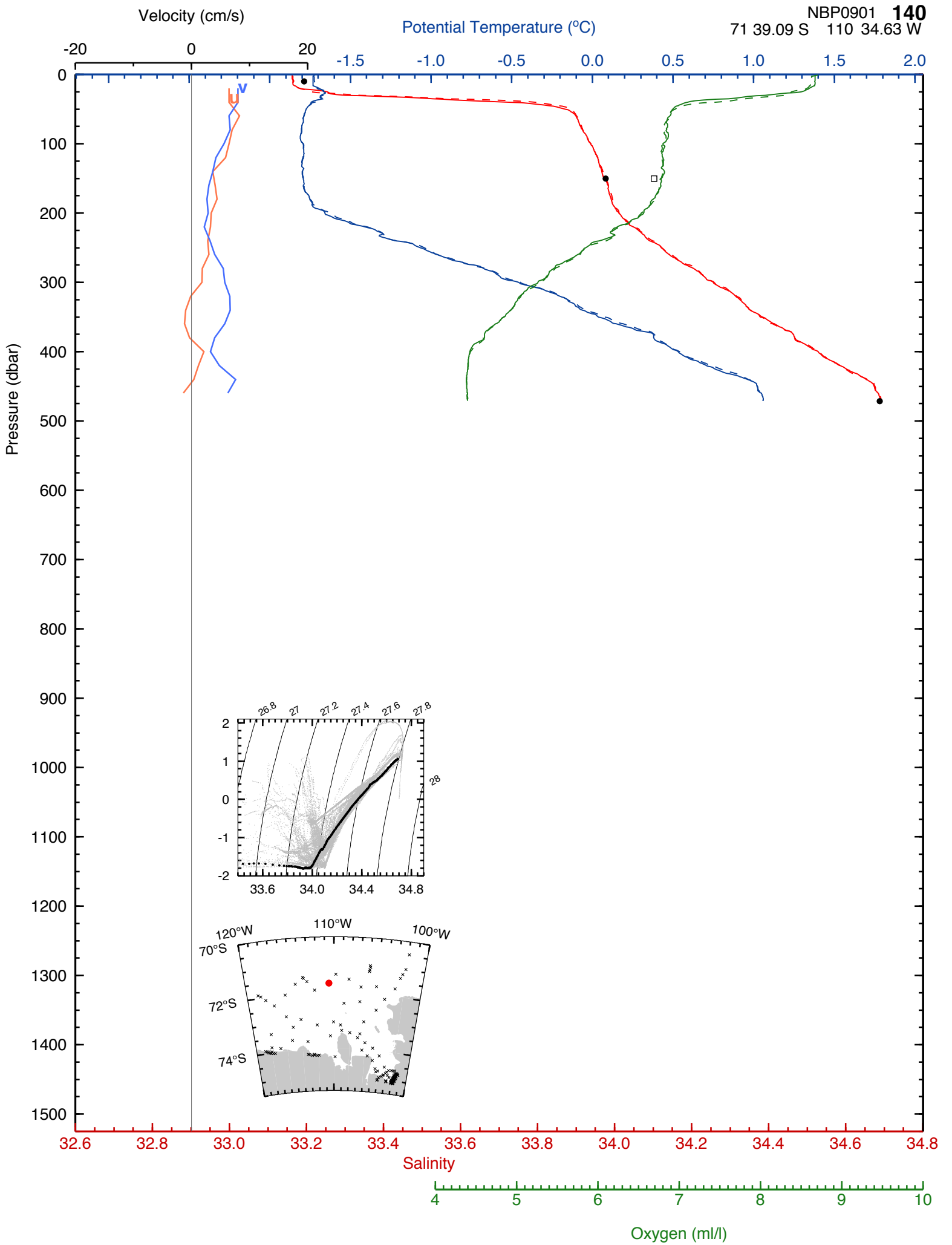
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.723	-1.723	0.095	0.094	33.163	8.67	377	86.1	26.685	1026.7	134.6	0.001	1438.6			1
25	-1.664	-1.664	0.175	0.157	33.214	8.50	370	82.3	26.726	1026.8	130.6	0.033	1439.3	0.103	39	25
50	-1.774	-1.775	0.122	0.084	33.885	6.92	301	94.4	27.274	1027.5	78.5	0.058	1440.1	0.104	45	50
75	-1.800	-1.801	0.117	0.060	33.914	6.86	298	96.7	27.298	1027.7	76.0	0.077	1440.4	0.099	48	74
100	-1.791	-1.792	0.146	0.071	33.938	6.80	296	97.0	27.317	1027.8	74.0	0.096	1440.9	0.087	49	99
125	-1.796	-1.799	0.161	0.066	33.960	6.81	296	97.1	27.336	1027.9	72.1	0.114	1441.3	0.068	53	124
150	-1.789	-1.792	0.187	0.074	33.977	6.78	295	97.2	27.349	1028.1	70.7	0.132	1441.8	0.052	49	148
175	-1.755	-1.759	0.241	0.109	33.993	6.71	292	97.2	27.361	1028.2	69.4	0.150	1442.4	0.052	57	173
200	-1.654	-1.659	0.362	0.212	34.011	6.56	285	97.2	27.373	1028.3	68.2	0.167	1443.3	0.046	50	198
225	-1.334	-1.340	0.704	0.534	34.065	6.17	268	97.3	27.408	1028.5	65.0	0.184	1445.3	0.040	54	222
250	-1.059	-1.066	1.001	0.813	34.122	5.85	254	97.3	27.444	1028.6	61.6	0.199	1447.1	0.045	40	247
275	-0.727	-0.736	1.356	1.149	34.195	5.49	239	97.3	27.491	1028.8	57.4	0.214	1449.2	0.055	26	272
300	-0.449	-0.459	1.657	1.431	34.258	5.26	229	97.2	27.529	1029.0	54.0	0.228	1451.0	0.060	18	297
325	-0.142	-0.154	1.986	1.742	34.329	5.01	218	97.3	27.573	1029.1	50.1	0.241	1452.9	0.066	359	321
350	0.051	0.038	2.202	1.938	34.379	4.84	211	97.2	27.603	1029.3	47.4	0.254	1454.2	0.065	350	346
375	0.394	0.378	2.568	2.285	34.466	4.60	200	97.2	27.654	1029.4	42.9	0.265	1456.3	0.048	352	371
400	0.549	0.532	2.746	2.445	34.531	4.42	192	97.1	27.698	1029.6	39.1	0.275	1457.5	0.039	107	395
425	0.780	0.761	3.000	2.680	34.599	4.40	191	97.1	27.738	1029.7	35.6	0.285	1459.1	0.049	14	420
450	1.043	1.021	3.286	2.947	34.676	4.39	191	97.0	27.784	1029.9	31.7	0.293	1460.8	0.073	85	445
471	1.080	1.058	3.340	2.985	34.691	4.39	191	96.9	27.793	1030.0	30.9	0.299	1461.3			466

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	140B	2009/02/11	11:12	-71.6507	-110.5773	471	7	473	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.714	-1.714	33.164	26.686	8.59	374	33.194					5	10
150	-1.790	-1.793	33.975	27.348	6.76	294	33.977	6.69	291			3	148
471	1.076	1.053	34.688	27.791	4.39	191	34.688					1	466

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	140U	2009/02/11	11:24	-71.6501	-110.5770	471	7	473	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.732	-1.732	0.086	0.086	33.163	8.70	379	26.686	1026.7	134.6	0.001	1438.5	1
25	-1.650	-1.650	0.192	0.173	33.255	8.38	364	26.758	1026.9	127.5	0.033	1439.5	25
50	-1.769	-1.770	0.126	0.088	33.872	6.95	302	27.263	1027.5	79.5	0.059	1440.1	50
75	-1.798	-1.800	0.118	0.061	33.911	6.81	296	27.296	1027.7	76.2	0.078	1440.4	74
100	-1.793	-1.795	0.144	0.069	33.938	6.80	296	27.317	1027.8	74.0	0.097	1440.9	99
125	-1.798	-1.801	0.158	0.064	33.958	6.79	295	27.334	1027.9	72.3	0.115	1441.3	124
150	-1.789	-1.792	0.188	0.075	33.976	6.77	294	27.348	1028.1	70.8	0.133	1441.8	148
175	-1.765	-1.768	0.232	0.100	33.988	6.72	292	27.358	1028.2	69.8	0.151	1442.3	173
200	-1.624	-1.628	0.393	0.242	34.012	6.54	284	27.373	1028.3	68.2	0.168	1443.4	198
225	-1.328	-1.334	0.710	0.541	34.062	6.19	269	27.405	1028.5	65.3	0.185	1445.3	222
250	-1.035	-1.042	1.025	0.837	34.123	5.84	254	27.444	1028.6	61.7	0.201	1447.2	247
275	-0.743	-0.751	1.340	1.132	34.185	5.56	242	27.483	1028.8	58.1	0.216	1449.1	272
300	-0.436	-0.447	1.669	1.443	34.256	5.27	229	27.527	1029.0	54.2	0.230	1451.0	297
325	-0.141	-0.153	1.988	1.743	34.326	5.02	218	27.570	1029.1	50.4	0.243	1452.9	321
350	0.092	0.079	2.243	1.979	34.385	4.84	210	27.605	1029.3	47.3	0.255	1454.4	346
375	0.399	0.383	2.573	2.290	34.464	4.61	200	27.652	1029.4	43.1	0.266	1456.4	371
400	0.557	0.540	2.753	2.452	34.528	4.43	193	27.695	1029.6	39.3	0.277	1457.6	395
425	0.814	0.794	3.033	2.713	34.602	4.40	191	27.739	1029.7	35.5	0.286	1459.2	420
450	1.045	1.023	3.287	2.948	34.674	4.39	191	27.782	1029.9	31.9	0.294	1460.8	445
471	1.080	1.058	3.340	2.985	34.691	4.39	191	27.793	1030.0	30.9	0.301	1461.3	466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1.5
2.0
NBP0901 140
71 39.09 S 110 34.63 W
Pressure (dbar)
0
100
200
300
400
500
600
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800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**141D**	2009/02/12	01:00	-71.8878	-112.2220	530	8	532	4	9.3	176	-3.5	981.1

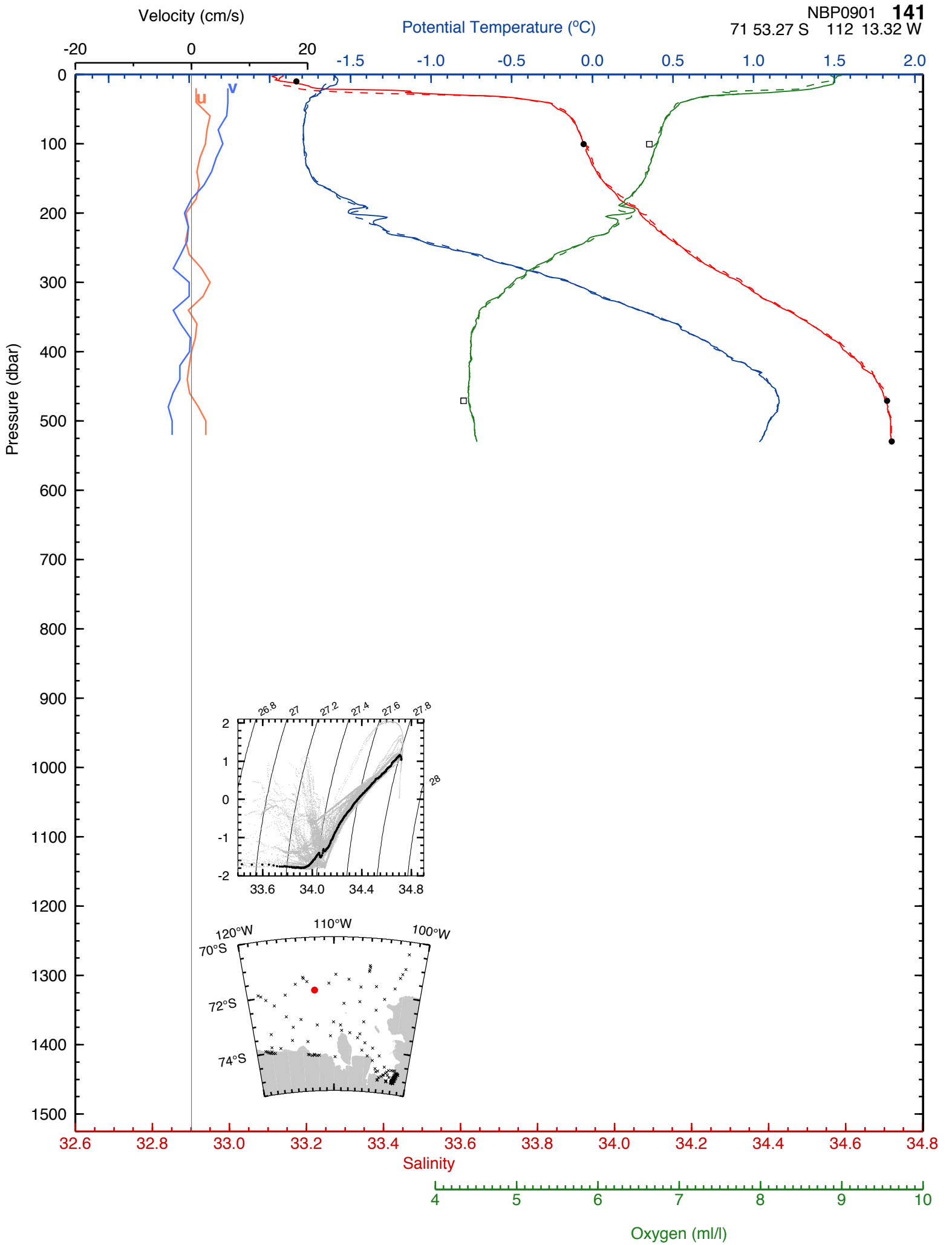
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.603	-1.603	0.213	0.212	33.139	8.86	385	79.6	26.663	1026.7	136.8	0.001	1439.1			1
25	-1.691	-1.692	0.152	0.133	33.284	8.22	358	82.4	26.783	1026.9	125.1	0.034	1439.3	0.064	7	25
50	-1.786	-1.787	0.109	0.071	33.865	6.93	301	95.1	27.258	1027.5	80.0	0.057	1440.0	0.066	17	50
75	-1.791	-1.792	0.125	0.069	33.902	6.80	295	96.2	27.288	1027.7	77.0	0.076	1440.5	0.058	30	74
100	-1.789	-1.790	0.147	0.072	33.923	6.73	293	96.8	27.305	1027.8	75.2	0.095	1440.9	0.059	24	99
125	-1.776	-1.778	0.180	0.086	33.943	6.66	289	97.0	27.321	1027.9	73.5	0.114	1441.4	0.044	18	124
150	-1.732	-1.735	0.244	0.131	33.967	6.58	286	97.2	27.339	1028.1	71.7	0.132	1442.0	0.031	22	148
175	-1.568	-1.571	0.430	0.298	34.014	6.41	279	97.2	27.373	1028.2	68.4	0.150	1443.3	0.014	70	173
200	-1.508	-1.512	0.512	0.361	34.067	6.40	278	97.2	27.415	1028.4	64.4	0.166	1444.1	0.014	203	198
225	-1.272	-1.278	0.769	0.600	34.120	6.14	267	97.2	27.450	1028.5	61.1	0.182	1445.7	0.008	226	222
250	-0.893	-0.901	1.170	0.982	34.179	5.67	247	97.2	27.484	1028.7	58.0	0.197	1448.0	0.015	220	247
275	-0.499	-0.508	1.587	1.380	34.248	5.26	229	97.2	27.524	1028.8	54.5	0.211	1450.3	0.029	168	272
300	-0.131	-0.142	1.979	1.753	34.333	4.96	215	97.3	27.575	1029.0	50.0	0.224	1452.5	0.033	106	297
325	0.109	0.096	2.241	1.996	34.394	4.69	204	97.2	27.612	1029.2	46.7	0.236	1454.1	0.021	107	321
350	0.417	0.403	2.573	2.310	34.480	4.53	197	97.1	27.664	1029.3	42.0	0.247	1456.0	0.028	179	346
375	0.629	0.613	2.808	2.526	34.553	4.44	193	97.0	27.711	1029.5	37.9	0.257	1457.5	0.013	129	371
400	0.827	0.809	3.028	2.727	34.608	4.43	193	97.0	27.742	1029.6	35.2	0.266	1458.9	0.004	163	395
425	1.006	0.986	3.228	2.908	34.653	4.42	192	97.1	27.767	1029.8	33.1	0.275	1460.2	0.020	191	420
450	1.135	1.113	3.378	3.039	34.693	4.41	192	97.1	27.791	1029.9	31.1	0.283	1461.2	0.024	196	445
475	1.179	1.155	3.442	3.084	34.708	4.41	192	97.0	27.800	1030.0	30.4	0.290	1461.8	0.037	175	469
500	1.119	1.094	3.402	3.025	34.718	4.47	194	97.1	27.813	1030.2	29.2	0.298	1462.0	0.041	149	494
530	1.062	1.036	3.367	2.968	34.720	4.51	196	97.1	27.818	1030.3	28.7	0.306	1462.2			524

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	141B	2009/02/12	01:15	-71.8874	-112.2248	529	8	532	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.627	-1.627	33.155	26.677	8.80	383	33.173					16	10
100	-1.787	-1.789	33.923	27.305	6.70	291	33.919	6.63	288			10	99
471	1.179	1.155	34.705	27.798	4.41	192	34.707	4.35	189			5	465
529	1.071	1.045	34.720	27.817	4.51	196	34.719					1	523

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	141U	2009/02/12	01:30	-71.8870	-112.2279	529	8	532	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.603	-1.603	0.213	0.212	33.125	9.00	392	26.652	1026.7	137.8	0.001	1439.1	1
25	-1.709	-1.709	0.145	0.126	33.471	7.53	327	26.936	1027.1	110.7	0.033	1439.5	25
50	-1.775	-1.776	0.120	0.082	33.854	6.93	301	27.248	1027.5	80.9	0.056	1440.1	50
75	-1.792	-1.794	0.124	0.067	33.902	6.78	295	27.288	1027.7	77.0	0.075	1440.5	74
100	-1.789	-1.791	0.147	0.072	33.920	6.72	292	27.303	1027.8	75.4	0.094	1440.9	99
125	-1.777	-1.779	0.179	0.085	33.938	6.65	289	27.317	1027.9	73.9	0.113	1441.4	124
150	-1.722	-1.725	0.254	0.141	33.965	6.58	286	27.337	1028.1	71.9	0.131	1442.1	148
175	-1.582	-1.586	0.415	0.283	34.007	6.42	279	27.367	1028.2	68.9	0.149	1443.2	173
200	-1.494	-1.499	0.525	0.375	34.065	6.38	277	27.413	1028.4	64.6	0.165	1444.1	198
225	-1.281	-1.287	0.760	0.590	34.112	6.17	268	27.444	1028.5	61.6	0.181	1445.6	222
250	-0.863	-0.870	1.201	1.012	34.176	5.69	247	27.481	1028.7	58.3	0.196	1448.1	247
275	-0.501	-0.510	1.585	1.377	34.240	5.32	231	27.517	1028.8	55.1	0.210	1450.3	272
300	-0.133	-0.144	1.977	1.751	34.326	4.99	217	27.570	1029.0	50.4	0.224	1452.5	297
325	0.129	0.116	2.261	2.016	34.392	4.74	206	27.609	1029.2	46.9	0.236	1454.2	321
350	0.428	0.413	2.584	2.320	34.478	4.53	197	27.662	1029.3	42.3	0.247	1456.1	346
375	0.628	0.612	2.807	2.524	34.546	4.45	193	27.705	1029.5	38.4	0.257	1457.5	371
400	0.821	0.803	3.021	2.720	34.601	4.43	193	27.738	1029.6	35.6	0.266	1458.9	395
425	1.011	0.991	3.233	2.913	34.646	4.42	192	27.762	1029.8	33.6	0.275	1460.2	420
450	1.135	1.113	3.378	3.039	34.688	4.41	192	27.787	1029.9	31.5	0.283	1461.2	445
475	1.173	1.149	3.436	3.078	34.707	4.42	192	27.800	1030.0	30.4	0.291	1461.8	469
500	1.122	1.098	3.405	3.028	34.716	4.47	194	27.811	1030.2	29.4	0.298	1462.0	494
530	1.062	1.036	3.367	2.968	34.720	4.51	196	27.818	1030.3	28.7	0.307	1462.2	524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NBP0901 141
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300
400
500
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120°W
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32.6
32.8
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**142D**	2009/02/12	11:26	-71.5678	-113.0306	598	8	599	3	8.6	173	-3.4	983.3

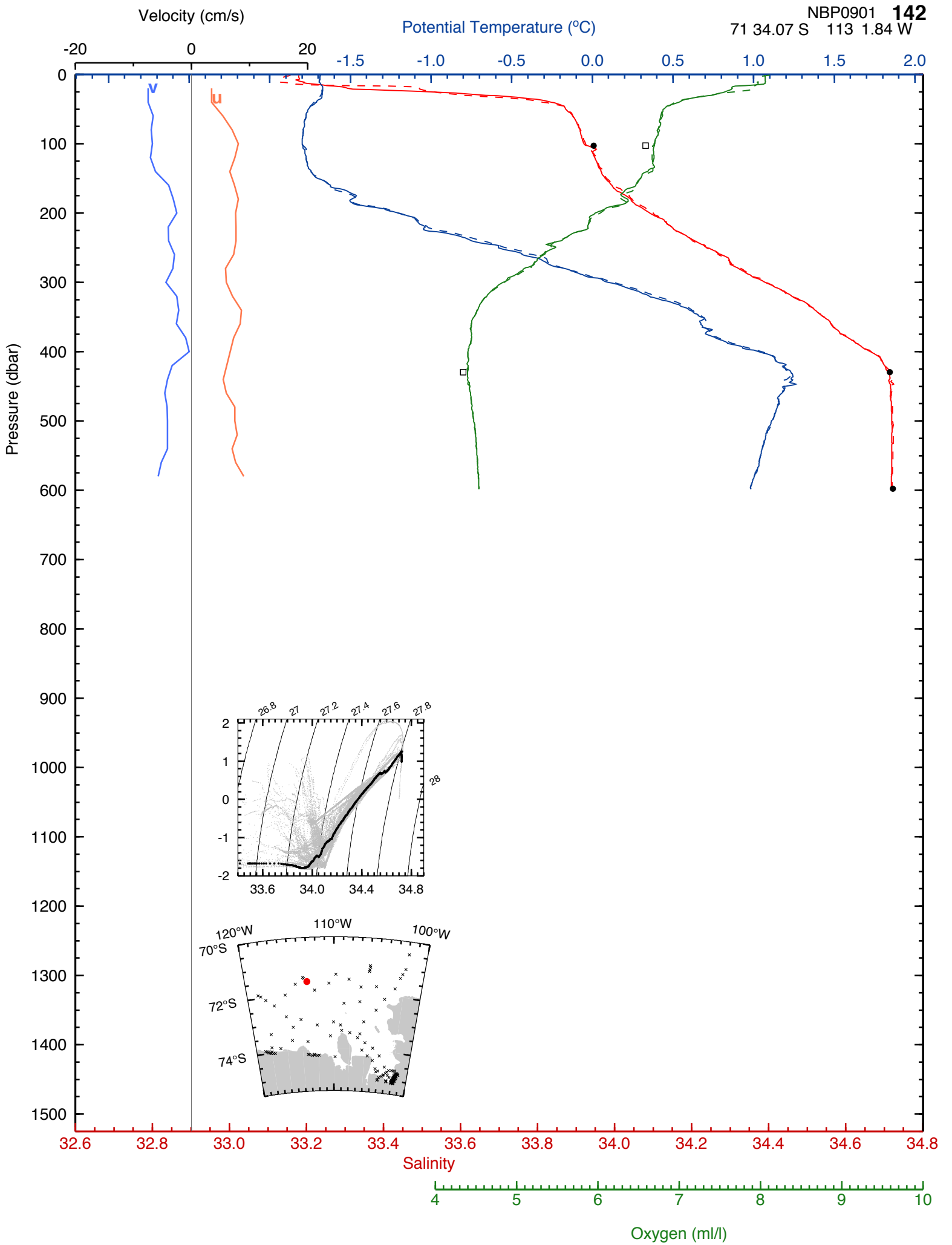
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.684	-1.684	0.134	0.133	33.159	8.05	350	90.8	26.681	1026.7	135.0	0.001	1438.8			1
25	-1.673	-1.674	0.184	0.165	33.530	7.56	329	88.3	26.983	1027.1	106.2	0.032	1439.7	0.083	155	25
50	-1.761	-1.762	0.135	0.097	33.876	6.81	296	91.5	27.266	1027.5	79.3	0.054	1440.2	0.084	148	50
75	-1.784	-1.786	0.132	0.076	33.907	6.76	294	96.0	27.292	1027.7	76.6	0.073	1440.5	0.094	136	74
100	-1.797	-1.798	0.139	0.064	33.925	6.70	291	96.8	27.307	1027.8	75.0	0.092	1440.9	0.105	130	99
125	-1.768	-1.771	0.188	0.094	33.956	6.68	290	96.8	27.331	1027.9	72.6	0.111	1441.5	0.101	133	124
150	-1.699	-1.702	0.278	0.165	33.979	6.52	284	97.2	27.348	1028.1	70.8	0.129	1442.2	0.088	127	148
175	-1.460	-1.464	0.539	0.407	34.038	6.29	273	97.3	27.389	1028.2	66.9	0.146	1443.8	0.086	113	173
200	-1.197	-1.202	0.824	0.674	34.100	5.97	259	97.3	27.431	1028.4	63.0	0.162	1445.6	0.081	108	198
225	-1.028	-1.034	1.015	0.846	34.156	5.82	253	97.2	27.470	1028.5	59.3	0.177	1446.9	0.087	117	222
250	-0.574	-0.582	1.493	1.305	34.239	5.47	238	97.2	27.520	1028.7	54.9	0.192	1449.5	0.084	115	247
275	-0.250	-0.260	1.839	1.632	34.307	5.21	226	97.2	27.560	1028.9	51.3	0.205	1451.5	0.072	116	272
300	0.109	0.097	2.222	1.996	34.391	4.83	210	97.2	27.610	1029.0	46.9	0.217	1453.7	0.073	125	297
325	0.438	0.424	2.575	2.330	34.477	4.59	199	97.2	27.661	1029.2	42.4	0.228	1455.7	0.076	109	321
350	0.693	0.678	2.853	2.590	34.545	4.47	194	97.2	27.700	1029.4	38.9	0.238	1457.4	0.089	105	346
375	0.723	0.707	2.904	2.622	34.591	4.45	193	97.0	27.736	1029.5	35.7	0.248	1458.0	0.081	102	371
400	1.049	1.030	3.254	2.953	34.667	4.40	191	97.0	27.776	1029.7	32.3	0.256	1460.0	0.069	94	395
425	1.225	1.204	3.450	3.130	34.711	4.39	191	97.1	27.799	1029.8	30.4	0.264	1461.2	0.069	118	420
450	1.210	1.188	3.455	3.116	34.714	4.42	192	97.3	27.803	1029.9	30.1	0.271	1461.6	0.071	127	445
475	1.184	1.160	3.448	3.090	34.722	4.45	193	97.2	27.811	1030.0	29.4	0.279	1461.9	0.081	124	469
500	1.135	1.110	3.418	3.041	34.722	4.47	194	97.2	27.815	1030.2	29.0	0.286	1462.1	0.085	119	494
550	1.070	1.043	3.390	2.976	34.722	4.51	196	97.2	27.820	1030.4	28.6	0.301	1462.6	0.083	121	544
598	1.012	0.983	3.368	2.918	34.721	4.53	197	97.1	27.822	1030.6	28.4	0.314	1463.1			591

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	142B	2009/02/12	11:44	-71.5680	-113.0303	598	8	599	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
103	-1.794	-1.796	33.927	27.309	6.68	291	33.946	6.59	286			5	102
429	1.249	1.228	34.713	27.799	4.39	191	34.714	4.34	189			3	424
598	1.008	0.979	34.720	27.822	4.54	197	34.723					1	590

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	142U	2009/02/12	11:59	-71.5681	-113.0307	598	8	599	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.690	-1.690	0.129	0.128	33.180	8.11	353	26.698	1026.7	133.4	0.001	1438.8	1
25	-1.676	-1.676	0.181	0.162	33.523	7.67	334	26.977	1027.1	106.8	0.032	1439.7	25
50	-1.758	-1.759	0.137	0.100	33.873	6.81	296	27.264	1027.5	79.5	0.054	1440.2	50
75	-1.786	-1.788	0.130	0.073	33.906	6.75	293	27.291	1027.7	76.7	0.073	1440.5	74
100	-1.797	-1.799	0.139	0.064	33.921	6.69	291	27.303	1027.8	75.4	0.092	1440.9	99
125	-1.770	-1.772	0.186	0.092	33.953	6.67	290	27.329	1027.9	72.8	0.111	1441.4	124
150	-1.688	-1.691	0.289	0.176	33.976	6.52	284	27.346	1028.1	71.1	0.129	1442.3	148
175	-1.480	-1.484	0.519	0.387	34.029	6.31	274	27.383	1028.2	67.5	0.146	1443.8	173
200	-1.201	-1.206	0.820	0.670	34.092	6.03	262	27.425	1028.4	63.6	0.162	1445.6	198
225	-0.941	-0.948	1.102	0.933	34.159	5.81	253	27.470	1028.5	59.4	0.178	1447.3	222
250	-0.525	-0.533	1.542	1.353	34.241	5.43	236	27.519	1028.7	55.0	0.192	1449.8	247
275	-0.237	-0.246	1.853	1.646	34.303	5.20	226	27.556	1028.9	51.6	0.205	1451.6	272
300	0.142	0.131	2.255	2.030	34.391	4.85	211	27.608	1029.0	47.1	0.218	1453.9	297
325	0.480	0.466	2.617	2.372	34.481	4.59	199	27.661	1029.2	42.4	0.229	1455.9	321
350	0.701	0.685	2.861	2.597	34.544	4.48	195	27.699	1029.4	39.1	0.239	1457.4	346
375	0.739	0.722	2.920	2.638	34.590	4.44	193	27.734	1029.5	35.9	0.248	1458.1	371
400	1.068	1.048	3.272	2.971	34.665	4.40	191	27.773	1029.7	32.6	0.257	1460.1	395
425	1.218	1.197	3.443	3.123	34.705	4.41	191	27.795	1029.8	30.8	0.265	1461.2	420
450	1.212	1.190	3.457	3.118	34.717	4.42	192	27.805	1029.9	29.9	0.272	1461.6	445
475	1.176	1.153	3.440	3.082	34.719	4.45	193	27.809	1030.0	29.5	0.280	1461.8	469
500	1.136	1.112	3.419	3.042	34.720	4.47	194	27.813	1030.2	29.2	0.287	1462.1	494
550	1.069	1.042	3.390	2.976	34.719	4.51	196	27.817	1030.4	28.8	0.302	1462.6	544
598	1.012	0.983	3.368	2.918	34.721	4.53	197	27.822	1030.6	28.4	0.315	1463.1	591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1.5
2.0
NBP0901 142
71 34.07 S 113 1.84 W
Pressure (dbar)
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100
200
300
400
500
600
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900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
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0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**143D**	2009/02/12	15:39	-71.4546	-113.4202	633	7	633	5	7.6	178	-2.8	984.3

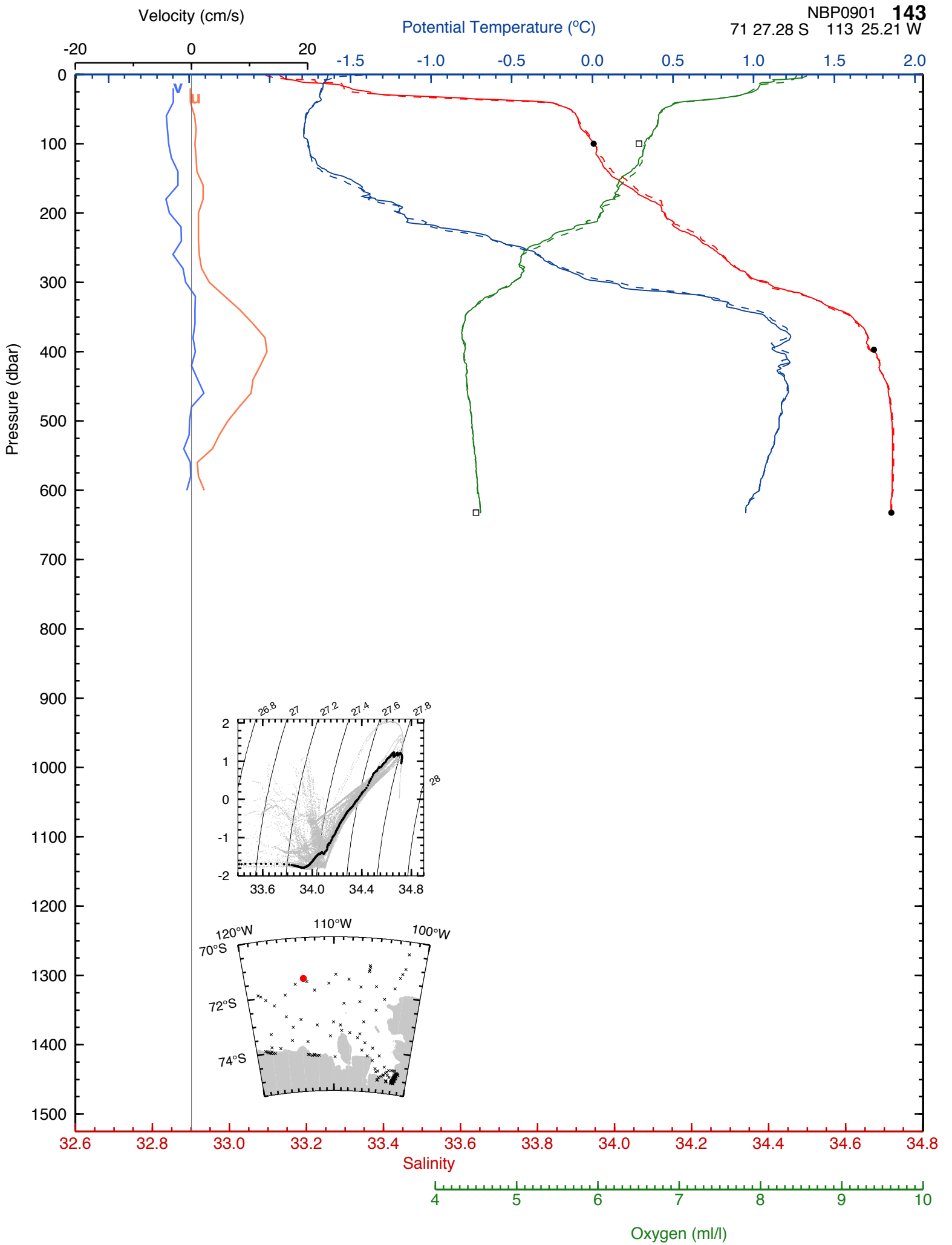
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.638	-1.638	0.176	0.175	33.093	8.57	373	82.7	26.627	1026.6	140.2	0.001	1438.9			1
25	-1.681	-1.681	0.164	0.145	33.318	7.91	344	88.5	26.811	1026.9	122.6	0.032	1439.4	0.031	184	25
50	-1.752	-1.753	0.144	0.106	33.883	6.80	296	92.1	27.272	1027.5	78.7	0.057	1440.2	0.037	179	50
75	-1.784	-1.786	0.132	0.076	33.914	6.72	292	96.0	27.298	1027.7	76.0	0.076	1440.5	0.042	170	74
100	-1.760	-1.762	0.178	0.102	33.947	6.58	286	96.8	27.324	1027.8	73.4	0.094	1441.1	0.039	171	99
125	-1.711	-1.714	0.247	0.152	33.973	6.50	283	97.0	27.344	1027.9	71.4	0.113	1441.8	0.034	166	124
150	-1.512	-1.515	0.467	0.355	34.026	6.28	273	97.1	27.381	1028.1	67.8	0.130	1443.2	0.027	150	148
175	-1.408	-1.412	0.593	0.462	34.085	6.26	272	97.2	27.426	1028.3	63.5	0.147	1444.2	0.042	150	173
200	-1.195	-1.200	0.828	0.678	34.131	6.04	262	97.2	27.456	1028.4	60.7	0.162	1445.7	0.041	162	198
225	-0.810	-0.817	1.235	1.066	34.195	5.60	243	97.2	27.494	1028.6	57.2	0.177	1448.0	0.022	146	222
250	-0.420	-0.429	1.648	1.460	34.263	5.15	224	97.2	27.532	1028.7	53.8	0.191	1450.3	0.026	150	247
275	-0.230	-0.239	1.860	1.653	34.308	5.04	219	97.1	27.559	1028.9	51.4	0.204	1451.6	0.028	142	272
300	0.108	0.096	2.221	1.995	34.389	4.95	215	97.2	27.608	1029.0	47.0	0.216	1453.7	0.031	112	297
325	0.763	0.748	2.902	2.658	34.521	4.58	199	97.2	27.676	1029.2	41.2	0.227	1457.3	0.059	83	321
350	1.092	1.075	3.256	2.992	34.614	4.37	190	97.2	27.730	1029.4	36.5	0.237	1459.3	0.091	86	346
375	1.241	1.222	3.426	3.143	34.655	4.33	188	97.1	27.753	1029.5	34.6	0.246	1460.4	0.117	88	371
400	1.158	1.139	3.362	3.061	34.667	4.36	189	97.1	27.768	1029.7	33.1	0.254	1460.5	0.129	87	395
425	1.185	1.164	3.409	3.089	34.687	4.39	191	97.1	27.783	1029.8	31.8	0.263	1461.0	0.119	90	420
450	1.235	1.213	3.480	3.141	34.711	4.39	191	97.2	27.799	1029.9	30.5	0.270	1461.7	0.106	83	445
475	1.194	1.171	3.458	3.100	34.718	4.43	192	97.2	27.807	1030.0	29.7	0.278	1461.9	0.094	84	469
500	1.183	1.158	3.466	3.090	34.723	4.45	193	97.3	27.812	1030.2	29.3	0.285	1462.3	0.069	92	494
550	1.119	1.092	3.439	3.025	34.724	4.49	195	97.3	27.818	1030.4	28.8	0.300	1462.8	0.033	108	544
600	1.063	1.034	3.422	2.970	34.723	4.52	196	97.3	27.821	1030.6	28.6	0.314	1463.4	0.019	105	593
633	0.981	0.950	3.364	2.888	34.718	4.55	198	97.1	27.822	1030.8	28.4	0.324	1463.6			625

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	143B	2009/02/12	15:56	-71.4543	-113.4204	633	7	633	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
13	-1.656	-1.656	33.196	26.711	8.24	358						9	13
100	-1.759	-1.761	33.947	27.324	6.56	285	33.945	6.50	283			7	99
200	-1.220	-1.225	34.127	27.454	6.07	264						5	197
397	1.152	1.133	34.663	27.766	4.36	190	34.673				-0.066	3	393
633	0.981	0.950	34.718	27.823	4.55	198	34.718	4.50	196			1	625

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	143U	2009/02/12	16:16	-71.4543	-113.4209	633	7	633	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.424	-1.424	0.392	0.391	33.131	8.44	367	26.652	1026.7	137.8	0.001	1440.0	1
25	-1.687	-1.687	0.161	0.142	33.365	7.86	342	26.849	1027.0	119.0	0.032	1439.4	25
50	-1.756	-1.757	0.140	0.102	33.884	6.81	296	27.273	1027.5	78.6	0.056	1440.2	50
75	-1.785	-1.786	0.132	0.075	33.910	6.73	292	27.295	1027.7	76.3	0.075	1440.5	74
100	-1.758	-1.760	0.179	0.104	33.947	6.56	285	27.324	1027.8	73.4	0.094	1441.1	99
125	-1.736	-1.738	0.221	0.127	33.964	6.54	284	27.337	1027.9	72.0	0.112	1441.6	124
150	-1.577	-1.581	0.401	0.288	34.003	6.37	277	27.364	1028.1	69.4	0.130	1442.8	148
175	-1.382	-1.387	0.618	0.486	34.068	6.21	270	27.412	1028.3	64.9	0.147	1444.3	173
200	-1.185	-1.190	0.838	0.687	34.130	6.04	262	27.455	1028.4	60.8	0.162	1445.7	198
225	-0.908	-0.915	1.136	0.967	34.171	5.73	249	27.478	1028.6	58.6	0.177	1447.5	222
250	-0.465	-0.473	1.602	1.414	34.250	5.25	228	27.524	1028.7	54.6	0.191	1450.0	247
275	-0.224	-0.233	1.866	1.659	34.304	5.04	219	27.556	1028.9	51.6	0.205	1451.7	272
300	0.167	0.155	2.280	2.054	34.398	4.95	215	27.612	1029.0	46.7	0.217	1454.0	297
325	0.812	0.798	2.952	2.707	34.523	4.60	200	27.675	1029.2	41.3	0.228	1457.5	321
350	1.113	1.096	3.277	3.013	34.617	4.37	190	27.731	1029.4	36.5	0.238	1459.4	346
375	1.228	1.210	3.413	3.130	34.655	4.33	188	27.754	1029.5	34.5	0.247	1460.3	371
400	1.215	1.196	3.420	3.119	34.674	4.35	189	27.770	1029.7	33.0	0.255	1460.7	395
425	1.173	1.153	3.398	3.078	34.688	4.38	190	27.784	1029.8	31.7	0.263	1461.0	420
450	1.231	1.209	3.476	3.137	34.709	4.39	191	27.797	1029.9	30.6	0.271	1461.7	445
475	1.197	1.173	3.460	3.103	34.715	4.43	192	27.805	1030.0	30.0	0.279	1461.9	469
500	1.182	1.157	3.465	3.088	34.720	4.45	193	27.810	1030.2	29.6	0.286	1462.3	494
550	1.121	1.094	3.441	3.027	34.722	4.49	195	27.815	1030.4	29.1	0.301	1462.8	544
600	1.063	1.033	3.421	2.969	34.720	4.52	196	27.819	1030.6	28.8	0.315	1463.4	593
633	0.981	0.950	3.364	2.888	34.718	4.55	198	27.822	1030.8	28.4	0.325	1463.6	625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v
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Potential Temperature (°C)
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Pressure (dbar)
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300
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1200
1300
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120°W
110°W
100°W
70°S
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32.6
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34.0
34.2
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34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**144D**	2009/02/12	18:56	-71.4088	-113.4991	1079	8	1074	5	8.4	194	-3.6	985.1

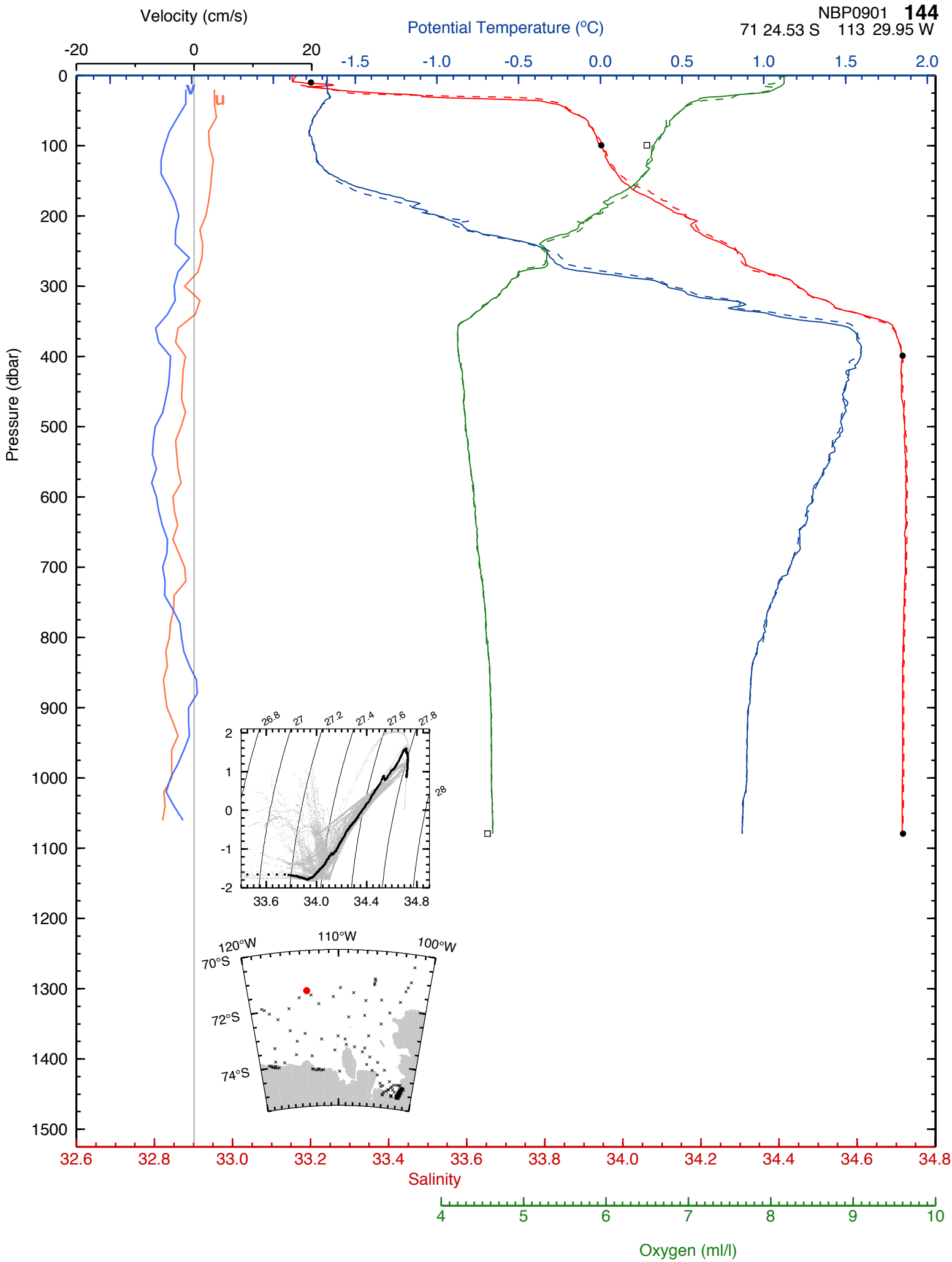
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.671	-1.671	0.147	0.147	33.164	8.15	355	89.7	26.685	1026.7	134.6	0.001	1438.8			1
25	-1.670	-1.670	0.174	0.155	33.301	7.85	342	87.9	26.797	1026.9	123.9	0.033	1439.4	0.038	112	25
50	-1.727	-1.728	0.168	0.131	33.869	6.91	300	95.2	27.259	1027.5	79.9	0.056	1440.3	0.042	119	50
75	-1.774	-1.776	0.143	0.087	33.922	6.72	292	96.5	27.304	1027.7	75.5	0.075	1440.6	0.048	143	74
100	-1.750	-1.752	0.187	0.112	33.948	6.58	286	96.7	27.324	1027.8	73.4	0.093	1441.1	0.056	152	99
125	-1.723	-1.726	0.234	0.140	33.969	6.52	283	97.1	27.341	1027.9	71.7	0.112	1441.7	0.065	150	124
150	-1.569	-1.573	0.409	0.296	34.014	6.39	278	97.1	27.373	1028.1	68.5	0.129	1442.9	0.059	150	148
175	-1.208	-1.213	0.794	0.662	34.097	6.04	263	97.2	27.429	1028.3	63.3	0.146	1445.1	0.044	144	173
200	-0.988	-0.994	1.037	0.886	34.162	5.83	253	97.2	27.474	1028.4	59.1	0.161	1446.7	0.034	142	198
225	-0.722	-0.729	1.324	1.155	34.208	5.53	240	97.2	27.501	1028.6	56.6	0.175	1448.4	0.033	161	222
250	-0.319	-0.327	1.751	1.563	34.293	5.29	230	97.2	27.552	1028.7	52.0	0.189	1450.8	0.028	143	247
275	-0.198	-0.208	1.892	1.685	34.322	5.15	224	97.3	27.569	1028.9	50.5	0.202	1451.8	0.023	148	272
300	0.422	0.410	2.538	2.313	34.447	4.80	209	97.2	27.637	1029.1	44.6	0.213	1455.2	0.036	199	297
325	0.898	0.883	3.038	2.794	34.535	4.54	197	97.2	27.679	1029.2	41.1	0.224	1457.9	0.035	164	321
350	1.321	1.303	3.487	3.224	34.660	4.27	185	97.2	27.752	1029.4	34.7	0.234	1460.4	0.052	185	346
375	1.588	1.568	3.775	3.493	34.703	4.21	183	97.3	27.767	1029.5	33.6	0.242	1462.0	0.069	205	371
400	1.613	1.592	3.820	3.519	34.716	4.21	183	97.3	27.776	1029.7	32.9	0.250	1462.5	0.049	202	395
425	1.530	1.508	3.756	3.436	34.715	4.26	185	97.3	27.780	1029.8	32.5	0.259	1462.6	0.045	205	420
450	1.515	1.491	3.760	3.421	34.717	4.28	186	97.3	27.784	1029.9	32.3	0.267	1462.9	0.048	205	445
475	1.524	1.499	3.788	3.430	34.722	4.28	186	97.3	27.788	1030.0	32.0	0.275	1463.4	0.053	200	469
500	1.503	1.477	3.786	3.410	34.724	4.29	187	97.3	27.791	1030.1	31.8	0.283	1463.7	0.066	198	494
550	1.429	1.400	3.750	3.336	34.728	4.34	189	97.3	27.799	1030.4	31.1	0.298	1464.2	0.076	202	544
600	1.322	1.291	3.681	3.229	34.728	4.40	191	97.3	27.807	1030.6	30.3	0.314	1464.6	0.074	205	593
650	1.250	1.216	3.646	3.157	34.726	4.43	193	97.3	27.811	1030.9	30.1	0.329	1465.1	0.061	209	642
700	1.193	1.157	3.627	3.100	34.726	4.47	194	97.4	27.815	1031.1	29.7	0.344	1465.6	0.054	202	692
750	1.087	1.049	3.558	2.994	34.723	4.52	196	97.3	27.820	1031.3	29.2	0.359	1466.0	0.060	215	741
800	1.033	0.992	3.542	2.940	34.721	4.55	198	97.3	27.822	1031.6	29.0	0.373	1466.6	0.047	241	790
850	0.969	0.925	3.515	2.875	34.720	4.59	199	97.3	27.825	1031.8	28.6	0.387	1467.1	0.046	260	839
900	0.952	0.906	3.536	2.858	34.719	4.60	200	97.3	27.826	1032.0	28.6	0.402	1467.8	0.048	268	889
950	0.944	0.895	3.566	2.850	34.719	4.61	200	97.3	27.827	1032.3	28.7	0.416	1468.6	0.029	254	938
1000	0.947	0.895	3.606	2.853	34.719	4.61	200	97.3	27.827	1032.5	28.8	0.430	1469.5	0.050	231	987
1079	0.923	0.866	3.642	2.829	34.717	4.62	201	97.3	27.827	1032.9	28.9	0.453	1470.7			1065

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	144B	2009/02/12	19:23	-71.4088	-113.4986	1079	8	1074	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.672	-1.672	33.155	26.678	8.09	352	33.201					10	10
100	-1.753	-1.755	33.949	27.325	6.56	285	33.945	6.50	282			7	98
200	-1.019	-1.024	34.150	27.466	5.88	255						5	198
399	1.597	1.576	34.715	27.776	4.22	183	34.717					3	394
1079	0.923	0.866	34.717	27.827	4.62	201	34.717	4.56	198			1	1065

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	144U	2009/02/12	19:48	-71.4088	-113.4973	1079	8	1074	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.672	-1.672	0.145	0.145	33.154	8.19	356	26.677	1026.7	135.4	0.001	1438.8	1
25	-1.664	-1.665	0.184	0.165	33.375	7.79	339	26.856	1027.0	118.2	0.033	1439.5	25
50	-1.723	-1.724	0.172	0.134	33.861	6.90	300	27.253	1027.5	80.5	0.056	1440.3	50
75	-1.777	-1.779	0.139	0.083	33.920	6.72	292	27.303	1027.7	75.6	0.075	1440.5	74
100	-1.751	-1.753	0.186	0.111	33.948	6.56	285	27.325	1027.8	73.3	0.094	1441.1	99
125	-1.721	-1.723	0.236	0.142	33.964	6.49	282	27.337	1027.9	72.1	0.112	1441.7	124
150	-1.612	-1.615	0.366	0.253	33.997	6.42	279	27.361	1028.1	69.7	0.130	1442.7	148
175	-1.331	-1.335	0.670	0.539	34.071	6.19	269	27.412	1028.3	64.8	0.147	1444.5	173
200	-0.986	-0.992	1.038	0.888	34.158	5.83	253	27.471	1028.4	59.4	0.162	1446.7	198
225	-0.727	-0.734	1.319	1.149	34.200	5.60	244	27.494	1028.6	57.2	0.177	1448.3	222
250	-0.303	-0.311	1.767	1.579	34.292	5.25	228	27.550	1028.7	52.2	0.190	1450.9	247
275	-0.052	-0.062	2.039	1.832	34.340	5.01	218	27.577	1028.9	49.8	0.203	1452.5	272
300	0.455	0.443	2.572	2.346	34.449	4.80	209	27.637	1029.1	44.6	0.215	1455.4	297
325	0.869	0.854	3.009	2.764	34.535	4.56	198	27.681	1029.2	40.9	0.226	1457.8	321
350	1.456	1.439	3.623	3.360	34.670	4.26	185	27.750	1029.4	35.0	0.235	1461.0	346
375	1.604	1.585	3.792	3.509	34.705	4.20	182	27.767	1029.5	33.6	0.244	1462.1	371
400	1.585	1.564	3.792	3.491	34.715	4.22	184	27.777	1029.7	32.8	0.252	1462.4	395
425	1.542	1.519	3.767	3.447	34.713	4.25	185	27.779	1029.8	32.7	0.260	1462.6	420
450	1.510	1.486	3.755	3.416	34.714	4.28	186	27.781	1029.9	32.5	0.268	1462.9	445
475	1.522	1.497	3.785	3.428	34.720	4.28	186	27.786	1030.0	32.2	0.276	1463.4	469
500	1.498	1.472	3.781	3.404	34.721	4.30	187	27.789	1030.1	32.0	0.284	1463.7	494
550	1.420	1.392	3.741	3.327	34.725	4.34	189	27.797	1030.4	31.2	0.300	1464.2	544
600	1.327	1.296	3.685	3.234	34.725	4.39	191	27.804	1030.6	30.6	0.316	1464.6	593
650	1.245	1.212	3.641	3.151	34.723	4.43	193	27.808	1030.9	30.3	0.331	1465.0	642
700	1.196	1.160	3.629	3.102	34.724	4.46	194	27.813	1031.1	29.9	0.346	1465.6	692
750	1.093	1.054	3.564	2.999	34.720	4.52	196	27.817	1031.3	29.4	0.361	1466.0	741
800	1.039	0.998	3.548	2.945	34.719	4.55	198	27.819	1031.6	29.2	0.375	1466.6	790
850	0.966	0.923	3.512	2.872	34.717	4.59	199	27.823	1031.8	28.9	0.390	1467.1	839
900	0.951	0.905	3.535	2.857	34.716	4.60	200	27.824	1032.0	28.9	0.404	1467.8	889
950	0.946	0.897	3.567	2.852	34.716	4.61	200	27.824	1032.3	28.9	0.419	1468.6	938
1000	0.945	0.893	3.604	2.851	34.716	4.61	200	27.824	1032.5	29.0	0.433	1469.5	987
1079	0.923	0.866	3.642	2.829	34.717	4.62	201	27.827	1032.9	28.9	0.456	1470.7	1065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Potential Temperature (°C)
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Pressure (dbar)
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100
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1400
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27.2
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27.6
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28
2
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-1
-2
33.6
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**145D**	2009/02/13	00:00	-71.6451	-114.3914	455	9	459	3	7.3	183	-3.5	986.3

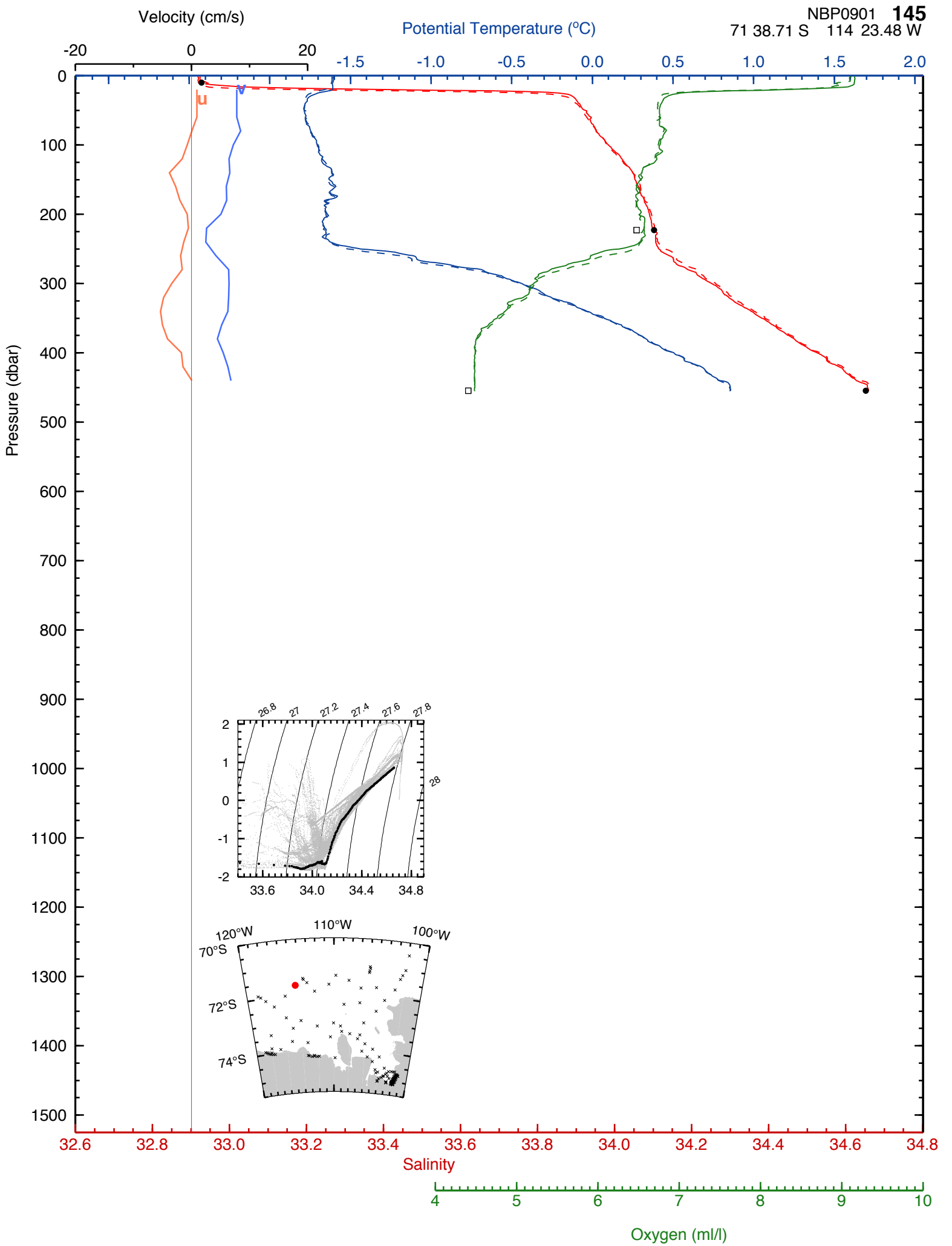
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.603	-1.603	0.201	0.200	32.918	9.16	399	78.3	26.484	1026.5	153.7	0.002	1438.8			1
25	-1.703	-1.703	0.168	0.150	33.780	7.01	305	79.8	27.186	1027.3	86.9	0.036	1439.9	0.079	7	25
50	-1.787	-1.788	0.111	0.073	33.916	6.76	294	96.0	27.300	1027.5	76.0	0.055	1440.1	0.079	7	50
75	-1.752	-1.753	0.167	0.110	33.947	6.80	296	96.6	27.324	1027.7	73.6	0.074	1440.7	0.083	2	74
100	-1.704	-1.706	0.235	0.160	33.980	6.76	294	96.6	27.350	1027.8	71.0	0.092	1441.4	0.073	335	99
125	-1.672	-1.675	0.288	0.194	34.023	6.70	291	96.8	27.383	1028.0	67.7	0.110	1442.0	0.069	343	124
150	-1.628	-1.631	0.353	0.240	34.057	6.53	284	96.7	27.410	1028.1	65.1	0.126	1442.7	0.072	332	148
175	-1.580	-1.584	0.421	0.290	34.077	6.47	281	96.7	27.425	1028.3	63.5	0.142	1443.3	0.065	340	173
200	-1.639	-1.643	0.382	0.231	34.096	6.51	283	97.0	27.442	1028.4	61.8	0.158	1443.5	0.052	351	198
225	-1.648	-1.653	0.392	0.223	34.106	6.57	286	96.9	27.451	1028.5	60.8	0.173	1443.9	0.026	347	222
250	-1.429	-1.435	0.632	0.444	34.132	6.26	272	97.0	27.465	1028.7	59.4	0.188	1445.3	0.035	334	247
275	-0.845	-0.853	1.238	1.031	34.189	5.57	242	97.1	27.490	1028.8	57.4	0.203	1448.6	0.058	342	272
300	-0.429	-0.439	1.677	1.451	34.262	5.21	227	97.1	27.532	1029.0	53.7	0.217	1451.0	0.072	335	297
325	-0.175	-0.187	1.953	1.708	34.319	4.94	215	97.2	27.566	1029.1	50.7	0.230	1452.7	0.080	323	321
350	0.086	0.072	2.237	1.973	34.390	4.76	207	97.1	27.610	1029.3	46.8	0.242	1454.4	0.079	319	346
375	0.312	0.296	2.485	2.203	34.458	4.52	197	96.8	27.653	1029.4	43.0	0.253	1456.0	0.066	317	371
400	0.521	0.504	2.718	2.417	34.533	4.49	195	96.6	27.701	1029.6	38.8	0.263	1457.4	0.059	337	395
425	0.719	0.700	2.938	2.618	34.600	4.48	195	96.6	27.743	1029.8	35.0	0.273	1458.8	0.065	345	420
450	0.875	0.854	3.117	2.778	34.661	4.48	195	96.7	27.782	1029.9	31.6	0.281	1460.0			445
455	0.874	0.853	3.119	2.777	34.660	4.48	195	96.8	27.781	1029.9	31.7	0.283	1460.1			450

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	145B	2009/02/13	00:13	-71.6448	-114.3930	455	9	459	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.617	-1.617	32.935	26.498	9.07	395	32.928					8	10
223	-1.663	-1.667	34.102	27.447	6.56	285	34.103	6.47	281			4	220
455	0.872	0.851	34.659	27.781	4.48	195	34.653	4.40	191			2	450

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	145U	2009/02/13	00:25	-71.6436	-114.3927	455	9	459	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.614	-1.614	0.190	0.190	32.924	9.12	397	26.489	1026.5	153.3	0.002	1438.8	1
25	-1.745	-1.746	0.131	0.112	33.856	6.90	300	27.249	1027.4	81.0	0.034	1439.8	25
50	-1.781	-1.782	0.117	0.079	33.925	6.73	293	27.306	1027.5	75.4	0.054	1440.1	50
75	-1.749	-1.750	0.170	0.114	33.949	6.80	296	27.325	1027.7	73.5	0.072	1440.7	74
100	-1.698	-1.700	0.241	0.166	33.984	6.74	293	27.352	1027.8	70.8	0.090	1441.4	99
125	-1.652	-1.655	0.308	0.214	34.025	6.66	289	27.385	1028.0	67.6	0.108	1442.1	124
150	-1.634	-1.637	0.347	0.235	34.053	6.53	284	27.407	1028.1	65.3	0.124	1442.6	148
175	-1.593	-1.597	0.408	0.277	34.074	6.48	282	27.422	1028.3	63.8	0.140	1443.3	173
200	-1.648	-1.653	0.373	0.222	34.091	6.51	283	27.438	1028.4	62.1	0.156	1443.4	198
225	-1.636	-1.641	0.404	0.235	34.106	6.55	285	27.450	1028.5	60.8	0.171	1443.9	222
250	-1.507	-1.513	0.553	0.365	34.116	6.45	280	27.454	1028.7	60.4	0.187	1445.0	247
275	-0.887	-0.895	1.195	0.988	34.172	5.72	249	27.478	1028.8	58.5	0.201	1448.4	272
300	-0.439	-0.450	1.666	1.440	34.252	5.23	227	27.524	1029.0	54.4	0.216	1451.0	297
325	-0.202	-0.213	1.926	1.681	34.309	5.06	220	27.559	1029.1	51.3	0.229	1452.6	321
350	0.084	0.070	2.234	1.971	34.383	4.79	208	27.605	1029.3	47.3	0.241	1454.4	346
375	0.311	0.296	2.484	2.202	34.451	4.55	198	27.647	1029.4	43.6	0.252	1455.9	371
400	0.516	0.499	2.713	2.412	34.526	4.49	195	27.695	1029.6	39.2	0.263	1457.4	395
425	0.717	0.698	2.936	2.616	34.595	4.48	195	27.739	1029.7	35.4	0.272	1458.8	420
450	0.871	0.851	3.113	2.774	34.657	4.49	195	27.779	1029.9	31.9	0.281	1460.0	445
455	0.874	0.853	3.119	2.777	34.660	4.48	195	27.781	1029.9	31.7	0.282	1460.1	450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Potential Temperature (°C)
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Pressure (dbar)
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34.0
34.2
34.4
34.6
34.8
Salinity
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**146D**	2009/02/13	08:44	-71.9945	-115.6137	445	7	448	2	4.9	203	-4.2	987.5

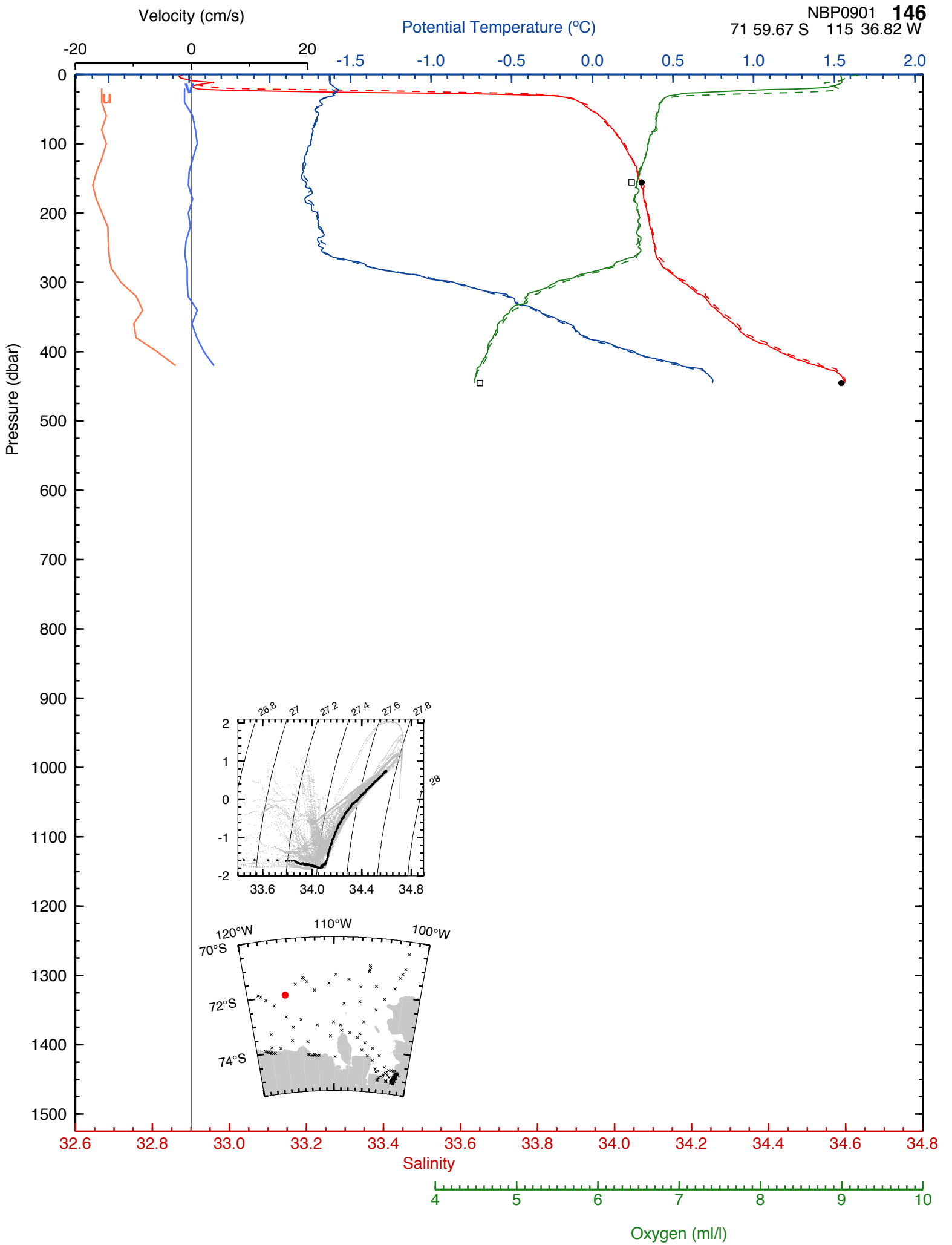
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.625	-1.625	0.178	0.177	32.896	8.99	391	83.1	26.466	1026.5	155.4	0.002	1438.7			1
25	-1.587	-1.587	0.271	0.252	33.536	7.43	323	80.9	26.985	1027.1	106.1	0.037	1440.1	0.155	266	25
50	-1.716	-1.717	0.183	0.146	33.940	6.75	294	90.2	27.317	1027.6	74.4	0.057	1440.5	0.151	268	50
75	-1.723	-1.725	0.197	0.141	33.985	6.71	292	92.7	27.354	1027.7	70.8	0.075	1440.9	0.153	272	74
100	-1.745	-1.746	0.197	0.122	34.026	6.61	287	95.9	27.388	1027.9	67.4	0.092	1441.3	0.147	274	99
125	-1.784	-1.786	0.178	0.084	34.048	6.57	285	96.4	27.406	1028.0	65.5	0.109	1441.5	0.156	271	124
150	-1.800	-1.803	0.182	0.069	34.063	6.49	282	96.8	27.419	1028.1	64.1	0.125	1441.8	0.166	268	148
175	-1.756	-1.760	0.245	0.113	34.076	6.45	281	96.8	27.428	1028.3	63.1	0.141	1442.5	0.166	270	173
200	-1.699	-1.703	0.322	0.171	34.088	6.50	283	97.0	27.437	1028.4	62.1	0.157	1443.2	0.155	268	198
225	-1.676	-1.681	0.364	0.194	34.098	6.49	282	96.9	27.444	1028.5	61.3	0.172	1443.7	0.144	269	222
250	-1.667	-1.673	0.392	0.204	34.107	6.50	283	97.0	27.452	1028.7	60.5	0.187	1444.2	0.143	266	247
275	-1.396	-1.403	0.683	0.476	34.130	6.20	269	97.1	27.462	1028.8	59.6	0.202	1445.9	0.140	266	272
300	-0.849	-0.858	1.253	1.027	34.188	5.48	238	97.1	27.489	1028.9	57.4	0.217	1449.0	0.124	267	297
325	-0.471	-0.482	1.653	1.408	34.245	5.12	223	97.1	27.520	1029.1	54.8	0.231	1451.2	0.094	267	321
350	-0.234	-0.246	1.912	1.648	34.297	4.84	210	97.0	27.551	1029.2	52.1	0.245	1452.8	0.089	275	346
375	-0.063	-0.077	2.104	1.822	34.343	4.73	206	97.1	27.580	1029.4	49.5	0.257	1454.1	0.097	273	371
400	0.274	0.258	2.466	2.165	34.441	4.64	202	97.0	27.641	1029.5	44.1	0.269	1456.2	0.070	286	395
425	0.702	0.683	2.920	2.600	34.576	4.51	196	96.9	27.725	1029.7	36.7	0.279	1458.7	0.047	325	420
445	0.764	0.744	2.998	2.663	34.597	4.49	195	96.8	27.738	1029.8	35.6	0.286	1459.3			440

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	146B	2009/02/13	08:57	-71.9941	-115.6157	445	7	448	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
156	-1.747	-1.750	34.072	27.425	6.48	282	34.070	6.42	279			3	154
445	0.765	0.745	34.598	27.738	4.49	195	34.589	4.55	198			2	440

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	146U	2009/02/13	09:07	-71.9938	-115.6171	445	7	448	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.632	-1.632	0.170	0.169	32.879	9.21	401	26.452	1026.5	156.7	0.002	1438.6	1
25	-1.590	-1.591	0.249	0.231	33.227	8.63	375	26.734	1026.9	129.8	0.038	1439.7	25
50	-1.717	-1.718	0.182	0.144	33.935	6.74	293	27.313	1027.6	74.8	0.059	1440.5	50
75	-1.733	-1.735	0.187	0.131	33.990	6.71	292	27.358	1027.7	70.4	0.077	1440.9	74
100	-1.748	-1.750	0.194	0.118	34.022	6.62	288	27.384	1027.9	67.7	0.094	1441.2	99
125	-1.782	-1.784	0.180	0.086	34.049	6.56	285	27.408	1028.0	65.3	0.111	1441.5	124
150	-1.777	-1.780	0.204	0.092	34.062	6.49	282	27.418	1028.1	64.2	0.127	1442.0	148
175	-1.756	-1.759	0.245	0.114	34.075	6.46	281	27.428	1028.3	63.1	0.143	1442.5	173
200	-1.699	-1.704	0.321	0.171	34.086	6.50	282	27.435	1028.4	62.3	0.159	1443.2	198
225	-1.670	-1.675	0.370	0.200	34.095	6.49	282	27.442	1028.5	61.6	0.174	1443.7	222
250	-1.665	-1.671	0.394	0.206	34.104	6.49	282	27.449	1028.7	60.7	0.189	1444.2	247
275	-1.418	-1.425	0.661	0.454	34.123	6.25	272	27.457	1028.8	60.1	0.205	1445.8	272
300	-0.879	-0.887	1.223	0.997	34.178	5.57	242	27.483	1028.9	58.0	0.219	1448.8	297
325	-0.478	-0.489	1.645	1.401	34.239	5.12	223	27.515	1029.1	55.2	0.234	1451.2	321
350	-0.260	-0.272	1.885	1.622	34.285	4.89	212	27.542	1029.2	52.8	0.247	1452.7	346
375	-0.066	-0.080	2.101	1.818	34.336	4.75	206	27.575	1029.4	50.0	0.260	1454.0	371
400	0.245	0.229	2.436	2.134	34.428	4.65	202	27.633	1029.5	44.9	0.272	1456.0	395
425	0.647	0.628	2.863	2.543	34.553	4.55	198	27.709	1029.7	38.1	0.282	1458.4	420
445	0.764	0.744	2.998	2.663	34.597	4.49	195	27.738	1029.8	35.6	0.289	1459.3	440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20
u
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Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**147D**	2009/02/13	15:06	-72.3353	-117.0063	519	8	521	6	2.9	284	-4.2	988.0

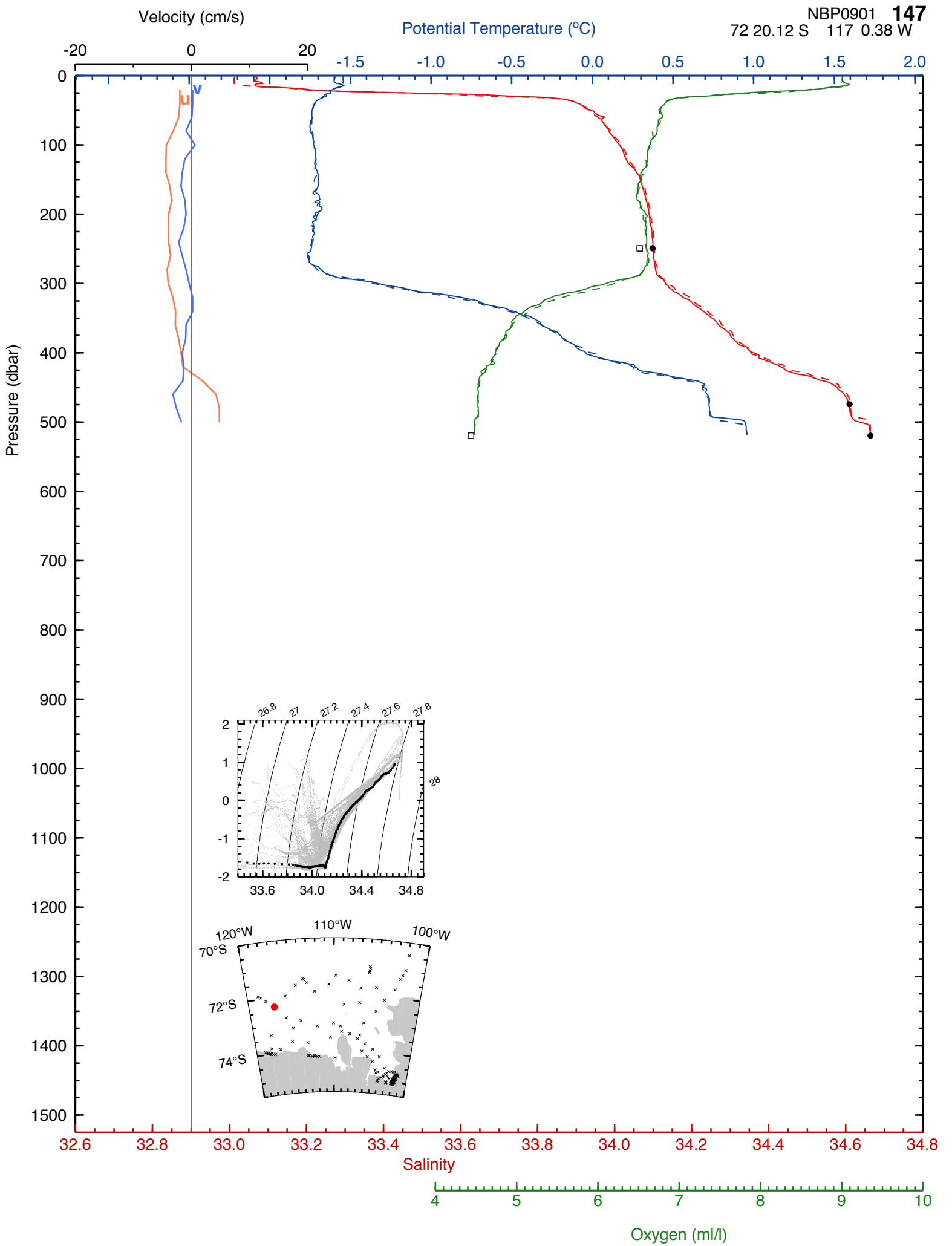
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.594	-1.594	0.216	0.215	33.013	9.01	392	83.2	26.561	1026.6	146.5	0.003	1439.0			2
25	-1.622	-1.623	0.232	0.213	33.474	7.79	339	78.7	26.935	1027.1	110.7	0.035	1439.9	0.020	276	25
50	-1.736	-1.737	0.162	0.125	33.933	6.77	294	92.0	27.312	1027.6	74.9	0.056	1440.4	0.021	274	50
75	-1.749	-1.750	0.171	0.115	33.981	6.73	292	94.8	27.351	1027.7	71.0	0.074	1440.8	0.029	259	74
100	-1.725	-1.727	0.216	0.141	34.017	6.64	289	95.8	27.380	1027.9	68.1	0.091	1441.3	0.042	277	99
125	-1.719	-1.721	0.243	0.148	34.041	6.60	287	96.3	27.399	1028.0	66.2	0.108	1441.8	0.045	255	124
150	-1.697	-1.700	0.285	0.172	34.069	6.53	284	96.6	27.421	1028.1	64.0	0.124	1442.3	0.044	248	148
175	-1.689	-1.693	0.312	0.180	34.084	6.48	282	97.0	27.433	1028.3	62.7	0.140	1442.8	0.038	249	173
200	-1.713	-1.717	0.308	0.158	34.093	6.59	286	97.1	27.441	1028.4	61.7	0.156	1443.1	0.040	256	198
225	-1.722	-1.727	0.318	0.149	34.101	6.58	286	97.0	27.448	1028.5	61.0	0.171	1443.5	0.042	251	222
250	-1.740	-1.745	0.320	0.131	34.104	6.60	287	97.0	27.451	1028.7	60.5	0.186	1443.8	0.043	243	247
275	-1.701	-1.707	0.378	0.171	34.111	6.58	286	97.0	27.455	1028.8	60.0	0.201	1444.4	0.041	253	272
300	-1.321	-1.329	0.778	0.552	34.142	6.10	265	97.0	27.469	1028.9	58.8	0.216	1446.7	0.041	263	297
325	-0.699	-0.709	1.423	1.178	34.208	5.33	232	97.1	27.500	1029.1	56.5	0.231	1450.1	0.032	274	321
350	-0.356	-0.368	1.787	1.524	34.264	4.98	216	97.1	27.530	1029.2	53.8	0.244	1452.2	0.028	268	346
375	-0.185	-0.199	1.980	1.697	34.309	4.86	211	97.1	27.558	1029.3	51.4	0.258	1453.5	0.026	249	371
400	-0.026	-0.041	2.161	1.859	34.354	4.74	206	97.1	27.587	1029.5	48.8	0.270	1454.7	0.024	232	395
425	0.309	0.291	2.520	2.200	34.457	4.58	199	97.1	27.652	1029.7	43.1	0.282	1456.8	0.020	229	420
450	0.706	0.686	2.943	2.604	34.586	4.52	197	97.0	27.732	1029.9	36.1	0.291	1459.1	0.031	128	445
475	0.745	0.723	3.002	2.645	34.610	4.52	197	97.0	27.750	1030.0	34.5	0.300	1459.8	0.054	123	469
500	0.971	0.947	3.250	2.874	34.663	4.48	195	97.0	27.778	1030.1	32.2	0.308	1461.3	0.052	112	494
519	0.981	0.956	3.275	2.884	34.664	4.48	195	97.0	27.778	1030.2	32.3	0.315	1461.6			513

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	147B	2009/02/13	15:21	-72.3362	-117.0057	519	8	521	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.542	-1.542	33.082	26.615	8.99	391				2051.5	-0.591	12,11	10
50	-1.737	-1.738	33.935	27.314	6.74	293				2200.6	-0.650	10,9	50
249	-1.743	-1.748	34.102	27.449	6.59	286	34.099	6.51	283	2204.2	-0.568	8,7	246
392	-0.056	-0.070	34.347	27.583	4.78	208				2223.3	-0.307	6,5	387
474	0.748	0.726	34.608	27.748	4.52	197	34.610			2237.8	-0.133	4,3	469
519	0.983	0.958	34.665	27.779	4.48	195	34.664	4.44	193	2256.4	-0.043	2,1	513

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	147U	2009/02/13	15:39	-72.3369	-117.0053	519	8	521	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.548	-1.548	0.264	0.264	33.062	9.01	392	26.599	1026.6	142.8	0.001	1439.3	1
25	-1.637	-1.637	0.217	0.198	33.482	8.06	351	26.943	1027.1	110.0	0.034	1439.8	25
50	-1.737	-1.738	0.162	0.124	33.939	6.75	294	27.316	1027.6	74.5	0.055	1440.4	50
75	-1.742	-1.743	0.179	0.122	33.980	6.71	292	27.350	1027.7	71.1	0.073	1440.8	74
100	-1.726	-1.728	0.215	0.140	34.013	6.64	289	27.376	1027.9	68.5	0.090	1441.3	99
125	-1.712	-1.715	0.249	0.155	34.034	6.59	287	27.393	1028.0	66.7	0.107	1441.8	124
150	-1.719	-1.722	0.263	0.150	34.067	6.54	284	27.420	1028.1	64.0	0.124	1442.2	148
175	-1.707	-1.711	0.294	0.162	34.080	6.50	283	27.430	1028.3	62.9	0.139	1442.7	173
200	-1.698	-1.703	0.322	0.172	34.090	6.55	285	27.438	1028.4	62.0	0.155	1443.2	198
225	-1.731	-1.735	0.309	0.140	34.097	6.59	286	27.445	1028.5	61.2	0.171	1443.5	222
250	-1.755	-1.761	0.304	0.115	34.102	6.60	287	27.450	1028.7	60.6	0.186	1443.7	247
275	-1.719	-1.725	0.359	0.152	34.105	6.60	287	27.451	1028.8	60.3	0.201	1444.3	272
300	-1.349	-1.356	0.750	0.524	34.132	6.20	269	27.462	1028.9	59.5	0.216	1446.5	297
325	-0.743	-0.753	1.378	1.133	34.196	5.42	235	27.492	1029.0	57.1	0.230	1449.9	321
350	-0.382	-0.394	1.761	1.497	34.254	5.03	219	27.523	1029.2	54.5	0.244	1452.1	346
375	-0.199	-0.213	1.965	1.683	34.301	4.88	212	27.553	1029.3	51.8	0.258	1453.4	371
400	0.005	-0.010	2.192	1.891	34.360	4.74	206	27.590	1029.5	48.6	0.270	1454.8	395
425	0.290	0.273	2.501	2.181	34.444	4.62	201	27.643	1029.7	43.9	0.282	1456.7	420
450	0.707	0.686	2.944	2.605	34.579	4.53	197	27.727	1029.9	36.6	0.292	1459.1	445
475	0.747	0.725	3.005	2.647	34.608	4.52	197	27.748	1030.0	34.7	0.301	1459.8	469
500	0.878	0.855	3.156	2.780	34.636	4.51	196	27.762	1030.1	33.6	0.309	1460.8	494
519	0.981	0.956	3.275	2.884	34.664	4.48	195	27.778	1030.2	32.3	0.316	1461.6	513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Potential Temperature (°C)
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1.5
2.0
NBP0901 147
72 20.12 S 117 0.38 W
Pressure (dbar)
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100
200
300
400
500
600
700
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900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
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1
0
-1
-2
33.6
34.0
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**148D**	2009/02/13	23:14	-73.3374	-117.8593	358	9	364	2	4.2	353	-3.4	988.4

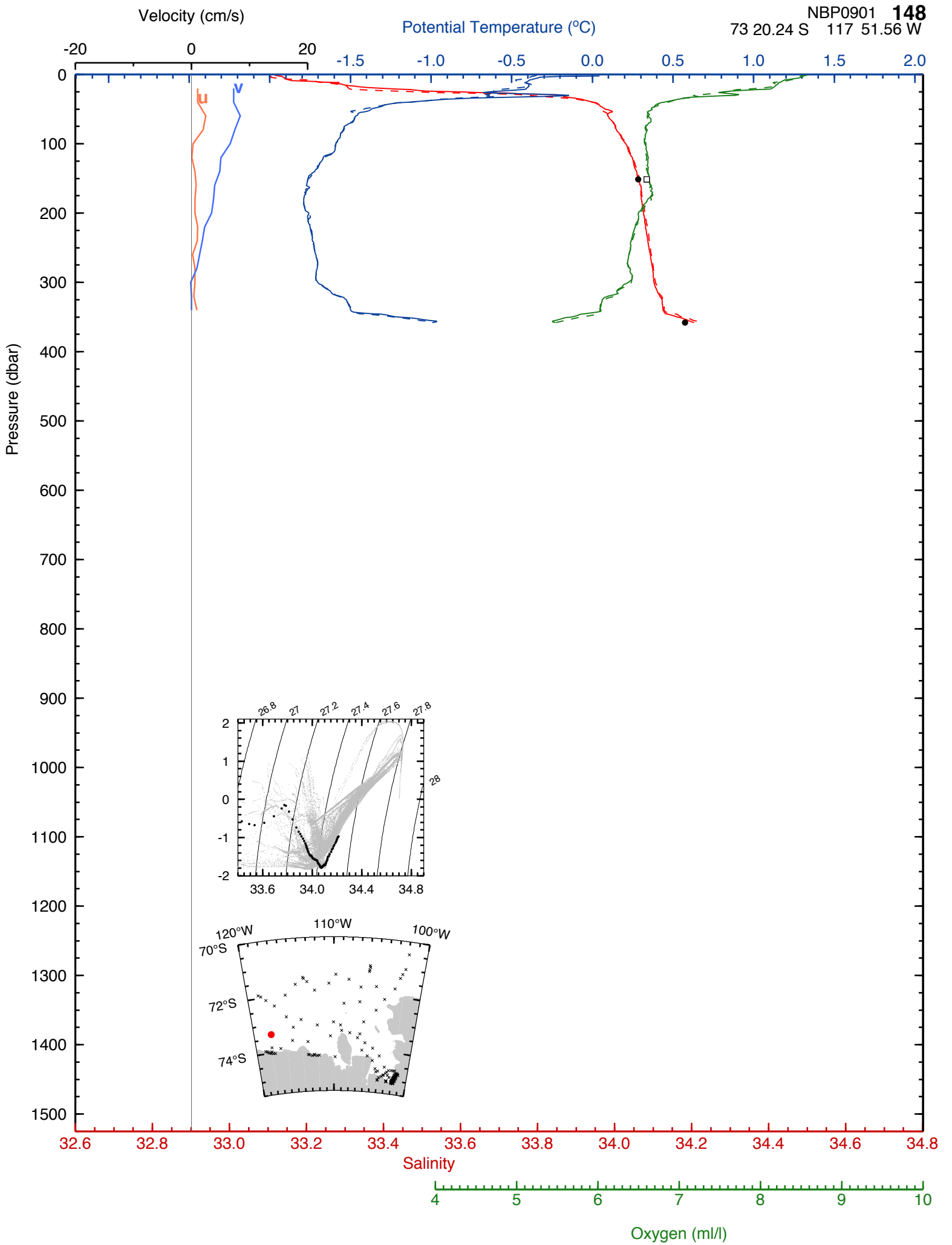
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	0.044	0.044	1.860	1.858	33.108	8.51	370	90.8	26.577	1026.6	144.9	0.003	1446.8			2
25	-0.643	-0.644	1.212	1.193	33.490	7.54	328	89.9	26.916	1027.0	112.6	0.033	1444.5	0.074	9	25
50	-1.371	-1.373	0.529	0.492	33.968	6.67	290	94.5	27.330	1027.6	73.2	0.054	1442.2	0.081	12	50
75	-1.535	-1.537	0.386	0.330	34.003	6.59	286	95.3	27.363	1027.7	69.9	0.072	1441.8	0.081	15	74
100	-1.587	-1.590	0.355	0.279	34.031	6.59	287	95.9	27.387	1027.9	67.5	0.089	1442.0	0.068	3	99
125	-1.677	-1.680	0.285	0.190	34.050	6.61	287	95.9	27.406	1028.0	65.6	0.106	1442.0	0.051	2	124
150	-1.760	-1.763	0.221	0.109	34.064	6.62	288	96.1	27.419	1028.1	64.1	0.122	1442.0	0.046	9	148
175	-1.782	-1.786	0.219	0.087	34.071	6.67	290	96.5	27.425	1028.3	63.3	0.138	1442.4	0.039	10	173
200	-1.755	-1.759	0.265	0.115	34.080	6.50	282	96.6	27.432	1028.4	62.6	0.154	1442.9	0.036	10	198
225	-1.737	-1.742	0.302	0.133	34.087	6.44	280	96.6	27.437	1028.5	62.0	0.169	1443.4	0.025	26	222
250	-1.720	-1.726	0.338	0.150	34.093	6.40	278	96.8	27.441	1028.6	61.4	0.185	1443.9	0.018	21	247
275	-1.697	-1.703	0.381	0.174	34.100	6.37	277	96.7	27.446	1028.8	60.8	0.200	1444.4	0.012	23	272
300	-1.697	-1.704	0.400	0.174	34.106	6.38	277	96.7	27.452	1028.9	60.1	0.215	1444.8	0.007	88	297
325	-1.519	-1.527	0.598	0.353	34.126	6.05	263	95.9	27.462	1029.0	59.2	0.230	1446.1	0.004	90	321
350	-1.184	-1.194	0.954	0.691	34.179	5.66	246	95.7	27.495	1029.2	56.3	0.244	1448.2			346
358	-0.982	-0.993	1.164	0.895	34.206	5.48	238	95.6	27.509	1029.2	55.1	0.249	1449.3			354

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	148B	2009/02/13	23:24	-73.3373	-117.8591	358	9	364	2

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
151	-1.763	-1.766	34.064	27.419	6.62	288	34.062	6.60	287			3	150
358	-1.124	-1.134	34.202	27.512	5.57	242	34.183					1	354

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	148U	2009/02/13	23:35	-73.3373	-117.8599	358	9	364	2

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.345	-0.345	1.471	1.470	33.117	8.58	373	26.602	1026.6	142.5	0.001	1445.0	1
25	-0.617	-0.618	1.244	1.225	33.599	7.57	329	27.003	1027.1	104.4	0.032	1444.8	25
50	-1.416	-1.417	0.486	0.448	33.976	6.63	288	27.337	1027.6	72.5	0.053	1442.0	50
75	-1.537	-1.538	0.385	0.328	34.001	6.58	286	27.362	1027.7	70.0	0.070	1441.8	74
100	-1.589	-1.591	0.353	0.278	34.029	6.58	286	27.386	1027.9	67.6	0.088	1442.0	99
125	-1.682	-1.684	0.280	0.186	34.049	6.59	287	27.404	1028.0	65.7	0.104	1442.0	124
150	-1.757	-1.760	0.225	0.112	34.062	6.62	288	27.417	1028.1	64.3	0.121	1442.1	148
175	-1.774	-1.778	0.227	0.095	34.068	6.66	289	27.423	1028.3	63.6	0.136	1442.4	173
200	-1.761	-1.765	0.259	0.108	34.075	6.53	284	27.428	1028.4	62.9	0.152	1442.9	198
225	-1.743	-1.748	0.296	0.127	34.082	6.45	281	27.433	1028.5	62.3	0.168	1443.4	222
250	-1.719	-1.725	0.339	0.151	34.089	6.40	278	27.439	1028.6	61.7	0.183	1443.9	247
275	-1.699	-1.705	0.379	0.172	34.097	6.37	277	27.444	1028.8	61.0	0.199	1444.4	272
300	-1.699	-1.706	0.398	0.172	34.102	6.41	279	27.449	1028.9	60.4	0.214	1444.8	297
325	-1.519	-1.526	0.598	0.353	34.123	6.08	264	27.460	1029.0	59.4	0.229	1446.1	321
350	-1.217	-1.226	0.921	0.658	34.164	5.80	252	27.484	1029.2	57.3	0.244	1448.0	346
358	-0.982	-0.993	1.164	0.895	34.206	5.48	238	27.509	1029.2	55.1	0.248	1449.3	354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20
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-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 148
73 20.24 S 117 51.56 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**149D**	2009/02/14	04:38	-73.9225	-118.8248	751	0	742	7	6.6	198	-9.6	989.0

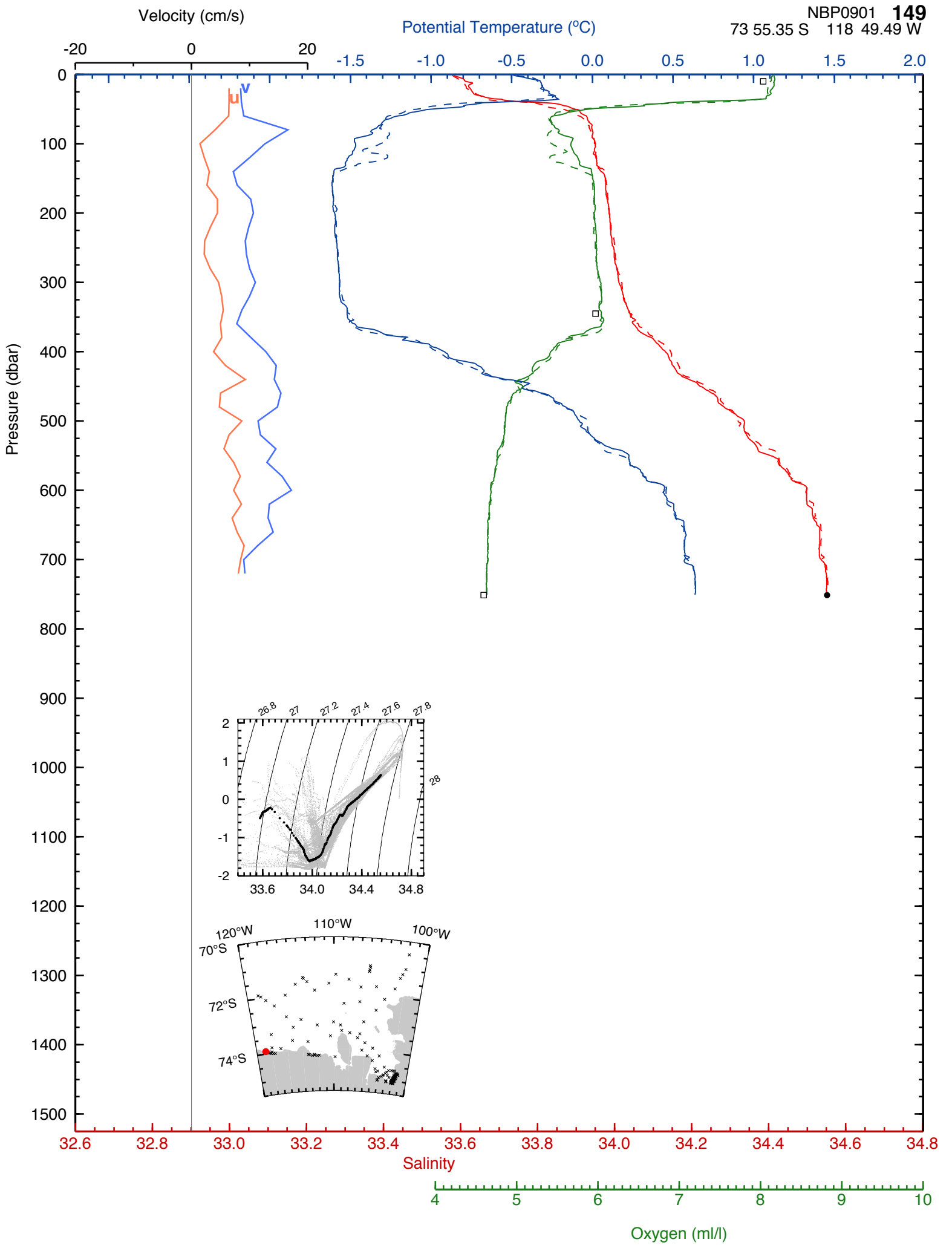
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.491	-0.491	1.351	1.350	33.579	8.16	355	92.7	26.981	1027.0	106.5	0.001	1445.0			1
25	-0.267	-0.268	1.596	1.577	33.635	8.12	353	93.4	27.017	1027.1	103.1	0.026	1446.5	0.107	37	25
50	-1.007	-1.008	0.888	0.850	33.865	5.88	255	95.8	27.234	1027.5	82.4	0.050	1443.7	0.109	36	50
75	-1.326	-1.328	0.591	0.535	33.934	5.46	238	96.8	27.300	1027.7	75.9	0.070	1442.7	0.153	20	74
100	-1.467	-1.469	0.471	0.395	33.948	5.67	246	96.9	27.316	1027.8	74.2	0.088	1442.5	0.130	7	99
125	-1.522	-1.525	0.435	0.340	33.956	5.77	251	96.9	27.325	1027.9	73.3	0.107	1442.6	0.098	14	124
150	-1.606	-1.609	0.370	0.258	33.977	5.93	258	97.0	27.344	1028.1	71.3	0.125	1442.7	0.080	21	148
175	-1.605	-1.609	0.391	0.259	33.982	5.96	259	96.9	27.348	1028.2	70.7	0.143	1443.1	0.101	22	173
200	-1.595	-1.599	0.420	0.270	33.986	5.95	259	96.9	27.351	1028.3	70.3	0.160	1443.5	0.115	23	198
225	-1.593	-1.598	0.441	0.271	33.991	5.97	260	96.9	27.355	1028.4	69.8	0.178	1444.0	0.103	18	222
250	-1.577	-1.583	0.476	0.288	34.001	5.98	260	96.9	27.363	1028.6	68.9	0.195	1444.5	0.097	14	247
275	-1.568	-1.575	0.504	0.297	34.006	5.99	260	96.9	27.366	1028.7	68.4	0.212	1444.9	0.102	16	272
300	-1.561	-1.568	0.531	0.305	34.019	6.04	262	96.9	27.377	1028.8	67.3	0.229	1445.4	0.117	22	297
325	-1.553	-1.561	0.558	0.313	34.026	6.05	263	96.9	27.382	1028.9	66.7	0.246	1445.8	0.112	28	321
350	-1.510	-1.518	0.621	0.357	34.042	6.05	263	96.8	27.394	1029.1	65.5	0.262	1446.5	0.100	32	346
375	-1.280	-1.290	0.873	0.591	34.090	5.78	251	96.9	27.426	1029.2	62.6	0.278	1448.0	0.105	30	371
400	-0.908	-0.920	1.267	0.966	34.146	5.42	236	96.9	27.458	1029.4	59.9	0.294	1450.3	0.130	19	395
425	-0.667	-0.681	1.528	1.208	34.169	5.19	226	96.9	27.468	1029.5	59.2	0.309	1451.8	0.157	22	420
450	-0.412	-0.427	1.806	1.467	34.238	5.08	221	96.8	27.512	1029.7	55.3	0.323	1453.5	0.169	29	445
475	-0.174	-0.192	2.064	1.707	34.282	4.89	213	96.7	27.537	1029.8	53.3	0.337	1455.1	0.159	18	469
500	-0.062	-0.081	2.198	1.822	34.321	4.86	211	96.7	27.562	1029.9	51.0	0.350	1456.1	0.148	31	494
550	0.250	0.227	2.553	2.139	34.427	4.76	207	96.9	27.632	1030.2	45.0	0.374	1458.5	0.154	23	543
600	0.471	0.444	2.816	2.364	34.498	4.68	204	96.9	27.677	1030.5	41.1	0.395	1460.4	0.183	25	593
650	0.596	0.567	2.981	2.492	34.535	4.65	202	97.0	27.699	1030.8	39.3	0.416	1461.9	0.150	28	642
700	0.604	0.571	3.026	2.499	34.536	4.65	202	97.0	27.699	1031.0	39.3	0.435	1462.7	0.134	41	691
750	0.672	0.637	3.134	2.569	34.553	4.63	201	97.0	27.709	1031.2	38.7	0.455	1463.9			741
751	0.672	0.637	3.134	2.569	34.552	4.63	201	97.0	27.708	1031.2	38.7	0.455	1463.9			742

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	149B	2009/02/14	04:56	-73.9225	-118.8251	751	0	742	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.343	-0.344	33.611	27.001	8.12	353		8.04	349		-0.603	13	10
71	-1.314	-1.315	33.936	27.302	5.45	237					-0.561	12	70
249	-1.575	-1.581	33.999	27.361	5.97	259					-0.589	10	246
345	-1.484	-1.493	34.049	27.399	6.03	262		5.97	260		-0.591	7	341
556	0.273	0.249	34.431	27.634	4.76	207					-0.177	5	549
653	0.595	0.566	34.533	27.698	4.65	202					-0.118	3	645
751	0.673	0.637	34.552	27.708	4.63	201	34.551	4.59	200		-0.147	1	742

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	149U	2009/02/14	05:15	-73.9223	-118.8265	751	0	742	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.467	-0.467	1.375	1.374	33.585	8.15	354	26.985	1027.0	106.2	0.001	1445.1	1
25	-0.307	-0.307	1.556	1.537	33.631	8.08	352	27.015	1027.1	103.2	0.026	1446.3	25
50	-1.091	-1.092	0.806	0.768	33.899	5.80	252	27.264	1027.5	79.5	0.049	1443.4	50
75	-1.309	-1.311	0.609	0.552	33.941	5.40	235	27.306	1027.7	75.4	0.069	1442.8	74
100	-1.312	-1.314	0.626	0.550	33.950	5.44	236	27.314	1027.8	74.5	0.087	1443.2	99
125	-1.333	-1.335	0.624	0.530	33.953	5.45	237	27.316	1027.9	74.1	0.106	1443.5	124
150	-1.605	-1.609	0.371	0.258	33.976	5.94	258	27.343	1028.1	71.4	0.124	1442.7	148
175	-1.603	-1.607	0.392	0.260	33.978	5.95	259	27.345	1028.2	71.0	0.142	1443.1	173
200	-1.589	-1.593	0.426	0.276	33.986	5.95	259	27.351	1028.3	70.3	0.160	1443.6	198
225	-1.579	-1.584	0.454	0.285	33.990	5.95	259	27.354	1028.4	69.9	0.177	1444.0	222
250	-1.575	-1.581	0.478	0.290	33.998	5.97	259	27.360	1028.6	69.2	0.195	1444.5	247
275	-1.568	-1.574	0.505	0.298	34.004	5.99	260	27.365	1028.7	68.6	0.212	1444.9	272
300	-1.560	-1.567	0.531	0.305	34.011	6.01	261	27.371	1028.8	67.9	0.229	1445.4	297
325	-1.539	-1.546	0.572	0.328	34.024	6.03	262	27.380	1028.9	66.9	0.246	1445.9	321
350	-1.504	-1.512	0.627	0.363	34.044	6.05	263	27.396	1029.1	65.3	0.262	1446.5	346
375	-1.281	-1.291	0.871	0.589	34.077	5.91	257	27.415	1029.2	63.6	0.278	1448.0	371
400	-0.948	-0.960	1.226	0.925	34.132	5.47	238	27.448	1029.4	60.8	0.294	1450.1	395
425	-0.711	-0.725	1.483	1.163	34.157	5.25	228	27.459	1029.5	59.9	0.309	1451.6	420
450	-0.396	-0.412	1.821	1.482	34.224	5.02	218	27.500	1029.6	56.5	0.323	1453.6	445
475	-0.197	-0.214	2.042	1.684	34.273	4.92	214	27.530	1029.8	53.9	0.337	1455.0	469
500	-0.009	-0.029	2.252	1.875	34.336	4.85	211	27.572	1029.9	50.2	0.350	1456.4	494
550	0.200	0.177	2.502	2.088	34.406	4.79	208	27.617	1030.2	46.2	0.375	1458.2	543
600	0.483	0.457	2.828	2.377	34.498	4.68	203	27.676	1030.5	41.2	0.397	1460.5	593
650	0.574	0.544	2.958	2.469	34.525	4.65	202	27.692	1030.8	39.9	0.417	1461.8	642
700	0.620	0.588	3.043	2.516	34.536	4.65	202	27.699	1031.0	39.4	0.437	1462.8	691
750	0.673	0.637	3.134	2.570	34.551	4.63	201	27.708	1031.2	38.7	0.456	1463.9	741
751	0.672	0.637	3.134	2.569	34.552	4.63	201	27.708	1031.2	38.7	0.457	1463.9	742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Potential Temperature (°C)
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NBP0901 149
73 55.35 S 118 49.49 W
Pressure (dbar)
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100
200
300
400
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600
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1000
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1200
1300
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26.8
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33.6
34.0
34.4
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
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33.2
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**150D**	2009/02/14	05:57	-73.9396	-118.6683	1467	9	1455	8	6.1	214	-7.8	989.3

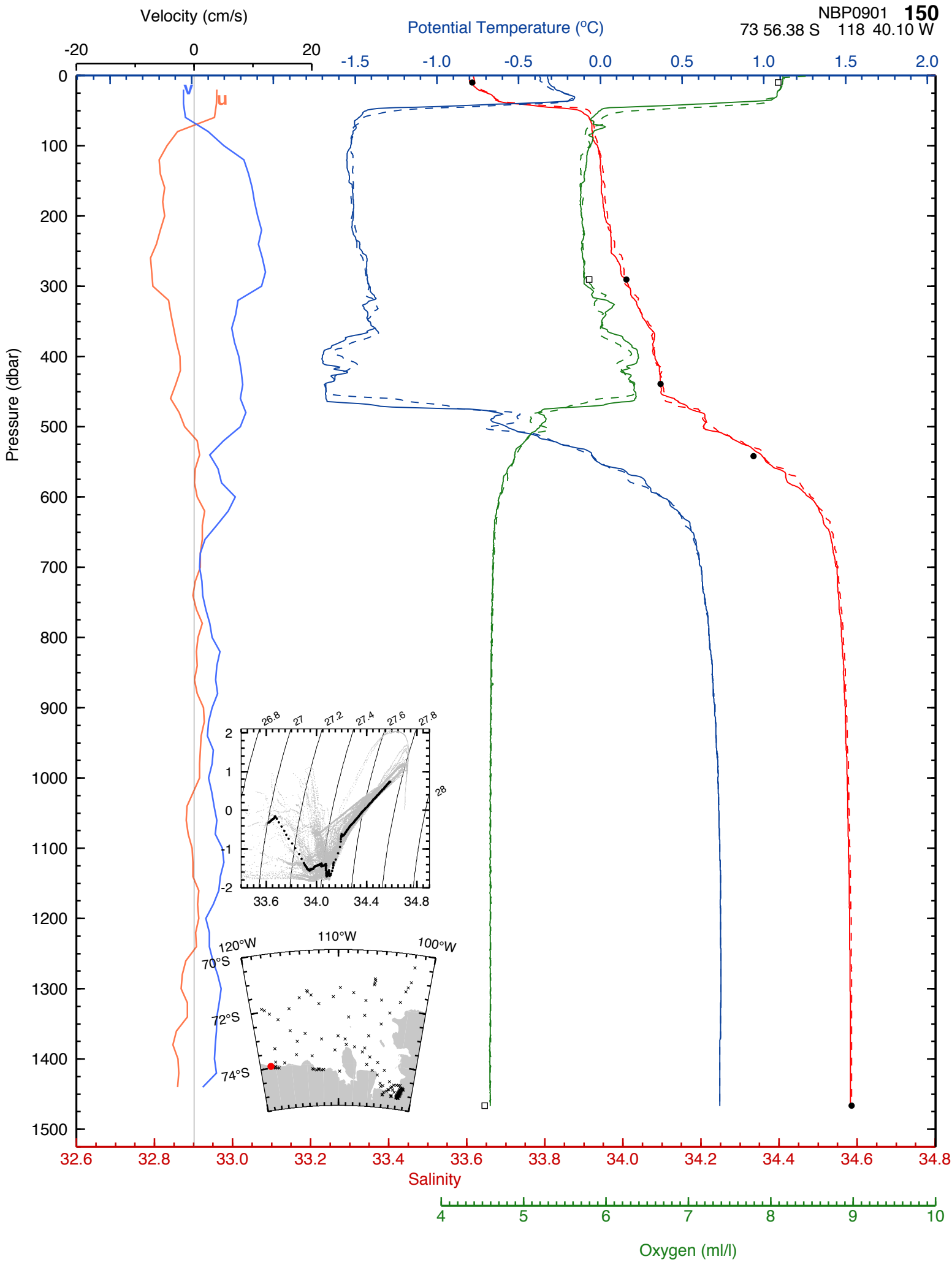
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.322	-0.322	1.522	1.522	33.617	8.14	354	92.9	27.005	1027.0	104.3	0.001	1445.8			1
25	-0.221	-0.222	1.643	1.624	33.655	8.08	351	93.6	27.031	1027.2	101.8	0.026	1446.7	0.043	115	25
50	-1.432	-1.433	0.466	0.428	33.912	5.93	258	95.9	27.286	1027.5	77.3	0.049	1441.8	0.040	114	50
75	-1.492	-1.494	0.425	0.368	33.927	5.96	259	96.4	27.300	1027.7	75.9	0.068	1441.9	0.037	253	74
100	-1.525	-1.527	0.412	0.336	33.937	5.81	253	96.7	27.309	1027.8	74.9	0.087	1442.2	0.067	318	99
125	-1.547	-1.550	0.409	0.315	33.947	5.76	250	96.8	27.318	1027.9	73.9	0.106	1442.5	0.104	326	124
150	-1.535	-1.539	0.440	0.327	33.950	5.74	249	96.9	27.320	1028.0	73.6	0.124	1443.0	0.110	330	148
175	-1.510	-1.514	0.485	0.353	33.954	5.69	247	96.9	27.323	1028.2	73.2	0.143	1443.5	0.114	333	173
200	-1.506	-1.511	0.507	0.357	33.961	5.70	248	96.9	27.328	1028.3	72.5	0.161	1443.9	0.119	335	198
225	-1.507	-1.512	0.526	0.357	33.971	5.74	249	96.9	27.336	1028.4	71.6	0.179	1444.3	0.128	333	222
250	-1.452	-1.458	0.600	0.412	33.983	5.71	248	96.9	27.345	1028.5	70.7	0.197	1445.0	0.130	329	247
275	-1.425	-1.431	0.647	0.440	34.002	5.73	249	96.9	27.359	1028.7	69.2	0.214	1445.6	0.140	329	272
300	-1.405	-1.412	0.687	0.461	34.012	5.77	251	96.9	27.366	1028.8	68.4	0.231	1446.1	0.136	329	297
325	-1.428	-1.436	0.684	0.440	34.039	6.09	265	96.5	27.389	1028.9	66.1	0.248	1446.5	0.086	330	321
350	-1.404	-1.413	0.728	0.465	34.063	5.95	258	96.5	27.408	1029.1	64.3	0.264	1447.0	0.079	331	346
375	-1.549	-1.558	0.603	0.320	34.076	6.21	270	96.7	27.423	1029.2	62.6	0.280	1446.7	0.074	334	371
400	-1.691	-1.700	0.480	0.179	34.082	6.39	278	96.6	27.432	1029.4	61.4	0.296	1446.5	0.079	341	395
425	-1.578	-1.589	0.612	0.292	34.095	6.27	273	96.7	27.439	1029.5	60.7	0.311	1447.4	0.083	344	420
450	-1.668	-1.679	0.542	0.203	34.105	6.35	276	96.6	27.450	1029.6	59.4	0.326	1447.4	0.089	338	445
475	-0.786	-0.801	1.448	1.090	34.193	5.25	228	96.6	27.491	1029.8	56.7	0.341	1452.2	0.090	338	469
500	-0.557	-0.574	1.698	1.322	34.232	5.20	226	96.7	27.513	1029.9	54.9	0.355	1453.7	0.084	347	494
550	0.005	-0.017	2.305	1.891	34.372	4.87	212	96.8	27.600	1030.2	47.5	0.380	1457.3	0.030	16	543
600	0.401	0.375	2.745	2.293	34.483	4.70	204	96.9	27.668	1030.5	41.8	0.402	1460.1	0.062	3	593
650	0.592	0.562	2.977	2.488	34.536	4.64	202	97.0	27.700	1030.8	39.2	0.422	1461.8	0.039	21	642
700	0.649	0.617	3.073	2.546	34.551	4.62	201	97.0	27.709	1031.0	38.5	0.442	1463.0	0.015	48	691
750	0.678	0.642	3.140	2.575	34.559	4.62	201	97.0	27.713	1031.2	38.2	0.461	1463.9	0.015	341	741
800	0.703	0.665	3.203	2.600	34.564	4.61	200	97.0	27.717	1031.5	38.1	0.480	1464.9	0.031	20	790
850	0.726	0.685	3.264	2.624	34.569	4.61	200	97.0	27.720	1031.7	37.9	0.499	1465.8	0.039	7	839
900	0.743	0.699	3.319	2.641	34.573	4.60	200	97.0	27.721	1031.9	37.9	0.518	1466.7	0.038	16	888
950	0.755	0.708	3.369	2.653	34.575	4.60	200	97.0	27.722	1032.2	37.9	0.537	1467.6	0.026	28	938
1000	0.769	0.719	3.420	2.667	34.578	4.60	200	97.0	27.724	1032.4	37.8	0.556	1468.5	0.030	17	987
1200	0.798	0.735	3.600	2.697	34.585	4.59	200	96.9	27.729	1033.3	37.9	0.631	1471.9	0.032	13	1184
1400	0.805	0.729	3.758	2.703	34.586	4.59	199	96.8	27.730	1034.3	38.1	0.707	1475.3	0.051	315	1381
1467	0.809	0.729	3.812	2.708	34.584	4.59	200	96.8	27.728	1034.6	38.4	0.733	1476.4			1446

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	150B	2009/02/14	06:28	-73.9398	-118.6671	1466	9	1455	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.339	-0.339	33.618	27.007	8.13	353	33.614	8.09	352			15	10
34	-0.171	-0.172	33.671	27.042	7.98	347						13	33
150	-1.515	-1.518	33.946	27.316	5.69	247						11	149
290	-1.411	-1.418	34.018	27.372	5.78	251	34.009	5.79	252			9	287
439	-1.660	-1.671	34.100	27.446	6.33	275	34.096				-0.567	7	434
542	-0.072	-0.093	34.346	27.583	4.91	213	34.334				-0.250	5	535
700	0.655	0.622	34.550	27.708	4.63	201						3	692
1466	0.809	0.729	34.585	27.729	4.59	200	34.586	4.53	197			2	1446

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	150U	2009/02/14	07:03	-73.9398	-118.6668	1466	9	1455	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.371	-0.371	1.472	1.471	33.607	8.42	366	27.000	1027.0	104.8	0.001	1445.6	1
25	-0.222	-0.223	1.642	1.623	33.653	8.06	351	27.029	1027.1	101.9	0.026	1446.7	25
50	-1.254	-1.255	0.643	0.605	33.889	6.34	276	27.262	1027.5	79.7	0.050	1442.6	50
75	-1.511	-1.512	0.406	0.350	33.921	5.78	251	27.296	1027.7	76.3	0.069	1441.8	74
100	-1.523	-1.525	0.413	0.338	33.935	5.80	252	27.307	1027.8	75.1	0.088	1442.2	99
125	-1.510	-1.512	0.446	0.352	33.943	5.69	247	27.313	1027.9	74.4	0.107	1442.7	124
150	-1.512	-1.515	0.463	0.350	33.946	5.70	248	27.316	1028.0	73.9	0.125	1443.1	148
175	-1.521	-1.525	0.473	0.341	33.949	5.72	249	27.319	1028.2	73.6	0.144	1443.4	173
200	-1.514	-1.518	0.499	0.348	33.953	5.70	248	27.322	1028.3	73.1	0.162	1443.9	198
225	-1.491	-1.496	0.542	0.373	33.969	5.73	249	27.334	1028.4	71.8	0.180	1444.4	222
250	-1.482	-1.487	0.570	0.382	33.970	5.72	249	27.335	1028.5	71.6	0.198	1444.9	247
275	-1.433	-1.439	0.639	0.432	33.994	5.74	249	27.353	1028.7	69.9	0.216	1445.5	272
300	-1.409	-1.416	0.683	0.457	34.015	5.83	253	27.369	1028.8	68.2	0.233	1446.1	297
325	-1.364	-1.373	0.747	0.503	34.035	5.86	255	27.384	1028.9	66.7	0.250	1446.7	321
350	-1.407	-1.416	0.725	0.461	34.058	5.97	260	27.404	1029.1	64.6	0.266	1447.0	346
375	-1.429	-1.439	0.723	0.440	34.080	6.01	261	27.423	1029.2	62.7	0.282	1447.3	371
400	-1.571	-1.581	0.600	0.299	34.082	6.27	272	27.429	1029.3	61.9	0.298	1447.0	395
425	-1.576	-1.587	0.614	0.294	34.095	6.23	271	27.439	1029.5	60.7	0.313	1447.5	420
450	-1.669	-1.680	0.540	0.201	34.097	6.34	276	27.444	1029.6	60.0	0.328	1447.4	445
475	-0.823	-0.838	1.410	1.052	34.173	5.46	237	27.477	1029.7	58.0	0.343	1452.0	469
500	-0.663	-0.680	1.590	1.213	34.206	5.25	228	27.497	1029.9	56.2	0.357	1453.2	494
550	0.008	-0.014	2.308	1.894	34.368	4.88	212	27.596	1030.2	47.9	0.383	1457.3	543
600	0.403	0.377	2.747	2.295	34.476	4.72	205	27.663	1030.5	42.3	0.405	1460.1	593
650	0.587	0.557	2.972	2.482	34.530	4.65	202	27.695	1030.8	39.6	0.426	1461.8	642
700	0.646	0.613	3.069	2.542	34.547	4.63	201	27.706	1031.0	38.8	0.445	1462.9	691
750	0.675	0.639	3.136	2.571	34.554	4.63	201	27.710	1031.2	38.6	0.465	1463.9	741
800	0.704	0.665	3.203	2.601	34.560	4.61	201	27.713	1031.5	38.4	0.484	1464.9	790
850	0.725	0.683	3.262	2.622	34.565	4.61	200	27.716	1031.7	38.2	0.503	1465.8	839
900	0.746	0.701	3.321	2.643	34.569	4.61	200	27.718	1031.9	38.1	0.522	1466.7	888
950	0.757	0.709	3.370	2.654	34.571	4.60	200	27.719	1032.2	38.2	0.541	1467.6	938
1000	0.769	0.719	3.420	2.667	34.575	4.60	200	27.721	1032.4	38.1	0.560	1468.5	987
1200	0.798	0.735	3.600	2.696	34.581	4.60	200	27.726	1033.3	38.1	0.636	1471.9	1184
1400	0.806	0.731	3.759	2.705	34.583	4.60	200	27.727	1034.3	38.3	0.713	1475.3	1381
1467	0.809	0.729	3.812	2.708	34.584	4.59	200	27.728	1034.6	38.4	0.739	1476.4	1446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Potential Temperature (°C)
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-0.5
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1.0
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NBP0901 150
73 56.38 S 118 40.10 W
Pressure (dbar)
0
100
200
300
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26.8
27
27.2
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2
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33.6
34.0
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34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
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Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**151D**	2009/02/14	07:47	-73.9754	-118.5022	1336	9	1327	8	6.3	218	-7.9	989.4

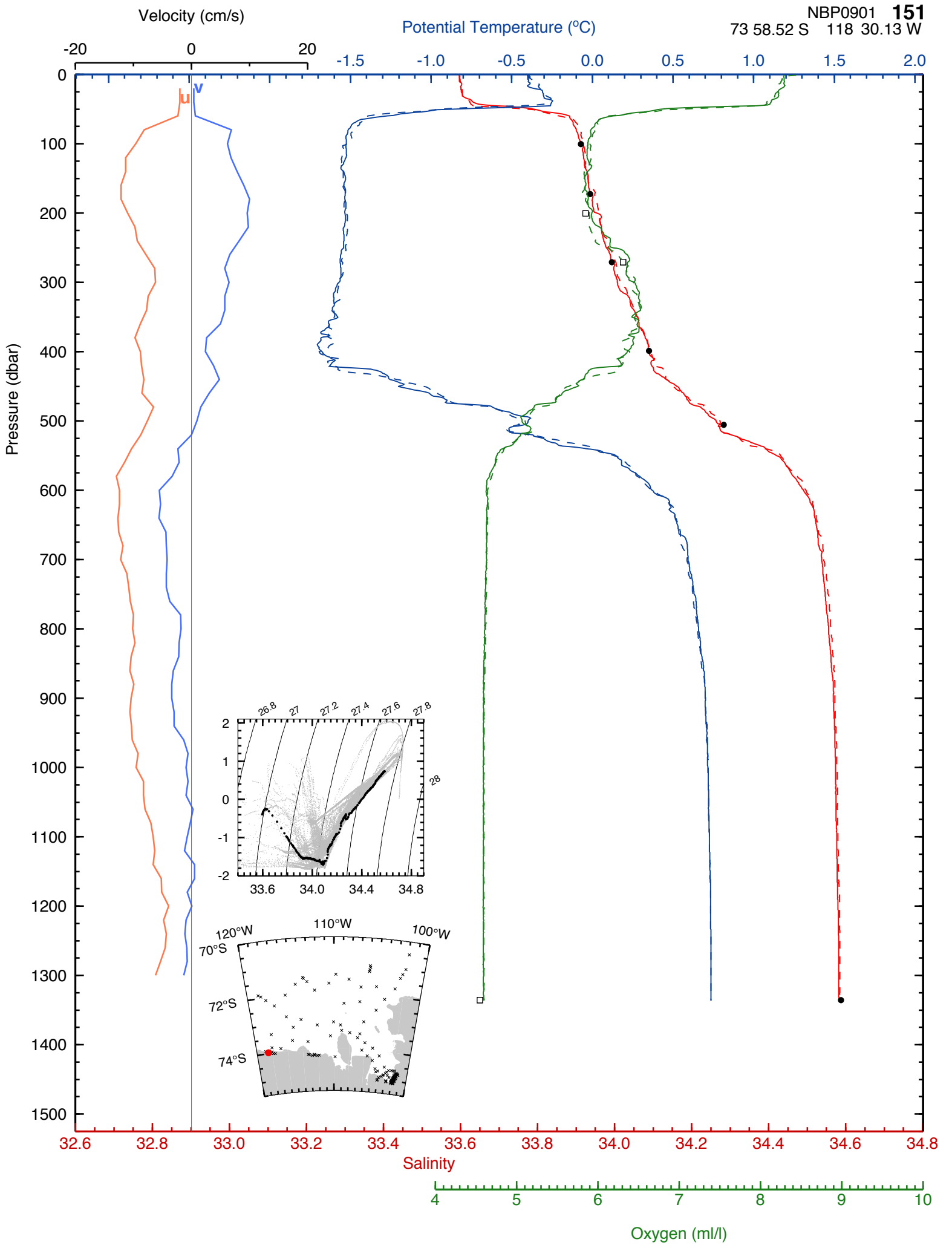
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.394	-0.394	1.449	1.448	33.596	8.29	361	91.7	26.991	1027.0	105.6	0.001	1445.5			1
25	-0.308	-0.309	1.553	1.534	33.605	8.22	357	91.5	26.994	1027.1	105.2	0.026	1446.2	0.020	281	25
50	-0.881	-0.882	1.009	0.971	33.774	6.76	294	93.1	27.155	1027.4	89.9	0.052	1444.2	0.022	284	50
75	-1.495	-1.496	0.421	0.365	33.905	5.96	259	96.3	27.282	1027.6	77.6	0.073	1441.9	0.082	304	74
100	-1.524	-1.526	0.412	0.336	33.919	5.88	255	96.4	27.295	1027.8	76.3	0.092	1442.2	0.114	303	99
125	-1.535	-1.538	0.420	0.326	33.924	5.88	256	96.4	27.299	1027.9	75.7	0.111	1442.5	0.133	302	124
150	-1.527	-1.530	0.447	0.334	33.931	5.84	254	96.5	27.304	1028.0	75.1	0.130	1443.0	0.143	306	148
175	-1.529	-1.533	0.465	0.333	33.949	5.87	255	96.0	27.319	1028.2	73.5	0.148	1443.4	0.155	309	173
200	-1.530	-1.535	0.483	0.332	33.960	5.92	258	96.5	27.328	1028.3	72.5	0.166	1443.8	0.147	311	198
225	-1.539	-1.544	0.494	0.324	33.969	6.05	263	96.4	27.336	1028.4	71.7	0.184	1444.2	0.136	315	222
250	-1.536	-1.542	0.516	0.328	33.984	6.19	269	96.3	27.348	1028.5	70.4	0.202	1444.6	0.116	311	247
275	-1.555	-1.562	0.517	0.310	34.005	6.36	276	96.0	27.365	1028.7	68.6	0.219	1445.0	0.092	311	272
300	-1.565	-1.571	0.527	0.301	34.016	6.45	280	96.0	27.375	1028.8	67.5	0.237	1445.4	0.089	316	297
325	-1.596	-1.604	0.516	0.271	34.041	6.51	283	95.9	27.396	1029.0	65.4	0.253	1445.7	0.094	307	321
350	-1.570	-1.579	0.562	0.298	34.060	6.42	279	96.1	27.411	1029.1	63.8	0.269	1446.2	0.098	304	346
375	-1.657	-1.666	0.495	0.212	34.082	6.39	278	96.4	27.431	1029.2	61.7	0.285	1446.2	0.101	292	371
400	-1.668	-1.677	0.504	0.203	34.094	6.36	277	96.5	27.441	1029.4	60.6	0.300	1446.6	0.093	285	395
425	-1.365	-1.376	0.828	0.508	34.125	5.91	257	96.6	27.457	1029.5	59.3	0.315	1448.5	0.094	294	420
450	-1.191	-1.203	1.022	0.683	34.150	5.75	250	96.4	27.472	1029.6	58.0	0.330	1449.8	0.094	298	445
475	-0.846	-0.861	1.389	1.031	34.215	5.34	232	96.4	27.512	1029.8	54.7	0.344	1451.9	0.079	287	469
500	-0.381	-0.399	1.876	1.500	34.274	5.07	220	96.5	27.540	1029.9	52.7	0.358	1454.6	0.074	279	494
550	0.169	0.146	2.472	2.058	34.431	4.75	207	96.6	27.639	1030.2	44.1	0.382	1458.1	0.108	258	543
600	0.397	0.371	2.742	2.290	34.497	4.63	201	96.4	27.680	1030.5	40.7	0.403	1460.1	0.135	250	593
650	0.557	0.528	2.942	2.452	34.528	4.63	201	96.8	27.695	1030.8	39.6	0.423	1461.7	0.138	247	642
700	0.625	0.592	3.048	2.521	34.543	4.63	201	97.0	27.704	1031.0	39.0	0.443	1462.8	0.128	251	691
750	0.668	0.632	3.129	2.565	34.555	4.61	200	97.0	27.711	1031.2	38.4	0.462	1463.9	0.116	248	741
800	0.696	0.658	3.196	2.593	34.562	4.61	200	97.0	27.715	1031.5	38.2	0.481	1464.8	0.102	260	790
850	0.727	0.686	3.265	2.625	34.569	4.60	200	97.0	27.719	1031.7	38.0	0.501	1465.8	0.106	258	839
900	0.745	0.701	3.320	2.643	34.572	4.59	200	96.9	27.721	1031.9	37.9	0.520	1466.7	0.107	251	888
950	0.757	0.710	3.370	2.655	34.575	4.59	200	96.9	27.723	1032.2	37.9	0.538	1467.6	0.107	254	938
1000	0.766	0.716	3.417	2.664	34.577	4.59	199	97.0	27.724	1032.4	37.9	0.557	1468.5	0.093	266	987
1200	0.796	0.733	3.598	2.694	34.584	4.59	199	96.9	27.728	1033.3	37.9	0.633	1471.9	0.049	264	1184
1336	0.807	0.735	3.711	2.705	34.584	4.59	200	96.8	27.728	1034.0	38.2	0.685	1474.2			1318

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	151B	2009/02/14	08:18	-73.9764	-118.4985	1336	9	1327	8

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
101	-1.535	-1.537	33.917	27.293	5.91	257	33.913					16	100
173	-1.528	-1.531	33.938	27.310	5.81	252	33.936					14	171
200	-1.518	-1.522	33.962	27.330	5.89	256		5.85	254			12	198
271	-1.543	-1.550	33.994	27.356	6.28	273	33.992	6.31	274			10	268
399	-1.681	-1.691	34.091	27.439	6.38	277	34.089					8	394
506	-0.451	-0.469	34.282	27.549	5.14	223	34.283				-0.263	6	500
688	0.605	0.574	34.537	27.700	4.63	201						4	679
1336	0.806	0.735	34.584	27.728	4.60	200	34.588	4.55	198			2	1317

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	151U	2009/02/14	08:47	-73.9765	-118.4985	1336	9	1327	8

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.405	-0.405	1.438	1.437	33.597	8.44	367	26.993	1027.0	105.5	0.001	1445.4	1
25	-0.303	-0.304	1.558	1.539	33.602	8.21	357	26.992	1027.1	105.4	0.026	1446.3	25
50	-0.940	-0.941	0.951	0.914	33.792	7.00	304	27.172	1027.4	88.2	0.052	1444.0	50
75	-1.459	-1.461	0.456	0.400	33.896	6.00	261	27.274	1027.6	78.4	0.072	1442.0	74
100	-1.518	-1.520	0.418	0.343	33.914	5.90	257	27.290	1027.8	76.7	0.091	1442.2	99
125	-1.553	-1.555	0.402	0.308	33.922	5.91	257	27.297	1027.9	75.8	0.110	1442.4	124
150	-1.541	-1.544	0.433	0.320	33.932	5.83	253	27.306	1028.0	74.9	0.129	1442.9	148
175	-1.533	-1.537	0.460	0.328	33.944	5.86	255	27.315	1028.2	73.9	0.148	1443.4	173
200	-1.529	-1.533	0.484	0.334	33.953	5.89	256	27.323	1028.3	73.0	0.166	1443.8	198
225	-1.514	-1.519	0.519	0.349	33.966	5.91	257	27.333	1028.4	71.9	0.184	1444.3	222
250	-1.526	-1.531	0.526	0.338	33.979	6.13	266	27.343	1028.5	70.8	0.202	1444.7	247
275	-1.542	-1.548	0.530	0.323	34.001	6.38	277	27.362	1028.7	68.9	0.220	1445.0	272
300	-1.568	-1.575	0.524	0.298	34.008	6.44	280	27.368	1028.8	68.2	0.237	1445.3	297
325	-1.559	-1.567	0.553	0.308	34.040	6.47	281	27.394	1029.0	65.6	0.254	1445.8	321
350	-1.591	-1.600	0.540	0.277	34.059	6.45	281	27.410	1029.1	63.9	0.270	1446.1	346
375	-1.627	-1.636	0.525	0.242	34.077	6.43	279	27.426	1029.2	62.2	0.286	1446.4	371
400	-1.684	-1.693	0.488	0.186	34.089	6.39	278	27.438	1029.4	60.9	0.301	1446.5	395
425	-1.568	-1.578	0.623	0.303	34.101	6.24	271	27.444	1029.5	60.3	0.316	1447.5	420
450	-1.030	-1.044	1.183	0.844	34.162	5.64	245	27.476	1029.6	57.9	0.331	1450.5	445
475	-0.819	-0.834	1.415	1.057	34.196	5.45	237	27.495	1029.8	56.3	0.345	1452.0	469
500	-0.433	-0.451	1.823	1.447	34.264	5.11	222	27.534	1029.9	53.1	0.359	1454.3	494
550	0.158	0.135	2.461	2.047	34.422	4.79	208	27.632	1030.2	44.8	0.384	1458.1	543
600	0.396	0.369	2.741	2.289	34.490	4.64	202	27.674	1030.5	41.2	0.405	1460.1	593
650	0.561	0.532	2.946	2.456	34.523	4.64	202	27.692	1030.8	39.9	0.425	1461.7	642
700	0.618	0.586	3.041	2.514	34.538	4.63	201	27.700	1031.0	39.3	0.445	1462.8	691
750	0.658	0.623	3.119	2.554	34.547	4.63	201	27.705	1031.2	39.0	0.465	1463.8	741
800	0.691	0.653	3.190	2.588	34.556	4.62	201	27.710	1031.5	38.6	0.484	1464.8	790
850	0.717	0.675	3.254	2.614	34.563	4.61	200	27.715	1031.7	38.4	0.503	1465.7	839
900	0.742	0.698	3.317	2.640	34.568	4.60	200	27.718	1031.9	38.2	0.522	1466.7	888
950	0.759	0.712	3.372	2.657	34.572	4.60	200	27.720	1032.2	38.1	0.541	1467.6	938
1000	0.767	0.717	3.418	2.665	34.574	4.60	200	27.721	1032.4	38.1	0.560	1468.5	987
1200	0.795	0.733	3.597	2.694	34.580	4.60	200	27.725	1033.3	38.2	0.637	1471.9	1184
1336	0.807	0.735	3.711	2.705	34.584	4.59	200	27.728	1034.0	38.2	0.689	1474.2	1318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73 58.52 S 118 30.13 W
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Potential Temperature (°C)
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Pressure (dbar)
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1400
1500
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27.2
27.4
27.6
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-2
33.6
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34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
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34.0
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34.6
34.8
Salinity
4
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10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**152D**	2009/02/14	09:43	-73.9960	-118.3115	1061	62	1109	7	10.1	228	-10.4	989.7

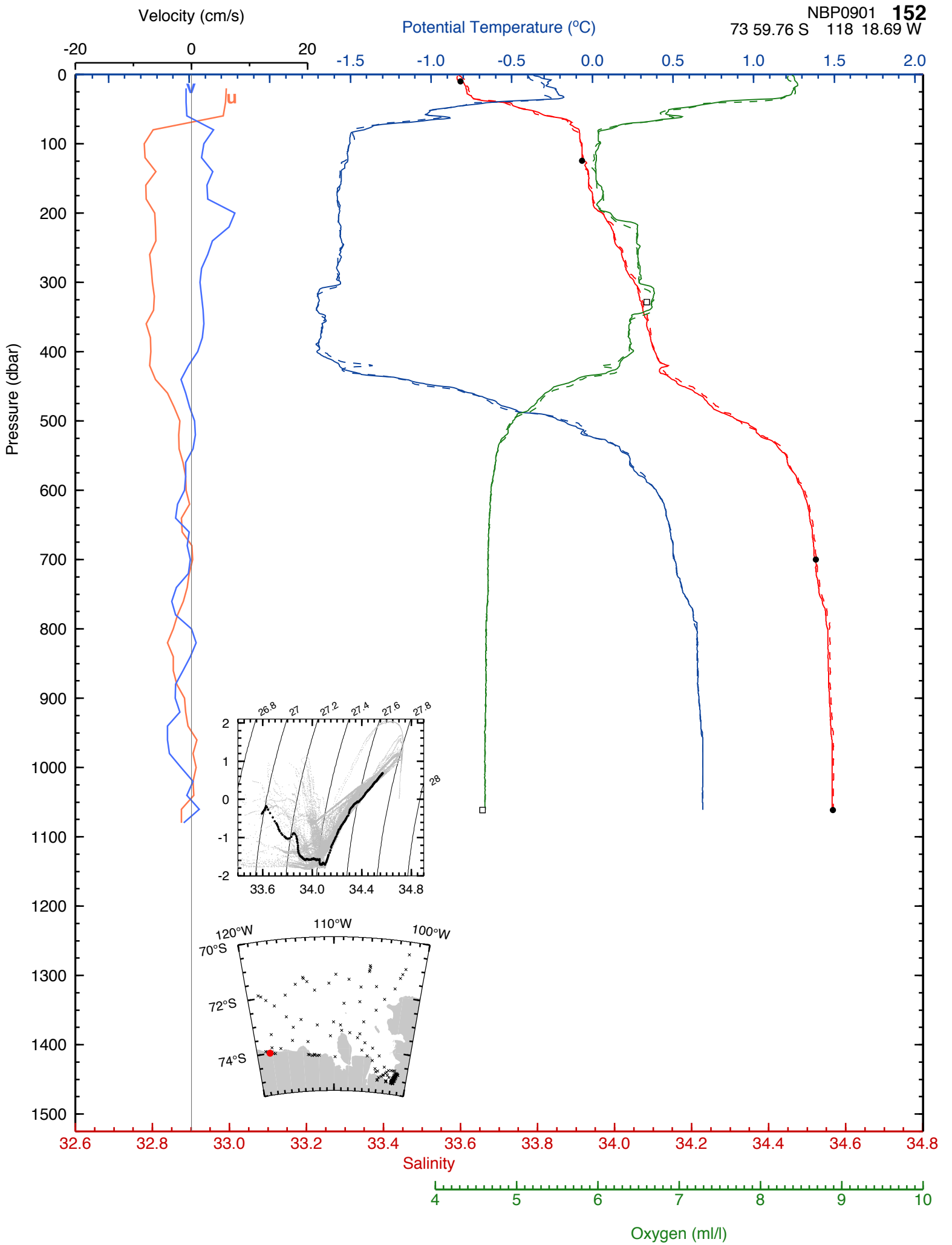
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-0.367	-0.367	1.475	1.475	33.595	8.39	365	90.9	26.989	1027.0	105.8	0.001	1445.6			1
25	-0.217	-0.218	1.645	1.626	33.623	8.39	365	90.1	27.005	1027.1	104.2	0.026	1446.7	0.061	99	25
50	-0.971	-0.972	0.919	0.882	33.774	6.90	300	93.3	27.158	1027.4	89.5	0.051	1443.8	0.058	99	50
75	-1.360	-1.362	0.555	0.498	33.888	6.24	271	95.4	27.265	1027.6	79.3	0.072	1442.5	0.070	241	74
100	-1.502	-1.505	0.433	0.358	33.913	6.03	262	96.2	27.289	1027.8	76.8	0.091	1442.3	0.084	285	99
125	-1.515	-1.518	0.440	0.345	33.919	5.98	260	96.2	27.294	1027.9	76.2	0.110	1442.6	0.080	286	124
150	-1.554	-1.557	0.420	0.307	33.931	5.98	260	96.5	27.305	1028.0	74.9	0.129	1442.8	0.076	296	148
175	-1.579	-1.582	0.415	0.283	33.944	6.06	263	96.5	27.317	1028.2	73.7	0.148	1443.2	0.083	289	173
200	-1.566	-1.570	0.448	0.297	33.969	6.15	267	96.5	27.336	1028.3	71.7	0.166	1443.7	0.096	317	198
225	-1.556	-1.561	0.478	0.309	33.999	6.49	282	95.9	27.360	1028.4	69.3	0.184	1444.2	0.088	314	222
250	-1.554	-1.560	0.500	0.311	34.016	6.51	283	95.6	27.374	1028.6	67.9	0.201	1444.6	0.073	297	247
275	-1.573	-1.579	0.501	0.294	34.030	6.51	283	95.9	27.386	1028.7	66.6	0.218	1444.9	0.073	287	272
300	-1.555	-1.562	0.539	0.314	34.061	6.51	283	96.0	27.411	1028.9	64.1	0.234	1445.5	0.069	283	297
325	-1.687	-1.694	0.427	0.182	34.072	6.67	290	96.3	27.423	1029.0	62.7	0.250	1445.2	0.066	285	321
350	-1.649	-1.657	0.484	0.221	34.085	6.42	279	96.3	27.433	1029.1	61.7	0.265	1445.9	0.072	287	346
375	-1.675	-1.684	0.478	0.196	34.094	6.38	277	96.6	27.442	1029.2	60.7	0.281	1446.2	0.077	285	371
400	-1.699	-1.708	0.474	0.172	34.104	6.43	280	96.6	27.450	1029.4	59.7	0.296	1446.5	0.071	280	395
425	-1.536	-1.547	0.656	0.336	34.122	6.23	271	96.7	27.460	1029.5	58.8	0.311	1447.7	0.072	266	420
450	-0.906	-0.920	1.309	0.970	34.199	5.47	238	96.5	27.501	1029.6	55.7	0.325	1451.2	0.060	254	445
475	-0.568	-0.584	1.669	1.311	34.258	5.23	227	96.5	27.535	1029.8	52.9	0.339	1453.2	0.036	260	469
500	-0.170	-0.189	2.090	1.714	34.324	4.95	215	96.6	27.570	1029.9	50.1	0.351	1455.6	0.024	278	494
550	0.249	0.226	2.553	2.139	34.448	4.75	206	96.6	27.648	1030.2	43.4	0.375	1458.5	0.021	271	543
600	0.422	0.395	2.767	2.315	34.493	4.69	204	96.7	27.676	1030.5	41.1	0.396	1460.2	0.015	220	593
650	0.505	0.476	2.889	2.400	34.515	4.66	202	96.8	27.689	1030.8	40.1	0.416	1461.4	0.030	217	642
700	0.541	0.509	2.963	2.436	34.524	4.64	202	96.8	27.694	1031.0	39.7	0.436	1462.4	0.005	151	691
750	0.604	0.569	3.064	2.499	34.537	4.65	202	96.9	27.700	1031.2	39.3	0.456	1463.5	0.027	195	741
800	0.687	0.648	3.186	2.584	34.558	4.62	201	96.9	27.713	1031.5	38.4	0.475	1464.8	0.034	246	790
850	0.692	0.651	3.229	2.589	34.559	4.62	201	96.9	27.713	1031.7	38.4	0.494	1465.6	0.031	267	839
900	0.704	0.660	3.279	2.602	34.562	4.62	201	96.9	27.715	1031.9	38.4	0.514	1466.5	0.034	214	888
950	0.730	0.683	3.343	2.628	34.568	4.61	200	96.9	27.719	1032.2	38.2	0.533	1467.5	0.039	190	938
1000	0.734	0.684	3.384	2.631	34.568	4.61	200	96.9	27.719	1032.4	38.3	0.552	1468.3	0.032	169	987
1061	0.738	0.684	3.434	2.635	34.567	4.61	200	96.9	27.717	1032.7	38.5	0.575	1469.3			1047

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	152B	2009/02/14	10:06	-73.9960	-118.3116	1061	62	1109	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.357	-0.358	33.599	26.992	8.36	363	33.600					17	10
30	-0.297	-0.298	33.622	27.008	8.37	364						14	30
125	-1.524	-1.527	33.917	27.293	5.95	259	33.916					12	123
328	-1.693	-1.700	34.069	27.422	6.67	290		6.60	287			8	325
387	-1.690	-1.699	34.096	27.444	6.38	278						6	383
700	0.538	0.506	34.521	27.691	4.65	202	34.523					4	692
1061	0.738	0.684	34.567	27.717	4.61	200	34.567	4.58	199			2	1047

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	152U	2009/02/14	10:35	-73.9965	-118.3105	1061	62	1109	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
2	-0.402	-0.402	1.442	1.440	33.593	8.34	363	26.989	1027.0	105.8	0.002	1445.4	2
25	-0.302	-0.302	1.560	1.541	33.617	8.43	367	27.004	1027.1	104.4	0.026	1446.3	25
50	-0.944	-0.945	0.945	0.907	33.764	7.00	304	27.150	1027.4	90.4	0.051	1443.9	50
75	-1.388	-1.390	0.527	0.470	33.892	6.20	270	27.269	1027.6	78.9	0.072	1442.4	74
100	-1.495	-1.498	0.440	0.365	33.915	6.00	261	27.291	1027.8	76.7	0.091	1442.3	99
125	-1.536	-1.539	0.418	0.324	33.921	5.94	258	27.297	1027.9	75.9	0.110	1442.5	124
150	-1.563	-1.566	0.411	0.298	33.933	5.99	260	27.307	1028.0	74.8	0.129	1442.8	148
175	-1.579	-1.583	0.415	0.283	33.943	6.07	264	27.316	1028.2	73.8	0.148	1443.2	173
200	-1.567	-1.571	0.447	0.296	33.968	6.10	265	27.335	1028.3	71.8	0.166	1443.7	198
225	-1.561	-1.566	0.473	0.303	33.995	6.43	280	27.357	1028.4	69.6	0.184	1444.1	222
250	-1.546	-1.552	0.508	0.320	34.011	6.48	281	27.370	1028.6	68.3	0.201	1444.6	247
275	-1.572	-1.578	0.502	0.295	34.027	6.49	282	27.384	1028.7	66.8	0.218	1444.9	272
300	-1.564	-1.571	0.529	0.304	34.051	6.51	283	27.403	1028.8	64.8	0.234	1445.4	297
325	-1.702	-1.709	0.412	0.167	34.066	6.68	291	27.419	1029.0	63.1	0.250	1445.2	321
350	-1.662	-1.671	0.471	0.207	34.079	6.50	282	27.428	1029.1	62.1	0.266	1445.8	346
375	-1.672	-1.681	0.480	0.198	34.091	6.38	277	27.439	1029.2	61.0	0.281	1446.2	371
400	-1.661	-1.670	0.511	0.210	34.104	6.38	277	27.449	1029.4	59.8	0.296	1446.7	395
425	-1.539	-1.549	0.653	0.333	34.118	6.22	270	27.457	1029.5	59.1	0.311	1447.7	420
450	-0.992	-1.006	1.222	0.883	34.178	5.64	245	27.487	1029.6	56.9	0.326	1450.8	445
475	-0.602	-0.618	1.634	1.277	34.244	5.27	229	27.525	1029.8	53.8	0.340	1453.1	469
500	-0.137	-0.156	2.123	1.747	34.326	4.96	215	27.570	1029.9	50.2	0.353	1455.8	494
550	0.257	0.234	2.562	2.148	34.445	4.75	206	27.646	1030.2	43.6	0.376	1458.5	543
600	0.423	0.397	2.768	2.316	34.489	4.69	204	27.672	1030.5	41.5	0.397	1460.2	593
650	0.506	0.477	2.890	2.400	34.511	4.66	203	27.684	1030.8	40.5	0.418	1461.4	642
700	0.541	0.509	2.963	2.436	34.521	4.65	202	27.691	1031.0	40.0	0.438	1462.4	691
750	0.602	0.567	3.062	2.497	34.532	4.65	202	27.696	1031.2	39.7	0.458	1463.5	741
800	0.683	0.644	3.182	2.579	34.553	4.63	201	27.709	1031.5	38.7	0.477	1464.8	790
850	0.691	0.650	3.228	2.588	34.555	4.63	201	27.710	1031.7	38.7	0.497	1465.6	839
900	0.705	0.661	3.279	2.602	34.558	4.62	201	27.712	1031.9	38.7	0.516	1466.5	888
950	0.722	0.675	3.334	2.619	34.562	4.62	201	27.714	1032.2	38.6	0.535	1467.4	938
1000	0.734	0.684	3.384	2.631	34.565	4.61	200	27.716	1032.4	38.5	0.554	1468.3	987
1061	0.738	0.684	3.434	2.635	34.567	4.61	200	27.717	1032.7	38.5	0.578	1469.3	1047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Potential Temperature (°C)
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Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**153D**	2009/02/14	11:36	-74.0112	-118.1313	1006	9	1002	7	10.8	225	-12.1	990.3

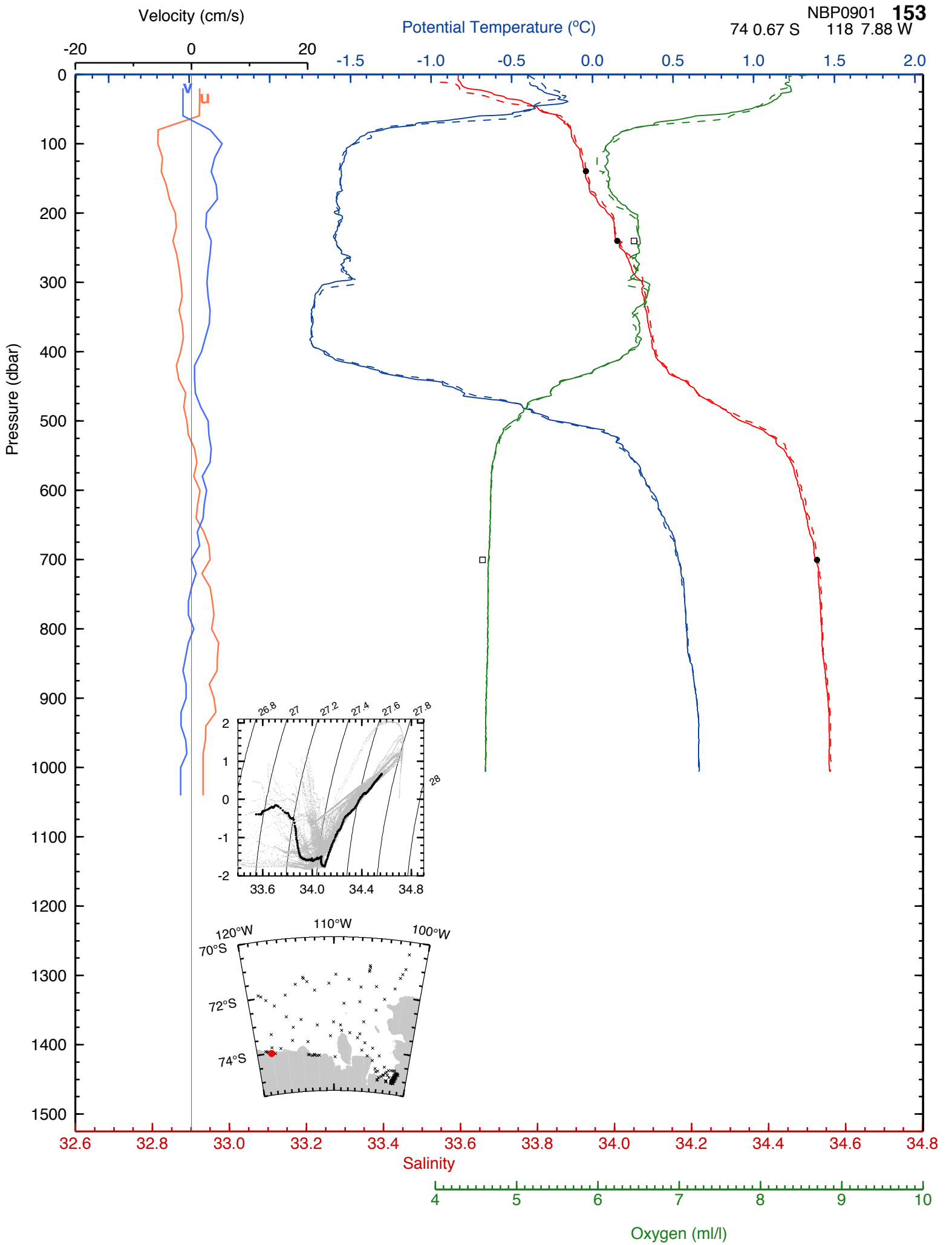
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
11	-0.386	-0.386	1.462	1.453	33.547	8.36	363	90.9	26.951	1027.0	109.3	0.012	1445.6			11
25	-0.302	-0.303	1.559	1.540	33.603	8.37	364	90.9	26.993	1027.1	105.4	0.027	1446.3	0.021	137	25
50	-0.372	-0.374	1.519	1.482	33.807	7.86	342	92.6	27.161	1027.4	89.3	0.051	1446.6	0.021	138	50
75	-1.159	-1.161	0.755	0.699	33.880	6.56	285	94.5	27.252	1027.6	80.6	0.072	1443.4	0.052	253	74
100	-1.480	-1.482	0.454	0.379	33.902	6.13	266	95.9	27.279	1027.8	77.7	0.092	1442.3	0.078	312	99
125	-1.538	-1.541	0.417	0.323	33.922	6.13	266	96.0	27.297	1027.9	75.9	0.111	1442.5	0.064	308	124
150	-1.557	-1.560	0.418	0.305	33.932	6.15	267	96.2	27.306	1028.0	74.8	0.130	1442.8	0.062	308	148
175	-1.581	-1.585	0.413	0.281	33.953	6.19	269	96.4	27.324	1028.2	73.1	0.149	1443.2	0.060	318	173
200	-1.594	-1.599	0.421	0.270	33.991	6.44	280	96.2	27.355	1028.3	69.9	0.166	1443.5	0.040	314	198
225	-1.578	-1.583	0.457	0.287	34.001	6.49	282	95.8	27.363	1028.4	69.1	0.184	1444.0	0.037	314	222
250	-1.563	-1.569	0.491	0.303	34.021	6.49	282	95.9	27.379	1028.6	67.4	0.201	1444.6	0.045	319	247
275	-1.551	-1.558	0.524	0.317	34.050	6.50	283	96.0	27.402	1028.7	65.1	0.217	1445.1	0.038	323	272
300	-1.600	-1.607	0.495	0.269	34.073	6.60	287	96.2	27.422	1028.9	63.1	0.233	1445.3	0.033	326	297
325	-1.716	-1.723	0.399	0.154	34.082	6.58	286	96.2	27.432	1029.0	61.8	0.249	1445.1	0.033	331	321
350	-1.727	-1.735	0.407	0.143	34.091	6.48	282	96.4	27.440	1029.1	60.9	0.264	1445.5	0.037	328	346
375	-1.735	-1.743	0.418	0.136	34.099	6.49	282	96.3	27.447	1029.2	60.1	0.279	1445.9	0.031	331	371
400	-1.655	-1.665	0.517	0.216	34.108	6.38	277	96.5	27.452	1029.4	59.6	0.294	1446.7	0.026	316	395
425	-1.355	-1.366	0.838	0.518	34.139	5.97	259	96.5	27.468	1029.5	58.3	0.309	1448.6	0.026	281	420
450	-0.880	-0.894	1.335	0.997	34.200	5.48	238	96.6	27.501	1029.6	55.8	0.323	1451.3	0.020	288	445
475	-0.445	-0.461	1.793	1.436	34.266	5.13	223	96.6	27.536	1029.8	52.9	0.337	1453.8	0.016	312	469
500	-0.208	-0.227	2.053	1.677	34.343	4.96	216	96.6	27.587	1030.0	48.4	0.350	1455.5	0.027	338	494
550	0.252	0.229	2.557	2.143	34.453	4.73	206	96.7	27.653	1030.3	43.0	0.372	1458.5	0.034	10	543
600	0.385	0.359	2.730	2.278	34.486	4.68	203	96.7	27.672	1030.5	41.4	0.393	1460.0	0.026	23	593
650	0.494	0.465	2.878	2.389	34.511	4.67	203	96.8	27.685	1030.8	40.4	0.414	1461.4	0.022	26	642
700	0.565	0.533	2.987	2.460	34.527	4.65	202	96.9	27.695	1031.0	39.7	0.434	1462.5	0.032	79	691
750	0.605	0.570	3.066	2.501	34.536	4.65	202	96.9	27.700	1031.2	39.4	0.454	1463.5	0.032	90	741
800	0.621	0.583	3.119	2.516	34.540	4.64	202	96.9	27.702	1031.5	39.3	0.473	1464.5	0.037	90	790
850	0.653	0.613	3.190	2.550	34.548	4.63	201	96.9	27.707	1031.7	38.9	0.493	1465.4	0.046	102	839
900	0.688	0.644	3.263	2.585	34.557	4.63	201	96.9	27.712	1031.9	38.6	0.512	1466.4	0.035	105	888
950	0.706	0.659	3.318	2.603	34.561	4.62	201	96.9	27.714	1032.2	38.5	0.531	1467.3	0.033	124	938
1000	0.712	0.662	3.362	2.609	34.561	4.62	201	96.8	27.714	1032.4	38.6	0.551	1468.2	0.024	119	987
1006	0.711	0.661	3.366	2.608	34.560	4.61	201	96.8	27.713	1032.4	38.7	0.553	1468.3			993

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	153B	2009/02/14	12:01	-74.0119	-118.1295	1006	9	1002	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-0.336	-0.337	33.600	26.992	8.35	363						14	10
21	-0.297	-0.298	33.624	27.010	8.24	358						12	21
140	-1.565	-1.568	33.925	27.300	6.01	261	33.926					10	138
240	-1.592	-1.597	34.004	27.366	6.48	282	34.007	6.44	280			8	238
381	-1.730	-1.739	34.096	27.445	6.47	281						6	376
700	0.562	0.529	34.524	27.692	4.66	202	34.526	4.58	199			4	692
1006	0.711	0.661	34.560	27.713	4.62	201						2	993

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	153U	2009/02/14	12:27	-74.0118	-118.1299	1006	9	1002	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.397	-0.397	1.446	1.445	33.594	8.57	373	26.990	1027.0	105.7	0.001	1445.4	1
25	-0.203	-0.204	1.662	1.643	33.672	8.21	357	27.044	1027.2	100.5	0.026	1446.8	25
50	-0.357	-0.359	1.534	1.496	33.803	7.91	344	27.157	1027.4	89.8	0.050	1446.7	50
75	-1.250	-1.252	0.665	0.608	33.886	6.57	286	27.259	1027.6	79.8	0.071	1443.0	74
100	-1.469	-1.471	0.465	0.390	33.898	6.14	267	27.276	1027.8	78.0	0.091	1442.4	99
125	-1.559	-1.562	0.395	0.301	33.916	5.99	260	27.293	1027.9	76.2	0.110	1442.4	124
150	-1.562	-1.565	0.412	0.299	33.926	6.08	264	27.301	1028.0	75.3	0.129	1442.8	148
175	-1.578	-1.582	0.416	0.284	33.947	6.14	267	27.319	1028.2	73.5	0.148	1443.2	173
200	-1.569	-1.573	0.446	0.295	33.982	6.37	277	27.347	1028.3	70.7	0.166	1443.7	198
225	-1.577	-1.582	0.457	0.288	34.000	6.48	282	27.362	1028.4	69.2	0.183	1444.0	222
250	-1.569	-1.575	0.485	0.297	34.014	6.50	282	27.373	1028.6	67.9	0.200	1444.5	247
275	-1.519	-1.526	0.555	0.348	34.041	6.43	280	27.394	1028.7	65.9	0.217	1445.2	272
300	-1.452	-1.459	0.643	0.417	34.071	6.34	276	27.416	1028.9	63.7	0.233	1446.0	297
325	-1.713	-1.720	0.401	0.157	34.077	6.59	287	27.428	1029.0	62.2	0.249	1445.1	321
350	-1.735	-1.743	0.398	0.135	34.085	6.43	280	27.435	1029.1	61.4	0.264	1445.5	346
375	-1.730	-1.739	0.422	0.140	34.094	6.48	282	27.443	1029.2	60.5	0.280	1445.9	371
400	-1.644	-1.654	0.528	0.227	34.104	6.37	277	27.448	1029.4	59.9	0.295	1446.7	395
425	-1.317	-1.329	0.876	0.555	34.135	5.98	260	27.464	1029.5	58.7	0.310	1448.7	420
450	-0.836	-0.850	1.379	1.040	34.198	5.48	238	27.498	1029.6	56.1	0.324	1451.5	445
475	-0.447	-0.464	1.790	1.433	34.258	5.16	224	27.529	1029.8	53.6	0.338	1453.8	469
500	-0.217	-0.236	2.043	1.667	34.329	5.01	218	27.576	1030.0	49.5	0.351	1455.4	494
550	0.243	0.220	2.548	2.134	34.447	4.73	206	27.648	1030.2	43.4	0.373	1458.5	543
600	0.381	0.355	2.725	2.273	34.481	4.69	204	27.668	1030.5	41.8	0.395	1460.0	593
650	0.473	0.444	2.856	2.367	34.502	4.67	203	27.679	1030.7	40.9	0.415	1461.3	642
700	0.562	0.530	2.984	2.457	34.524	4.66	202	27.692	1031.0	39.9	0.436	1462.5	691
750	0.604	0.569	3.064	2.500	34.532	4.65	202	27.697	1031.2	39.6	0.455	1463.5	741
800	0.626	0.588	3.124	2.522	34.537	4.64	202	27.700	1031.5	39.5	0.475	1464.5	790
850	0.653	0.613	3.190	2.549	34.544	4.64	202	27.703	1031.7	39.2	0.495	1465.4	839
900	0.690	0.646	3.264	2.587	34.554	4.63	201	27.709	1031.9	38.9	0.514	1466.4	888
950	0.705	0.658	3.317	2.602	34.557	4.62	201	27.711	1032.2	38.8	0.534	1467.3	938
1000	0.709	0.659	3.359	2.606	34.557	4.62	201	27.711	1032.4	38.8	0.553	1468.2	987
1006	0.711	0.661	3.366	2.608	34.560	4.61	201	27.713	1032.4	38.7	0.556	1468.3	993


Velocity (cm/s)
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0
20
v
u
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 153
74 0.67 S 118 7.88 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**154D**	2009/02/14	14:10	-74.0187	-117.9006	1203	9	1196	7	10.3	181	-13.1	990.2

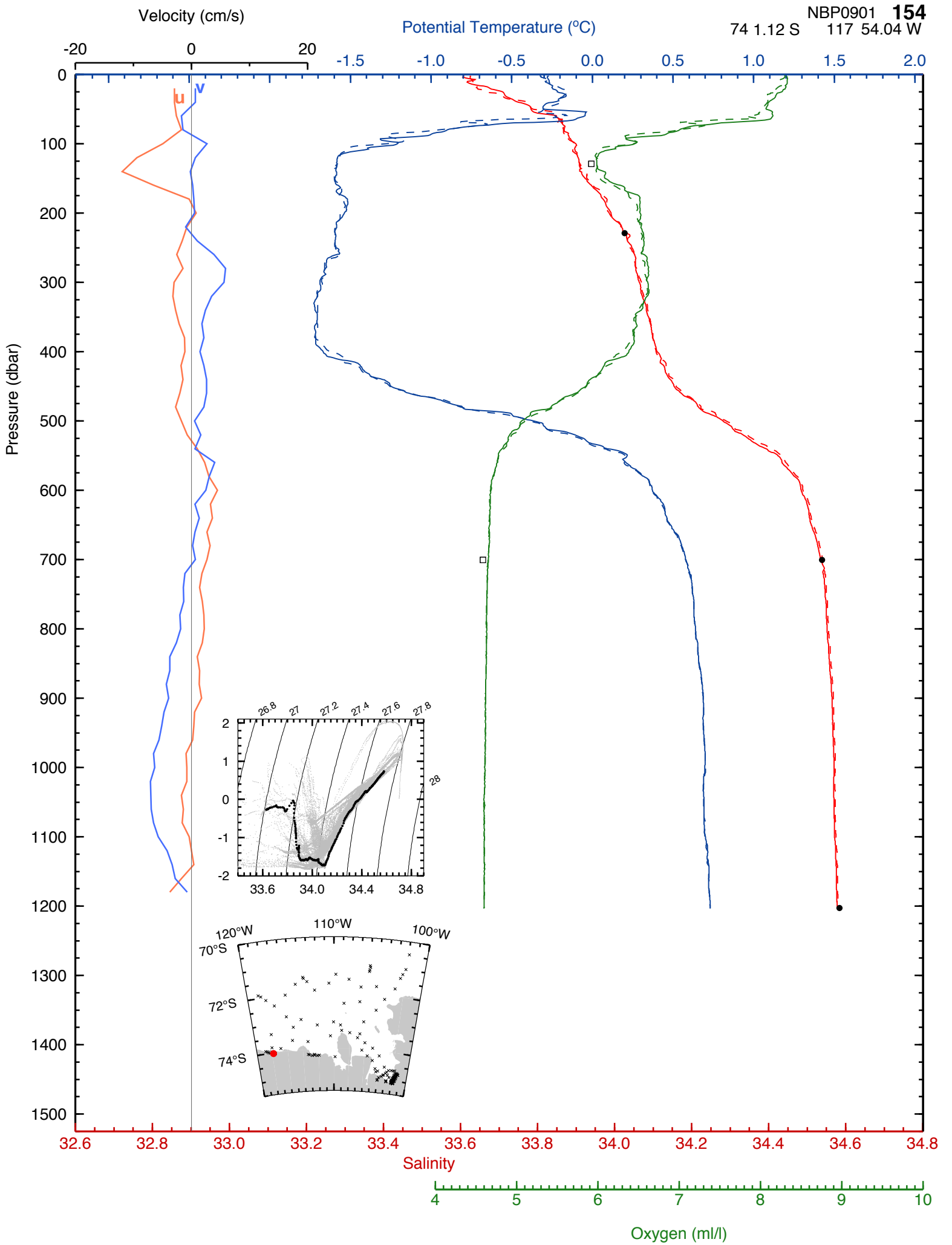
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.271	-0.271	1.575	1.573	33.627	8.32	362	91.6	27.011	1027.0	103.8	0.002	1446.1			2
25	-0.216	-0.217	1.649	1.630	33.665	8.26	359	91.6	27.039	1027.2	101.0	0.026	1446.8	0.030	284	25
50	-0.296	-0.297	1.595	1.557	33.789	8.07	351	92.4	27.143	1027.4	91.1	0.049	1447.0	0.030	261	50
75	-0.751	-0.753	1.163	1.106	33.866	7.14	310	92.6	27.225	1027.6	83.2	0.071	1445.3	0.025	231	74
100	-1.208	-1.210	0.727	0.651	33.894	6.45	281	93.8	27.264	1027.7	79.2	0.092	1443.6	0.054	295	99
125	-1.582	-1.585	0.372	0.278	33.908	5.99	260	96.6	27.288	1027.9	76.8	0.111	1442.3	0.099	273	124
150	-1.594	-1.597	0.380	0.267	33.929	6.09	265	96.5	27.305	1028.0	75.0	0.130	1442.7	0.097	270	148
175	-1.545	-1.549	0.450	0.319	33.971	6.50	283	96.1	27.338	1028.2	71.7	0.148	1443.4	0.026	300	173
200	-1.534	-1.538	0.481	0.330	33.986	6.52	283	95.8	27.349	1028.3	70.5	0.166	1443.8	0.009	87	198
225	-1.591	-1.597	0.444	0.275	34.021	6.54	285	95.9	27.379	1028.5	67.5	0.183	1444.0	0.014	229	222
250	-1.582	-1.588	0.474	0.285	34.041	6.55	285	96.1	27.395	1028.6	65.9	0.200	1444.5	0.029	311	247
275	-1.644	-1.651	0.431	0.224	34.053	6.61	287	96.2	27.407	1028.7	64.6	0.216	1444.6	0.055	338	272
300	-1.683	-1.690	0.412	0.186	34.069	6.61	287	96.4	27.421	1028.9	63.0	0.232	1444.9	0.064	334	297
325	-1.710	-1.717	0.405	0.160	34.080	6.58	286	96.2	27.431	1029.0	62.0	0.248	1445.2	0.046	317	321
350	-1.698	-1.706	0.435	0.172	34.092	6.47	281	96.2	27.440	1029.1	60.9	0.263	1445.6	0.034	311	346
375	-1.708	-1.717	0.445	0.162	34.099	6.44	280	96.5	27.446	1029.2	60.2	0.278	1446.0	0.026	321	371
400	-1.661	-1.670	0.512	0.210	34.108	6.38	277	96.5	27.452	1029.4	59.5	0.293	1446.7	0.020	325	395
425	-1.415	-1.426	0.778	0.458	34.135	6.05	263	96.5	27.467	1029.5	58.3	0.308	1448.3	0.028	319	420
450	-1.235	-1.247	0.978	0.639	34.160	5.85	254	96.5	27.481	1029.6	57.1	0.322	1449.6	0.031	328	445
475	-0.865	-0.880	1.370	1.012	34.215	5.48	238	96.5	27.512	1029.8	54.6	0.336	1451.8	0.034	316	469
500	-0.345	-0.363	1.913	1.536	34.289	5.06	220	96.7	27.551	1029.9	51.7	0.350	1454.8	0.023	293	494
550	0.236	0.213	2.540	2.126	34.431	4.78	208	96.8	27.636	1030.2	44.6	0.374	1458.4	0.018	54	543
600	0.398	0.372	2.743	2.291	34.489	4.69	204	96.7	27.674	1030.5	41.3	0.395	1460.1	0.048	55	593
650	0.514	0.485	2.898	2.409	34.516	4.67	203	96.8	27.688	1030.8	40.1	0.415	1461.5	0.037	71	642
700	0.610	0.578	3.033	2.506	34.539	4.65	202	97.0	27.701	1031.0	39.1	0.435	1462.8	0.030	80	691
750	0.657	0.622	3.119	2.554	34.551	4.63	201	97.0	27.708	1031.2	38.7	0.455	1463.8	0.020	135	741
800	0.678	0.639	3.177	2.575	34.556	4.64	201	97.0	27.711	1031.5	38.5	0.474	1464.7	0.029	132	790
850	0.704	0.662	3.241	2.601	34.562	4.63	201	97.0	27.715	1031.7	38.3	0.493	1465.7	0.038	164	839
900	0.731	0.687	3.306	2.629	34.568	4.62	201	97.0	27.718	1031.9	38.1	0.512	1466.6	0.044	160	888
950	0.737	0.690	3.350	2.634	34.570	4.62	201	97.0	27.720	1032.2	38.1	0.531	1467.5	0.051	175	938
1000	0.746	0.696	3.397	2.644	34.573	4.61	200	97.0	27.721	1032.4	38.0	0.550	1468.4	0.065	188	987
1200	0.792	0.730	3.594	2.691	34.580	4.60	200	97.0	27.725	1033.3	38.1	0.626	1471.9			1184
1203	0.792	0.730	3.596	2.691	34.579	4.59	200	96.9	27.725	1033.4	38.2	0.627	1472.0			1187

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	154B	2009/02/14	14:42	-74.0187	-117.8989	1202	9	1196	7

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
5	-0.316	-0.316	33.609	26.998	8.29	361						14	5
58	-0.048	-0.050	33.837	27.170	8.06	351					-0.683	12	57
129	-1.578	-1.580	33.910	27.289	6.00	261		5.92	257			10	128
229	-1.593	-1.598	34.027	27.384	6.53	284	34.027					8	226
377	-1.700	-1.709	34.100	27.447	6.39	278						6	372
700	0.609	0.577	34.537	27.700	4.65	202	34.539	4.58	199			5,4	692
1202	0.792	0.730	34.580	27.725	4.60	200	34.584				-0.100	2	1186

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	154U	2009/02/14	15:11	-74.0190	-117.8947	1202	9	1196	7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.324	-0.324	1.519	1.518	33.609	8.30	361	26.998	1027.0	104.9	0.001	1445.8	1
25	-0.149	-0.150	1.718	1.699	33.709	8.14	354	27.071	1027.2	98.0	0.026	1447.1	25
50	-0.298	-0.300	1.592	1.555	33.783	8.03	349	27.138	1027.4	91.6	0.049	1446.9	50
75	-0.745	-0.747	1.169	1.112	33.871	7.28	316	27.229	1027.6	82.8	0.071	1445.4	74
100	-1.274	-1.277	0.660	0.585	33.900	6.44	280	27.271	1027.8	78.6	0.091	1443.3	99
125	-1.569	-1.572	0.384	0.290	33.907	6.01	261	27.286	1027.9	76.9	0.111	1442.3	124
150	-1.596	-1.599	0.377	0.264	33.924	6.02	262	27.301	1028.0	75.4	0.130	1442.6	148
175	-1.564	-1.568	0.431	0.299	33.965	6.38	277	27.333	1028.2	72.2	0.148	1443.3	173
200	-1.558	-1.562	0.457	0.306	33.991	6.48	282	27.354	1028.3	70.1	0.166	1443.7	198
225	-1.592	-1.597	0.443	0.274	34.022	6.53	284	27.380	1028.5	67.4	0.183	1444.0	222
250	-1.587	-1.593	0.468	0.280	34.045	6.55	285	27.399	1028.6	65.5	0.200	1444.5	247
275	-1.654	-1.660	0.421	0.214	34.055	6.58	286	27.409	1028.7	64.4	0.216	1444.6	272
300	-1.670	-1.677	0.424	0.198	34.065	6.61	287	27.417	1028.9	63.4	0.232	1444.9	297
325	-1.703	-1.710	0.411	0.167	34.076	6.58	286	27.427	1029.0	62.3	0.248	1445.2	321
350	-1.698	-1.706	0.435	0.172	34.088	6.46	281	27.437	1029.1	61.2	0.263	1445.6	346
375	-1.709	-1.717	0.444	0.162	34.097	6.44	280	27.445	1029.2	60.3	0.278	1446.0	371
400	-1.618	-1.627	0.555	0.254	34.111	6.31	274	27.453	1029.4	59.5	0.293	1446.9	395
425	-1.425	-1.436	0.767	0.447	34.131	6.06	263	27.464	1029.5	58.6	0.308	1448.2	420
450	-1.241	-1.254	0.971	0.632	34.155	5.86	255	27.477	1029.6	57.5	0.323	1449.5	445
475	-0.845	-0.860	1.390	1.033	34.213	5.48	238	27.510	1029.8	54.8	0.337	1451.9	469
500	-0.368	-0.386	1.889	1.513	34.282	5.10	222	27.545	1029.9	52.2	0.350	1454.6	494
550	0.228	0.205	2.532	2.118	34.424	4.78	208	27.630	1030.2	45.0	0.374	1458.4	543
600	0.394	0.368	2.739	2.287	34.485	4.68	203	27.670	1030.5	41.6	0.396	1460.0	593
650	0.510	0.481	2.894	2.405	34.511	4.67	203	27.685	1030.8	40.5	0.416	1461.4	642
700	0.611	0.578	3.033	2.506	34.537	4.65	202	27.700	1031.0	39.3	0.436	1462.8	691
750	0.656	0.620	3.117	2.552	34.547	4.64	201	27.705	1031.2	39.0	0.456	1463.8	741
800	0.675	0.637	3.174	2.572	34.552	4.63	201	27.708	1031.5	38.8	0.475	1464.7	790
850	0.701	0.660	3.238	2.598	34.558	4.62	201	27.712	1031.7	38.6	0.495	1465.7	839
900	0.731	0.687	3.306	2.628	34.565	4.61	201	27.715	1031.9	38.4	0.514	1466.6	888
950	0.737	0.690	3.349	2.634	34.567	4.62	201	27.717	1032.2	38.3	0.533	1467.5	938
1000	0.751	0.701	3.402	2.649	34.570	4.61	200	27.719	1032.4	38.3	0.552	1468.4	987
1200	0.792	0.729	3.594	2.690	34.578	4.60	200	27.724	1033.3	38.3	0.629	1471.9	1184
1203	0.792	0.730	3.596	2.691	34.579	4.59	200	27.725	1033.4	38.2	0.630	1472.0	1187


NBP0901 154
74 1.12 S 117 54.04 W
Velocity (cm/s)
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0
20
u
v
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**155D**	2009/02/14	16:27	-74.0283	-117.6504	640	8	640	6	8.3	232	-11.9	990.3

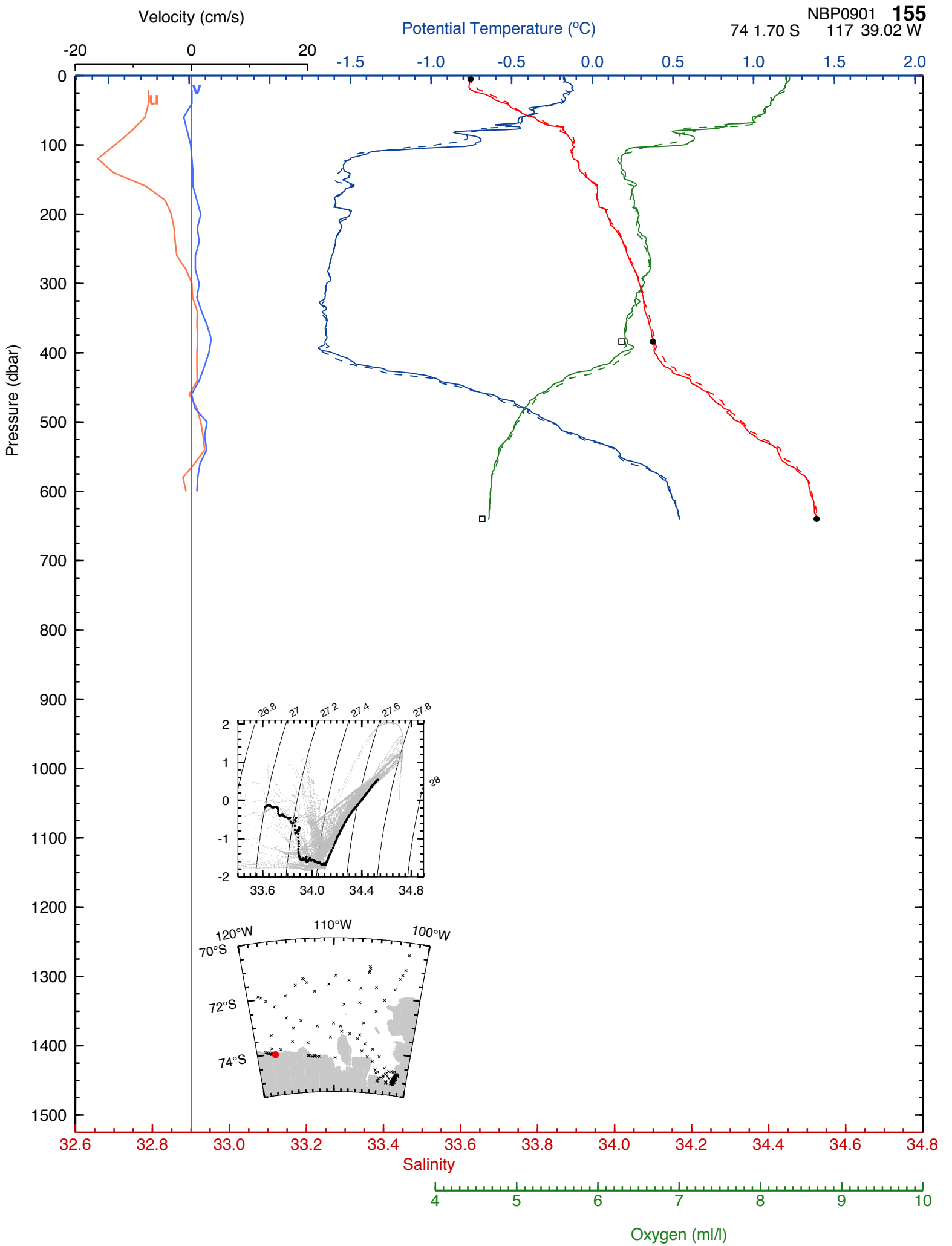
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-0.179	-0.179	1.666	1.664	33.618	8.36	364	91.0	26.999	1027.0	104.8	0.002	1446.5			2
25	-0.161	-0.161	1.704	1.685	33.668	8.23	358	91.3	27.039	1027.2	101.0	0.026	1447.0	0.074	271	25
50	-0.371	-0.373	1.517	1.480	33.751	8.06	351	91.9	27.116	1027.4	93.7	0.050	1446.6	0.077	266	50
75	-0.446	-0.449	1.468	1.411	33.869	7.52	327	90.7	27.215	1027.6	84.2	0.073	1446.8	0.097	265	74
100	-0.732	-0.735	1.202	1.127	33.894	7.05	307	92.0	27.247	1027.7	81.0	0.093	1445.9	0.130	269	99
125	-1.530	-1.533	0.424	0.330	33.905	6.28	273	95.8	27.283	1027.9	77.2	0.113	1442.5	0.156	271	124
150	-1.544	-1.547	0.430	0.317	33.928	6.35	276	96.0	27.303	1028.0	75.2	0.132	1442.9	0.111	272	148
175	-1.588	-1.592	0.406	0.274	33.953	6.43	280	96.0	27.324	1028.2	73.0	0.150	1443.1	0.057	278	173
200	-1.499	-1.504	0.516	0.365	33.982	6.50	283	95.7	27.345	1028.3	70.9	0.168	1444.0	0.039	293	198
225	-1.564	-1.569	0.471	0.301	34.011	6.50	283	95.8	27.370	1028.5	68.4	0.186	1444.1	0.032	289	222
250	-1.596	-1.601	0.459	0.271	34.030	6.61	288	96.1	27.387	1028.6	66.6	0.203	1444.4	0.029	292	247
275	-1.623	-1.630	0.452	0.244	34.049	6.64	289	96.1	27.403	1028.7	64.9	0.219	1444.7	0.017	299	272
300	-1.641	-1.648	0.453	0.227	34.066	6.57	285	96.3	27.417	1028.9	63.4	0.235	1445.1	0.013	57	297
325	-1.675	-1.682	0.440	0.195	34.077	6.52	283	96.5	27.427	1029.0	62.3	0.251	1445.3	0.010	14	321
350	-1.639	-1.647	0.494	0.231	34.091	6.35	276	96.5	27.438	1029.1	61.2	0.266	1445.9	0.022	27	346
375	-1.639	-1.648	0.514	0.232	34.102	6.33	275	96.0	27.447	1029.2	60.2	0.281	1446.3	0.032	18	371
400	-1.603	-1.613	0.570	0.269	34.115	6.28	273	96.2	27.456	1029.4	59.2	0.296	1446.9	0.032	17	395
425	-1.268	-1.280	0.926	0.606	34.159	5.91	257	96.0	27.482	1029.5	57.1	0.311	1449.0	0.024	22	420
450	-0.768	-0.782	1.449	1.110	34.231	5.41	235	96.3	27.521	1029.7	54.0	0.325	1451.9	0.013	93	445
475	-0.449	-0.466	1.790	1.433	34.286	5.14	223	96.5	27.552	1029.8	51.4	0.338	1453.8	0.007	170	469
500	-0.232	-0.251	2.028	1.652	34.332	4.99	217	96.5	27.579	1030.0	49.2	0.351	1455.3	0.025	38	494
550	0.196	0.173	2.500	2.086	34.436	4.77	207	96.7	27.641	1030.2	44.0	0.374	1458.3	0.032	38	543
600	0.505	0.478	2.851	2.399	34.510	4.68	204	96.8	27.684	1030.5	40.5	0.394	1460.6	0.015	312	593
640	0.570	0.541	2.947	2.465	34.527	4.66	202	96.7	27.694	1030.7	39.7	0.410	1461.6			632

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	155B	2009/02/14	16:44	-74.0287	-117.6489	640	8	640	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
5	-0.175	-0.175	33.625	27.005	8.32	362	33.627					11	5
74	-0.456	-0.458	33.866	27.212	7.53	327						10	74
191	-1.595	-1.599	33.962	27.332	6.42	279						8	189
384	-1.640	-1.649	34.103	27.447	6.33	275	34.099	6.29	273			6	379
482	-0.391	-0.408	34.293	27.555	5.09	221						3	477
640	0.571	0.541	34.527	27.694	4.65	202	34.525	4.57	199			1	632

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	155U	2009/02/14	17:02	-74.0280	-117.6514	640	8	640	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-0.179	-0.179	1.665	1.664	33.624	8.33	362	27.004	1027.0	104.4	0.001	1446.5	1
25	-0.143	-0.144	1.721	1.702	33.651	8.25	359	27.024	1027.1	102.4	0.026	1447.1	25
50	-0.359	-0.360	1.529	1.492	33.747	8.03	349	27.112	1027.4	94.0	0.051	1446.6	50
75	-0.579	-0.581	1.335	1.279	33.866	7.30	317	27.218	1027.6	83.9	0.073	1446.2	74
100	-0.966	-0.969	0.968	0.893	33.892	6.74	293	27.254	1027.7	80.3	0.094	1444.8	99
125	-1.546	-1.549	0.407	0.313	33.907	6.26	272	27.286	1027.9	77.0	0.113	1442.5	124
150	-1.594	-1.597	0.380	0.267	33.934	6.32	275	27.309	1028.0	74.6	0.132	1442.7	148
175	-1.578	-1.582	0.416	0.285	33.955	6.41	278	27.325	1028.2	72.9	0.151	1443.2	173
200	-1.501	-1.506	0.513	0.363	33.980	6.48	282	27.344	1028.3	71.0	0.169	1444.0	198
225	-1.560	-1.565	0.474	0.305	34.006	6.49	282	27.366	1028.4	68.7	0.186	1444.1	222
250	-1.597	-1.603	0.458	0.269	34.029	6.59	287	27.386	1028.6	66.7	0.203	1444.4	247
275	-1.625	-1.631	0.450	0.243	34.047	6.63	288	27.402	1028.7	65.1	0.220	1444.7	272
300	-1.634	-1.641	0.460	0.234	34.064	6.54	284	27.416	1028.9	63.6	0.236	1445.1	297
325	-1.655	-1.663	0.459	0.214	34.075	6.46	281	27.425	1029.0	62.5	0.251	1445.4	321
350	-1.643	-1.651	0.490	0.227	34.087	6.38	277	27.434	1029.1	61.6	0.267	1445.9	346
375	-1.643	-1.652	0.510	0.228	34.096	6.33	275	27.442	1029.2	60.6	0.282	1446.3	371
400	-1.653	-1.662	0.519	0.218	34.104	6.39	278	27.449	1029.4	59.9	0.297	1446.7	395
425	-1.313	-1.324	0.881	0.561	34.148	5.99	261	27.474	1029.5	57.8	0.312	1448.8	420
450	-0.789	-0.803	1.427	1.088	34.222	5.46	237	27.515	1029.7	54.5	0.326	1451.8	445
475	-0.479	-0.496	1.759	1.402	34.274	5.17	225	27.544	1029.8	52.2	0.339	1453.7	469
500	-0.242	-0.260	2.018	1.642	34.325	5.01	218	27.574	1029.9	49.6	0.352	1455.3	494
550	0.187	0.165	2.491	2.077	34.430	4.78	208	27.637	1030.2	44.3	0.376	1458.2	543
600	0.509	0.482	2.855	2.403	34.508	4.68	203	27.682	1030.5	40.7	0.397	1460.6	593
640	0.570	0.541	2.947	2.465	34.527	4.66	202	27.694	1030.7	39.7	0.413	1461.6	632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Velocity (cm/s)
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20
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v
Potential Temperature (°C)
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-1.0
-0.5
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Pressure (dbar)
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100
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120°W
110°W
100°W
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74°S
32.6
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33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
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7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**156D**	2009/02/15	04:57	-72.1119	-117.9226	505	8	507	4	3.1	289	-3.2	990.5

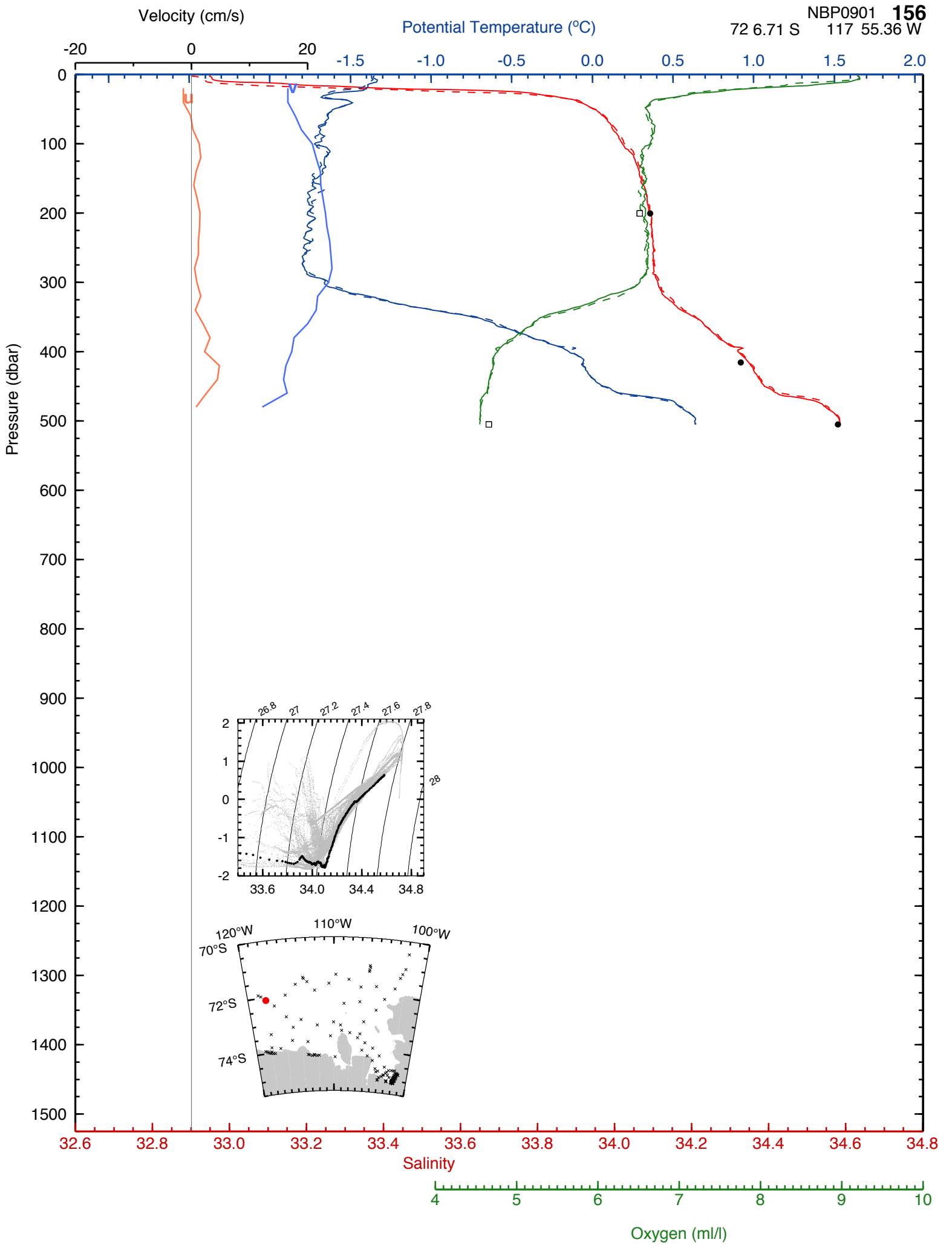
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
2	-1.351	-1.351	0.453	0.452	32.900	9.19	400	86.9	26.462	1026.5	155.7	0.003	1440.0			2
25	-1.522	-1.523	0.338	0.319	33.583	7.46	324	83.7	27.021	1027.1	102.6	0.035	1440.5	0.167	355	25
50	-1.604	-1.605	0.296	0.259	33.950	6.60	287	90.7	27.322	1027.6	74.0	0.056	1441.0	0.173	357	50
75	-1.697	-1.699	0.224	0.167	33.997	6.70	291	94.3	27.363	1027.7	69.9	0.073	1441.0	0.186	106	74
100	-1.720	-1.722	0.222	0.146	34.026	6.64	289	95.8	27.387	1027.9	67.4	0.091	1441.4	0.207	3	99
125	-1.659	-1.662	0.303	0.209	34.059	6.54	284	96.0	27.412	1028.0	65.0	0.107	1442.1	0.217	4	124
150	-1.711	-1.714	0.271	0.159	34.071	6.60	287	96.2	27.424	1028.1	63.7	0.123	1442.3	0.222	2	148
175	-1.749	-1.753	0.252	0.120	34.084	6.57	286	96.4	27.435	1028.3	62.4	0.139	1442.5	0.226	2	173
200	-1.762	-1.767	0.258	0.108	34.093	6.59	286	96.5	27.442	1028.4	61.6	0.154	1442.9	0.231	4	198
225	-1.742	-1.746	0.298	0.129	34.098	6.61	287	96.6	27.446	1028.5	61.1	0.170	1443.4	0.234	3	222
250	-1.786	-1.792	0.273	0.085	34.101	6.62	288	96.8	27.450	1028.7	60.6	0.185	1443.6	0.239	3	247
275	-1.788	-1.794	0.290	0.083	34.104	6.61	287	96.9	27.453	1028.8	60.2	0.200	1444.0	0.241	2	272
300	-1.652	-1.659	0.445	0.219	34.114	6.51	283	96.9	27.457	1028.9	59.7	0.215	1445.1	0.237	2	297
325	-1.285	-1.293	0.833	0.589	34.152	5.99	260	96.9	27.477	1029.0	58.1	0.230	1447.3	0.218	4	321
350	-0.727	-0.738	1.414	1.150	34.211	5.31	231	96.8	27.504	1029.2	56.0	0.244	1450.4	0.211	3	346
375	-0.410	-0.423	1.752	1.470	34.267	5.01	218	96.7	27.535	1029.3	53.3	0.258	1452.4	0.190	8	371
400	-0.131	-0.146	2.054	1.752	34.322	4.77	207	96.9	27.566	1029.5	50.6	0.271	1454.1	0.176	8	395
425	-0.026	-0.043	2.179	1.859	34.363	4.70	204	96.6	27.594	1029.6	48.1	0.283	1455.1	0.170	16	420
450	0.090	0.073	2.317	1.978	34.400	4.65	202	96.6	27.618	1029.8	46.0	0.295	1456.1	0.166	14	445
475	0.539	0.518	2.793	2.435	34.543	4.56	198	96.7	27.708	1030.0	38.1	0.306	1458.7	0.146	7	469
500	0.657	0.634	2.931	2.555	34.583	4.55	198	96.7	27.733	1030.1	36.0	0.315	1459.7			494
505	0.658	0.635	2.937	2.557	34.583	4.55	198	96.7	27.733	1030.1	36.0	0.317	1459.8			499

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	156B	2009/02/15	05:10	-72.1112	-117.9220	505	8	507	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.373	-1.374	32.972	26.521	8.89	387						9	10
200	-1.722	-1.726	34.094	27.442	6.55	285	34.092	6.51	283			7	198
416	-0.049	-0.064	34.341	27.577	4.71	205	34.327					4	411
505	0.657	0.634	34.582	27.733	4.55	198	34.580	4.66	202			2	499

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	156U	2009/02/15	05:25	-72.1103	-117.9216	505	8	507	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.371	-1.371	0.435	0.435	32.950	9.19	400	26.504	1026.5	151.8	0.002	1440.0	1
25	-1.624	-1.624	0.246	0.227	33.751	7.26	316	27.161	1027.3	89.4	0.034	1440.2	25
50	-1.595	-1.596	0.304	0.267	33.947	6.57	285	27.319	1027.6	74.2	0.053	1441.1	50
75	-1.678	-1.679	0.243	0.187	33.993	6.64	288	27.359	1027.7	70.3	0.071	1441.1	74
100	-1.690	-1.692	0.252	0.176	34.020	6.66	289	27.382	1027.9	68.0	0.089	1441.5	99
125	-1.682	-1.684	0.281	0.186	34.054	6.57	286	27.409	1028.0	65.3	0.105	1442.0	124
150	-1.719	-1.722	0.263	0.150	34.069	6.55	285	27.422	1028.1	63.9	0.121	1442.2	148
175	-1.694	-1.698	0.307	0.176	34.083	6.53	284	27.433	1028.3	62.7	0.137	1442.8	173
200	-1.732	-1.737	0.289	0.138	34.093	6.56	285	27.442	1028.4	61.7	0.153	1443.0	198
225	-1.744	-1.749	0.296	0.127	34.097	6.57	286	27.445	1028.5	61.2	0.168	1443.4	222
250	-1.729	-1.734	0.330	0.142	34.101	6.58	286	27.449	1028.7	60.7	0.183	1443.9	247
275	-1.790	-1.796	0.288	0.081	34.101	6.60	287	27.450	1028.8	60.4	0.199	1444.0	272
300	-1.630	-1.637	0.467	0.241	34.112	6.50	283	27.455	1028.9	59.9	0.214	1445.2	297
325	-1.313	-1.322	0.805	0.560	34.142	6.09	265	27.469	1029.0	58.8	0.229	1447.1	321
350	-0.700	-0.711	1.440	1.177	34.208	5.37	233	27.500	1029.2	56.4	0.243	1450.5	346
375	-0.414	-0.427	1.749	1.466	34.261	5.05	219	27.531	1029.3	53.7	0.257	1452.3	371
400	-0.120	-0.135	2.065	1.764	34.320	4.77	207	27.564	1029.5	50.8	0.270	1454.2	395
425	-0.025	-0.041	2.181	1.861	34.360	4.71	205	27.592	1029.6	48.3	0.282	1455.1	420
450	0.080	0.062	2.306	1.967	34.390	4.66	202	27.611	1029.7	46.7	0.294	1456.0	445
475	0.534	0.513	2.788	2.430	34.537	4.57	199	27.704	1029.9	38.6	0.305	1458.7	469
500	0.669	0.646	2.944	2.567	34.584	4.55	198	27.734	1030.1	35.9	0.314	1459.8	494
505	0.658	0.635	2.937	2.557	34.583	4.55	198	27.733	1030.1	36.0	0.316	1459.8	499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0
20
u
v
Potential Temperature (°C)
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-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
NBP0901 156
72 6.71 S 117 55.36 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**157D**	2009/02/15	08:30	-71.9527	-118.4407	593	7	593	3	5.3	305	-2.8	990.6

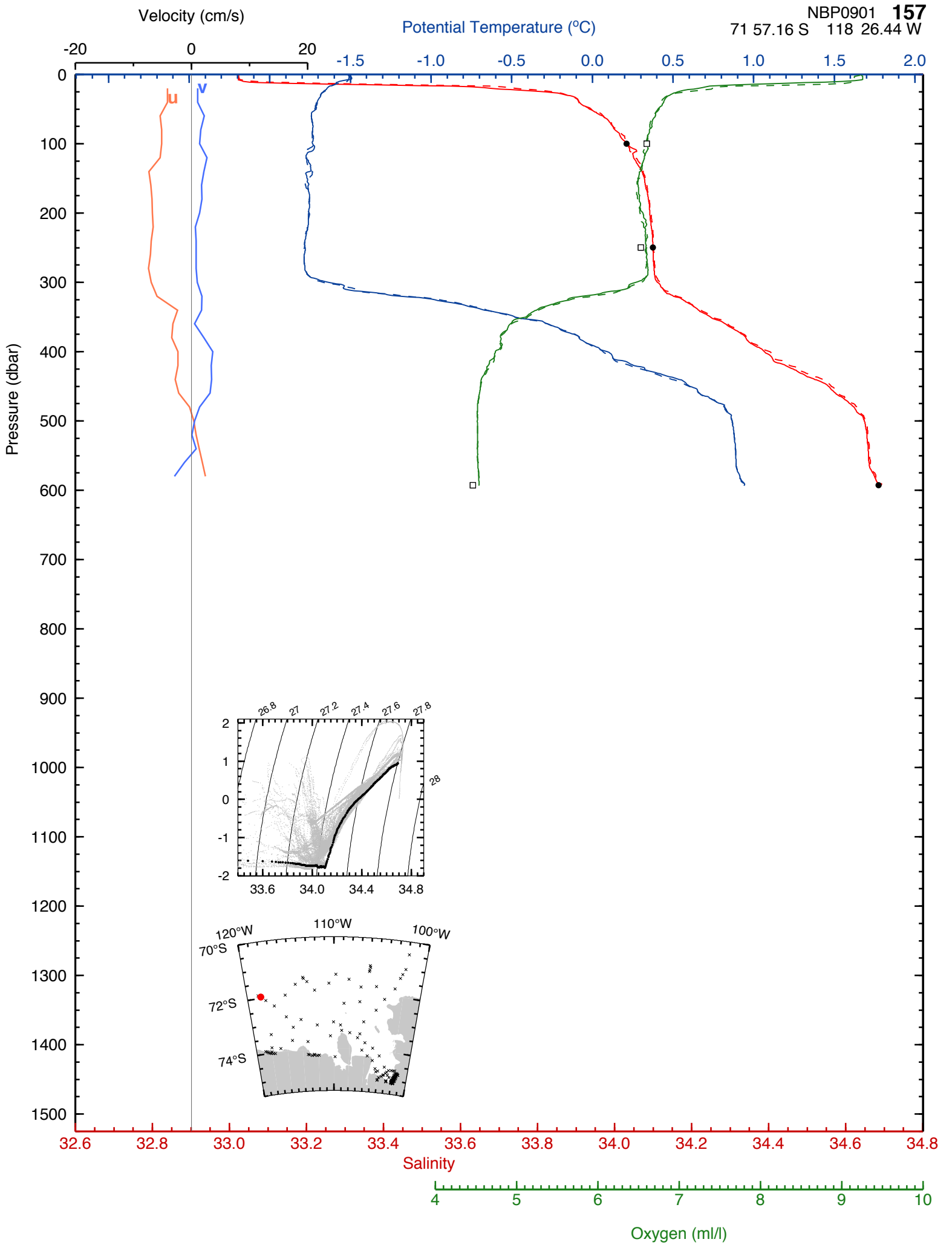
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.516	-1.516	0.294	0.293	33.024	9.24	402	81.7	26.568	1026.6	145.8	0.001	1439.4			1
25	-1.670	-1.671	0.204	0.186	33.840	6.98	304	86.0	27.234	1027.4	82.4	0.030	1440.2	0.042	285	25
50	-1.713	-1.714	0.186	0.149	33.939	6.75	293	93.2	27.316	1027.6	74.5	0.050	1440.5	0.050	288	50
75	-1.732	-1.733	0.189	0.133	33.995	6.67	290	95.8	27.362	1027.7	70.0	0.067	1440.9	0.054	289	74
100	-1.733	-1.735	0.209	0.134	34.031	6.61	287	96.1	27.391	1027.9	67.1	0.085	1441.3	0.053	286	99
125	-1.758	-1.761	0.204	0.110	34.061	6.56	285	96.3	27.417	1028.0	64.5	0.101	1441.7	0.063	295	124
150	-1.765	-1.768	0.218	0.105	34.081	6.49	282	96.6	27.433	1028.2	62.8	0.117	1442.0	0.074	285	148
175	-1.750	-1.754	0.251	0.120	34.089	6.51	283	96.8	27.439	1028.3	62.1	0.132	1442.5	0.071	284	173
200	-1.753	-1.757	0.268	0.118	34.094	6.55	285	96.9	27.443	1028.4	61.5	0.148	1442.9	0.068	282	198
225	-1.764	-1.768	0.276	0.107	34.099	6.58	286	96.9	27.448	1028.5	60.9	0.163	1443.3	0.066	276	222
250	-1.776	-1.781	0.283	0.095	34.102	6.59	286	96.9	27.450	1028.7	60.5	0.178	1443.7	0.070	277	247
275	-1.779	-1.785	0.299	0.092	34.104	6.61	287	96.9	27.452	1028.8	60.2	0.193	1444.0	0.073	276	272
300	-1.630	-1.637	0.467	0.241	34.118	6.47	281	97.0	27.459	1028.9	59.5	0.208	1445.2	0.071	278	297
325	-0.967	-0.977	1.153	0.908	34.181	5.63	245	97.0	27.489	1029.0	57.2	0.223	1448.8	0.060	288	321
350	-0.467	-0.479	1.676	1.412	34.253	5.11	222	97.0	27.526	1029.2	54.1	0.237	1451.7	0.030	297	346
375	-0.101	-0.115	2.066	1.783	34.336	4.81	209	97.0	27.576	1029.4	49.8	0.250	1453.9	0.036	291	371
400	0.106	0.090	2.295	1.994	34.403	4.74	206	97.0	27.619	1029.5	45.9	0.262	1455.3	0.043	322	395
425	0.343	0.326	2.555	2.235	34.474	4.63	201	96.9	27.664	1029.7	42.0	0.273	1456.9	0.041	326	420
450	0.624	0.604	2.860	2.521	34.563	4.56	198	97.0	27.719	1029.8	37.2	0.283	1458.7	0.044	322	445
475	0.818	0.796	3.076	2.718	34.620	4.52	196	97.0	27.753	1030.0	34.3	0.292	1460.1	0.027	336	469
500	0.890	0.866	3.169	2.792	34.652	4.52	196	97.0	27.774	1030.1	32.5	0.300	1460.9	0.008	130	494
550	0.914	0.888	3.231	2.817	34.662	4.52	196	96.9	27.781	1030.4	32.0	0.316	1461.8	0.016	69	544
593	0.968	0.940	3.320	2.873	34.691	4.54	197	97.0	27.801	1030.6	30.3	0.330	1462.8			586

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	157B	2009/02/15	08:45	-71.9526	-118.4404	593	7	593	3

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
100	-1.728	-1.730	34.035	27.395	6.59	286	34.031	6.60	287	2207.8		8	99
250	-1.782	-1.787	34.102	27.450	6.59	286	34.099	6.53	284	2211.8		6,4	247
593	0.963	0.934	34.689	27.800	4.54	197	34.685	4.46	194	2247.5	-0.042	2	586

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	157U	2009/02/15	09:02	-71.9526	-118.4405	593	7	593	3

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.509	-1.509	0.301	0.300	33.025	9.23	402	26.568	1026.6	145.8	0.001	1439.4	1
25	-1.665	-1.666	0.208	0.189	33.820	7.09	308	27.218	1027.3	83.9	0.031	1440.1	25
50	-1.723	-1.724	0.176	0.138	33.936	6.74	293	27.314	1027.6	74.7	0.050	1440.4	50
75	-1.733	-1.735	0.188	0.131	33.996	6.64	289	27.363	1027.7	69.9	0.068	1440.9	74
100	-1.726	-1.728	0.216	0.141	34.033	6.59	286	27.393	1027.9	66.9	0.086	1441.4	99
125	-1.768	-1.770	0.194	0.100	34.055	6.56	285	27.412	1028.0	64.9	0.102	1441.6	124
150	-1.758	-1.761	0.224	0.111	34.078	6.51	283	27.430	1028.2	63.1	0.118	1442.1	148
175	-1.748	-1.752	0.253	0.122	34.086	6.48	282	27.437	1028.3	62.3	0.134	1442.5	173
200	-1.756	-1.760	0.265	0.115	34.092	6.52	283	27.441	1028.4	61.7	0.149	1442.9	198
225	-1.765	-1.770	0.275	0.106	34.097	6.58	286	27.446	1028.5	61.1	0.164	1443.3	222
250	-1.781	-1.786	0.278	0.090	34.101	6.60	287	27.450	1028.7	60.6	0.180	1443.6	247
275	-1.778	-1.784	0.300	0.093	34.102	6.60	287	27.450	1028.8	60.4	0.195	1444.0	272
300	-1.663	-1.669	0.435	0.209	34.112	6.54	284	27.455	1028.9	59.8	0.210	1445.0	297
325	-0.936	-0.945	1.184	0.939	34.178	5.66	246	27.485	1029.0	57.6	0.225	1449.0	321
350	-0.467	-0.479	1.676	1.412	34.249	5.13	223	27.523	1029.2	54.4	0.239	1451.7	346
375	-0.095	-0.109	2.072	1.789	34.332	4.83	210	27.572	1029.4	50.1	0.252	1453.9	371
400	0.081	0.065	2.269	1.968	34.389	4.79	208	27.610	1029.5	46.8	0.264	1455.2	395
425	0.321	0.303	2.533	2.213	34.464	4.65	202	27.657	1029.7	42.6	0.275	1456.8	420
450	0.620	0.600	2.856	2.517	34.556	4.56	198	27.714	1029.8	37.7	0.285	1458.7	445
475	0.808	0.787	3.066	2.708	34.611	4.53	197	27.746	1030.0	34.9	0.294	1460.0	469
500	0.889	0.866	3.168	2.792	34.649	4.52	196	27.772	1030.1	32.7	0.303	1460.9	494
550	0.914	0.888	3.231	2.817	34.659	4.52	196	27.779	1030.4	32.2	0.319	1461.8	544
593	0.968	0.940	3.320	2.873	34.691	4.54	197	27.801	1030.6	30.3	0.332	1462.8	586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20
u
v
Potential Temperature (°C)
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-0.5
0.0
0.5
1.0
1.5
2.0
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
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-1
-2
33.6
34.0
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120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**158D**	2009/02/15	10:23	-71.9019	-118.7205	1113	7	1105	4	3.6	289	-2.8	991.0

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
1	-1.551	-1.551	0.259	0.258	33.023	9.08	395	80.0	26.568	1026.6	145.8	0.001	1439.2			1
25	-1.633	-1.633	0.232	0.213	33.658	7.38	321	81.0	27.085	1027.2	96.5	0.033	1440.1	0.038	171	25
50	-1.733	-1.734	0.167	0.129	33.949	6.73	292	93.4	27.325	1027.6	73.7	0.053	1440.4	0.035	166	50
75	-1.733	-1.734	0.189	0.133	34.003	6.66	290	95.9	27.369	1027.7	69.4	0.071	1440.9	0.036	160	74
100	-1.712	-1.714	0.231	0.155	34.044	6.59	286	96.3	27.402	1027.9	66.1	0.088	1441.4	0.040	146	99
125	-1.768	-1.770	0.195	0.101	34.068	6.52	284	96.4	27.422	1028.0	64.0	0.104	1441.6	0.032	154	124
150	-1.776	-1.779	0.207	0.094	34.082	6.48	282	96.7	27.434	1028.2	62.7	0.120	1442.0	0.034	174	148
175	-1.747	-1.750	0.255	0.123	34.091	6.53	284	96.8	27.441	1028.3	61.9	0.136	1442.5	0.026	197	173
200	-1.740	-1.744	0.281	0.130	34.099	6.59	286	96.9	27.447	1028.4	61.2	0.151	1443.0	0.020	212	198
225	-1.767	-1.772	0.273	0.104	34.102	6.60	287	97.0	27.450	1028.5	60.7	0.166	1443.3	0.024	195	222
250	-1.790	-1.795	0.269	0.081	34.103	6.62	288	97.0	27.452	1028.7	60.4	0.181	1443.6	0.025	204	247
275	-1.690	-1.697	0.388	0.181	34.112	6.56	285	97.0	27.456	1028.8	59.9	0.196	1444.5	0.027	204	272
300	-1.312	-1.320	0.787	0.561	34.146	6.05	263	97.0	27.472	1028.9	58.6	0.211	1446.7	0.015	168	297
325	-0.686	-0.696	1.437	1.192	34.221	5.27	229	97.0	27.510	1029.1	55.5	0.226	1450.2	0.009	163	321
350	-0.293	-0.305	1.852	1.589	34.290	4.95	215	97.0	27.549	1029.2	52.2	0.239	1452.5	0.003	266	346
375	-0.107	-0.121	2.060	1.777	34.339	4.84	210	97.0	27.579	1029.4	49.5	0.252	1453.9	0.008	92	371
400	0.197	0.181	2.387	2.086	34.428	4.71	205	97.0	27.635	1029.5	44.6	0.264	1455.8	0.021	37	395
425	0.650	0.631	2.865	2.545	34.535	4.58	199	97.0	27.695	1029.7	39.5	0.274	1458.4	0.043	30	420
450	0.856	0.835	3.095	2.756	34.609	4.50	195	97.0	27.742	1029.9	35.4	0.283	1459.8	0.059	37	445
475	0.954	0.931	3.214	2.856	34.646	4.49	195	97.0	27.765	1030.0	33.4	0.292	1460.8	0.043	33	469
500	1.124	1.099	3.404	3.027	34.677	4.43	193	97.1	27.779	1030.1	32.3	0.300	1462.0	0.024	29	494
550	1.294	1.266	3.614	3.200	34.716	4.40	191	97.2	27.799	1030.4	30.9	0.316	1463.6	0.022	290	544
600	1.262	1.232	3.620	3.169	34.724	4.43	192	97.2	27.808	1030.6	30.2	0.331	1464.3	0.027	334	593
650	1.244	1.211	3.640	3.151	34.728	4.44	193	97.3	27.812	1030.9	29.9	0.346	1465.0	0.056	333	642
700	1.172	1.136	3.606	3.079	34.725	4.48	195	97.2	27.815	1031.1	29.6	0.361	1465.5	0.036	152	692
750	1.072	1.034	3.543	2.978	34.721	4.52	196	97.2	27.819	1031.3	29.2	0.376	1465.9	0.042	8	741
800	1.009	0.969	3.518	2.916	34.720	4.55	198	97.2	27.823	1031.6	28.8	0.390	1466.5	0.055	6	790
850	0.962	0.919	3.508	2.868	34.720	4.58	199	97.3	27.826	1031.8	28.6	0.405	1467.1	0.032	4	839
900	0.921	0.875	3.505	2.827	34.719	4.60	200	97.3	27.828	1032.0	28.4	0.419	1467.7	0.018	204	889
950	0.882	0.834	3.504	2.788	34.718	4.63	201	97.3	27.829	1032.3	28.3	0.433	1468.3	0.026	315	938
1000	0.845	0.794	3.504	2.751	34.717	4.64	202	97.2	27.831	1032.5	28.1	0.447	1469.0	0.016	325	987
1113	0.786	0.729	3.530	2.692	34.713	4.68	203	97.1	27.832	1033.0	28.1	0.479	1470.6			1098

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	158B	2009/02/15	10:50	-71.9024	-118.7179	1113	7	1105	4

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
10	-1.562	-1.562	33.027	26.571	9.03	393				2068.6	-0.401	8	10
247	-1.785	-1.790	34.102	27.451	6.60	287	34.099	6.54	284	2213.2		6	244
600	1.263	1.232	34.722	27.806	4.42	192	34.723	4.35	189	2259.1	0.000	4	593
1113	0.786	0.729	34.713	27.832	4.68	203	34.713			2259.8		2	1098

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	158U	2009/02/15	11:14	-71.9029	-118.7150	1113	7	1105	4

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	-1.550	-1.550	0.260	0.259	33.020	9.02	392	26.565	1026.6	146.0	0.001	1439.2	1
25	-1.654	-1.654	0.218	0.199	33.787	7.05	307	27.191	1027.3	86.5	0.031	1440.2	25
50	-1.733	-1.734	0.167	0.129	33.946	6.70	291	27.322	1027.6	73.9	0.051	1440.4	50
75	-1.729	-1.730	0.192	0.136	34.000	6.61	287	27.366	1027.7	69.6	0.069	1440.9	74
100	-1.710	-1.712	0.232	0.157	34.039	6.58	286	27.397	1027.9	66.5	0.086	1441.4	99
125	-1.770	-1.773	0.192	0.098	34.063	6.51	283	27.419	1028.0	64.3	0.103	1441.6	124
150	-1.776	-1.779	0.207	0.094	34.076	6.47	281	27.429	1028.2	63.2	0.118	1442.0	148
175	-1.730	-1.734	0.272	0.140	34.090	6.52	283	27.439	1028.3	62.1	0.134	1442.6	173
200	-1.744	-1.748	0.277	0.127	34.095	6.56	285	27.444	1028.4	61.5	0.150	1443.0	198
225	-1.786	-1.790	0.254	0.085	34.098	6.62	288	27.447	1028.5	61.0	0.165	1443.2	222
250	-1.780	-1.786	0.279	0.091	34.102	6.60	287	27.451	1028.7	60.5	0.180	1443.6	247
275	-1.674	-1.680	0.405	0.197	34.107	6.55	285	27.452	1028.8	60.3	0.195	1444.5	272
300	-1.300	-1.307	0.800	0.574	34.141	6.10	265	27.468	1028.9	59.0	0.210	1446.8	297
325	-0.660	-0.670	1.462	1.218	34.212	5.37	233	27.502	1029.1	56.3	0.224	1450.3	321
350	-0.325	-0.337	1.820	1.556	34.276	4.99	217	27.539	1029.2	53.1	0.238	1452.4	346
375	-0.118	-0.132	2.048	1.766	34.331	4.85	211	27.573	1029.4	50.1	0.251	1453.8	371
400	0.156	0.140	2.345	2.044	34.407	4.72	205	27.620	1029.5	45.9	0.263	1455.6	395
425	0.562	0.543	2.776	2.456	34.514	4.63	201	27.684	1029.7	40.4	0.274	1458.0	420
450	0.863	0.842	3.101	2.762	34.604	4.50	196	27.738	1029.9	35.8	0.283	1459.9	445
475	0.903	0.881	3.162	2.805	34.635	4.48	195	27.760	1030.0	33.8	0.292	1460.5	469
500	1.146	1.121	3.426	3.049	34.673	4.44	193	27.774	1030.1	32.8	0.300	1462.1	494
550	1.290	1.262	3.610	3.196	34.711	4.39	191	27.795	1030.4	31.3	0.316	1463.6	544
600	1.263	1.232	3.621	3.170	34.722	4.42	192	27.806	1030.6	30.3	0.332	1464.3	593
650	1.242	1.208	3.637	3.148	34.724	4.44	193	27.810	1030.9	30.1	0.347	1465.0	642
700	1.169	1.133	3.603	3.076	34.722	4.47	194	27.813	1031.1	29.8	0.362	1465.5	692
750	1.071	1.033	3.542	2.977	34.718	4.52	196	27.817	1031.3	29.4	0.377	1465.9	741
800	1.012	0.972	3.521	2.918	34.717	4.55	198	27.820	1031.6	29.1	0.391	1466.5	790
850	0.963	0.920	3.509	2.869	34.717	4.58	199	27.823	1031.8	28.8	0.406	1467.1	839
900	0.921	0.875	3.505	2.827	34.716	4.61	200	27.825	1032.0	28.7	0.420	1467.7	889
950	0.883	0.835	3.505	2.789	34.715	4.63	201	27.827	1032.3	28.5	0.434	1468.3	938
1000	0.845	0.794	3.504	2.751	34.713	4.65	202	27.828	1032.5	28.4	0.449	1469.0	987
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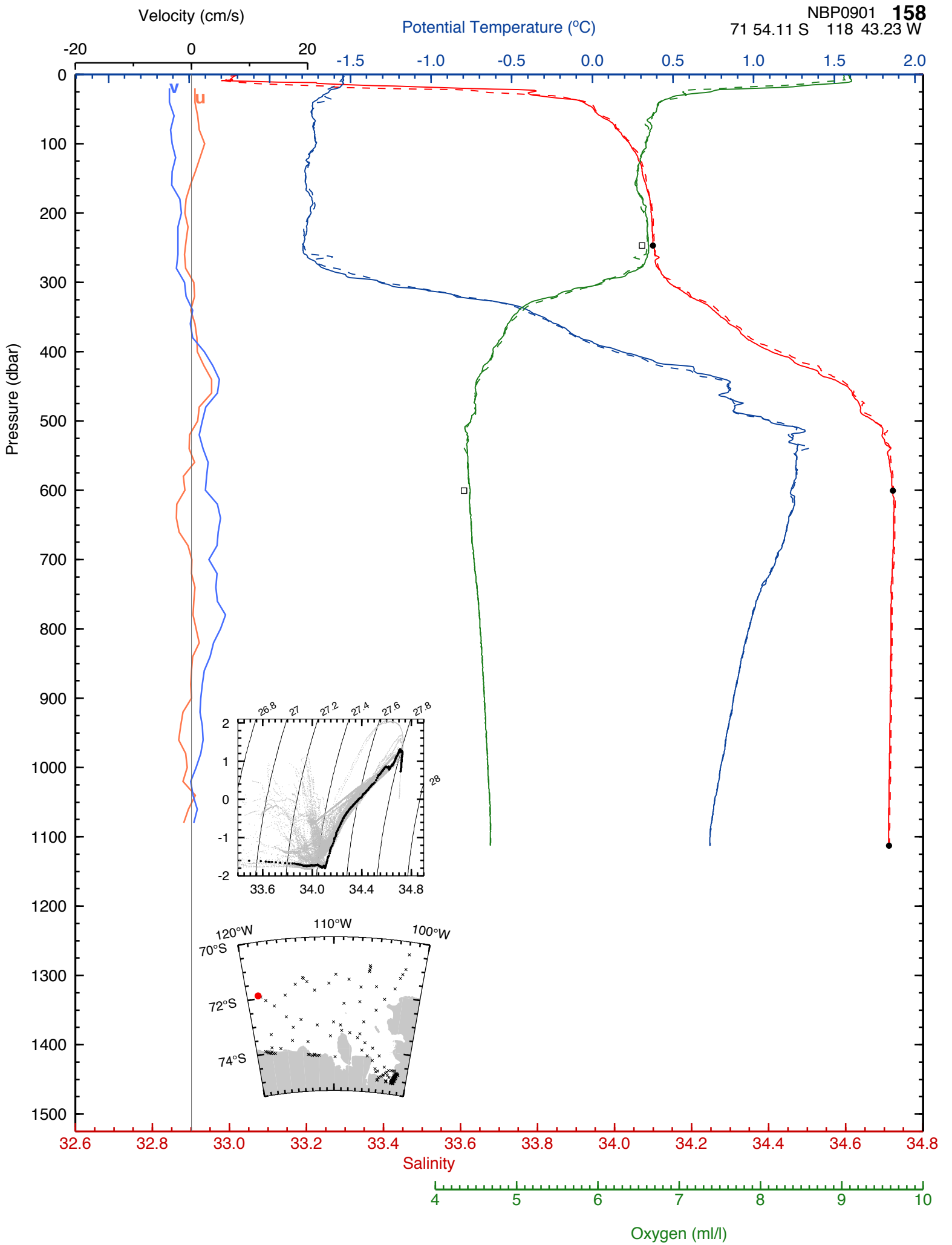
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Potential Temperature (°C)
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Pressure (dbar)
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300
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600
700
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1000
1100
1200
1300
1400
1500
26.8
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27.2
27.4
27.6
27.8
28
2
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-1
-2
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34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
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33.0
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33.8
34.0
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34.6
34.8
Salinity
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7
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9
10
Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**159D**	2009/02/17	05:46	-66.4496	-129.4709	1201	3416	4602	5	13.2	45	-0.1	981.7

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
3	0.652	0.652	2.499	2.497	33.647	8.12	353	87.8	26.978	1027.0	106.8	0.003	1450.3			3
25	0.582	0.581	2.445	2.427	33.648	8.13	353	87.9	26.983	1027.1	106.3	0.027	1450.4	0.116	250	25
50	-1.056	-1.057	0.835	0.797	33.798	7.92	344	94.1	27.181	1027.4	87.3	0.052	1443.4	0.115	250	50
75	-1.448	-1.450	0.467	0.410	33.885	7.85	341	95.8	27.265	1027.6	79.3	0.072	1442.1	0.109	246	74
100	-1.410	-1.413	0.528	0.452	33.963	7.68	334	96.7	27.327	1027.8	73.2	0.091	1442.8	0.083	237	99
125	-1.188	-1.191	0.772	0.678	34.008	7.50	326	96.8	27.356	1028.0	70.4	0.109	1444.3	0.072	222	124
150	-0.595	-0.600	1.388	1.275	34.096	6.95	302	96.9	27.404	1028.1	66.0	0.126	1447.6	0.072	217	148
175	0.075	0.068	2.082	1.951	34.190	6.23	271	96.9	27.449	1028.3	62.1	0.142	1451.2	0.058	208	173
200	1.139	1.130	3.176	3.025	34.364	5.01	218	97.0	27.525	1028.5	55.5	0.157	1456.7	0.051	197	198
225	1.655	1.644	3.715	3.546	34.452	4.51	196	96.8	27.560	1028.6	52.6	0.170	1459.5	0.055	173	223
250	1.849	1.835	3.931	3.743	34.505	4.28	186	96.9	27.588	1028.8	50.2	0.183	1460.9	0.036	171	247
275	1.959	1.944	4.062	3.854	34.536	4.17	181	97.0	27.604	1028.9	48.8	0.196	1461.8	0.024	222	272
300	2.006	1.989	4.129	3.903	34.560	4.12	179	96.9	27.620	1029.0	47.5	0.208	1462.4	0.036	251	297
325	2.069	2.051	4.213	3.968	34.585	4.06	177	97.1	27.635	1029.2	46.3	0.220	1463.2	0.049	258	321
350	2.078	2.058	4.241	3.977	34.601	4.05	176	97.1	27.648	1029.3	45.2	0.231	1463.6	0.053	261	346
375	2.054	2.033	4.236	3.954	34.617	4.05	176	97.1	27.663	1029.4	43.9	0.242	1464.0	0.055	243	371
400	2.060	2.038	4.263	3.962	34.630	4.05	176	97.1	27.672	1029.5	43.1	0.253	1464.4	0.060	240	396
425	2.061	2.038	4.283	3.963	34.641	4.05	176	97.1	27.681	1029.7	42.5	0.264	1464.8	0.067	240	420
450	2.058	2.033	4.299	3.961	34.651	4.06	176	97.1	27.690	1029.8	41.8	0.274	1465.2	0.064	226	445
475	2.048	2.021	4.309	3.951	34.661	4.07	177	97.1	27.699	1029.9	41.0	0.285	1465.6	0.068	219	470
500	2.041	2.013	4.321	3.944	34.671	4.09	178	97.1	27.707	1030.0	40.4	0.295	1466.0	0.072	223	494
550	2.014	1.983	4.333	3.918	34.685	4.13	179	97.1	27.721	1030.3	39.3	0.315	1466.7	0.085	218	544
600	1.995	1.961	4.352	3.900	34.696	4.17	181	97.1	27.731	1030.5	38.5	0.334	1467.5	0.074	222	593
650	1.978	1.940	4.372	3.883	34.704	4.19	182	97.0	27.739	1030.8	38.0	0.353	1468.2	0.059	225	642
700	1.939	1.899	4.372	3.845	34.710	4.22	184	97.1	27.747	1031.0	37.4	0.372	1468.9	0.057	239	692
750	1.899	1.855	4.369	3.805	34.716	4.26	185	97.2	27.756	1031.3	36.8	0.391	1469.6	0.061	245	741
800	1.859	1.813	4.368	3.765	34.721	4.29	187	97.2	27.763	1031.5	36.3	0.409	1470.2	0.062	243	790
850	1.820	1.771	4.367	3.727	34.726	4.32	188	97.2	27.770	1031.7	35.8	0.427	1470.9	0.065	243	840
900	1.774	1.722	4.358	3.681	34.728	4.35	189	97.1	27.776	1032.0	35.4	0.445	1471.5	0.048	216	889
950	1.737	1.682	4.359	3.644	34.730	4.38	190	97.2	27.780	1032.2	35.1	0.462	1472.2	0.048	204	938
1000	1.686	1.628	4.346	3.593	34.732	4.41	191	97.2	27.785	1032.4	34.6	0.480	1472.8	0.045	205	988
1200	1.519	1.449	4.330	3.426	34.732	4.48	195	97.1	27.799	1033.4	33.7	0.548	1475.4	0.030	176	1184
1201	1.520	1.450	4.331	3.427	34.732	4.48	195	97.2	27.799	1033.4	33.7	0.548	1475.4	0.030	176	1185

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	159B	2009/02/17	06:13	-66.4500	-129.4701	1201	3416	4602	5

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
40	0.133	0.132	33.678	27.032	8.01	348	33.683	8.00	348	2142.8		11,10	39
90	-1.466	-1.468	33.937	27.308	7.72	336	33.936	7.71	335	2179.1		9,8	89
351	2.073	2.053	34.597	27.644	4.05	176	34.598	4.00	174	2255.2		7,6	347
911	1.762	1.709	34.728	27.776	4.36	190	34.733			2251.3		4	900
1201	1.518	1.448	34.732	27.799	4.49	195	34.736			2253.1		2	1185

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	159U	2009/02/17	06:41	-66.4498	-129.4705	1201	3416	4602	5

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
1	0.579	0.579	2.425	2.424	33.642	9.12	397	26.979	1027.0	106.8	0.001	1450.0	1
25	0.541	0.540	2.404	2.386	33.648	8.10	352	26.986	1027.1	106.1	0.027	1450.2	25
50	-0.738	-0.740	1.150	1.112	33.752	7.89	343	27.132	1027.4	92.1	0.052	1444.8	50
75	-1.437	-1.439	0.478	0.421	33.883	7.83	341	27.262	1027.6	79.5	0.073	1442.1	74
100	-1.451	-1.453	0.486	0.411	33.950	7.70	335	27.317	1027.8	74.1	0.092	1442.6	99
125	-1.173	-1.176	0.787	0.693	34.008	7.49	326	27.355	1028.0	70.5	0.110	1444.4	124
150	-0.701	-0.706	1.281	1.168	34.071	7.13	310	27.389	1028.1	67.5	0.127	1447.1	148
175	0.045	0.039	2.052	1.920	34.179	6.41	279	27.442	1028.3	62.8	0.144	1451.1	173
200	0.968	0.959	3.001	2.851	34.319	5.33	232	27.500	1028.4	57.7	0.159	1455.9	198
225	1.650	1.638	3.709	3.540	34.443	4.54	197	27.553	1028.6	53.2	0.173	1459.5	223
250	1.822	1.809	3.904	3.715	34.492	4.32	188	27.580	1028.8	50.9	0.186	1460.7	247
275	1.955	1.940	4.057	3.850	34.532	4.18	182	27.601	1028.9	49.1	0.198	1461.8	272
300	2.004	1.987	4.126	3.900	34.556	4.12	179	27.617	1029.0	47.8	0.210	1462.4	297
325	2.060	2.042	4.202	3.958	34.577	4.07	177	27.629	1029.2	46.8	0.222	1463.1	321
350	2.066	2.046	4.228	3.965	34.594	4.06	176	27.643	1029.3	45.7	0.234	1463.6	346
375	2.053	2.033	4.236	3.954	34.615	4.05	176	27.660	1029.4	44.1	0.245	1464.0	371
400	2.060	2.038	4.262	3.961	34.626	4.05	176	27.669	1029.5	43.5	0.256	1464.4	396
425	2.061	2.038	4.283	3.963	34.636	4.05	176	27.677	1029.7	42.8	0.267	1464.8	420
450	2.058	2.033	4.299	3.960	34.647	4.06	177	27.686	1029.8	42.1	0.277	1465.2	445
475	2.047	2.020	4.307	3.949	34.659	4.08	177	27.697	1029.9	41.2	0.288	1465.6	470
500	2.040	2.011	4.319	3.943	34.667	4.09	178	27.704	1030.0	40.6	0.298	1466.0	494
550	2.015	1.984	4.333	3.919	34.681	4.12	179	27.717	1030.3	39.6	0.318	1466.7	544
600	1.998	1.964	4.355	3.903	34.691	4.16	181	27.727	1030.5	38.9	0.338	1467.5	593
650	1.981	1.943	4.375	3.886	34.700	4.19	182	27.735	1030.8	38.4	0.357	1468.3	642
700	1.949	1.909	4.381	3.854	34.707	4.22	183	27.744	1031.0	37.8	0.376	1469.0	692
750	1.904	1.861	4.374	3.809	34.713	4.26	185	27.753	1031.3	37.1	0.395	1469.6	741
800	1.861	1.815	4.369	3.767	34.719	4.30	187	27.761	1031.5	36.5	0.413	1470.2	790
850	1.823	1.773	4.369	3.729	34.722	4.32	188	27.767	1031.7	36.1	0.431	1470.9	840
900	1.778	1.726	4.362	3.684	34.725	4.35	189	27.773	1032.0	35.6	0.449	1471.5	889
950	1.736	1.681	4.358	3.643	34.727	4.38	190	27.777	1032.2	35.3	0.467	1472.2	938
1000	1.686	1.628	4.346	3.593	34.729	4.41	191	27.783	1032.4	34.9	0.484	1472.8	988
1200	1.520	1.450	4.331	3.427	34.732	4.48	195	27.798	1033.4	33.8	0.553	1475.4	1184
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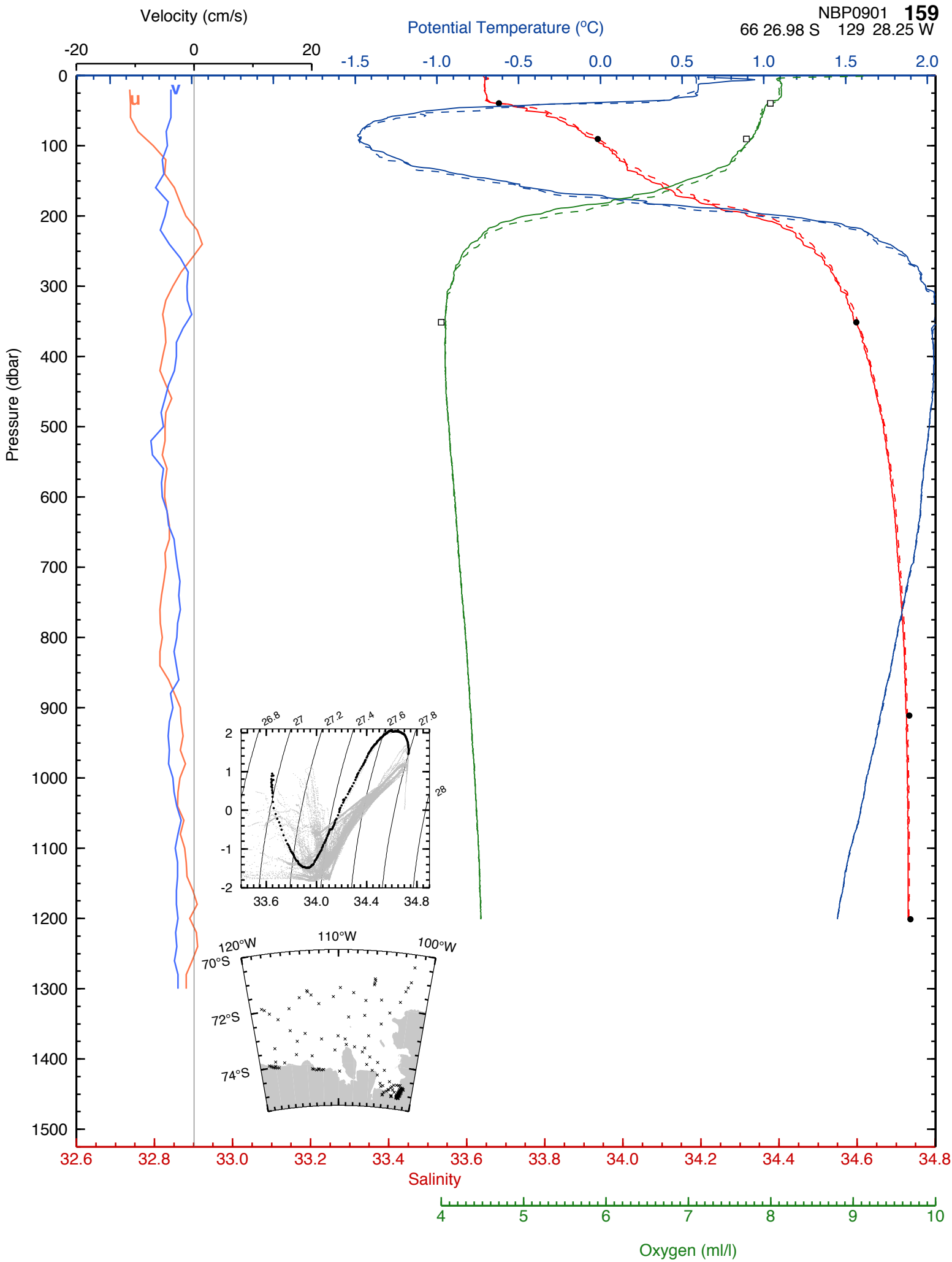
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NBP0901 159
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Pressure (dbar)
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34.8
Salinity
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Oxygen (ml/l)

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM	WNS	WND	AIRTM	BAROM
NBP0901	**160D**	2009/02/18	04:07	-66.9998	-128.9678	4498	8	4415	6	11.0	267	0.4	982.0

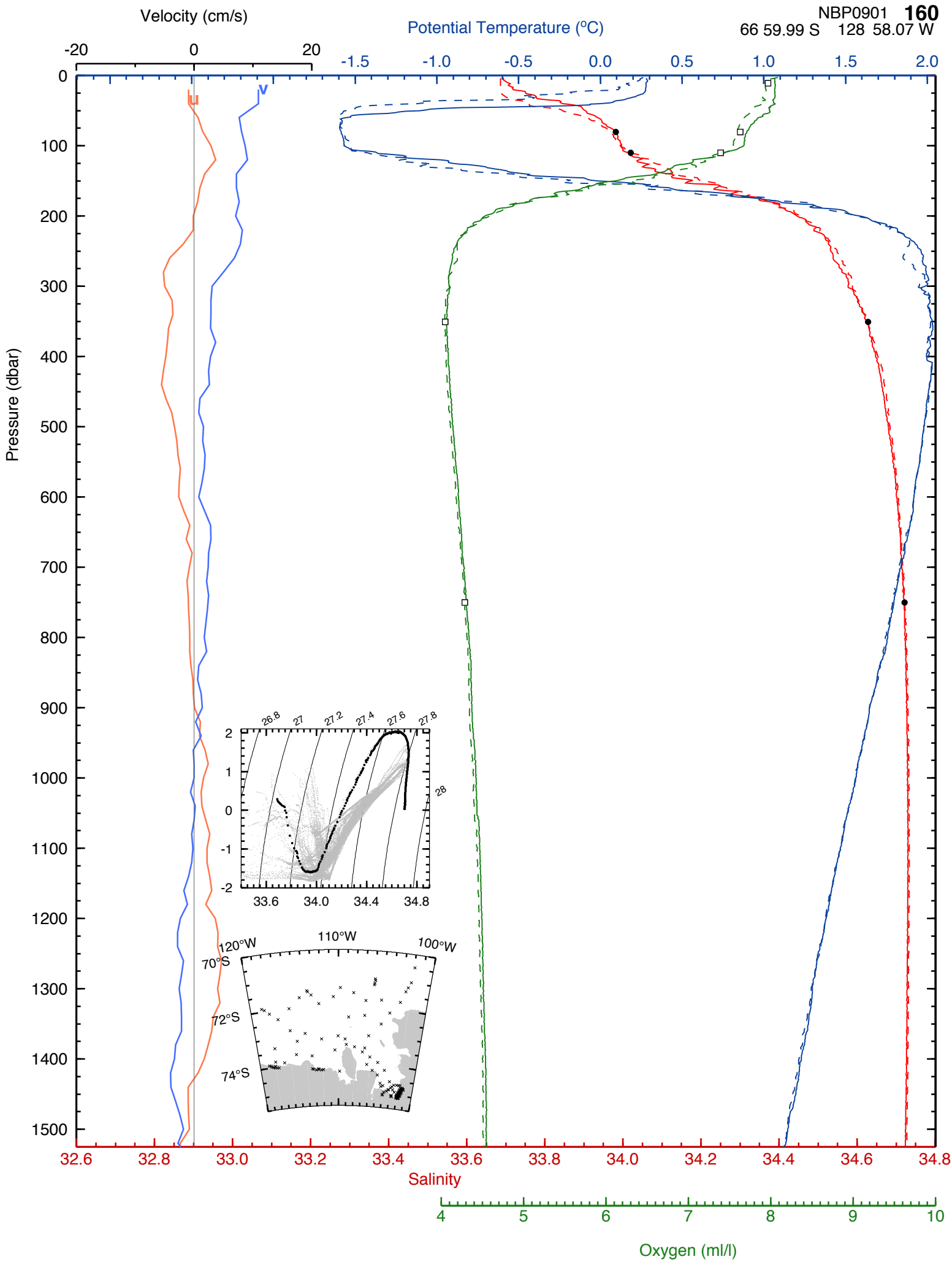
PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	TRANS	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	LADSP	LADIR	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	%	kg/m3	kg/m3		dyn.m	m/s	m/s	degT	m
4	0.283	0.283	2.134	2.131	33.687	8.04	350	91.9	27.031	1027.0	101.8	0.004	1448.8			4
25	0.265	0.264	2.131	2.112	33.688	8.05	350	91.9	27.034	1027.2	101.6	0.025	1449.0	0.109	355	25
50	-1.106	-1.107	0.788	0.751	33.846	7.98	347	95.0	27.221	1027.5	83.5	0.049	1443.2	0.094	189	50
75	-1.594	-1.596	0.325	0.268	33.957	7.74	336	96.5	27.328	1027.7	73.3	0.069	1441.5	0.081	9	74
100	-1.566	-1.568	0.374	0.299	33.993	7.67	333	96.7	27.356	1027.8	70.5	0.087	1442.1	0.091	18	99
125	-0.900	-0.903	1.064	0.970	34.082	7.01	305	97.0	27.406	1028.0	65.9	0.104	1445.8	0.094	21	124
150	-0.007	-0.012	1.983	1.870	34.205	6.11	265	97.0	27.465	1028.2	60.6	0.119	1450.5	0.074	11	148
175	0.964	0.956	2.981	2.849	34.352	5.13	223	97.1	27.527	1028.4	55.1	0.134	1455.5	0.076	6	173
200	1.594	1.584	3.635	3.485	34.458	4.53	197	97.1	27.569	1028.5	51.6	0.147	1458.8	0.072	321	198
225	1.862	1.850	3.925	3.756	34.514	4.27	186	97.1	27.594	1028.7	49.5	0.160	1460.5	0.082	358	223
250	1.975	1.962	4.060	3.872	34.549	4.15	181	97.1	27.613	1028.8	47.9	0.172	1461.5	0.081	340	247
275	2.005	1.990	4.109	3.902	34.571	4.11	179	97.1	27.628	1028.9	46.6	0.184	1462.0	0.075	320	272
300	2.003	1.986	4.127	3.901	34.588	4.10	178	97.0	27.643	1029.0	45.4	0.195	1462.5	0.061	304	297
325	2.028	2.010	4.172	3.928	34.603	4.08	177	97.2	27.653	1029.2	44.5	0.206	1463.0	0.047	308	321
350	2.050	2.031	4.215	3.951	34.627	4.06	177	97.2	27.670	1029.3	43.1	0.217	1463.5	0.048	307	346
375	2.031	2.010	4.215	3.932	34.640	4.08	177	97.2	27.683	1029.4	42.0	0.228	1463.9	0.055	306	371
400	2.017	1.995	4.221	3.919	34.653	4.08	178	97.2	27.694	1029.6	41.0	0.238	1464.2	0.057	302	396
425	2.046	2.023	4.270	3.950	34.666	4.10	178	97.2	27.703	1029.7	40.4	0.249	1464.8	0.058	296	420
450	2.033	2.007	4.275	3.936	34.672	4.11	179	97.2	27.708	1029.8	40.0	0.259	1465.2	0.058	292	445
475	2.019	1.992	4.280	3.923	34.680	4.13	179	97.2	27.716	1029.9	39.4	0.269	1465.5	0.044	282	470
500	2.006	1.978	4.287	3.910	34.685	4.14	180	97.2	27.721	1030.1	39.0	0.278	1465.9	0.038	292	494
550	1.984	1.953	4.303	3.889	34.696	4.17	181	97.2	27.732	1030.3	38.2	0.298	1466.6	0.032	305	544
600	1.952	1.918	4.309	3.857	34.705	4.21	183	97.2	27.742	1030.5	37.5	0.317	1467.3	0.027	291	593
650	1.922	1.885	4.317	3.828	34.712	4.24	184	97.2	27.750	1030.8	36.9	0.335	1468.0	0.029	345	642
700	1.878	1.838	4.311	3.784	34.717	4.28	186	97.2	27.758	1031.0	36.4	0.353	1468.7	0.025	346	692
750	1.837	1.795	4.309	3.744	34.722	4.31	187	97.2	27.765	1031.3	35.8	0.371	1469.3	0.027	338	741
800	1.803	1.757	4.312	3.709	34.725	4.34	188	97.2	27.771	1031.5	35.4	0.389	1470.0	0.020	338	790
850	1.746	1.697	4.292	3.652	34.728	4.36	189	97.2	27.778	1031.7	34.9	0.407	1470.6	0.009	328	840
900	1.697	1.646	4.282	3.604	34.730	4.37	190	97.2	27.783	1032.0	34.5	0.424	1471.2	0.013	200	889
950	1.660	1.605	4.282	3.567	34.731	4.40	191	97.2	27.787	1032.2	34.2	0.441	1471.8	0.015	40	938
1000	1.620	1.562	4.280	3.527	34.733	4.42	192	97.2	27.791	1032.5	34.0	0.458	1472.5	0.021	90	987
1200	1.450	1.380	4.260	3.357	34.733	4.49	195	97.2	27.805	1033.4	33.0	0.525	1475.1	0.027	120	1184
1400	1.310	1.228	4.271	3.217	34.730	4.54	197	97.2	27.813	1034.3	32.4	0.590	1477.8	0.039	143	1381
1600	1.175	1.081	4.286	3.081	34.725	4.57	199	97.3	27.819	1035.3	31.8	0.655	1480.5	0.034	259	1578
1800	1.058	0.951	4.320	2.964	34.722	4.64	201	97.3	27.825	1036.2	31.3	0.718	1483.3	0.049	322	1774
2000	0.951	0.830	4.363	2.857	34.717	4.68	204	97.2	27.829	1037.1	30.9	0.780	1486.2	0.062	320	1970
2200	0.861	0.726	4.423	2.766	34.714	4.73	205	97.2	27.834	1038.0	30.4	0.841	1489.2	0.043	301	2166
2400	0.774	0.625	4.487	2.680	34.711	4.78	207	97.2	27.837	1038.9	29.9	0.902	1492.2	0.088	273	2362
2600	0.700	0.535	4.563	2.605	34.709	4.82	209	97.2	27.841	1039.8	29.4	0.961	1495.2	0.077	241	2558
2800	0.621	0.441	4.635	2.526	34.707	4.86	211	97.2	27.845	1040.7	28.8	1.019	1498.3	0.106	254	2754
3000	0.554	0.358	4.718	2.459	34.706	4.90	213	97.2	27.849	1041.6	28.2	1.076	1501.4	0.125	264	2949
3200	0.507	0.294	4.822	2.412	34.706	4.92	214	97.2	27.852	1042.5	27.8	1.132	1504.6	0.120	268	3144
3400	0.477	0.246	4.942	2.382	34.705	4.92	214	97.2	27.855	1043.4	27.6	1.188	1507.9	0.059	245	3339
3600	0.457	0.207	5.073	2.362	34.706	4.93	214	97.2	27.858	1044.3	27.4	1.243	1511.2	0.091	234	3534
3800	0.438	0.170	5.205	2.344	34.705	4.93	214	97.2	27.859	1045.2	27.3	1.297	1514.6	0.094	223	3729
4000	0.418	0.130	5.335	2.323	34.705	4.93	214	97.1	27.861	1046.1	27.1	1.352	1518.0	0.066	231	3923
4200	0.403	0.094	5.471	2.308	34.704	4.93	214	97.1	27.862	1046.9	27.0	1.406	1521.4	0.087	221	4118
4400	0.382	0.053	5.601	2.288	34.703	4.93	214	97.0	27.864	1047.8	26.9	1.460	1524.8	0.071	249	4312
4498	0.380	0.040	5.672	2.285	34.701	4.92	214	96.9	27.863	1048.2	27.0	1.486	1526.5			4407

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	160B	2009/02/18	05:38	-66.9996	-128.9674	4498	8	4415	6

PRES	TEMPCTD	POTEMP	SALCTD	SIGMA-0	OXCTD	OXCTD	SALBOT	OXBOT	OXBOT	TC02	$\delta^{18}O$	BN	DPTH
dbar	degC	degC	pss-78		ml/l	um/kg	pss-78	ml/l	um/kg	um/kg	o/oo		m
11	0.091	0.090	33.722	27.070	7.93	345		7.97	346			20,19	11
81	-1.567	-1.569	33.986	27.350	7.58	330	33.982	7.63	332			18,17	80
110	-1.396	-1.399	34.017	27.370	7.36	320	34.020	7.39	321			16,15	109
351	2.044	2.025	34.626	27.670	4.04	176	34.628	4.05	176			14,13	347
750	1.830	1.787	34.721	27.765	4.28	186	34.721	4.29	186			12,11	741
4497	0.379	0.040	34.702	27.863	4.45	194	34.701					2	4406

SHPCRUS	STNM	YEAR/MO/DA	GTIME	LATITUDE	LONGITUDE	PRMAX	HT	WDPTH	SAM
NBP0901	160U	2009/02/18	06:58	-66.9998	-128.9676	4498	8	4415	6

PRES	TEMPCTD	POTEMP	TE>FRZ	TE>FRS	SALCTD	OXCTD	OXCTD	SIGMA-0	DENSITY	ANOMA	GEOPT	SVELOC	DPTH
dbar	degC	degC	degC	degC	pss-78	ml/l	um/kg	kg/m3	kg/m3		dyn.m	m/s	m
3	0.261	0.261	2.111	2.109	33.691	8.09	352	27.036	1027.1	101.3	0.003	1448.6	3
25	-0.179	-0.180	1.691	1.672	33.750	7.93	345	27.106	1027.2	94.7	0.025	1447.0	25
50	-1.559	-1.560	0.339	0.301	33.904	7.77	338	27.284	1027.5	77.6	0.046	1441.2	50
75	-1.583	-1.585	0.337	0.280	33.969	7.61	331	27.337	1027.7	72.4	0.065	1441.5	74
100	-1.533	-1.535	0.407	0.332	33.996	7.55	328	27.357	1027.8	70.3	0.083	1442.2	99
125	-1.061	-1.064	0.901	0.807	34.057	7.09	308	27.391	1028.0	67.2	0.100	1445.0	124
150	-0.203	-0.208	1.785	1.672	34.175	6.29	274	27.451	1028.2	61.8	0.116	1449.5	148
175	1.024	1.016	3.040	2.909	34.354	5.12	223	27.525	1028.4	55.4	0.131	1455.8	173
200	1.575	1.565	3.616	3.466	34.446	4.58	199	27.561	1028.5	52.4	0.144	1458.8	198
225	1.859	1.847	3.922	3.753	34.509	4.28	186	27.590	1028.6	49.8	0.157	1460.5	223
250	1.879	1.865	3.962	3.774	34.532	4.20	182	27.608	1028.8	48.3	0.169	1461.0	247
275	1.936	1.921	4.040	3.833	34.558	4.14	180	27.623	1028.9	47.0	0.181	1461.7	272
300	1.965	1.949	4.089	3.863	34.577	4.10	178	27.637	1029.0	45.9	0.193	1462.3	297
325	2.019	2.002	4.164	3.919	34.605	4.05	176	27.655	1029.2	44.3	0.204	1463.0	321
350	2.042	2.023	4.207	3.943	34.626	4.04	176	27.670	1029.3	43.0	0.215	1463.5	346
375	2.024	2.003	4.208	3.925	34.638	4.05	176	27.681	1029.4	42.1	0.226	1463.8	371
400	2.028	2.005	4.231	3.930	34.648	4.06	176	27.689	1029.6	41.5	0.236	1464.3	396
425	2.050	2.026	4.273	3.952	34.659	4.06	177	27.697	1029.7	41.0	0.247	1464.8	420
450	2.036	2.011	4.278	3.939	34.666	4.08	177	27.703	1029.8	40.4	0.257	1465.2	445
475	2.024	1.998	4.285	3.928	34.673	4.09	178	27.710	1029.9	39.9	0.267	1465.5	470
500	2.007	1.979	4.287	3.911	34.681	4.11	179	27.718	1030.1	39.3	0.277	1465.9	494
550	1.986	1.954	4.304	3.890	34.691	4.14	180	27.728	1030.3	38.6	0.296	1466.6	544
600	1.953	1.919	4.310	3.858	34.701	4.18	182	27.739	1030.5	37.7	0.315	1467.3	593


Velocity (cm/s)
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0
20
u
v
Potential Temperature (°C)
-1.5
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-0.5
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0.5
1.0
1.5
2.0
NBP0901 160
66 59.99 S 128 58.07 W
Pressure (dbar)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
26.8
27
27.2
27.4
27.6
27.8
28
2
1
0
-1
-2
33.6
34.0
34.4
34.8
120°W
110°W
100°W
70°S
72°S
74°S
32.6
32.8
33.0
33.2
33.4
33.6
33.8
34.0
34.2
34.4
34.6
34.8
Salinity
4
5
6
7
8
9
10
Oxygen (ml/l)