

Day in the Life of the Hudson River 10/20/15
RIVER MILE 23.5
Dobbs Ferry, Waterfront NY
Stephen Fleming & Bill Livingston, EF Academy and 160 Students 11th & 12th,
4 adults total
(41.009253 -73.880438)

Location: Dobbs Ferry Waterfront Park, Westchester NY

Area: Brand new waterfront park

Surrounding Land Use: Parkland

Sampling Site: 10% beach at low tide, 70% rip rap,

Shoreline: shore with bulkhead, area covered with vegetation

Plants in area: Trees, bushes and grasses

Water: Calm

River Bottom: sandy/rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical - Air Temperature	Time	°F	°C	Average
	10:33 AM	57	14	
	11:15 AM	59	15	
	2:30 PM	68	20	
Wind Speed:	Time	Beaufort	Anemometer	Direction
	9:50 AM		7-12 mph	N
	11:03AM		4-7 mph	N
	2:30 PM		11-16 mph	N
Cloud Cover	Clear (<25%)	Partly Cloudy (26-50%)	Mostly Cloudy (51-75%)	Overcast (>75%)
10:30 AM		✓		
11:15 AM	✓			
2:00 PM	✓			
2:30 PM	✓			
Precipitation	Time	Rain	Describe	
	None	N		
Weather last 3 days	cool			
Water Temperature	Time	°C	°F	Average
	Avg. 10:45 AM – 3:00 PM	17 C	62.6 F	
Turbidity – long site tube	Reading 1	Reading 2	Reading 3	Average
10:15 AM	36.7 cm			
Chemical	Time	mg/L	Water Temp	% Saturation
DO (vernier data)	14:30 PM	5.9 mg/L	17	45%

<i>logger</i>)				
pH – color match test kit	Avg. 10:45 AM – 3:00 PM	6.35		
<i>Salinity - refractometer</i>	Avg. 10:45 AM – 3:00 PM	10.6 ppt		
<i>Fish Catch -</i>	<i>ID</i>	<i>Number</i>	<i>Longest</i>	<i>CPUE</i>
Seine 1	Oyster toadfish	1	7 cm	0.011
Seine 2	Atlantic silverside	7	6 cm	0.084
Seine 3	Bluefish	2	12 cm	0.060
	Atlantic Silverside	3	6 cm	0.036
Seine 4	Striped Bass – yoy	3		
	Atlantic Silverside	17	9 cm	0.197
Seine 5	Atlantic Silverside	7	6cm	0.084
Seine 6	Atlantic Silverside	67	6 cm	0.802
	Hog Choker	1	6 cm	0.227
	Striped Bass	3	15 cm	
	Atlantic Silverside	6	15 cm	
	Mummichog	3	5 cm	
Seine 6	Hog choker	7		0.000
Seine 7	Atlantic Silverside	15	11cm	0.179
	Striped Bass	1	14.9	0.012
	Hog Choker	1	6cm	0.012
Seine 8	Striped Bass	3	15 cm	0.036
	Atlantic Silverside	6		0.072
	Mummichog	3	5 cm	0.036
Seine 9	Striped Bass	2	8 cm	0.240
	Atlantic Silverside	8	8 cm	0.875
Seine 10	Striped Bass	2	8.5 cm	0.024
	Atlantic Silverside	7	7.5 cm	0.004
Seine 11	Blue fish	2	12 cm	0.012
	Atlantic Silverside	3	7 cm	0.015
Seine 12	Atlantic Silverside	53	7 cm	0.634
Seine 13	Atlantic Silverside	45	7 cm	0.539
Seine 14	Striped Bass	3	6	0.036
	Atlantic Silverside	4	6	0.048
Seine15	Striped Bass (Baby)	3		0.036
	Atlantic Silverside	2	6.5 cm	0.024
Seine 16	Atlantic Silverside	67		
	DIVERSITY 6	TOTALS	356	
MACRO-INV.	Species	Count	Sex	
Seine 1	Crab	3	Unknown	
Seine 2	Blue Crab	1	M	
Seine 5	Blue Crab	1	M	
Seine 6	Blue Crab	3	2M/1F	
	Sand Shrimp (Crangon)	3		

Seine 7	Crabs	7			
	Sand Shrimp (Crangon)				
Seine 8	Mud Crab	9	F		
	Blue Crab	4	M		
	Crab	2	F		
Seine 13	Blue Crab	3	F		
Seine 14	Blue Crab	1	M		
	Shrimp	2			
	Blue Crab	1			
Seine 16	Crab	1			
	Shrimp	1			
	DIVERSITY 4	Totals 42			
Tides -	Time	H20 height		*Rate of change	
	10:00 AM	58 cm	7 cm /30 mins	Falling	
	10:10 AM	54 cm			
	10:20 AM	50 cm			
	10:30 AM	51 cm			
	10:30 AM	23 cm	2 cm/10 mins	0.2 cm/min	
	10:40 AM	25 cm		Falling	
	10:50 AM	60 cm	2 cm/10 mins	0.2 cm/min	
	11:00 AM	58 cm		Falling	
	13:47 AM	71 cm	4 cm/4 min	1 cm/min	
	13:59	75 cm		Falling	
	14:20	45 cm	4 cm/4 min	1 cm/min	
	14:25	41 cm		Falling	
Currents -	Time	E/F/S	cm/30 sec	Cm/sec	Kts
	10:30	E	1407.5	46.92	0.91
	3:00 PM	F	287.5	9.58	
Boat Traffic – Commercial	TIME	NAME	COLOR	N/S	Loaded or Light
	2:10 PM	Barge	White /brown	Northbound	Light
	2:21 PM	Barge	Red/ brown	Southbound	Light
	2:22:00 PM	Barge	Red /white	Southbound	Light
	14:45	Ship	White and black	Southbound	Light
	9:45	Boat	white and black	Northbound	light
	9:46	Boat	white/black and red	Northbound	loaded
	9:44	Cargo ship	white and black	northbound	loaded
	13:55	Barge	White, black and	Northbound	Light

			red		
	14:25	large boat	black and yellow	northbound	loaded
	14:10	New Jersey	black/white	northbound	loaded
	14:35	Barge	red/brown	northbound	light
	14:08	cargo boat	red/black	northbound	light
	14:18	speed boat	white	southbound	light
	14:26	cargo boat	red/brown	southbound	loaded
	2.54 PM	Cargo ship	Black and red	northbound	loaded
	3.05 PM	Cargo ship	brown and white	northbound	light
	9:15	Cargo Ship	Orange/Br own	Northbound	loaded
	9:43	Cargo Ship	Black/white	Northbound	loaded
	9:43	large boat	Black/white	Northbound	light
	9:50 AM	Cargo Ship	Red	Northbound	loaded
	10:00 AM	Boat	white	Northbound	loaded
	10:15 AM	Cargo Ship	Blue	Northbound	Loaded
	9:42 AM	Cargo Ship	Red	Northbound	loaded
	9:50 AM	Boat	white	Northbound	loaded
	10:05 AM	Barge	White and Black	Southbound	loaded
	10:00 AM	large boat	black/white	Northbound	light
		cargo ship	orange	Northbound	loaded
		boat	white	Northbound	loaded
<i>Boat Traffic Recreational</i>					
	2:41 PM	Speedboat	Black and white	Southbound	Light
	2:21 PM	Speedboat	Black and white	Southbound	Light
	14:50	Speed boat	Black, white with a striped line	Southbound	Light

	2.54 PM	sail boat	white	northbound	light
	2.57 PM	sail boat	white	northbound	light
	2.58 PM	speedb oat	black and white	northbound	light