Day in the Life of the Hudson River 10/20/15 Data (Salt Front ~ RM 80) RIVER MILE 30.4 – Nyack Beach Hook Mountain State Park Peter Park, Nyack College, 6 students, 7 adults Nancy Arias & Jillian Decker, Rockland Community College, 4 students, 6 adults 41°07'10.85"N 73°54'45.40"W



Location: Nyack South Beach, Upper Nyack, Rockland County NY

**Area:** Park/Boat launch, near Hook Mountain Sandy Beach by the large sitting stairs, **Surrounding Land Use**: 40% forested, 10% industrial/commercial, 40% beach – used for recreation & picnics

Sampling Site: Beach – sandy and rocky at edges, muddy offshore, covered with



vegetation beyond the beach, stone wall, riprap shore, collected wood debris.

**Piping coming** into river south of sampling site **Water depth**:

**River Bottom** –sandy inshore (<3 ft depth) muddy offshore (>3 ft. depth), some scattered large rocks (<2 ft. length inshore)

**Plants:** None growing in area but water celery came up in the seine net

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	10:28 AM	18.3°C	65°F	
Ĩ	10:36 AM	18.9-19.4°C	66-67°F	
	10:56 AM	18.3°C	65°F	
Wind Speed				Ν
Cloud Cover	overcast			
Weather today	No rain			
Weather last 3	Warm and			

Water	10:28 AM	20-20.6°C	<b>68-69°</b> F	
Temperature	10:28 AM 10:36 AM	20-20.0 C 18.9-19.4°C	66-67°F	
тетрегиште	10:56 AM 10:56 AM	18.9-19.4 C 20°C	68°F	
T		20 C	08 F	
Turbidity –	NR			
Long site tube				
Chemical				
DO				
Drop count	11:20 AM	10 ppm		
pH <i>Colormetric kit</i>	NR			
Salinity -	9:18AM			
refractometer	9:55AM	11 ppt		
Fish Catch		Number	Species	Latin Name
9:30-11:30		Caught	~p · · · · ·	
Seine 20 ft.		9	Atlantic	Menidia
6 Hauls			Silverside	menidia
		2	Striped Bass	Morone saxatilis
Fish Diversity 6		18	Northern	Synanathus
2.5.10 2010 01 500y 0			Pipefish	fuscus
Total Catch 36		2	White Perch	Morone
10tul Culch 50		2	vv into i cicii	americana
		4	Bay Anchovy	Anchog
		-	5 5	mitchilli
		1	Banded	Fundulus
			Killifish	diaphanus
MACROINVERT		1	Clamworm (Sandworm)	Nereis sp.
DIVERSITY = 5		Тоо	Blue Crab	Callinectes
plus shells		numerous to count		sapidus
TOTALS = Too	( nearly	Тоо	Shore Shrimp	Palaemonetes
numerous to count	double sand	numerous to	Shore Shirinp	spp.
namerous to count	shrimp)	count but		SPP.
		Too	Sand Shrimp	Crangon
		numerous to	Sana Sininip	septemspinosa
		count		septemspinosu
		1	Dragonfly	Odenata
		1	nymph	
			Shells of hard	Mercenaria
			clam	mercenaria
Tides	Time	Change in	Change in	Rate of
Tues	1 11110	Time	<i>Height</i>	change
		1 inte	meigni	Flood/Ebb
	9:26 - 9:55	20 mins	18 mm 企	
		29 mins		0.62mm/min
	AM	27	15	Flood
	9:55-10:21	27 mins	15 mm û	0.56mm/min
	AM			Flood

	AM			Flood
Currents				
Distance Travelled	Time	Distance	Current Speed	Flood/Ebb
		from Shore	(cm/s)	
78.74 cm	30 sec	15 ft.	2.62 cm/s	Flood
457.2 cm	30 sec	20 ft	15.24 cm/s	Flood
147.32 cm	30 sec	40 ft	1.93 cm/s	Flood
106.68 cm	30 sec	55 ft	1.4 cm/s	Flood
71.12 cm	30 sec	90 ft	0.93 cm/s	Flood
<b>Observations</b>	Grey moth ~1 inch anterio-posterior length			
	Male monarch butterfly $\sim 2$ inch anterio-posterior length			

FISH CATCH IMAGES:

Northern Pipefish & Atlantic Silversides



White Perch & Striped Bass



Bay Anchovy & Banded Killifish



