

**Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE 52.5**

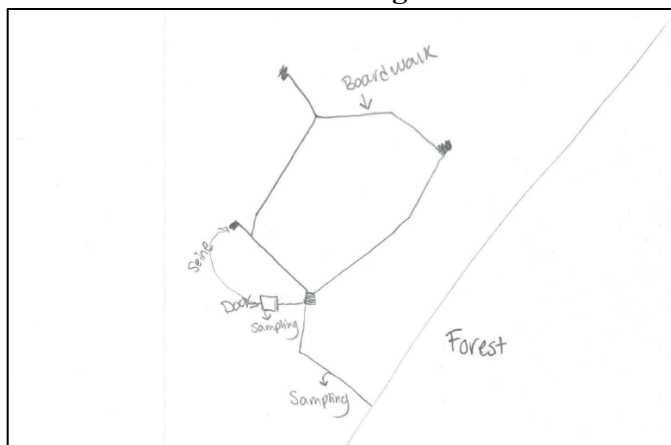
Constitution Marsh Audubon Center & Sanctuary, Cold Spring, Putnam

Rebecca Schultz, Constitution Marsh Audubon Center & Sanctuary

Kerry DiMeo, San Miguel Academy, Newburgh

11 fifth graders & 6 adults

Latitude N 41°40'27.66" - Longitude W -73°9'39.834"



Location: Boardwalk at Constitution Marsh, Cold Spring, Putnam County

Area: located in a emergent marsh, range of herbaceous plants

Surrounding Land Use: 100% Tidal Marsh

Sampling Site: In the midst of plant material off a boardwalk. Covered with vegetation

Shoreline: Sandy, muddy, rocky

Plants in area: Narrow leaf cattail 60%, Arrow Arum 10%, Arrowhead 5%, Wild rice 10%, Pickerelweed 5% water hemp, swamp rose mallow >5%, Jewelweed >5%

Percent of site covered with vegetation: 40%

Tidal Shallows: Water Milfoin

Water depth: 6 inches to a few feet

River Bottom – muddy, weedy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	1:00 PM	60 °F	15.56 °C	
	1:27 PM	69 °F	20.56 °C	
Wind Speed	1:30 AM	Beaufort 1		
Cloud Cover	1:00 PM	Clear 26-51% partly cloudy		
Weather today	No rain, warmed up during sampling			
Weather recently	Very cold weekend			
Water Surface	Calm			
Water Temperature	1:45 PM	58 °F	14.44 °C	
Turbidity –	1:13 PM	>30.5 cm *secchi	*Hit bottom so could not	

			<i>do accurately</i>			
Chemical						
DO (drop kits)	NR					
pH Indicator solution	1:24 PM	6 6	Average 6			
Salinity - refractometer	1:30 PM	4 ppt 4.0	Average 4.0 ppt			
Fish Catch- 12:05 AM	Number Caught	Species	Size of largest			Seine
60 ft net X 4ft- 50 ft. pull	1	Brown Bullhead	7 cm			Seine #1 11:00 AM
	2	Pumpkinseed	12.5 cm			Diversity 4
	3	Banded Killifish	7.8 cm			Totals 32
	26	Spottail Shiner	10.2 cm			
	1	Atlantic Silverside	8.1 cm			Seine #2 11:25 AM
	14	Spottail Shiner	10.5 cm			Diversity 5
	1	Brown Bullhead	8.7 cm			Totals 19
	1	Striped Bass	7 cm			
	2	Banded Killifish	8.9 cm			
Total Catch 51		Total Diversity - 6				2 Seines
Seine #1	11:00 AM	Catch 32	55 ft. pull			CPUE 0.032
Seine #2	11:25 AM	Catch 19	55 ft. pull			CPUE 0.019
Macro	1	Crangon Shrimp				
Tides	12:58 PM	Rising	20 cm			Set point
	1:20 PM	Rising	31 cm			0.5 cm/min
	1:31 PM	Rising	33 cm			Set Point
	1:42 PM	Rising	39 cm			0.54 cm/min
Current *	Time	Cm/30 sec	Cm/s ec	Kt s	North/ South	Ebb/Flood
Note the wind was definitely 'speeding things up'	1:07 PM	76	2.53	0. 05	North	Flood
	1:20 PM	45	1.50	0. 03	North	Flood
	1:33 PM	35	1.17	0. 02	North	Flood
Birds	Crows, wood ducks, dragonfly and other waterfowl					