

# Day in the Life of the Hudson River Estuary October 4, 2012



3500 students and educators  
70 sites on the Hudson River and NYC waterways  
1600 fish caught and released



Schuylerville, Upper Hudson



Peebles Island, where the Mohawk meets the Hudson



Green Island



Ulster Landing



Peekskill



Croton Point



Ossining



Nyack



Piermont Pier



Hastings-on-Hudson



Sherman Creek, NYC



Brooklyn Bridge, NYC



Schooner Pioneer, NYC



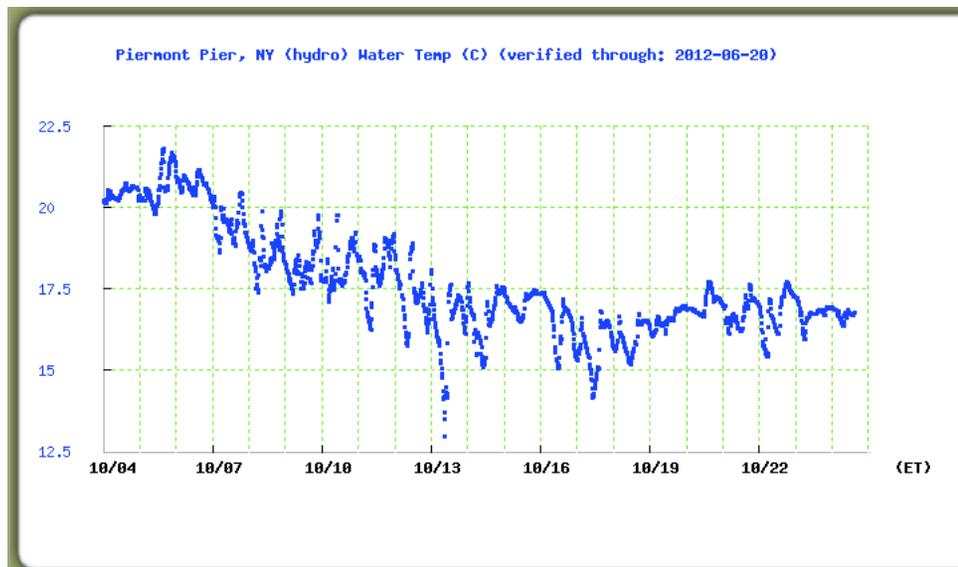
Gerritsen Creek, NYC



One day, many species



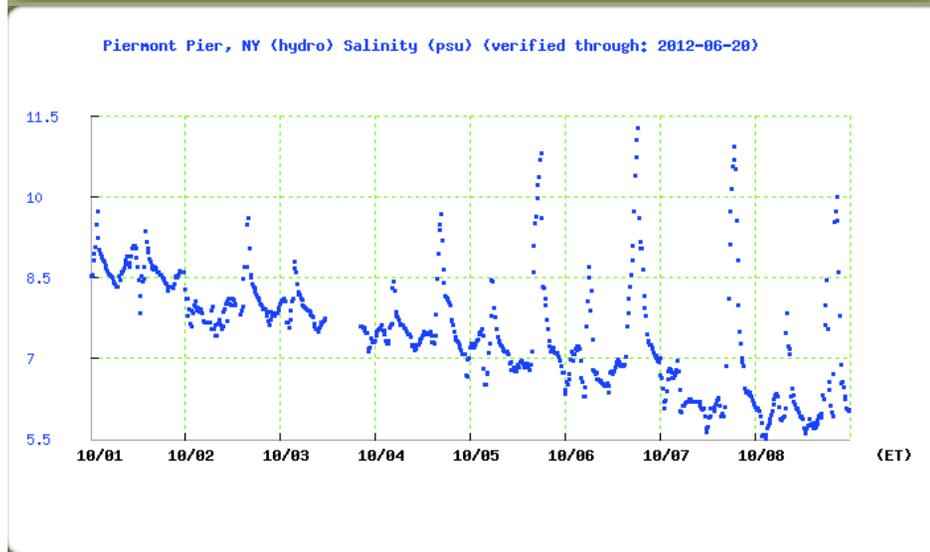
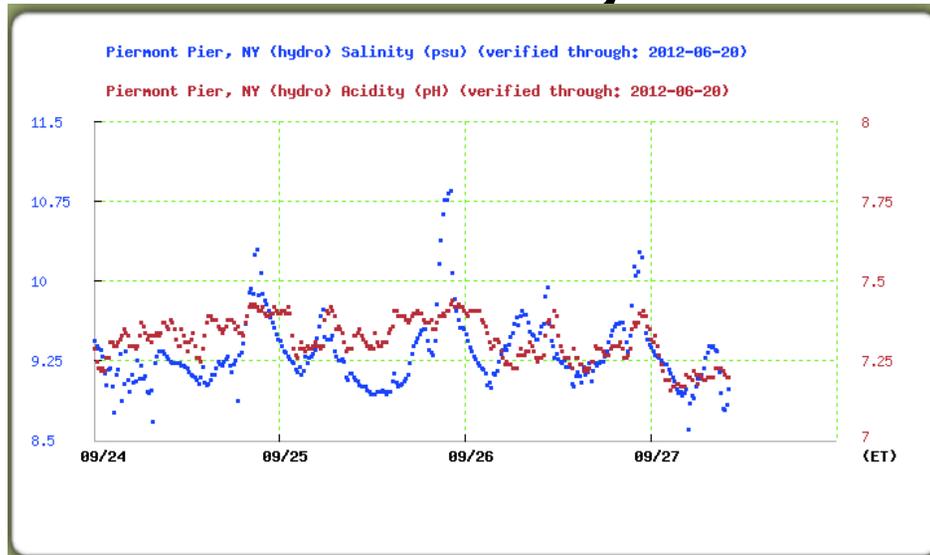
# Water Temperature?



Cooling trend after 10/4/12



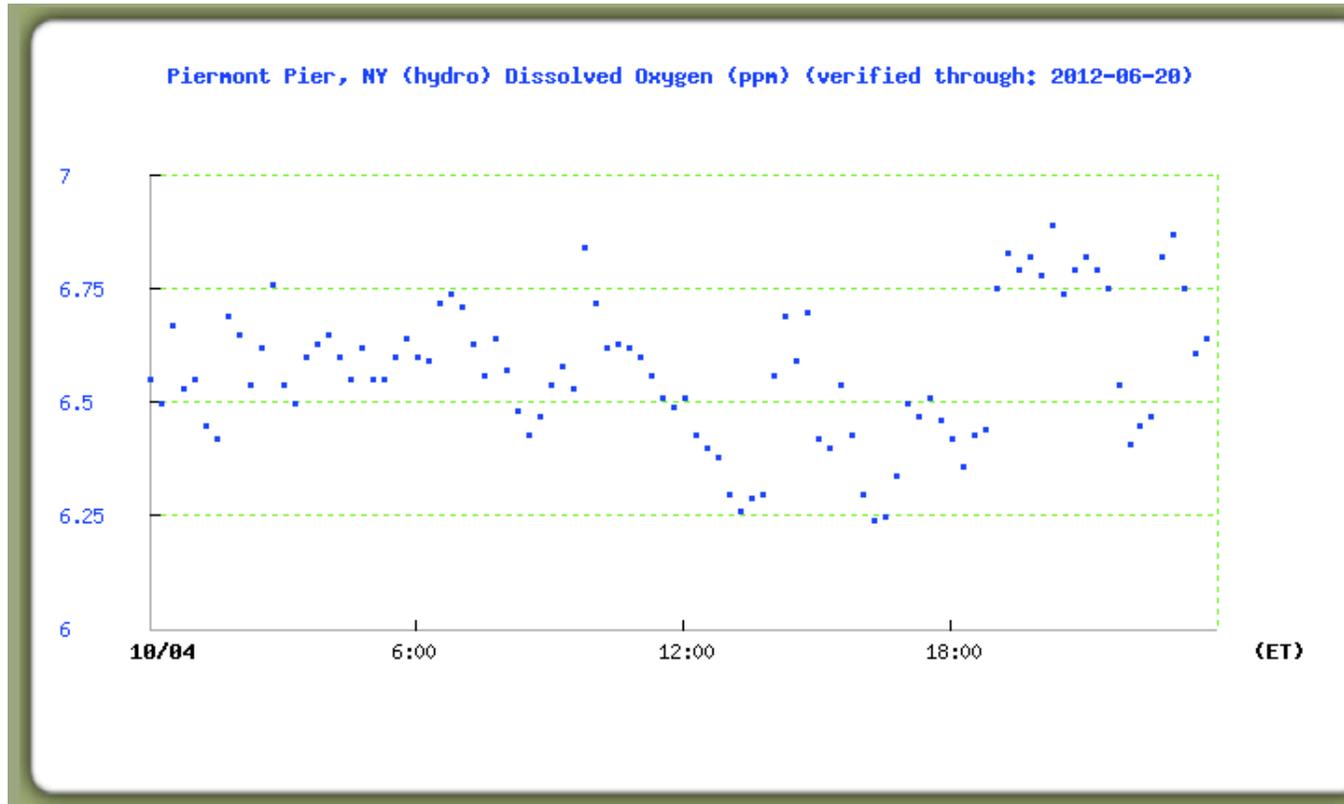
# Salinity



Dropping going into Day in the Life and continues to fall after.

# Predictions

- Dissolved Oxygen



# Vallisneria (Water Celery)

- Throughout the river Vallisneria amounts were low after Hurricane Irene tore through the system in August 2011.



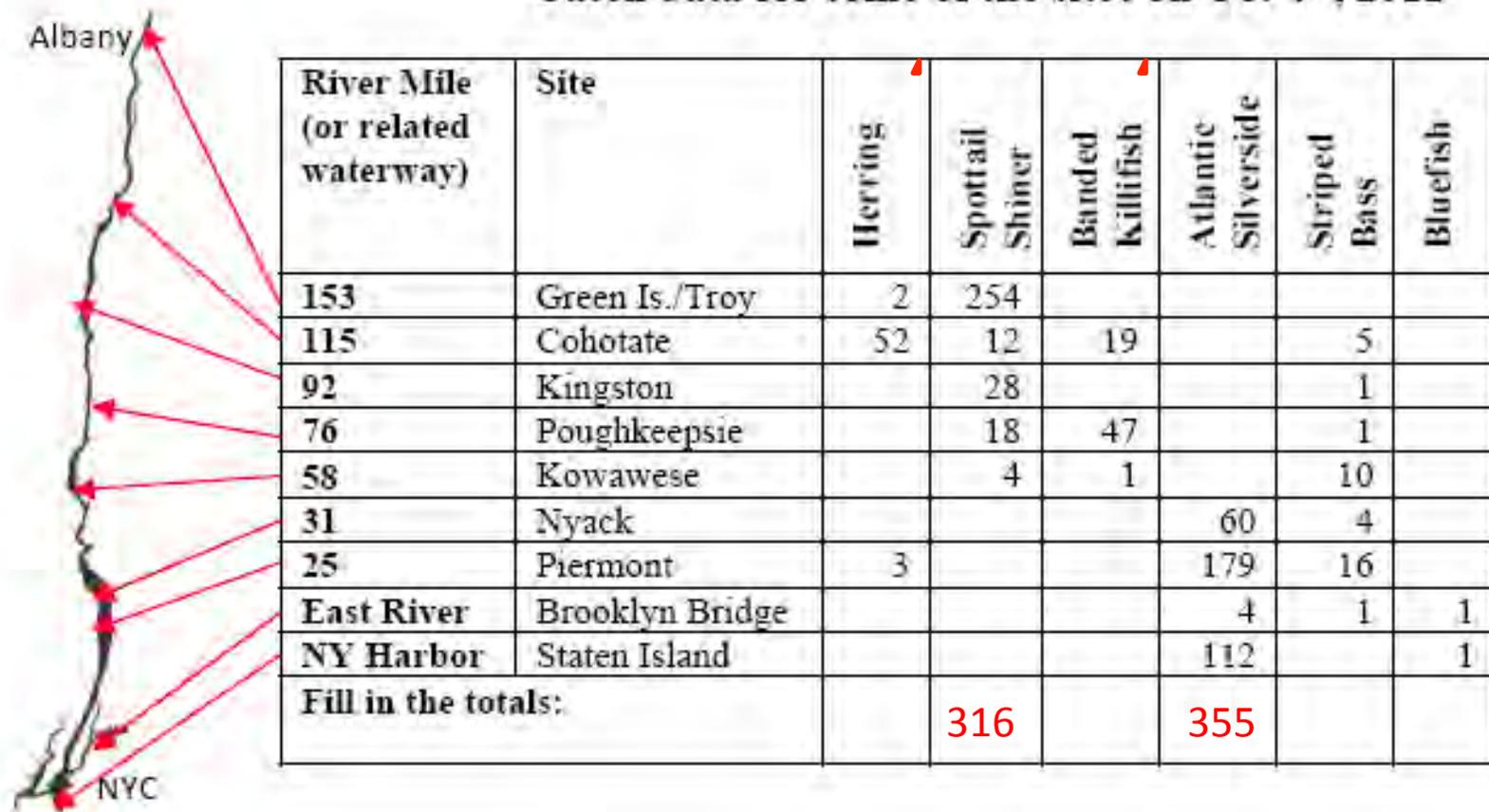
### Catch data for some of the sites on Oct 4<sup>th</sup>, 2012



River Mile (or related waterway)	Site	Herring	Spottail Shiner	Banded Killifish	Atlantic Silverside	Striped Bass	Bluefish
153	Green Is./Troy	2	254				
115	Cohotate	52	12	19		5	
92	Kingston		28			1	
76	Poughkeepsie		18	47		1	
58	Kowawese		4	1		10	
31	Nyack				60	4	
25	Piermont	3			179	16	
East River	Brooklyn Bridge				4	1	1
NY Harbor	Staten Island				112		1
<b>Fill in the totals:</b>							

For the sites listed, which fish was caught in the greatest numbers on October 4<sup>th</sup>?

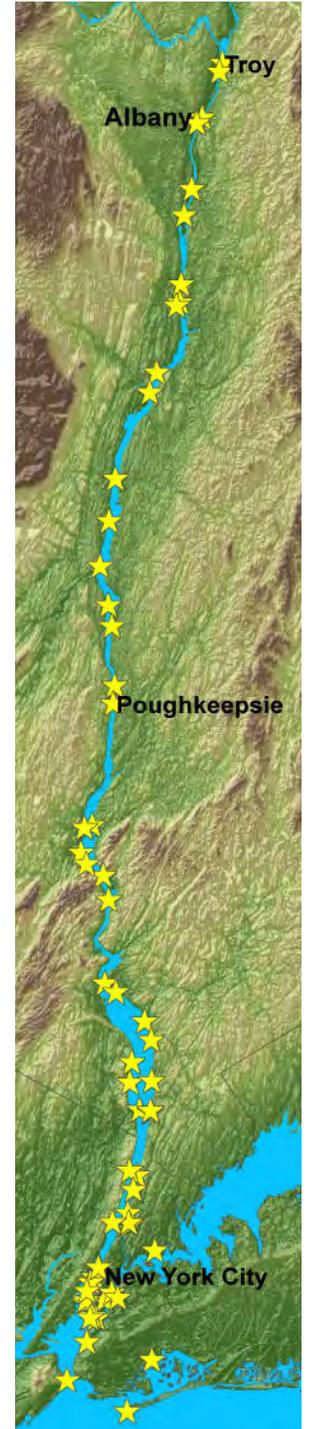
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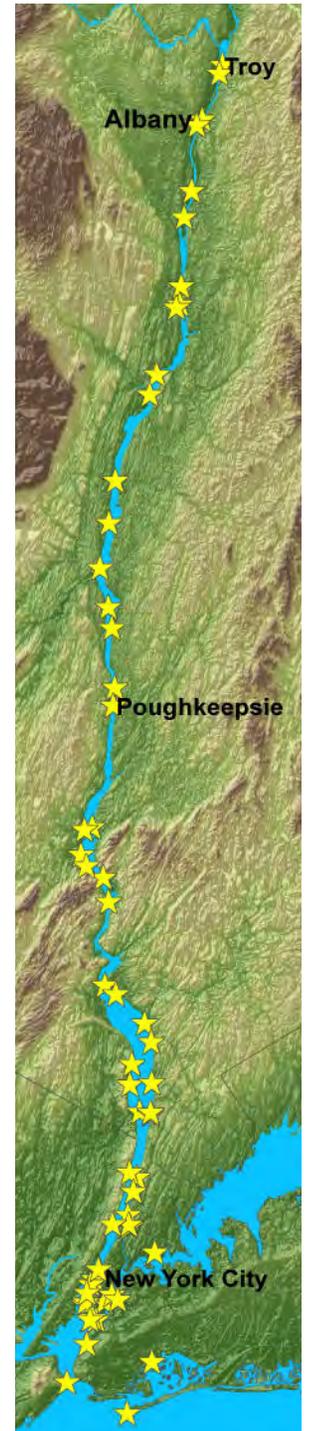
Atlantic silversides, with spottail shiners as a close second

# Hudson origin & down

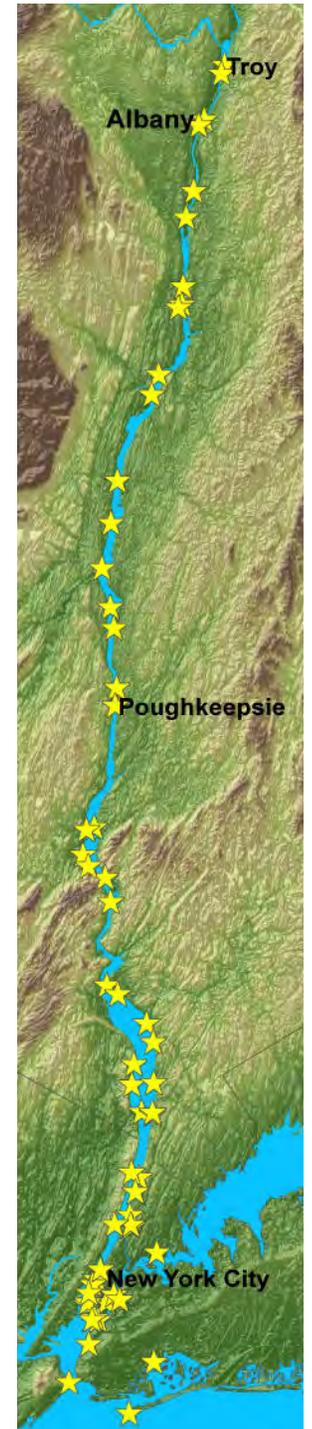


**The raging upper river looks dramatically different than the quite waterfront at Cohotate Preserve on 10/4/12**

# Black bears in the Upper Hudson/Adirondacks



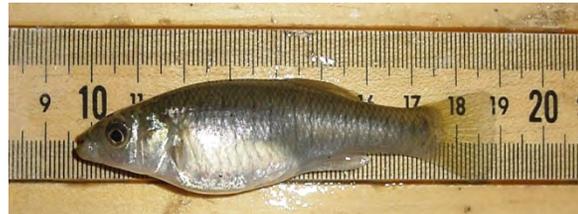
Blue Crab newly molted on the top  
with discarded shell below



# Spatial Data

(salinity and fish on October 4, 2012)

- Hudson NY RM 118: 0.087 ppt; banded killifish & sunfish



- Verplanck RM 41: 2.4 ppt; Atlantic silversides & striped bass



- Bay Ridge Flats RM -1: 23 ppt; seahorse & windowpane flounder



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Explore more at:

<http://www.ldeo.columbia.edu/edu/k12/snapshotday/>