

# Capt. Scott Ireland

Hudson River Pilots Association

What do pilots do and why  
do we need your data ?

645 ft long  
Bulk carrier  
loading scrap  
metal at  
Coeymans  
Terminal



Off Shady  
Harbor Marina,  
New Baltimore

Meeting/Passing  
barge traffic



Heavy Lift ship  
turning around  
in the Port of  
Albany

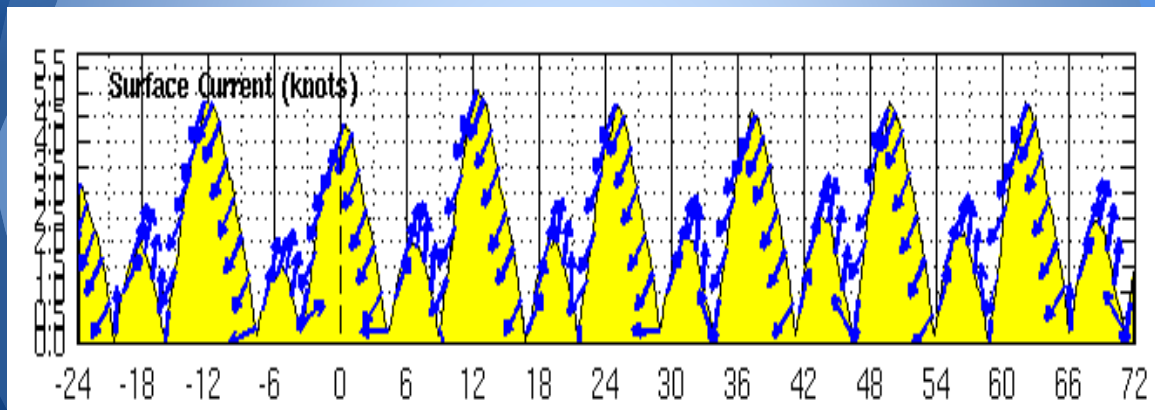


# Tide and Current predictions on the Hudson River.

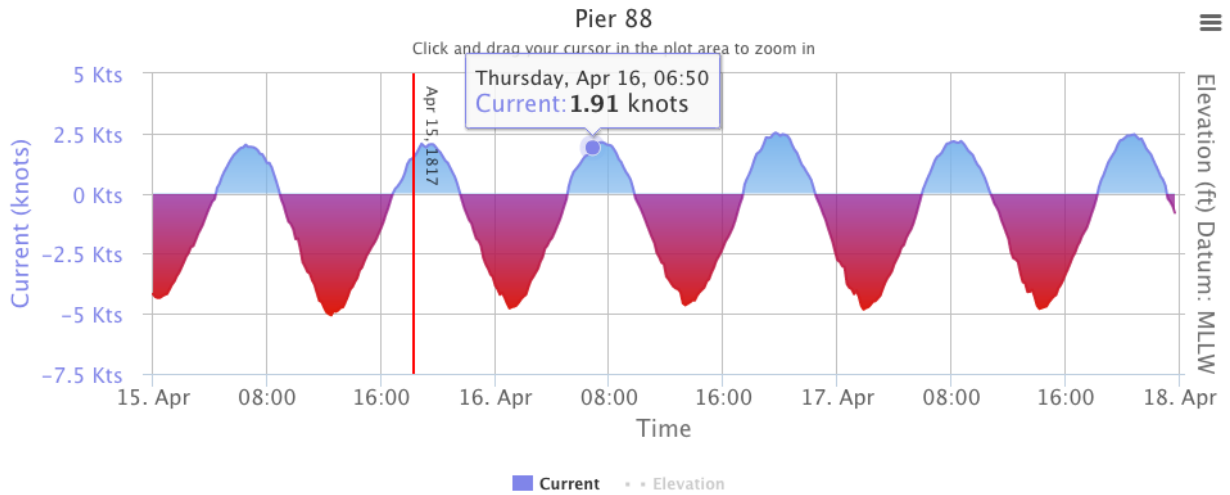
The data is great....but just what the heck am I looking at?

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Published current prediction



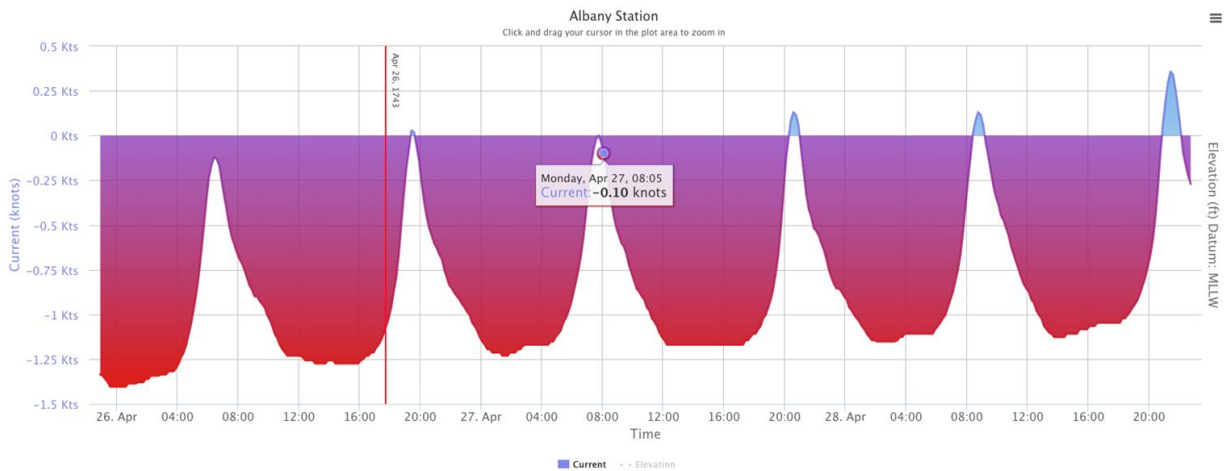
<https://mireland.herokuapp.com/#/>



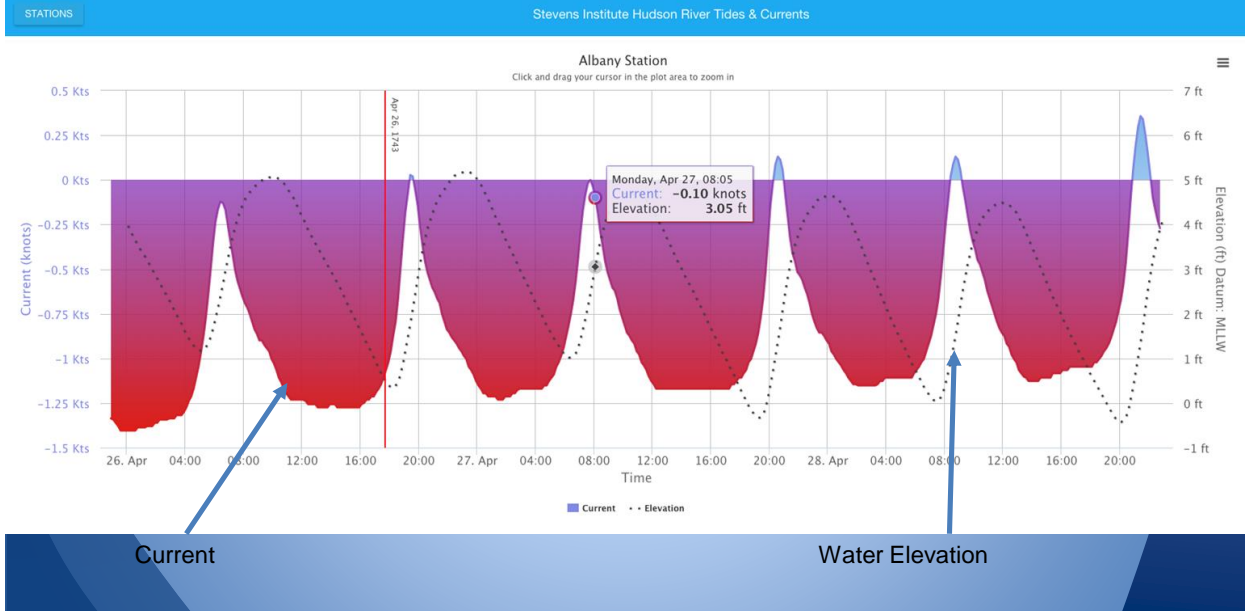
<https://mireland.herokuapp.com/#/>

STATIONS

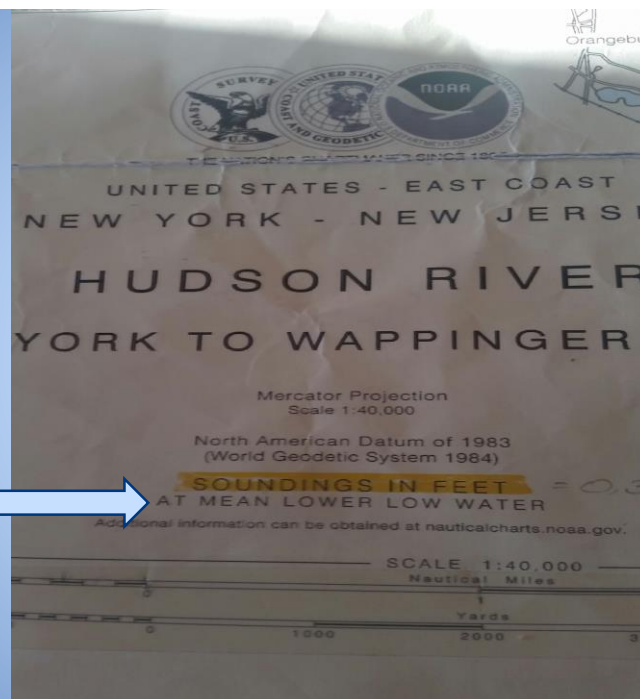
Stevens Institute Hudson River Tides & Currents



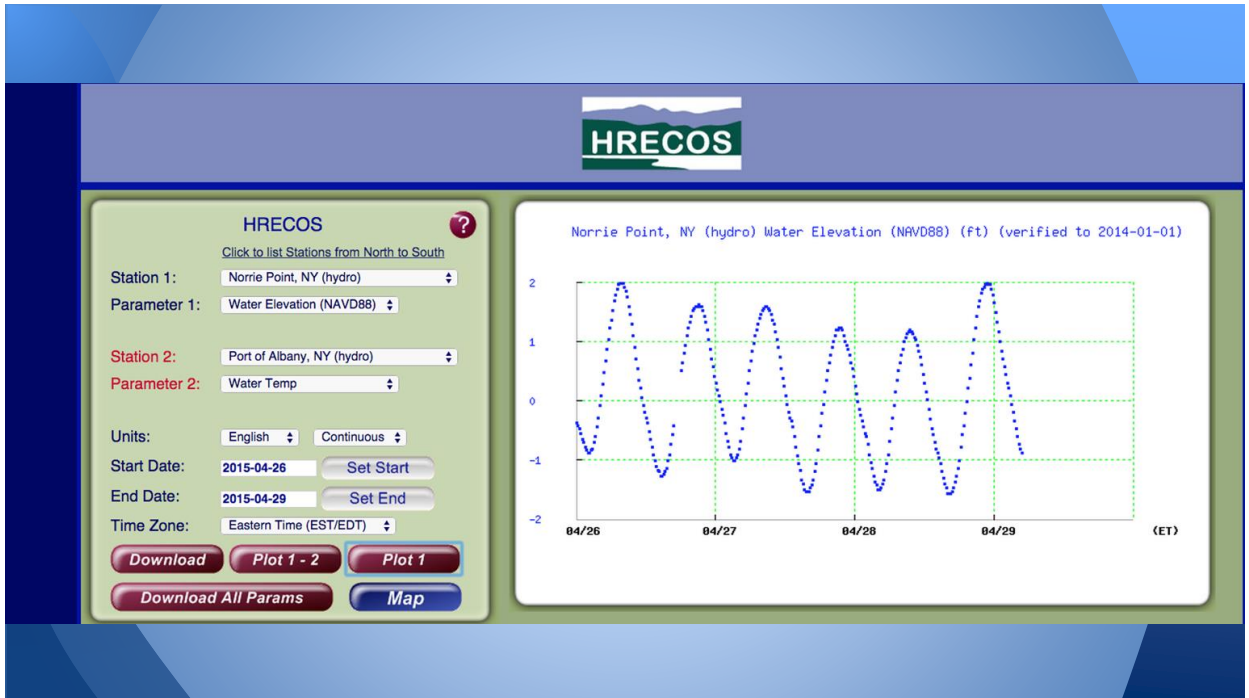
## Albany: Current and Water Elevation

<https://mireland.herokuapp.com/#/>

Picture  
taken  
from  
ship's  
NOAA/  
NOS  
chart







From NOAA:

Relative  
positions of  
different  
datums

#### Elevation Information

PID:	MZ1409
VM:	2399
Station ID:	8518995
Epoch:	1983-2001
Date:	Tue Oct 2 10:15:16 EDT 2012

6	MHHW	=	5.58 feet (1.702 meters)
5	MHW	=	5.20 feet (1.586 meters)
4			
3			
2	MSL	=	2.85 feet (0.869 meters)
	HTL	=	2.71 feet (0.827 meters)
1			
0	NAVD88	=	1.80 feet (0.549 meters)
	NGVD29	=	1.02 feet (0.312 meters)
	MLW	=	0.22 feet (0.067 meters)
-1	MLLW	=	0.00 feet (0.000 meters)

The NAVD 88 and the NGVD 29 elevations related to MLLW were computed from Bench Mark, 851 8995 A TIDAL, at the station.

Displayed tidal datums are Mean Higher High Water(MHHW), Mean High Water(MHW), Mean Tide Level(MTL), Mean Sea Level (MSL), Mean Low Water(MLW), and Mean Lower Low Water(MLLW) referenced on 1983-2001 Epoch.

# Thank You

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