

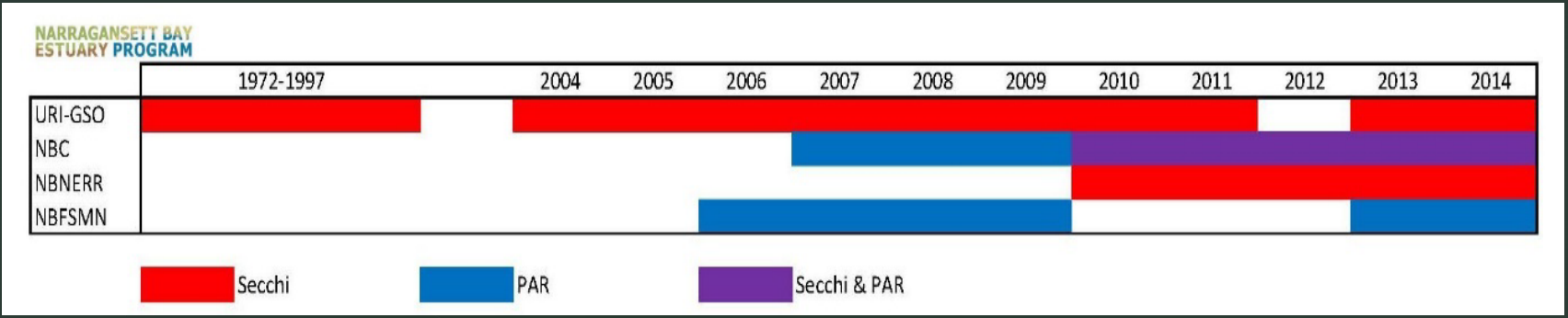


Water Clarity
Data Sources

Outline

- Data/Stations Used by NBEP
- Other Data Sources
- Who is Using/Sharing the Data

Stations Used By NBEP



Data Source	Station Name	Latitude	Longitude
NBC	India Point	41.81	-71.39
	Edgewood Yacht Club	41.77	-71.38
	Bullock's Reach Buoy	41.73	-71.37
	Conimicut Point	41.72	-71.35
NBFSMN	Mount Hope Bay	41.68	-71.21
	North Prudence	41.67	-71.35
	Poppasquash Point	41.64	-71.31
	Quonset Point	41.59	-71.38
NBNERR	T-Wharf	41.57	-71.32
URI-GSO	GSO Station 2 / Fox Island	41.56	-71.38
NBFSMN	GSO Dock	41.49	-71.41

Data Source: NBC

Website:

<http://snapshot.narrabay.com/app/WaterQualityInitiatives/WaterClarity>

Years Available: 2010-present

Type: PAR and Secchi; PAR meter is down currently, so most recent data (2019-2020) is Secchi only

Description: The Narragansett Bay Commission operates the two largest wastewater treatment facilities in Rhode Island. They also routinely take environmental data to support their efforts to reduce nutrient and bacterial pollution from wastewater. The water clarity data focus on the Providence-Seekonk River Estuaries. The data are collected **monthly during the fall, winter, and spring, and weekly during the summer.**

Data Source: NBFSMN

Website:

<http://www.dem.ri.gov/programs/emergencyresponse/bart/netdata.php>

Contact Heather directly

Years Available: 2006-2009; 2013-2019

Type: PAR

Description: The NBFSMN maintains PAR data at all buoy sites. Data were collected mostly during **June through September twice per month**. Certain years do have more PAR data, and Secchi depth information. Additional data are collected through this network as well, including chlorophyll fluorescence and dissolved oxygen concentrations.



Data Source: NBNERR

Website: none available; contact Daisy

Years Available: 2010-present

Type: Secchi

Description: NBNERR collects secchi depth measurements at two stations on Prudence Island. They collect data **year-round, approximately twice per month**. NBNERR also participates in the Narragansett Bay Fixed Site Monitoring Network using the T-Wharf station, and provides additional nutrient and environmental data to a NERR network through their central data management organization.

Data Source: URI – GSO

Website: <https://web.uri.edu/gso/research/plankton/> (1998 to present); <https://www.nabats.org/nabats-data.html> (prior to 1998)

Years Available: 1972-1997; 1998-present

Type: Secchi

Description: Since 1959, the University of Rhode Island – Graduate School of Oceanography has maintained a phytoplankton survey time series in the West Passage of Narragansett Bay. They collect phytoplankton and environmental data, including water clarity, **weekly** from the same location.



Data Source: Others?

- These are the data sets I used for the State of the Watershed Report.
- Are there other data sources we should consider?
 - URI Watershed Watch
 - Remote Sensing
 - Bay Ecosystem Time Series (BETS; EPA initiative)
 - EPA NCCA

Using/Sharing the Data

- Available Databases
 - All the data sources share the data publicly
- Reports
 - NBEP State of Narragansett Bay and Its Watershed
 - Others?
- Peer-reviewed literature
- Public Sharing of key findings?
 - Report cards
 - Websites