







NEWRnet Annual Meeting April 15, 2016 Data Management, Archiving and Visualization



Progress to Date...

- Data are being collected and archived in Aquarius databases in each of the NEWRnet States.
- Sensor data are also being collected by UD from each site in the NEWRnet Network at 3-hour intervals. These data are being added to a "project" Aquarius database on a UD server.
- Data are undergoing a basic level-0 QA/QC procedure.
 Final site specific QA/QC is being performed by the lead PI's for each site.

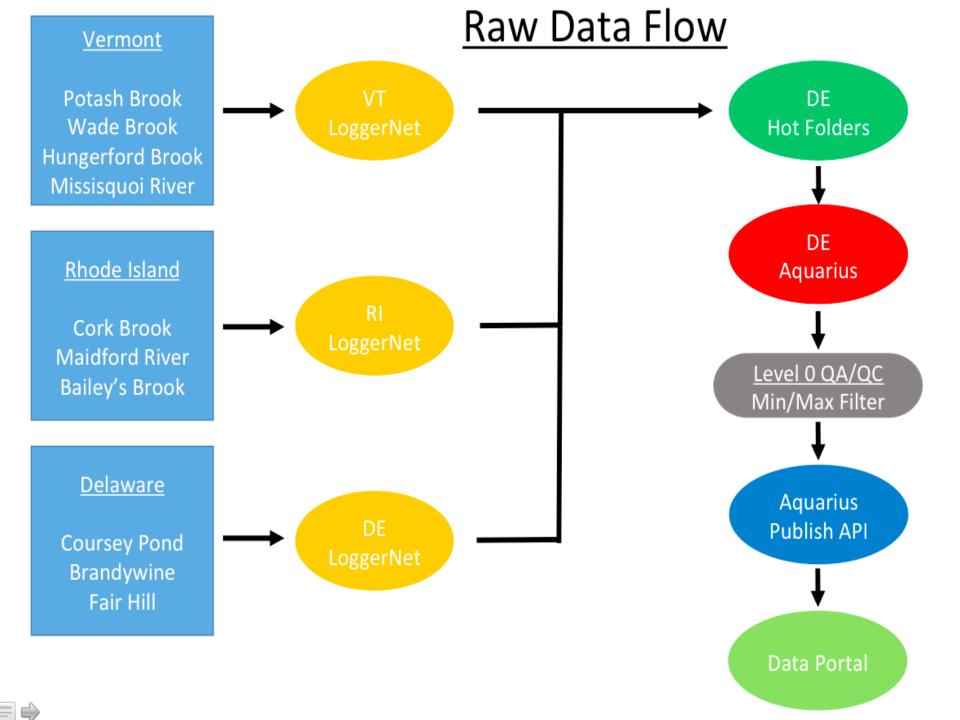


Progress to Date (cont.)

 Site specific metadata and near real-time level-0 sensor data are available on the NEWRnet Project Data Portal.

http://npws01.deos.udel.edu/hughes/newrNet/index.php

This URL will change once testing is complete.





NEWRnet Project Data Portal



Home

Data

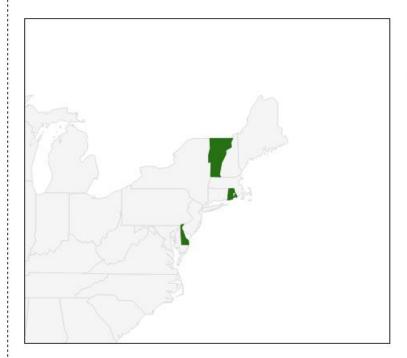
Contact



About Us

The North East Water Resources Network is a collaborative research effort across Vermont, Rhode Island, and Delaware. The purpose of this project is to develop an integrated network of advanced water sensors to acquire real-time, high-frequency water quality data that will advance our understanding of the drivers of local and regional water quality, and in concert use the fields of experimental economics and agentbased modeling to determine how stakeholders as individuals and groups respond to this new technology. This project is funded by the EPSCoR NEWRnet Grant.

Regional View of NEWRnet Locations



Select a station to view data

Vermont

- · Potash Brook
- Wade Brook
- · Hungerford Brook
- Missiquoi River

Rhode Island

- · Cork Brook
- Maidford River
- · Bailey's Brook

Delaware

- · Coursey Pond
- Brandywine
- Fair Hill



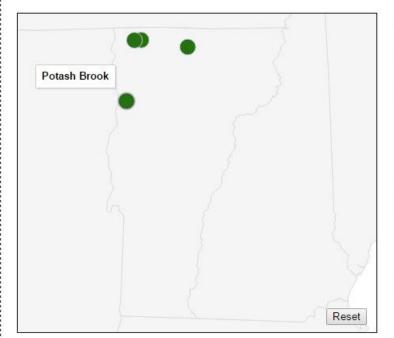
ome Data Contac



About Us

The North Fast Water Resources Network is a collaborative research effort across Vermont, Rhode Island, and Delaware. The purpose of this project is to develop an integrated network of advanced water sensors to acquire real-time, high-frequency water quality data that will advance our understanding of the drivers of local and regional water quality, and in concert use the fields of experimental economics and agentbased modeling to determine how stakeholders as individuals and groups respond to this new technology. This project is funded by the EPSCoR NEWRnet Grant.

Regional View of NEWRnet Locations



Select a station to view data

Vermont

- · Potash Brook
- · Wade Brook
- Hungerford Brook
- Missiquoi River

Rhode Island

- Cork Brook
- Maidford River
- Bailey's Brook

Delaware

- · Coursey Pond
- Brandywine
- Fair Hill







Vermont

Potash Brook

- Wade Brook Hungerford Brook
- Missisquoi River

Rhode Island

Cork Brook Maidford River Bailey's Brook

Delaware

Coursey Pond Brandywine Fair Hill

Water Temperature

A physical measurement of the average kinetic energy within the sample.

and parameter to view recent data.



kinetic





· Station ID:

- · Principal Investigator:
- · Location:
- · Elevation:
- · Start of Record:
- · Primary Land Use:

Select a station and parameter to view re

Water Temperature

Exosonde

Water Temperature

Specific Conductance

Conductivity

Depth

рН

Turbidity (Exo)

Fluorescent Dissolved Organic Matter

Dissolved Oxygen (% saturation)

Dissolved Oxygen (concentration)

Spectrolyser

Turbidity (Spect)

Nitrate Concentration

Total Organic Carbon

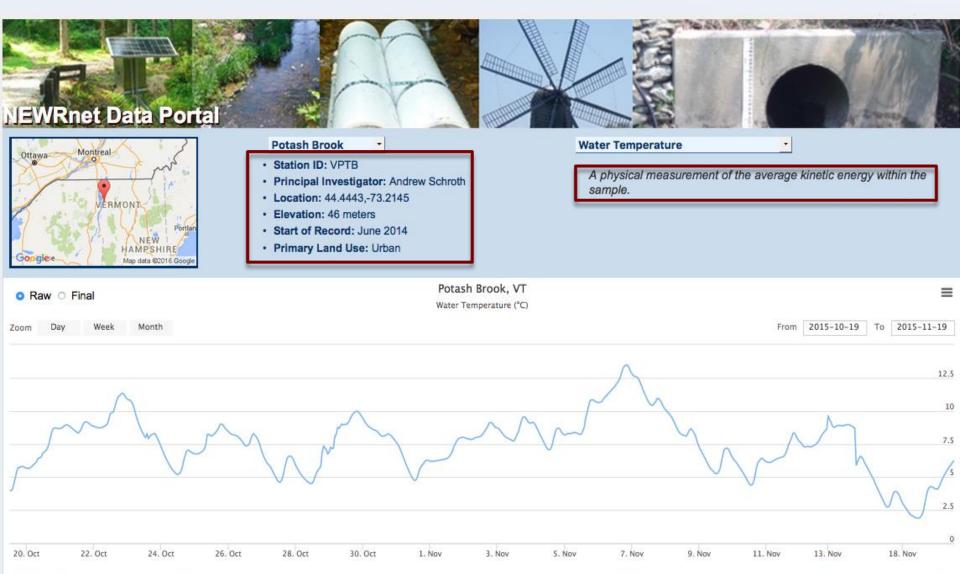
Dissolved Organic Carbon

UV254 Absorbance

Votage

Cable

Battery



Data Disclaimer

2. Nov

9. Nov

16. Nov

Highcharts.com

26. Oct

19: Oct





Contact Information

The North East Water Resources Network (NEWRnet) is a collaborative research effort across Vermont, Rhode Island, and Delaware to develop an integrated network of real-time, high-frequency data to better understand influences on local and regional water quality. For more information about NEWRnet project and collaborators, please visit our site (newmet.org). Below is a list of the primary contacts for each NEWRnet sensor group organized by state.

Delaware Sensor Locations



Scott Andres Stations: Coursey Pond Title: Senior Scientist Email: asandres@udel.edu Phone: (302) 831-0599



Shreeram Inamdar Stations: Fair Hill, Brandywine Title: Professor, Plant & Soil Science Email: inamdar@udel.edu Phone: (302) 831-8877



Rhode Island Sensor Locations



Kelly Addy Stations: Cork Brook, Maidford River, Bailey's Brook Title: Research Associate IV Email: kaddy@uri.edu Phone: (401) 874-7532



Vermont Sensor Locations



Andrew Schroth
Stations: Potash Brook, Wade Brook,
Hungerford Brook, Missiquoi River
Title: Assistant Research Professor
Email: Andrew.Schroth@uvm.edu



Home Data

Links

Contact

EPSCoR









Future Work...

- Setup data transfer mechanism from individual Pls to UD for inclusion of QA/QC'd data in the NEWRnet Data Portal.
- Long-term archiving and visualization of level-0 and "final" QA/QC data will be provided by the EPSCoR funded Delaware Environmental Monitoring and Analysis Center (DEMAC).