



Otsego Lake Water Quality Constant Monitoring System (Otsego County, NY)

Supported by NYS Water Resource Institute Small Grants Program

<http://employees.oneonta.edu/yokotak/YokotaLimnoLab/> OR

<http://www.otsegolakeassociation.org/buoy-data.html>

Otsego Lake Buoy	
Otsego Lake, NY, USA - X2-CB-C-VZ3G-20002	
at 02-20-2018 21:30:00	
Air Temperature	15.10 C
Relative Humid...	77 %
Rel. Barometric...	1019.2 hPa
Wind Speed	2.3 m/s
Max Wind Sp	3.4 m/s
Rain Intensity	0.0 mm/h
PAR	2 umol/s/m2
Powered By WQData LIVE	

Why?

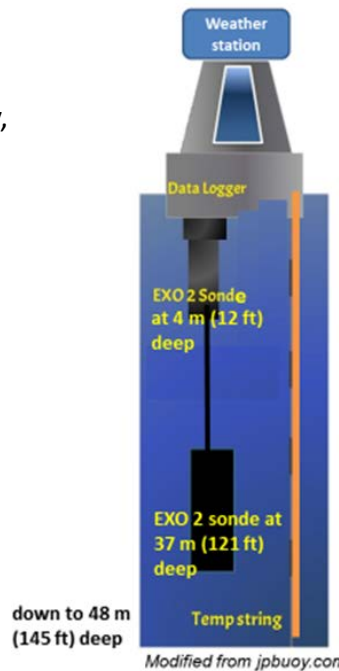
- High frequency & resolution data are needed to monitor & predict changes in lake water quality, including harmful algal blooms
- Data compatible for regional & global analyses through the Global Lake Ecological Observatory Network (gleon.org) & SUNY Lakes Ecological Observatory Network (Fredonia, Oneonta & New Paltz)

How?

- Collects & transmits 46 water quality & weather parameters every 15 min, 24/7, during ice-free seasons (weather data only during winter)
- Full data set archived at a data center & shared with other researchers upon request; select real-time data shared with the public through above web sites

Broader impacts (beyond scientific research mentioned above)

- Real-time weather & water condition data for the public
 - paddlers, boaters, sailors, swimmers, & anglers
 - local businesses (e.g., marinas, resorts, tour boats)
- Locally relevant environmental data set for K-12 STEM
 - e.g., graph & compare air & water temperature at different depths
- Training opportunities for technical SCUBA diving
 - 7 SUNY Oneonta students to date



EXO 2 sonde with multiple probes for different water quality parameters



Nexsens CB-950 buoy frame



Co-principal investigators

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