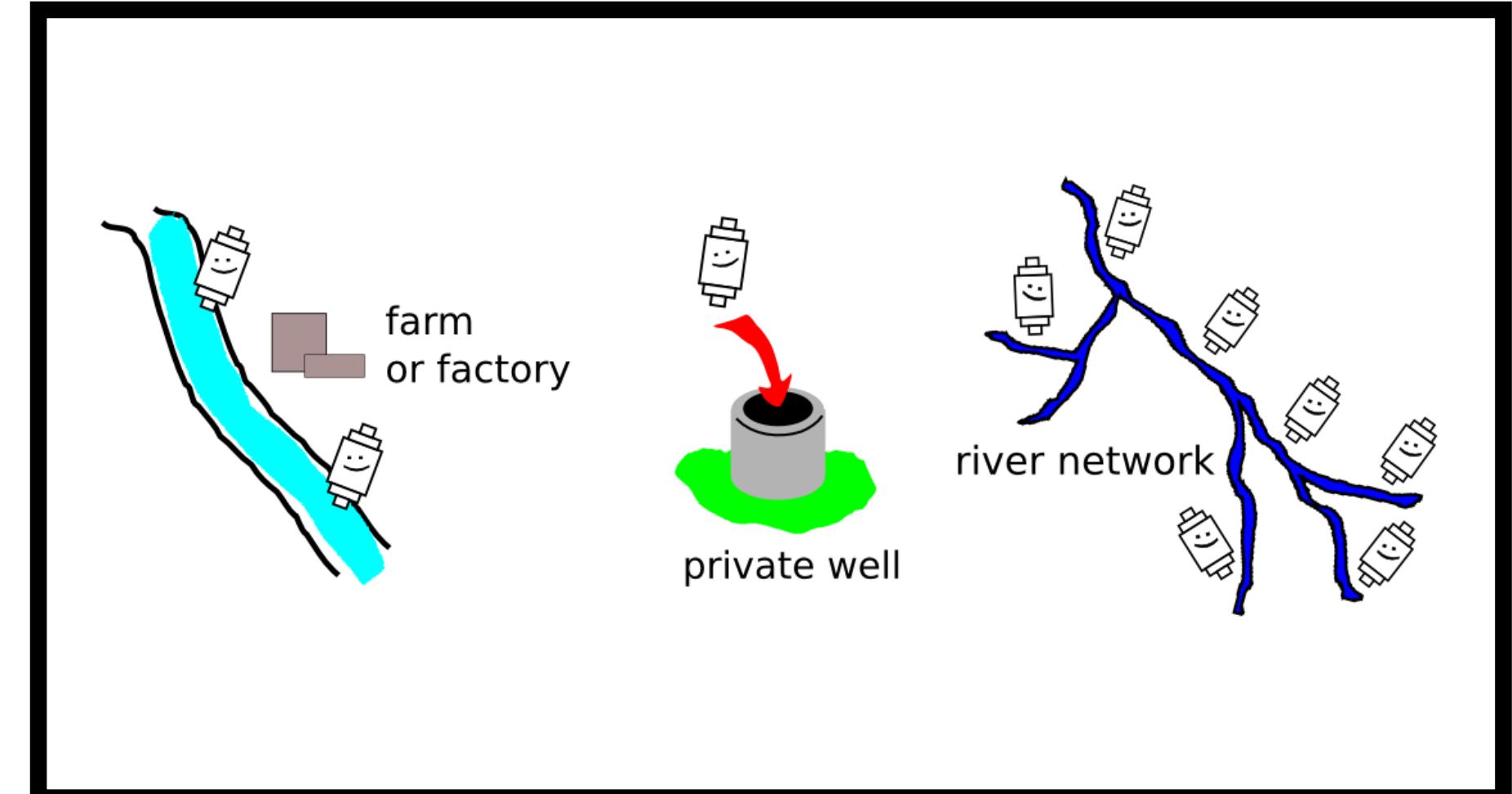
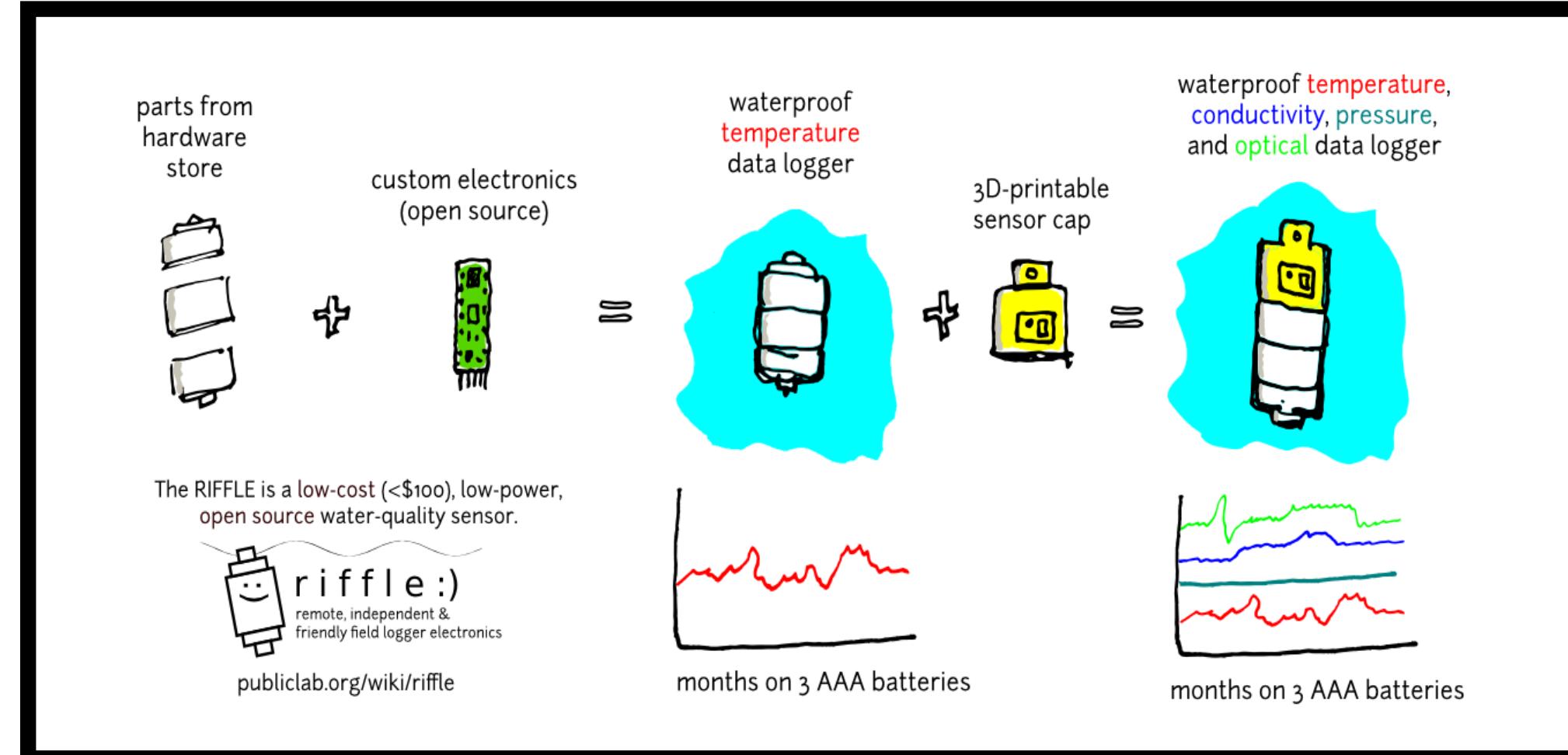
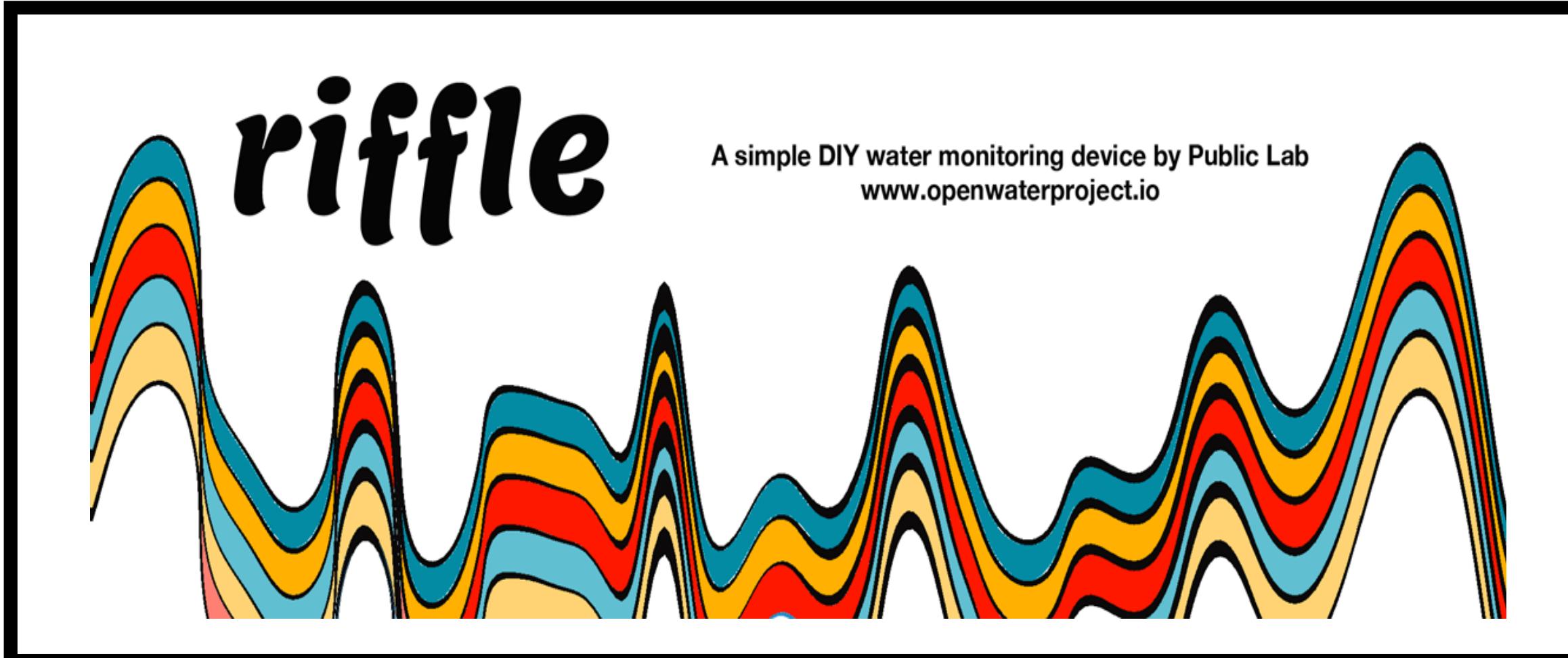


# AN OPEN SOURCE WATER QUALITY MONITOR

# THAT USES ACCESSIBLE TECHNOLOGY

# TO IDENTIFY POLLUTION PATTERNS



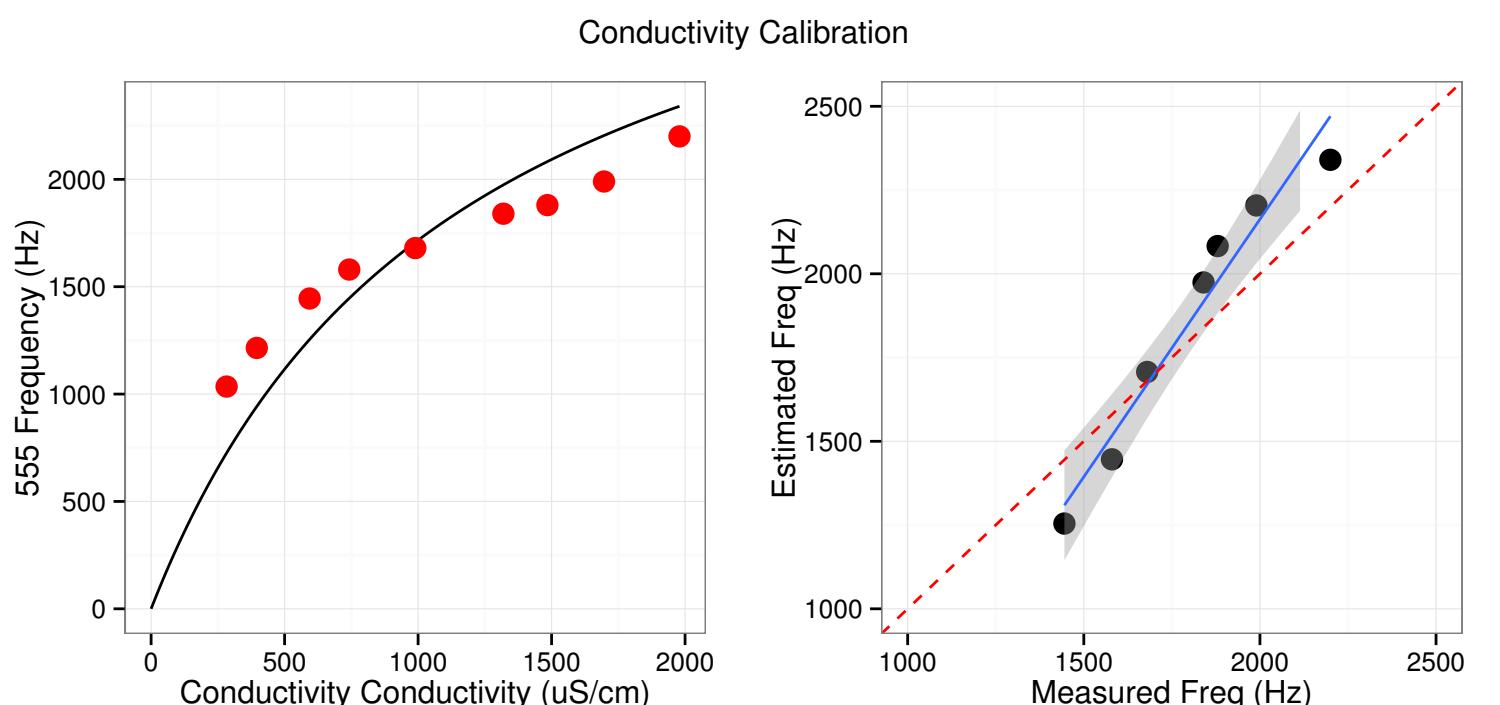
MEASURES TEMPERATURE, CONDUCTIVITY & LIGHT

COSTS ~ \$100 USD

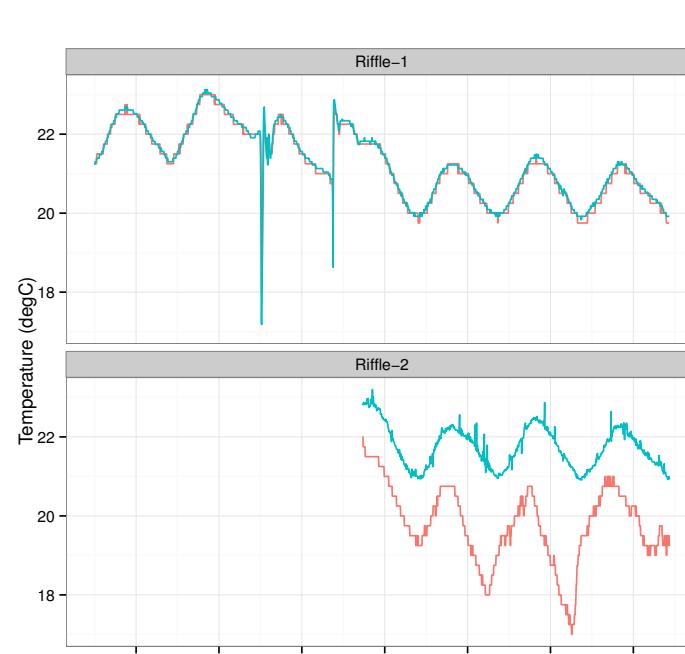
FUTURE FEATURES: TURBIDITY, DEPTH, RADIO



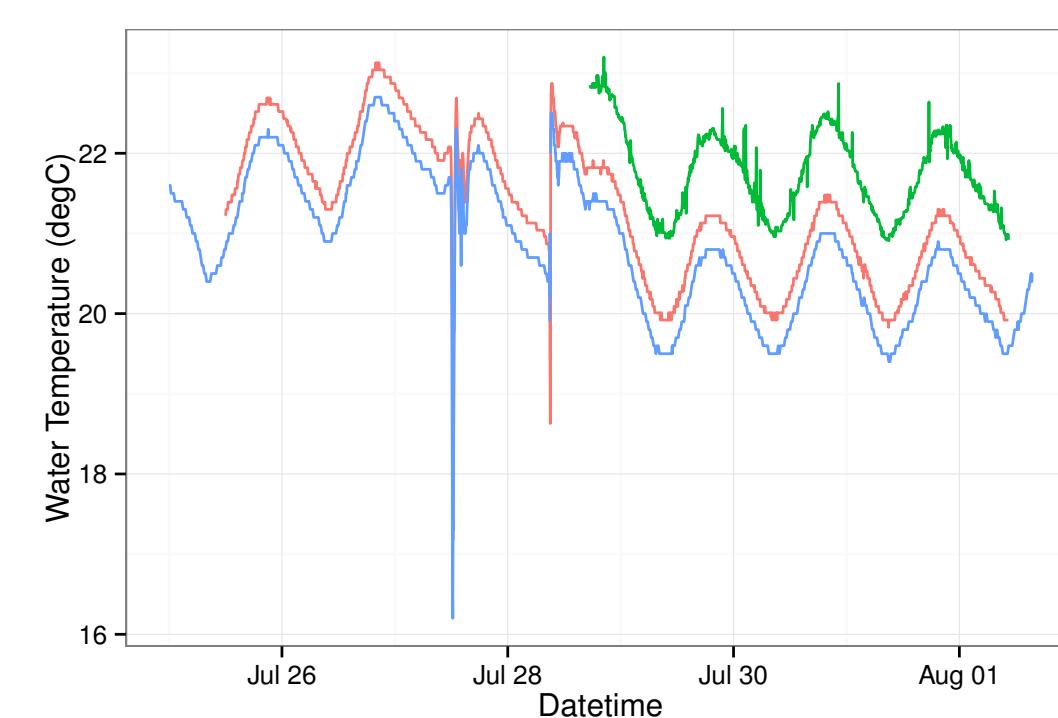
1ST TRIAL: JULY 28 - AUG 1   ■   USGS 01104455 STONY BROOK NEAR WALTHAM, MA:



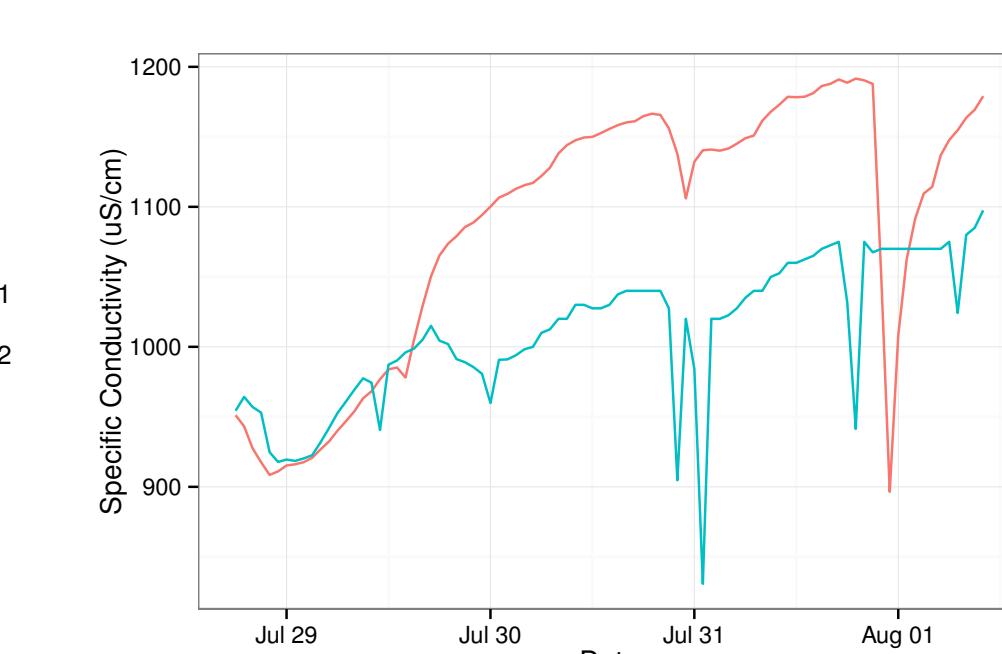
The conductivity sensor is calibrated at home using homemade solutions of table salt and water



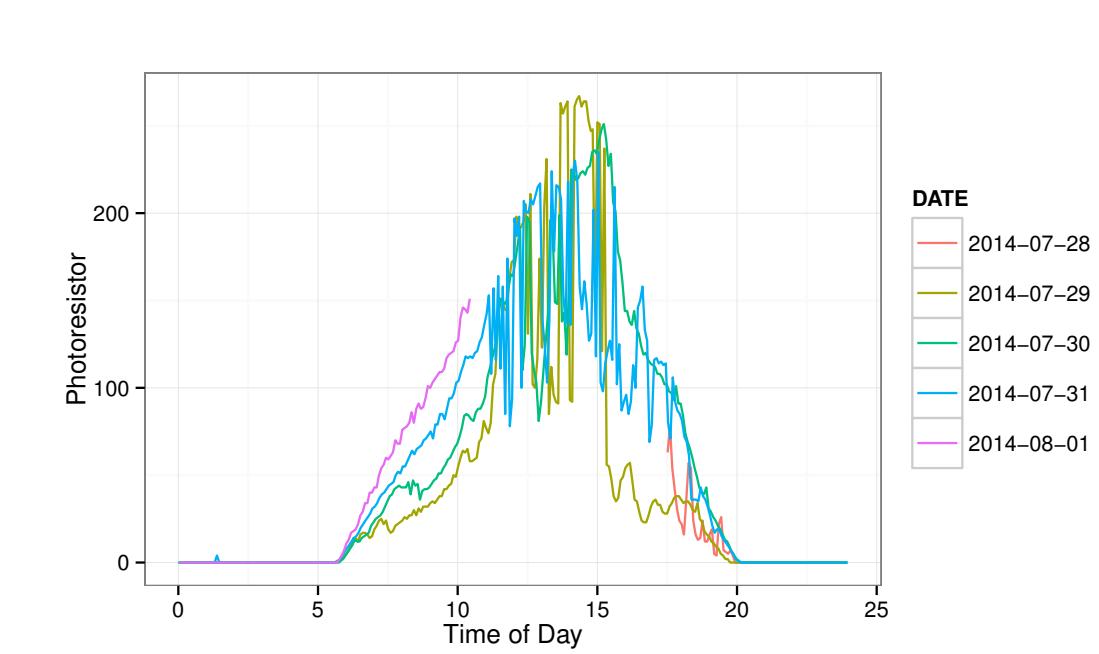
Redundant on-board temp sensors can detect mis-calibration



Temperature probes track USGS data



Conductivity measurement shows promise (needs further work)



Light sensor tracks diurnal cycle

Please join our community and help us to create a sustainable, grassroots water quality monitoring network.

Our team of researchers, journalists, resource managers, advocacy groups, and educators includes:

- Mark Green, Hydrology, Plymouth State
- Kathryn Booras, Cambridge Water Dept.
- Heather Craig, Center for Civic Media, MIT
- Mary Martin, Forest Ecosystem Analysis, UNH
- Catherine D'Ignazio, Journalism, Emerson College
- Lily Bui, Comparative Media Studies/Writing, MIT
- Patrick Herron, Mystic River Watershed Association
- Jeff Walker, Postdoctoral researcher, UMass Amherst and USGS

The Open Water Project is an initiative of Public Lab, a non-profit community that applies an open source, DIY ethos to grassroots environmental investigation.



<http://openwaterproject.io>