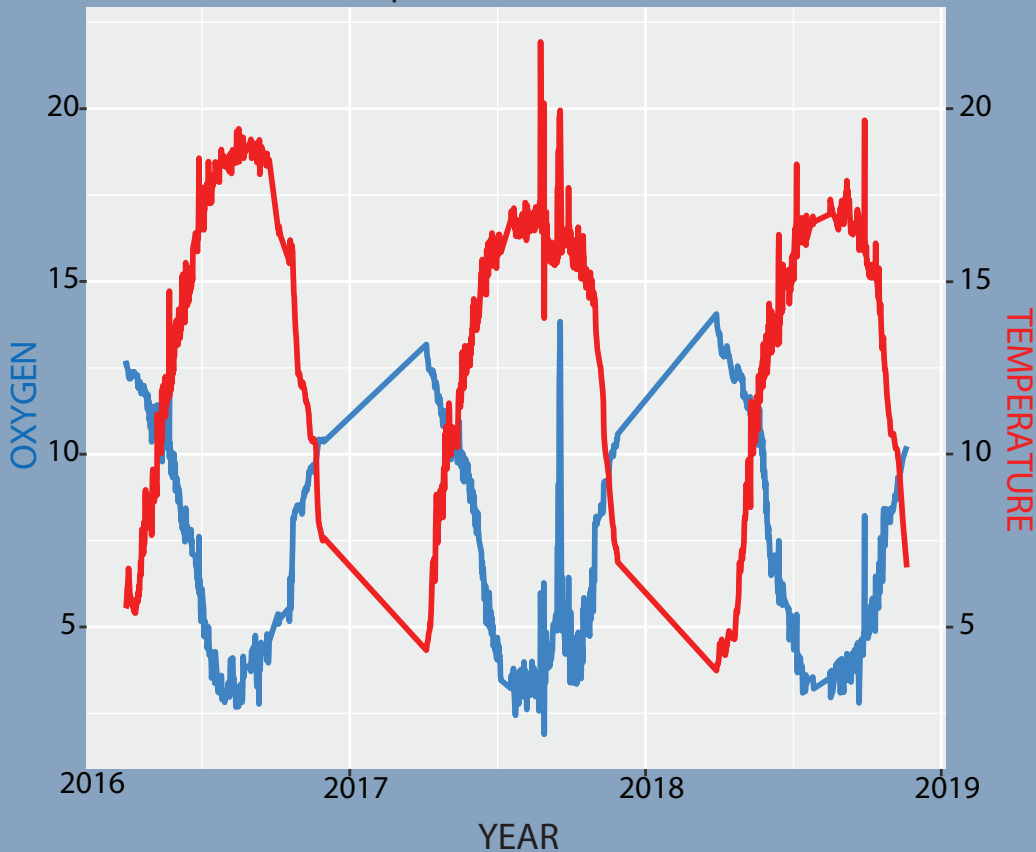


Dissolved Oxygen Levels in Onondaga Lake

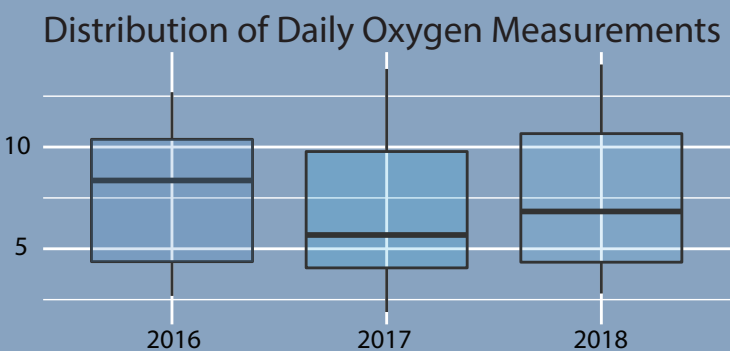
by Nina Williams, Kristin Akervall, Will Holt, Conrad Tavarez

What is the relationship between weather and dissolved oxygen in the water?

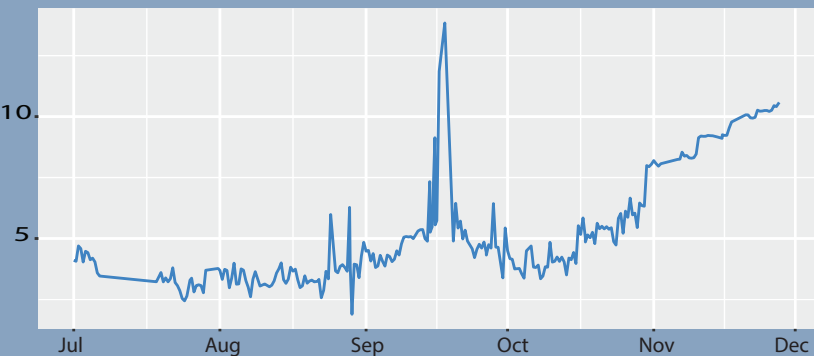
Dissolved Oxygen Levels (milligrams per liter) and Temperature in C have an inverse relationship



The Water Quality Monitoring Buoy provides continuous monitoring of the water quality of Onondaga Lake in New York. This information is used to determine if the lake is safe for water recreation and supportive of the natural plant and animal habitat at the lake. Dissolved oxygen is one of the most important indicators of water quality. It is essential for the survival of fish and other aquatic organisms.

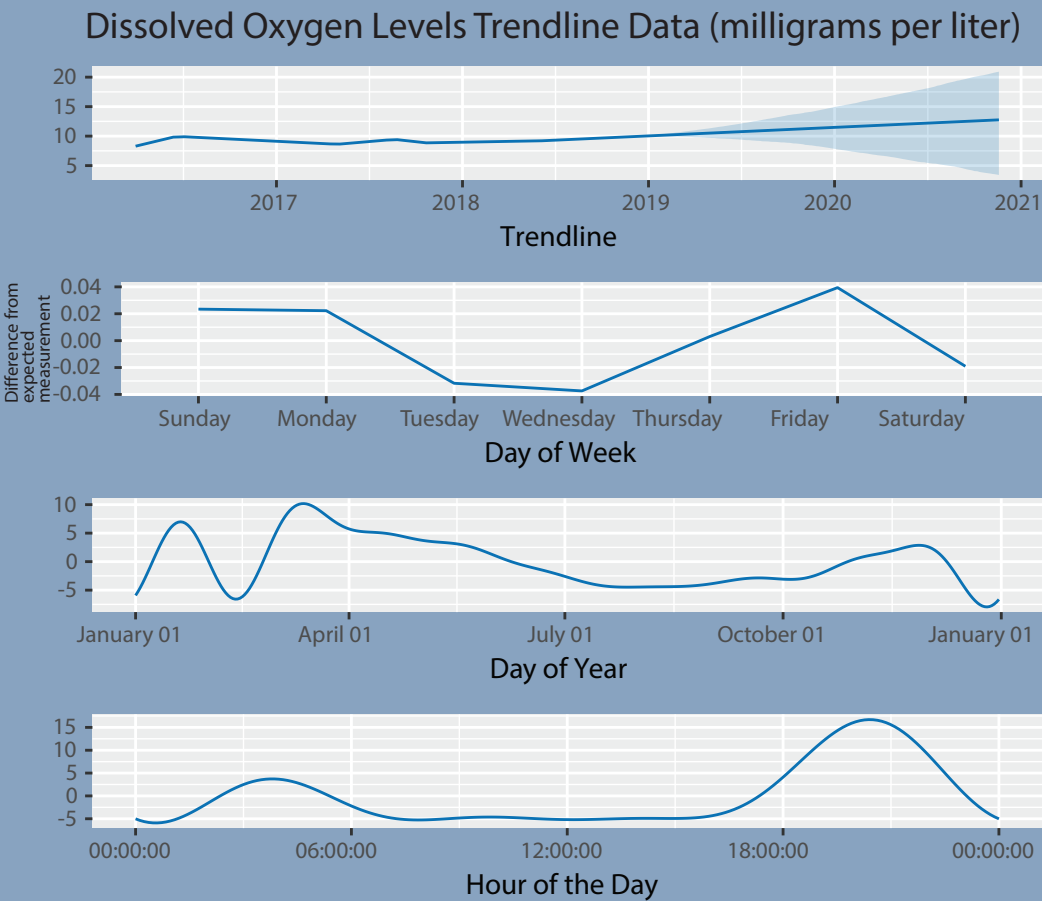
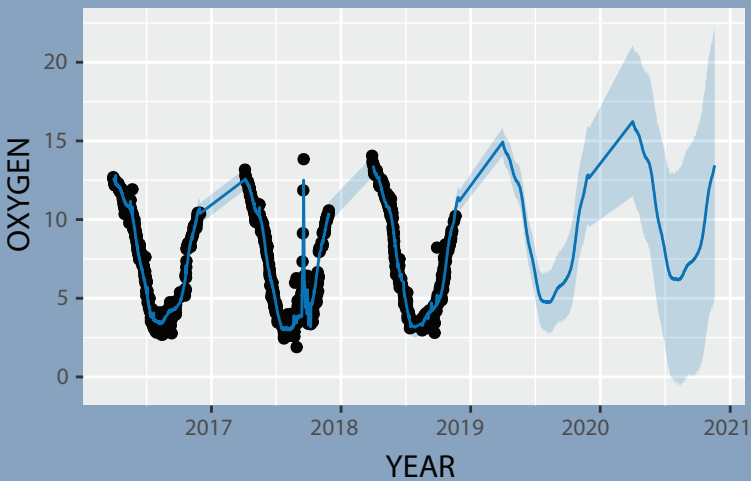


Dissolved Oxygen Levels (milligrams per liter) in 2017



What is the forecasted dissolved oxygen projections for 2020?

Average dissolved Oxygen Levels (milligrams per liter) and Future Projections



Data Source: Onondaga County Department of Water Environment Protection and Upstate Freshwater Institute; 2016-2018 data from South Deep station, prepared by K. Russell, Anchor QEA, LLC; Syracuse Airport Meterological Station, NOAA National Climate Data Center (<https://www.ncdc.noaa.gov/cdo-web/datasets#GHCND>) 2016-2018 data from Station USW00014771 (SYRACUSE HANCOCK INTERNATIONAL AIRPORT, NY US) <http://www.ongov.net/wep/live-water-quality-data-from-the-lake.html> <http://www.ongov.net/wep/water-quality-monitoring.html> http://www.sarasota.wateratlas.usf.edu/shared/learnmore.asp?toolsection=lm_dissolvedox