Lake Stewards of Maine



Casco Bay Monitoring Network
2024-05-14

Lake Stewards of Maine (LSM) Mission

is to protect Maine lakes and to promote lake stewardship through widespread citizen participation in the gathering and dissemination of credible scientific information pertaining to lake health.





LSM General Info

The oldest, and one of the largest state-wide citizen lake monitoring programs in the U.S.

Training and technical support for thousands of volunteer citizen scientists statewide

546 lakes are actively monitored by over 1,200 certified monitors



Collect water quality data on ~85% of all Maine lake acreage



Held 54 WQ training sessions

Over 55 new volunteers trained; over 250 volunteers recertified

Over 2,000 unique WQ sampling events took place and LSM staff reviewed over 1,500 volunteer datasheets

No alum applications were performed in 2023, but Togus this year





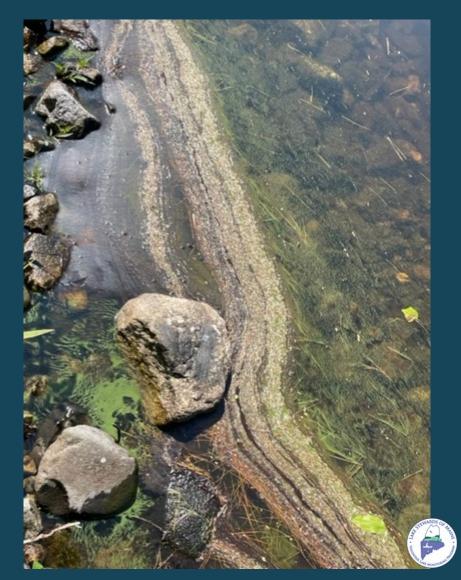
Wet early season, "grey summer overall"

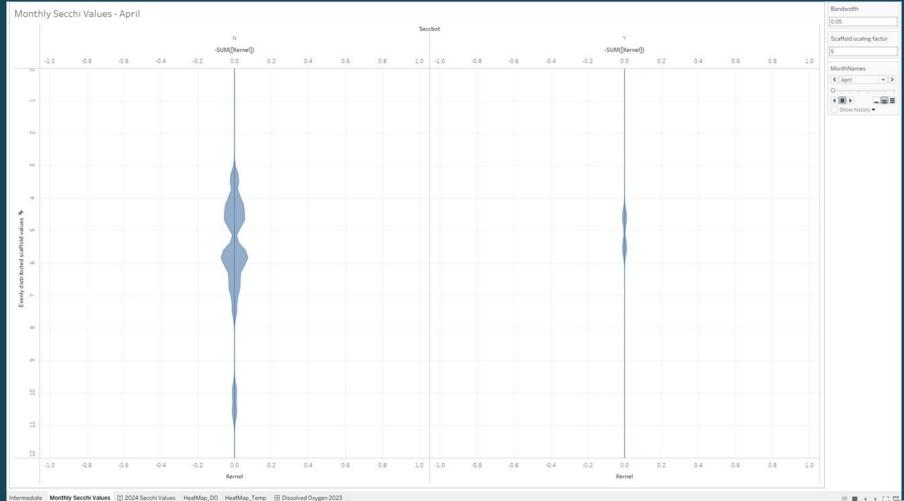
Average temp for surface water: 21.22°C (stdev 5.15). As compared to 21.27°C in 2023. Bias with condition, location, and time periods, but this still illustrates fairly little difference in water temperature versus 'warmer, sunnier' summers. Lakes 'integrate' heat.

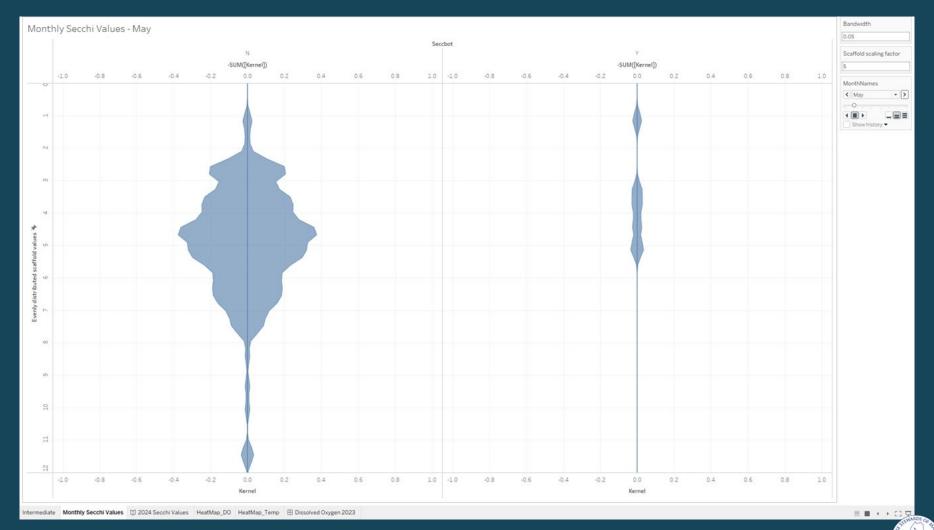


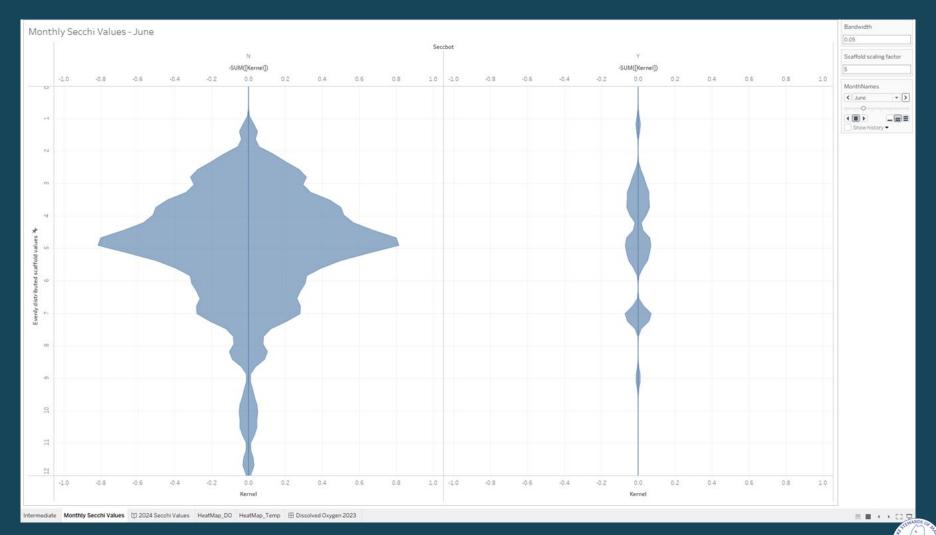
Few (relatively) cyanoblooms in the state. Notably for Casco Bay Watershed: Watchic. Statewide higher dissolved organic carbon / tannin levels. Very high water levels and, sadly, lots of erosion.

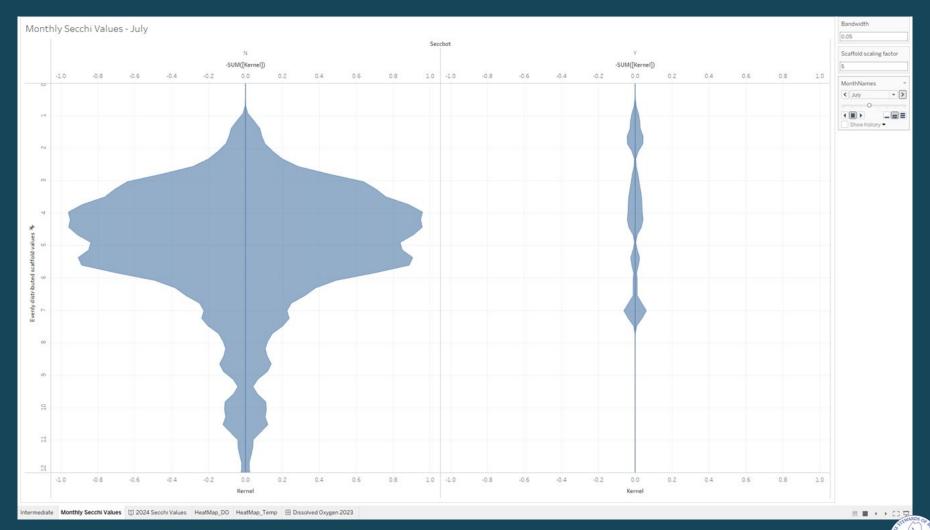


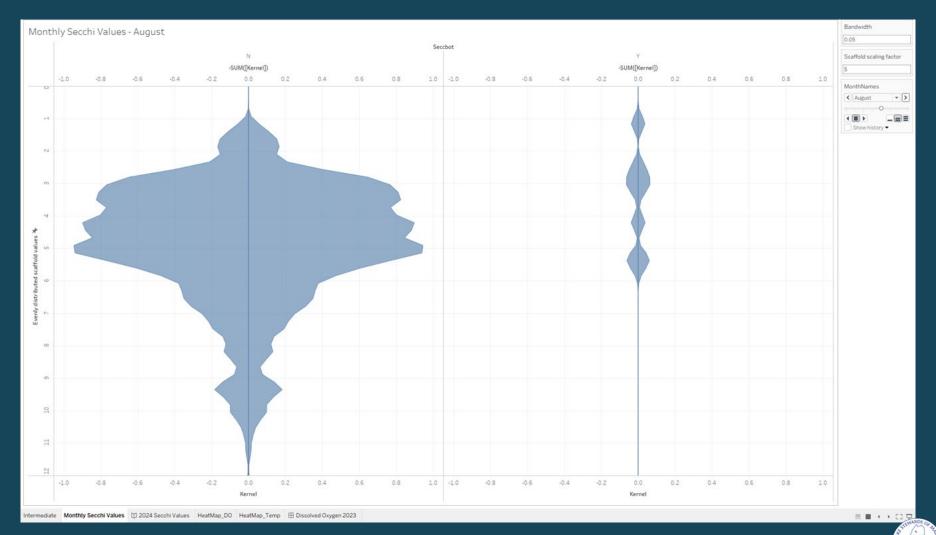


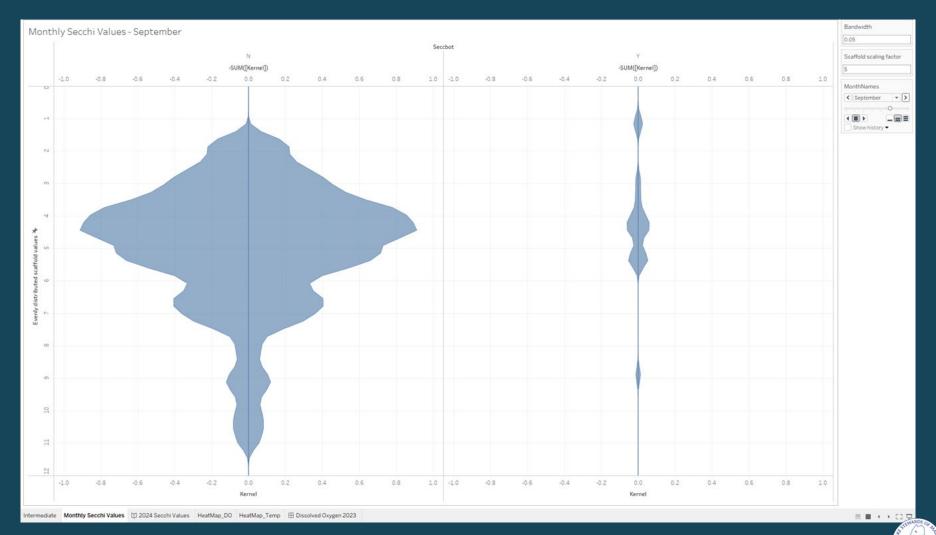


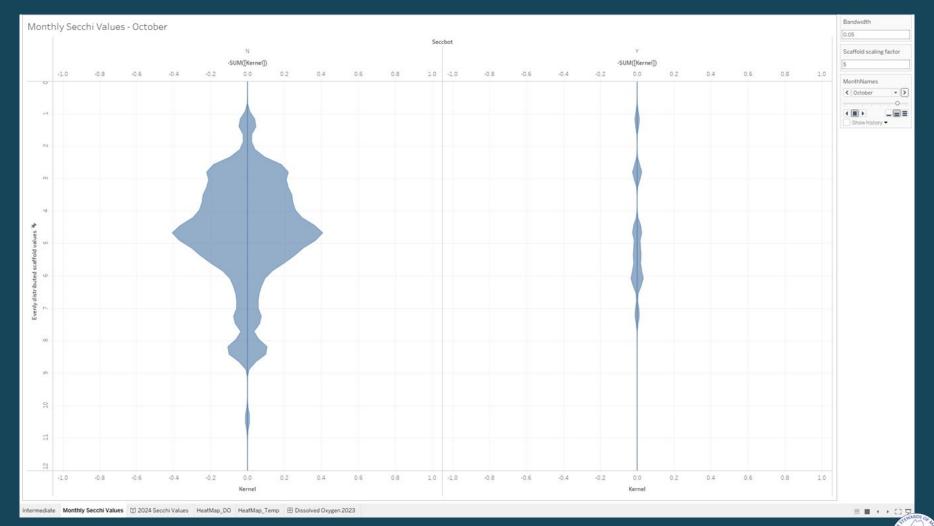


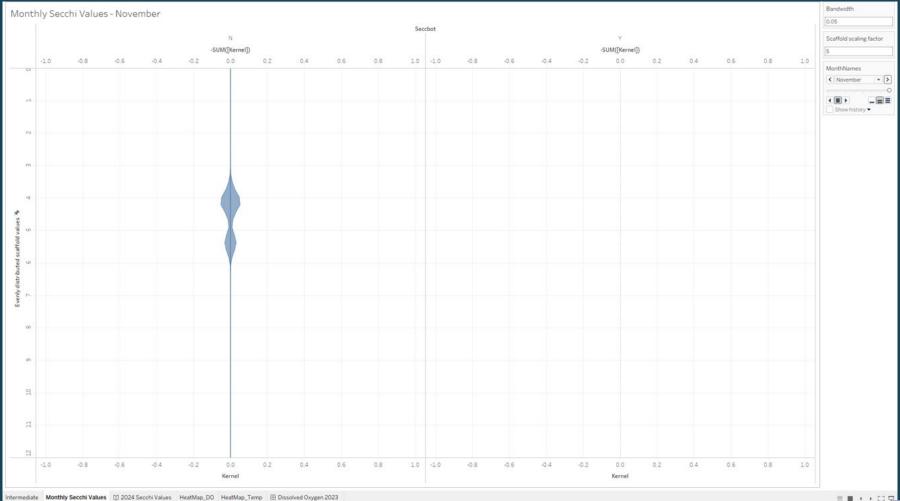




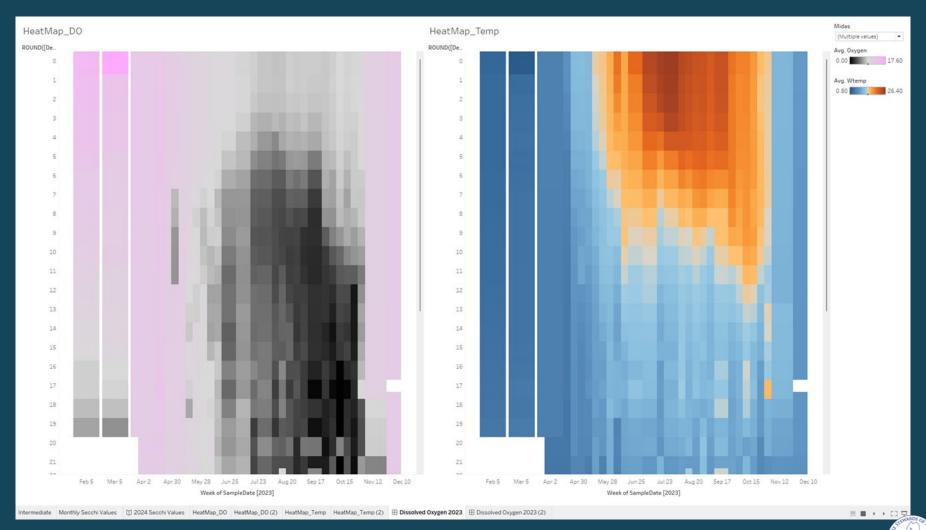


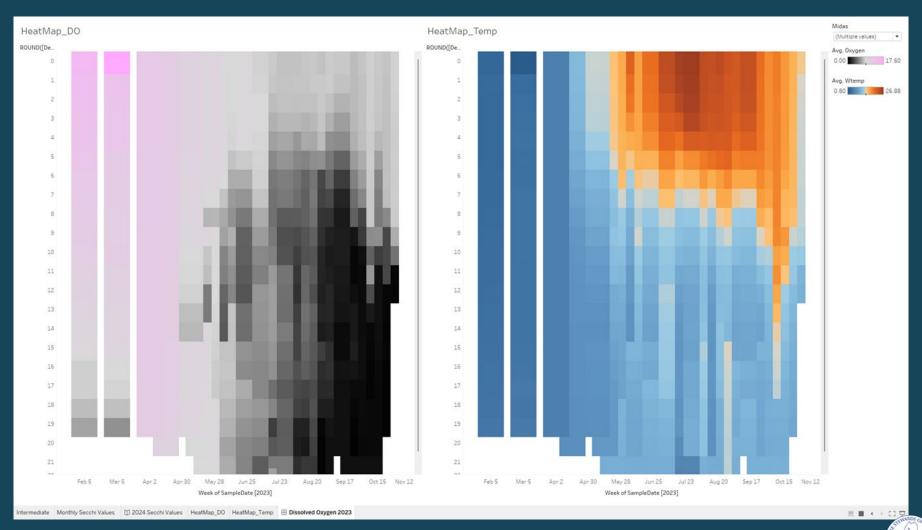










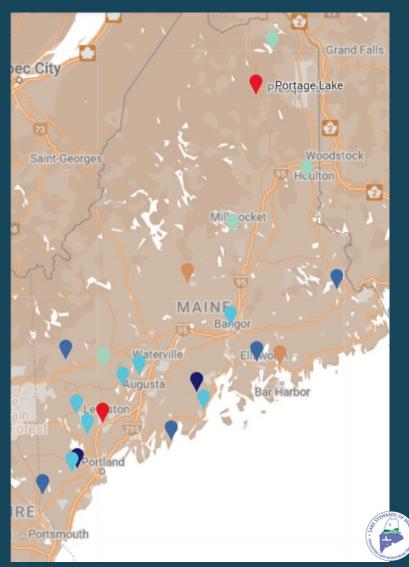


Looking Ahead: WQ Monitoring 2024

35 WQ training sessions planned (map to right)

15 of the 16 counties have trainings offered in them.

MOHF study for Freshwater
Healthy Beaches Program will
wrap up report.
Environmental Justice Lake
Score list developed.
Shout-out to Portland Water District for
some bacterial collection method
comparison.



Looking Ahead: LSM AIS 2024

Additional AIS species designated by legislature. Information (& video) on LSM website.

Utricularia inflata was found in 2022 and 2023.

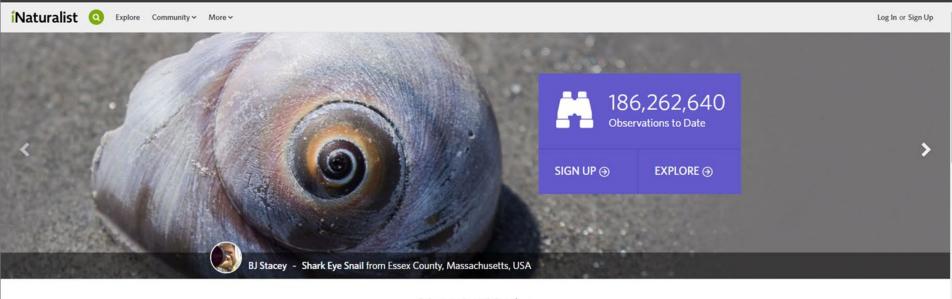
New AIS Survey123 field form, quick keys, and poster.

Continuing work in Northern Maine and on a tiered certification system for AIS volunteers





AIS LSM Field Guide



How It Works



Record your observations

Share with fellow naturalists

Discuss your findings



Lakes Of Maine.org Data Repository

Page vie ws (2023): ~1,100,000

New developments for the site in the next year include: interactive maps, & navigation (wayfinding, UI/ UX) improvements

Notices and advisories

Score Card launch this year



Questions?

