

Cyanobacterial blooms can happen anywhere?



Lake Okeechobee





Three Mile Lake (CAN)

Low productive



Lake Superior

Under ice



Murukesan 2022; Reinl et al. 2021, 2023













Study selection

- Compilation of historic lake data
- Select lakes that span ranges of:
 o Total P
 - Elevation ≈ Temperature
 - Fish stocking
- 29 lakes selected with ranges of:
 - ο P: 1-150 μg/L
 - o Elevation: 960-1,980 m
 - o Fish stocking: 0-130 kg/ha





Lakes, PRISM, NADP, NOAA-NSIDC

















Acknowledgements

Research assistance

- Robin Matthews (WWU)
- Kurt Carpenter (USGS)
- Al Johnson (USFS)
- Joseph Eilers (MaxDepth Aquatics)
- Rich Miller (CLR/ESA)
- Marc Weber (US EPA)
- Strecker lab members

Lab & field assistance

Olamide Alo, Trevor Williams, Amie Romney, Steve Hanson (DEQ), Sam Doak (DEQ), Rebecca Wilson, Victoria Avalos, Eric White-Duong, Morgan McAllister

Funding

- ASLO LOREX
- Oregon Lakes Association
- Society of Freshwater Science
- Edward and Olive Bushby Scholarship Fund
- Sigma Xi
- Northwest Science Association



