Continuous Data Logger Processing App

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Sentinel Lakes Program

• Long-term lake monitoring program started in 2008

• Collaborative effort led by the Minnesota Department of Natural Resources and the Pollution Control Agency and teams with multiple other agencies and researchers
Sentinel Lakes Program

25 lakes

A gradient of conditions

Four ecoregions

Three Phosphorus Concentrations

Two mixing regimes
Sentinel Lakes Data

- Water Chemistry (PCA)
- Phytoplankton (PCA)
- Zooplankton (EWR)
- Macrophytes (EWR)
- Macroinvertebrates (EWR)
- Ice On/Off (CLM)

- Juvenile Fish (SLP)
- Littoral Fish (IBI)
- Pelagic Fish
  - Vertical gillnets (SLP)
  - Hydroacoustics (FRU)
- Standard Fish Surveys (FMA)

- Water Temperature (FMA & SLP)
- DO (SLP)
- Water Levels (EWR & SLP)