

Data Collected

| Definitions of Terms | Term | Sample |
|----------------------------------------------------------|----------------|------------------|
| Data from Buoy Sensors | | |
| Lake Temperature (° C or ° F) | | degrees C |
| Type of Thermistor Chain (manufacturer; model number) | | YSI6920 |
| Depths (Meters or Feet) | | meters |
| Depths Temperature collected at | winched system | degrees C |
| Dissolved Oxygen (units) | | mg/l |
| Type of DO Sensor (manufacturer; model type) | | YSI6920 |
| Depths (Meters or Feet) | | meters |
| Depths DO collected at | winched system | |
| Chlorophyll Fluorescence (units) | | |
| Depths Chlorophyll Fluorescence collected at | winched system | |
| Depths Turbidity collected at | | |
| Conductivity (units) | | YSI6920; uS/cm |
| Depths Conductivity collected at | winched system | |
| Other Buoy Sensors (units) | pH | YSI6920; pH unit |
| Depths Other Buoy sensors collected at | winched system | |

Data Collected

Definitions of Terms

| | Term | Sample |
|-----------------------------------------------------|---------------------------------|-----------------|
| Meteorological Measurements on Buoy (if any) | | |
| Barometric Pressure (units) | | bar |
| Air Temperature (Units) | | degrees C |
| Photosynthetically active Radiation (PAR) Units | surface and underwater (1 m diu | W/s/m2 |
| Relative humidity (Units) | | percent |
| Longwave radiation (Units) | | W/m2 |
| Shortwave radiation (Units) | | W/m2 |
| Solar radiation (Units) | | W/m2 |
| Wind Speed (Units) | | m/s |
| Wind Direction (Units) | | 360 mech. angle |

Land-Based Meteorological Station M Data accessible for the researchers of LBS

| | | |
|---------------------------|--------|-----------|
| Precipitation (units) | Prec | mm/d |
| Air Temperature (Units) | AirT | degrees C |
| Relative humidity (Units) | RelHum | percent |

Other Sensor Data

| | | |
|------------------------------------------------------------------------------|------------------|------------------|
| Other | | |
| Lake Temperature ($^{\circ}$ C or $^{\circ}$ F) | | degrees C |
| Type of Thermistor Chain (manufacturer; model number) | | Vemco Minilog TR |
| Depths (Meters or Feet) | Meters | meters |
| Depths Temperature collected at | Temp (0m to 40m) | degrees C |

Data Collected

Definitions of Terms

Term

Sample

Data produced by water samples

| | | |
|----------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|
| Total Phosphorus (Units) | tot P | ug/l |
| Total Nitrogen (Units) | tot N | ug/l |
| Chlorophyll a concentration (Units) | Chl A | ug/l |
| Chlorophyll a methodology (total, - phaeopytin, - b, -c) | total chl-a (ethanol extraction); also ratio A665:A656 | |
| Bacteria counts and types (Units) | | cells/ml, mg ww/m3 |
| Phytoplankton (Units) | | mg ww/m3 |
| Zooplankton (Units) | | |
| Major ions (Units) | K, Na, Ca, Mg, Mn, Fe, Cl, SO4 | mg/l |
| Other | | |
| ammonium-N | N/NH4 | ug/l |
| nitrite+nitrite-N | N/NO2+NO3N | ug/l |
| phosphate-P | P/PO4 | ug/l |
| Total organic carbon | TOC | mg/l |
| Particulate organic carbon | POC | mg/l |
| Water temperature | Temp | degrees C |
| pH | pH | pH unit |
| conductivity | cond | uS/cm (25 C) |
| alkalinity | alkalinity | mmol/l |
| water colour | colour | mgPt/l, and absorbance at 420nm, 436 nm |
| dissolved oxygen | | mg/l |

Other (non-sensor) Data

| | | |
|------------------------------------------|--------------------------------|-----------------|
| Surface inflow levels and flows (Units) | Discharge | m3/s |
| Surface outflow levels and flows (Units) | Discharge | m3/s |
| Surface inflow nutrients | P/PO4, N/NO2+NO3, N/NH4, tr | ug/l (TOC mg/l) |
| Surface inflow major ions | K, Na, Ca, Mg, Mn, Fe, Cl, SO4 | mg/l |