



## R/V Lake Explorer II Transect Locations

- EAS (Eastlake)
- EMP (Empire)
- GTB (Grand Traverse Bay)
- MNQ (Manistique)
- ROW (Rowley's Bay)
- STU (Sturgeon Bay)



## Chemical Data (Available Spring/Summer 2022)

Dissolved Inorganic Nutrients			Total Nutrients		Cation (metals)				Anions		Chl	TSS/VSS	DOC
NH3	SRP	NOx	P	N	Na	K	Ca	Mg	Cl-	SO4=	Chl A	TSS/VSS	DOC*

### R/V Sturgeon (USGS)\*\*

**Dates:** 7/4/21-7/26/21

**Depths:** Surface

**Sites:** (63) 5, 8, 12, 17, 23,  
30, 38 km STJ, MIC,  
WAU, RAC, GH, PW,  
SHB,MAN, LUD

\*processed by Univ Miami

\*\*NH3, SRP, NOx only

### R/V LEII (GLTED)

**Dates:** 7/12/21-7/23/21

**Depths:** 5m, DCL

**Sites:** (18) 5,17,38 km  
EAS, EMP, GTB,  
MNQ, ROW, STU

### R/V LG (GLNPO)

**Dates:** 7/13/21-7/22/21

**Depths:** 5m, DCL

**Sites:** (27) 8, 17, 30 km  
STJ, MIC, WAU,  
RAC, PWA, STO,  
SHB, MAN, LVD

**Contact: Anne Cotter** [Cotter.Anne@epa.gov](mailto:Cotter.Anne@epa.gov)



# Physical Data (Available January 2022)

## Seabird CTD

Temperature [deg C]  
Fluorescence [mg/m<sup>3</sup>]  
Oxygen [mg/l]  
Conductivity [uS/cm]  
Specific Conductance [uS/cm]  
Beam Attenuation [1/m]  
Beam Transmission [%]  
SPAR  
PAR/Irradiance  
PAR/Corrected Irradiance [%]  
Density [kg/m<sup>3</sup>]  
Pressure, Digiquartz [db]  
pH

## BBE Fluoroprobe

Green Algae [µg/l]  
Bluegreen [µg/l]  
Diatoms [µg/l]  
Cryptophyta [µg/l]  
Yellow substances [r.u]  
Total conc. [µg/l]  
Transmission [%]

## BIC UV profiles

1% UV depth  
K<sub>uv</sub> (data reprocessed by  
Univ Miami)

## Sequoia LISST-200X

Mean Size [µm]  
Total Volume Conc. [PPM]  
Total Silt  
Total Fine  
Total Med Sand  
Total Coarse Sand

**Ship:** R/V LEII (EPA GLTED)

**Dates:** 7/12/21-7/23/21

**Depths:** full profiles binned at 1m

**Sites:** (42) EAS, EMP, GTB, MNQ,  
ROW, STU

at 5, 8, 12, 17, 23, 30, 38 km

**Contact: James Gerads** [Gerads.James@epa.gov](mailto:Gerads.James@epa.gov)



## Biological Data

### Larval Fish\*

- Tucker
- Neuston

**Ship:** R/V LEII (EPA GLTED)

**Dates:** 7/12/21-7/23/21

**Sites:** (42) EAS, EMP, GTB, MNQ,  
ROW, STU at 5, 8, 12, 17,  
23, 30, 38 km

### Zooplankton

- Taxonomy
- Isotopes

**Ship:** R/V LEII (EPA GLTED)

**Dates:** 7/12/21-7/23/21

**Sites:** (42) EAS, EMP, GTB, MNQ, ROW,  
STU at 5, 8, 12, 17, 23, 30, 38 km

**Ship:** R/V Sturgeon (USGS)\*\*

**Dates:** 7/4/21-7/26/21

**Sites:** (63) 5, 8, 12, 17, 23, 30, 38 km STJ,  
MIC, WAU, RAC, GH, PW, SHB, MAN,  
LUD

\*Samples sent to USGS

\*\*Samples sent to GLTED