

Use Case Scenarios

Scenario 1: State-level management staff wants to look at phosphorus trends in Lake Erie and wants the following information:

- Total phosphorus and chlor-a trends in the western basin of Lake Erie (i.e. a time series, plus the box and whiskers plot to show overall variability)
- Total phosphorus and chlor-a trends from an individual station (Erie 59 due to its proximity to the Maumee River)
- Total phosphorus and chlor-a trends in the central basin of Lake Erie
- Loading information (USGS gauge data) from the Maumee River

Scenario 2: Scientist interested in changes in DCM through time in Lakes Michigan and Huron and wants the following information:

- Average chlor-a values at depth for early in the time series (say, pre – 2002) versus more recent values
- Wants to make a comparison for Lake Huron versus Lake Michigan
- How is depth of DCM related to water temperature (display both profiles on the same graph, or multiple graphs?)