User Guide

Overview: The application provides mapping data with time series data visualization for Oregon HABS (acronym stands for?). This guide describes the application features and steps for using the application.

Application features and usage:

1. Click on the button of three lines *[with three lines within it]* to extend or collapse the side bar that contains three *[prompts]*: “About”, “User Guide” and “Contact”.
2. Select a date from the calendar*.* Default date selected is the latest day of the available data. On the calendar, only the dates with data are available for selection. On the top of the calendar, click on the title to move up from month to year, and click the left of right arrows to *move* to previous or later periods. Select a date to display a map corresponding to the date in the map area.
3. Select a waterbody from the “Waterbody” drop*[-]*down list. The waterbodies are *[organized]* into two groups: within *[a]* drinking water source area and not within *[a]* drinking water source area. *Each* waterbody is named as *[follows:]*waterbody name\_GNSID. Select a waterbody to display a map within the extent of the selected waterbody.
4. “Boxplot” shows the cyanobacteria abundance of  *the* selected waterbody *for the* selected date. An orange line indicates the World Health Organization (WHO) guideline (100,000 cells/mL) for cyanobacteria in recreational freshwater. When the default waterbody in the field of “Select a Waterbody” is Oregon *[?]* or when a selected waterbody has no data on a selected day, no boxplot shows. Otherwise, hover the mouse icon over the boxplot to display the values of minimum, median, maximum, 1st quartile (25th percentile) and 3rd quartile (75th percentile) of cyanobacterial abundance (cells/mL) of the selected waterbody on the selected date.
5. “Map”provides a visualization of the CyAN Satellite data on the selected date. Pixel size Default map shows Oregon view in the center of the map. The map refreshes in correspondence with the selected date and waterbody. Three control buttons at the upper-left corner of the map allows the user to zoom in, or zoom out with respect to any selection of date and waterbody or reset to Oregon map view. An insert map and a legend are also displayed. Double-click on the map to zoom in to a desired area.
6. “Date Range” allows users to choose a range of dates to display time series plot of cyanobacteria abundance of selected waterbody. Default starting date is the first date of the entire dataset and the default ending date is the last date with available data of the entire dataset.
7. “Summary Statistics”, including daily maximum, daily mean and daily minimum, are available for users to select to display on the time series plot of cyanobacteria abundance of the selected waterbody. Default selection is daily mean of cyanobacteria abundance.
8. Select y-axis Log Scale to display the data in log-scale on the time series plot of cyanobacteria abundance for the selected waterbody. Default y-axis is not log-scaled.
9. The time series plot displays daily mean, daily maximum and/or daily minimum values of cyanobacteria abundance (cell/mL) for the selected waterbody during the selected date range.
10. “Table” shows the data corresponding to the time series plot, based on selections of date range and summary statistics. Click the up/down arrows next to the table column name to sort the information as desired. Click the Download button to download the table in CSV, Excel or PDF format.