Overview of SeaDAS 8.4.1 for the Processing, Analysis, and Visualization of Optical Remote Sensing Data for Water Quality Monitoring

February 13, 2024

10:00-12:15 (Session A) or 14:00-16:15 (Session B) EST (UTC-5)

SeaDAS software, developed by the NASA Ocean Biology Processing Group (OBPG), is used in the processing, analysis, and visualization of satellite images. SeaDAS uses OBPG algorithms to produce water quality data and can be used to obtain water quality parameters from current optical sensors such as OLI, MSI, OLCI, VIIRS, and MODIS. SeaDAS can also be used to apply atmospheric correction and obtain remote sensing reflectance at the water surface level from these sensors.

This two-hour training will provide an overview and demonstration of the latest version of SeaDAS 8.4.1, which is useful for remote sensing of water quality monitoring. This training will also serve as a prerequisite for future ARSET training on remote sensing of water quality.

Agenda

ARSET Instructor(s): Amita Mehta

Guest Instructor(s): Daniel Knowels Jr. (Programmer - SAIC/NASA Ocean Ecology Laboratory)

- Overview and Demonstration of SeaDAS Visualization Features
- Overview and Demonstration of SeaDAS Science Processors
- Tools for PACE
- Hands-on Exercise: Science Processing and Visualization

ARSET empowers the global community through remote sensing training.