

OCEAN OPTICS XXIV

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<https://oceanopticsconference.org>

Wednesday, October 10

Poster Session 3

16:00–18:00

Poster 195

SEABASS TIMESERIES VALIDATION TOOL

A new web-based Timeseries Validation Tool was designed for the SeaWiFS Bio-optical Archive and Storage System (SeaBASS) to provide comparisons over time between in situ measurements and satellite-borne ocean color instrument observations. Suitable timeseries sites were identified based on regions where multi-year records of in situ measurements related to one or more ocean color validation products could be obtained. These data included a combination of SeaBASS data submissions and external data sources (such as AERONET-OC). For each site, a polygon-shaped sampling-area was defined to capture nominally-homogenous waters. Within each site's boundaries, satellite measurements were averaged, and all available SeaBASS in situ data that had been previously prepared for validation were included. Users are presented with a number of configuration choices, including the option to evaluate weekly-, monthly-, or seasonally-averaged data. A list of standard ocean color satellite products is available, including remote sensing reflectance, chlorophyll a concentration, and GIOP products. This tool complements the existing SeaBASS Level-2 ocean color satellite Validation Search by allowing the evaluation of temporal trends of data streams (i.e., in situ, plus one or more satellite sensors), differing from the existing Validation Search which focuses on narrowly defined coincident measurements.

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