APPROACHES TO OCEAN COLOR STUDIES USING SEADAS

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Various approaches to image visualization and the analysis of ocean color satellite data were developed which utilize the SeaDAS software. SeaDAS is a comprehensive image analysis software package developed and maintained by NASA (in collaboration with the developers of ESA's BEAM software) for the processing, display, analysis, and quality control of ocean color data. Each methodology, though specific in nature, presents concepts which are readily customizable by the user for their own specific applications. This poster illustrates and overviews results which were achieved using these approaches which include the following: cloud edge masking; population density masking; ocean floor and deep water masking; regional polygon masking; integration of field measurements with satellite derived data; cross satellite comparisons; hybrid true color images which optimize land and water features separately. Many of these approaches are also applicable to the current BEAM (and in the future the Sentinel Toolbox which will serve as the core to the SeaDAS) software.

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