

Special Products

The OBPG produces a suite of [Level-3 special products](#) to support the algorithm development and validation activities of engaged community members. Brief descriptions of these products are provided below.

IOPs from the Garver-Siegel-Maritorena Algorithm (GSM)

Spectral marine absorption and backscattering coefficients of water column constituents

Maritorena, S., Siegel, D. A., & Peterson, A. R. (2002). Optimization of a semianalytical ocean color model for global-scale applications. *Appl. Opt.*, 41(15), 2705. <http://dx.doi.org/10.1364/ao.41.002705>

IOPs from the Quasi-Analytical Algorithm (QAA)

Spectral marine absorption and backscattering coefficients of water column constituents

Lee, Z., Carder, K. L., & Arnone, R. A. (2002). Deriving Inherent Optical Properties from Water Color: a Multiband Quasi-Analytical Algorithm for Optically Deep Waters. *Appl. Opt.*, 41(27), 5755. <http://dx.doi.org/10.1364/ao.41.005755>

Diffuse attenuation coefficients and euphotic depth from Lee Algorithm (ZLEE)

Spectral diffuse attenuation coefficients for downwelling irradiance and depth of the euphotic zone

Lee, Z.-P. (2005). A model for the diffuse attenuation coefficient of downwelling irradiance. *Journal of Geophysical Research*, 110(C2). <http://dx.doi.org/10.1029/2004jc002275>

Lee, Z., Weidemann, A., Kindle, J., Arnone, R., Carder, K. L., & Davis, C. (2007). Euphotic zone depth: Its derivation and implication to ocean-color remote sensing. *Journal of Geophysical Research*, 112(C3). <http://dx.doi.org/10.1029/2006jc003802>

NDVI Land Reflectance

Tucker, C. J. (1979), Red and photographic infrared linear combinations for monitoring vegetation, *Remote Sens. Environ.*, 8:127-150.