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Particulate absorption properties in the Red Sea from hyperspectral particulate absorption spectra

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Abstract

This paper aims to describe the variability of particulate absorption properties using a unique hyperspectral dataset collected in the Red Sea as part of the TARA Oceans expedition. The absorption contributions by phytoplankton (a_{ph}) and non-algal particles (a_{NAP}) to the total particulate absorption coefficients are determined using a numerical decomposition method (NDM). The NDM is validated by comparing the NDM derived values of a_{ph} and a_{NAP} with simulated values of a_{ph} and a_{NAP} are found

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