

The Inherent Optical Properties Of Waters In South Of Vietnam Coastal

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Abstract: The inherent optical properties (IOPs) describe the absorption and scattering characteristics of ocean water and its constituents. IOPs are used to determine the spectral of water-leaving radiance and conventionally the water-leaving radiance is used to determine oceanic constituents. Therefore understanding the IOPs of a specific region is necessary to improve accuracy of remote sensing algorithms in determining oceanic constituents. In this paper, the in situ data were collected from four surveyed. The first surveyed was carried in the period of 8th to 9th June 2007 in Nha Trang bay with 8 stations. The second survey was carried in the period of 7th to 8th July 2007 in Binh Thuan coast with 12 stations. The third surveyed was carried in 11st October 2012 with 8 stations in Mekong delta coastal area. And the fourth surveyed was carried in 27th December 2012 with 6 stations in Mekong delta coastal area on difference location to the third surveyed. At each station, The Profiling Reflectance Radiometer (PRR2600) and water sample were deployed to collect data. PRR2600 measured vertical profile of irradiance and radiance at 7 wavelengths (380, 412, 443, 490, 555, 625, and 665 nm) throughout the water column from surface to approximately 5 m above the sea floor. Water samples were taken at several depths (surface + 1m + 3m + 5m) by using Niskin bottles. The IOPs was computed from remote sensing reflection (Rrs) by using Quasi-Analytical Algorithm (QAA) developed Lee etc. 2002. This study's purpose is to investigate main component which strongly influenced in water mass in the study areas.

Keyword : IOPs, South of Vietnam coastal, Backscattering, Absorption.