

Mapping CDOM Distribution in Berau Delta, East Kalimantan from Remote Sensing

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Abstract: Colored Dissolved Organic Matter (CDOM) is a product of plant and animal decomposition processes. Information of CDOM distribution is needed to determine water quality condition. The paper describes CDOM distribution in the Berau Delta coastal waters derived from *in situ* measurements and Medium Resolution Imaging Spectrometer (MERIS). Field measurements of CDOM absorption was carried out in January 2009. Four MERIS data: August 21, 28 and 31, 2007, September 15, 2007; and August 31, 2007 were used in this study. Case-2 regional module in BEAM VISAT software was used to process the MERIS data. The result indicated that the CDOM absorption in the Berau Delta coastal waters ranged from 1.67 m⁻¹ in the river to 0.091 m⁻¹ in clear open seawater.

Key words: CDOM, absorption, MERIS, Berau Delta,