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### Ocean Color Research for Global Imager (GLI) on Advanced Earth Observation Satellite-II (ADEOS-II)

[Joji ISHIZAKA](#)<sup>1)</sup>

1) Faculty of Fisheries, Nagasaki University

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#### Abstract

Advanced Earth Observation Satellite-II (ADEOS-II) was launched in 2002, and it operated from April to October 2003. One of the core instruments is Global Imager (GLI) which measured ocean color. Ocean color is an important parameter because phytoplankton biomass (chlorophyll-a) is one of the key parameters for estimating ocean primary production and associated carbon flux. A Cooperation study between JAXA and Nagasaki University was started in 2002. The study covered 1) collection of in situ data for calibration and validation of the products of GLI and MODIS, 2) development of primary production

usefulness of ocean color data for red tide monitoring, 4) showing u  
data for coastal environmental monitoring, and 5) establishing intern  
This study supported the product accuracy of GLI and MODIS, ar  
necessity of 250m ocean color data of Second-generation GLI (SG  
Observation Mission-Climate (GCOM-C). Furthermore, applicatic  
was explored.

Keywords: [ocean color](#), [chlorophyll](#), [primary production](#), [coastal e](#)

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