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Research Subject	Earth observation and environmental monitoring		
Keywords	Global monitoring, Ocean energy, Ariake environmental monitoring		
Outline			
<p>There are so many global issues. One of those is global warming. In order to mitigate global warming, mechanisms and influential factors have to be clarified. The first step for that must be monitoring the factors. For instance carbon di-oxide, methane, nitric acid, CFC and the others have to be monitored for mitigation of global warming. Only one method for monitoring the factors instantaneously, widely and repeatedly is Earth observation from space. In particular, Terra/Aqua/NOAA satellites are designated to monitor the factors.</p> <p>In order to contribute to science users, my laboratory provides the satellite data VIA internet from the web server, http://coesat.ip.is.saga-u.ac.jp/ within two hours after the reception of the satellite data for quasi real time users. The site also provides higher order products such as ocean winds, water vapor content in the atmosphere, sea surface temperature and the others for the users in the research fields of fishery, meteorology, agricultural and forest inventory.</p> <p>Our Earth maintains a balance among the biosphere, the atmosphere, the hydrosphere, the cryosphere and the solid Earth.</p> <p>Specific feature</p> <p>More than 20 of products, chlorophyll-a, suspended solid, photosynthesis available radiation, carbon flux, K490 radiation, CDOM, heat flux and so on are provided from the site. This is one of the specific features of this site. Methodology for estimation of these factors is my major concern followed by the clarification of the mechanism.</p>			

