

AERONET-Ocean Color time series in Ariake Bay.

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The AERONET (**AE**rosol **RO**botic **NET**work) project is a federation of ground-based remote sensing aerosol networks established by **NASA** and **PHOTONS** and is greatly expanded by networks from national agencies, institutes, universities, individual scientists. AERONET –Ocean Color (AERONET-OC) provides the additional capability of measuring the radiance emerging from the sea. In April 2018, a new station of AERONET-OC has been set by JAXA for GCOM-C validation in Ariake Bay located in Kyusyu, Japan where the seaweed (Nori) culture very famous. Aerosol Optical Depth (AOD) and remote sensing reflectance (Rrs) is considered as the most important products of AERONET-OC since the estimation of chlorophyll-a concentration by ocean color satellite is usually not so accurate in coastal areas because of the inaccurate satellite remote sensing reflectance (Rrs) influenced by aerosol. This study is to make a brief description of the time series of the AERONET-OC data from April 2018 to April 2019. Local Chl-a and TSM estimated by using radiances measured by the AERONET-OC is going to use to explain the phytoplankton bloom connect with factors such as precipitation and river discharge in Ariake Bay.

Keywords: chlorophyll-a, remote sensing reflectance, AERONET-OC