

## A Marine-field Optical Particle Counter for Sea-Spray Measurements: Understanding the Relationship Between Surface Wave Breaking and Aerosol Generation

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For understanding the phase relationship between the breaking of wind waves and the generation of marine-aerosol at the sea surface, we use an experimental opticle particle counter for sea spray (OPC-SS) which is able to measure particle concentrations at a rate of 10 Hz in 8 size bins between 0.3 and 30 micro-meters . The OPC-SS is also equipped with triaxial accelerometer at a rate of 10 Hz for measuring the movement of a buoy. In 2017, we have tested at the OPC-SS at the Shiramaha Oceanographic Observatory Tower (Kyoto Univ.) and also in the Otsuchi Bay in front of the International Coastal Research Center (the Univ. of Tokyo).

<http://co2.hyarc.nagoya-u.ac.jp/labhp/member/aiki/>

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