

Product name: Gap-free daily SSS

Extended name: Gap-free daily sea surface salinity product in the East China Sea during summer in 2015-2019

Short Description:

The Gap-free daily SSS products contain gap-free daily sea surface salinity (SSS) and geographical data for the East China Sea and the Yellow Sea (28.5-35.0°N, 119.5-129°E) with a 1/100° horizontal resolution during summer in 2015-2019. For the Gap-free SS, various environmental data (SMAP SSS, CMEMS SSS, HYCOM SSS, sea surface temperature, sea surface height, ocean current, wind data) and GOCI-derived daily SSS were trained and tested using machine learning methods, and in situ SSS data was used for model validation. The variables comprised longitude, latitude, and gap-free daily SSS maps produced from Models 1 and 2 from June 1 to September 30 during 2015-2019.

[Compared to the previous versions, the products produced from Models 1 and 2 were provided as individual files.]

Authors: Jisun Shin; Dae-Won Kim; So-Hyun Kim; Kisup Lee; Boo-Keun Khim; Young-Heon Jo

Domain: 29-35.0°N, 119.5-129°E

Horizontal Resolution: 1/100°

Depth Levels: Surface

Temporal Interval: daily, 2015-2019(June to September)

Variable: gapfree_SSS(psu), longitude(°), latitude(°)

Updated : 2024. 5. 7.

Version : Version 2.0

Fund:

This work was supported by the National Research Foundation of Korea (NRF) grant funded by the Korea government (MSIT) (RS-2023-00280650; RS-2023-00274972).