

Global

Global SMOS SSS maps

Global SSS maps are computed at BEC using a new methodological approach to cope with land and RFI contamination.

Products

Two different products are generated

L3

Daily map of 9-day in a rectangular grid at 0.25° resolution, from 2011 to 2019. Some of the improvements of the v2 product with respect to the previous versions are:

1. Latitudinal and seasonal bias has been reduced;
2. New filtering criteria have been applied to be more consistent with the geophysical signal;
3. An estimate of the salinity uncertainty is provided in the L3 product.

L4

Daily fused with OSTIA SST maps in a rectangular grid at 0.05° resolution, from 2011 to 2019

These maps have been validated with near-surface measurements provided by Argo profilers, which allow us to define several quality metrics.

Related documents

- **Article:** [Olmedo et al. 2021] Olmedo, E., González-Haro, C., Hoareau, N., Umbert, M., González-Gambau, V., Martínez, J., Gabarró, C., and Turiel, A.: *Nine years of*

SMOS sea surface salinity global maps at the Barcelona Expert Center, Earth Syst. Sci. Data, 13, 857–888, <https://doi.org/10.5194/essd-13-857-2021>, 2021.

- **Data Description and Quality report:** [BEC-SMOS-PD-SSSv2-v1.pdf](#)