A Big Earth Data Platform for Three Poles

**SSTG dataset: A Global Gridded Sea Surface Temperature Data (2002–2019)**

1、Description

The SSTG dataset is a global sea surface temperature data during the period of 2002-2019, in Celsius, in monthly temporal and 0.041° spatial resolution.
It is produced by combing daily in situ SST data and daily satellite SST retrieval data from two infrared (MODIS and AVHRR) and three passive microwave (AMSR-E, AMSR2, Windsat) radiometers after calibration by using a temperature depth and observation time correction model. The accuracy assessments indicate that the reconstructed dataset exhibits significant improvements and can be used for mesoscale ocean phenomenon analyses.

2、Keywords

Theme：Sea surface temperature,Surface Water,Galactic System
Discipline：Terrestrial Surface,Solar-Terrestrial Physics and Astronomy
Places：Global
Time：2002 to 2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：9774.65MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：-180.0 | - | east：180.0 |
| - | south：-90.0 | - |

5、Time frame:2002-07-30 16:00:00+00:00--2019-12-30 16:00:00+00:00

6、Reference method

References to data:

MAO Kebiao. SSTG dataset: A Global Gridded Sea Surface Temperature Data (2002–2019). A Big Earth Data Platform for Three Poles, doi:10.5281/zenodo.44198042021

References to articles:

Cao, M., Mao, K., Yan, Y., Shi, J., Wang, H., Xu, T., Fang, S., & Yuan, Z. (2021). A new global gridded sea surface temperature data product based on multisource data. Earth System Science Data, 13(5), 2111–2134. https://doi.org/10.5194/essd-13-2111-2021

7、Supporting project information

8、Data resource provider

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