Upper Yangtze River Scientific Data Center

**SIFoco2\_005 Dataset in the upper reaches of the Yangtze River, China(2014-2020)**

1、Description

This dataset provides continuous global average daily sun induced chlorophyll fluorescence (SIF) data in the upper reaches of the Yangtze River in China from September 2014 to July 2020 with a spatial resolution of 0.05 degrees (about 5 kilometers from the equator) and a 16 day temporal resolution. This product comes from the SIF observation of OCO-2, which is generated by training the artificial neural network (ANN) for the original SIF observation of OCO-2 and the seven band surface reflectivity corrected by MODIS BRDF along the OCO-2 track. Then, according to MODIS reflectance and land coverage, the trained ANN model is applied to predict the average daily SIF (mW/m2/nm/sr) of the blank area of OCO-2. The framework was stratified according to biological communities and 16 day time steps.

2、Keywords

Theme：
Discipline：Remote Sensing Technology
Places：1
Time：2014-09-01 to 2020-07-31

3、Data details

1.Scale：None

2.Projection：

3.Filesize：4550.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：36.5 | - |
| west：89.0 | - | east：112.0 |
| - | south：24.0 | - |

5、Time frame:2014-08-31 16:00:00+00:00--2020-07-30 16:00:00+00:00

6、Reference method

References to data:

WEN Jiaming , CHANG Yao-Yun Christine , SUN Ying , FRANKENBERG Christian , YU Longlong . SIFoco2\_005 Dataset in the upper reaches of the Yangtze River, China(2014-2020). Upper Yangtze River Scientific Data Center, 2022

References to articles:

7、Supporting project information

8、Data resource provider

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