Upper Yangtze River Scientific Data Center

**SIFoco2\_005 Dataset in Southwest China (2014-2020)**

1、Description

This data set provides continuous global average daily sun induced chlorophyll fluorescence (SIF) data in southwest 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：Southwest of China  
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：34.5 | - |
| west：97.0 | - | east：112.5 |
| - | south：20.5 | - |

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 Southwest China (2014-2020). Upper Yangtze River Scientific Data Center, doi:https://doi.org/10.3334/ORNLDAAC/18632022

References to articles:

7、Supporting project information

8、Data resource provider

name: FRANKENBERG Christian   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov  
  
name: YU Longlong   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov  
  
name: WEN Jiaming   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov  
  
name: CHANG Yao-Yun Christine   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov  
  
name: SUN Ying   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov