Upper Yangtze River Scientific Data Center

**MetOp-A GOME-2 L2 Fluorescence Data Set in Southwest China (2007-2018)**

1、Description

This data set provides the second order (L2) solar induced fluorescence (SIF) data of chlorophyll estimates from the Global Ozone Monitoring Experiment 2 (GOME-2) instrument on the European Meteorological Satellite (EUMETSAT) MetOp-A, with spectral resolution of about 0.5 nm and wavelength between 734 and 758 nm. GOME-2 covers the global land between about 70 and - 57 degrees latitude on an orbital basis with a resolution of about 40 km x 80 km or a record 40 km x 40 km. The data is from February 1, 2007 to January 31, 2018. Each file contains daily raw and deviation adjusted solar induced fluorescence, quality control information and auxiliary data. SIF measurement can provide information about the functional state of vegetation, including light use efficiency and global primary productivity, and can be used for global carbon cycle modeling and agricultural applications. GOME-2 SIF products have inherent noise due to low signal level, and have only undergone limited verification. The dataset contains 3773 data files in netCDF (\*. nc) format. Data variables are formatted as tracks that conform to CF metadata conventions. The data set provides daily average SIF data of Southwest China.

2、Keywords

Theme：  
Discipline：Remote Sensing Technology  
Places：Southwest of China  
Time：2007-02-01 to 2018-01-31

3、Data details

1.Scale：None

2.Projection：

3.Filesize：50400.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.5 | - |
| west：97.0 | - | east：112.5 |
| - | south：20.5 | - |

5、Time frame:2007-01-31 16:00:00+00:00--2018-01-30 16:00:00+00:00

6、Reference method

References to data:

PARAZOO C Nicholas , FRANKENBERG Christian , KOEHLER Philipp , JOINER Joanna , YOSHIDA Yasuko . MetOp-A GOME-2 L2 Fluorescence Data Set in Southwest China (2007-2018). Upper Yangtze River Scientific Data Center, 2022

References to articles:

7、Supporting project information

8、Data resource provider

name: JOINER Joanna   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov  
  
name: YOSHIDA Yasuko   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov  
  
name: KOEHLER Philipp   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov  
  
name: FRANKENBERG Christian   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov  
  
name: PARAZOO C Nicholas   
unit: Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC)  
email: uso@daac.ornl.gov