Upper Yangtze River Scientific Data Center

**OCO2 in the upper reaches of the Yangtze River, China\_ L2\_ Lite\_ SIF fluorescence data set (2014-2022)**

1、Description

Version 10r is the current version of the data set.The OCO-2 SIF Lite files contain bias-corrected solar induced chlorophyll fluorescence along with other select fields aggregated as daily files.The Orbiting Carbon Observatory is the first NASA mission designed to collect space-based measurements of atmospheric carbon dioxide with the precision, resolution, and coverage needed to characterize the processes controlling its buildup in the atmosphere. The OCO-2 project uses the LEOStar-2 spacecraft that carries a single instrument. It incorporates three high-resolution spectrometers that make coincident measurements of reflected sunlight in the near-infrared CO2 near 1.61 and 2.06 micrometers and in molecular oxygen (O2) A-Band at 0.76 micrometers.  
This collection encompass the output from the IMAP-DOAS preprocessor, which is used for both screening of the official XCO2 product as well as for the retrieval of Solar-Induced Fluorescence from the 0.76 micrometer O2 A-band. The IMAP-DOAS preprocessor, just as the ABO2 cloud screen, is implemented in the operational OCO-2 processing pipeline.

2、Keywords

Theme：SIF,Terrestrial Surface Remote Sensing  
Discipline：Terrestrial Surface  
Places：1  
Time：2014-2022

3、Data details

1.Scale：None

2.Projection：

3.Filesize：72.9MB

4.Data format：None

4、Space scope

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

5、Time frame:None--None

6、Reference method

References to data:

NASA NASA . OCO2 in the upper reaches of the Yangtze River, China\_ L2\_ Lite\_ SIF fluorescence data set (2014-2022). Upper Yangtze River Scientific Data Center, doi:10.5067/XO2LBBNPO0102022

References to articles:

7、Supporting project information

8、Data resource provider

name: NASA NASA   
unit: NASA  
email: gsfc-dl-help-disc@mail.nasa.gov