Upper Yangtze River Scientific Data Center

**OCO2 in Southwest China\_ L2\_ Lite\_ SIF fluorescence data set (2014-2022)**

1、Description

Version 10r is the current version of the dataset. The OCO-2 SIF Lite file contains deviation corrected sun induced chlorophyll fluorescence and other selection fields aggregated into a daily file. Orbital carbon observatory is the first mission of NASA, which aims to collect space-based atmospheric carbon dioxide measurements. Its accuracy, resolution and coverage are used to characterize the accuracy, resolution and coverage required to control its accumulation in the atmosphere. The OCO-2 project uses LEOStar-2 spacecraft with a single instrument. It consists of three high-resolution spectrometers, which can simultaneously measure the reflected sunlight in the near-infrared CO2 and molecular oxygen (O2) A-band of 0.76 μ m near 1.61 and 2.06 μ m. This collection includes the output of IMAP-DOAS preprocessor, which is used to screen official XCO2 products and retrieve solar induced fluorescence from 0.76 μ m O2 A-band. The IMAP-DOAS preprocessor, like the ABO2 cloud screen, is implemented in the OCO-2 processing pipeline.

2、Keywords

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

3、Data details

1.Scale：None

2.Projection：

3.Filesize：50.9MB

4.Data format：None

4、Space scope

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

5、Time frame:None--None

6、Reference method

References to data:

NASA NASA . OCO2 in Southwest 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  
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