Upper Yangtze River Scientific Data Center

**SCIAMACHY L2 Fluorescence Data Set of Southwest China (2003-2012)**

1、Description

This data set provides the chlorophyll estimation of the second order (L2) solar induced fluorescence (SIF) in southwest China. The estimation is from the Scanning Imaging Absorption spectroMeter for Atmospheric CartogramHY (SCIAMACHY) instrument on the Envisat of the European Space Agency (ESA). The spectral resolution is about 0.5 nm, and the wavelength is between 734-758 nm. Data from January 1, 2003 to April 8, 2012 are provided. Each file contains daily raw and deviation adjusted sun induced fluorescence, as well as quality control information and auxiliary data. This data set is the inverted SIF at 740 nm.

2、Keywords

Theme：  
Discipline：Remote Sensing Technology  
Places：Southwest of China  
Time：2003-01-01 to 2012-04-08

3、Data details

1.Scale：None

2.Projection：

3.Filesize：3160.0MB

4.Data format：None

4、Space scope

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

5、Time frame:2002-12-31 16:00:00+00:00--2012-04-08 03:59:59+00:00

6、Reference method

References to data:

PARAZOO C Nicholas , FRANKENBERG Christian , KOEHLER Philipp , JOINER Joanna , YOSHIDA Yasuko . SCIAMACHY L2 Fluorescence Data Set of Southwest China (2003-2012). 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