

Using TROPOMI data: A list of resources

Websites: www.tropomi.eu <https://sentinel.esa.int/web/sentinel/missions/sentinel-5p>

Both sites can be used to get the latest status of all TROPOMI data products and related documentation.

Calibration, Instrument, and Level 1 Data: <http://mps.tropomi.eu/dashboard>

Here you can track the latest position of TROPOMI and get all information related to L1 data availability, engineering data, radiances, irradiances, trend monitoring and quality reports.

Level 2 Data Products: <http://www.tropomi.eu/data-products/level-2-products>

List of S5P/TROPOMI Level 2 Data Products

| Product | Main Parameter | Data file descriptor | Developers |
|--|--------------------------------------|----------------------|------------|
| UV Aerosol Index | aerosol index | AER_AI | KNMI |
| Aerosol Layer Height | mid-level pressure | AER_LH | KNMI |
| Carbon monoxide (CO) | total column | CO_ | SRON |
| Cloud | fraction, albedo, top pressure | CLOUD_ | DLR |
| Formaldehyde (HCHO) | total column | HCHO_ | BIRA-IASB |
| Methane (CH₄) | total column | CH4_ | SRON |
| Nitrogen oxide (NO₂) | total column | NO2_ | KNMI |
| Ozone profiles | total and tropospheric profiles | O3_PR_ O3_TPR | KNMI |
| Sulphur dioxide (SO₂) | total column | SO2_ | BIRA-IASB |
| Ozone (O₃) | total column | O3_ | DLR |
| Tropospheric Ozone (O₃) | tropospheric column | O3_TCL | DLR |
| UV ¹ | surface irradiance erythemal dose | ----- | FMI |

Automatically generated quality control information for L2 including quicklooks:

<http://mpc-l2.tropomi.eu/#overview>

Validation of TROPOMI Level 2 Data Products: <http://mpc-vdaf.tropomi.eu/>

This site can be used to generate validation reports for TROPOMI data products that have been publically released based on ground-based network data, etc.

Would you like to become a part of the TROPOMI Validation Team (S5PVT)?

The application process is always open for researchers wanting to validate TROPOMI data:

<https://bit.ly/2xmpKON>

Where can I get the data?

All TROPOMI data products that have been publically released are available via the Copernicus Sentinel-5P Pre-Operations Data Hub:

Main site: <https://scihub.copernicus.eu/> TROPOMI site: <https://s5phub.copernicus.eu/dhus/#/home>

Rasterized data is viewable and can be accessed via the Google Earth Engine Data Catalog:

<https://developers.google.com/earth-engine/datasets/catalog/sentinel-5p/>

How can I best use the data?

The Product Readme files (PRF) are the best place for beginning to advanced user to start. Here you can find important information about the data quality and the validation status.

Product Readme files can be found here: <http://www.tropomi.eu/documents/prf>

The full Sentinel-5P Library: <https://sentinels.copernicus.eu/web/sentinel/user-guides/sentinel-5p-tropomi/document-library>

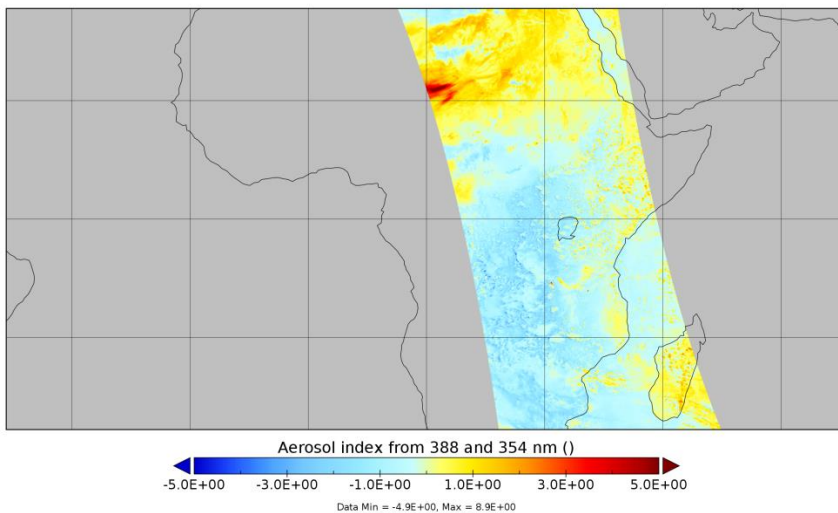
How can I plot the data?

Here are some simple data inspection and visualization tools for orbit based data files:

HDFview to examine contents and metadata: <https://www.hdfgroup.org/downloads/hdfview/>

Panoply for making orbit plots: <https://www.giss.nasa.gov/tools/panoply/>

Aerosol index from 388 and 354 nm



What should I do if I have questions about TROPOMI data?

For any questions regarding S5P/TROPOMI data products, please contact EOSupport@Copernicus.esa.int

