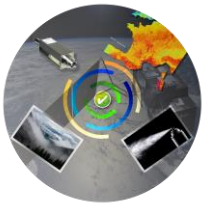
LAW Data Policy



Started in January 2020 for a 2-year period, the "Copernicus Space Component Validation for Land Surface Temperature, Aerosol Optical Depth and Water Vapor Sentinel-3 Products" (referenced in the following by "LAW") is a project managed by ESA/ESRIN. The LAW consortium is composed of ACRI-ST, also acting as the prime contractor, the Finnish Meteorological Institute (FMI), the SWANSEA University, the University of Leicester, the Karlsruhe Institute of Technology (KIT) and Spectral Earth

One of the main objectives of LAW project is to provide the users with all matchups between ground-based measurements and S3 operational data, used for validation of S3 AOD, IWV and LST datasets through a website interface developed in the frame of the project.

All users of the LAW products benefit from the free and open access policy as defined in the European Union's Copernicus regulation (N° 377/2014 of 3 April 2014) and Commission Delegated Regulation (N° 1159/2013), available on the Copernicus program's web site. The policy includes lawful use reproduction, distribution, communication to the public, adaptation, modification and combination with other data and information or any combination thereof. Access and use can only be limited in rare cases of security concerns, protection of Third Party risks or risks of service disruption.

By using the products, you acknowledge that these conditions apply and renounce to any claims for damages against the European Union and the LAW service providers.

Whenever you use the original or modified products or communicate them to the public, you are required to refer to the data source through (at least) the following statement:

This study has been undertaken using [data/information] from LAW "Copernicus Space Component Validation for Land Surface Temperature, Aerosol Optical Depth and Water Vapor Sentinel-3 Products" (https://law.acri-st.fr/app/data-access) founded by European space agency / European union. LAW products are developed and managed by ACRI-ST with the support the Finnish Meteorological Institute (FMI), the SWANSEA University, the University of Leicester, the Karlsruhe Institute of Technology (KIT) and Spectral Earth.

The generation of LAW products was possible thanks to data provided by Third Party ground stations' networks. These data represent years of effort and investment from scientific teams going to the fields, maintaining ground observation stations, ensuring the quality of the data to provide valuable and crucial ground information. For this reason, you are required to acknowledge originating PIs in any public document as follow:

We thank [list of PIs] and the [list of networks*] networks for the measurements collected in the field and used to generate LAW products.*

(*) Associated networks are displayed in the name of every matchup. PIs information can be found on the original network website. For any question please contact the LAW team (contact-law"at"acri-st.fr).

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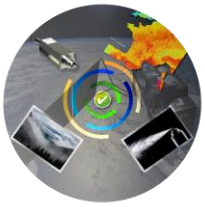


If LAW products are **used in Peer Reviewed journals, you are required to offer co-authorship** to the LAW team and the Third Party ground measurements PIs. In this case, please contact LAW team contact-law"at"acri-st.fr and Raw Data PIs.

You are also required to acknowledge originating networks according to their respective data policy, that can be found in the following websites or by quoting the relevant paragraph below :

TCCON network :

https://tccon-wiki.caltech.edu/Network_Policy/Data_Use_Policy

IGRA network :

https://data.nodc.noaa.gov/cgi-bin/iso?id=gov.noaa.ncdc:C00975

GRUAN network:

https://www.gruan.org/data/data-policy/

SUOMINET network:

"Suominet data are freely available in various formats to help facilitate access to both raw and derived data products. If you use these data for scientific research, we would appreciate an acknowledgment of both UCAR and Suominet. A suitable reference is: Ware, R.H. D. W. Fulker, S. A. Stein, D. N. Anderson, S. K. Avery, R. D. Clark, K. Droegemeier, J. P. Kuettner, and J. B. Minster, 2000: Suominet: A real-time national GPS network for atmospheric research and education. Bulletin of the American Meteorological Society 81, 677-694. »

AERONET network:

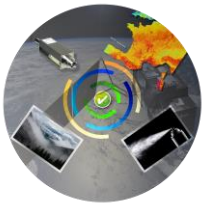
https://aeronet.gsfc.nasa.gov/new_web/data_usage.html

SKYNET network:

https://www.skynet-isdc.org/data_policy.php

SURFRAD network:

"The maintenance of the SURFRAD radiation budget network at a high level of quality is the result of the collective efforts of many people in many organizations. NOAA's Air Resources Laboratory, Office of Global Programs, and, more recently, NOAA's Climate Observations and Services Program have provided primary funding for the network. NASA has supplemented SURFRAD with special funding for



EOS validation. The accuracies and precision of SURFRAD measurements would not be possible without the generous contributions of DOE's National Renewable Energy Laboratory who have impeccably calibrated all of SURFRAD's shortwave instruments to world standards. Likewise, NOAA's Central UV Calibration Facility provides the basis for world-class calibrations of the UVB instruments used in the network. The Atmospheric Turbulence and Diffusion Division of NOAA's Air Resources Laboratory provides professional care to the network's wind monitors. Penn State, the USDA, the USGS, the Fort Peck Tribes, ARL's Special Operations and Research Division, and the Illinois State Water Survey provide telephone service, utilities, general maintenance, and expert troubleshooting at the stations they host. All of the aforementioned services are provided at little or no cost to the program in the spirit of good science and high-quality measurements. NOAA's SURFRAD program also enjoys the close collaboration of Chuck Long of DOE's Atmospheric Radiation Measurements Program, John DeLuisi, and Ellsworth Dutton, whose work has generally improved the quality and usefulness of surface radiation measurements."

By agreeing with this data policy, you accept that your personal details provided during LAW registration will be regularly sent to downloaded data's PI.