

CEOS Cal/Val Portal



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CEOS Cal/Val Portal - numbers



http://calvalportal.ceos.org

Some numbers: 3rd August 2022:

Users

1050 Registered Users

155 CEOS WGCV SAR Subgroup and 2 super-users

23 MTF Members

6 Cal/Val Doc Repository (rights for editing)

21 Terms and Definitions (rights for editing)

System availability

BC uses Nagios (http://www.nagios.org/) for monitoring the IT services.

The availability of the Cal/Val Portal is close to 100%.

















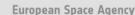












Latest Updates

There have been some updates in the portal, beyond maintenance and routine ones, the most relevant are:

CCN1 CEOS Cal/Val Portal and MySPPA maintenance and support (for 2 years starting from 2023) - SoW: ESA-EOPG-EOPGMO-SOW-52 (July 2022) proposal in-progress

SALVAL (Surface Albedo VALidation) (https://calvalportal.ceos.org/salval) - June 2022

TSIS-1 Hybrid Solar Reference Spectrum (https://calvalportal.ceos.org/tsis-1-hsrs) - June 2022 (to be finalized)

LPV DIRECT V2.1 database (https://calvalportal.ceos.org/lpv-direct-v2.1) - April 2022

Terms and Definitions Wiki –(https://calvalportal.ceos.org/t-d wiki) in continuous progress

QA4SM Evolution in FRM4SM in NEWS, Tools and (FRM4SM) in Project – June 2022

CEOS SAR Subgroup Workshop 2022 Announcement, Program and materials (https://calvalportal.ceos.org/ws2022) - July 2022

ACIX-II Land (https://calvalportal.ceos.org/acix-ii-land) - Jan. 2022

ACIX-II Aqua (https://calvalportal.ceos.org/acix-ii-aqua) - Jan. 2022

CMIX (https://calvalportal.ceos.org/cmix) - Jan. 2022

































SALVAL (Surface Albedo VALidation)

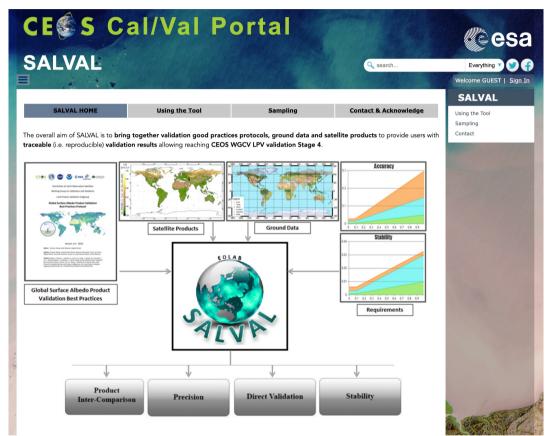


The <u>SALVAL (Surface Albedo VALidation) tool</u> provides the user with:

- A user-friendly interface for comparison of new satellitebased land surface albedo data products against ground reference data and existing validated land surface albedo products.
- A traceable, transparent, and consistent methodology following the CEOS WGCV LPV Surface Albedo validation good practices protocol for conducting the validation exercise.
- A flexible tool that allows for setting up the exercise with user defined requirements, albedo quantities, extents, or periods of interest to analyse results either interactively (via graphs and maps) or creating a standardized validation report in pdf format.
- A tool to benchmark new products, update product validation results or add new ground reference data.

References:

Wang, Z., et. al., Best Practice for Satellite Derived Land Product Validation (p. 45): Land Product Validation Subgroup (WGCV/CEOS), doi: 10.5067/DOC/C [WWW Document]. https://doi.org/doi:10.5067/DOC/CEOSWGCV/LPV/ALBEDO.001







TSIS-1 Hybrid Solar Reference Spectrum



References

Title: The TSIS-1 Hybrid Solar Reference Spectrum **Authors**: Coddington, O. M., Richard, E. C., Harber, D., Pilewskie, P., Woods, T. N., Chance, K., et al. (2021). **Geophysical Research Letters**, 48,

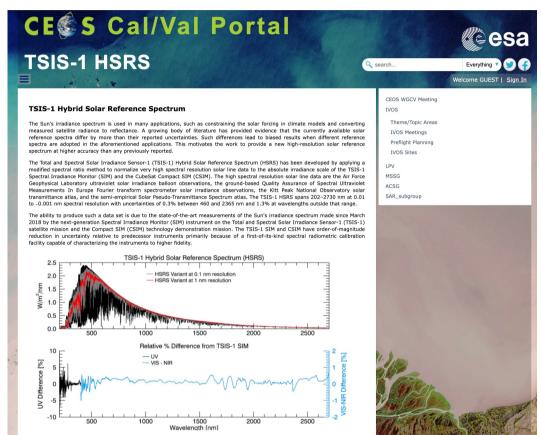
e2020GL091709. https://doi.org/10.1029/2020GL091709

URL: https://lasp.colorado.edu/lisird/data/tsis1 hsrs

CEOS WGCV recommendation

In March 2022, the TSIS-1 HSRS was recommended as the new solar irradiance reference spectrum by the Committee on Earth Observation Satellites (CEOS) Working Group on Calibration and Validation (WGCV).

This webpage is still "hidden" – it has to be reviewed by NPL



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LPV DIRECT V2.1 database



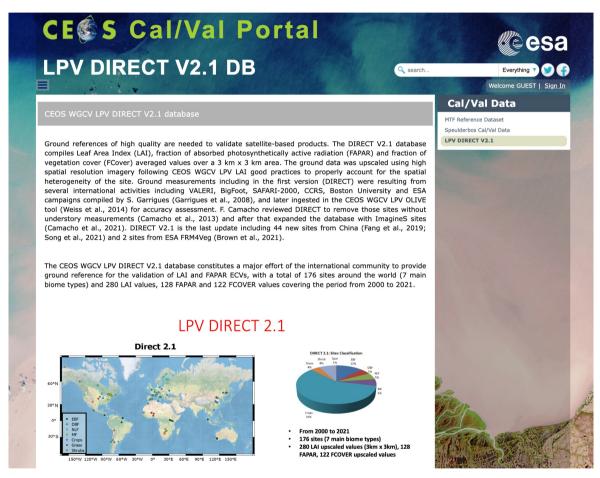
Please download here the DIRECT V2.1 database

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Data description

- LAI, LAIeff, FAPAR and FCOVER upscaled values over 3 km x 3 km
- LAI NoUnderstory, refers to sites where only overstory was measured and thus are not recommended for accuracy assessment of satellite products.



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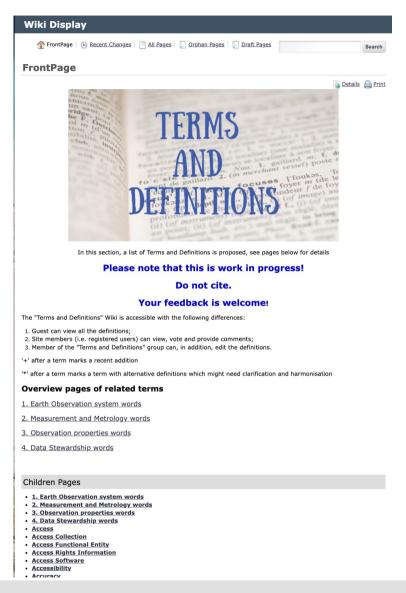


Terms and Definitions Wiki

The Terms and Definitions are in continuous progress thanks to the "Terms and Definitions" specific group. The webpage is accessible with the following differences:

- Guests can view all the definitions;
- Site members (i.e. registered users) can view, vote and provide comments;
- Members of "Terms and Definitions group" can, in addition, edit the definitions.

Feedback is welcome!



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ACIX-III Land, Aqua and CMIX-II webpages



Webpages are available for Atmospheric Correction Inter-comparison exercises (Land and Aqua) and for Cloud Masking Inter-comparison exercise. Description of the projects, processors, sites, reference data, metrics as well as results have been included.







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Next Steps and Plan



- To implement GSICS actions: Links to other Cal/Val portals (IMD/ISRO) and Tools; add a summary with links to GSICS tools and a new notebooks infrastructure.
- To implement webpages for ESA IDEAS/QA4EO Cal/Val data and activities.
- CCN1 finalization KO and PM teleconf.
- To finalize the Actions in progress
- CEOS WGCV teleconf
- Periodic Newsletter 6 months
- Dedicated teleconferences



























