

CEOS Cal/Val Portal Update

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Slides provided by Paolo Castracane
RHEA c/o ESA ESRIN

CEOS/IVOS Perth, 25-29 March 2019

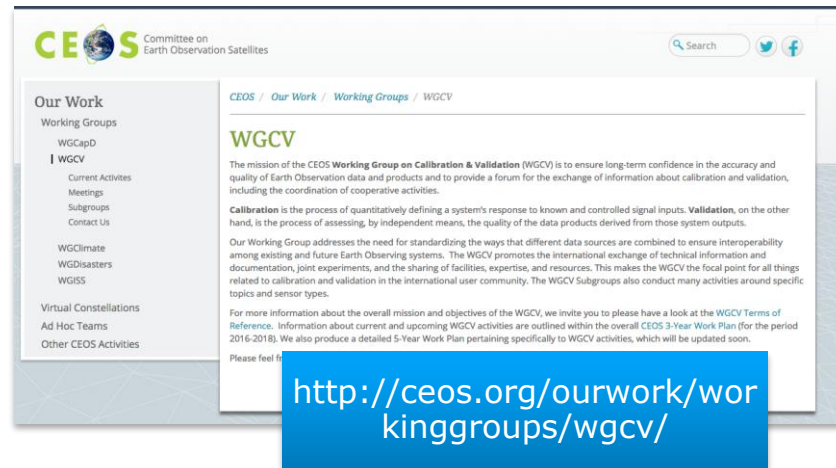
Table of Contents:

1. Cal/Val Portal overview
2. Current status
3. Proposed re-shape (Mock-up)
4. Conclusion

Outreach of CEOS WGCV



Outreach of CEOS working group CalVal (WGCV) is divided in two websites:



- Hosted by ESA
- Include mainly technical content, tools, data access and literature.

- Hosted by NASA
- Contains mainly current activities, objectives, organizational, and other content-related matter



CEOS Cal/Val Portal Overview

- The CEOS Cal/Val portal is a web portal funded by ESA and made available to the CEOS WGCV community as a reference point to share, store and publish Cal/Val related data and information.
- The Portal is technically managed by Brockmann Consult GmbH
- Two years Contract for Maintenance and Evolution has been signed on April 2018

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CEOS Cal/Val Portal

esa

Home CEOS WGCV Docs & Forum Cal/Val Sites Projects Data Access & Tools Feedback

Welcome GUEST | Sign In

Everything ▾

Highlights

IVOS Subgroup

News

- [The MTF Reference Dataset](#)
- [Technical notes on geometric calibration for SAR](#)
- [Updated version of the OLIVE DIRECT database](#)
- [CEOS Reference solar irradiance spectrum](#)
- [WS on Radiometric Calibration for European Optical Missions](#)

RSS

Literature

- [CEOS Reference solar irradiance spectrum](#)
- [Calibration and Validation of Satellite Sensors at NOAA/NESDIS/ORA](#)
- [EO-1 Science Validation Work](#)
- [MERIS Instrument Calibration](#)
- [Determining the uncertainty associated with integrals of spectral quantities](#)

RSS

The CEOS Cal/Val Portal

The CEOS Cal/Val Portal provides support to worldwide activities on calibration and validation, and specifically ensures that sensor intercalibration is favoured in a standardised way. The overall goal is to increase measurement accuracy of all the sensors which will be supported by this system and to increase the inter-operability between EO platforms

Read more...

Slideshow

"When you can measure what you are speaking about and express it in numbers you know something about it; but when you cannot express it in numbers, your knowledge is of a meagre and unsatisfactory kind" (Lord Kelvin, 1883)

... A Memory from the first lesson of Physics.

When the professor entered in the classroom for the first lesson of physics, during the years of the high school, everybody was trying to imagine what

Increasing Truthness

Increasing Accuracy and Decreasing Uncertainty

Increasing Precision

- **Home Page:** Main Menu, Mission Statement within the CEOS Cal/Val Portal box, Highlights, News, Literature and Slideshow.

From main menu:

- **Home:** News & Events, Links
- **CEOS WGCV:** CEOS WGCV – [CEOS Meeting](#), [CEOS Publications](#), ACSG (Atmospheric Composition Sub Group) , IVOS (Infrared and Visible Optical Sensors SubGroup), LPV (Land Product Validation SubGroup), SAR (Synthetic Aperture Radar SubGroup) and [MSSG \(Microwave Sensor Subgroup\)](#)
- **Docs & Forum:** Methodology and Guidelines, QA4EO, Literature, Forum and Missions
- **Cal/Val Sites:** CEOS LandNet Sites, Calibration Test Sites, Cryonet Sites, RadCalNet Prototyping, Radiometric Sites, [PICS](#)
- **Projects:** [FRM](#), MVT,ALTS, G-VAP, SnowPEX, ACIX
- **Data Access & Tools:** Query Products, Metric Data, [MTF Reference Dataset](#), CalVal SW Tools, CalVal SW Services, DIMITRI, COVE, 6s Input Configuration, OLIVE, IMPETUS

[* in blue the latest updates/inclusions](#)

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CEOS Cal/Val Portal – current Status

Home Page:

- A renewal of the Home page is planned
- RSS subscription for “News” and “Literature”.
- “News & Events” need a frequent update
- New dedicated pages for: “Workshops & Conferences” “Reference & Standard” and “Contact”. Forum panel will be in the Home page

The screenshot displays the CEOS Cal/Val Portal website. At the top left is the CEOS Cal/Val Portal logo, and at the top right is the ESA logo. A navigation menu includes: Home, CEOS WGCV, Docs & Forum, Cal/Val Sites, Projects, Data Access & Tools, Feedback, and a search bar with the text "Everything". A user greeting "Welcome GUEST | Sign In" is visible.

The main content area is divided into several sections:

- Highlights:** Features a large image of a snowy landscape with the text "SnowPEX Project" below it.
- News:** Lists several updates: "Updated version of the OLIVE DIRECT database", "CEOS Reference solar irradiance spectrum", "WS on Radiometric Calibration for European Optical Missions", "2nd ACIX workshop", and "CALCON Technical Meeting". It includes an RSS icon.
- Literature:** Lists articles such as "CEOS Reference solar irradiance spectrum", "Calibration and Validation of Satellite Sensors at NOAA/NESDIS/ORA", "EO-1 Science Validation Work", "MERIS Instrument Calibration", and "Determining the uncertainty associated with integrals of spectral quantities". It also includes an RSS icon.
- The CEOS Cal/Val Portal:** A text box explaining the portal's purpose: "The CEOS Cal/Val Portal provides support to worldwide activities on calibration and validation, and specifically ensures that sensor intercalibration is favoured in a standardised way. The overall goal is to increase measurement accuracy of all the sensors which will be supported by this system and to increase the inter-operability between EO platforms." It includes a "Read more..." link.
- Slideshow:** Shows a satellite image of a snowy region. Below it is a quote: "When you can measure what you are speaking about and express it in numbers you know something about it; but when you cannot express it in numbers, your knowledge is of a meagre and unsatisfactory kind" (Lord Kelvin, 1883). This is followed by the heading "... A Memory from the first lesson of Physics." and another quote: "When the professor entered in the classroom for the first lesson of physics, during the years of the high school, everybody was trying to imagine what". To the right of the text is a diagram showing four target-like graphics with arrows pointing towards a central point, labeled "Increasing Accuracy and Decreasing Uncertainty". The vertical axis is labeled "Increasing Trueness" and the horizontal axis is labeled "Increasing Precision".



CEOS Cal/Val proposed re-shape

"Mission Statement" extended by the read more option, and some clickable blocks

show/hide menu and sub-menu (by a click)

News and Forum



CEOS

CEOS Cal/Val Portal

Home | **CEOS WGCV** | Docs & Forum | Cal/Val Sites | Projects | Data Access & Tools | Feedback | Welcome GUEST | Sign In

Search... Everything ▾

- CEOS Meeting
- CEOS Publications
- ACSG
- IVOS
- LPV
- SAR
- MSSG

The CEOS Cal/Val Portal: Calibration and Validation activities around space-borne sensors. [read more](#)

The CEOS Cal/Val Portal provides support to worldwide activities on calibration and validation, and specifically ensures that sensor intercalibration is favoured in a standardised way. The overall goal is to increase measurement accuracy of all the sensors which will be supported by this system and to increase the inter-operability between EO platforms.

- [Data Access](#)
- [Cal/Val Sites](#)
- [Reference & Standard](#)
- [Links](#)
- [Contacts](#)
- [Projects](#)
- [Conference & Workshops](#)
- [Tools](#)
- [Documents](#)
- [CEOS WGCV subgroups](#)

News

- Technical notes on geometric calibration for SAR
- Updated version of the OLIVE DIRECT database
- CEOS Reference solar irradiance spectrum
- WS on Radiometric Calibration for European Optical Missions
- 2nd ACIX workshop

[RSS](#)

Forum

- Resent Post
- Resent Post
- Resent Post
- Resent Post
- Resent Post

CEOS

CEOS CalVal Portal – Current Status

CEOS WGCV section:

[CEOS Meeting](#)

[CEOS Publications](#)

Subgroups: ACSG, IVOS, LPV, SAR and [MSSG \(TMSG to be added ?\)](#)

Repository (to be added)

The screenshot displays the CEOS Cal/Val Portal website. At the top left is the CEOS Cal/Val Portal logo, and at the top right is the ESA logo. A navigation bar includes links for Home, CEOS WGCV, Docs & Forum, Cal/Val Sites, Projects, Data Access & Tools, and Feedback. A search bar and a user login area (Welcome GUEST | Sign In) are also present. The main content area features a dropdown menu for 'CEOS WGCV' with options for Meeting, Publications, ACSG, IVOS, LPV, SAR, and MSSG. Below this, there are sections for 'IVOS Subgroup' and 'LPV Subgroup', each with a mission statement and a 'Read more...' link. The 'IVOS Subgroup' mission is to ensure high quality calibration and validation of infrared and visible optical data. The 'LPV Subgroup' mission is to foster quantitative validation of higher-level global land products. A 'SAR Subgroup' section is partially visible at the bottom. On the right side, there is a 'WGCV Home' section with a list of links for CEOS Meeting, CEOS Publications, ACSG, IVOS, LPV, SAR, and MSSG. At the bottom left of the page, there is a row of national flags representing various countries.



CEOS Cal/Val proposed re-shape

The CEOS WGCV page.
It includes:

- All Subgroups: info, relevant materials etc.
- CEOS Home and Newsletter links
- CEOS Repository: a dedicated and shared space for relevant documents



CEOS CalVal Portal – Current Status

Doc & Forum:

The contents need an update for both “Methodology and Guidelines” and “Literature”

In this section we propose to include/update at least:

- Terms and Definitions,
- Standard in terminology and methodology
- Relevant technical reports for Cal/Val activities.
- Updated material concerning LPV Supersites
- Cal/Val activities for Ocean Color
- Sea Surface Temperature, from the SMOS Mission

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Library

Title
CEOS Reference solar irradiance spectrum
Calibration and Validation of Satellite Sensors at NOAA/NESDIS/ORA
EO-1 Science Validation Work
MERIS Instrument Calibration
Determining the uncertainty associated with integrals of spectral quantities
InterCalibration of AATSR and MERIS reflectances
Fiducial Reference Measurements for Sentinel-3
Guides to the expression of uncertainty
Evaluation of measurement data – Guide to the expression of uncertainty in measurement

CalVal Important Literature

The tables below contain lists of references focussing on calibration/validation relevant subjects.

This list will evolve continuously over time. If you feel that documents are missing, please feel free to use the [feedback](#) functionality of the CalValPortal to submit your suggestions.

Please note that the CalVal Portal does not provide direct links to full documents (although they might exist) if these documents are originated from peer-reviewed journals, or if the copyright conditions are unclear.

- [General Topics](#)
- [Projects](#)
- [IVOS \(Infrared and Visible Optical Sensors\)](#)
- [Microwave Instruments](#)
- [SAR \(Synthetic Aperture Radar\)](#)

General Topics

Author(s)	Resource Title/Description
A. Huete et al.	EO-1 Science Validation Work .
J. C. Price	Radiometric calibration of satellite sensors in the visible and near infrared: History and outlook. REMOTE SENS. ENVIRON. 22, 3-9, 1987.
J.G. Yoe et al.	Calibration and Validation of Satellite Sensors at NOAA/NESDIS/ORA: Summary of Methods and Recent Results.
J. B. Zielinski, M. S. Petrovskaya	The possibility of the calibration/validation of the GOCE data with the balloon-borne gradiometer.
B. A. Franz et al.	Sensor-independent approach to the vicarious calibration of satellite ocean color radiometry. Appl. Opt. 46, 5068-5082, 2007.
S.B. Hooker et al.	Above-Water Radiometry in shallow coastal waters. Appl. Opt., 21, 4254-4268, 2004.
C. Mobley	Estimation of the remote-sensing reflectance from above surface measurements. Appl. Opt., 38, 7442-7455, 1999.
A. Morel, B. Gentili	Diffuse reflectance of oceanic waters, III. Implication of bidirectionality for the remote sensing problem. Appl. Opt., 35, 4850-4862, 1996.
A. Morel et al.	Bidirectional reflectance of oceanic waters: Accounting for Raman emission and varying particle scattering phase function. Appl. Opt., 41, 6289-6306, 2002.
G. Zibordi et al.	An autonomous above-water system for the validation of ocean color radiance data. IEEE Trans. Geoscience and Rem. Sens., 42, 401-415, 2004.
G. Zibordi et al.	A time-series of above-water radiometric measurements for coastal water monitoring and remote sensing product validation. IEEE Geoscience and Rem. Sens. Lett., doi: 10.1109/LGRS.2005.858486, 2005.

Docs & Forum

Methodology and Guidelines

Calibration Methods Requirements
Calibration Methods Guidelines

Validation Theoretical Study
Quality Control

QA4EO

Literature

Forum
Missions

CEOS CalVal Portal Current Status

As part of the FRM4SAR project on geometric calibration, DLR and UZH have written two documents addressing the topic of the geometric calibration for SAR:

- The first TN (TN 100) aims at explaining how to deploy a proper site based on Corner Reflectors.
- The second TN (TN 200) aims at defining a protocol for performing the measurements and corrections for a proper survey

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Calibration Method Guidelines

Document Name	PDF	Author(s)	Description
Survey Protocol for Geometric SAR Sensor Analysis	PDF	U. Balss et al.	This technical note (DLR-FRM4SAR-TN-200, Issue 1.4, 2018-04-26) aims at defining a protocol for performing the measurements and corrections for a proper survey
Corner Reflector Deployment for SAR Geometric Calibration and Performance Assessment	PDF	A. Schubert et al.	This technical note (UZH-FRM4SAR-TN-100, Issue 1.03, 2018-08-22) aims at explaining how to deploy a proper site based on Corner Reflectors
Retrieval of the aerosol phase function from CIMEL C138 measurements	PDF	F. Zagolski et al.	The objective here is to describe the different steps required to process the CIMEL data in order to derive the aerosol phase function.
Introducing the IOP in the 6S code	PDF	R. Santer et al.	This document describes how to input the aerosol IOPs in the 6S.
Best Practice Guidelines for Pre-Launch Characterization and Calibration of Instruments for Passive Optical Remote Sensing	PDF	R. U. Datla et al.	The pre-launch characterization and calibration of remote sensing instruments should be planned and carried out in conjunction with their design and development to meet the mission requirement
Optical Sensors High Resolution Geometry Validation Methodology	PDF	A. Gruen et al.	Validation of Geometry for High Resolution Optical Sensors

Methodology and Guidelines

- Calibration Methods Requirements
- Calibration Methods Guidelines**
- Validation Theoretical Study
- Quality Control

CEOS

CEOS CalVal Portal: examples of key documents

Three documents have been indicated (email exchange)



- *CEOSTermsAndDefinitions.pdf* Term and definitions
- *IASB-BIRA_Standard_Terms_and_Definitions.pdf* Standard Terms and Definitions
- *Schaepman_Sage_HB_RS09.pdf* Radio Frequency Interference Concepts to Measured Quantities Gabriela Schaepman Handbook of Remote Sensing

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Regarding Super Sites:

- *EOLAB_18PPTo4_LPVE_SuperSites_Camacho.pdf*

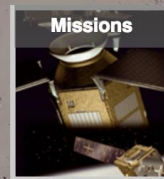


Reference & Standard

CEOS Cal/Val proposed re-shape

- “Documents” and “Reference & Standard” two separated pages
- Documents page will include relevant and updated information as well as information on current satellite Missions/Sensors
- Reference & Standard represents the place holder for all the materials, methodologies, guidelines and standard references for Cal/Val activities

Feedback very welcome !!!



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“CalVal Sites”

- CEOS LandNet Sites
- Calibration Test Sites
- Cryonet Sites
- RadCalNet Prototyping
- Radiometric Sites
- [PICS](#)

PICS Reports

Reports

Last Updated 10/18/18 2:33 PM | 0 Subfolders | 10 Documents

▼ Documents

Name	Size
NOV-FE-0084-NT-012 Issue. 3 – Rev. 0	19,039.9k
NOV-FE-0084-NT-014 Issue 2 Rev. 1	2,307.5k
NOV-FE-0084-NT-016 Issue. 1 – Rev. 1	4,748.9k
NOV-FE-0084-NT-018 Issue. 1 – Rev. 1	925.6k
NOV-FE-0084-NT-020 Issue. 3 – Rev. 0	7,906.9k
NOV-FE-0084-NT-022 Issue. 2 – Rev. 0	1,754.9k
NOV-FE-0084-NT-024 Issue. 2 – Rev. 0	7,977.7k
NOV-FE-0084-NT-026 Issue. 2 – Rev. 0	5,174.4k
NOV-FE-0084-NT-028 Issue. 1 – Rev. 0	734.3k
NOV-FE-0084-NT-030 Issue. 1 – Rev. 0	4,325.5k

Showing 10 results. Items per Page 20 Page 1 of 1 First Previous Next Last

Cal/Val Sites

- CEOS LandNet Sites
- Calibration Test Sites
- Cryonet Sites
- RadCalNet Prototyping
- Radiometric Sites
- PICS
- PICS Reports**

Pseudo Invariant

Pseudo Invariant Calibration sensors. Due to their characterisation of the (Office National d'Etude out a study under ESA public to support the r

- Revisiting the list of multi-spectral remote sensing and 100 km spatial
- Collecting sand samples
- Analysing in laboratory
- Assessing the performance of surface reflectance
- Building a database of measurements available
- Determining a climate atmosphere (TOA)

In the frame of the ESA-PICS study, the PICSAND database of sand optical properties has been built and made available online on the [PICSAND portal](#)

The final reports of this study are available here: [PICS Reports](#)

CEOS Cal/Val proposed re-shape

The Cal/Val sites page hosts references of the CEOS endorsed test sites according to subgroup's domain

New Action from WGCV-44!

Cal/Val Sites

CEOS has endorsed a number of test sites that are used for calibration and validation activities. The sites can be grouped according their subgroup's domain and divided by applications, see the tree diagram below

CEOS Cal/Val SITES

AC subgroup | IVOS subgroup | LPV subgroup | MS subgroup | SAR Subgroup

CEOS supersites

AC networks | Land Sites | Ocean Sites | MSSG test Sites | Targets database

NDACC | USGS Catalogue | Open Ocean

TCCON | PICS | MTF Reference Dataset | Moby | Boussole

WOUDC | PICSCAR | Geometry | Coastal water

SHADOZ | LPV supersites | Oligotrophic water/Rayleigh

TOLNet | RadCalNet

PGN (Pandonia)

MAX-DOAS

AERONET

GRUAN

EARLINET

Others

Acronyms	Description	Acronyms	Description
NDACC	Network for the Detection of Atmospheric Composition Change	USGS Catalogue	Test Sites Catalog: Radiometric, Geometric and Spatial Sites
TCCON	Total Carbon Column Observing Network	PICS	Pseudo Invariant Calibration Sites
WOUDC	World Ozone and Ultraviolet Radiation Data Centre	PICSCAR	The CEOS initiative to better characterise the PICS
SHADOZ	Southern Hemisphere Additional OZonesondes	LPV	Land Product Validation
TOLNet	Tropospheric Ozone Lidar Network	RadCalNet	Radiometric Calibration Network
PGN (Pandonia)	Pandonia Global Network	Moby	Marine Optical BuoY
MAX-DOAS	Multi-AXis Differential Optical Absorption Spectroscopy	Boussole	BOUée pour l'acquiSition d'une Série Optique à Long termE
AERONET	Aerosol Robotic Network		
GRUAN	The Global Climate Observing System (GCOS) Reference Upper-Air Network		
EARLINET	European Aerosol Research Lidar Network		

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CEOS Cal/Val Portal – Current Status

The “**Projects**” section need a frequent update,

Reference to:
the Fiducial Reference
Measurement (FRM) has been
added

<https://earth.esa.int/web/sppa/activities/frm>

The screenshot shows the CEOS Cal/Val Portal website. At the top, there is a navigation bar with links for Home, CEOS WGCV, Docs & Forum, Cal/Val Sites, Projects, Data Access & Tools, and Feedback. The 'Projects' dropdown menu is open, showing options for FRM, MVT, ALTS, G-VAP, SnowPEX, and ACIV. The 'Highlights' section features a satellite image of Earth. The 'News' section lists several articles, including 'The MTF Reference Dataset' and 'Technical notes on geometric calibration for SAR'. The 'Literature' section lists various scientific papers related to calibration and validation. The main content area is titled 'Fiducial Reference Measurements: FRM' and provides a detailed description of the FRM framework. It includes a list of specific FRM projects with external links, such as FRM4VEG, FRM4SOC, FRM4ALT, FRM-BOUSSOLE, FRM4DOAS, FRM4GHG, FRM4STS, and Pandonia FRM. The footer contains contact information for the Web Curator and ESA Responsible, along with the year 2019.

CEOS Cal/Val Portal

esa

Home | CEOS WGCV | Docs & Forum | Cal/Val Sites | Projects | Data Access & Tools | Feedback | Welcome GUEST | Sign In

Everything ▾

Highlights

News

Literature

EO Mission Performance ▾ | Documentation ▾ | Activities ▾ | Meetings & Workshops ▾

You are here: Home > Activities > Fiducial Reference Measurements: FRM

+ Share | f | t | e | m

- Fiducial Reference Measurements: FRM

Fiducial Reference Measurements (FRM) are a suite of independent, fully characterized, and traceable ground measurements that follow the guidelines outlined by the GEO/CEOS Quality Assurance framework for Earth Observation (QA4EO). These FRM provide the maximum Return On Investment (ROI) for a satellite mission by delivering, to users, the required confidence in data products, in the form of independent validation results and satellite measurement uncertainty estimation, over the entire end-to-end duration of a satellite mission. Within this context, the SPPA team manages a series of projects targeting the validation of ESA altimetry, atmosphere, land, and ocean products.

FRM4VEG: Fiducial Reference Measurements for Vegetation	External link
FRM4SOC: Fiducial Reference Measurements for Satellite Ocean Colour	External link
FRM4ALT: Fiducial Reference Measurements for altimetry	External link
FRM-BOUSSOLE: Buoy for the acquisition of long-term optical time series	External link
FRM4DOAS: Fiducial Reference Measurements for Ground-Based DOAS Air-Quality Observations	External link
FRM4GHG: Reference Measurements for Ground-Based FTIR Greenhouse Gas Observations	External link
FRM4STS: Fiducial Reference Measurements for validation of Surface Temperatures from Satellites	External link
Pandonia FRM: Fiducial Reference Measurements for Ground-Based Direct-Sun Air-Quality Observations	External link

Web Curator: sppaweb@eo-sppa.org | Philippe Goryl | 18/01/2019

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When the professor entered in the classroom for the first lesson of physics, during the years of the high school, everybody was trying to imagine what

CEOS Cal/Val proposed re-shape

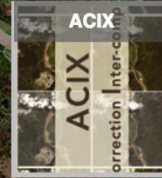
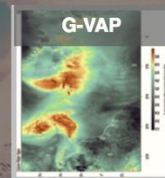
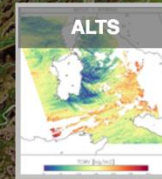
Projects includes relevant activities.

Fiducial Reference Measurement (FRM) projects will be included

QA4EO, MVT, ALTS, G-VAP, SnowPEX and ACIX are maintained



Projects



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CEOS Cal/Val Portal - Current Status

“Data Access & Tools”

- Several links included in the “CalVal Software Tools” have been updated.
- [MTF Reference Dataset](#) included recently

The screenshot displays the CEOS Cal/Val Portal website. At the top left is the CEOS Cal/Val Portal logo, and at the top right is the ESA logo. A navigation bar contains links for Home, CEOS WGCV, Docs & Forum, Cal/Val Sites, Projects, Data Access & Tools, and Feedback. The user is identified as GUEST. The main content area features a 'Documents and Media Display' for a folder named 'results'. The folder is empty, with a message: 'There are no documents or media files in this folder.' A context menu is open over the folder, showing options: Edit, Move, Permissions, Delete, Add Subfolder, Add Document, Add Shortcut, and Access from Desktop. A 'Web Content Display' section at the bottom provides instructions on how to upload MTF result data, requiring an account and login. A sidebar on the right contains a link to the 'MTF Reference Dataset'.

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CEOS Cal/Val Portal – Current Status

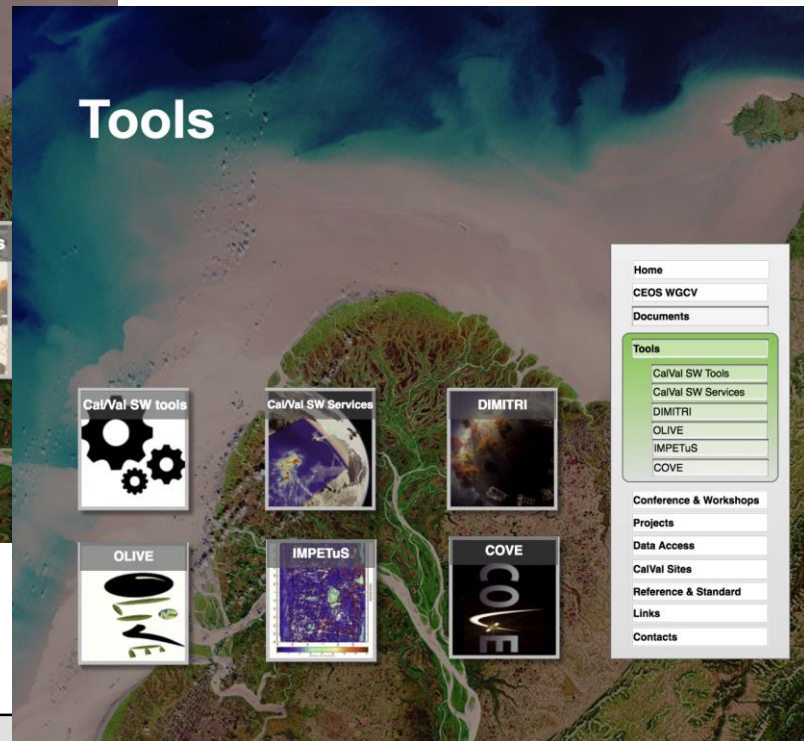
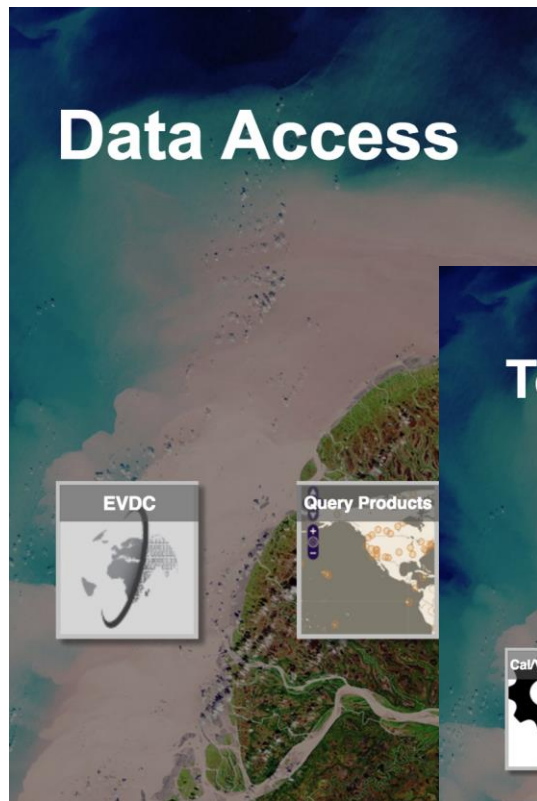
Clicking on “**Tools**” five submenu items are available as tools: DIMITRI, COVE, 6s input configuration, OLIVE and IMPETuS. Some links need an update

Regarding the OLIVE Tool, it would not have to be maintained online. Instead, the OLIVE code will be transitioned into open source format (either in Python and provisioned fully through github or similar interface), so that validation groups running their portals can get access to one single tool, endorsed by WGCV. The code, binaries files, and documentation, will be hosted at the CEOS Cal/Val portal; as well as links to institutions that have integrated the code into their own systems.

The OLIVE DIRECT 2.0 ground database has been recently made available on the portal

CEOS Cal/Val proposed re-shape

- “Data Access” and “Tools” will be two separated pages
- Data Access will be dedicated to all the significant CalVal data providers. The plan is to include the Products Query CalVal Portal and the EVDC (ESA Atmospheric Validation Data Centre)
- The page “Tools” will host relevant tools: e.g. DIMITRI, OLIVE, IMPETuS and COVE with the possibility to include new ones.



CEOS Cal/Val proposed re-shape

- Conferences & Workshops will provide a time ordered list for the relevant events with links to the official websites for conferences and workshops.
- The Links page will offers a substantial list of relevant links subdivided by topics.
- Contacts will include information on the web administrators for general and technical issues.

Links

General Topics	
Link	
WGCV Home	WGCV (Working Group on Calibration and Validation)
IVOS Home	CEOS/IVOS (International Validation Overlap Study)
World-Wide Test Sites	USGS Catalog of World Wide Test Sites
GIS Cal/Val	GIS Calibration and Validation
.....	
.....	

Institutes/Laboratories	
Link	
CCRS	Canada Centre for Space Remote Sensing Science
CIRA/Colorado State University	CIRA/Colorado State University
STAR - Home	Center for Space and Terrestrial Air Remote Sensing and Applications
NOAA - Meteorological Sensors	NOAA - Calibration and Validation of Meteorological Sensors
NESDIS/NOAA	National Environmental Satellite, Data, and Information Service
.....	
.....	

Conferences & Workshops

Conferences & Workshop

- **Ocean Science Meeting 2018**
11-16 February 2018 - Portland, Oregon USA
- **LPVE – Land Product Validation and Evolution**
27 Feb – 1 March 2018 - ESA-ESRIN Frascati (Rome) Italy
- **S3VT Sentinel-3 Validation Team meeting**
13-15 March 2018 - EUMETSAT HQ, Darmstadt, Germany (Presentation now available)
- **European Geosciences Conference**
8-13 April 2018 - Vienna
- **FRM4ALT Fiducial Reference Mission**
23-26 April 2018 - Charleston
- **19TH INTERNATIONAL CONFERENCE ON CALIBRATION AND VALIDATION**
4 to 8 June 2018 - EUMETSAT HQ, Darmstadt, Germany
- **COSPAR 2018**
14-22 July 2018 - Pasadena
- **IGARSS 2018**
23-27 July 2018 - Valencia
- **25 Years of Progress**
24-29 September 2018 - Darmstadt

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CalVal Portal Team

General Contacts

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- For CEOS CalVal Portal two years Contract for Maintenance and Evolution has been signed on April 2018
- A detailed review on the Current CEOS CalVal portal has been performed exploring all the items contained in the web portal, this has driven to the definition of a number of Actions
- A Mock-up has been presented to define new site organization and graphic appearance.
- A test environment for the new portal has been prepared by Brockmann Consult, Home Page and CalVal Sites page are ready.
- Feedback from the CEOS community is expected, internal feedback is welcome.