

Report on CEOS WGCV SAR Subgroup Activities

**CEOS WGCV 35th Plenary
Hyderabad, India
Sep 23-28, 2012**

M. Zink (presented by S. Srivastava)

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SAR Subgroup Members

- Mailing list contains more than 250 entries
- From 30 countries
- Agencies of countries operating SAR missions are most active members: CSA, DLR, ESA, JAXA, NASA/JPL
- All mission/system operators participate

CEOS WGCV SAR Subgroup

- Mission:
 - To foster high-quality synthetic aperture radar data from airborne and spaceborne systems through precision calibration in radiometry, phase and geometry, and validation of higher level products
- Objectives:
 - Act as a forum for international technical interchange on the evolving methodologies, techniques and equipment of SAR calibration and validation.
 - Determine standard definitions and calibration / validation requirements for synthetic aperture radar imaging systems.
 - Support harmonisation of user products and formats as appropriate.
 - Facilitate international cooperative programmes in the calibration and validation of SAR systems.
 - Educate the SAR community

CEOS WGCV SAR Subgroup

- Action Plan:
 - A number of new SAR missions have been launched recently or are being in preparation. Primarily based on active phase array antenna technology these missions indicate a clear trend to higher resolution and increased radiometric and geometric performance. **Novel calibration concepts and techniques for such missions are one of the key topics.** Future systems featuring digital beam forming techniques based on multi-channel architectures will require further sophistication of calibration techniques and procedures.
 - **Identification and characterisation of calibration and validation reference sites** (to include both natural and man made targets) for the purposes of providing an easily accessible source of reference calibration data to data providers will continue.
 - It is planned to keep the **annual subgroup meeting** to discuss results and new developments.

New Website Development (by Björn Döring)



Documents library (bundle information):

- Papers of previous workshops
- Workshop resolutions
- Meta studies
- Guidelines



Data library

- Common test sites (geolocations)
- Alignment angles for calibration targets



Contacts/members:

- Central, up-to-date member list
- Members can sign up/cancel membership
- Call for papers & newsletter (if necessary)



The Committee on Earth Observation Satellites
Working Group on Calibration and Validation
Synthetic Aperture Radar Subgroup

Calibration and Validation in Synthetic Aperture Radar

Welcome at the CEOS SAR Cal/Val Working Group!

Documents

In the documents archive you can not only find papers and presentations of past workshops, but also Working Group recommendations and proposed standards.

Calibration Sites

The working group is collecting information on point-target and distributed-target calibration sites, which are open for collaborative use. Many thanks to the contributing organizations for making this possible!

Registration

In order to receive newsletters (e.g. Workshop announcements and Call For Papers), and to facilitate collaboration, please register below. You will be able to unregister any time.

[Register here](#)

News from the CEOS SAR Cal/Val Working Group

Workshop 2013 Abstract Submission Is Open

The online registration and abstract submission for the CEOS SAR Cal/Val Workshop 2013 in Alabama has just opened. We are looking forward to your workshop abstracts, which you should submit until January 15, 2013.

Revised Recommendations of the WG Meeting 2010 Online

During the 2010 Workshop in Zurich, a new CEOS SAR data format was proposed. The text has now been reviewed and corrected by several organizations and can now be downloaded. This draft will be presented at the next Workshop for ratification.

Read all news, or follow us on [twitter](#) 

About

The SAR Cal/Val CEOS working group is dedicated to enhance coordination, promote international cooperation, and focus activities in the calibration and validation of Earth observations based on Synthetic Aperture Radar Systems. [Read more...](#)



The Committee on Earth Observation Satellites
Working Group on Calibration and Validation
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About

CEOS SAR Cal/Val Mission

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How To Participate

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Short History

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Announcement and Registration

1. E-mail to persons on current mailing list
2. One-time online user registration
3. Additionally: On-site user registration during upcoming workshop

Optional / Later Extensions

Workshop management

- Registration
- Upload of abstracts
- Review process

Schedule

1. November 2012: Prototype
2. By the end of 2012: Going online

Proposed subdomain address:

sar-calval.ceos.org



**2011 SAR CAL/VAL Workshop
Fairbanks, Alaska**

Next CEOS SAR CAL/VAL Workshop

- Still in contact with Korea Aerospace Research Institute for workshop in first half of 2013, no confirmation yet
- Alternatives:
 - in combination with TerraSAR-X/TanDEM-X Science Meeting (Q2/2013)
 - in combination with ASAR Workshop (Q3/2013)
- Future strategy: combine CEOS SAR Cal/Val Workshop with other SAR conference (ASAR, EUSAR, APSAR, ...)