



# CEOS WGCV SAR Subgroup Activities

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### **CEOS Organizational Schematic**

Committee on Earth **Observation Satellites** (Plenary) Chair: INPE Strategic Implementation Team (SIT) Chair: JAXA

**CEOS Executive Officer** (CEO): ESA

Systems Engineering Office (SEO): NASA

Secretariat CEOS Chair, Past Chair, Future Chair, ESA/EUMETSAT, MEXT/JAXA, NASA/NOAA

Working Group on Information Systems and Services (WGISS) Chair: GISTDA

Working Group on Education, Training, and Capacity Building (WGEdu) Chair: NOAA, INPE

Working Group on Calibration and Validation (WGCV) Chair: ESA, USGS

**CEOS Societal** Benefit Area (SBA)

Coordinators

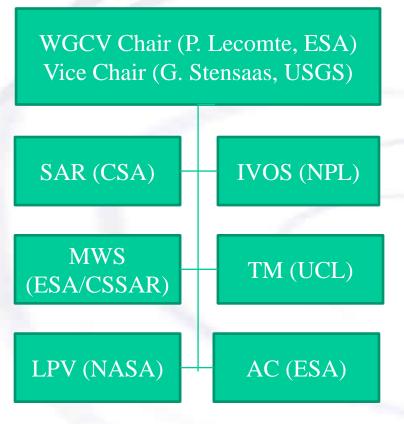
- Agriculture - Biodiversity
- Climate - Disasters
- Ecosystems
- Energy
- Health
- Water
- Weather

#### Virtual Constellations

- Land Surface Imaging
- Ocean Surface Topography
- Atmospheric Composition
- Precipitation
- Ocean Color Radiometry
- Ocean Surface Vector Wind

## **CE** SGCV Organizational Structure





Synthetic Aperture Radar (SAR)

Chair: Dr. Satish Srivastava, CSA

Infrared Visible Optical Sensors (IVOS)

Chair: Dr. Nigel Fox, NPL

Microwave Sensors (MWS)

Chairs: Dr. Christopher Buck, ESA

Dr. Xiaolong Dong, CSSR

Terrain Mapping (TM)

Chair: Prof. Jan-Peter Muller, UCL

Land Product Validation (LPV)

Chair: Dr. Joanne Nightingale (NASA)

Atmospheric Chemistry (AC)

Chair: Dr. Bojan Bojkov, ESA

Vice Chair: Dr. Jean-Christopher

Lambert, IASB/BIRA

CEOS Plenary (http://www.ceos.org/)

WGCV (http://www.ceos.org/index.php?option=com\_content&view=category&layout=blog&id=75&Itemid=116)

SAR Subgroup (http://www.ceos.org/index.php?option=com\_content&view=category&layout=blog&id=89&Itemid=129)







### CEOS WGCV SAR Subgroup (1)

- Mission: to foster high-quality synthetic aperture radar imagery from airborne and space borne SAR systems through precision calibration in radiometry, phase, and geometry, and validation of high level products.
- Objectives:
  - Act as a forum for international technical interchange on the evolving methodologies, techniques, and equipment of SAR data processing, calibration and validation,
  - To determine standard definitions and calibration-validation requirements for SAR systems.
  - To support changes in CEOS formats and user products as appropriate,
  - To facilitate international cooperative programs in the calibration and validation of SAR systems,
  - To educate the SAR community.





### CEOS WGCV SAR Subgroup (2)

#### Action Plan:

- Annual Workshop/Meeting
- Set up standard CAL/VAL sites inter-sensor comparison
- Calibration requirements and techniques for Polarimetry, Interferrometry, POLInSAR
- Support GEO Tasks
- Revamp WGCV SAR Subgroup Website
- Recent Annual Workshop/Meeting
  - 2009 Hosted by NASA/JPL in Pasadena, CA, USA
  - 2008 Hosted by DLR in Oberpfaffenhofen, Germany
  - 2007 7<sup>th</sup> Advanced SAR Workshop, hosted jointly by CSA and CEOS WGCV SAR Subgroup in Vancouver, Canada
  - 2006 Hosted by University of Edinburgh in Edinburgh, UK