



Committee on Earth Observation Satellites

WGISS

Dr Robert Woodcock – WGISS Chair

CSIRO

WGDisasters-16 Meeting

Virtual Meeting

21 – 23 September 2021





Chair, Robert Woodcock, CSIRO

Vice-Chair, Makoto Natsuisaka, JAXA

WGISS Principals

CAS/AOE: Guangyu Liu

CAS/RADI: Lizhe Wang

CSA: Paul Briand

CNES: Richard Moreno

CONAE: Homero Lozza

CSIRO: Robert Woodcock

DLR: Katrin Molch

EC: Astrid Koch

ESA: Mirko Albani

EUMETSAT: Michael Schick

GA: Simon Oliver

HSO: Gabor Remetey

INPE: Lubia Vinhas

ISRO: Nitant Dube

JAXA: Makoto Natsuisaka

NASA: Andrew Mitchell

NOAA: Kenneth Casey

NRSCC: Chuang Liu

ROSCOSMOS: Tamara Ganina

USGS: Thomas Sohre

UKSA: Esther Conway

WGISS Secretariat (Michelle Piegrass, CSIRO)

Data Preservation and Stewardship Interest Group

(Mirko Albani, ESA)

Discovery and Access - WGISS Connected Data Assets

System Level Team (Damiano Guerrucci, ESA)

- **IDN** (Michael Morahan, NASA)

- **FedEO** (Mirko Albani, ESA)

- **CWIC** (Minnie Wong, NASA)

- **OpenSearch II** (Olivier Barois, ESA)

Interoperability and Use Interest Group

(Robert Woodcock, CSIRO; Richard Moreno, CNES)

- **Future Data Architectures** (Robert Woodcock, CSIRO)

- **Carbon Portal** (Richard Baldwin, NOAA; Liping Di, NOAA)

- **Data Analytics Software and Tools** (Mirko Albani, ESA)

Technology Exploration Interest Group (Yousuke Ikehata, JAXA)

- **Jupyter Notebooks** (Esther Conway, NCEO-UKSA)

- White papers and best practices on long term data preservation.
- WGISS Discovery Services for both data and services
- EO Discovery metadata standards
- CEOS Earth Analytics Interoperability Lab
- Analysis in the Cloud
- CEOS ARD
- Investigations on cutting edge technologies
- Jupyter Notebooks initiatives
- Webinars



- Active conversation across CEOS
- OGC & STAC - EO standards
 - CEOS isn't a standards body though CEOS participants develop them and link with Industry Standards bodies
- CEOS ARD strategy
 - Industry engagement workshops have occurred
 - Industry is interested in seeing further work and use ARD (though opinions do vary)
 - Will no doubt continue to be addressed in ARD Strategy going forward
- Commercial Cloud Provider as data and analytics platforms
 - Space Agency engagement and cooperation
 - Linked to Public Dataset programs in providers normally
 - – common questions around sustainability of model
- CEOS EAIL – EASI powered and EASI is looking at commercial supply chains for users
 - Traditional business models are being challenged



- October 19-21, 2021
- Fully virtual
- Each session will be from 10:00 to 13:00 UTC, using GoToMeeting
- <http://ceos.org/meetings/wgiss-52/>
- **Tuesday, October 19:** Session on Data DISCOVERY and ACCESS, with focus on the utilization of interfaces for discovery (OpenSearch, STAC), discussion on data cloud access, data formats (COG, ZARR), and identity management with updates from NASA, USGS and ESA. A second session on TECHNOLOGY EXPLORATION will focus on Jupyter-Notebooks and on new technologies.
- **Wednesday, October 20:** Session on Data INTEROPERABILITY and USE, with focus on Cloud as an enabler for open science, cloud data formats, and progress on Future Data Architecture (FDA) elements.
- **Wednesday October 21:** Session on Data PRESERVATION and STEWARDSHIP, with a focus on data maturity and quality indicators, and on OAIS Interoperability Framework standards and pilot activities.