Committee on Earth Observation Satellites

WGISS

Dr Robert Woodcock – WGISS Chair
CSIRO

WGDisasters-16 Meeting
Virtual Meeting
21 – 23 September 2021
Key priorities for WGISS

**Chair**, Robert Woodcock, CSIRO
**Vice-Chair**, Makoto Natsuisaka, JAXA

**WGISS Principals**
- CAS/AOE: Guanyu Liu
- CAS/RAD: Lizhe Wang
- CSA: Paul Brind
- 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 Remetei
- INPE: Lubia Vinhas
- ISRO: Nitant Dube
- JAXA: Makoto Natsuisaka
- NASA: Andrew Mitchell
- NOAA: Kenneth Casey
- NRSC: Chuang Liu
- ROSCOSMOS: Tamara Ganina
- USGS: Thomas Sohre
- UKSA: Esther Conway

**WGISS Secretariat** (Michelle Piepgrass, 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
  o CEOS isn’t a standards body though CEOS participants develop them and link with Industry Standards bodies
• CEOS ARD strategy
  o Industry engagement workshops have occurred
  o Industry is interested in seeing further work and use ARD (though opinions do vary)
  o Will no doubt continue to be addressed in ARD Strategy going forward
• Commercial Cloud Provider as data and analytics platforms
  o Space Agency engagement and cooperation
  o 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
  o 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.