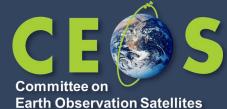
WGISS Chair Report



Tom Sohre, USGS Agenda Item A.4 WGISS / WGCV Joint Meeting 15 & 18 October 2024 Sioux Falls, South Dakota, USA

WGISS-54 / WGCV-51

4-7 October 2022, Tokyo, Japan Hosted by JAXA



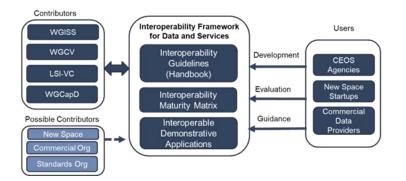
Areas of Collaboration:

- CEOS Cal/Val Portal Opportunities for linkage.
- Status of ARD Activities and linkage to WG activities.
- Data Quality Indicators and the Data Management and Stewardship Maturity Matrix.
- Interoperability Framework Concept.



2024 Joint Meeting Objectives

- CESS
- Interoperability ... Handbook Approach, Semantics/Vocabulary Factor, WGCV leadership for Quality Factor,
- Maturity Matrices ... WGCV Maturity Matrix, WGISS Data Mgmt. / Stewardship Maturity Matrix, Future Interoperability Maturity Matrix
- CEOS-ARD ... 2024 CEOS-ARD Strategy and support from WGISS / WGCV
- Tools and Services ... CEOS Analytics Lab, WGCV Cal/Val Portal, WGISS Connected Data Assets
- Commercial Sector Engagement strategy
- General Information Sharing and Collaboration



WGISS-57



4-7 March 2024, Sydney, Australia Hosted by GA and CSIRO



Areas of Discussion:

- Roadmap for Data Interoperability and Use Interest Group Activities
- Geospatial Standards (ISO, OGC, STAC)
- AI/ML Demonstrators Projects
- Jupyter Notebooks in Digital Earth and CAL
- CEOS Data Access including FedEO and IDN
- Collections Management Introduction
- Overview of Biodiversity Initiative
- Endorsement of Archive Technologies White Paper
- (45) Actions Identified (29-complete, 11-IP, 5-Open)

WGISS-58 Meeting Objectives



Review Accomplishments and Work in Progress

- Evolution of FedEO/IDN for implementing emerging interfaces (i.g. STAC)
- STAC EO Collection and Granule Discovery Best Practices
- Connected Data Assets Website Updates
- EO Data Collections Management and Governance White Paper
- Heritage Dataset Recovery (AVHRR)
- AI/ML White Paper
- Jupyter Notebooks Best Practice
- Interoperability Handbook Version 2.0

Working Group on Information Systems and Services (WGISS) promotes collaboration in the development of systems and services that manage and supply Earth observation data:

To enable Earth observation data and information to be more **accessible and usable** to both data providers and data users world-wide through international coordination.

To foster **easier exchange** of Earth observation and related data and information to meet the requirements of users and data providers.

To foster the development of **best practices** and encourage the development of **interoperable services** that exploit space-borne Earth observation data.

To enhance the **complementarity, interoperability and standardization** of Earth observation data and information management and services with other types of geospatial data such as in situ data

PRESERVE AND KNOW THE PAST

UNDERSTAND THE PRESENT

SHAPE AND ENABLE THE FUTURE

WGISS/WGCV Joint Meeting, 15 & 18 October 2024

WGISS-58 Meeting Objectives Cont.

Develop Vision for Ongoing Activities

- Efficient and Effective Communications w/ Stakeholders (Website, Social Media, Whitepapers, Best Practices)
- Opportunities for collaboration: CEOS WG's, GEO, Commercial Sector, Standards bodies
- Challenges and Best Practices Managing Data in Cloud
- Authentication and Authorization approaches
- Data compression algorithms
- Traceability and provenance
- Technology Exploration objectives

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WGISS Chair Observations



- Communication and Collaboration is key to our success.
- Interoperability will not occur in isolation; It will require collaboration, change, and compromise.
- Our stakeholders are being challenged by rapidly increasing EO data volumes.
- Technology is constantly evolving, and this rapid evolution can be challenging to keep up with.
- We learn from each other's successes (and challenges) ... sharing is important.
- Many of our activities are not "done" ... we evolve as we learn more.
- It can be valuable to incorporate lessons learned from non-CEOS organizations (commercial engagement).
 - As a best effort organization, it is necessary to be strategic and efficient in our activities

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WGISS/WGCV Joint Meeting, 15 & 18 October 2024

WGISS Organizational Structure

AEM: Adrian Guzman CAS/AIR: Ziyang Li CAS/NRSCC: Chuang Liu CNES: Pierre-Marie Brunet CONAE: Homero Lozza CSA: Paul Briand CSIRO: Matt Paget DLR: Katrin Molch EC: Daniel Quintart ESA: Mirko Albani EUMETSAT: Michael Schick GA: Simon Oliver GISTDA: Panu Srestasathier INPE: Lubia Vin ISRO: Nitant Dube JAXA: Makoto Natsu Jaka NASA: Katie Baynes NOAA: Kenneth Casey NSO: Raymond Sluiter ROSCOSMOS: Tamara Ganina **UKSA: Michelle Odgers** USGS: Tom Sohre VSNC: Vu Anh Tuân

WGISS

Principals

Chair Tom Sohre, USGS Vice-Chair Nitant Dube, ISRO Secretariat Libby Rose, Symbios for USGS

Data Preservation and Stewardship

eroperal lity and Use Interest Group: Nitant Dube, ISRO

nterest Group: Mirko Albani, ESA

Data Discovery and Access Interest Group: Damiano Guerrucci, ESA

- IDN Michael Morahan, NASA
- FedEO Damiano Guerrucci, ESA
- CWIC Minnie Wong, NASA

Technology Exploration Interest Group: Yousuke Ikehata, JAXA