

Pecora 22 Workshop: Envisioning the Future of International Earth Observations Collaboration Description

Monday, October 24, 2022
8:30 am – 5:00 pm
Hilton City Center, Denver, Colorado
Penrose Ballroom 1

Objective: Participants in this workshop will share information and gain knowledge *to advance international collaborative opportunities* through *discussion* of the following topics:

- Enhancing International Earth observation (EO) mission and data partnerships - international and commercial - to better serve users of EO satellite data, products, and services
- Mutually supporting agency policies and systems to assure “fitness for purpose” of EO data, compatibility/interoperability, and large-scale Earth Observation (EO) data archiving, sharing and use
- Opportunities to “bring the science to the data”, and systems for providing next-generation information and services to the public
- Advancing gender and racial equality in EO engineering, science, and applications, and extending the benefits of EO to traditionally underserved communities

Target Audience: The workshop will be geared toward managerial staff and technical experts from the following Earth-observing organizations: Government Agencies, Commercial EO data and service providers, Cloud Service Providers, Non-Governmental Organizations, and International Organizations and Coordination Groups.

Format: Speakers/panelists are invited to provide five-minute “lightning talks” with two PowerPoint slides per speaker (one title and speaker/organization name slide, plus one content slide) forming the basis for subsequent interactive discussions with a panel moderator and audience members. Presentations are not intended to be one-way reports, but rather invitations to structured dialogue and consensus-building on key opportunities and challenges faced by our international Earth observations community.

Results: Workshop leaders will summarize the key issues and recommendations for international collaboration identified by workshop participants, to report out during the Pecora Symposium later in the week.

Workshop Contact: Nadia Naji, USGS National Land Imaging Program, nnaji@usgs.gov

Pecora 22 Workshop: Envisioning the Future of International Earth Observations Collaboration Agenda

8:30 am – Welcoming, Workshop Overview, and Guidance to Participants

Speaker: Tim Stryker (U.S. Geological Survey)

8:40 am – Addressing Global Land Remote Sensing User Needs with Global Collaboration

- User Needs Assessment Processes
 - Speakers: Zhuoting Wu (U.S. Geological Survey) & Alan Belward (Joint Research Centre-European Commission)
- Advancing Interoperability
 - Speaker: Barbara Ryan (World Geospatial Industry Council)
- Developing a Common Land Imaging Architecture: Principles and Implementation Approaches
 - Speaker: Tim Stryker (U.S. Geological Survey)

TRACK 1: INTERNATIONAL EO COLLABORATION TO ADVANCE SOCIETAL BENEFITS (PROGRAMMATIC FOCUS)

TRACK 2: MAXIMIZING UTILITY AND GLOBAL ACCESS OF SPACE-BASED EO (TECHNICAL FOCUS)

9:30am – Session A

1A: Partnering Strategies for a Common Land Imaging Architecture – Multilateral and Bilateral Approaches

- Moderator: Gunter Schreier (German Aerospace Center)
- Speakers:
 - Simon Jutz (European Space Agency): *Copernicus/USGS/Land Imaging Partnership*
 - Tim Newman (U.S. Geological Survey): *Copernicus-EC/ESA, DLR, GA, and ISRO Land Imaging Partnerships*
 - Steve Labahn (U.S. Geological Survey): *CEOS Land Surface Imaging Virtual Constellation*
 - Adam Lewis (Geoscience Australia): *Digital Earth Africa*

2A: Implementing Analysis Ready Data (ARD) – Common Approaches, Predictability, and Improving EO Data Interoperability

- Moderator: Chris Barnes (U.S. Geological Survey)
- Speakers:
 - Ignacio Zuleta (Satellogic USA, Inc): *Commercial Engagement in ARD*
 - Chris Barnes (U.S. Geological Survey): *CEOS Analysis-Ready Data Oversight Group*
 - Brian Killough (NASA): *Open Data Cube*
 - *Additional Speaker & Topic TBD*

10:20 am – Morning Break #1

10:40 am – Session B

1B: Public-Private Partnerships for EO Satellite Data

- Moderator: Sylvia Wilson (U.S. Geological Survey)
- Speakers:
 - Simon Jutz (European Space Agency): *New Space in Copernicus*
 - Gunter Schreier (German Aerospace Center): *DESI & EnMAP, New opportunities in Hyperspectral EO*
 - Greg Snyder (U.S. Geological Survey): *Title TBD*
 - Shin-ichi Sobue (Japan Aerospace Exploration Agency): *Cloud based data and information service with ALOS/ALOS-2 ARD*
 - Ignacio Zuleta (Satellogic USA, Inc): *Title TBD*

2B: Ensuring Quality Global EO Data – Calibration/validation, uncertainty/traceability, harmonization

- Moderator: Esad Micijevic (U.S. Geological Survey)
- Speakers:
 - Cody Anderson (U.S. Geological Survey-Earth Resources Observation and Science): *Cal/Val Center of Excellence (ECCOE)*
 - Alan Belward (Joint Research Centre-European Commission): *Title TBD*
 - Pontus Olofsson (NASA): *Accuracy of EO data products*

11:30 am – Morning Break #2

11:50 am – Plenary Discussion #1 (Summary of Findings from 1A, 2A, 1B, and 2B)

12:40 pm – Lunch (on your own)

2:00 pm – Session C

1C: Advancing environmental and climate justice, extending the benefits of remote sensing to traditionally underserved communities, and advancing gender and racial equality in EO

- Moderator: Raha Hakimdabar (Ball Aerospace)
- Speakers:
 - Janet Nackoney (United States Agency for International Development): *USAID Pilot with WRI for Global Forest Watch, Community Engagement*
 - Africa Flores (NASA-SERVIR): *SERVIR in Central America*
 - Morgan Crowley (Nature Canada): *Title TBD*
 - Maree Wilson (Geoscience Australia): *Title TBD*

2C: Improving Global EO Data Access

- Moderator: Simon Jutz (European Space Agency)
- Speakers:
 - Shin-ichi Sobue (Japan Aerospace Exploration Agency): *Improving Global EO Data Access- JAXA's Open and Free Data*
 - Gunter Schreier (German Aerospace Center): *Big Data for global science*
 - Brian Killough (NASA): *NASA LARC-D2*
 - Alison Rose (Geoscience Australia): *DigitalEarth Australia*
 - Tom Maersperger (U.S. Geological Survey): *Landsat Collection 2 in the Cloud*

3:00 pm – Afternoon Break

3:15 pm – Plenary Discussion #2 (Summary of Findings from 1C and 2C)

3:45 pm – Preparation for Plenary Sessions & Documentation of Consensus Recommendations for Report out to Pecora 22 (Plenary #1 and Plenary #2 Wrap-Ups and any final consensus findings)

4:45 pm – Concluding Remarks

5:00 pm – Adjourn

6:00 pm – No-host Social Event (*LOCATION TBD*)