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**CEOS WGISS-55 Agenda**

**April 18-20 2023; all times are Argentina Standard Time**

**Hosted by Comisión Nacional de Actividades Espaciales (CONAE)**

**In Córdoba, Argentina**

**Version 1.0 Updated April 17, 2023**

**\*Indicates remote presentation**

# Monday, April 17, 2023

## 17:00 WGISS Chair Team Meeting at NH Hotel Panorama

17:00 Meeting Goals Discussion *Chair, Vice-chair*

## 17:40 Adjourn

## 18:00 WGISS Exec Pre-meeting at NH Hotel Panorama

18:00 Final Review of the Agenda *WGISS Exec Team*

18:30 Meeting Logistics *WGISS Exec Team*

## 19:00 WGISS Non-hosted Dinner TBD; All WGISS-55 participants and guests

# Tuesday, April 18, 2023

## 08:00 Shuttle to CONAE, gather at NH Panorama Hotel

**WebEx:** <https://ceos.my.webex.com/ceos.my/j.php?MTID=me51888acb11efd74d5124c8a22d0a271> password will be sent to registered participants.

## 09:00 Convene at CONAE Room TBD

#### WGISS PLENARY, Part 1

09:00 Welcome from CONAE *Raúl Kulichevsky (CONAE)*

09:15 Logistics *Homero Lozza (CONAE)*

09:20 Opening Remarks *Makoto Natsuisaka (JAXA)*

 Introductions, including remote participants

09:30 WGISS Chair Report *Makoto Natsuisaka (JAXA)*

09:45 CEOS Executive Officer Report *Marie-Claire Greening (CEO)*

10:00 Discussion of CEOS Work Plan Deliverables for WGISS *All*

## 10:15 Break

#### CEOS Interoperability Framework

10:30 Session Objectives *Makoto Natsuisaka (JAXA)*

10:40 Introduction to the CEOS Interoperability Framework *Tom Sohre (USGS)*

11:00 Professional Open-Source Framework for Earth System *Thomas Huang (JPL for NASA)*

 Digital Twins and Applications

11:40 CEOS Systems Engineering Office Cloud Use Strategy *David Borges (NASA)*

## 12:00 Lunch

13:00 Discussion on the Vision, Outcomes, Actions, Next Steps

#### Technology Exploration

14:00 Session Objectives *Yosuke Ikehata (JAXA)*

 **Jupyter Notebooks**

14:10 Status of Jupyter Notebooks Best Practice *Esther Conway(UKRI/STFC)*

14:20 Discussion *All*

 **AI/ML**

14:25 Proposal for AI/ML Survey in WGISS *Yosuke Ikehata (JAXA)*

## 14:50 Break

15:10 NOAA Steps Toward the Geoverse *Ryan Berkheimer (NOAA)\**

15:35 PML Work *David Moffat(PML)\**

16:00 MLHub and AI/ML in CMR *Valerie Dixon (NASA),*

 *Michael Morahan (NASA)*

 **Federation**

16:25 STAC Activity *Yves Coene (Spacebel for ESA)*

16:40 Discussion *All*

16:50 Outcomes, Actions, Next Steps *Yosuke Ikehata(JAXA)*

## 17:00 Adjourn

## 17:30 Ice-breaker Reception

## 18:45 Shuttle arrival at NH Panorama Hotel

# Wednesday, April 19, 2023

## 08:00 Shuttle to CONAE, gather at NH Panorama Hotel

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## 09:00 Convene at CONAE Room TBD

**WGISS-WGDisasters Joint Symposium**

09:00 Introduction of joint session and round table introductions (including remote) *Hélène de Boissezon* *(CNES)*

09:10 Introduction to CONAE *Laura Frulla (CONAE)*

09:25 Overview of WGISS Activities *Makoto Natsuisaka (JAXA)*

09:40 Overview of WGDisasters Activities *Hélène de Boissezon* *(CNES)*

09:55 Presentation of WGISS AI/ML White Paper *Yosuke Ikehata (JAXA)*

10:10 Presentation of WG Disasters Planned Use Case on ML and the Wildfire Sector *Alan Cantin (NRCan),*

 *David Borges (NASA)*

## 10:20 Group Photo of remote participants

## 10:20 Break

10:35 General Discussion Around Use of ML for EO Analysis and Suggestions *All*

 for Possible Joint Activity

11:00 Service Discovery Best Practice Activity *Yves Coene (Spacebel for ESA)*

11:15 Use of EAIL in Flood Pilot and Other Possible Synergies *Marcelo Uriburu (CONAE)*

11:25 General Discussion and Joint Session Wrap-up *All*

11:35 Agency Presentations (3 to 5 minutes each) *Interested agencies*

USGS Emergency Operations Activities *Tom Sohre (USGS)*

ROSCOSMOS *Andrey Kuklin (ROSCOSMOS)*

## 12:00 Lunch

## 12:40 Group Photo @TBD (both Working Groups)

#### Data DISCOVERY and ACCESS

13:10 Session Objectives *Damiano Guerrucci (ESA)\**

13:20 Data Access Authorisation - Toward Federated Access

 EGI (OpenEO) – Federated Authorisation *Valeria Ardizzone (EGI for ESA)\**

 NASA - Multifactor Authorisation *Valerie Dixon (NASA)\**

14:00 GEO-ZARR WG led by NASA *Christophe Noel (Spacebel for ESA)\**

14:20 ISO TC211 *Liping Di (NASA)\**

14:35 IDN and CWIC Update *Michael Morahan (NASA)*

14:50 FedEO Update *Yves Coene (Spacebel for ESA)*

## 15:00 Break

15:20 Metrics Best Practice on Cloud (NASA Implementation) *Doug Newman (NASA), Min Wong (NASA)*

15:40 Service Discovery:

 OSS Tools Metadata Ingestion Use Cases – FedEO/ IDN *Yves Coene (Spacebel for ESA),*

 *Michael Morahan (NASA)*

16:00 Outcomes, Actions, Next Steps *Damiano Guerrucci (ESA)\**

**Agency and Liaison Reports**

16:30 ESA *Mirko Albani (ESA)*

16:40 NOAA *Ken Casey (NOAA)*

16:50 UKSA *Esther Conway (UKSA)*

## 17:00 Adjourn

## 17:00 Shuttle to NH Panorama Hotel

## 20:00 Hosted Dinner

# Thursday, April 20, 2023

## 08:00 Shuttle to CONAE, gather at Panorama Hotel

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## 09:00 Convene at CONAE Room TBD

**Agency and Liaison Reports, continued**

09:00 ISRO *Sai Kalpana Tanguturu (ISRO)\**

#### Data PRESERVATION and STEWARDSHIP

09:10 Session Objectives *Mirko Albani (ESA)*

09:20 Archive Technologies Evolution White Paper *Daniele* Iozzino *(RHEA for ESA)\**

09:40 DSIG Best Practices Refreshment *Iolanda Maggio (RHEA for ESA)*

10:10 Data Publication, Preservation and Knowledge Hub *Liu Chuang (NRSCC)\**

## 10:25 Break

10:40 Copernicus Sentinels Ground Segment Architecture *Razvan Cosac (ESA)\**

11:05 Session on AVHRR Data Archives

 AVHRR Data: European Coverage *Mirko Albani (ESA),*

 *S. Wunderle (UniBern)\**

 AVHRR Data: North American Coverage *Ken Casey (NOAA)*

 AVHRR Data Recovery Project *Mirko Albani (ESA)*

## 12:00 Lunch

#### Data PRESERVATION and STEWARDSHIP, continued

13:00 Introduction of DOIs to the JAXA G-Portal Products *Yosuke Ikehata (JAXA)*

13:10 Data Replicas (Authenticity and Integrity) in the Cloud Use Case *Mirko Albani (ESA)*

13:30 Authenticating Data Replicas *Doug Newman (NASA),*

 *Michael Morahan (NASA)*

13:45 Outcomes, Actions, Next Steps *Mirko Albani (ESA)*

**WGISS PLENARY, Part 2**

14:00 WGISS Strategic and Interoperability Framework Discussion *Makoto Natsuisaka (JAXA)*

## 15:00 Break

15:20 Future Meetings *Tom Sohre (USGS)*

15:30 WGISS Vice Chair Solicitation, and Organizational Matters *Makoto Natsuisaka (JAXA)*

15:45 Summary of Meeting Outcomes, Next Steps *Tom Sohre (USGS)*

16:30 Review of WGISS Actions *Michelle Piepgrass* *(JAXA)*

16:45 Concluding Discussion and Remarks *Makoto Natsuisaka (JAXA)*

## 17:00 Adjourn

## 17:00 Shuttle to Panorama Hotel

# Friday, April 21, 2023

## 09:00 Shuttle to CONAE, gather at NH Panorama Hotel

## 10:00 Facility Tour at CONAE

## 12:00 Lunch

## 15:00 Adjourn

## 16:00 Arrive at NH Panorama Hotel