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**CEOS WGISS-54, Agenda**

**October 3 to 7, 2022; all times are Japan Standard Time**

**Hosted by Japan Aerospace Exploration Agency (JAXA)**

**at The International House of Japan, Tokyo, Japan**

**Version 1.0 Updated October, 2022**

**\*Indicates remote presentation**

# Friday, September 30, 2022

## 10:00 WGISS Chair Team Meeting

**@ Meeting Room in The International House of Japan**

10:00 Review Facility Setup and Connectivity

10:30 WGISS Chair Strategy Meeting

 Discussion Topics:

* Review WGISS Organizational Structure
* Review WGISS ToR
* Rebuild Data Interoperability and Use Interest Group
* WGISS Contributions to the CEOS Interoperability Framework and CEOS Engagement with Standards Organisations initiatives
* WGISS Vice-Chair Solicitation
* Date for WGISS-55
* Location of WGISS-56

## 17:00 Adjourn

# Monday, October 3, 2022

**@ Meeting Room in The International House of Japan**

## 16:00 WGISS Exec Pre-meeting

16:00 Final Review for the Agenda

16:30 Logistics

## 17:00 WGISS Non-hosted Icebreaker

# Tuesday, October 4, 2022

**@ Meeting Rooms 403 & 404 in The International House of Japan**

**WebEx:** <https://ceos.my.webex.com/ceos.my/j.php?MTID=mdcaf70aaa28ea2fce44327774cef511a>

## 09:30 Convene

#### WGISS PLENARY, Part 1

09:30 Opening Remarks and Logistics *Makoto Natsuisaka (JAXA)*

09:45 Welcome from the Director of JAXA Earth Observation Research Center *Riko Oki (JAXA)*

10:00 WGISS Chair Report *Makoto Natsuisaka (JAXA)*

10:20 CEOS Systems Engineering Office Report *Brian Killough (NASA)\**

10:40 ISO TC211 Liaison Report *Liping Di (GMU for NASA) \**

## 11:00 Break

#### Data PRESERVATION and STEWARDSHIP

11:20 Session Objectives *Mirko Albani (ESA)*

11:30 Archive Technology and Future Trends

11:30 NOAA *Nancy Ritchey (NOAA)\*,*

 *Kenneth Casey (NOAA)\**

11:45 WGISS DSIG Best Practices Refreshment *Iolanda Maggio (RHEA for ESA)*

12:00 AVHRR Recovery Activity *Mirko Albani (ESA)*

12:15 FAIR Dataset Quality Information Guidelines *Ivana Ivanova (Curtin University for NOAA)\**

## 12:30 Lunch

#### WGISS PLENARY, Part 1, continued

13:30 CEOS Executive Officer Report *Marie-Claire Greening (CEO)\**

#### Data PRESERVATION and STEWARDSHIP, continued

13:50 Cooperation with CGMS *Mirko Albani (ESA)*

14:10 Archive Technology and Future Trends *Mirko Albani (ESA)*

14:15 USGS *Tom Sohre (USGS)*

14:30 NASA *Valerie Dixon (NASA)*

14:45 CNES *Richard Moreno (CNES)*

15:00 DLR *Katrin Molch (DLR)\**

15:15 ESA *Daniele Iozzino (RHEA for ESA)\**

## 15:30 Break

#### Data DISCOVERY and ACCESS

15:50 Session Objectives *Damiano Guerrucci (ESA)\**

16:00 IDN Update and CWIC Update *Michael Morahan (NASA)*

16:15 FedEO update *Yves Coene (Spacebel for ESA)\**

16:30 OGC testbed-18: Secure, Asynchronous Catalogs *Yves Coene (Spacebel for ESA)\*,*

 *Liping Di (GMU for NASA) \**

16:55 Service Discovery Best Practices *Yves Coene (Spacebel for ESA)\**

#### WGISS PLENARY, Part 1, continued

17:15 GEO Secretariat Report *Paola de Salvo (GEOSEC)\*,*

 *Laurent Durieux (GEOSEC)\**

## 17:30 Adjourn

# Wednesday, October 5, 2022

**@ Meeting Rooms 403 & 404 in The International House of Japan**

**WebEx:** <https://ceos.my.webex.com/ceos.my/j.php?MTID=mdcaf70aaa28ea2fce44327774cef511a>

## 09:30 Convene

#### Technology Exploration

09:30 Jupyter Notebooks: Session Objectives *Yousuke Ikehata (JAXA)*

09:40 Update on Jupyter Notebook Day *Esther Conway (UKSA)*

10:00 Best Practice Document *Esther Conway (UKSA)*

10:20 Current Status WGCapD *Kenton Ross (NASA)\**

## 10:40 Break

**Agency Reports**

11:00 ISRO *Nitant Dube (ISRO)\**

11:10 JAXA *Yousuke Ikehata (JAXA)*

11:20 USGS *Tom Sohre (USGS)*

## 11:30 Lunch

**WGISS-WGCV Joint Symposium**

**@ Lecture Hall in The International House of Japan**

## 13:00 Group Photo at the garden in the International House of Japan

13:20 Opening Remarks *Akihiko Kuze (JAXA)*

13:30 WGCV Overview *Akihiko Kuze (JAXA)*

13:40 WGISS Overview *Makoto Natsuisaka (JAXA)*

13:50 ESA EO Portal, CEOS CAL/VAL Portal, CEOS MIM Database: *Paolo Castracane (ESA),*

 Status, Synergies and Improvements *Matthew Steventon (Symbios for ESA)\*,*

 *George Dyke (Symbios for ESA)\**

14:20     Status of ARD Activities *Matthew Steventon (Symbios for ESA)\*,*

 *Ferran Gascon (ESA for the ARD*

 *Oversight Group)*

## 14:50 Break

15:10     Data Quality Assessment and Indicators, and DMSMM Maturity Matrix

 Data Quality Indicators *Philippe Goryl (ESA)*

 Data Management and Stewardship Maturity Matrix: *Iolanda Maggio (RHEA for ESA)*

 Introduction, Background and Definitions

 AVHRR DMSMM Use Cases and Discussion *Paolo Castracane (RHEA for ESA)*

15:50 CEOS Interoperability Framework Initiative *Peter Strobl (JRC),*

 *Matthew Steventon (Symbios for ESA)\**

16:20     CEOS Common Online Dictionary: Progress with Joint Activity *Peter Strobl (JRC), Katrin Molch (DLR)\**

 between WGISS and WGCV

17:00     Summary on Joint Interaction; Additional Opportunities; *Akihiko Kuze (JAXA),*

 Joint Recommendations to CEOS and GEO; Action items *Makoto Natsuisaka (JAXA)*

17:20 Greetings from the Senior Chief Officer of Earth Observation Missions *Takeshi Hirabayashi (JAXA)*

## 17:30 Group Photo with remote participants

## 17:35 Adjourn

## 18:15 Ice-breaker at Juban Stand

# Thursday, October 6, 2022

**@ Meeting Rooms 403 & 404 in The International House of Japan**

**WebEx:** <https://ceos.my.webex.com/ceos.my/j.php?MTID=mdcaf70aaa28ea2fce44327774cef511a>

## 09:30 Convene

**Data INTEROPERABILITY and USE**

09:30 EO Interoperability for Services *Andrew Mitchell (NASA)*

09:40 Session on EAIL: Use-cases and Vision

09:40 COAST *Paul DiGiacomo (NOAA)\*,*

 *Merrie Beth Neely (NOAA)\**

10:00 CSIRO *Jonathan Hodge (CSIRO)\**

#### Technology Exploration, Continued

10:20 Machine Learning, Data Learning, Artificial Intelligence: Session Objectives *Yousuke Ikehata (JAXA)*

10:30 NOAA Center for Artificial Intelligence *Robert Redmon (NOAA*)\*

10:50 Enhancing Earth Observation Applications Using AI/ML Techniques *Nitant Dube (ISRO)\**

## 11:10 Break

11:30 Machine Learning and Graph *Doug Newman (NASA)*

12:00 USGS AI/ML Use Cases  *Tom Sohre (USGS)*

12:15 New AI/ML Keywords Introduced to GCMD *Valerie Dixon (NASA)*

## 12:30 Lunch

13:30 Introducing White Paper for AI/ML Outline. *Yousuke Ikehata (JAXA)*

13:50 Discussion, Conclusions *Yousuke Ikehata (JAXA)*

**Agency Reports**

14:10 DLR *Katrin Molch (DLR)\**

14:20 NASA *Andrew Mitchell (NASA)*

#### Technology Exploration, Continued

14:30 Federation *Karim Ramage (CNRS)*\*,

 *Richard Moreno (CNES)*

## 15:00 Break

**Data INTEROPERABILITY and USE, continued**

15:20 Federated Discovery using STAC *Doug Newman (NASA)*,

 *Yves Coene (ESA, Spacebel)\**

15:40 Access Patterns and STAC Implementation at Bhoonidhi *T. Sai Kalpana (ISRO)\*,*

 *K. Radha Krishna (ISRO)\**

16:00 STAC Best Practice *Doug Newman (NASA)*

16:20 Discussion *Makoto Natsuisaka (JAXA),*

 *Tom Sohre (USGS)*

**WGISS PLENARY, Part 2**

16:30 Future Meetings *Tom Sohre (USGS)*

16:40 WGISS Vice Chair Solicitation *Makoto Natsuisaka (JAXA)*

16:50 WGISS Summary and Discussion *Makoto Natsuisaka (JAXA)*

17:10 Review of WGISS Actions *Michelle Piepgrass* *(JAXA)*

17:20 Concluding Discussion and Remarks *Makoto Natsuisaka (JAXA)*

## 17:30 Adjourn

# Friday, October 7, 2022

## 11:00 Facility Tour - Tsukuba Space Center

11:00 Introduction of Tsukuba Space Center

## 12:00 Lunch

13:00 Site Tour

## 16:00 Adjourn