

## CEOS SEC 214 Report – July 2016

**Entity:** WGDIsasters

**Prepared By:** Stéphane Chalifoux (Canadian Space Agency) and Simona Zoffoli (Italian Space Agency)

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### **Updates on issues raised during the last CEOS SEC teleconference**

**(Dot points)**

- None

### **Issues requiring discussion/decision during current CEOS SEC teleconference**

**(Dot points)**

- None

### **Other highlights, activities, actions, projects, collaborations (for reference only)**

**(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)**

- Pilots (floods, volcanoes and seismic risks) including the activities related to the Supersites are progressing well with regular provision of satellite data. No issue to report.
- GSNL: Greek Supersite proposal still in evaluation by Data Coordination Team (DCT). Several Space Agencies already completed their evaluation.
- Landslide: NASA hosted a Landslide Pilot meeting at Goddard the 14, 15 and 16<sup>th</sup> of June.
- Volcano: Inflation was discovered at Masaya volcano, Nicaragua, and interpretations were communicated to INETER (Instituto Nicaragüense de Estudios Territoriales) via the USGS Volcano Disaster Assistance Program; InSAR data of Wolf volcano, Galapagos, revealed surprising co-eruptive deformation, but little pre-eruptive change.
- DRM Glossy Handbook: CEOS Pilot Leads on DRM Glossy Handbook Teleconference held on June 30<sup>th</sup>. The document is progressing well.
- CEOS Website: Reports and presentations of pilots and RO from our latest plenary meeting in March are available to the public.
- CEOS Website: The first Story is now on line ‘Satellite Data for Understanding Earthquake Impacts’: Please visit: <http://ceos.org/home-2/satellite-data-play-critical-role-in-understanding-how-the-earth-moves/>
- Under the Recovery Observatory (RO), the 2<sup>nd</sup> teleconference of a Sub-group on Data Licensing did take place and the group is working on developing a generic End User License Agreement.
- Volcano: A teleconference on June 23 focused on how to make the pilot work sustainable beyond the 2017 end of the pilot.

### **Upcoming meetings or events (for reference only)**

**(Dot points, e.g. meetings, conferences of relevance, visits)**

- WGDIsasters Meeting # 6: 6 to 8 September 2016, at CVO (Cascades Volcano Observatory, Vancouver, WA, USA) - hosted by USGS

### **Attachments**

(e.g. pictures, figures, graphs, links – for use in overall CEOS reporting and as website resources etc.)

## CEOS SEC 214 Report – July 2016

**Entity:** WGISS (Working Group on Information System and Services)

**Prepared By:** Andrew Mitchell – Chair (NASA) / Mirko Albani Vice Chair (ESA)

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### Updates on issues raised during the last CEOS SEC teleconference

- None

### Issues requiring discussion/decision during current CEOS SEC teleconference

- None

### Other highlights, activities, actions, projects, collaborations (for reference only)

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- As reported last month, the CEOS OpenSearch Best Practice version 1.1 was released. To accompany this release, we are now **reworking the CEOS OpenSearch Developer Guide**. A preliminary version is going to be shared with the OpenSearch working group in July. Also **investigating the validity of developing a common ‘interoperable’ data format (i.e JSON)**.
- Recent discussions with ISRO and Bureau of Meteorology of Australia are leading to additional datasets being added to the IDN (International Network).
- **Reviewing the metadata models of the IDN, CGMS and WMO** and preparing a discussion for the WGISS 42 meeting on common metadata that improves discovery and search results when searching across multiple catalogues.
  - IDN – Directory Interchange Format (DIF)
  - CGMS - Satellite Data Essential Information for WIS Discovery Metadata
  - WMO - WIGOS Metadata Standard
- Assigned as **lead author (along with ESA)** on section 3 and 4 of the **FDA Study Report**
  - **Section 3 - The challenge of changing user expectations and increasing EO data volume, variety and velocity on EO systems architecture**
  - **Section 4 - The Future of EO Data Architectures**
- Actively preparing for the WGISS Cloud Computing Workshop held on September 20<sup>th</sup> at ESRIN. So far we have confirmed speakers from JAXA, ESA, CNES, ISRO, NOAA and NASA. More speakers are welcome!

### Upcoming meetings or events (for reference only)

- WGISS 42<sup>nd</sup> meeting - September 19<sup>th</sup> to the 23<sup>rd</sup> – Frascati, IT
    - **Cloud Computing Workshop on September 20<sup>th</sup>**
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### Attachments

(e.g. pictures, figures, graphs, links – for use in overall CEOS reporting and as website resources etc.)

## CEOS SEC 214 Report – July 2016

**Entity:** WGCV

**Prepared By:** Albrecht von Bargaen (DLR)

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### **Updates on issues raised during the last CEOS SEC teleconference**

#### **(Dot points)**

- Vice-Chair nomination:  
As committed during SEC-213, CEOS Chair, CEO Chair, and WGCV Chair had a telecom to discuss the way forward. Possible opportunities had been identified and discussed; the CEOS Chair is currently active in supporting the search.
- ToRs finalization: The ToRs will be presented at SIT-WS for discussion and shall be then presented at CEOS plenary for discussion.

### **Issues requiring discussion/decision during current CEOS SEC teleconference**

#### **(Dot points)**

- none

### **Other highlights, activities, actions, projects, collaborations (for reference only)**

#### **(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)**

- Carbon action item analysis under implementation and the PoC after hand-over of the Chair position in November will be the current Chair.
- Preparation of upcoming plenary meeting; Registration is open (until July 30<sup>th</sup>) and around 15 people had been registered in this early stage of registration.
- CEOS WGCV secretariat develops concept update for WGCV website
- WGCV / GSICS: Chairs of both will prepare details to find fields of concrete cooperation aside combined meetings of several subgroups; probably a meeting aside the EUMETSAT conference after the first meeting had to be cancelled.
- SIT-team teleconference had been held during first week in July.
- Task team meeting during last week in June 2016 held at Goddard Space Flight Center (NASA): Atmospheric correction model comparison campaign has progressed very successful. 14 teams from several agencies and countries presented their Atmospheric correction models. Agreement about reference scenarios for inter-comparison had been agreed; the different teams will now carry out their modelling and the results will be compared from Northern hemisphere fall onwards until mid 2017 for finalization. This task is a very good example for the implementation of the task team approach.

### **Upcoming meetings or events (for reference only)**

#### **(Dot points, e.g. meetings, conferences of relevance, visits)**

- CEOS WGCV / MWSG meeting hosted by Chinese Academy of Science, Beijing, July 2016
- CEOS WGCV / IVOS meeting hosted by Chinese Academy of Science, Beijing, July 2016
- CEOS WGCV plenary hosted JAXA, Denki University Tokyo, 5-7 Sep 2016
- CEOS WGCV / SAR meeting hosted by JAXA, Denki University Tokyo, 7-9 Sep 2016

## CEOS SEC 214 Report – July 2016

Entity: CEO Team

Prepared By: CEO Team

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### Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- Flora Kerblat will present on the SDG information gathering template. Agencies are asked to kindly contribute as this will be an important communication resource for CEOS.
- **Action 213-06 can be closed.** The letter was sent to UN-GGIM regarding their request to review the Roadmap for the Global Geodetic Reference Frame for Sustainable Development.

### Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

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- A CEOS submission to a request for input into the *United States 2017 National Plan for Civil Earth Observations* has been drafted and circulated for SEC comment. Pending any final comments from SEC, it will be sent by the CEOS Chair following SEC-214.
- MBRSC have been advised that it will not be possible to consider their application this year as the SEC will not have sufficient time to consider their eligibility to apply due to their lack of answers to questions.

### Other highlights, activities, actions, projects, collaborations (for reference only)

(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)

- There has been no further progress in relation to potential membership of EUSATCEN. However, EUSATCEN are prima facie eligible, but will need to confirm they wish to apply in time for inclusion in the agenda.
- GEO GI-18 community planning for a Side Event on the SDGs during GEO XIII Plenary in St. Petersburg

### Upcoming meetings or events (for reference only)

(Dot points, e.g. meetings, conferences of relevance, visits)

- A side event will be held on the SDGs during the 6<sup>th</sup> Session of the UN GGIM (UN GGIM6), which will occur from 1-5 August 2016 at the United Nations Headquarters in New York. The Side Event is scheduled for Tuesday 2 August, from 2:00-3:45pm.

Refer to calendar for details.

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### Attachments

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## CEOS SEC 214 Report – July 2016

**Entity:** SEO

**Prepared By:** Brian Killough (NASA)

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### **Issues requiring discussion/decision during CEOS SEC teleconference**

- None

### **Updates on issues raised during the last CEOS SEC teleconference**

- None

### **Upcoming meetings or events**

- The SEO and CSIRO will travel to Colombia on August 30 to September 1 to meet with IDEAM (Institute of Hydrology, Meteorology and Environmental Studies) and researcher from the University of Andes. The meeting will be focused on advanced data cube work to support their forest and water management applications.

### **Other highlights, activities, actions, projects, collaborations**

(e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)

- Brian Killough presented a lunch seminar “Data Cubes: Helping Countries Improve Satellite Data Management” to the World Bank on July 13. This seminar was planned in replacement of the cancelled workshop. The World Bank continues to have high interest in the CEOS Data Cube and is exploring approaches to utilize this infrastructure to support global applications in regions where they have capacity building loans for developing countries.

## CEOS SEC 214 Report – July 2016

**Entity:** SDCG for GFOI

**Prepared by:** M. Steventon (SDCG SEC)

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### **Updates on issues raised during the last CEOS SEC teleconference**

- None.

### **Issues requiring discussion/decision during current CEOS SEC teleconference**

- None.

### **Other highlights, activities, actions, projects, collaborations (for reference only)**

- London briefing (6 Sep) and SDCG-10 (7-9 Sep) in Reading progressing as planned. Good participation is expected at the dedicated UK session at SDCG-10.
- Continuing discussions within GFOI around an end-to-end country demonstration, which would include implementation of the SDCG's Space Data Services and SEO developed tools (e.g. Data Cube).
- The Global Data Flows Study is coming to a conclusion. Feedback from countries and intermediaries has been received, and SDCG will bring provisional conclusions and recommendations to SIT Technical Workshop.
- SDCG members remain engaged in LSI-VC, with a number participating in the upcoming LSI-VC-2 meeting.

### **Upcoming meetings or events (for reference only)**

- SDCG-10: September 2016, U.K. (7-9 Sep, Reading), with a briefing to UK Govt agencies on GFOI in London on 6<sup>th</sup> Sep.
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### **Attachments**

More information at <http://ceos.org/sdcg> and [www.gfoi.org](http://www.gfoi.org).

## CEOS SEC 214 Report – July 2016

**Entity:** WSIST (Water Strategy Implementation Study Team)

**Prepared By:** Chu Ishida (JAXA)

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### **Updates on issues raised during the last CEOS SEC teleconference**

**(Dot points)**

- Search for a new leader of the extended WSIST continues
- I would like to coordinate with CEOS SEC to handle this Plenary action.

### **Issues requiring discussion/decision during current CEOS SEC teleconference**

**(Dot points)**

- None

### **Other highlights, activities, actions, projects, collaborations (for reference only)**

**(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)**

- 7<sup>th</sup> FS telecon was held on June 29.
  - Precipitation-soil moisture synergistic observation case study report was discussed.
  - Planning for the FS report preparation was discussed.
  - Disposal of other CEOS proposed actions for the GEOSS Water Strategy recommendations was discussed.
- Draft of the Precipitation-soil moisture observation synergy case study is being prepared. Draft will be made by the end of July (a month delay)
- For preparing the FS report, three topic telecon on evapotranspiration (ET), river run-off/surface water storage, and groundwater, are being held next week (July 12, 13 and 14), inviting external experts.

(Reference - WSIST work plan)

**Jan - Mar:** Collection of data and information on requirements, existing/future capabilities, relevant CEOS missions

**Apr - June :** Assessment of observations for the priority parameters  
Precipitation-soil moisture observation synergy case study

**Jul – Sep :** Study on synergistic observations and architecture

**Oct :** Preparation of report

**Nov :** Report at Plenary

### **Upcoming meetings or events (for reference only)**

**(Dot points, e.g. meetings, conferences of relevance, visits)**

- WSIST telecon#8 (being coordinated for last week of July)

### **Attachments**

(e.g. pictures, figures, graphs, links – for use in overall CEOS reporting and as website resources etc.)

None

## CEOS SEC 214 Report – July 2016

Entity: FDA-AHT

Prepared By: Thomas Cecere (USGS), Rob Woodcock (CSIRO)

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### Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

### Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- None

### Other highlights, activities, actions, projects, collaborations (for reference only)

(Dot points, e.g. outputs, new products, papers, technical reports, media, pipeline and new projects, interactions, project status changes, new opportunities)

- Stephen Ward is now assisting with teleconference and writing assignment follow-up. This includes chasing European and Chinese contributions to current activities
- Robert Woodcock has re-drafted all contributions to date into more coherent structure which has been reviewed and accepted by the contributors.
- Report writing teams have been re-organised to complete the new sections of the text with a full draft to be completed by July 31.
  - o Section 2 Current Trends – Brian Killough, Richard Moreno, Steven Labahn
  - o Section 3 Challenges – Andy, Mirko Albani, George Dyke, Robert Woodcock
  - o Section 4 Future Architecture – Andy, Mirko Albani, George Dyke, Robert Woodcock
  - o Section 5 Conclusions and Recommendation – Stephen Ward, Jono Ross
  - o Attachments Agency Input – compiled by Rob Woodcock
  - o Robert Woodcock will continue the role of over-arching editor, responsible for overall report coherency and consistency
- Full draft recommendations will be available end of July
- Proposed Timeline:
  - o July 31 – First draft of the report complete
  - o August 29 – Final draft of the report completed and provided to CEOS Principals, POCs, SEC teams, VCs, WGs and ad hoc teams for review prior to SIT
  - o September 12 – FDA AHT side meeting to fine tune and finalize report recommendations
  - o Circa October 15 – Final Report circulated in preparation for the Plenary

### Upcoming meetings or events (for reference only)

(Dot points, e.g. meetings, conferences of relevance, visits)

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### Attachments

(e.g. pictures, figures, graphs, links – for use in overall CEOS reporting and as website resources etc.)

## CEOS SEC 214 Report – July 2016

**Entity:** Ad Hoc Team NMA (Non-meteorological Applications for Next Generation Geostationary Satellites)

**Prepared By:** Ian Grant (ABOM), Thomas Schroeder (CSIRO), Satya Kalluri (NOAA), Kenneth Holmlund (EUMETSAT) – Co-Leads

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### Updates on issues raised during the last CEOS SEC teleconference

**(Dot points)**

- None.

### Issues requiring discussion/decision during current CEOS SEC teleconference

**(Dot points)**

- The following revised timeline for completion of the NMA Report is presented for information:
  - July Notification of the pending draft in August to be sent to WGs and VCs.
  - early August First end-to-end draft report (NMA team input only).
  - Circulate draft report to leads of CEOS WGs and VCs
  - 31 August Draft report (with input from CEOS subgroups)
  - 31 August Circulate draft recommendations among CEOS subgroups
  - 12 September NMA Side Meeting at SIT Technical Workshop (Oxford)
  - 30 September Draft recommendations circulated among CEOS agencies
  - 31 October NMA side meeting at CEOS Plenary
  - 1-2 November Report presented to CEOS Plenary

### Other highlights, activities, actions, projects, collaborations (for reference only)

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- After some good pre-meeting coordination to ensure clarity around purpose, a successful side event was held at CGMS-44, and the session was appreciated and welcomed by CGMS. Topics discussed included a review of the various programs in work, the importance of looking at the existing capabilities and activities, and consistency of products (e.g. algorithms, quality). At the end of the side meeting, there was good agreement on the way forward. The side meeting agreed this report was a starting point, and that with this information the way forward can be discussed.
- The report draft is being progressed, with good content on a number of sections. Per the timeline presented above, a revision will be shared with the CEOS WGs and VCs in early August for comment, as well as with the broader NMA team.

### Upcoming meetings or events (for reference only)

**(Dot points, e.g. meetings, conferences of relevance, visits)**

- The writing team will meet by telecon again 20<sup>th</sup> July, and likely again in August.
  - A SIT Technical Workshop side meeting is planned for the afternoon of Monday 12 September (1300 - 1600).
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### Attachments

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