

CEOS SEC Report

(two pages max.)

Entity: CEO

Prepared By: Steven Hosford (ESA/CNES)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

1. Status of CEOS Membership enquiries:

- **NIER** (S. Korea). CEOS membership request received 19/07 and distributed to CEOS-SEC. CEOS-SEC must decide on whether NIER is invited to Plenary on the assumption that membership (CEOS member) will be granted.
- **UAE-SA** (United Arab Emirates). CEOS membership request received 11/07 and distributed to CEOS-SEC. CEOS-SEC must decide on whether NIER is invited to Plenary on the assumption that membership (CEOS member) will be granted.
- **FAO** confirms that the Global Terrestrial Observing System GTOS no longer exists. We would propose to remove this Associate member when possible (probably following discussion at plenary)

2. Freshwater from Space Workshop. Workshop Programme Committee TC has taken place on 12th July.

- The dates and the venue for the workshop have now been finalised – 13th-15th November at IHE Delft
- Review and update the agenda
- The need for a second TC toward the end of August was identified to finalise the agenda and complete identifying the main workshop contributors and targeted workshop participants

3. CEO Search Committee. As agreed at CEOS-SEC-238, a short email describing a proposed approach to CEO recruitment was sent out to SEC on 5th July. No responses have been received as yet (22/07). Please provide your agency's comments on the approach ASAP.

Specifically, please inform SEC of whether your agency would be prepared to open an internal position as described in the

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- 1. ISPRS request for a CEOS representative.** The CEO was contacted on 19th July with a request from the ISPRS International Policy Advisory Committee (IPAC) to identify a CEOS representative for a Panel discussion at the ISPRS Mid Term Symposium to be held in Dehradun, India, on 20th -23rd November. The CEO responded suggesting three alternatives in order of preference: CEOS Chair, SIT Chair or CEO. A response is expected during SEC.

- 4. Review of CEOS email lists.** CEO and SIT Chair have been reviewing all CEOS email lists as managed by SEO. Several changes are proposed:
 - Someone will be assigned to maintain each list up-to-date. WG Chairs have received emails to confirm that they are responsible for their lists.
 - It is proposed to merge CEOS-Members-P (CEOS Member Principals list) and CEOS-Members-C (CEOS Member Contacts list) into one list CEOS-Members. Likewise for CEOS-Associates. These changes are proposed because we would never send a message only to principals (always copying contacts to ensure the message gets through). CEOS-SEC agreement in this change is requested.

Other highlights, activities, actions, projects, collaborations

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

Upcoming meetings or events

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

- “Satellite Data Interoperability Sprint” organised by Planet/Radiant Earth on 13th-15th August. CEO to provide perspective on Analysis Ready Data and approach promoted by LSI-VC (CARD4L)

CEOS SEC-239 Report

Entity: SIT Chair Team

Prepared By: Kerry Sawyer (NOAA)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- Action 237-01:
 - Still have not been able to confirm with Pascal Lecomte. Multiple emails sent. Did confirm that Jörg has agreed to be the Alternate to the GEO-C Steering Committee.
- Action 238-05:
 - Confirmed that Gilberto Câmara will NOT attend the SIT Technical Workshop but will attend the CEOS Plenary. Gilberto may be able to participate virtually. Steve Volz will contact Gilberto directly.

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- Key Points from 44th GEO Executive Committee (ExCom-44) will be shared with CEOS SEC by
- CEOS 2018 SIT Technical Workshop:
 - Draft agenda shared with SEC on 25 July with request to provide comments by 3 August so that v1.0 can be shared with broader CEOS community mid-August. Expectation is for NO status reporting of activities but to focus on preparations for upcoming CEOS and GEO Plenaries, UNFCCC COP-24 and SBSTA-39, etc. and to check on completion of deliverables for CEOS 2018-2020 Work plan.
 - Registration and accommodation deadlines are fixed. Meeting registrations are due 24 August (as of 23 July, only 39 persons had registered); accommodation room blocks will expire 31 July or 10 August, depending on hotel. Please refer to logistics package, which is also on the SIT Tech Workshop website.
 - Side meetings must be submitted by 31 July.
- VC/WG Day and VC/WG/AHT Telecons
 - All VCs, WGs, and AHTs have confirmed their availability to participate in the VC/WG/AHT tag-up telecons with SIT Chair. Just completed the first session with the WGDisasters/WGCapD and SDG AHT. Four telecons are scheduled for next week. We are discussing the structure of the VC/WG (and AHT) Working Day and will have an agenda available middle of August, after the VCs, WGs, and AHTs provide their comments to draft agenda which was provided for discussion.

- Attendance at the VC/WG Day will be by approval of SIT Chair Team to ensure discussions are focused on topics relevant to the VCs and WGs (not trying to be exclusionary).
- SIT-33 Actions
 - **SIT 33-09:** Freshwater from Space Workshop planning and schedule. CEO and SIT Vice Chair to report
 - **SIT 33-13:** GEO-C Steering Committee representation – need to have confirmation from Pascal and SEC that only Pascal will represent CEOS on the GEO-C Steering Committee (same as SEC 237-1).
 - **SIT 33-16:** SIT Chair Team will provide an update on the LEO-GEO presentation at CGMS-46 at SEC-239
 - A number of SIT actions will also be addressed at the SIT Tech Workshop and these are being discussed with the relevant responsible Parties.

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Other highlights, activities, actions, projects, collaborations

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

- N/A

Upcoming meetings or events

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

- CEOS 2018 SIT Technical Workshop will be held 11-14 September 2018 in Darmstadt (hosted by EUMETSAT).

Attachments

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

CEOS SEC Report

(two pages max.)

Entity: GEO SEC

Prepared By: Akiko Noda

Other highlights, activities, actions, projects, collaborations

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

- GEO Executive Committee (ExCom) meeting was held on 18-19 July in Geneva. The some topics and outcomes are `the followings;
- GEO Secretariat new Director presented ‘The New Vision of a Result-Oriented GEOSS’. This proposal was endorsed by ExCom with some modifications. GEO Secretariat will design the strategy document, engaging the expertise of the GEO community, and working together with the Programme Board (PB) and the GEOSS Evolve team;
- The Digital Earth Africa project was introduced;
- Secretariat expressed the needs to fill in an expert responsible for SDGs;
- GPSDD, SPREP and UNESCO were approved to be Participating Organizations;
- The place of the 2019 Plenary and Ministerial was discussed and Ministerial Working Group was established; and
- Each 4 regional GEOSS representatives introduced its activities and the chair of the PB subgroup reported an interim result. Further discussion will be followed by the subgroup and the final report will be delivered at ExCom in October.

Upcoming meetings or events

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

- GEO Week 2018 (Kyoto, Japan, 29 October-2 November). The deadline for submitting the delegation list is 31 July. Second Call for Exhibition will be closed on 1 August.

CEOS SEC 239 Report

Entity: WGDisasters

Prepared By: Simona Zoffoli (Italian Space Agency), David Green (NASA)

Other highlights, activities, actions, projects, collaborations

- WG Disasters teleconference n.22 held on July,17 in preparation of the September meeting. The meeting will be hosted by INGV in Naples, Italy, 5-7 September 2018, co-located with the City on Volcanoes 10 Conference.
 - o The volcano session will be opened to conference participants to showcase CEOS activities, present the new volcano demonstrator project, engage new participants and users.
 - o GSNL session will be also opened to the supersite PoCs presented at the conference and to others researches and users
 - o A CEOS/GEO session has been organized to coordinate activities
 - o A session has been dedicated to interaction with other WGs
- Geohazard Supersites and Natural Laboratories (GSNL),
 - o ongoing eruptive activity at Kīlauea Volcano, one of the Hawaiian Supersite. Space Agencies are providing data helping to understanding the development of the current eruptive activity and possible future outcomes.
 - o New multihazard proposal under preparation in Perù
 - o on going reports evaluation
- Recovery Observatory (RO), DRM Landslide Pilot
 - o On going projects are progressing without any issue in the reporting period.
 - o Recovery Observatory. A mission was completed to Haiti in May, including two workshops: a local users workshop in Les Cayes, and a two-day national workshop in Port-au-Prince. At the local event, about forty people participated, including the mayor of Jeremie (one of the largest affected urban areas) and representatives from the municipality of Les Cayes. Products from the RO were printed in large format and users were able to provide direct comments on their usefulness and suggest improvements for those products that will be updated. The national event was opened by the Minister of Planning and by the head of UNDP Haiti. It involved some 50 people over the two days and was an opportunity to review in detail the status of products in each thematic areas as well as to identify new areas of interest not yet worked on by the RO. The RO has reached its halfway point and the users are pleased with the initial products. The Copernicus products have been delivered.
 - o Landslide project. The group held a well-attended meeting during the EGU week in Vienna. They are currently working to coordinate tasking of imagery over Nepal to be ready for the monsoon season, which is a major period for landslides. There are also acquisitions going on in the Caribbean (Haiti) and over Africa.
- New initiatives (Volcano/seismic and Flood Demonstrator, GEODARMA, Geohazard Lab)
 - o Data Coordination Team is consolidating the data provision for each project
 - o NOAA has agreed to chair the new Flood Demonstrator project. An update on its development will be presented at WG disaster meeting in September.

Upcoming meetings or events

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

- 10th CEOS WG Disasters meeting, hosted by INGV to be held in Naples, Italy, 5-7 September 2018, colocation with the City on Volcanoes 10 Conference.

CEOS SEC 239 Report

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

Prepared By: Mirko Albani - Chair (ESA), Rob Woodcock – Vice-chair (CSIRO)

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

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

- Teleconference held with COVERAGE team to explore possible approaches to make some key thematic datasets discoverable and accessible through the WGISS Connected Data Assets. Procedure based on utilisation of FedEO and registration in IDN sent to the COVERAGE team for further delivery to data holders. Close follow-up of the activity in cooperation with COVERAGE team.
- WGISS is planning to support the CEOS booth at the upcoming GEO Plenary through videos, brochures, slides and demo of CEOS data access (e.g. through CEOS Carbon Portal): topics proposed to Bryan Killough on WGISS Connected Data Assets, Data Stewardship and Future Data Architectures.
- Next joint teleconference with WGCV being scheduled for the first week of September in preparation of the SIT technical Workshop.
- WGISS Organization Chart being updated to include point-of-contact for active WGISS members. It will be circulated to CEOS SEC for review/inputs and to encourage more active participation of CEOS members in WGISS.
- *Data Preservation and Stewardship*
 - White Paper on Data Stewardship Reference Model being drafted. Finalization expected by September 2018.
 - Proposal for Data Management Principles Implementation Guidelines (DMP IG) update on the basis of CEOS WGISS Maturity Matrix being drafted. Finalization expected by October 2018.

- *Data Discovery and Access*
 - WGISS Connected Data Assets Activities:
 - 20 additional ESA collections registered in IDN and accessible through FedEO with 11 millions searchable and accessible granules.
 - Activities on WGClimate *ECV inventory Version 2.0* datasets registration in IDN to be resumed in coordination with WGClimate chair through utilisation of the FedEO procedure also proposed in the frame of the COVERAGE/WGISS activity.
 - National Remote Sensing Center of China (NRSCC) Director accepted WGISS chair invitation to become an active participant to the WGISS Connected Data Assets (CDA) and to implement connection between CDA and ChinaGEOSS platform datasets.
 - CEOS OpenSearch Conformance Test Document being finalised and to be released in its final version by mid September.

- *Interoperability and Use*
 - Future Data Architectures:
 - FDA actions included in the CEOS 2018-2020 Work-plan and assigned to WGISS are being actively discussed and addressed by WGISS members with substantial progress. Dedicated session being organised at WGISS#46.
 - New version of the CEOS WGISS Carbon Portal issued in July and currently being reviewed by Carbon Team as beta test user. Open up of the portal to additional users will be done after Carbon Team review and implementation of the relevant comments/feedback.

- *Technology Exploration:*
 - Technology webinar on “Agile Development and the Scaled Agile Framework” scheduled on 31st of July. Link to the recorded webinar and presentation will be made accessible on the WGISS web site.

Upcoming meetings or events

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

- WGISS 46 – October 22-25, DLR (Oberpfaffenhofen, Germany): agenda under finalization including Joint Workshop on GEOSS-WGISS Interoperability and Future Data Architectures being organized in coordination with GEO Secretariat.

CEOS SEC-239 Report

Entity: WGCapD

Prepared By: A. Senthil Kumar (Chair/ISRO) and Nancy (Vice Chair/NASA)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- We have exchanged email and CEOS SEC is working to identify SDG AHT and FDA AHT representatives to work with WGCapD on joint actions.

Other highlights, activities, actions, projects, collaborations

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

- WGCapD member from NASA participated in the 9th WMO/CGMS VLab Management Group (VLMG-9) biennial meeting, presented a “partner” poster, and highlighted opportunities to communicate, coordinate, and/or collaborate with NASA, CEOS and GEO capacity building activities. Important outcomes include sharing of VLab calendar database, API, and approaches to the “front end” calendar openly with CEOS WGCapD.

Upcoming meetings or events

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

- ESA trained an INPE trainer, who will provide WGCapD training contributions to the training course on image processing for disaster response at the upcoming AmeriGEOSS 2018 training program August 6 – 10, 2018 at INPE in Sao Jose dos Campos, Brazil.
- WGCapD will present an overview of our activities at AmeriGEOSS Week including regional trainings in the Americas.

CEOS SEC Report

Entity: WGCV

Prepared By: Kurt Thome (NASA)
Cindy Ong (CSIRO)

Other highlights, activities, actions, projects, collaborations

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

- WGCV held a telecon on July 24 with discussions concentrating on open action items and the agenda for WGCV meeting planned for August.
- Members from the Atmospheric Composition Subgroup reported about their participation in the ACVC meeting held in Washington, DC. Discussions relevant to WGCV input included geophysical requirements for geostationary and air quality satellite sensors as well as progress on harmonising and QA for climate variables
- An update was given by the SAR subgroup lead on the results from the recent workshop held in Argentina that are also available on the CEOS website.
- Plans continue for the August 28-31 WGCV-44 meeting at EUMETSAT. The agenda will take advantage of the presence of WGClimate Chair, multiple VC representatives, and GSICS leads. Key topics during the meeting will include WGCV's role within CARD4L, GHG and biomass product validation, and WGISS/WGCV joint activities.
- The RadCalNet website was opened to the public on July 24 (<https://www.radcalnet.org>). The RadCalNet portal now hosts several years of surface and atmosphere measurements from 4 instrumented sites: Baotou (China), Gobabeb (Namibia), La Crau (France) and Railroad Valley Play (US). These measurements are used to simulate the TOA nadir reflectance in the 400 nm to 2500 nm spectral range, every 30 minutes. The TOA reflectance data are provided at 10 nm spectral sampling interval and within spectral channels simulated by a 20 nm FWHM triangle spectral response.
- The WGCV Vice Chair, C. Ong, organized a training course on vicarious calibration as part of IEEE Technical Committee activities. The course included inputs from the WGCV Chair, K. Thome. Ong has

contacted the WGCapD on ways to make the videos and content from the course available to the CEOS community.

Upcoming meetings or events

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

- WGCV-44 Aug. 28-31, 2018 hosted by EUMETSAT in Darmstadt, Germany
- WGCV Microwave Subgroup meeting at EUMETSAT in Darmstadt, Germany Aug. 27, 2018
- CEOS-WGCV Cloud Masking Inter-comparison Exercise (CMIX) and the second Atmospheric Correction Inter-comparison Exercise (ACIX II) will meet 17-18 October in College Park, Maryland, USA

CEOS SEC-239 Report – July 2018

Entity: SEO

Prepared By: Brian Killough (NASA)

Updates on issues raised during the last CEOS SEC teleconference

- The SEO submitted a request for a CEOS exhibition booth to GEO. They will work with the CEOS Chair and SIT Chair teams to coordinate payments for the exhibition space. If any other CEOS organizations would like to contribute, we are happy to accept donations!

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)

- The SEO team attended the IGARSS conference in Valencia, Spain on July 23-27. There were 13 papers presented in 3 sessions with a focus on the Open Data Cube (ODC). Preceding the conference, the SEO team conducted a full-day ODC training session for 20 international users.
- The SEO is hosting 5 summer students as part of NASA's DEVELOP project from June 4 to August 10. They are working on the Open Data Cube with a team from Colombia (IDEAM and the Univ. of Andes). The project will focus on deforestation detection and a land classification workflow.

CEOS SEC Report

Entity: CEOS Ad-hoc Space Data Coordination Group (SDCG) for GFOI

Prepared By: Osamu Ochiai (CEOS Lead for GFOI, JAXA)

Issues requiring discussion/decision during current CEOS SEC teleconference **(Dot points)**

- JAXA and GFOI Office co-hosted a GFOI Data Component Meeting in Tokyo recently to plan the Phase 2 activities. It is apparent that GFOI is developing considerable momentum, including in attracting major forest donor governments and institutions.. UK, Germany and World Bank. World Bank declared itself willing to co-lead the Data Component alongside CEOS. Following major points of outcomes notably actions;
 - Develop a registry of GFOI-compliant products (data and tools);
 - Active connection between some GFOI-compliant tools with the live hosting of these tools on the SEPAL platform;
 - Continue to advocate for free and open access to satellite data covering all of the world's forests, including to new and existing datasets that are currently not freely available. Furthermore, seek to improve cost-effective access for developing countries to high resolution data;
 - Review existing GFOI guidance on in-situ data collection, storage, maintenance, processing and integration with remote sensing data; and
 - Analyze country needs that are already understood, from UNFCCC Technical Assessments and FCPF reviews etc.
- CEOS and World Bank have offered to co-lead the Component initially, others are also welcome. Participants of the Tokyo meeting will be assumed as initial members, unless stated otherwise. The GFOI Office is available to assist with facilitating component activities for at least the interim period.
- Since SDCG EXEC has developed a new draft 3-year Work Plan to reflect the GFOI Phase 2 activities and the evolution of CEOS interests, it needs to be further elaboration necessary on how to reconcile with the outcomes of GFOI Data Component Meeting in Tokyo.

CEOS SEC Report

Entity: Ad Hoc Team on Sustainable Development Goals (AHT SDG)

Prepared By: CSIRO (F. Kerblat) for co-leads A. Held and M. Paganini (ESA)

Updates on issues raised during the last CEOS SEC teleconference

(Dot points)

- We are still looking for a 3rd co-chair (Americas' region) to replace Eric W. (USGS) who stepped down in May (especially with Flora off for a few months from mid-late August)
- We would like to see other agencies to support more regularly our work on SDG activities (incl. reporting on their SDG activities) to be able to continue our work

Issues requiring discussion/decision during current CEOS SEC teleconference

(Dot points)

- Is any agency willing to become a 3rd co-chair the team to provide more support?
- Announcement of the EO for Pacific and Sustainable Development workshop organised by CSIRO, and supported by GA, CNES, European embassies (France, UK, etc) and other organisations, now postponed to **11-12 October in Brisbane** (the week before clashed with the IAC in Bremen and caused too much trouble for space agencies).
 - Expression of interest sent out
 - Draft agenda prepared, in the process to be reviewed internally before circulation

Other highlights, activities, actions, projects, collaborations

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

- High-Level Political Forum side-event on EO and SDG in NYC last week:
 - Jonathon Ross (GA) will probably report back to SEC during the call.

- Claire Melamed (GPSDD) and Greg Scott (UNGGIM) moderated the discussions
- Australia sent a delegation, and Neil Sims (CSIRO) represented the AHT SDG (+CSIRO) + MJ Bourassa (CSA, Canada) + Argie/Lawrence (GEO, EO4SDG) also attended the event and other side-events
- Distribution of CEOS flyers and EO handbooks
- Great event with positive feedback and discussions at the event itself + at the 2 technical workshops
- Flora/Kim to make inputs available soon on CEOS AHT SDG webpage
- LDN sub-team is now working on the Terms of Reference/Implementation Plan for the GEO new initiation on LDN (Neil Sims will lead the efforts for CSIRO, M.Paganini) + Symbios support
- Several “Pacific Data Cube/Hub proposals” are being put together (GA, CSIRO) also for Indonesia, Vietnam... rising interest in the region
- GEOGLAM [RAPP \(Rangelands\) newsletter](#) sent out early July with SDG focus (feedback from the RAPP-SDG-African Regional Data Cube) Nairobi workshop
- Call-meeting (1/2) between CEOS/GEO (Alex/Lawrence/Argie) last week to discuss and clarify GEO and CEOS roles with SDG activities:
 - Development of examples (discussed ARDC effort; GEOGLAM RAPP products; Vietnam as one case study; WHO collaboration on health-related SDGs; etc.)
 - Follow up in ~2 week time with a call & exchange notes on UN HLPF (Argie & Lawrence) & GEO Exec. Committee (Alex)
 - Scope out a set of tangible activities that show complementarity between the 2 teams (EO4SDG & AHT SDG) to bring to the AHT SDG.
- Special issue RSE Journal on SDG (led by Graciela Metternicht, UNSW Australia): ~90 abstracts received (incl. GEO initiative like GEOGLAM)!
 - Co-editors (incl. Argie (NASA/EO4SDG), Flora) have reviewed them and informed the authors of the outcome. Whole Papers to be submitted by 30th September 2018 – already 3 received. Need to ensure state-of the art methodologies will balance some more “policy-oriented” papers
 - High-level paper to be drafted/written

Upcoming meetings or events

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

- SIT Chair tag-up telecom Wednesday 25th July with WG CapD and Disasters co-leads
- Follow-up GEO/CEOS AHT SDG co-leads' call early August (2/2)
- SIT TW side-meeting on SDG (Wednesday, 2h)
- EO4Pacific for Sustainable Development Forum in Brisbane, 11-12 Oct

Attachments

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

See below the latest Expression of Interest/Flyer for the EO4Pacific workshop