



Committee on Earth Observation Satellites

WGCapD: Working Group on Capacity Building and Data Democracy

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CEOS 32nd Plenary 2018

Session 6 Working Groups, Virtual Constellations

and Ad Hoc Teams, #6.2

Brussels, Belgium

17 – 18 October 2018





- Summary of Work Plan Highlights
- Implementation of training calendar used also by VLab and WMO Global Campus (For Endorsement)





- CEOS Work Plan 2018-2020v0 – WGCapD’s 11 deliverables
 - **Global activities**
 - CB-28, 30, 31: MOOCs on Radar Backscatter, SAR applications, LCLUC
 - CB-29: Webinar series on multiple topics, e.g. GEOGLAM, Hyperspectral Remote Sensing and disasters
 - **Regional activities – training in GEO regions**
 - CB-20, 26, 27: AmeriGEOSS, AfriGEOSS, AOGEOSS
 - CB-32: Regional hands-on training in land cover land use change
 - **CB infrastructure**
 - CB-21: portal-based access to CB and training resources
 - **WG collaborations**
 - CB-19: SDG AHT awareness building
 - FDA-5: FDA’s awareness building and outreach



CB-28, 30, 31: Massive On-line Courses (MOOCs) on Radar Backscatter, SAR applications, LCLUC

- **CB-28: MOOC on Radar Backscatter**
 - Due Q1 2019
 - DLR SAREdu with FSU-Jenna
 - Task is delayed, still expected in Q1 2019
- **CB-30: MOOC on SAR Applications**
 - Due Q1 2019
 - ESA and DLR
 - Task is delayed, still expected in Q1 2019
- **CB-31: MOOC on LCLUC**
 - Due Q4 2019
 - ESA, DLR, CSA
 - Potential DLR contribution from MOOC targeting SDG 2 (Zero Hunger) and 13 (Climate Actions)
- **CB-29: Webinar series on multiple topics, e.g. GEOGLAM and disasters**
 - Due Q3 2019
 - ISRO with support of NASA, DLR, other theme specialists
 - Webinars on GEOGLAM, Hyperspectral Remote Sensing, disasters, May – July 2019



CB-20, 26, 27: AmeriGEOSS, AfriGEOSS, AOGEOSS

- CB-20: AmeriGEOSS (Aug 6 – 10, 2018, Brazil)
 - Due Q4 2018 - **Completed**
 - ESA and INPE
 - ESA trained INPE trainer, INPE led training.
 - INPE's TerraMA2 Platform for Monitoring, Analysis and Alert of Environmental Extremes
 - Remote Sensing Images for Disasters Response
 - INPE CBERS4 optical imagery – burned areas
 - ESA Sentinel-1 imagery – flooding
 - Tools – RUS and SNAP, GEP
 - Low actual turnout – 3 of the 10 signed up
 - NASA also presented an overview of the CEOS WGCapD at AmeriGEOSS Symposium.





CB-20, 26, 27: AmeriGEOSS, AfriGEOSS, AOGEOSS

- CB-26: AfriGEOSS (training June 22 – 25, 2018, Gabon)
 - Due Q4 2018 - **Completed**
 - ESA, NASA, and UK National Centre for Earth Observation
 - Provided SAR and GEE training.
 - SAR applications for flood mapping, pollution mapping, forest height application.
 - Climate data set processing.
 - Use of Google Earth Engine for image visualization and processing.
 - Trained 20 participants.





CB-20, 26, 27: AmeriGEOSS, AfriGEOSS, AOGEOSS, continued

- **CB-27: AOGEOSS**

- Due Q4 2020
- ISRO, others
- Focusing on EO for SDG training program/webinar with SDG AHT and regional space agencies with target of Q4 2019 or Q1 2020.

CB-32: Regional hands-on training in land cover land use change

- Due Q4 2019
- ESA and NASA
- NASA discussing regional training with GISTDA in 2019, coordinating with ESA.



WG collaborations

CB-19: SDG AHT awareness building

- Due Q4 2018
- Liaison from SDG AHT to WGCapD for this action: Argie Kavvada/NASA
- Planning awareness webinar to CEOS and associated community

SDG AHT collaboration for upcoming workplan

- Start with 2 mature indicators 6.6.1 (water) and 11.3.1 (Urban)
- Determine if need to name a different liaison for these next steps

FDA-5: FDA's awareness building and outreach

- Due Q2 2019
- WGISS Technology subgroup co-chairs to serve as liaison to WGCapD
- WGCapD will support WGISS in their development of a series of awareness-level (1 hour?) webinars targeting potential users of FDA technologies.
- Potential topics include: Analysis Ready Data and CARD4L, Exploitation and Application Platforms, Data cubes, Data and Information Access Services (DIAS's)
- WGCapD will share webinar best practices and share training opportunities to those previously trained through the WGCapD World distribution list.



- Multiple actions supporting regional GEOSS initiatives
- Working to re-engage with GEO CB WG now that have new GEO CB Coordinator virtual secondees
- Sharing capacity building best practices
- Supporting CEOS SDG AHT and GEO EO4SDG in building awareness of use of EO data in national SDGs
- Sharing resources and tools, e.g. EOCollege, with GEO CB
- Announcing training opportunities, e.g. webinars, offered by GEO and WGCapD with each others' distribution lists to maximize participation and benefits

Infrastructure

CB-21: portal-based access to CB and training resources

- Due Q4 2020
- NASA, DLR, ISRO
- Held side meeting Tuesday with CGMS VLab to explore use of CGMS VLab Calendar (have API), WMO Global Campus library catalog, and share best practices.

- Side meeting held during CEOS SIT TW included 10 in-room and 5 on-line participants
 - VLab (TSO, EUMETSAT, WMO) and
 - CEOS (SEO, WGISS, WGDisasters, SDG AHT, GEOGLAM, SST VC, WGCapD)
- Discussed Training Calendar, Resource Library, Best Practices
- Agreed to request endorsement from CEOS Plenary for implementation of training calendar used also by VLab and WMO Global Campus



- **Benefit to both CEOS members as well as the collective CEOS WGCapD**
 - Training activities will be available on a standardized calendar with consistent information
 - Training participants will be able to more easily find, participate, and learn from our training activities to use Earth observations for their needs
- **Agreed to pursue implementation of EUMETSAT implementation of training calendar used also by VLab and WMO Global Campus**
 - History of use
 - A reasonable amount of information to be included, and
 - General acceptance by the training community of this tool

- Three Pilot Efforts : NASA, DLR and CEOS SEO will implement the training calendar for its capacity building program to advertise trainings offered by ARSET and by SERVIR, through EOCollege and for WGCapD, respectively.
- Work with EUMETSAT for revised API and to train someone in how to use and maintain the calendar.
- Each pilot will define their “front end” based on their understanding, compare their approaches, and together agree on the approach that should be recommended for implementation for the WGCapD calendar.
- The WGCapD calendar design will be provided to the WGCapD participating agencies for final review and implementation by Q3 2019



- Suggested Endorsement

- WGCapD participating agencies are requested to endorse this approach and provide information on training events.
- WGCapD agencies may plan to implement the Calendar as appropriate at their Agency website and/or contribute to the WGCapD calendar.
- The 2018 CEOS Plenary is requested to endorse this implementation plan as a step towards making training events more discoverable and accessible.



Thanks

Chair: Dr. Prakash Chauhan
Vice Chair: Dr. Nancy Searby
& WGCapD Members

