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Committee on Earth Observation Satellites (CEOS)

Working Group on Capacity Building and Data Democracy (WGCapD)

An Overview on Activities & Initiatives

Presented by: Nancy D. Searby, Hilcea Ferreira, and Senthil Kumar on behalf of WGCapD

Institution/Country: NASA, CEOS/USA, INPE, CEOS/Brazil, IRSO, CEOS/India

Email: Nancy.D.Searby@nasa.gov

Session Name: Foundational Activities

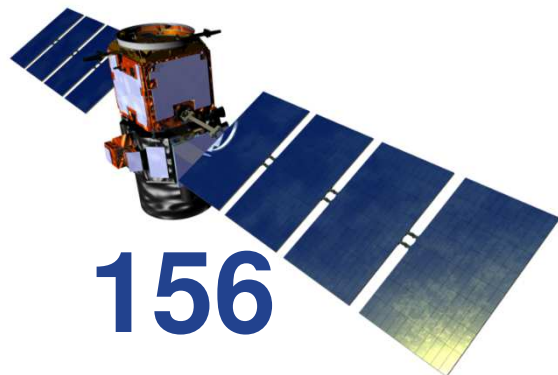
Date: August 7, 2018



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156
Satellites

CEOS & GEO build skills to use EO

CEOS



60
Agencies

GEO



Participating
Organizations



125 **105**
Nations & European
Commission

8

**Societal Benefit Areas
(SBAs)**



*Ecological
Forecasting*



Disasters



Energy



*Water
Resources*



*Agriculture &
Food Security*



*Transportation
&
Infrastructure*



*Health & Air
Quality*



*Urban
Development*



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Objectives

Of CEOS WGCapD



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WGCapD Objectives



- Raise awareness of the value of Earth Observation (EO) data products and services to user communities, including
 - Support to locate and access data, products, and tools
 - Targeted training workshops
- Support CEOS initiatives and help Working Groups (WGs) and Virtual Constellations (VCs) undertake their own capacity building initiatives
 - E.g. guidance on best practices
- Collaborate with GEO, UNOOSA, and other UN agencies
 - Bring out the benefits of EO tools and services
 - Help to collect, coordinate, and synergize capacity building (CB) resources
 - Provide expertise to support their efforts in workshops, symposia, and conferences



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WGCapD 2018-2020 Plans



- Global
 - Massive Open Online Courses (MOOCs), e.g. radar backscatter, SAR applications, LCLUC
 - Webinar series, e.g. agriculture, disasters
- Regional
 - Training in conjunction with GEO regional initiative meetings, e.g. AmeriGEOSS
 - ***This week: use of high resolution data in disaster response***
 - Regional hands on training in land cover land use change
- CB infrastructure – portal-based access to calendar and training resources
- Collaborations with other CEOS groups, e.g. SDG's, Future Data Architecture



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Beneficiaries

And final users



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WGCapD Beneficiaries



- Depend on type of training
 - MOOC's and webinars open to all
 - Hands on training target specific users
 - Decision-makers and/or their analytical staff
 - Academia, including teachers and students
 - Target regional users with regional training
- CB infrastructure aims to support CB practitioners and users of EO needing training
- CEOS collaborations provide training best practices to subject matter experts



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How can your project

Institution collaborate with AmeriGEOSS?



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Major past accomplishments



- Capacity Building Best Practices document
- Training resources posted on INPE-provided Learning Center, which is linked to GEOCab Portal and CEOS WGCapD website
- Many regional trainings, e.g. in SRTM 30-m data, SAR
- Many webinars on EO and applications
- WGCapD World distribution list provides CEOS outreach to all trained
- Have participated in AmeriGEOSS Week training for past 2 years

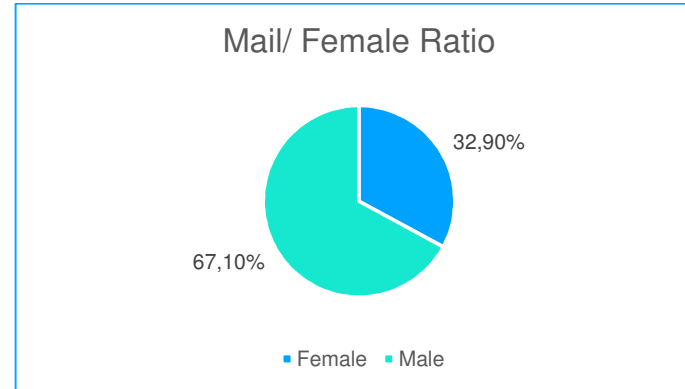
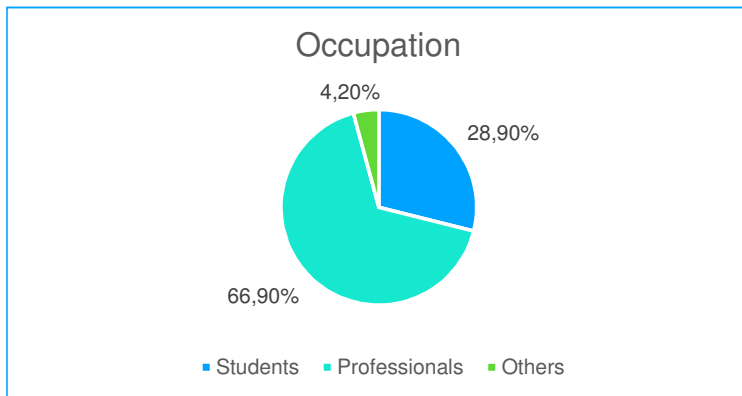
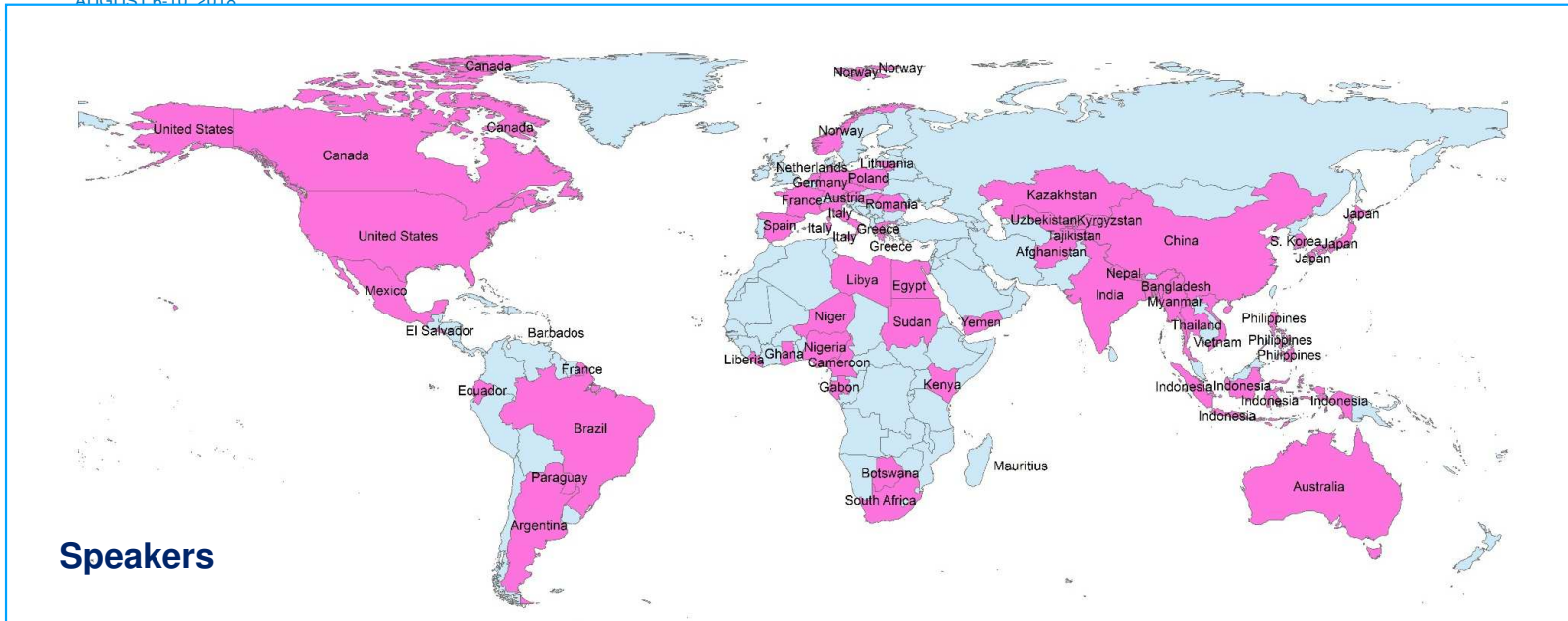
Total No. Of Participants: 252 from 53 Countries

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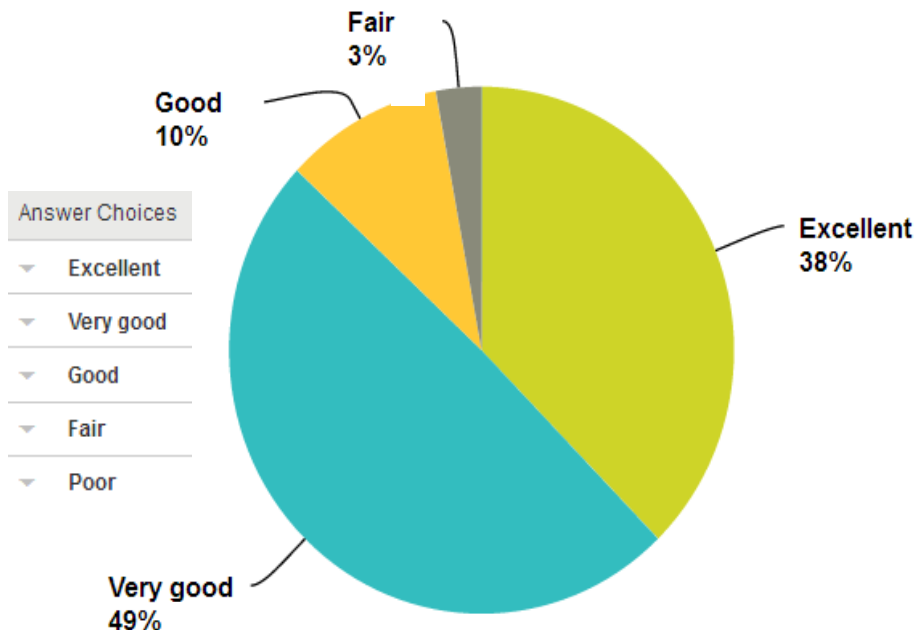
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Lessons Learned



Overall, how would you rate the webinar series?



What suggestions do you have for improving this webinar course?

- Practical Hands on may be included
- More Case studies and demos
- More Interactions with Lectures
- Question Paper may be given immediately after each webinar

Would you like to propose similar webinar series on other topics in future ? If yes, please suggest the topic.

- UAV Technology & its applications
- LIDAR Technology & its applications
- Hyperspectral remote sensing and its applications in various fields
- Natural Resources Management(hydrology, forest, agriculture etc.)
- Urban Mapping, monitoring and planning
- Disaster monitoring and damage assessment
- Air Quality monitoring
- Advances in RS&GIS



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AmeriGEOSS collaborations



- Continue to participate in AmeriGEOSS Week training courses
- CB infrastructure aims to support CB practitioners and users of EO needing training
- CEOS collaborations provide training best practices to subject matter experts
- Leverage resources of CEOS agencies that actively participate in WGCapD
 - **Americas: CRECTEALC, INPE, NASA, USGS, NOAA**
 - Europe: DLR, ESA; CNES recently joined
 - Asia-Oceania: ISRO; VTSC recently joined
 - Africa: SANSA
 - Global: GEO, GODAN, UNOOSA



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What would you like to

Envision your engagement with AmeriGEOSS



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AmeriGEOSS collaboration vision



- Continue the collaboration and....
- Strengthen engagement with and support to GEO CB Coordination Working Group
- Engage and work with regional training centers supporting other global networks
 - WMO/CGMS
 - UN regional Centres for Space and Technology Education
 - UN SPIDER's 17 Regional Support Offices in Africa, Latin America, the Caribbean, Europe and Asia
 - Others?



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Moving forward



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WGCapD 2018-2020 Plans



- Global
 - 2019: Massive Open Online Courses (MOOCs), e.g. radar backscatter (Q1), SAR applications (Q1), LCLUC (Q4)
 - Webinar series, e.g. agriculture, disasters
- Regional
 - 2019 (Q3) Training in conjunction with GEO regional initiative meetings, e.g. AmeriGEOSS
 - ***This week: use of high resolution data in disaster response***
 - 2019 (Q4) Regional hands on training in land cover land use change
- 2020 (Q4) CB infrastructure – portal-based access to calendar and training resources
- 2018 (Q4): Collaborations with other CEOS groups, e.g. SDG's, Future Data Architecture



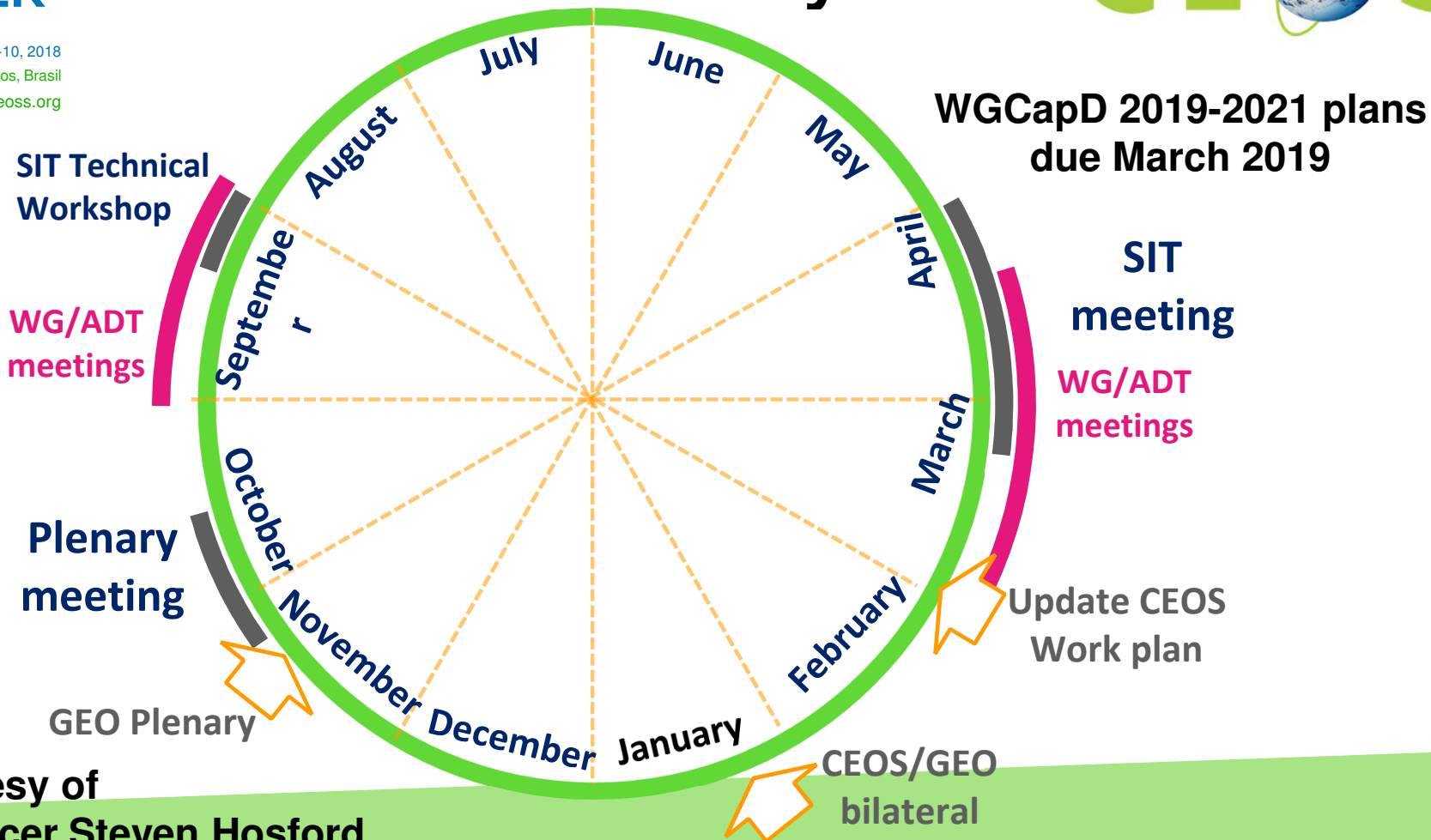
CEOS Annual Cycle*



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*Courtesy of
CEOS Executive Officer Steven Hosford



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Thanks!

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CEOS WGCapD website:

<http://ceos.org/ourwork/workinggroups/wgcapd/>