**Draft Agenda – WGCapD-7**

**March 6-8, 2018**

**March 6th - Day 1 – Technology, Tools & Methods** (virtual presentations - Local time is UTC-3)

**Location**: Laboratory of Integration and Testing (LIT) – Tower A, 1st Floor, Training Room B

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| **About INPE** | | | | **CEOS Workplan** |
| 0 | 8:30 – 9:00 | Registration | ALL |  |
| 1 | 9:00 – 9:30 | Welcome, Opening Remarks and General Overview of INPE´ structure and activities | Maria Virginia Alves - INPE Chief of Staff |  |
| 2 | 9:30 – 10:00 | Earth Observation Coordination - Overview | Lubia Vinhas, Head of Image Processing Division - DPI |  |
| 3 | 10:00 – 10:20 | VLab activities at CPTEC (Center for Weather Forecast and Climate Studies) | Natalia Rudorff, Researcher, CPTEC |  |
| 4 | 10:20 – 10:30 | GEONetCast | Diego Souza, Technologist CPTEC |  |
|  | **10:30 – 10:35 – Group Picture** | | | |
|  | **10:35 – 11:00 - Coffee-Break & Poster Session** | | | |
| **General Business** | | | | **CEOS WP** |
| 5 | 11:00 – 11:20 | Round of Introductions & Meeting Strategy & Adoption of the Agenda | Senthil Kumar (ISRO)  Nancy Searby (NASA) & ALL |  |
| 6 | 11:10 – 11:40 | CEOS big picture, perspectives and SIT Meeting | Steven Hosford (CEOS CEO, ESA) |  |
| **Technology, Tools & Methods** | | | | **CEOS WP** |
| 7 | 11:40 – 11:55 | COVE Tool | Kim Holloway (CEOS SEO, NASA) | **CB-24** |
| 8 | 11:55– 12:10 | Data Cube | Kim Holloway (on behalf of Brian Killough) (CEOS SEO, NASA) | **CB-25** |
| 9 | 12:10 – 12:25 | Brainstorming - Central Repository for CB resources? | Lúbia Vinhas (INPE), Moderator | **CB-21** |
|  | **12:30 – 13:30 - Lunch** | | | |
| 10 | 13:30 - 14:00 | Discussions & Questions & Answers - Technology, Tools & Methods | | |
| **Agency flash talks about Technology, Tools & Methods (3 slides only, format to be provided)** | | | | |
| 11 | 14:00 – 15:00 | Agencies highlights & Virtual Presentations – 5 minutes each agency related to Capacity Building Activities - Technology, Tools & Methods   1. ESA – Francesco Sarti & Chris Stewart 2. GODAN – Suchith Anand 3. CRECTEALC – Sergio Camacho 4. DLR – Dieter Hausamann 5. INPE – Lúbia Vinhas 6. ISRO – Senthil Kumar 7. NASA – Nancy Searby 8. CNES – Linda Tomasini 9. USGS – Eric Wood 10. GEO Capacity Building Coordination – Mark Noort (15 minutes) | | |
| **Technology, Tools & Methods – SAR Session** | | | | **CEOS WP** |
| 12 | 15:00 – 15:15 | EO College & SAR-EDU | Robert Eckardt (University of Jena) |  |
| 13 | 15:15 – 15:30 | ESA SAR MOOC | Robert Eckardt (University of Jena)  Francesco Sarti (ESA) |  |
| 14 | 15:30 – 15:45 | NASA-ISRO SAR Initiative (NISAR) | Paul Rosen (NASA-JPL) |  |
|  | **15:45 – 16:15- Coffee-Break & Poster Session** | | | |
| 15 | 16:15 – 16:30 | “A Capacity Building Center for the Use of SAR in Decision Making” – AmeriGEOSS focus | Franz Meyer (University of Alaska - Fairbanks) |  |
| 16 | 16:30 – 17:00 | Discussions & Questions & Answers | | |
| **Looking for Synergies I** | | | | **CEOS WP** |
| 17 | 17:00 – 17:30 | Group Discussion and Reflection: Technology, Tools & Methods | | |
| **Summary of the day** | | | | |
| 18 | 17:30 – 17:45 | Coordinating Training Activities & Next Steps & Calendar 2018-2020 | | |
| -- | 17:45 | ADJOURN – Transport to Ema Palace Hotel | | |
| ***19:00 - Hosted Barbecue Dinner @ Restaurant Ema Palace Hotel*** | | | | |

**March 7th - Day 2 – Support to Regional Initiatives, SDGs & Thematic Areas**

**Location**: Laboratory of Integration and Testing (LIT) – Tower A, 1st Floor, Training Room B

How can WGCapD best serve CEOS entities and the communities for Capacity Building? What are the users´ needs? How do we organize ourselves?

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| **Regional by Thematic Areas** | | | | | **CEOS**  **Workplan** |
| 19 | 9:00 – 9:15 | Provide CB support to regional GEO initiatives: AOGEOSS | Wenbo Chu  GEO Secretariat | | **CB-23** |
| 20 | 9:15 – 9:30 | Provide CB support to regional GEO initiatives: AfriGEOSS | Andiswa Mlisa (SANSA) | | **CB-23** |
| 21 | 9:30 – 9:45 | Provide CB support to regional GEO initiatives: AmeriGEOSS | Eric Madsen (NOAA) | | **CB-23** |
| 22 | 9:45 – 10:00 | Discussions & Questions & Answers | | | |
| **SDG’s & Thematic Areas** | | | | | **CEOS WP** |
| 23 | 10:00 – 10:15 | **SDGs** | Eric Wood (USGS) | | **CB-19** |
| 24 | 10:15 – 10:30 | Discussions & Questions & Answers | | | |
| **10:30 – 10:35 – Group Picture** | | | | | |
| **10:35 – 11:00 - Coffee-Break** | | | | | |
| 25 | 11:00 – 11:15 | **Disasters**  “Recovery Observatory” in Haiti &  CEOS WGDisasters | Hélène de Boissezon (CNES) &  David Green (NASA) | |  |
| 26 | 11:15 – 11:30 | **Forests:** Amazon Regional Center (CRA) & Capacity Building Initiatives in Tropical Forests Monitoring | Alessandra Gomes (INPE) | |  |
| 27 | 11:30 – 11:45 | GFOI´s SilvaCarbon Capacity Building Best Practices | Sylvia Wilson/USGS | |  |
| 28 | 11:45 – 12:00 | Land Cover Land Use Change (LCLUC) training initiatives | Nancy Searby (NASA) | |  |
| 29 | 12:00 – 12:30 | Discussions & Questions & Answers | | | |
| **12:30 – 14:00 - Lunch** | | | | | |
| **Agency flash talks about Regions, Themes, SDGs (3 slides only, format to be provided)** | | | | **CEOS WP** | |
| 30 | 14:00 – 15:00 | Agencies highlights & Virtual Presentations – 5 minutes each agency related to Capacity Building Activities - Regional Initiatives, SDGs & Thematic Areas   1. UNOOSA – Lorant Czaran 2. ESA – G. Campbell & S. Coulson, TBC 3. UKSA - Sophie Hebden 4. GODAN – Suchith Anand 5. DLR – Michael Bock 6. ISRO – Senthil Kumar 7. NASA – Nancy Searby 8. CNES – Linda Tomasini 9. USGS – Eric Wood 10. CSA – Guy Aubé 11. CRECTEALC – Sergio Camacho 12. … | | | |
| **Thematic Areas (continues)** | | | | | **CEOS WP** |
| 31 | 15:00 – 15:15 | **Agriculture**: AmeriGEOSS, NASA Grant, EOFSAC, GEOGLAM, and any other relevant activities | Alyssa Whitcraft (University of Maryland) | | **CB-26** |
| 32 | 15:15 – 15:30 | **Discussions about Water & Water Cycle** | ALL | |  |
| 33 | 15:30 – 16:15 | Discussions & Questions & Answers | | | |
|  | **16:15 – 16:30 - Coffee-Break & poster session** | | | | |
| **Looking for Synergies II** | | | | | |
| 34 | 16:30 – 17:00 | Group Discussion and Reflection: Regional, Thematic Areas and Strategies | | | |
| **Summary of the day** | | | | | |
| 35 | 17:00 - 17h40 | Coordinating Training Activities & Next Steps & Calendar 2018-2020  Monitoring & Evaluation - reflect back: how do we get feedback on effectiveness/measures of training impact? How do we address Regions and Languages | | | |
| --- | 17:45 | ADJOURN – Transport to Ema Palace Hotel | | | |
| ***19:00 - No-host dinner @ Armazem Pizzaria*** | | | | | |

**March 8th - Day 3 – Field Trip and Meeting Wrap-Up**

**Price per person: 160 BRL** (includes transportation, lunch and meeting room with water and coffee).

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|  | **Field Trip - Portal Equilibrium (São Francisco Xavier, São Paulo)** | | | **CEOS**  **Workplan** |
|  | 8:30 | Departure from Ema Palace Hotel |  |  |
|  | 9:30-10:00 | Arrival at Portal do Equilibrium |  |  |
|  | 10:00-11:00 | **Explore the place and cave trail – around 40 min. hiking[[1]](#footnote-1)** |  |  |
|  | 11:00 – 12:00 | Refresh & Planning Side Discussions |  |  |
|  | 12:00 - 13:30 | Lunch |  |  |
| **----** | **Meeting Wrap-Up** | | | |
| 36 | 13:30 – 13:45 | Terms of Reference update approval | ALL |  |
| 37 | 13:45-14:15 | GEO – Current and Future Perspectives | Doug Cripe & Gilberto Camara - next GEO Secretariat Director - 2018-2021 | |
| 38 | 14:15– 14:45 | Provide CB support to regional GEO initiatives - Planning | ALL | **CB-23** |
| 39 | 14:45 – 15:20 | Way forward – Best Practices Document |  |  |
| 40 | 15:20 – 15:30 | Participation in CEOS main meetings |  |  |
|  | **Meeting Outcomes** | | | |
| 41 | 15:30 – 16:00 | WGCapD Activities and Strategic Planning and Calendar of events |  |  |
| 42 | 16:00 – 16:10 | Actions |  |  |
| 43 | 16:10– 16:20 | Wrap-up |  |  |
|  | 16:30 | Departure to São José dos Campos |  |  |
|  | 18:00 | Arrival – Ema Palace Hotel |  |  |

CEOS WORKPLAN – 2017-2019

| **Capacity Building, Data Access, Availability and Quality Objectives/Deliverables: 2017-2019** | | | |
| --- | --- | --- | --- |
| **Objective/Deliverable** | **Projected Completion Date** | **Background Information** | **Responsible CEOS Entity** |
| **CB-19**: Collaborate with the CEOS SDG-AHT to identify SDG-related training and capacity building opportunities related to space-based EO and meeting the challenges of the 2030 Agenda for Sustainable Development | Q4 2018 | The WGCapD will work closely with the CEOS SDG Ad Hoc Team (who supports GEO in promoting the use of EO to track progress towards and achieve the UN Sustainable Development Goals), to identify, plan, and ultimately implement SDG-related training and capacity building activities. | WGCapD |
| **CB-21:** Explore future options for providing portal-based access to capacity building and training resources | Q4 2018 | Conduct a study of existing and potential new approaches to collect, coordinate, and synergize available capacity building and training resources related to satellite Earth observations, e.g. GEOCAB, the VLab training calendar, the EO-College collection of resources, and more. | WGCapD |
| **CB-23**:  Provide CB support to regional GEO initiatives: AmeriGEOSS and AfriGEOSS | Q4 2018 | Provide training and capacity building support to the AmeriGEOSS and AfriGEOSS with training opportunities as part of their annual meetings/initiatives. | WGCapD |
| **CB-24**: Provide training on CEOS Visualization Environment (COVE) | Q4 2018 | WGCapD will develop and deliver one or two webinar sessions on COVE Tool. | WGCapD and  SEO (with support from WGISS) |
| **CB-25**: Work with the Open Data Cube (ODC) team to identify concrete opportunities for collaboration | Q4 2019 | Identify how we can support Open Data Cube users and ways for increasing their capacity for using ODC resources, for instance, develop online help and tutorials on how to:   * install the cube core code, * ingest satellite data into cubes, * connect a user interface, * connect Jupyter notebooks, and then, run applications to create products. | WGCapD and  SEO |
| **CB-26**: Develop methods and guidance documentation for best practices around **institutional capacity development** for GEOGLAM project in the Americas | Q4 2019 | The proposal for ROSES-2016 A.50 GEO Work Programme (NASA Grant), led by Alyssa Whitcraft (point of contact of GEOGLAM in CEOS), to support AmeriGEOSS has been selected. WGCapD will help with the Capacity Building Development plan. | WGCapD and GEOGLAM |



[**PORTAL DO EQUILIBRIUM**](http://www.portaldoequilibrium.com.br/) **and the Atlantic Forest (**[**Pictures**](https://www.google.com.br/search?q=portal+do+equilibrium&client=firefox-b-ab&dcr=0&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwj02cb03-7YAhXJHpAKHUlVCdMQsAQIXw&biw=1280&bih=581&dpr=1.5)**)**

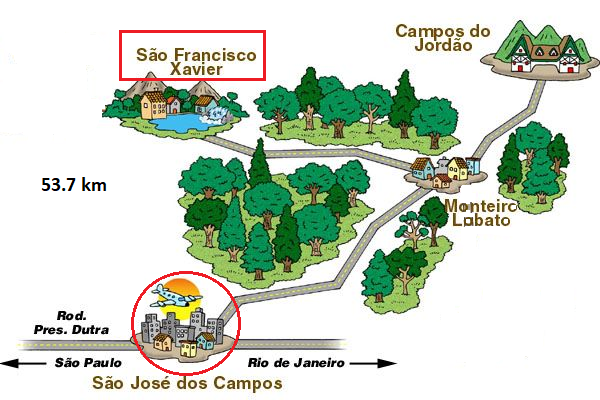
**Portal do Equilibrium** is a 322 km² complex that comprises an Inn, an adventure park and a restaurant. It is located in Sao Francisco Xavier, a small district located 55km far from São José dos Campos. It belongs to the Environmental Protected Area (Federal APA) of Paraíba do Sul River, which includes the tributaries of the river from the Mantiqueira Environmental Protected Area. Moreover, this area is also in the UNESCO Atlantic Forest Biosphere Reserve (Transition Zone - UNESCO 1998). Mantiqueira Mountains preserve one of the most expressive groups of Brazilian Atlantic Forest remaining, one of the most important areas of rainforest preservation in the world. The important thing about this forest remaining is related to the preservation of its flora and fauna, as well as its soil and water. Nowadays, these private forest areas have performed an important role on the preservation of the Atlantic Forest, representing a big portion of the 8% of the remaining forest.

A flora survey has identified 52 of vegetal species that belong to 29 families, for instance:

* *Jussara Palm He*art: currently in extinction, whose origin is the Atlantic Forest, could be found since Brazil’s discovery, from the coast to altitudes higher than 1.000 meters. But now it can only be found in protected areas. It can take 8 to 15 years from its germination till it becomes an adult plant, and from 50 germinated seeds only one will get to the adult stage, and these are the reasons for its extinction in places where it could be found abundantly.
* *Tree Fern*- *Dicksonia sellowiana (endangered)* used in the manufacturing of flowerpots, plates and sticks to support the cultivation of ornamental plants, mainly orchids.
* Pinheiro do Paraná - *Araucaria angustifolia* , light wood, used in lining, lath, furniture, pencil. Its fruit, the "pinhão", is eatable and enjoyed by many species of the fauna, such as the blue jackdaw and the squirrel, great disseminators of this specie. Category: Vulnerable.

The fauna survey has identified, in Portal of **Equilibrium**, 13 species of mammals:

* Puma, Wild Boar, Quati, Wild cat, wild dog, opossum, Sauá, Ape, Cutia, Squirrel and Armadillo (*Tatu galinha*).
* 54 species of birds have been identified, from small birds such as hummingbirds to medium and large size birds such as the *jacu (Penelope)*. These species represent a part of the diversity of birds observed in the Atlantic Forest, which has one of the greatest diversity of birds in the world.



1. **We suggest you wear comfortable clothes, hats, tennis shoes (maybe take some extra clothes in case it rains). Do not forget to bring a repellent and sun block.** [↑](#footnote-ref-1)