**CEOS WGCV #47, Virtual Meeting**

 **Hosted by Webex**

 **July 14 to 17, 2020**

Tuesday 14 July 2020

Attendees:

Ian Lau

Medhavy Thankappan

Cindy Ong

Erin Lynch

Kerry Sawyer

Jason Choi

Chang Yong

Nigel Fox

Albrecht von Bargen

Arundhati

Philippe Goryl

Fernando Camacho

Jean-Christopher Lambert

Michael Cosh

Cody Anderson

Greg Stensaas

Raad Saleh

Akihiko Kuze

Santhi Sree

Kurt Thome

Xiaolong Dong

Bruce Chapman

Jaime Nixon

Peter Strobl

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| **WGCV Business and Meeting Introduction** |
| 14:00 GMT | Chair/Vice Chair welcome, opening & agenda | C. Ong / A. Kuze |
|  | Aims of the meeting: outlineRound table introductionsRundown of program/agenda |  |
| 14:10 | Overview on WGCV of continuing and new workplans | Cindy Ong |
|  | Cindy Ong ran through the ongoing activities.CIMIX and Biomass protocol near completionCV-3 not complete- moved to May 2021 due to Covid-19 (from Albrecht)Five new activities -  |  |
| 14:20 | Introduction of incoming vice chair | Cindy Ong |
|  | Cindy Ong introduced new Vice-Chair candidate-Philippe Goryl.Thank you from Philippe.Outline of meeting rules. |  |
| 14:25 | CEOS 2020-2022 workplan | Kerry Sawyer |
|  | NOAA, CEOS Exec Officer:CEOS work plan and working teams.CEOS services being taken out.140 deliverables, 54 existing, 86 new.Renaming/renumbering convention has been updated.RadCalNet needs explanatory paragraph.-Cindy will take this actionEncouraging everyone to use online tracking tool.WGCV is building block for data, Draft of Workplan for review 9th July 2020.Online tracking tool is being updatedVirtual endorsement of Work Plan to CEOS Principals 16th July 2020 |  |
| 14:40 | Q&A |  |
|  | Cindy: Steven wanted comprehensive info – like FTE commitment from each organisation. Are we still doing this?Kerry: This has been removed from the Online Tracking Tool. Focus on delivering, rather than knowing what resources used to get it done.Nigel: clarification of RadCalNet? What it is or what is happening going forward?Kerry: Both, and what it provides. |  |
| **Sub Group and Task Reports** |
| 14:50 | The Land Product Validation Sub Group highlights, progress and updates on the Biomass Validation and Vegetation Surface Reflectance Inter-comparison Tasks | Fernando Camacho |
| (14:40) | LPV progress: Objectives: Coordinate global land products from RS data. Increase quality and efficiency of global validation.10 Focus areas: 2 or 3 experts per area.Michael Cosh USDA vice chair. Acknowledge Ian Grant’s passing in November 2019. Surface radiation protocol.Recently updated validation hierarchy -Stage 0-4. 2 main criteria were added – stage 3 community agreed protocols, stage 4 fiducial reference measurements.LPV validation framework well-established.LPV strategy 2019-2022 from Milan 2019. Development of good practices, Improvement of ground references, Validation and Intercomparison, Communications.Develop Good Practices: Biomass Protocol in final stages of editing before review. Ready before end of the year.Soil moisture product validation – paper published July 2020, protocol almost ready for review. Improving Ground references: March 2020 workshop in Canberra. Biomass reference sites, Super-characterised sites development. Collaboration with GBOV and TERN. Need to expand spatial coverage of supersite network into Asia and Africa and South America.NordSpec network – Sweden and Finland sites explored.Validation and Intercomparison: Many exercises performed by LPV; few examples on Phenology, Albedo and LST were shown. New Workplan: 2020-2022Surface reflectance intercomparison exercises, ESA FRM4Veg. Starting 2021. Round robin, 2 international workshopsBRIX-2 intercomparison of algorithms, \_African SitesCommunications: Bi-monthly LPV telecon notes are now available in the LPV website.  |  |
| 15:10 | The Infrared Optical Visible Sensors Sub Group highlights | Nigel Fox |
| (15:05) | March 2019 Meeting last in person meetingIVOS 32 postponedSITSCOS Sept 20194 Virtual meetings in March 2020Geospacial quality MTFARD discussions to commercial sectorPICSCAR activity by Patrice Henry – Portal, RadCalNet – Publication October 2019. Shutdown for 4 months due to Covid-19. Reprocessed to V3 of all data. More data, faster data, 416 registered users, +50 per month.2020-2021 2 new sitesFormally ask WGCV acceptance of process for new sites - review by panel New site at Baotou sandy site. All documents have been submitted to portal.During review, data by site, consistent to Sentinel-2. Some issues with spectrometer – temperature affected, improved consistency when cold data was removed. Some seasonal variation- std dev, thus increase in uncertainty requested.May need to adopt assessment process to improve efficiency – a proposal being developed.SITSCOS Sept 2019 hosted by UKSA at NPL. – report ASIC3 being written- high level document. Special issue in Remote Sensing, due July 2020, Path towards SI traceable……CalVal portal and Comms:Emerging new activities: 2021/2022 FRM4STS 5- surface temperature comparisonsOcean colour CEOS FRM4SOC exercise 2021/2022/ EUMETSAT funding?IVOS expanding, projects working effectively with motivated champions.Covid-10 has delayed progress and commsWork to support commercial ARD sector and LSI-VC in terms of relevant requirementsWorking towards integration of cal/val methods (weighted by uncertainty) to develop optimal strategies for interoperability and prospect space based reference sensors.Need to bring on space agencies going forward. |  |
| 15:30 | The Atmospheric Composition Sub Group highlights | Jean Christopher Lambert |
| (15:25) | GHG measurement networks for L2 satellite validationGHG cal val roadmap towards global stock take 2023. NDACC FTIR-(MIR) - auto, Bruker 120HRTCCON (FTIR-NIR), Bruker 120HR/125HRCOCCON Bruker EM27/SUN FTIR (NIR) in developmentImproving retrieval algorithms, Can use Copernicus Atmosphere Monitoring Service (CAMS) to get data……WGCV/ACSG .AC-VC linkageACVC 16 in June 2020 (Virtual meeting).Air Q: aerosols,Air Q: trace gassesGHGO3Air Q GHG co-benefits, ACVC 17 BIRA-IASB host in Brussels in May/June 2021 (TBC)CEOS VC-20-01 Tropospheric Ozone Activity – validation and harmonization by end of 2022. Coordinated with TOAR-II satellite WGIGAC TOAR- II Tropo ozone assessment report …..Cross domain Cal Val approaches for Copernicus:….. | Air  |
| 15:50 | Q&A |  |
|  | Peter S To Fernando: Consistency defined in Level 3 and how is it validated?F: Each focus area group defines it and each group propose different ways for assessing spatial and temporal consistency. Examples can be found in the LAI or Albedo validation protocols. Arundhati has sent Fernando LPV Biomass supersites from India to evaluate. Cindy: we need to tighten definition of supersite.Jason Choi to Nigel: How big is the sandy site, and is it okay for MODIS?Nigel: Characterised for 300x300m site, desert. Similar characteristics around it, so it shouldn’t have adjacency. Philippe: Editorial board for calval portal is very welcome.Can we get sample or test data over Baotou?Nigel: Yes, it will be on the site. We need to vote on it on Friday. |  |
| 16:10   Adjourn  |