**51st Meeting of the CEOS Working Group on Calibration & Validation (WGCV)**

**DECISIONS**

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| **Decision 01** | It was agreed that voting rights for future WGCV Chair selections will be assigned if a person/agency has attended two out of the last three WGCV Plenary meetings, with at least one of those being in person attendance. It was clarified that each vote is per agency, not person, so the vote can be earned by and delegated to another agency representative. |
| **Decision 02** | Cody Anderson (USGS) was confirmed as the nomination for WGCV Vice Chair for 2023-2024 and the subsequent Chair term of 2025-2026. The nomination will be presented to the 2022 CEOS Plenary for endorsement by CEOS Principals. |
| **Decision 03** | The Atmospheric Composition Subgroup (ACSG) nominated Jean-Christopher Lambert as the new ACSG Chair and this was agreed by the WGCV Plenary. |
| **Decision 04** | It was agreed that there is no immediate need to make changes to existing CEOS-ARD review panel membership, given that no assessments have been submitted at the Target level, and none are expected to be forthcoming in the near-term. Medhavy Thankappan will however seek to define a SAR peer review panel in coordination with the WGCV SAR Subgroup. |
| **Decision 05** | In addition to Medhavy Thankappan and the new recruit at Geoscience Australia (engaged to support Medhavy with CEOS-ARD peer reviews) it was agreed that having additional CEOS-ARD POCs from WGCV is desirable for redundancy and agility. Having a representative from the WGCV SAR Subgroup for SAR assessments would be desirable. |
| **Decision 06** | It was agreed in principle that WGCV should consider the development of an assessment framework for FRMs. |
| **Decision 07** | WGCV-52 will be held 5-9 June 2023 at ESA ESRIN. |

**ACTIONS**

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| **WGCV-51-ACT-01** | All to consider participation in the OGC ARD SWG. | **CLOSED** |
| **WGCV-51-ACT-02** | WGCV Chair / Vice Chair / Secretariat to flag WGCV interest in nominating a representative to the eventual Task Teams on ‘New Space’ and Biodiversity (Ecosystem Extent). | **2022 CEOS Plenary** |
| **WGCV-51-ACT-03** | WGCV Chair, Vice Chair and Secretariat to prepare an update of the WGCV Terms of Reference that clarifies the eligibility criteria for voting for WGCV Vice Chair nominations, consistent with the agreement detailed in Decision 01 above. | **Documents for Plenary Endorsement Due Nov. 15** |
| **WGCV-51-ACT-04** | WGCV Secretariat to ensure the leadership of the Atmospheric Composition Subgroup (ACSG) is updated on the [CEOS website](https://ceos.org/ourwork/workinggroups/wgcv/subgroups/acsg/), WGCV membership and voting list, mailing lists, etc. | **COMPLETED** |
| **WGCV-51-ACT-05** | WGCV Secretariat to consider the modes of communicating different types of WGCV information, and to consider approaches for maintaining a database of official communications. | **WGCV-52** |
| **WGCV-51-ACT-06** | Fabrizio Niro to seek clarification from the BRIX-2 leadership team as to whether there is anything the WGCV Chair/Vice Chair/Subgroup leads can do to try to revitalise participation in the BRIX-2 activity. | **COMPLETED** |
| **WGCV-51-ACT-07** | WGCV Secretariat to organise a teleconference between the WGCV, EAIL, and CEOS SEO teams to discuss EAIL opportunities for WGCV (potential projects, objectives, datasets, capabilities/tools) and connections with the WGCV Cal/Val Portal. Long term sustainability of EAIL should be a point of discussion. | **December 2022** |
| **WGCV-51-ACT-08** | WGCV team to consider CEOS EAIL opportunities for WGCV (e.g., potential projects, objectives, datasets, capabilities, tools) and bring these ideas to the teleconference referenced in WGCV-51-ACT-07. | **Before call referenced in WGCV-51-ACT-07** |
| **WGCV-51-ACT-09** | Nigel Fox and Paolo Castracane to update the wording on the Cal/Val Portal regarding solar irradiance spectrum references. | **WGCV-52** |
| **WGCV-51-ACT-10** | Nigel Fox and Paolo Castracane to investigate the creation of a private IVOS section of the Cal/Val Portal that would allow for peer review by IVOS members of proposed radiometric calibration methodologies and associated documentation/uncertainties before publishing to a wider audience. | **WGCV-52** |
| **WGCV-51-ACT-11** | Philippe Goryl, Cody Anderson, Medhavy Thankappan and the WGCV Secretariat to schedule a discussion around identifying additional WGCV POCs for CEOS-ARD peer reviews. | **December 2022** |
| **WGCV-51-ACT-12** | Philippe and Nigel to present to WGCV-52 their findings in relation to Fiducial Reference Measurement (FRM) assessments, definitions, and the potential role for WGCV, so that a way forward for a possible FRM assessment framework in WGCV can be discussed. | **WGCV-52** |
| **WGCV-51-ACT-13** | Prepare a dedicated statement/area on hyperspectral/imaging spectroscopy/spectral radiometry for the WGCV Cal/Val Portal as a means for linking and or pointing to information, guidelines, networks, tools, etc. on this topic. | **WGCV-52** |
| **WGCV-51-ACT-14** | Cindy Ong and Philippe Goryl to coordinate a response to Ben Poulter (NASA) regarding his question on hyperspectral/imaging spectroscopy/spectral radiometry cal/val reference site instrumentation:  *“...the need for guidance for hyperspectral cal/val reference site instrumentation. If CEOS could provide a document that described instrumentation for land, coastal, open ocean, types of instrumentation that would be relevant across missions (EnMAP, DESIS, PRISMA, SBG, CHIME, HISUI, etc) this would be really useful for having a global coordinated network.”* | **December 2022** |
| **WGCV-51-ACT-15** | Matt to raise with the CEOS MIM Database team the idea of including (in future) Maturity Matrix information alongside the dataset records. | **December 2022** |
| **WGCV-51-ACT-16** | Nigel to share the IVOS presentation on per-pixel uncertainty and the Cal/Val Maturity Matrix. | **October 2022** |
| **WGCV-51-ACT-17** | Nigel/Cody to consider the best way to proceed with engaging WGISS in the discussion around per-pixel uncertainty and reporting – whether this be an invitation of a few key WGISS people to an already planned workshop or another dedicated meeting. | **October 2022** |
| **WGCV-51-ACT-18** | WGCV Chair and Vice Chair to work with Nigel, Medhavy, Peng and others as interested to:   * Consult with agencies operating/planning SITSatT missions regarding the idea to establish a CEOS team (exact form/governance TBD) that will work together on matters related to SITSats (e.g., collaborative activities, future developments, mission coordination, new technologies and bands, forum for international coordination, exploitation of data, ensure a system approach rather than independent missions,; along the lines of a Virtual Constellation). * Prepare an input for CEOS Plenary (for information) presenting the concept and seek feedback from CEOS leadership on the best way forward organisationally. | **CEOS Plenary 2022** |
| **WGCV-51-ACT-19** | WGCV Chair to report to CEOS Plenary on the establishment of a joint LPV-IVOS working team under WGCV that is taking forward the exploration of a network of TIR cal/val sites that will provide TOA spectral brightness temperature, noting that this is in response to the CNES 2022 CEOS Chair priority and is being undertaken to support high-resolution TIR missions that are forthcoming from a number of CEOS Agencies. | **CEOS Plenary 2022** |
| **WGCV-51-ACT-20** | Matt and Paolo to increase the number of links between the main ceos.org website and the Cal/Val Portal. | **WGCV-52** |
| **WGCV-51-ACT-21** | Paolo to work with the GISTDA team to include THEOS-1 calibration site data on the Cal/Val Portal. | **WGCV-52** |
| **WGCV-51-ACT-22** | Philippe Goryl, Jean-Christopher Lambert and Paolo Castracane to discuss additional atmospheric composition guidance for the Cal/Val Portal. | **WGCV-52** |