

ICWG key recommendations to CGMS plenary

Presented to CGMS-52 Plenary Session, agenda item 3.2

Martin Stengel, DWD and Kerry Meyer, NASA co-Chairs
Andrew Heidinger, NOAA, Rapporteur

Summary of icwg-3

ICWG-3 was held in person, with a virtual option, at EUMETSAT, Darmstadt, Germany, 26-28 February 2024. The local organizer was Alessio Bozzo (EUMETSAT), and the meeting was co-chaired by Martin Stengel (DWD) and Kerry Meyer (NASA GSFC). A total of 115 people registered to attend (88 in person, 27 virtual). The program featured 54 oral presentations and 16 poster presentations, with talks organized into the following sessions:

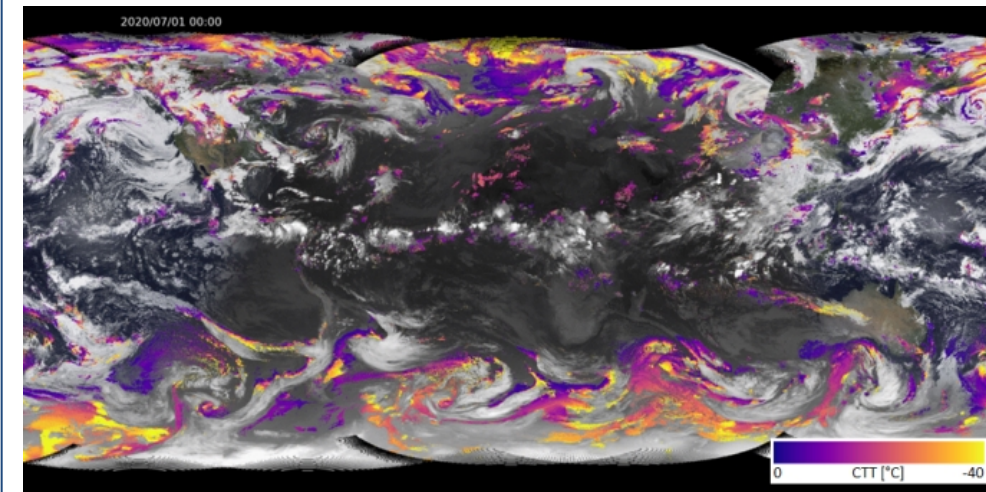
- Programmatic/overview (5 talks)
- Climate data records/analysis (6 talks)
- Science analysis/applications (6 talks)
- Geo-ring and assessment discussion (5 talks)
- Retrieval/product development and evaluation (17 talks)
- Severe weather and lightning (4 talks)
- New missions (11 talks)



Recommendation #1: Continued support from CGMS agencies for their algorithm teams' involvement in the cloud property intercomparison, which has been identified as a high priority activity of ICWG and is seen as a key pathway to evaluate and provide feedback on the ISCCP-NG/GeoRing development activities.

- An intercomparison/assessment of contributed cloud products is a high priority for the next ICWG-4 and **it was decided that this effort will use the new ISCCP-NG L1G dataset as the common input for all participating algorithms.**
- The use of the ISCCP-NG L1G serves a two-fold purpose – it provides a common framework for evaluating a variety of cloud algorithms, and it enables an evaluation of the L1G datasets themselves via assessments of retrieval performance on these inputs. The latter provides a pathway for ICWG to provide feedback to the ISCCP-NG/GeoRing development effort.

AI/ML examples of : Identifying super-cooled liquid clouds by using ML to retrieve cloud phase and cloud top temperature using ISCCP-NG (Martin Stengel)

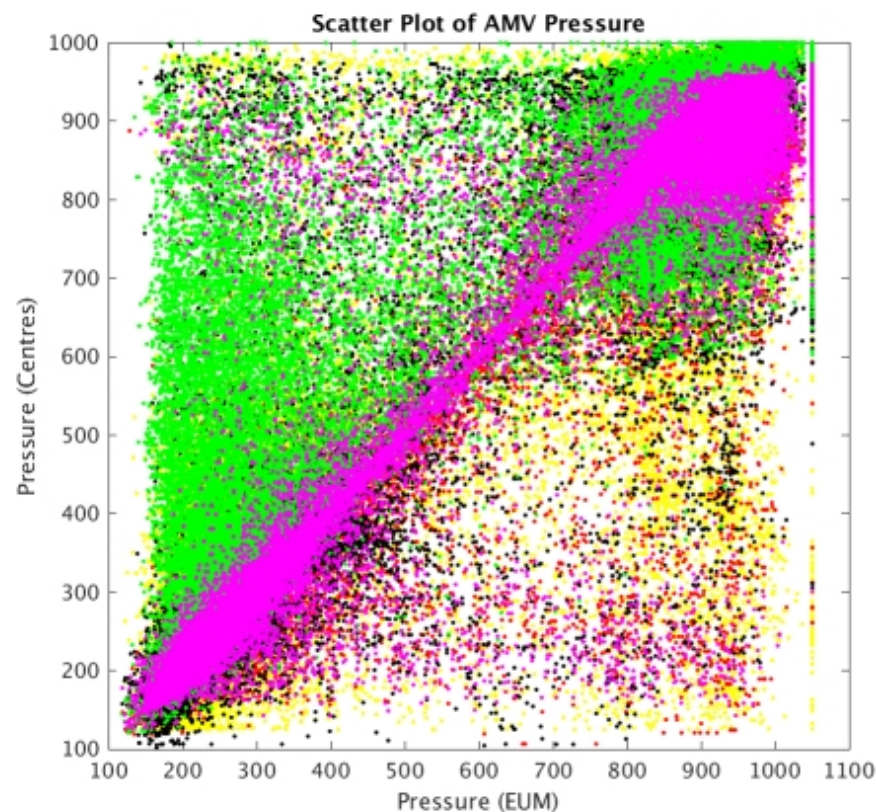


Recommendation #2: Encourage collaboration between IWWG and ICWG on identifying ISCCP-NG golden days that can make available cloud height retrievals for evaluation by the AMV community.

ICWG agreed to coordinate with IWWG on the ISCCP-NG cloud property intercomparison planned for ICWG-4, specifically to include in the intercomparison IWWG golden days such that cloud-top properties can be provided to the AMV community for evaluation.

Example of IWWG and ICWG Collaboration:

- The distribution of AMV heights is highly variable between the different centers for collocated AMVs due to different AMV height algorithms.
- Best agreement along the diagonal from EUMETSAT, NWCSAF and NOAA.



Steve
Wanzong,
UWWG

Thank You