ICWG-2 Workshop Aims

Rob Roebeling, Andrew Heidinger
ICWG Co-chairs

Coordination Group for Meteorological Satellites

Meeting Organization

Thank you All!

Local Host: Ralf Bennartz

Meeting Coordinator: Maria Vasys

ICWG co-chairs: Andrew Heidinger, Rob Roebeling (Retiring), Karl-Goran Karlsson (New)

CGMS Representatives: Next Speakers

CGMS Rapporteur: Dong Wu

Topical Groups Leads: Andi Walther, Phil Watts, Bryan Baum, Mike Foster, Michael Pavolonis, Dong Wu, Steve Wanzong, Karl-Goran Karlsson, Ralf Bennartz

Coordination Group for Meteorological Satellites

CGMS

ICWG Terms of Reference with CGMS

1. foster commonality for level-2 and level-3 operational cloud parameter retrievals and/or products;

2. contribute to the assessment of differences between level-2 cloud parameter retrievals;

3. contribute to the validation of both level-2 cloud parameter retrievals and their error estimates;

4. identify and address research questions on level-2 cloud parameter retrieval algorithms and level-3 aggregation methods;

5. contribute to process studies of clouds and/or convection;

6. contribute to the definition of new space borne observation capabilities for cloud parameter retrievals and validation;

7. support and stimulate training of the operational and scientific community;

8. enhance the communication in this field and develop international partnerships;

Main Recommendations of the ICWG-1

- **Facilitate level-2 cloud assessments** for near-real-time applications and level-3 cloud assessments for regional and climate applications.
- **Standardize requirements and terminology for cloud products**
- Enhance use of satellite **cloud products in tandem with non-satellite data**
- **Stimulate dialogue with cloud product users**, such as the IWWG, and integrate their requirements in the cloud retrieval algorithms
- Use heritage sensors to develop **cloud climate data records (CDRs)** that better characterize calibration errors, dependence on ancillary data, and orbital drift
- Generate sub-sampled level-1 products from historical, present, and future satellite missions to **facilitate CDR reprocessing**
- Include **uncertainty estimates and associated quality indicators t**o level-2 cloud properties, and evaluate these in future ICWG assessments
- Maintain use of current, and plan for future, space borne lidar/radar **measurements for long-term satellite cloud validation**

ICWG-1
17-20 May 2016, Lille, France, Europe
Organized by Université de Lille 1 - Sciences & Technologies, France
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Meteorological Satellites

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ICWG Sub-Working and Topical Groups

- **Algorithms**
  - Retrieval Methods (Phil Watts & Bryan Baum)
  - Cloud Masking (Karl-Goran Karlsson)
  - Microwave (Ralf Bennartz)
- **Assessments**
  - Cloud Product Intercomparisons (Andi Walther)
- **Climate Applications**
  - Climate Applications (Mike Foster)
- **Weather Applications**
  - Severe Weather (Mike Pavolonis)
  - Winds (Steve Wanzong, Dong Wu)
- **International Collaboration**
 - International Collaboration (Dong Wu, Andrew Heidinger)

Sub-Working Groups are permanent

Topical Groups can modified based on ICWG feedback

Andi Walther is leading the Intercomparisons Topical Group.

Thank you to all data submitters!

Please talk to Andi and/or send a representative to that breakout. We need participation in that group to keep the inter-comparisons relevant.
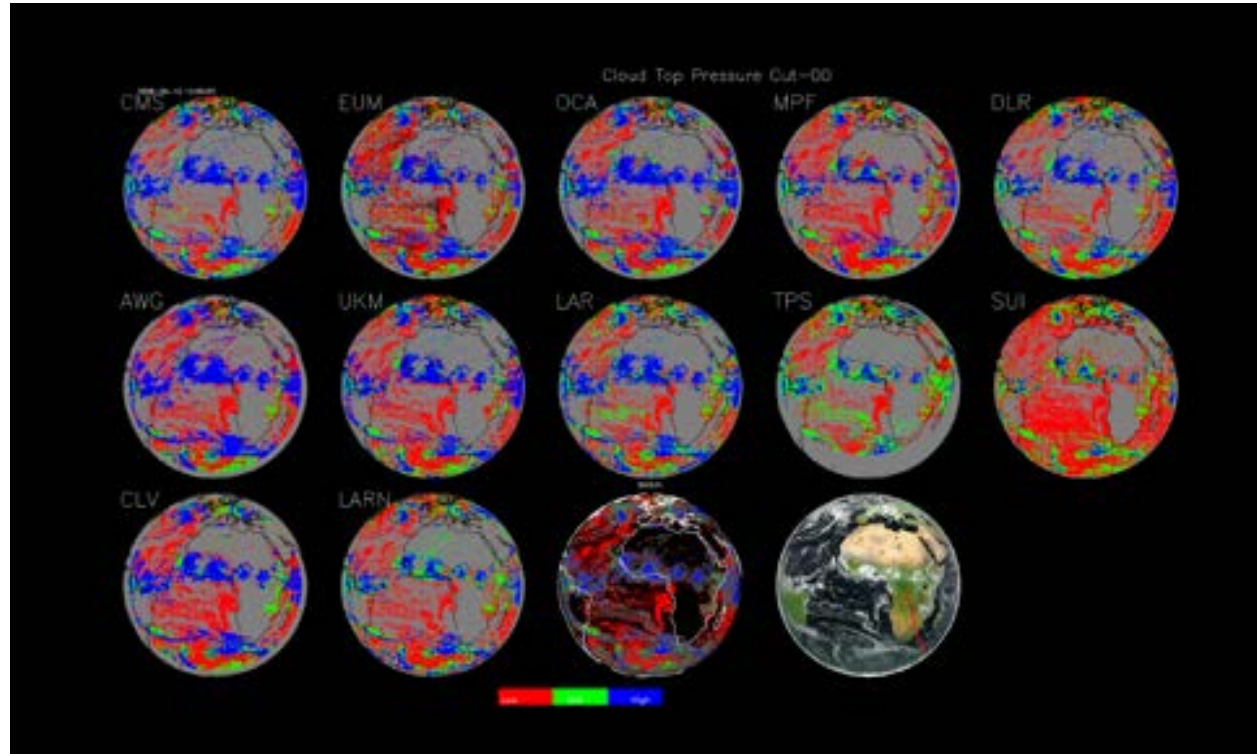
Example of the "CREW"-like analysis from Andi Walther's Tools

Workshop Wishes

- Active participation in Sessions and Topical Groups
    - Suggest modifications for ICWG-3
    - Help make the intercomparison data and tools relevant
- Help ICWG respond to existing CGMS actions.
- Help ICWG come up with new recommendations to the CGMS for the ICWG or other WGs.
- Help forge new collaborations between the agencies
- Enjoy the varied program of speakers
- Enjoy Madison

Enjoy the Workshop

Thank you EUMETSAT and NOAA for the sponsorship!

Agency Representatives

Kerry Meyer (NASA, USA)

Stefan Bojinski (WMO, Switzerland)

Sung-Rae Chung (KMA Korea)

Lu Feng (CMA, China)

Andrew Heidinger (NOAA, USA)

N. Puviarasan (IMD, India),

Rob Roebeling(EUMETSAT, Germany)

Alexei Rublev (Roshydromet, Russia)

Daisaku Uesawa (JMA, Japan)