

Second Announcement

3rd Workshop CGMS International Cloud Working Group (ICWG) (supported by EUMETSAT)

When: **26 - 28 February 2024**

Where: **EUMETSAT HQ, Darmstadt, Germany**



3rd Workshop

CGMS International Cloud Working Group

From 26 to 28 February 2024 the 3rd Workshop of the International Cloud Working Group (ICWG) will be held at EUMETSAT HQ in Darmstadt, Germany. The workshop aims at enhancing cloud retrieval schemes and their applicability and a better characterization of their validity.

We invite experts working with cloud parameter retrieval schemes from passive imagers, passive microwave, and lidar and radar observations, and lightning sensor applications to participate in the workshop and to contribute to the workshop's cloud parameter inter-comparison and validation activities. Information on registration, abstract submission and accommodation will follow in the Second Announcement.

Background and content

The workshop series of the International Cloud Working Group (ICWG) within the Coordination Group for Meteorological Satellites (CGMS) is a continuation of four earlier workshops that were organized under the name of Cloud Retrieval Evaluation Workshops (CREWs). CREW meetings were held in Norrköping, Sweden (2006), Locarno, Switzerland (2009), Madison, WI, USA (2011), and Grainau, Germany (2014). As successors, ICWG-1 was held in Lille, France (2016) and ICWG-2 was held in Madison, WI, USA (2018). An integral part of most past workshops was discussions on inter-comparison and validation studies done with data from a common database (incl., SEVIRI, MODIS, AVHRR, POLDER and/or AIRS). In this way knowledge was gained on the behavior of the different retrieval schemes over different cloud conditions.

The main recommendations of the last ICWG Workshop (ICWG-2) in Madison, USA, were as follows:

- To continue operating conically-scanning passive MW sensors in an early afternoon orbit as well as in a dusk/dawn orbit in order to maintain this unique long-term series;
- To establish a topical group on the collaboration with the International Precipitation Working Group (IPWG);
- To encourage the continuation of A-train-like observations (passive+active) in the future;
- To consider introduction of multi-sensor (satellite and ground-based measurements) applications for convective Nowcasting when developing and updating product requirements;
- Participate in the comparison of techniques to be used in the International Satellite Cloud Climatology Project Next Generation (ISCCP-NG) project under the direction of the GEWEX Data and Analysis Panel;
- To extend the Golden Day database with GOES 16/17 data (in coordination with IWWG) and with possible inclusion of simultaneous measurements from the Aeolus wind profiler Aladin;
- To consider (if funding allows) introducing automatic data submission and data evaluation in the future for the inter-comparison of cloud datasets;

During the pandemic, an intersessional ICWG meeting was held virtually, with the summary report available here:

https://www.icare.univ-lille.fr/hosted-content/crew/images/9/9e/Report_ICWG-3_Interim_Meeting_29-30_September_2021.pdf

More information on past meetings can be found here:

<https://www.icare.univ-lille.fr/hosted-content/crew/index.php/Meetings>

In the framework of ICWG-3, we organize semi-permanent Sub-Working Groups that provide the focus and continuity necessary for addressing past and future recommendations and key research topics. Furthermore, a number of topical groups are defined within ICWG, which have been used as forums for in-depth discussion on specific scientific/development topics. These topics usually are reflected in the session schedule of ICWG meetings, which will also be the case for ICWG-3.

Tentative list of topics/sessions for ICWG-3:

- **Algorithms:** including single and multiple sensor retrievals, such as, synergistic use of cloud products from microwave and visible infrared imager, radiative transfer modelling, methods to propagate and provide uncertainty estimates, cloud detection advances. **A new aspect here will be first results from MTG FCI.**
- **Assessments:** including assessment of level-2 products from polar orbiting and geostationary satellites for golden days. **New aspect here will be assessments of ISCCP-NG geo-ring cloud products.**
- **Climate Applications:** including assessments of level-3 climate data records of cloud parameters, aggregation methods, link to international activities. **New aspect here might be using retrieved cloud properties for process studies and model evaluation.**
- **Weather Applications:** including the use of cloud products in numerical weather prediction, atmospheric motion winds, precipitation retrievals, severe weather and other applications of high spatial and temporal resolution cloud products from advanced geostationary imagers
- **Lightning Applications:** including introduction to theory and technology, presentation of results from GOES-16/17 data and discussion of methods for linking lightning data to Nowcasting and Severe Weather applications. **This topic will include first results from MTG LI.**

We welcome submission of all papers that broadly fit into these topics. More details on the abstracts submission below. The assessments topics will this time focus on a planned geo-ring assessment. More details will be issued in the 3rd Announcement and/or during the ICWG-3 meeting.

Registration and abstract submission

Please go to the event's website:

<https://www.eventsforce.net/icwg-3>

1. **Register for the workshop under 'Registration'**
2. **To submit an abstract, go to 'Submit the abstract' and click on 'Request login details' and then enter the email you used for registration. You will receive an email with a direct link to the abstract submission procedure.** When submitting your abstract you don't have to choose a session. We will sort presentations afterwards.

There is neither an abstract submission fee nor an attendance fee.

Important deadlines

Abstract submission deadline: **30 November 2023.**

Registration deadline: **5 February 2024**

Accommodation and Workshop Venue

Information about the EUMETSAT headquarters and area hotels is available on the event's website:

<https://www.eventsforce.net/icwg-3>

Note: No block bookings have been made. Please book your accommodation in good time.

Further ICWG Information

Program Committee for ICWG-3

TBD

Co-Chairs:

Martin Stengel, DWD: martin.stengel@dwd.de
Meyer, Kerry G., NASA: kerry.meyer@nasa.gov

Rapporteur to CGMS:

Andrew Heidinger, NOAA: andrew.heidinger@noaa.gov

Local ICWG-3 organization:

Alessio Bozzo, EUMETSAT HQ, Darmstadt: alessio.bozzo@eumetsat.int
Bertrand Fougne, EUMETSAT HQ, Darmstadt: bertrand.fougne@eumetsat.int

For Your Information

Following the ICWG-3 Meeting, a 2-day ISCCP-NG workshop will be hosted by EUMETSAT in the same venue. Corresponding information will be distributed separately. The ISCCP-NG workshop is by invitation only.