climate change initiative

→ CMUG NEWSLETTER

CMUG News & Science Highlights

- CMUG held its CCI+ Phase 2 Kick-off Meeting on 18th September 2023. Phase 2 will run for three years (2023-2026) and include contributions to ESMValTool, to allow CCI data to be easily used in model comparisons, and several cross-ECV scientific Studies, with topics including machine learning, vegetation phenology, land cover, ocean biogeochemistry, clouds and aerosols, snow dynamics, ice sheets, and wetland methane emissions.
- CMUG welcomes new partners Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC) who bring expertise in the use of land surface models and vegetation; Danish Meteorological Institute (DMI) who provide expertise in ice sheets and polar meteorology; and NCEO (University of Leicester and University of Edinburgh), experts in GHG.
- CMUG's next Integration Meeting will be held on 8-9th November 2023, following the CCI Colocation Meeting. These will be held at ESA's new ECSAT conference facility, Harwell, Oxfordshire, UK.
- The CMUG website has been updated to reflect the next project phase. Study descriptions have been added for each Study here. An updated overview of the CMUG team can be found here.

In this issue:

Upcoming: CMUG Integration Meeting November 2023

CMUG is organising its next Integration Meeting on 8-9th November 2023 at ECSAT, Harwell, UK. The ESA web page for this event, with further details on its location, can be accessed here. CMUG's Integration Meeting will have hybrid capabilities via Webex.

The Integration Meeting will follow the CCI Colocation Meeting.

Day 1 (8th) will begin in the afternoon and consist of several sessions on observation and model intercomparison. Day 2 (9th) will consist of an official introduction to the Integration Meeting and an overview of CMUG CCI+ Phase 2 with a presentation of CMUG plans for this phase. Then there will be a breakout session for Science Studies to hold kick-off meetings attended by relevant ECV projects followed by a discussion on linking observations with models in CLIMATE-SPACE and finally concluding remarks.

The agenda is presented on the following page and can also be directly accessed here.

Previous: CMUG Integration Meeting October 2022

CMUG's 2022 Integration Meeting was held on 24-25th October 2022 in Italy. The newsletter for that meeting can be found here and the event webpage here.

CCI Colocation Meeting 7-8th November 2023

Agenda webpage link

ECSAT, Harwell, Oxfordshire, UK

Tuesday 7 November

09:00-09:30 Registration at ECSAT Conference Centre
09:30-12:30 Session 1: Opening and Welcome
12:45-14:00 Lunch
14:00-17:30 Session 2: Cross-ECVs
17:30 Welcome Drinks reception at Oxford University Museum of Natural History

Wednesday 8 November

09:30-12:30 Session 3: Emerging Topics
12:30-14:30 Lunch

CMUG Integration Meeting First Day – 8th November 2023

Agenda webpage link

ECSAT, Harwell, Oxfordshire, UK

Wednesday 8 November

14:30-17:30 Session 4: Joint CCI / CMUG Session: Observations / Model Intercomparison

- ESMValTool – Latest Updates
- ESA Approach to Obs4MIPs
- CMUG Work Package on Future Evolution of Obs4MIPs
- Recent Developments in Cloud Computing for Climate Observations
- CMIP/CORDEX Discussion

17:30-20:30 Poster Session

CMUG Integration Meeting Second Day – 9th November 2023

Thursday 9 November

09:00-09:30 Introduction to Integration Meeting
09:30-10:00 Overview of CMUG CCI+ Phase 2 and Presentation of CMUG Plans for CCI+ Phase 2

Breakout Sessions by Scientific Study:

10:00-11:00

- WP5.1: Machine Learning to Advance Climate Model Evaluation and Process Understanding
  - ECVs required to attend: Cloud, SST, WV, LST, SM, LC, Snow, Permafrost
- WP5.8: Using Machine Learning to Evaluate and Understand our Capability to Model Tropical Wetland Methane Emissions
  - ECVs required to attend: GHG, SM, LST, LC

11:00-12:00

- WP5.3: Impact of Integrating CCU LC in the ISBA Land Surface Models
  - ECVs required to attend: LC, Snow, SM, LST
- WP5.6: Snow Dynamics Impacts on Temperate / High Latitude Climate
  - ECVs required to attend: Snow, LC, Fire, AGB
- WP5.7: Atmospheric Drivers and Feedback Processes Affecting the Greenland and Antarctic Ice-sheets in Observations and Regional Climate Models
  - ECVs required to attend: Ice Sheets (Greenland and Antarctica), LST, WV, Cloud

12:00-12:30 Discussion on Linking Observations with Models in CLIMATE-SPACE
12:30-13:00 Meeting Close

CMUG Key Contacts per CMUG Partner

Met Office
- Amy Doherty (Project Manager)
- Richard Jones (Science Lead)
- Hannah Griffith (Comms)
- David Ford (Ocean biogeochemistry)
- Debbie Hemming (Vegetation phenology)
- Rob King (Vegetation phenology)
- Nic Gedney (Methane emissions)

DLR
- Axel Lauer (ESMValTool / Cloud and aerosols / Machine learning)
- Lisa Bock (Machine Learning)
- Veronika Eyring (Machine learning)

ECMWF
- Angela Benedetti (Cloud and aerosols)
- Kirsti Salonen (Cloud and aerosols)

DMI
- Shuting Yang (Ice sheets)
- Ruth Mottram (Ice sheets)

BSC
- Pablo Ortega (Ocean biogeochemistry)
- Jeronimo Escribano (Cloud and aerosols)

UKRI-STFC (CEDA)
- Alison Waterfall (Obs4MIPs)

IPSL
- Philippe Peylin (Snow dynamics)
- Catherine Ottle (Snow dynamics)

Météo France
- Jean-Christophe Calvet (Land surface data in ISBA model)

SMHI
- Ulrika Willén (Ice sheets)

CMCC
- Daniele Peano (Vegetation phenology)

NCEO (University of Leicester)
- Robert Parker (Methane emissions)
- Cristina Ruiz Villena (Methane emissions)

NCEO (University of Edinburgh)
- Paul Palmer (Methane emissions)