

climate change initiative

→ CMUG NEWSLETTER

October 2024

Recent CMUG News & Science Highlights

- CMUG held its second Climate Science Working Group (CSWG) meeting on 4th June focusing on the science study 'Machine Learning to Advance Climate Model Evaluation and Process Understanding' (WP5.1) which is led by Lisa Bock from DLR.
- CMUG held its third CSWG meeting on 5th September focusing on two science studies, 'Impact of Integration CCI Land Cover data in the ISBA Land Surface Model' (WP5.3) led by Jean-Christophe Calvet from Météo France, and 'Snow Dynamics Impacts on Temperate / High Latitude Climate' (WP5.6) led by Amélie Cuynet and Catherine Ottlé from IPSL.
- Science study WP5.5 (Clouds and Aerosols Analysis) have provided scientific results (as of July 2024) which can be accessed on the CMUG website [here](#).

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Upcoming: Integration Meeting, October 2024

CMUG is organising its next Integration Meeting on 16th October 2024 at ECSAT, Harwell, UK. The ESA webpage for this event, with further details on its location and how to register, can be accessed [here](#). CCI's Colocation Meeting will follow the Integration Meeting on 17-18th October, further details are given at the link above.

The CMUG Integration Meeting, on 16th October, will begin with presentations from all CMUG project work packages in the morning. This will showcase how CCI ECV datasets are being used in exciting science studies and being made available to wider audiences through the cutting-edge model evaluation tool [ESMValTool](#). The afternoon will then consist of a CMUG-CMIP session with presentations including topics such as observation requirements from the modelling community and the role of observations in CMIP7. This session will include breakout sessions with time at the end to feed back to the group. The day will conclude with a poster session and drinks reception at the ECSAT conference centre.

Previous: CSWG Meetings

CMUG's previous newsletter was circulated ahead of the CSWG meeting in March 2024. The newsletter for that meeting can be found [here](#).

CMUG Integration Meeting, October 2024Wednesday 16th October, 09:00-18:30 UK Time (GMT)**Agenda** (GMT)

- 09:00-09:30 Registration & Networking
- 09:30-09:35 Opening & Welcome (Susanne Mecklenburg, ESA)
- 09:35-09:45 CMUG Introduction & Status (Amy Doherty, Met Office)
- 09:45-11:00 CMUG Science Studies (see 'Study' tab on webpage [here](#) for study details)
- 11:00-11:30 *Coffee Break*
- 11:30-12:30 CMUG Science Studies continued
- 12:30-14:00 *Lunch & Posters Put on Display*
- 14:00-14:10 Welcome to CMUG-CMIP Session (Eleanor O'Rourke, CMIP IPO)
- 14:10-14:35 Observation Requirements from the Modelling Community (Amy Doherty, CMUG & Ranjini Swaminathan, CMIP Model Benchmarking task team)
- 14:35-14:55 The Role of Observations in CMIP7 (Eleanor O'Rourke, CMIP IPO)
- 14:55-16:10 Breakout Sessions (details at main agenda [here](#))
- 16:10-16:40 Feedback from Breakout Sessions to Group
- 16:40-17:00 Looking Forward & Opportunity Identification (Eleanor O'Rourke, CMIP IPO)
- 17:00-18:30 *Poster Session & Drinks Reception*

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 / Machine learning)
- Lisa Bock (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)
- Joan Llort (Ocean biogeochemistry)

UKRI-STFC (CEDA)

- Alison Waterfall (Obs4MIPs)

IPSL

- Philippe Peylin (Snow dynamics)
- Catherine Ottlé (Snow dynamics)

Météo France

- Jean-Christophe Calvet (Land surface)

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)

CMUG Partner Contact per ECV

Below is a table that shows the contact information for the CMUG expert on each CCI ECV, including institutions and emails.

ECV	CMUG Partner	Institution	Email
Aerosols	Angela Benedetti	ECMWF	Angela.benedetti@ecmwf.int
	Kirsti Salonen	ECMWF	kirsti.salonen@ecmwf.int
	Jeronimo Escribano	BSC	jeronimo.escribano@bsc.es
Anthropogenic water use	TBD	TBD	TBD
Biomass/AGB	Debbie Hemming	Met Office	Debbie.hemming@metoffice.gov.uk
	Daniele Peano	CMCC	daniele.peano@cmcc.it
Clouds	Lisa Bock	DLR	Lisa.bock@dlr.de
	Axel Lauer	DLR	Axel.lauer@dlr.de
	Ulrika Willén	SMHI	Ulrika.willen@smhi.se
Fire/Burnt Area	Jean-Christophe Calvet	Météo-France	Jean-christophe.calvet@meteo.fr
Glaciers	TBD		
Greenhouse Gases	Rob Parker	NCEO	rjp23@leicester.ac.uk
Ice Sheets	Ulrika Willén	SMHI	Ulrika.Willen@smhi.se
	Ruth Mottram	DMI	ruth.mottram@dm.dk
Lakes	Richard Jones	Met Office	Richard.jones@metoffice.gov.uk
Land Cover	Jean-Christophe Calvet	Météo-France	Jean-christophe.calvet@meteo.fr
	Debbie Hemming	Met Office	Debbie.hemming@metoffice.gov.uk
LST	Rob King	Met Office	Rob.king@metoffice.gov.uk
	Jean-Christophe Calvet	Météo-France	Jean-christophe.calvet@meteo.fr
	Catherine Oettle	IPSL	catherine.oettle@lsce.ipsl.fr
Ocean Colour	David Ford	Met Office	David.ford@metoffice.gov.uk
	Joan Llorc	BSC	joan.llorc@bsc.es
Ozone	Angela Benedetti	ECMWF	Angela.benedetti@ecmwf.int
Permafrost	Jean-Christophe Calvet	Météo-France	Jean-christophe.calvet@meteo.fr
Precursors to aerosol and ozone	TBD	TBD	TBD
Sea Ice	David Ford	Met Office	David.ford@metoffice.gov.uk
Sea Level	David Ford	Met Office	David.ford@metoffice.gov.uk

	Pablo Ortega	BSC	Pablo.ortega@bsc.es
Sea State	David Ford	Met Office	David.ford@metoffice.gov.uk
Sea Surface Salinity	David Ford	Met Office	David.ford@metoffice.gov.uk
	Pablo Ortega	BSC	Pablo.ortega@bsc.es
SST	David Ford	Met Office	David.ford@metoffice.gov.uk
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	Ulrika Willén	SMHI	Ulrika.willen@smhi.se
Snow	Philippe Peylin	IPSL	Philippe.peylin@lsce.ipsl.fr
	Catherine Ottlé	IPSL	Catherine.ottle@lsce.ipsl.fr
Soil Moisture	Debbie Hemming	Met Office	Debbie.hemming@metoffice.gov.uk
	Jean-Christophe Calvet	Météo-France	Jean-christophe.calvet@meteo.fr
Water Vapour	Angela Benedetti	ECMWF	Angela.benedetti@ecmwf.int
	Axel Lauer	DLR	Axel.lauer@dlr.de
Vegetation	Daniele Peano	CMCC	daniele.peano@cmcc.it
	Jean-Christophe Calvet	Météo-France	Jean-christophe.calvet@meteo.fr
	Philippe Peylin	IPSL	Philippe.peylin@lsce.ipsl.fr
Other long-lived greenhouse gases	Rob Parker	NCEO	rjp23@leicester.ac.uk
River discharge	Jean-Christophe Calvet	Météo-France	Jean-christophe.calvet@meteo.fr
	Catherine Ottlé	IPSL	Catherine.ottle@lsce.ipsl.fr