

Main tasks proposed for the next phase of CMUG



- Task 1: Climate Community Requirements Collection and Analysis
- Task 2: CCI ECV Contributions to WCRP's obs4MIPs
- Task 3: CMUG Support to the Future Evolution of obs4MIPs
- Task 4: CCI contributions to ESMValTool
- Task 5: Cross-ECV Climate Science Studies
 - Optional Studies for Task 5
- Task 6: Communications and Outreach
- Task 7: Management























1: Collect/analyse climate community requirements



User requirements [update] for all ECVs

Tasks, undertaken during first [and last] six months of the project:

- Identify expert users
- Carry out interviews
- Analyse results
- Incorporate updates to the GCOS implementation plan into analysis
- [Incorporate clarifications requested by ECV projects into analysis]
- Write up and update existing requirements document
- Circulate requirements document across all of ESA CCI























6: Communications and Outreach



Regular outputs and updates

- CMUG Integration Meeting report
- CMUG slide show and poster
- CMUG newsletter
- CMUG website content

Underpinning and ad hoc activites

- Liaise with Knowledge Exchange
- Participate at Relevant Events
- Promote CCI ECV Data Sets

























Task 5: Cross-ECV Climate Science Studies



- Machine Learning to advance climate model evaluation and process understanding
- Assessment and evaluation of the role of vegetation on hydrometeorological processes
- Impact of integrating CCI LC data in the ISBA land surface model
- Seasonal predictability of Ocean Biogeochemistry and potential benefits of ESA CCI data assimilation
- Cloud and aerosol analysis study
- Snow Dynamics impacts on temperature / high latitude climate
- Atmospheric drivers and feedback processes affecting the Greenland and Antarctic ice-sheets in observations and regional climate models



















Optional Studies for Task 5



All studies listed in Task 5 have proposed optional studies building on those in Task 5

In addition, a further optional study was included:

 Using Machine-Learning to Evaluate and Understand our Capability to Model Tropical Wetland Methane Emissions



















CMUG Partners next phase



- ESA: Simon Pinnock
- Met Office: Amy Doherty, Richard Jones, Hannah Griffith, David Ford, Debbie Hemming, Rob King
- DLR: Axel Lauer, Lisa Bock, Veronika Eyring
- MPI-M: Dirk Notz
- CNRM: Jean-Christophe Calvet
- ECMWF: Angela Benedetti
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- SMHI: Ulrika Willén
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