

You can change the future

Improvement of climate models and reanalyses depends on observational data for use in initialising and constraining models, and verifying outputs. Observational data exist but have to be carefully processed before being used.

The **European Space Agency (ESA)** has observation data sets, currently up to 20 years in duration, produced by its satellites. These data sets are being reprocessed for the climate modelling community for the above applications, in coordination with international climate organisations and CEOS agencies.

In order to do this **ESA** are funding an initiative to scope out:

- the observation data needs of the climate modelling and reanalysis communities
- the most important climate variables and how they should be treated
- the requirements for integrating satellite data products with climate models
- the necessary data structures, formats and accessibility

If you are a climate modeller or work with reanalyses and are interested in how this will evolve then your input now and in the future can help shape this project. See overleaf for more details on this project.

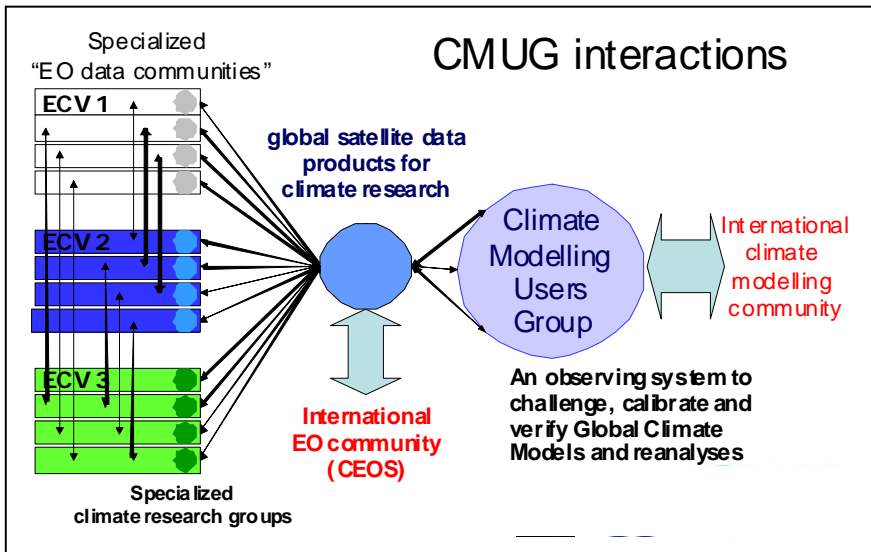
Come to the Climate Modelling User Group (CMUG) Session in Room SM1 from 3:30 to 5pm on Thursday 6th May and change the future – or see our poster at session CL4.3 in Hall Z on Wednesday 5th.



Climate Modelling User Group

Some of the discussion topics for the meeting are:

- What are the key Essential Climate Variables (ECV) for climate research?
- Lessons learnt from previous satellite dataset reprocessing?
- What is the optimal way to generate the satellite datasets?
- Need for level 1 vs level 2 datasets?
- What are the requirements for the 11 ESA ECVs?
- How should the datasets produced be assessed?
- What is the desired data format and means of access for users?



CMUG is a consortium of the Met Office, ECMWF, MPI and MétéoFrance

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