



DARC/NCEO Data Assimilation Training course

University of Reading

9-12th May 2023



Natural
Environment
Research Council



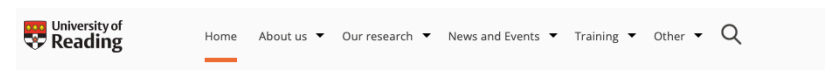
**National Centre for
Earth Observation**
NATURAL ENVIRONMENT RESEARCH COUNCIL

Data assimilation Research Centre



- A centre at the Univ. of Reading, crossing the Dept of Meteorology and the Dept of Mathematics & Statistics
- Composed of 9 academic staff and approximately 25 PDRAs/ PhD students.
- Working on many aspects of DA, from theory to new applications.

<https://research.reading.ac.uk/met-darc/>



DARC



At the forefront of data assimilation research

Data assimilation is the science of combining information from computational models and observations. Data assimilation has proven to be fundamental to modern day weather forecasting and its immense potential for other applications is now widely recognised.

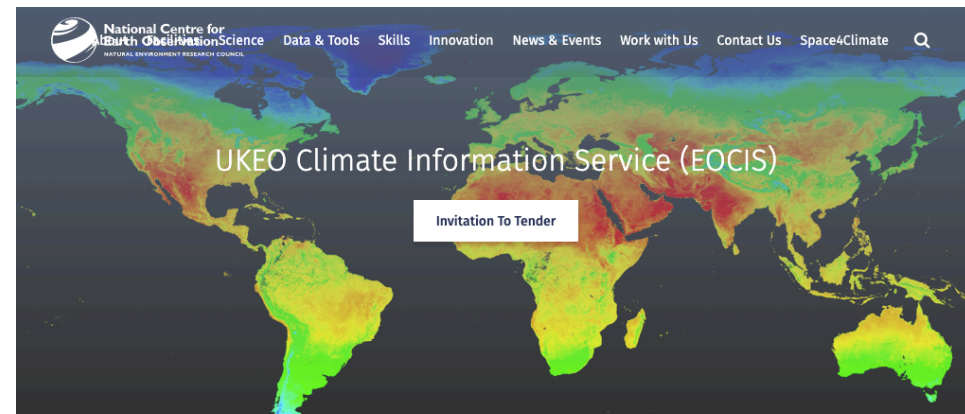
Applying data assimilation theory to real models and real observations is very challenging and is an area of active research. At the Data Assimilation Research Centre we perform fundamental research to increase the benefits of data assimilation. Particular areas of research are:

- Characterising uncertainty in models and observations.

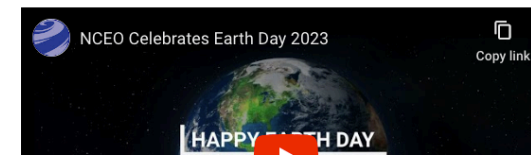
National Centre for Earth Observation

- A distributed NERC centre of over 100 UK scientists, many of whom are based in Reading.
- Working on all aspects of Earth Observation –instrument design, data assimilation, using EO for climate, EO for energy and water cycles, atmospheric pollution.

<https://www.nceo.ac.uk/>



Earth Observation science to understand a changing planet



New paper published



This week

- A very full programme of data assimilation lectures and practicals!
- Delivered by a whole team of DARC scientists.
- Plenty of time during breaks to chat about research.
- 2 social events
 - Icebreaker –Today from 17:00, Meteorology Coffee room.
 - Course dinner at Zizzis, Reading –Thursday at 18:30

Some practical aspects

- The course will mostly take place in the Brian Hoskins building, 1L61. But on Thursday we will move to the Agriculture building, 1L06 for lunch and the afternoon practicals and lecture. On Friday we will then be back in Brian Hoskins building, 1L61.
- Photos, including group photo on Thursday –Consent forms.
- There are many on-line participants so the lectures will be broadcast live via teams. Note microphones are on the ceiling so will pick up anyone speaking.
- Enjoy the week, ask questions and have fun!