

UKESM NCSMC General Assembly: June 11-12 - NOC, Southampton

Day 1

8.30 - 9.00 Registration and coffee

9.00 - 10.30 The UKESM project and UKESM1:

Intro + overview - **Colin Jones** (10 mins)

UKESM1 science performance overview:

- The coupled model - **Alistair Sellar** (20 mins)
- Aerosols and chemistry - **Jane Mulcahy** and **Alex Archibald** (30 mins)
- Oceans and sea ice - **Andrew Yool** and **Till Kuhlbrodt** (30 mins)

10.30 - 11.00 Break

11.00 – 12.30 UKESM1 science performance and contributed talks:

The carbon cycle - **Andy Wiltshire** or **Chris Jones** (20 mins)

UKESM1 with interactive Greenland Ice sheet: 1st results - **Vicky Lee** (15 mins)

4 contributed talks x 12 mins (10 mins talk plus 2min Q&A):

- **David Schroeder**: Robustness of simulated changes in sea ice properties in the North Atlantic during last 40 years
- **Yevgenii Aksenov**: Arctic dynamics and BGC in the UKESM1
- **Antony Siahhan**: Preliminary Analysis of Antarctic oceanography in UKESM
- **Till Kuhlbrodt**: Ocean heat uptake in the UKESM1 historical and scenarioMIP simulations

12.30-13.30 Lunch

13.30 – 15.30 UKESM1 contribution to CMIP6 MIPs and contributed talks:

Status of scenarioMIP projections - **Colin Jones** (15 mins)

UKESM1 progress on MIPs and data on ESGF - **Jeremy Walton** (15 mins)

ESMValTool – **Valeriu Predoi** (15 mins)

6 Contributed talks x 12 mins (10 mins talk plus 2min Q&A):

- **Andrew Meijers**: ORCHESTRA's use of UKESM and CMIP models
- **Jon Robson**: ACSIS plans analysing UKESM1 simulations
- **Katya Popova**: Analysis of the ocean dynamics and BGC in the UKESM: synergies with the national and international programs (ACIS, ORCHESTRA, Changing Arctic, TicToc, SOLSTICE, OMIP)
- **Chris Jones**: The zero-emission commitment: UKESM1 and multi-model ZECMIP results
- **Rob Parker**: Exploring Constraints on a Wetland Methane Emission Ensemble with Satellite Observations
- **Alistair Sellar**: Some novel techniques for evaluation of Earth system processes

15.30– 16.00 Break

16.00– 17.30 Forward look and contributed talks:

UKESM1 with interactive Antarctic and Greenland - **Robin Smith** (15 mins)

UKESM1-FAST and future UKESM release plans - **Colin Jones** (20 mins)

4 Contributed talks x 12 min (10 mins talk plus 2min Q&A):

- **Andrew Yool:** Spin up and validation of the marine BGC in the UKESM1
- **Adrian Martin:** Transport matrix method - an alternative to "Coarsening" in the spin-up process?
- **Julien Palmieri:** Marine biomes in UKESM1
- **Lee de Mora:** Methane Hydrates in the UKESM1 CMIP6 simulations

19.30 Meeting dinner at Dancing Man Brewery (<https://www.dancingmanbrewery.co.uk/>)

Day 2

8.30 - 9.00 Coffee

9.00 – 10.30 Forward look: Contributed talks and Break out group planning:

6 contributed talks x 12 mins (10 mins talk plus 2min Q&A):

- **Doug Kelley:** Progress towards UKESM-fire
- **Richard Pope:** Evaluation of atmospheric composition in UKESM
- **Adam Povey:** Evaluation of aerosol in the UKESM with an ensemble of satellite observations
- **Alex Archibald:** Looking at changes in the nitrate radical (1850-2100)
- **Garry Hayman:** Update on JULES & Atmospheric Deposition
- **Rob Parker:** UKESM1 evaluation: Opportunities from the ESA CCI

Break-out Groups (BoG): presentations and planning (30 mins)

10.30-11.00 Break

11.00 – 12.30 BoGs (5 rooms available):

- BoG1:TBD.....
- BoG2:TBD.....
- BoG3:TBD.....
- BoG4:TBD.....

12.30 – 13.20 Lunch

13.30 – 14.30 BoGs continue (5 rooms available)

14.30 – 15.00 BoGs report back to plenary

15.00 -15.30 Break

15.30- 16.30 Final session and open discussion

16.30 – 17.30 AB meeting

Contributed talks:

Till Kuhlbrodt	NCAS	Ocean heat uptake in the UKESM1 historical and scenarioMIP simulations
Rob Parker	NCEO	Exploring Constraints on a Wetland Methane Emission Ensemble with Satellite Observations
Adam Povey	NCEO	Evaluation of aerosol in the UKESM with an ensemble of satellite observations
Lee de Mora	PML	Methane Hydrates in the UKESM1 CMIP6 simulations
Doug Kelley	CEH	Progress towards UKESM-fire
Chris Jones	MOHC	The zero-emission commitment: UKESM1 and multi-model ZECMIP results
Richard Pope	NCEO	Evaluation of atmospheric composition in UKESM
Alex Archibald	NCAS	Looking at changes in the nitrate radical (1850-2100)
Alistair Sellar	MOHC	Some novel techniques for evaluation of Earth system processes
Andrew Meijers	BAS	ORCHESTRA's use of UKESM and CMIP models
David Schroeder	CPOM	Robustness of simulated changes in sea ice properties in the North Atlantic during last 40 years
Julien Palmieri	NOC	Marine biomes in UKESM1
Garry Hayman	CEH	Update on JULES & Atmospheric Deposition
Jon Robson	NCAS	ACSIS plans analysing UKESM1 simulations
Antony Siahhan	BAS	Preliminary Analysis of Antarctic oceanography in UKESM
Rob Parker	NCEO	UKESM1 evaluation: Opportunities from the ESA CCI
Andrew Yool	NOC	Spin up and validation of the marine BGC in the UKESM1
Yevgenii Aksenov	NOC	Arctic dynamics and BGC in the UKESM1
Katya Popova	NOC	Analysis of the ocean dynamics and BGC in the UK ESM: synergies with the national and international programs (ACSIS, ORCHESTRA, Changing Arctic, TicToc, SOLSTICE, OMIP)
Adrian Martin	NOC	Transport matrix method - an alternative to "Coarsening" in the spin-up process?