

"Simulating midlatitude circulation changes: what might we gain from high resolution modelling of air-sea interactions?"

25-26 February 2019

The Grantham Institute at Imperial College London

Program

DAY 1: Monday 25 February

10.30-11am: Tea, coffee and biscuits

11am-11.30pm:

-Jo Haigh & Arnaud Czaja (Imperial College): Welcome, scope of workshop, scientific background.

11.30am-1pm, chair: Ralf Toumi (Imperial)

-Helen Dacre (Reading University): *How is moisture supplied to cyclones: the role of air-sea interactions*

-Chris Roberts (ECMWF) *The atmospheric response to increased ocean model resolution in the ECMWF Integrated Forecasting System: a seamless approach*

-Nick Dunstone (Met Office): *Skilful European winter and summer climate predictions in the presence of a pervasive signal-to-noise paradox*

1-2pm: Lunch provided

2pm-3.30pm, chair: Mike Byrne (University of St Andrews)

-Malcolm Roberts (Met Office): *Multi-model studies of the impact of horizontal resolution on storms and storm tracks using CMIP6 HighResMIP simulations.*

-Benoit Vannière (Reading University): *The impact of atmospheric models' resolution on the midlatitude climate, insights from PRIMAVERA*

-Robert Lee (Reading University): *Storm Impact of Gulf Stream SST biases on the global atmospheric circulation*

3.30-4pm: Panel discussion with morning and afternoon speakers

4-4.30pm: Tea, coffee & biscuits

4.30pm-6pm, chair: Paulo Ceppi (Imperial)

-Rhys Parfitt (Florida State University): *TBC (by Skype)*

-Isla Simpson (UCAR, Boulder): *Modelled and observed multidecadal variability in the North Atlantic jet stream and its connection to sea surface temperatures (by Skype)*

-Justin Small (NCAR, Boulder): *Storm track response to ocean fronts in the high resolution simulations at NCAR (by Skype)*

7pm: Dinner at Jakobs (20 Gloucester Road, London SW7 4RB), a few mn walk from the Grantham Institute.

DAY 2: Tuesday 26 February

9.30-10am: Tea, coffee and biscuits

10am-12, chair: **Benoit Vannière (Reading University)**

-**Xiaohui Ma (Ocean University of China, Qingdao)**: *Kuroshio eddies, Storm Track and Climate Variability in the North Pacific (by Skype)*

-**Sybrein Drijfhout (Southampton University and KNMI)**: *Gulfstream eddies modulate Eastern North Atlantic atmospheric variability.*

-**Claude Frankignoul (UPMC, Paris)**: *Asymmetry in a high-resolution simulation of the wintertime atmospheric response to Oyashio latitudinal shifts*

-**Shoshiro Minobe (Hokkaido University, Sapporo)**: *"Roles of sensible and latent heat fluxes on the wintertime atmospheric responses to the Gulf Stream"*

12-12.30: Panel discussion with morning speakers

12.30: Formal end of meeting