



Intercomparison of reanalyses of the Atlantic Ocean and
Atlantic meridional overturning circulation

Kick-off meeting agenda

22th Sep 2017

175 Harry Pitt Building, Earley Gate entrance, Reading University

9-9.30 Arrival and welcome

9.30-9:45 *Gokhan Danabasoglu*. Results from a previous intercomparison of AMOC in ocean reanalyses and forced ocean models.

9:45-10:00 *Laura Jackson*. A successful AMOC reconstruction from GloSea5 and results from several other NEMO models

10:00-10:15 *Clotilde Dubois*. Comparison of deep water formation regions

10:15-10:30 *Maria Valdivieso*. Comparison of heat and fresh water budgets

10:30-10:45 *Davi Carneiro*. The South Atlantic

10:45-11:00 *Lesley Allison*. The heat budget of the North Atlantic

11:00-11:30 Tea break

11:30-12:30 Discussion of draft outline. What would we like to include if possible? What are the priorities?

12:30-13:30 Lunch

13:30-14:30 Practical issues. What analysis would need to be done on the model grid? What can be done by individual modelling centres, what can be done centrally? What methods are available for data transfer/central storage and processing? How are we going to stay in touch? How should the writing of the paper be coordinated?

14:30-16:00 Continue discussion (plus tea break)

Discussion topics:

- **AMOC**
 - **Streamfunction**
 - **Timeseries and profile at 26N**
 - **RAPID decomposition at 26N (model independent python code available) including variability of components**
 - Timeseries at OSNAP section (NEMO 025 python code available)
 - Other sections? (SAMOC...)
- **OHT**
 - **Gyre vs overturning**
 - **Time mean (over some period) by latitude**
 - **Timeseries at 26N**
 - Seasonal cycle
 - Eddy transport
 - Other sections?
- **OHC**
 - Anomalies of ocean heat content over specific regions
 - Profiles/hovmoller plots
 - Surface fluxes?
- **Deep water formation/convection**
 - **Mixed layer depth (mean, variability)**
 - **properties of Lab sea water etc**
- **Ocean properties**
 - Gyre strengths
 - Fresh water content/salinity
 - Dominance of T/S variability