

## **Rapid Climate Change (RAPID) Annual Science Meeting 2005**

### **Agenda**

**Wednesday 29 June 2005**

<b>12:30</b>	Arrival, registration, tea and coffee	
<b>13:30</b>	Welcome	Lloyd Keigwin, Chair Steering Committee
<b>13:35</b>	Introduction	Meric Srokosz, Science Coordinator
<b>13:45</b>	COAPEC: a precursor to RAPID? (Invited lecture) [Coupled Ocean Atmosphere Processes and European Climate]	Helen Snaith, COAPEC Science Coordinator
	Chair: John Lowe	
<b>14:30</b>	Predictability of Rapid Climate change associated with the Atlantic Thermohaline Circulation	Rowan Sutton
<b>14:45</b>	The North Atlantic storm track and its moisture transports	David Brayshaw
<b>15:00</b>	The impact of surface flux anomalies on the mid high latitude atlantic ocean circulation	Jeremy Grist, Simon Josey
<b>15:15</b>	Tea & posters	
<b>15:45</b>	The 8.2kyear event - workshop report (30') & discussion (30')	Jonathan Holmes Alayne Street-Perrott Eric Wolff
<b>16:45</b>	Students introduce their posters (1 minute each)	
<b>17:15</b>	Student poster session + judging	
<b>18:30</b>	End of session	
<b>20:00</b>	<b>Dinner</b>	

# DRAFT

**Thursday 30 June 2005**

	Chair: Jochem Marotzke	
<b>09:00</b>	Dissecting Meridional Transports (Invited lecture)	Peter Rhines
<b>09:45</b>	Wave communication of high latitude forcing perturbations over the North Atlantic	Vassil Roussenov
<b>10:00</b>	Monitoring DWBC variability with dynamic height moorings	Bill Johns
<b>10:15</b>	RAPID data management	Robin McCandliss
<b>10:30</b>	Coffee & posters	
<b>11:00</b>	Monitoring the Atlantic Meridional Overturning at 26.5 N: A data report for year 1 (March 2004 to May 2005)	Stuart Cunningham
<b>11:15</b>	Monitoring of the Atlantic Meridional Overturning Circulation: Lessons from two precursory experiments	Torsten Kanzow
<b>11:30</b>	Baroclinic variability of the meridional overturning circulation	Joel Hirschi
<b>11:45</b>	Temperature variability of the Northern Atlantic Ocean in the last six years according to the ARGO data	Vladimir Ivchenko
<b>12:00</b>	Understanding human behaviour and responses to rapid climate change (ESRC Human Dimensions Programme)	Mark Pelling
<b>12:45</b>	<b>Lunch</b>	
<b>14:00</b>	Main poster session	
<b>15:30</b>	Tea & posters	
	Chair: David Stevens	
<b>16:00</b>	Harry's challenge (modelling v. observations) & discussion Hindcasting the Atlantic thermohaline circulation over 1985-2002	Bob Marsh
<b>16:15</b>	Variability in the Atlantic Meridional Overturning Circulation at 25 N	Harry Bryden
<b>16:30</b>	Modelling 20 <sup>th</sup> century changes in the Atlantic MOC	Richard Wood, Yvonne Searl
<b>16:45</b>	Discussion	
<b>17:15</b>	The probability of rapid climate change Discussion	Peter Challenor
<b>17:45</b>	The 36N Consortium ( <a href="http://www.bodc.ac.uk/36n/">www.bodc.ac.uk/36n/</a> )	Ric Williams
<b>17:55</b>	Brief introductions to 2 <sup>nd</sup> and joint international AO projects	
<b>18:30</b>	End of session	
<b>20:00</b>	<b>Conference dinner</b> Speaker: David Buckland, Cape Farewell	

# DRAFT

## Friday 1 July

	Chair: Peter Haugan	
<b>09:00</b>	Consistent simulations of multiple proxy responses to an abrupt climate change even	Gavin Schmidt
<b>09:45</b>	The role of the cryosphere in modulating the thermohaline circulation of the Atlantic: progress report and results	John Shepherd
<b>10:00</b>	Arctic Regulations of the Thermohaline Circulation (ARTHER)	Sheldon Bacon
<b>10:15</b>	Model inter-comparison - workshop report	Jonathan Gregory
<b>10:45</b>	Coffee & posters	
<b>11:15</b>	Model inter-comparison - discussion	Jonathan Gregory
<b>11:45</b>	Coupled model simulations of ENSO in mid-Holocene, present day and future climate	Jo Brown
<b>12:00</b>	Simulated and reconstructed climate variability during the last 1000 years	Tim Osborn
<b>12:15</b>	The atmospheric water vapour budget and its relevance to the Thermohaline Circulation	Mariane Coutinho
<b>12:30</b>	Tropical Pacific ocean adjustment to changes in the hydrological cycle	Paul Williams
<b>12:45</b>	Where next?	Meric Srokosz, Science Coordinator
<b>13:15</b>	Lunch	
<b>14:00</b>	Meeting closes	

## Posters

William Austin – North Atlantic reservoir ages linked to high Younger Dryas atmospheric radiocarbon

Colin Cotter – Finite element modelling of open ocean deep convection

Keith Haines – Data assimilation & open-ocean model transports

Ian Hall – Multi-decadal Ocean Variability and NW European Ice Sheet Surges during the last deglaciation

Taro Hosoe – Preliminary results on coupling a fast AOGCM to a thermo-mechanical model of Greenland ice-sheet

Kevin Marsh – The RAPID Data Centre

Nick McCave – Sampling the northern boundary of the North Atlantic: Cruise 159 of RRS Charles Darwin for RAPID

J Simstich – Deglacial and Holocene Changes in the waters of the Faroe-Shetland channel

Siobhan McGarry – Holocene Climate Variability along the North Atlantic European Margin: evidence from speleothem trace elements

Adrian New – Comparison of the CHIME Coupled Climate Model with HadCM3

Darren Rayner – RAPID-MOC (Monitoring the Atlantic Meridional Overturning at 26.5 N): A data report for year 1, March 2004 to May 2005

Jonathan Rougier – Climate Inference with Imperfect Climate Models

Liz Thomas – High-resolution analysis of Dansgaard-Oeschger event 8 from the North Greenland Ice Core Project ice core

John Toole – Investigating the characteristics and consequences of interannual variations in the Northwest Atlantic's deep Western Boundary Current

Gerard van der Schrier – Detectability of MOC-changes in terrestrial proxies

Neil Wells – Energy conversion in the ocean linked with generation and propagation of fast barotropic Rossby waves

## **Student Posters**

Tim Daley – Terrestrial evidence of rapid Holocene climatic departures coincident with events in the North Atlantic Ocean

Helena Evans – Spatial reconstruction of deep water flow in the sub-tropical NW Atlantic at sharp climatic transitions

Lisa Fuller – The Isotope hydrology of Uamh an Tartair cave system, Sutherland, NW Scotland and the implications for palaeoclimatic research

Philip Goodwin – Is atmospheric carbon dioxide more sensitive to change during glacial periods?

Rachel Hadfield – Using ARGO float data to examine the North Atlantic Heat Budget

Sally Hunter – Patterns of sedimentation across the Eirik Drift revealed by echo-character studies

Hannah Longworth – Historical Estimates of Atlantic Meridional Overturning Circulation

Doug McNeill – The Probability of Rapid Climate Change: Reducing Dimensionality in the Bayesian Analysis of a Numerical Climate Model

Aazani Mujahid – Towards an Operational Array for Monitoring the Atlantic Meridional Overturning Circulation

Claire Smith – Automated chronology building in speleothems

Jenny Stanford – Initial results from a high resolution study of the Younger Dryas and Bolling-Allerod, Eirik Drift, South of Greenland

David Wilkinson – Spatial & Temporal Variability Of The East Greenland Coastal Current From Historic Data