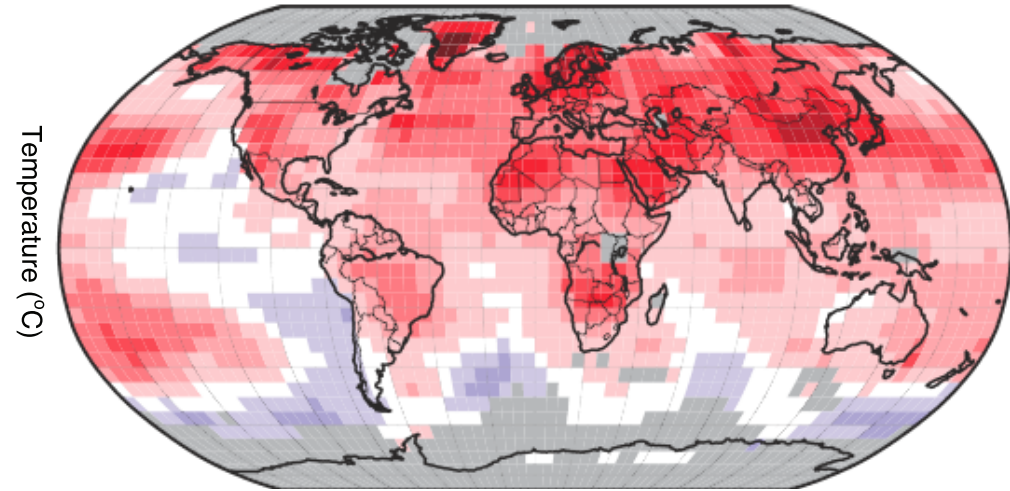
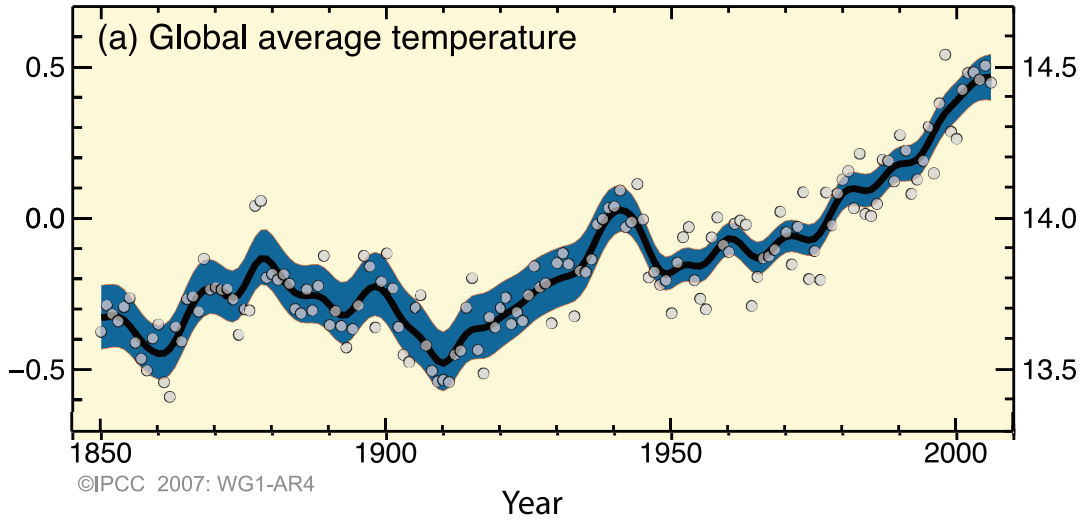


# Liverpool Marine Symposium 2011

- Modelling and statistical methods used in climate change and marine sciences



- Research Centre for Marine Sciences and Climate Change  
jointly run by the School of Environmental Sciences, University  
and the National Oceanography Centre
- University research theme: Living with Environmental Change  
official launch on 9 February 2011

# Science of Climate Change Briefing

Thursday 10 February 2011, 4.00-7.00pm

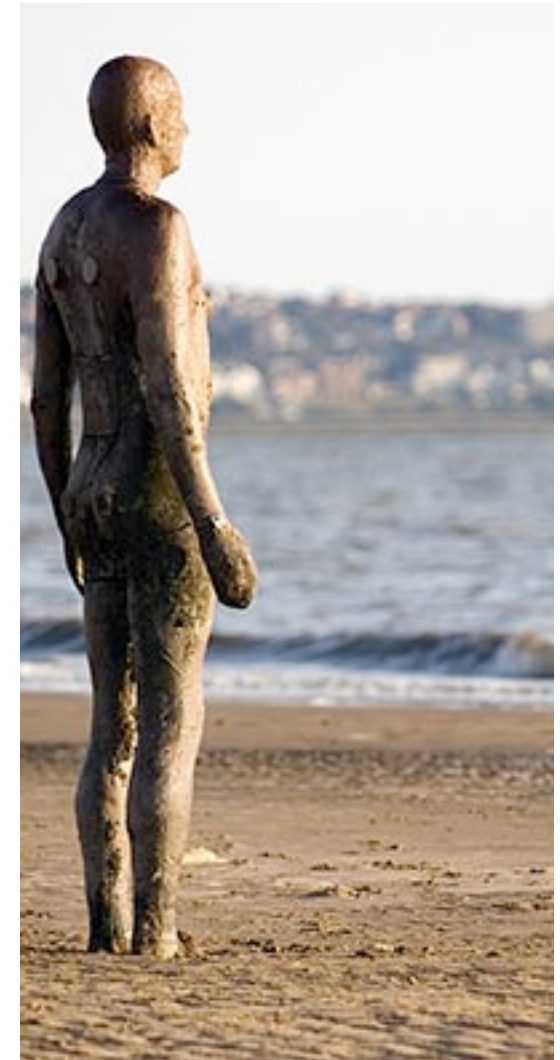
Sherrington Building, Ashton Street, University of Liverpool

Rising levels of carbon dioxide have given a measured warming over the globe. Unchecked emissions will increase this warming and the frequency and intensity of climate extremes - having a direct and well-established impact on human health.

Low-elevation coastal zones house about 10% of the world population; how will rising sea levels impact here? And, how can we create the energy we need without producing unacceptable amounts of carbon dioxide?

This joint initiative from the University of Liverpool and the National Oceanography Centre welcomes guest speakers

- Professor Sir David King - UK Government's Chief Scientific Advisor and Head of the Government office of Science from 2000-7, and Chancellor of the University of Liverpool
- Andrew Miller MP - Chair of the Science and Technology Select Committee



Isaac Newton Institute for Mathematical Sciences

# Mathematical and Statistical Approaches to Climate Modelling and Prediction



11 August - 22 December 2010

**Organisers:** Dr R Chandler (*UCL*), **Dr M Collins** (*Exeter*), Professor P Cox (*Exeter*), **Dr K Horsburgh** (*National Oceanography Centre, Liverpool*), **Professor JM Huthnance** (*National Oceanography Centre, Liverpool*), **Dr JC Rougier** (*Bristol*), Professor DB Stephenson (*Exeter*) and Professor J Thurnburn (*Exeter*)

# Liverpool Marine Symposium 2011 - Modelling and statistical methods used in climate change and marine sciences

Kevin Horsburgh (NOC) New statistical approaches to assessing climate change – report back from the Cambridge Newton Institute

Sam Royston (NOC) A probabilistic rule-based method of predicting storm surge

Svetlana Jevrejeva (NOC) Statistical modelling of sea level response to the changes in climate forcing

Vassil Rossenov (SoES) Assessing how North Atlantic ocean overturning varies over the last 50 years

Jonty Rougier (Bristol) Inference using large climate simulators: HadCM3 and North American Mid-Holocene temperature anomalies

*Lunch and poster session (Foresight Centre)*

Matt Collins (Exeter/Met Office) Dealing with Model Uncertainties in Climate Projection

Leonie Robinson (SoES) Detecting change points in marine time series using state-space models

Matthew Baylis (Climate and Infectious Diseases) Using climate models to project the future distributions of climate-sensitive infectious diseases

Adrian Martin (NOC) Plankton patchiness: new approaches to a centuries old puzzle