



Understanding the Earth System through Models

2011/12 Seminar Series

The series is a coherent collection of virtual seminars presented on a monthly basis by leading figures to a live international audience of faculty and graduate students. It uses innovative intellectual approaches and new technologies to explore recent debates and developments in earth systems.

This year's series is the eighth annual running of this event and takes as its theme 'Understanding the Earth System through models'. The theme aims to explore how the hierarchy of available models improves our understanding of climatic, biological, oceanographic and atmospheric changes, on time scales ranging from interannual–decadal through millions of years. The seminar series is geared to untangle the complexity of past climate, and show links between different time scales, as well as between the system components (global carbon cycle, cryosphere, the oceans, and climate in low to high latitudes).

Local seminar times:

US Pacific: 9am | US Central: 11am

US Eastern: 12 noon | UK: 5pm | Central Europe: 6pm

Series co-convenors:

Dr Heiko Pälike, National Oceanography Centre Southampton, University of Southampton

Dr Kevin Oliver, National Oceanography Centre Southampton, University of Southampton

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28 September 2011

Kevin Oliver, University of Southampton

Ocean physics and the global carbon cycle:
A highly non-linear problem

23 November 2011

Erik Tuenter, KNMI/Universiteit Utrecht

Transient (monsoonal) climate behaviour in CLIMBER

14 December 2011

Ying Cui, Penn State University

Slow release of fossil carbon during the Paleocene-Eocene Thermal Maximum: Model inversion of a new, high-resolution carbon isotope record from Spitsbergen

18 January 2012

Alan Haywood, Leeds University

Modelling Earth's last interval of greater global warmth: progress, pitfalls and future challenges

15 February 2012

Stephen Meyers, Wisconsin

The construction of time models (orbital time scales), and their integration with proxy data to develop a conceptual model for Oceanic Anoxic Event 2

21 March 2012

Christoph Heinze, Bergen University

Modelling the ocean carbon cycle: lessons from the past and entering new territory for the future

18 Apr 2012

TBD

16 May 2012

Steven Higgins, Goethe University Frankfurt

TBD (ecosystem modelling)