Ocean and Earth Science,
National Oceanography Centre
Southampton

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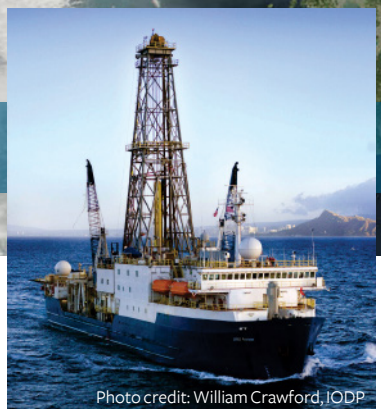
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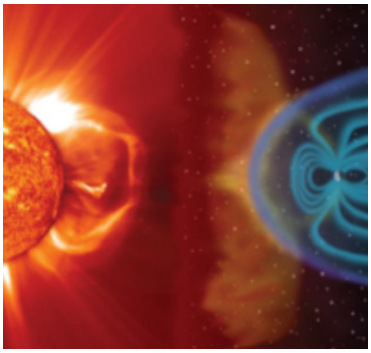


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PhD opportunities in Palaeoceanography and Palaeoclimate

Entry 2016

Understanding past changes in the Earth System provides the essential context for future climate prediction. Southampton's Palaeoceanography and Palaeoclimate research group is big and active with critical mass of over 55 academics, post-doctoral researchers and PhD students and a suite of state-of-the-art geochemical, micropalaeontological, core processing and numerical modelling facilities. Our research is global in scope. We work in all ocean basins on key problems in Earth history spanning the Anthropocene to the Palaeozoic.

A multi-proxy investigation of the last great tipping point in Earth's climate history: Ocean circulation and the onset of a bipolar glacial world
Paul A. Wilson, Gavin Foster & Ian Bailey (Exeter)

Global climate teleconnections and the onset of Antarctic glaciation
Paul A. Wilson & Steve Bohaty

Aridity in Asia: What is the palaeoclimate record in ocean sediments trying to tell us?
Paul Wilson, Chuang Xuan & Suzanne MacLachlan

The role of CO_2 in Plio-Pleistocene climate change; revealed by orbital resolution boron isotope records
Gavin Foster, Paul A. Wilson, Eelco Rohling & Ian Bailey (Exeter)

Climate Change and Geomagnetic Field: New insights from the West Iberian Margin
Chuang Xuan, Paul A. Wilson & David Hodell (Cambridge)

Predicting increased frequency of extreme sea-level flooding events from Monte Carlo simulations using a novel ultra-fast climate model
Philip Goodwin, Ivan Haigh & Eelco Rohling

Tracking changes in seasonal to millenial scale climate variability through the Eocene transition from an ice-free to ice-covered Arctic Ocean
Alan Kemp & Ian Harding

North American climate history of the early Icehouse
Steve Bohaty, Paul A. Wilson, Peter C. Lippert (Utah) & Dennis O. Terry (Temple Univ) Collaborators: Hemmo Abels (Utrecht Univ), Chuang Xuan & Diederik Liebrand

Finding Earth's thermostat: Testing the relationship between global climate, silicate weathering and marine carbonate production
Christopher Pearce, Steve Bohaty & Paul A. Wilson

A novel way to determine Earth's sensitivity to greenhouse gas forcing using an ultra-fast climate model and the geological record
Philip Goodwin, Paul A. Wilson & Gavin Foster

Greenhouse Climate of the American West
Jessica Whiteside, Magdalena Rose Osburn (USA) & Steve Bohaty

Testing the "Iron Hypothesis" and determining the causes of glacial - interglacial CO_2 change
Gavin Foster, Mathis Hain & Jessica Whiteside

Abrupt marine ecosystem change across the end-Triassic mass extinction: Insights from molecular fossils
Jessica Whiteside & John Marshall

Unlocking the history of sea surface temperature using SST-proxies in corals from the Belize Barrier Reef
Jessica Whiteside, Magdalena Rose Osburn (USA) & Steve Bohaty

Rapid climate change and bacterial blooms in deep time
Jessica Whiteside, Phyllis Lam & Steve Bohaty

Causes and consequences of geomagnetic change: a well calibrated high-resolution study on East China Sea and Japan Sea sediments
Chuang Xuan, Alan Kemp & Ryuji Tada (Tokyo)

Contact us

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SPITFIRE Southampton Partnership for Innovative Training of Future Investigators Researching the Environment