PhD opportunities in Palaeoceanography and Palaeoclimate
Entry 2018

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.

Understanding the causes of millennial scale geomagnetic change: A benchmark record and new global synthesis for late Pleistocene
Dr Chuang Xuan, Prof Paul Wilson, Dr Monika Korte (GFZ, Germany)

Evolution of Antarctic circumpolar circulation and high-latitude climate: new insights from the Southwest Atlantic Ocean
Dr Steve Bohaty, Dr Claus-Dieter Hillenbrand (British Antarctic Survey), Dr Richard Boardman (UoS, Engineering and the Environment, µ-VIS X-Ray Imaging Centre)

Abrupt climate change during the last deglaciation: linking records from Greenland to central Europe
Prof Alan Kemp, Prof Pete Langdon (UoS, Geography)

Can silicate weathering regulate atmospheric CO2 during periods of rapid climate change? Testing the negative feedback hypothesis in the geological record
Dr Christopher Pearce, Dr Mike Clare, Dr Steve Bohaty, Prof Gavin Foster

The role of atmospheric CO2 in the first great ice ages: insights from very high-resolution boron isotope records
Prof Gavin Foster, Prof Paul Wilson, Dr Thomas Chalk, Prof Eelco Rohling

Archaeology and Volcanism in Northern Japan; Combining tephrachronology with sediment metabarcoding
Prof Tony Brown (UoS, Geog & Env), Prof Paul Hughes (UoS, Geog & Env)

Coastal impacts for climate scenarios that exceed 2°C warming
Dr Philip Goodwin, Dr Ivan Haigh, Prof Robert Nicholls (UoS)

Aridity in the Greater Middle East: palaeoclimate insights into human-induced climate change and the history of our hominid ancestors
Prof Paul Wilson, Dr Steve Bohaty, Dr Anya Crocker (UoS)

Contact us
GSNOCs Office Team: +44(0)23 8059 4785 | gsnocs@southampton.ac.uk
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