Ocean and Earth Science,
National Oceanography Centre
Southampton

UNIVERSITY OF Southampton

Graduate School, National Oceanography Centre Southampton

PhD opportunities in Marine Biogeochemistry

Entry 2016

The Marine Biogeochemistry research group conducts innovative research to elucidate the biogeochemical operation of the ocean. We address major societal issues, including the role of the oceans in the carbon cycle, geoengineering solutions to climate change and the environmental management of the oceans. We work closely with NERC colleagues in the building and with other collaborators worldwide. The research group includes some 50 staff and PhD students, has world-class facilities and an active programme of sea-going research.

Modelling the impact of macronutrients on the eutrophication status of small estuaries
Duncan Purdie & Ivan Haigh

Estuarine Cycling of Oxygenated Volatile Organic Compounds (OVOCs)
Joanna Dixon and Rachael Beale (PML) & Duncan Purdie

Impact of differential nutrient remineralisation on the Biological Carbon Pump
C. Mark Moore, Alex J. Poulton, Adrian Martin & Samar Khatiwala (University of Oxford)

Photosynthesis in a warming ocean
Tom Bibby, Alex J Poulton, Anna Hickman, Amanda Cockshutt (Mount Allison, Canada), & Doug Campbell (Mount Allison, Canada)

The molecular basis of natural phytoplankton community responses to light availability and iron limitation in the Southern Ocean
C. Mark Moore, Tom Bibby, Maeve Lohan & Phil Boyd (University of Tasmania)

How does diversity impact the role of diatoms in the Oceanic Biological Carbon Pump?
Alex J Poulton, Stuart Painter, Tom Bibby & Duncan Purdie

The role of zooplankton in trace metal cycling and P availability in subtropical gyres
Daniel Mayor, Maeve Lohan, Alex J Poulton & Alessandro Tagliabue (University of Liverpool)

Constraining the global nitrogen cycle with the nitrate dual isotopes
Mathis Hain, Adrian Martin, Raffaele Bernardello (NOC, Southampton) & Daniel Sigman (Princeton)

Simulating the hydrothermal alteration of the oceanic crust
Mathis Hain, Damon Teagle, Lead Supervisor - Roz Coggon & Richard Herrington (NHM)

Physical controls on ocean primary production
Anna Hickman, Bob Marsh, Jonathan Sharples (University of Liverpool) & Stephanie Dutkiewicz (MIT)

The Role of Microorganisms in Greenhouse Gas Captures via Fluid-Rock Interactions
Phyllis Lam, Juerg Matter & Damon Teagle

Zinc and iron bioavailability and acquisition in the subtropical ocean
Maeve Lohan, C. Mark Moore, Doug Connelly, Alessandro Tagliabue (University of Liverpool) & Claire Mahaffey (University of Liverpool)

Contact us

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