

DECEMBER 2007 STANDARD GRANT AWARDS

Lead Ref		Project Title	Institution
PANEL A			
NE/F021909/1	Dr GW Nicol School of Biological Sciences	Do Archaea dominate nitrification in acid soils?	University of Aberdeen
NE/F017294/1	Dr CJ Nichol Sch of Geosciences	Remote sensing of solar induced fluorescence and the Photochemical Reflectance Index (PRI) for carbon uptake in two contrasting forest ecosystem types	University of Edinburgh
NE/F020422/1	Dr A McLeod Sch of Geosciences	Mechanisms for aerobic methane production from terrestrial vegetation	University of Edinburgh
NE/F019254/1	Dr T Bibby School of Ocean and Earth Science	Quantitification of the metabolic proteins that drive biogeochemical cycles in marine systems	University of Southampton
NE/F020937/1	Professor EG Nisbet Earth Sciences	Isotopic constraints on the Arctic methane budget	Royal Holloway, Univ of London
NE/F018983/1	Professor RJ Parkes School of Eath, Ocean and Planetary Sciences	Exploring the biodiversity, interactions and controls of prokaryotic communities driving methane flux in marine sediments.	Cardiff University
PANEL B			
Lead Ref		Project Title	Institution
NE/F016964/1	Professor ME Viney Biological Sciences	The genetic control and the phenotypic response of major life-history traits of the nematode <i>Caenorhabditis elegans</i> under environmental stress.	University of Bristol
NE/F019033/1	Professor D Beerling Animal and Plant Sciences	Functional and evolutionary significance of symbiotic fungal associations in lower land plants	University of Sheffield
NE/F019610/1	Professor M Boots Animal and Plant Sciences	The evolution of virulence in a vector borne disease	University of Sheffield

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NE/F017936/1	Professor AM Lister	Biotic responses to environmental change: dwarf mammals of Mediterranean islands as evolutionary experiments in the Quaternary	
	Palaeontology		The Natural History Museum
NE/F018991/1	Dr D Filatov	Genome-wide analysis of speciation and adaptation in closely related plant species	
	Plant Sciences		University of Oxford
NE/F021291/1	Dr T Barraclough	Ecological and evolutionary responses to changing environments in a laboratory species assemblage	
	Biological Sciences		Imperial College London
NE/F018096/1	Dr J Montgomery	Does ancient human dental enamel record short-term seasonality? Investigating time-lines in teeth with computed tomography and oxygen	
	Sch of Archaeological Geog and Env Sci		University of Bradford
NE/F02083X/1	Dr DS Richardson	Telomeres as biomarkers of cost and quality in a wild vertebrate population	
	Biological Sciences		University of East Anglia

PANEL C

Lead Ref		Project Title	Institution
NE/F019440/1	Dr I Barber	ADAPTATION AND PLASTICITY IN NEST CONSTRUCTION: BEHAVIOURAL AND MOLECULAR FACTORS AFFECTING DESIGN IN AN EXTENDED PHENOTYPIC	
	Biology		University of Leicester
NE/F021402/1	Professor X Lambin	Population dynamics of resource limited predators: Individuals differences and condition dependent dispersal	
	Zoology		University of Aberdeen
NE/F017774/1	Dr JTP Copley	Hydrothermal activity and deep-ocean biology of the Mid-Cayman Rise	
	School of Ocean and Earth Science		University of Southampton
NE/F018606/1	Dr JK Hill	Adaptation for future climate warming: the role of habitat creation in promoting species' range shifts.	
	Biology		University of York
NE/F018355/1	Professor RK Butlin	Source and maintenance of recognition cues in ant societies	
	Animal and Plant Sciences		University of Sheffield

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NE/F021690/1	Dr S Bearhop Biosciences	University of Exeter
NE/F019165/1	Professor NB Metcalfe Environmental and Evolutionary Biology	University of Glasgow
PANEL D		
Lead Ref	Project Title	Institution
NE/F020600/1	Dr SM Davies School of the Environment and Society	Swansea University
NE/F021399/1	Dr PW Nienow Sch of Geosciences	University of Edinburgh
NE/F018037/1	Dr D Siveter Earth Sciences	University of Oxford
NE/F018266/1	Professor BJ Wood Earth Sciences	University of Oxford
NE/F017871/1	Professor L Stixrude Earth Sciences	University College London
NE/F017960/1	Professor A Baker Sch of Geography, Earth & Env Sciences	University of Birmingham
NE/F019920/1	Dr DR Faulkner Earth and Ocean Sciences	University of Liverpool
NE/F018010/1	Professor H Pinkerton Environmental Science	Lancaster University

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NE/F019092/1	Dr D Vance	Nickel stable isotopes as tracers of modern and ancient biogeochemical processes	
	Earth Sciences		University of Bristol
NE/F016832/1	Dr DC Catling	Investigating the Precambrian atmosphere, ocean and biosphere with selenium isotopes.	
	Earth Sciences		University of Bristol
NE/F017421/1	Professor JD Blundy	A sub-volcanic chemical pump: experimental and theoretical investigations of volatile element transport beneath volcanoes	
	Earth Sciences		University of Bristol
NE/F019084/1	Dr M Walter	Metallurgy at Extreme Conditions: Molten Iron-Alloy Constraints on the Light Elements in Earth's Core	
	Earth Sciences		University of Bristol
NE/F017081/1	Professor MA Carpenter	Elastic anomalies and anelastic dissipation mechanisms associated with phase transitions in minerals.	
	Earth Sciences		University of Cambridge
NE/F020325/1	Dr M Holness	Solidification in mafic magma chambers	
	Earth Sciences		University of Cambridge
NE/F020066/1	Dr S Sherlock	Understanding excess argon by ultra-high resolution $^{40}\text{Ar}/^{39}\text{Ar}$ laserprobe analysis	
	Earth Sciences		Open University
PANEL E			
Lead Ref		Project Title	Institution
NE/F020252/1	Dr AJ Nurser	How does near-surface mixing influence ventilation over the Southern Ocean?	
	NERC Strategic Research Division		National Oceanography Centre
NE/F016751/1	Dr T Van De Flierdt	Deglacial Atlantic Ocean Ventilation Rates	
	Earth Science and Engineering		Imperial College London
NE/F017979/1	Dr MC Warren	Actinide uptake by carbonates: modelling of molecular processes in radioactive waste systems	
	Earth Atmospheric and Env Sciences		The University of Manchester

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NE/F017316/1	Professor GM Henderson COMPREHENSIVE CALIBRATION OF CRITICAL PALEOCEANOGRAPHIC PROXIES	University of Oxford
NE/F018126/1	Dr KW Burton Quantifying the Strontium Budget of the Oceans, past and present, using coupled Radiogenic and Stable Strontium Isotopes	University of Oxford
NE/F019483/1	Dr DWT Jackson Secondary airflow patterns under offshore winds over coastal foredunes:	University of Ulster
NE/F016905/1	Dr A B Smith Comparing land-based and deep-sea rock and fossil records of microplankton	The Natural History Museum
NE/F01807X/1	Dr Y Najman River capture in the Easternmost Himalaya: Testing erosion-tectonic feedback models using palaeo-Brahmaputra deposits of the Bengal Basin, Bangladesh	Lancaster University
NE/F020406/1	Professor W Davison Micro-heterogeneity of carbon mineralization and metal mobilisation in marine sediments	Lancaster University
NE/F017456/1	Professor C Snape Establishing hydrolysis as an effective technique for the determination and isolation of pyrogenic carbon in samples from the natural environment	University of Nottingham
NE/F020732/1	Dr JF Boyle Testing the apatite depletion hypothesis for early Holocene ecosystem acidification using the lake sediment record at Krakenes, Norway	University of Liverpool
NE/F020368/1	Dr A Verhoef Mitigation potential of horizontal Ground Coupled Heat Pumps for current and future climatic conditions: UK environmental modelling studies	University of Reading
NE/F017383/1	Dr DN Schmidt Past records of ocean acidification - the Palaeogene hyperthermals	University of Bristol
NE/F019289/1	Dr HA Kennedy The role of sea ice dynamics in carbonate mineral production and its fate in the Polar Oceans	Bangor University
NE/F020511/1	Dr J Peakall Flow dynamics and sedimentation in an active submarine channel: a process-product approach	

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Lead Ref	Project Title	Institution
NE/F021313/1	School of Earth and Environment Dr AS Cohen Quantifying seawater redox variations and continental weathering rates through the Paleocene-Eocene Thermal Maximum	University of Leeds
PANEL F		
Lead Ref	Project Title	Institution
NE/F019432/1	Dr E Hesse Development of Ice Crystal and Aerosol Scattering Model for Interpretation of Radiance and Nephelometric Data	University of Hertfordshire
NE/F017391/1	Science and Technology RI Dr P Palmer Quantifying the impact of BOREal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS)	University of Edinburgh
NE/F020651/1	Sch of Geosciences Professor DE Heard Determination of uptake coefficients for heterogeneous loss of HO ₂ radicals to atmospheric aerosols	University of Leeds
NE/F018754/1	Sch of Chemistry Professor P Seakins Reducing uncertainties in Ozone formation via Chamber Studies of VOC Oxidation	University of Leeds
NE/F01791X/1	Sch of Chemistry Dr W Bloss A Laboratory Study of the Photolysis of the ClO Dimer	University of Birmingham
NE/F021194/1	Sch of Geography, Earth & Env Sciences Dr WT Sturges A Century-long Record of Trace Gases in the Northern Hemisphere from the NEEM Ice Core Drilling Project in Greenland	University of East Anglia
NE/F01905X/1	Environmental Sciences Dr JF Hamilton Investigation of Organic Nitrogen in Atmospheric Aerosols	University of York
NE/F01967X/1	Chemistry Professor J Tennyson A database of water transitions	University College London
NE/F020341/1	Physics and Astronomy Dr NRP Harris Seasonal and Interannual Variability of Trace Gases in the Tropical and Extra-tropical Boundary Layer	University of Cambridge
	Chemistry	

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Lead Ref		Project Title	Institution
NE/F018142/1	Dr RG Grainger Oxford Physics	The optical properties of black carbon	University of Oxford
NE/F019467/1	Dr T Rippeth Sch of Ocean Sciences	A New Method for the Estimation of Profiles of Diffusivity in the Stratified Marine Environment	Bangor University