

NEIF Approved Projects 2019

Round	NEIF #	Project Title	Principal Investigator
Panel A - Radiocarbon (Archaeology)			
May-19	NF/2019/1/1	First Footsteps into Northern Sahul	Prof Graeme Barker (University of Cambridge)
May-19	2191	Re-assessing Ibiza's funerary record from Prehistory to the Modern Era: Implications for Colonization in Prehistory and Islamic rule in the Mediaeval period in the Balearic Islands, Spain	Dr Nicholas Marquez-Grant (Cranfield University)
May-19	2189	The Decline of the bear: tracing the extinction of Britain's largest carnivore	Dr Hanna O'Regan (University of Nottingham)
May-19	NF/2019/1/8	Histories of henges: late neolithic monuments on the Milfield Basin, Northumberland, UK	Dr Seren Griffiths (University of Central Lancashire, Preston)
May-19	NF/2019/1/9	Dating the Dispersal & Domestication of the European Rabbit	Prof Naomi Sykes (University of Exeter)
May-19	2190	Dating Inca Quipu from the Lower Ica Valley, Peru	Dr David Beresford-Jones (University of Cambridge)
May-19	2188	Iron Age palaeoenvironments of NW Scotland	Dr Maarten van Hardenbroek (Newcastle University)
May-19	NF/2019/1/13	Manifestations of Empire: Palaeoenvironmental Analysis and the End of Roman Britain	Dr Andy Seaman (Canterbury Christ Church University)
May-19	2192	The Earliest Described Case of Smallpox (osteomyelitis variolosa) in a Human Skeleton	Dr David Erickson (Cranfield University)
Nov-19	2211	At the Waters Edge: Chronological modelling of settlement patterns in Iron Age central Scotland	Dr Derek Hamilton (SUERC, East Kilbride)
Nov-19	2212	Establishing an Absolute Chronological Framework for the Late Chalcolithic (c.4500-3000BCE) Strata at Kani Shaie, Iraqi-Kurdistan	Dr Augusta McMahon (University of Cambridge)
Nov-19	2213	The Radiocarbon dating of Slochd Measach, the 'Giants Grave' Neolithic Chambered Cairn, Nereabolls, Isle of Islay	Prof Steven Mithen (University of Reading)
Nov-19	2215	The Early Neolithic flint mines of Sussex and their wider environs	Prof Joshua Pollard (University of Southampton)
Nov-19	2216	A chronometric investigation into the Kura-Araxes culture in the South Caucasus: a view from Margahovit archaeological site	Prof Mark Pollard (University of Oxford)
Nov-19	2217	Re-evaluating the Epigravettian of Southeastern Europe and dating the first evidence of Palaeolithic rock art in the Balkan Peninsula	Dr Aitor Ruiz-Redondo (University of Southampton)
Nov-19	2218	Radiocarbon dating Zvejnieki	Prof Rick Schulting (University of Oxford)
Panel A - Radiocarbon (Environment)			
May-19	2172	Palaeoclimate and biotic records from the Uruguayan Margin	Dr Tracy Aze (University of Leeds)
May-19	2175	Reconnection of Pacific, Arctic, and Atlantic oceans via Arctic Canada following Termination I: palaeoceanography of a major oceanic gateway	Dr Alix Cage (Keele University)
May-19	2176	Fluxes and source determination of respiring carbon in stored floodplain organic matter downstream of headwater eroding peatlands	Prof Martin G Evans (University of Manchester)
May-19	2177	INTRIGUED	Dr James Rae (University of St Andrews)
May-19	2179	Impact of mid-Holocene drought and pre-Columbian land use upon Bolivian ecotonal tropical forests	Prof Frank E Mayle (University of Reading)
May-19	2180	Establishing the timing of millennial, centennial and decadal abrupt climate events in South Wales during the Last Glacial to Interglacial Transition	Dr Adrian Palmer (Royal Holloway, University of London)
May-19	2182	Late Holocene palaeo-seismology along the southern region of the Rivera Plate, Mexico	Dr Sarah Woodroffe (Durham University)
Nov-19	2195	Aged terrestrial organic carbon in the marine environment: Millennial perspectives on its transfer across the land-ocean interface	Prof William Austin (University of St Andrews)
Nov-19	2196	Assessing the resilience of ancient agricultural systems in the Peruvian Andes to climate change over the last 2000 years	Prof Nicholas Branch (University of Reading)

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Nov-19	2197	Quantifying spatial variability in peatland carbon service delivery	Dr Tim J Daley (University of Plymouth)
Nov-19	2198	Human colonisation and ecosystem dynamics on the Island of 'Utu Vava'u, Tonga	Prof Mary Edwards (University of Southampton)
Nov-19	2199	Abrupt climate shifts in SW Europe during the last glacial and deglaciation	Dr William Fletcher (University of Manchester)
Nov-19	2200	What is the cause of the early 20th century acceleration of global sea-level rise?	Prof Willem Gehrels (University of York)
Nov-19	2201	Rock-derived CO ₂ emissions: Investigating seasonality and the links to geomicrobiology in different lithologies	Prof Robert Hilton (Durham University)
Nov-19	2202	Reconstructing rapid Holocene Arctic climate change and glacier behaviour	Dr Timothy Lane (Liverpool John Moores University)
Nov-19	2203	Linking ecological change, volcanic hazards and human migrations across the southern islands of Cabo Verde (Brava, Fogo and Santiago)	Dr Sandra Nogue (University of Southampton)
Nov-19	2204	Ecosystem dynamics of Amazonian Open Peatlands during the Late Holocene	Dr Peter Ryan (University of Manchester)
Nov-19	2207	Chironomid and long-chain alkenone inferred temperatures from the Shebster Basin, Caithness, during the Last Glacial-Interglacial Transition	Dr Eileen Tisdall (Stirling University)
Nov-19	2208	Iron Age Palaeoenvironments of North West Scotland - Sites 2 and 3: Clachtoll Broch and Loch an Aigeil	Dr Maarten van Hardenbroek (Newcastle University)
Nov-19	2219	Determining the age and growth rate of the nickel hyperaccumulator	Dr Francis Brearley (Manchester Metropolitan University)
Nov-19	2221	Follow up - Transient tracer-based Investigation of Circulation and Thermal Ocean Change (TICTOC)	Dr Heather Graven (Imperial College London)
Panel B - Life Sciences			
May-19	BRIS/132/0419	Quantifying the origin, chemical diversity and dynamics of VOCs within the soil volatilome	Prof Davey Jones (Bangor University)
May-19	BRIS/133/0519	The Kura-Araxes Culture: a biomolecular investigation into pottery use and consumption at Gegharot and Shengavit, Armenia	Prof A Mark Pollard (University of Oxford)
May-19	BRIS/135/0719	Nitrogen Cycling and Microbial Community Structure in the Atacama Desert – A Mars-Analogue study	Dr Aubrey Zerkle (University of St Andrews)
May-19	CEH_L_130_05_2019	Quantifying the use of Peatland Respired Methane and Carbon Dioxide by Sphagnum Moss through Field Studies	Dr Sabine Lengger (University of Plymouth)
May-19	CEH_L_131_05_2019	Using Diatoms as representative indicators of nitrogen dynamics in connected lake-river ecosystems	Dr P Wynn (Lancaster University)
May-19	EK314-01/19	The regulatory basis of plastic phenotypic changes in brown trout in response to invasive brook trout	Dr Shaun Killen (University of Glasgow)
May-19	EK316-03/19	Seabird-fisheries interactions – using stable isotopes to assess the importance of fisheries discards for black-browed albatrosses in the Falkland Islands	Dr Stephen Votier (University of Exeter)
May-19	EK320-07/19	Individual specialisation in two abundant flatfish species in temperate coastal nursery grounds	Prof Nick Polunin (Newcastle University)
May-19	EK322-09/19	Exploring Schistocephalus solidus driven trophic niche specialisation in three sympatrically occurring ecotypes of three-spined stickleback (<i>Gasterosteus aculeatus</i> L.)	Dr Iain Barber (Nottingham Trent University)
May-19	EK323-10/19	A multi-trophic stable isotope approach to uncover the effects of urbanisation on diet and fitness of birds	Dr Davide Dominioni (University of Glasgow)
Nov-19	BRIS/136	Developing a novel method for the measurement of $\delta^2\text{H}$ values of free fatty acids using GC-TC-IRMS for building local palaeoclimate records at archaeological sites	Dr Melanie Roffet-Salque (University of Bristol)
Nov-19	BRIS/137 EK326-13/19	An isotopic approach to understanding Carbon cycling and food webs in sedimentary environments under ocean warming scenarios	Dr Clare Woulds (University of Leeds)
Nov-19	BRIS/138	The Neogene Evolution of the NE Atlantic Basin	Dr James Bendle (University of Birmingham)

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Nov-19	BRIS/139	The Kura-Araxes Culture: a biomolecular investigation into pottery use and consumption at Early Bronze Age archaeological sites in Armenia	Prof A Mark Pollard (University of Oxford)
Panel C - Geology & Environment			
May-19	IP-19010619	Reconstructing palaeoenvironmental conditions in the Egyptian Nile Valley from the Old Kingdom to present	Dr Kathryn Adamson (Manchester Metropolitan University)
May-19	IP-1903-0619	Is the South Atlantic Anomaly a persistently reoccurring feature of Earth's magnetic field?	Prof Andy Biggin (University of Liverpool)
May-19	IP-1904-0619	Tara Deep: Genesis, Context and Potential in Navan, Co. Meath, Ireland	Prof Adrian Boyce (SUERC, East Kilbride)
May-19	IP-1906-0619	Fenitisation associated with alkaline-silicate magmatism, Gardar Province, SW Greenland. Implications for high-field-strength-element (HFSE) mobility in late-stage fluids	Prof Adrian A Finch (University of St Andrews)
May-19	IP-1907-0619	The influence of crustal assimilation on magma generation and eruptive behaviour: an oxygen isotope study of the Aeolian arc, Italy	Dr Ralf Gertisser (Keele University)
May-19	IP-1909-0619	The source of critical-metal mineralisation in alkaline-silicate and carbonatite systems	Dr Kathryn Goodenough (BGS Edinburgh)
May-19	IP-1910-0619	Holocene climate evolution in Arctic Alaska and its link to Aleutian Low variability	Dr Andrew Henderson (Newcastle University)
May-19	IP-1912-0619	Geodynamically controlled, regional-scale Ni-Cu-PGE fertility along craton margins	Dr David Holwell (University of Leicester)
May-19	IP-1913-0619	Lessons from the past: Deoxygenation of the ocean	Dr Babette Hoogakker (Heriot Watt University, Edinburgh)
May-19	IP-1914-0619	Deep sea biotic responses during Cretaceous Oceanic Anoxic Event (OAE) 2 in the southern high latitudes	Dr Sev Kender (University of Exeter)
May-19	IP-1915-0619	Oceanographic and vegetation changes across the Palaeocene-Eocene Thermal Maximum in NW Europe and the Arctic	Dr Sev Kender (University of Exeter)
May-19	IP-1917-0619	Improved Dating of Modern Human Evolution in the Middle - Late Pleistocene, East Africa	Prof Christine Lane (University of Cambridge)
May-19	IP-1918-0619	Stable C Isotope Analyses Coupled to XRF Core Scanning through a UK Black Shale Giant	Prof Melanie J Leng (BGS, Nottingham)
May-19	IP-1919-0619	Reconstructing oceanic crustal accretion at slow-spreading mid-ocean ridges	Dr Johan Lissenberg (Cardiff University)
May-19	IP-1922-0619	An Integrated Accessory Mineral Approach to Understanding Post-Subduction Magmatism and Mineralisation	Dr Andrew Miles (University of Leicester)
May-19	IP-1924-0619	Holocene diatom and sponge spicule oxygen isotope ratios from the west Antarctic Peninsula: exploring seasonal and depth related isotope offsets using paired samples	Dr Jennifer Pike (Cardiff University)
May-19	IP-1925-0619	Resolving water sources of highly metal/metalloid (arsenic) polluted oxidised surface and groundwater from different basins in northernmost Chile	Prof David Polya (University of Manchester)
May-19	IP-1926-0619	Changing Shipping Emissions: Impact on sulphate Aerosol in the marine atmosphere (CSEIA)	Dr Zongbo Shi (University of Birmingham)
May-19	IP-1927-0619	Paleoceanographic context of organic matter deposition on the Yangtze craton, South China during the Ediacaran Period	Prof Graham Shields (University College London)
May-19	IP-1929-0619	Iron Age Palaeoenvironments of North West Scotland	Dr Maarten van Hardenbroek (Newcastle University)
May-19	IP-1930-0619	Does ²³⁸ U/ ²³⁵ U zircon vary within magmatic systems? Exploring implications for U-Pb geochronology	Dr Simon Tapster (BGS Keyworth)
Nov-19	IP-1933-1119	Deciphering the magmatic plumbing system of a complex composite ocean island volcano, Ascension Island, S Atlantic - accessory minerals isotope and trace element insights into the plutonic-volcanic connection	Dr Katy Chamberlain (University of Derby)
Nov-19	IP-1937-1119	Spatial and temporal variation of landscape evolution from dating of cave deposits	Dr Andrew Farrant (BGS Keyworth)
Nov-19	IP-1938-1119	Historical sea-level changes in southeastern Australia	Prof Roland Gehrels (University of York)

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Nov-19	IP-1939-1119	A multi-nutrient isotope approach to understand the impact of water treatment on inorganic nitrogen and phosphorus in public water supplies.	Prof Daren Goody (BGS Wallingford)
Nov-19	IP-1940-1119	Deciphering the signature of fluid/rock interactions in the lower ocean crust: Insights from Oman DP Hole GT1A, GT2A, and GT3A	Dr Michelle Harris (University of Plymouth)
Nov-19	IP-1941-1119	Nutrient utilization and diatom productivity changes in the low-latitude Atlantic: Response to Southern Ocean leakage across the last glacial	Ass Prof Katharine Hendry (University of Bristol)
Nov-19	IP-1942-1119	Fracture connectivity and fluid sourcing in the Cleveland Basin	Prof Robert Holdsworth (Durham University)
Nov-19	IP-1943-1119	2,000 years of hydrological change in Africa: implications for future climate scenarios.	Ass Prof Matthew Jones (University of Nottingham)
Nov-19	IP-1944-1119	Sea surface temperature and hunter-gatherer marine resource use from marine carbonates in northern Japanese prehistory.	Prof Julia Lee-Thorp (University of Oxford)
Nov-19	IP-1948-1119	Understanding long-term environmental conditions to inform sustainable aquaculture development in Lake Victoria, Kenya	Prof Suzanne McGowan (University of Nottingham)
Nov-19	IP-1949-1119	Mobile Merchants: A multi-isotope study of human movement and diet in Middle Saxon East Anglia.	Ass Prof Hannah O'Regan (University of Nottingham)
Nov-19	IP-1950-1119	Reconstructing variability of the "cold water route" through the late Pleistocene	Dr Victoria Peck (BAS Cambridge)
Nov-19	IP-1951-1119	Constraining the thermal histories of the Carboniferous Midland Valley of Scotland: a potential resource for unconventional gas and shale oil?	Dr Cristina Persano (University of Glasgow)
Nov-19	IP-1952-1119	Constraining the timing of crustal thickening, kyanite metamorphism and burial-exhumation rates in the Zaskar Himalaya	Prof Michael Searle (University of Oxford)
Nov-19	IP-1956-1119	in situ dating of authigenic monazite from the welsh Basin	Prof Jan Zalasiewicz (University of Leicester)
Nov-19	IP-1958-1119 EK307-08/18	Macroecological study of the field metabolic rates of marine fishes using otolith carbon stable isotopes	Ass Prof Clive Trueman (University of Southampton)
Nov-19	9198	δ -Cl analyses of fault planes in southern Italy to test hypotheses on fault interaction and earthquake recurrence	Prof Gerald Roberts (Birkbeck College, London)
Nov-19	9199	Understanding the controls on the extension and the timing of the Patagonian Ice Sheet during the last glacial cycle	Prof Michael Bentley (Durham University)
Nov-19	9201	Reconstructing Ice Retreat and Proglacial Lake Drainage for the Last Irish Ice Sheet	Dr Cathy Delaney (Manchester Metropolitan University)