

NEIF Approved Projects 2021

| Round | NEIF # | Project Title | Principal Investigator |
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| Panel A - Radiocarbon (Archaeology) | | | |
| May-21 | 2362 | Establishing a new chronology for early rice in Bangladesh | Prof A Bogaard (University of Oxford) |
| Jun-21 | 2364 | Iron Age Palaeoenvironments of North West Scotland – Sites 2&3 | Dr M van Hardenbroek (University of Newcastle) |
| May-21 | 2366 | Sea of Moyle: Linking population history, resilience and landscape change of island communities. | Prof A G Brown (University of Southampton) |
| May-21 | 2367 | Dating Grave Circle B | Dr K A Wardle (University of Birmingham) |
| May-21 | 2369 | Wemyss, Long Island: a rare stratified site in The Bahamas | Prof R Schulting (University of Oxford) |
| May-21 | 2370 | Dating Mesolithic and early Neolithic intertidal archaeology, Goldcliff, Wales | Prof M G Bell (University of Reading) |
| May-21 | 2371 | The origins of Scotland's unique early Holocene cetacean skeleton accumulation | Dr R A Staff (SUERC) |
| May-21 | 2372 | The temporal dynamics of the Early Neolithic cemetery of Aiterhofen (south-east of Germany). A contribution from radiocarbon dating and Bayesian modelling. | Prof M G Bickle (University of York) |
| May-21 | 2373 | Early Human-Animal Communities in the Mongolian Gobi | Dr R Bendrey (University of Edinburgh) |
| May-21 | 2386 | Reconstructing mobility and subsistence strategies in Middle and Upper Palaeolithic Portuguese Estremadura through high resolution strontium and oxygen isotope analysis | Dr W G Pike (University of Southampton) |
| May-21 | 2388 | Chronology of Late Pleistocene-Holocene human occupation in Central Tunisia | Prof N D Drake (King's College London) |
| May-21 | 2389 | Relating Fluvial and Social Dynamics in prehispanic Nicaragua: Archaeological study of Human resilience to the Mayales River Valley between AD 900-1250 | Dr A G Geurds (University of Oxford) |
| May-21 | 2390 | Pre-Colombian agriculture on Puerto Rico: a direct archaeobotanical approach[rev] | Prof D Q Fuller (University College London) |
| May-21 | 2355 | Precise 14C age constrain of central American sediment carbonate stores | Dr S Z Zarkogiannis (University of Oxford) |
| May-21 | 2421 | Palatial versus Postpalatial: dating sociopolitical change in the funerary landscape of the 'Mycenaean periphery'. | Dr M B Buckley (University of Manchester) |
| Nov-21 | 2436 | Tracing the Water Management Practices Applied to the Eastern Expansion of Wheat and Barley in Prehistory | Dr R A Staff (SUERC) |
| Nov-21 | 2438 | The French Connection: diet, health and migration in rural Surrey – the Priory Orchard cemetery c. AD 850-1200 | Dr L Betti (Roehampton University) |
| Nov-21 | 2477 | Middle Holocene Coprolites from Paisley Caves, Oregon | Dr L M Shillito (University of Newcastle) |
| Panel A - Radiocarbon (Environment) | | | |
| May-21 | 2506 | Using a multi-isotope approach to understand carbon cycling and redox dynamics in different coal mine water settings in the South Wales Coalfield | Prof A C Mitchell (University of Wales, Aberystwyth) |
| May-21 | 2498 | Improving socio-ecological resilience to wildfire in the UK | Dr J Woodbridge (University of Plymouth) |
| May-21 | 2499 | Disentangling environmental change in the Amazon: vegetation responses to Holocene drivers in the Yasuní National Park (Ecuador) | Dr R K Smedley (University of Liverpool) |
| May-21 | 2500 | Sources, Sinks and Subsidies of Carbon within Saltmarsh Sediments | Prof W E N Austin (University of St Andrews) |

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| May-21 | 2501 | When did the spiny water flea invade North America? | Prof A J Tanentzap (University of Cambridge) |
| May-21 | 2502 | Resilient, biodiverse forests in an Anthropocene landscape | Dr J C Berrio (University of Leicester) |
| May-21 | 2503 | Extending Northeast Atlantic records beyond observations to better understand natural climate variability: A pilot study | Dr P L Moffa (Durham University) |
| May-21 | 2504 | Palaeoecological implications of seawall removal at Gibraltar Point, UK | Dr K Beck (University of Lincoln) |
| May-21 | 2505 | Quantifying responses to abrupt climate change in the Andes, South America: methodological testing of RockEval pyrolysis | Dr S Black (University of Reading) |
| May-21 | 2509 | Do peatland wildfires change the age of carbon released into rivers? | Dr J F Dean (University of Bristol) |
| May-21 | 2510 | Landscape age, soil development and dust fluxes in the Kangerlussuaq area of SW Greenland | Prof N J Anderson (Loughborough University) |
| May-21 | 2511 | How do submarine canyons transport and bury particulate organic carbon from rivers to the deep-sea? | Prof P J Talling (Durham University) |
| May-21 | 2512 | Resubmission of R* graded NEIF Panel A proposal 2443.1021 | Dr L J Clarke (Manchester Metropolitan University) |
| May-21 | 2513 | Determining the sources and controls of methane and carbon dioxide emissions from acid mine water and its associated treatment, using radiocarbon analysis | Dr A E Pickard (CEH, Edinburgh) |
| Nov-21 | 2423 | Support FARGO | Dr B Hoogakker (Heriot-Watt University) |
| Nov-21 | 2425 | As Good as (G)Old? Comparing Biodiversity and Ecosystem Services of Restored and Natural Mangrove Forests in the Wallacea Region (CoReNat) | Prof U Salzmann (Northumbria University) |
| Nov-21 | 2439 | CongoPeat | Dr I T Lawson (University of St Andrews) |
| Nov-21 | 2441 | Dating the first palaeoecological record of forest change on the endemic-rich island of São Tomé, Gulf of Guinea (central Africa) | Dr S N Nogué (University of Southampton) |
| Nov-21 | 2442 | Quantifying the carbon capture potential of legacy steel wastes: Insight from the ¹⁴ C activity of inorganic carbon in travertine deposits, Consett Co. Durham. | Dr E T Tipper (University of Cambridge) |
| Nov-21 | 2445 | A Multi-Tracer Approach to Understand Groundwater Resilience in the Kathmandu Valley | Prof D C Goody (British Geological Survey) |
| Panel B - Life Sciences | | | |
| May-21 | 2341 | Examining the causes of large mammal extirpations in the Alaskan interior since the late P | Dr H L Mackay (Durham University) |
| May-21 | 2342 | Identification of dung biomarkers from Abu Hureyra | Dr L Cramp (University of Bristol) |
| May-21 | 2343 | Understanding the impact that thermal maturity has on branched Glycerol Dialkyl Glycerol | Dr J Bendle (University of Birmingham) |
| May-21 | 2357 | Does the composition of AA transporters influence ability and rate of uptake of AAs in cya | Dr P Sanchez-Baracaldo (University of Bristol) |
| May-21 | 2358 | $\delta^{13}\text{C}$ isotope analysis of extracted lipids from newly discovered Amazonian peatlands | Dr C Gauchotte-Lindsay (University of Glasgow) |
| May-21 | 2359 | Does DNA methylation facilitate ecological niche specialisation during adaptive radiation in | Prof M J Genner (University of Bristol) |
| May-21 | 2424 | Modelling dietary niche and competition amongst dolphin species in Scottish waters | Dr C Magill (Heriot-Watt University) |
| Nov-21 | 2426 | Disentangling the diet of Great Black-backed Gulls <i>Larus marinus</i> at the individual level | Dr E Masden (University of Highlands and Islands) |
| Nov-21 | 2427 | Proof of concept of a triple isotope (C, N, H) approach for identifying macroalgal C contrib | Dr C Woulds (Leeds) |
| Nov-21 | 2429 | Lifetime migratory behaviour of tropical killer whales (<i>Orcinus orca</i>) from stable isotopes in | Prof S K Hooker (St Andrews) |

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| Nov-21 | 2430 | Identifying moult characteristics in the Maltese Yelkouan Shearwater | Dr R Nager (Glasgow) |
| Nov-21 | 2431 | Stable isotope compositions of captive mandrill tissues from a controlled feeding experiment | Dr J Newton (SUERC) |
| Panel C - Geology & Environment | | | |
| May-21 | 2356 | Reconstructing late Holocene hydroclimate variability in the tropical South Pacific using lake sediment archives and oxygen isotopes | Prof D A Sear (University of Southampton) |
| May-21 | 2374 | The chemistry and isotopic signature of earthquake rupture | Dr C Menzies (Durham University) |
| May-21 | 2375 | Lessons from the past: Deoxygenation of the ocean | Dr B Hoogakker (Heriot-Watt University, Edinburgh) |
| May-21 | 2376 | Dolomite in Snowball Earth: the Port Askaig Formation | Dr I Boomer (University of Birmingham) |
| May-21 | 2377 | Dating early cements in the Ediacaran Nama Group, Namibia | Prof R A Wood (University of Edinburgh) |
| May-21 | 2378 | The timing of salt movements in NE England & temporal relationship to proto-Iceland plume-related regional tilting | Prof R E Holdsworth (Durham University) |
| May-21 | 2380 | Late-Quaternary fault slip rates in the Malawi Rift from age-estimates of offset alluvial fan surfaces | Prof J Biggs (University of Bristol) |
| May-21 | 2381 | Dating diagenesis for CO ₂ storage through pore-scale isotope analysis | Dr J C Rushton (British Geological Survey) |
| May-21 | 2382 | Reconstructing Neolithic landscape use in north-west France | Dr S Neil (University of Oxford) |
| May-21 | 2383 | Causes of intraplate magmatism on the Cameroon line | Prof J G Fitton (University of Edinburgh) |
| May-21 | 2384 | When did the cows come home? A multi-isotope exploration of local and regional grazing patterns in Bronze Age Lincolnshire | Dr H J O'Regan (University of Nottingham) |
| May-21 | 2387 | Fogo magmagenesis full submission | Prof H Downes (Birkbeck College, University of London) |
| May-21 | 2392 | Reef refugia out of the shadows: dynamics of marginal coral reef ecosystems in the Coral Triangle | Dr S Sosdian (Cardiff University) |
| May-21 | 2393 | Drainage reorganisation revealed by CRN concentration in sands | Dr M Attal (University of Edinburgh) |
| May-21 | 2394 | Timing of crust formation and ophiolite obduction of the Lizard Complex, Cornwall | Dr R Palin (University of Oxford) |
| May-21 | 2396 | Constraining the longevity of a passive margin fault zone: NE Atlantic margin | Dr M K Reichow (University of Leicester) |
| May-21 | 2398 | Oceanographic and biotic changes in Australia during Oceanic Anoxic Events | Dr S Kender (University of Exeter, Penryn) |
| May-21 | 2399 | Astronomical tuning, a new tool for dating oceanic ferromanganese crusts? | Dr P M J C Josso (British Geological Survey) |
| May-21 | 2401 | CO ₂ sources and sinks in the Ganga catchment: a source to coast 87Sr/86Sr assessment | Dr D Magnone (University of Lincoln) |
| May-21 | 2402 | Deciphering the geochemical evolution of methane cold seeps using radiogenic U-Th, $\delta^{34}\text{SCAS}$, and $\delta^{34}\text{SPyr}$ microanalyses | Dr A B Burke (University of St Andrews) |
| May-21 | 2404 | U-Pb geochronology of magnetite for paleomagnetic applications | Dr C I O Nichols (University of Oxford) |
| May-21 | 2406 | Understanding the nature of water and organic matter delivered to early Earth: A heaven-sent opportunity | Dr L H Hallis (University of Glasgow) |
| May-21 | 2407 | Reconstructing the tempo of explosive arc volcanism in the Mexico City region | Dr V C Smith (University of Oxford) |

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| May-21 | 2411 | Diatom biogenic silica oxygen isotope measurements of annual laminated diatomite beds from OI Njorowa Gorge (Kenya) dated to first dispersal of Homo sapiens out of Africa | Prof M A Maslin (University College London) |
| May-21 | 2414 | Iron Age Palaeoenvironments of NW Scotland | Dr M van Hardenbroek (University of Newcastle) |
| May-21 | 2415 | Determining the routing of H from feed and water to ruminant enteric methane using a feeding experiment | Dr M Roffet-Salque (University of Bristol) |
| May-21 | 2416 | Central Mediterranean rainfall and global marine circulation patterns during the Last Glacial and Holocene | Prof M J Leng (University of Nottingham) |
| May-21 | 2417 | Constraining the chronostratigraphy of the Upper Jurassic Morrison Formation | Dr S C R Maidment (Natural History Museum, London) |
| May-21 | 2418 | Temporal record of methane emissions from a large pockmark in the Central North Sea | Dr A L Lichtschlag (University of Southampton) |
| May-21 | 2419 | An integrated textural and chemical approach to utilising accessory minerals | Dr A J M Miles (University of Leicester) |
| Nov-21 | 2447 | The role of magmatism in Archean Au mineralisation: geochronological and stable isotope fingerprinting at the Gokona Deposit, Northern Tanzania | Dr J S Lambert-Smith (Cardiff University) |
| Nov-21 | 2450 | How, what and when do geochronometers record in deformed metamorphic rocks? | Dr C J Warren (Open University) |
| Nov-21 | 2452 | Improving the robustness of apatite U-Th-Pb geochronology | Dr J R Darling (University of Portsmouth) |
| Nov-21 | 2455 | Chasing the elusive glacial expansion during the LGM and Late-glacial in the mountains of Greece | Prof M Spagnolo (University of Aberdeen) |
| Nov-21 | 2456 | Understanding long-term environmental impacts to inform sustainability in Lake Victoria, Kenya | Dr V N P Panizzo (University of Nottingham) |
| Nov-21 | 2457 | When did transhumance start in Iberia? Reconciling $\delta^{18}O$, $\delta^{13}C$ and $87Sr/86Sr$ isotope approaches to study sheep mobility | Dr R Madgwick (Cardiff University) |
| Nov-21 | 2459 | Quantifying the relationship between sedimentary organic carbon storage and sedimentary geochemical composition using $\delta^{13}C$ in two contrasting eastern England catchments | Dr D Magnone (University of Lincoln) |
| Nov-21 | 2460 | Dating the Taung Child | Dr P V Vermeesch (University College London) |
| Nov-21 | 2462 | Using coral skeletons to record groundwater nitrogen pollution of the marine environment in the Maldives: A pilot study. | Dr V Ersek (Northumbria University) |
| Nov-21 | 2463 | A deeper insight into batholith construction and its influence on geothermal heat production - a 4D view from the UD-1 borehole in Cornwall | Dr R K Shail (University of Exeter) |
| Nov-21 | 2464 | Determining the rates of nitrogen regeneration by Southern Ocean phytoplankton species through use of a $15N$ tracer method | Dr S F Henley (University of Edinburgh) |
| Nov-21 | 2465 | Understanding phosphorus sources and cycling in sediments from impacted river systems – a novel $206/207Pb$ and phosphate oxygen isotope approach | Dr A M Tye (British Geological Survey) |

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| Nov-21 | 2466 | Dating ice retreat in the inter-stream hinterland of NE Greenland (Kronprins Christian Land) to untangle oceanic and atmospheric controls on ice sheet deglaciation | Dr S J Livingstone (University of Sheffield) |
| Nov-21 | 2467 | Drainage reorganisation drives the birth and destruction of the Kathmandu Basin | Prof H D Sinclair (University of Edinburgh) |
| Nov-21 | 2468 | The timing and drivers of past glaciation in the Southern Carpathians, Romania | Prof D H Roberts (Durham University) |
| Nov-21 | 2469 | Reconciling conflicting slip rate estimates on the Pamir Frontal Thrust | Dr R T Walker (University of Oxford) |
| Nov-21 | 2470 | Late Pliocene and early Pleistocene Indian Summer Monsoon wind variability in response to climate | Dr P Anand (Open University) |
| Nov-21 | 2471 | Pinpointing the onset of subduction with the Earth's oldest Porphyry Cu + Mo deposits | Dr S Tapster (British Geological Survey) |
| Nov-21 | 2474 | A precise P-T-t path for a newly recognised high-pressure metamorphic event in the Scottish Caledonides V2 | Dr W M McCarthy (University of St Andrews) |
| Nov-21 | 2475 | Authigenic ¹⁰ Be dating of an exemplar lacustrine sediment archive, Nam Co, Tibetan Plateau | Dr L J Clarke (Manchester Metropolitan University) |
| Nov-21 | 2476 | Assessing isotopes as a means for the provenancing of ancient iron artefacts | Prof S E Harding (University of Nottingham) |