



Statement of Community Need: NERC Scientific Support and Facilities Panel

NERC NC S&F Strategic Need Assessment Group (SNAG) Panel Outcomes from the July 2021 Panel.

Below are the titles and lead authors of Statements of Community Need, relating to NERC National Capability Round 2 Commissioning. Statements of community need were led by an individual and co-created by a research community. There is no funding attached to the outcomes at this stage, statement ideas prioritised by the SNAG panel are grouped into thematic areas which will be scoped further at a deep dive stage in 2022 to determine specific capability requirements.

To note: ideas that were unsuccessful for further scoping are not listed below.

Atmospheric and Earth Observation Capability:

Lead Author	Statement Title
Williams	Field Spectroscopy Facility
Coe	Observing Facility for Clean Air in UK Cities
Hamilton	AMOF: An internationally leading facility for atmospheric measurements and observatories in the UK
Wooster	NERC Airborne Earth Observation Facility
Groom	NERC Earth Observation Data /Artificial-intelligence Analytics Service- NEODAAS
Kavanagh	EISCAT UK Support Facility
Yeoman	A European sector platform for the SuperDARN radar network

Earth Science and Terrestrial Capability:

Lead Author	Statement Title
Harley	Ion Microprobe Facility: Secondary Ion Mass Spectrometry of the Earth and Environmental Sciences
Panizzo	TESCORF: the terrestrial sediment core research facility
Emmet	A national Network of Sentinel sites for long term, integrated ecosystem surveillance.
Kulesa	Earth - its processes, environments and habitats - a vision for a 21st century imaging facility for all scales and resolutions
Gauci	A UK Canopy Access Facility
Woodward	NEXUS - A Scalable Sensory Mesh for UK Ecosystems



Cross Cutting Capability:

Lead Author	Statement Titles
Paterson	Multi-omics Facility for Environmental Research
Johnson	A new cosmogenic in-situ ¹⁴ C facility for the UK
Leng	The National Environmental Isotope Facility (NEIF)
Blockley	INTEgrated GeochRONology
Davey	Culture Collection of Algae and Protozoa (CCAP): UK Science and Infrastructure for Global Solutions

Marine and Polar Capability:

Lead Author	Statement Title
Murton	SeaDaC: a UK, Seafloor Drilling and Coring facility
Thomas	UK Ice and Snow Repository
Horton	UK Facility for Deep-Ocean Biodiversity Samples (Deep-OBS)
Watson	Marine Carbon Calibration Facility