

2016-17 Strategic capital investments – items awarded

Research Programme	Research Organisation	Capital investment title
Achieving Sustainable Agricultural Systems (ASIST)	CEH; BGS; Rothamsted Research	Mobile GHG Laboratory; N2O field analyser; High resolution hyperspectral imaging radiometer for deployment on drone; Ultra-high resolution hyperspectral radiometer for deployment on drone.
Atmospheric Pollution & Human Health in a Developing Megacity (APHH -China)	King's College London	Chemical characterisation units.
	University of York	National accelerator laboratory.
	University of Birmingham	Chemical ionisation mass spectrometer; Thermal carbon analyser; High time resolution HONO instrument.
Drivers of variability in the South Asian monsoon	University of East Anglia	Seaglider.
Environmental Microbiology and Human Health (EMHH)	University of Essex	Bio-aerosol sampler.
	Bangor University	Atlas SUNTEST XXL; XL3t Ultra X Ray Fluorescence Portable; Elemental Analyser.
Future Climate for Africa (FCFA)	University of Oxford	Lidar.
	CEH	Networks of hydrometeorological stations.
Human-modified Tropical Forests programme (HMTF)	University of Aberdeen	Mobile isotope and GHG laboratory.
Increasing Resilience to Natural Hazards (IRNH)	University of East Anglia	Drone mounted photogrammetry.
Land Ocean Carbon Transfer (LOCATE)	NOC; CEH; BGS; PML	Autonomous Environmental Monitoring System; Cary Eclipse Spectrofluorometer; Organic matter assay system.
North Atlantic Climate System: Integrated Observations, Attribution and Prediction (ACSIS)	NCAS; BAS; NOC; NCEO	Installation of instruments on FAAM; Autonomous surface vehicles; Improved capacity for large aerosol on the FAAM; Aerosol chemical characterisation on the FAAM aircraft; Deep Argo Floats; Telemetry system for RAPID (Western Boundary Current).
Ocean Regulation of Climate through Heat and Carbon Sequestration and Transports (ORCHESTRA)	BAS; NOC; PML; SMRU; BGS	Slocum gliders; Autonomous velocity/density profiling floats (EM-APEX); Autonomous profiling floats
Resource Recovery from	University of Hull	Field-deployable laboratory facility;

Waste		Laboratory fittings.
Soil Security Programme	University of Sheffield	Modules for mobile laboratory: Advion expression-S Compact Mass Spectrometer.
	University of Leeds	Haldrup F55 Grass Harvester.
	University of Manchester	Modules for mobile laboratory: soil and water isotope and carbon analyser.
	University of Aberdeen	Laboratory vehicle conversion; Modules for mobile laboratory: trace gas and stable isotopes.
Unlocking the Potential for Groundwater for the Poor (UPGro)	BGS	Tryptophan and CDOM systems
Using Critical Zone Science to Understand Sustaining the Ecosystem Service of Soil & Water (CZO)	Lancaster University	Suite of geophysical tools.
	University of Exeter	Field-portable high-resolution gamma spectrometry.
	University of Aberdeen	Cosmic ray (COSMOS) probe.