

Success through science partnerships

Polar science is driven by an unrivalled curiosity to understand our world. Some of the best scientific evidence about our changing planet is generated by scientists from world-leading polar research organisations working together. This evidence underpins the policy and business decisions that will help future generations live with and adapt to environmental change.

As one of the Natural Environment Research Council's centres of excellence, British Antarctic Survey is the UK's national Antarctic operator. It is the focal point for UK polar research and its scientists take pride in their ability to attract research partners from leading UK universities and from the international polar community.

State-of-the-art research facilities at our Cambridge offices, Antarctic and Arctic research stations, together with laboratories onboard the ice-strengthened Royal Research Ship *James Clark Ross* provide the platforms for successful partnership working. Innovative engineering and technologies developed by BAS have enabled multi-national research campaigns to explore Antarctica's hidden world. Our operational and logistics expertise delivers effective and efficient access to the Polar Regions.



▲ A BASTwin Otter aircraft, fitted with scientific monitoring equipment, flying over Rothera Research Station on the Antarctic Peninsula

British Antarctic Survey (BAS), a component of the Natural Environment Research Council, delivers and enables world-leading interdisciplinary research in the Polar Regions. Its skilled science and support staff based in Cambridge, Antarctica and the Arctic, work together to deliver research that uses the Polar Regions to advance our understanding of Earth as a sustainable planet. Through its extensive logistic capability and know-how BAS facilitates access for the British and international science community to the UK polar research operation. Numerous national and international collaborations, combined with an excellent infrastructure help sustain a world-leading position for the UK in Antarctic affairs.

For more details of NERC research funding opportunities visit:
www.antarctica.ac.uk/bas_research/funding.php

For more details of collaborative partnerships see:
www.antarctica.ac.uk/bas_research/collaborations.php

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Cover: Halley VI Research Station on the Brunt Ice Shelf, Antarctica



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Partnership Opportunities



www.antarctica.ac.uk

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British Antarctic Survey

Polar Science For Planet Earth

Research Stations

Antarctic and Arctic research stations offer scientists a cutting-edge working environment. The new Halley VI Research Station on the Brunt Ice Shelf in Antarctica provides a unique platform for studying atmospheric phenomena.

Ships

The ice-strengthened research vessel RRS *James Clark Ross* (JCR) is one of the world's most sophisticated floating laboratories. Each year JCR and RRS *Ernest Shackleton* provide research capabilities and logistic support in both the Southern Ocean and in Arctic waters.

Aircraft

British Antarctic Survey operates four Twin Otter aircraft to deploy deep-field parties and work as science platforms. Scientific instrumentation can be deployed for airborne radar, meteorology and a range of ground-penetrating surveying techniques.

Laboratories

State-of-the-art laboratories are located at Cambridge (genetics/ice core/ biological and geological analysis) and at our research stations. The Bonner laboratory at Rothera Research Station provides a suite of advanced facilities for studying the impact of climate change on marine and terrestrial environments.



▲ The Bonner Laboratory at Rothera Research Station has a fully-equipped dive centre



▲ Laboratories at the Applied Fisheries Research Station at King Edward Point, South Georgia, run by BAS on behalf of the Government of South Georgia and the South Sandwich Islands

UK and international collaboration

Partnership working with leading polar scientists and other national polar programmes combine scientific knowledge, technology and logistics capability to deliver new discoveries that advance understanding of our changing world. This is exemplified by participation in multi-partner projects such as the Antarctic Gamburtsev Province (AGAP) survey to discover the origins of a hidden mountain range; the exploration of subglacial Lake Ellsworth; and ice core drilling campaigns in Greenland (NEEM).



▲ International field camp on the East Antarctic plateau, part of the AGAP project



▲ RRS *James Clark Ross* moored at Ny Ålesund, Svalbard, in the high-Arctic. The NERC Arctic research station in Ny Ålesund is managed by British Antarctic Survey



▲ A BAS Twin Otter aircraft fitted with a meteorological probe for air sampling

RRS *James Clark Ross* on a science cruise to study sea ice in the Weddell Sea, Antarctica



If you would like to work with British Antarctic Survey to investigate the grand environmental challenges that our societies face please email:

partnerships@bas.ac.uk



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