

National Representatives in the LifeSciences Group

**Norway: Bjørn A. Krafft (Institute of Marine Research)
Andrew Lowther (Norwegian Polar Institute)**

Life Sciences Activities within SCAR coordinate research focused on:

1. Understanding the impact of past, current and predicted environmental change on biodiversity and the consequences for adaptation and function.
2. Determining the effects of cold, darkness, isolation and pathogens on the health and welfare of scientists and support staff in the Antarctic.
3. Through multidisciplinary collaborations, understanding the complexities of the Antarctic environment and predicting the consequences of change.

Life Sciences Members

Officers of the Life Sciences Group
Chief Officer

Dr Yan Ropert-Coudert - CNRS, France

Deputy Chief Officer

Dr Marc Shepanek - NASA Headquarters, USA

Secretary

Assoc Prof Ian McDonald - University of Waikato, New Zealand

**National Representatives in the LifeSciences Group:
34 countries represented**

Life Sciences Scientific Research Programmes:

AntECO Project AntEco State of the Antarctic Ecosystem

This Scientific Research Programme aims to increase the scientific knowledge of biodiversity, from genes to ecosystems that, coupled with increased knowledge of species biology, can be used for the conservation and management of Antarctic ecosystems.

AnTERA Project - Ecosystem Resilience and Adaptation

This Scientific Research Programme aims to provide a platform for the exchange of knowledge and for the support of research on biological processes at ecological time scales especially related to environmental change.

Life Sciences Action and Expert Groups:

ANTOS Project Antarctic Near-shore and Terrestrial Observing System

This Expert Group aims to establish a biologically focussed, integrated and coordinated Antarctic-wide observation system, to identify and track environmental variability and change at biologically relevant scales, and to use this information to inform biological, physical, and earth science studies. This group is co-sponsored by SCAR's Life Sciences, Physical Sciences and Geosciences Groups.

BEPSII Project EGBAMM Biogeochemical Exchange Processes at the Sea-Ice Interfaces

This Expert Group aims to support and further develop an international community on sea-ice biogeochemistry, to stimulate the interaction between experimentalists and modellers working on this topic, and to help the community articulate research priorities and identify optimized and cost-effective approaches and research platforms in internationally resource-limited times.

ICED Project Integrating Climate and Ecosystem Dynamics in the Southern Ocean

ICED is an international multidisciplinary programme launched in response to the increasing need to develop integrated circumpolar analyses of Southern Ocean climate and ecosystem dynamics.

Plastic Project seal in net Plastic in Polar Environments Action Group - Plastic-AG

This Action Group aims to examine the presence, origin and biological effects of macro-, micro- and nanoplastics, quantify the scale of the problem, and propose solutions for minimising the environmental risk and impacts on Polar ecosystems.

ImPACT monitoring Input Pathways of persistent organic pollutants to AntarCTica

This Action Group aims to facilitate coordinated investigation of chemical input to the Antarctic region, monitoring the routes through which toxic, environmental contaminants reach the continent.

ISSA Project Integrated Science for the Sub-Antarctic

This Action Group aims to provide a comprehensive overview of past and current sub-Antarctic science, to identify pressing science questions for current and future work based on national priorities, strengths, and the 1st SCAR Horizon Scan questions, identify key lessons for science, conservation, and policy across the region, and develop a network of scientists across the region, including support for early-career researchers.

JEGHBM Project Joint Expert Group on Human Biology and Medicine

Coordinate knowledge and international experience of physicians, psychologists, human physiologists and biologists who are actively engaged in medical support of Antarctic activity, as well as biomedical research in the Antarctic. This effort includes active linkages and integration to work in human biology and medicine in the Arctic, Space missions, and other extreme, remote and austere environments. This group is jointly sponsored by SCAR and the Council of Managers of National Antarctic Programs (COMNAP).

RemSens Project RemSens Remote Sensing of Birds and Animals

This Action Group aims to develop a satellite-based, Antarctic-wide, remote sensing approach to monitor bird and animal populations. This group is co-sponsored by SCAR's Life Sciences and Physical Sciences Groups.

EGBAMM Project EGBAMM Expert Group on Birds and Marine Mammals

This Expert Group is tasked with providing expert knowledge and research leadership in all matters related to birds and mammals in the Antarctic, in order to support research that will quantify the role of birds and marine mammals in the Antarctic marine and terrestrial ecosystems.

SKAG Krill closeup SCAR Krill Action Group

This Action Group aims to provide a forum to guide research directions, promote collaboration, improve understanding of krill biology and ecology, and provide a forum for information exchange.

SO CPR Project SO CPR Southern Ocean Continuous Plankton Recorder Database

This Expert Group was established to assist the development and expansion of the CPR research in the Southern Ocean and Antarctic waters, the group now focuses on the Quality Assurance and Quality Control (QA/QC) of the data and maintaining the highest methodological standards in CPR sampling and taxonomic methodology across the SO-CPR Survey laboratories.

ABI Project Acid penguin seaiice Expert Group on Antarctic Biodiversity Informatics

This Expert Group aims to foster the application and development of biodiversity informatics (computationally-driven biodiversity science and information processing) in the SCAR community. It does this by coordinating and participating in a range of projects across the SCAR biodiversity science portfolio.

Andy and I – nominated for the workinggroup in 2019

The first meeting suppose to be arranged in August 2020

Corona, Corona...

> Life Sciences has frozen the statuses of all groups until 2022! All groups add two years to the ending date.