

**SORP, AntClimNow, SOCCOM, BEPSII**

**SORP:** advice CLIVAR Clic and SCAR on progress and achievements. It is focused on understanding climate variability and change in the Southern Ocean. SOFIA proposes a standardizing freshwater forcing protocol for models. Also working toward improving communications.

**AntClimNow:** near-term variability and prediction of the Antarctica Climate System. Constructed around 5 programs, and the one most relevant to SOOS is 'understanding pre-sea-ice climate trends' and 'predictability of the climate system.'

**SOCCOM:** is built on a large BGC Argo profiling float array. SOCCOM data spans the southern ocean, including the sea ice zone and in the winter months. Currently on their second extension, and third proposal in review. Although less floats in SOCCOM part 3, this is partly augmented by GO-BGC.

**BEPSII:** community of sea ice biogeochemist. Aims to quantify the role of sea ice in polar biogeochemical processes. Task groups are focussed in methodologies, technology and data, modelling and obs process studies, etc. BEPSII is looking to further the use of under-ice platforms to measure sea ice properties from below. And capability development, keep an eye out for BEPSII sea ice school in 2026.

**ICED (+MEASO), Ant-ICON AniBOS**

**ICED:** support decision making in the Antarctic treaty. Vision is to unite stakeholders, to understand link between ecosystem and climate. They address their key challenges with targeted research activities. MEASO is a core activity of ICED, trying to understand if observed changes are due to natural variability or anthropogenic climate change. They have a balance between long-term data and statistical power, collaboration is key. Need for whole-ecosystem models.

**Ant-ICON:** aims to provide integrated science to inform environmental management decision. 4 themes, including a synthesis theme. Works to highlight publication, community workshops, travel funding, science policy fellowships, better communication. Keep an eye out for announcements related to SCAR 2024

**AniBOS:** To understand and describe changing ocean through the eyes of marine mammals. 470 deployments giving over 650k CTD profiles spanning 2004 to 2023.

**NECKLACE, INSTANT, ASPeCT**

**NECKLACE:** collect measurements of ice shelf melt rates and make them more easily available. Melting on the under side of ice shelf accounts for half of melt. Need for satellite validation although field data is expensive to collect. New instrument by BAS is very useful in pushing this forward. Received data from 26 sites covering 11 ice shelves and 10 nations.

**INSTANT (2021-2029):**

Collaborative research program looking at the interaction between atmosphere, solid earth and ocean. Aim to reduce uncertainties and improve our knowledge. Specific focus on low confidence, high impact processes. Two observational themes to improve processes understanding.

**ASPECT:** aim to improve understanding of sea ice zone. Areas of engagement, promote baseline obs, identifying emerging issues, support and implement new methods, developing essential climate and ocean variables. Aspect and SOOS collaborate closely on DueSOUTH project.

**IAATO, Polar Citizen Science Collective**

**IAATO:** represent the majority of tourist operators in Antarctica, but they also support research. IAATO does not promote tourism, but advocates for safe, responsible private sector travel. To connect further with scientists, IAATO have got involved with Due South including historical information.

**Polar Citizen Science Collective:** a UK-based charity, with the overall goal to protect the polar regions. They do this with citizen science, as being the middlemen between the scientist who want to collect a lot of data (i.e. lots of basic data, not complex-acquisition), and the tourism operators.