

ANTARCTICA AND THE GLOBAL CLIMATE SYSTEM

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Antarctica and the Global Climate System (AGCS) is one of the five Scientific Research Programmes of SCAR, which will be the flagship scientific activities of the organisation for the next 5-10 years.

AGCS is concerned with the nature of the atmospheric and oceanic linkages between the climate of the Antarctic and the rest of the Earth system, and the mechanisms involved therein. It will make use of data extracted from ice cores, satellite observations, the output of global and regional coupled atmosphere-ocean climate models and *in-situ* meteorological, atmospheric and oceanic data.

The research will be organised into four major, closely linked themes dealing with (1) Decadal time scale variability in the Antarctic climate system, (2) Global and regional climate signals in ice cores, (3) Natural and anthropogenic forcing on the Antarctic climate system and (4) The export of Antarctic climate signals.

This talk will provide information on the scientific questions being addressed within the programme and some early results.