

Scientific Committee on Antarctic Research

Antarctic Climate 2100 Scientific Research Programme

Workshop on “Quantification of Antarctic Climate Variability”

Castine, Maine, USA. 22-25 September 2013

The SCAR AntClim21 SRP will be holding its first scientific workshop in Castine, Maine over 22-25 September 2013. The goal will be to quantify and understand natural and anthropogenically-forced climate variability and change over the last few hundred years by utilising observational data, proxy records, and climate models. It will investigate rates of change, types of trends (linear, thresholds, accelerating), the onset of trends, and identification of contributing or alleviating feedback mechanisms. We will focus on key aspects of the Antarctic environment (e.g. temperature, circulation patterns and strength, mass balance, snow accumulation, sea ice extent, ocean circulation, sea surface temperature, ocean salinity).

An important outcome of the workshop will be the preparation of a report synthesizing our current state of knowledge on past variability and trends in temperature, mass/balance and sea-level, SAM, ozone and other atmospheric chemistry and snow accumulation. The synthesis will incorporate the analysis of instrumental data as well as appropriate paleoclimate data (high resolution, well dated). The report will be prepared in collaboration with ISMASS, 2,000 year array (IPICS and PAGES), ITASE and SOOS.

Attendees will consist of invited scientists working with climate models, paleoclimate data, instrumental measurements and satellite data.

The local arrangements are being made Prof. Paul Mayewski (paul.mayewski@maine.edu).