

**Dr Andrew J. Constable**

Leader, Southern Ocean Ecosystem Ecology and Change

Australian Antarctic Division; Antarctic Climate and Ecosystems  
Cooperative Research Centre, Australia

Co-chair (Biology) Southern Ocean Observing System



Dr. Andrew Constable is a quantitative marine ecologist using science to assist in ecosystem-based management of fisheries, conservation of biodiversity (incl. marine protected areas) and human implications of long-term dynamics and change in marine ecosystems. Andrew was a lecturer in quantitative marine ecology from 1991-1997 before joining the Australian Antarctic Division and has been a program leader on Southern Ocean ecosystem change at ACE CRC since 2005. He was active in the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) (1986-2016), being the Australian representative to its Scientific Committee for 19 years; was a lead author in AR5 on Antarctic ecosystems in Working Group II of the Intergovernmental Panel on Climate Change; and is currently the Co-Chair (Biology) of the Southern Ocean Observing System. He was awarded a Pew Fellowship in Marine Conservation in 2008. Andrew's research now focuses on the design and implementation of field observing programs to measure dynamics and change in marine ecosystems. He is also researching methods to assess the current status and future trends for these systems, which can then be used by managers, policy-makers and the public at large. Much of his work aims at facilitating international collaboration on these questions as no nation can do these tasks alone. This includes further developing the work of the Southern Ocean Observing System, CCAMLR, SCAR and the IMBeR program Integrating Climate and Ecosystem Dynamics. The Southern Ocean Knowledge and Information ([www.SOKI.aq](http://www.SOKI.aq)) wiki is being developed to help achieve this collaboration.

***Aims and Context of MEASO: A Framework for a Marine Ecosystem Assessment for the Southern Ocean***

MEASO aims to facilitate contributions from the Antarctic and Southern Ocean marine science community to the 6th Assessment Review (AR6) of the Intergovernmental Panel on Climate Change (IPCC), the IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC), and recent initiatives to assess status and trends in global ocean ecosystems. It will also make a significant contribution to the development of Theme 6 Biology of the Southern Ocean Observing System (SOOS) and to updating the SCAR Report on Antarctic Climate Change and the Environment (ACCE). These aims will be progressed in four themes: (1) Assessments, (2) Responses, (3) Tools, and (4) Observing. The Policy Forum will bring together scientists, fishers, conservationists, policy makers and managers to advise on what science is needed on ecosystem change and how it should be delivered, in order to be most useful to stakeholders and policy-makers. The forum will also consider how the best available science on ecosystem change can be used now in policy and management. In this talk, I will present, for consideration by the conference, a draft framework for the ecosystem assessment and a proposed timetable of work for the coming year. I will also present proposed approach for reporting the outcomes of the Conference and Policy Forum to the Antarctic Treaty's Committee on Environment Protection, the Scientific Committee for the Conservation of Antarctic Marine Living Resources, the International Whaling Commission's Scientific Committee and other organisations interested in the management and conservation of Southern Ocean ecosystems.