

SoE Author biographies

Chapter	Author	Organisation
Lead	Dr Tom Hatton	Environmental Consulting
Antarctic environment	Dr Andrew Klekociuk	Australian Antarctic Division
Atmosphere	Dr Melita Keywood	CSIRO
	Dr Kathryn Emmerson	CSIRO
Biodiversity	Dr Ian Cresswell	CSIRO
Land	Dr Dan Metcalfe	CSIRO
Marine	Dr David C. Smith	CSIRO
	Dr Nic Bax	CSIRO
Inland waters	Dr Robert Argent	BoM
Built environment	Mr Ian Ewing	ABS
	Ms Sarah Coleman	ABS
Coasts	Prof Emma Johnston	University of NSW
	Dr Graeme Clark	University of NSW
Heritage	Prof Richard Mackay	La Trobe University

*Antarctic environment theme***Dr Andrew Klekociuk (Australian Antarctic Division)**

Senior Research Scientist (atmospheric composition) Australian Antarctic Division. Leads collaborative project between the Antarctic Division and the University of Adelaide at Davis station in Antarctica, for the study of atmospheric processes and climate. He is Co-Chair of SCAR (Scientific Committee on Antarctic Research) Action Group PACT (Polar Atmospheric Chemistry at the Tropopause); Co-Convener of Session in International Polar Year, Oslo Science Conference.

*Atmosphere theme***Dr Melita Keywood (CSIRO)**

Dr Melita Keywood is Principal Research Scientist at the Centre for Australian Weather and Climate Research - a partnership between BOM and CSIRO. She is Stream Leader Aerosol Air Quality, Climate Team Leader Reactive Gases and

Aerosols and has investigated aerosol composition and microphysics since 1996. She leads a pilot program monitoring atmospheric pollution and is an author on over 34 refereed journal publications and 30 reports.

Dr Kathryn Emmerson (CSIRO)

Dr Emmerson is a Senior Research Scientist involved in the development of efficient modelling tools for the prediction and study of atmospheric composition. Her research interests include how emissions of gases and particles have the ability to affect local and regional air quality. Dr Emmerson is an author of over 20 reports and peer-reviewed journal articles.

Biodiversity theme

Dr Ian Cresswell (CSIRO)

Dr Cresswell is currently Research Director, Biodiversity, Ecosystem Knowledge and Services Program at CSIRO, with responsibility for leading the development of biodiversity and landscape management science and the management of major multi-institutional collaborations such as the Atlas of Living Australia. Dr Cresswell has extensive experience working in environment and sustainable development both nationally and internationally in several different areas, including as a former SES and executive level officer in the Department and working within the United Nations Secretariat to the Convention on Biological Diversity.

Land theme

Dr Dan Metcalfe (CSIRO)

Dr Metcalfe is currently Research Program Leader for the Ecology Program at CSIRO Ecosystem Sciences where he leads the Marine and Tropical Sciences Research Facility Threatened Species, Communities and Ecosystems project which focuses on threatened species and threatening processes in the Wet Tropics bioregion, and continues to study the past, current and predicted distribution of species and communities in Australian rainforests. His research interests include managing research in ecology and management of threatened species and communities, habitats and landscapes; prioritisation, management and monitoring of invasive species; biological control of plants and insects in natural and agricultural environments; macroecology and conservation planning and natural resource management including management of indigenous lands.

Marine environment theme

Dr David C. Smith (CSIRO)

Dr Smith is currently Marine Resources and Industries Research Director for the Wealth from Oceans Flagship at CSIRO where he leads research to support the balanced use of marine resources, including sustainable marine industries (fisheries, offshore oil and gas) and biodiversity conservation. He previously worked on assessment of State and Commonwealth Government fisheries, the

development of formal harvest strategies and tools for ecosystem-based fisheries management (EBFM), and the evaluation of indicators for spatial management.

Dr Nic Bax (CSIRO)

Dr Bax is currently a Senior Principal Research Scientist with CSIRO's Oceans and Atmosphere Flagship. He is experienced in the development, supervision, and presentation of marine research projects in Australia, the United States and Europe, and providing modelling expertise to support management decision making. Has expertise in marine biodiversity and conservation, integrated management of invasive marine species and numerical and ecosystem modelling.

Inland waters theme

Dr Robert Argent (CSIRO)

Dr Argent is the BoM's Director of the Water Information Research and Development Alliance, an 8 year research partnership with CSIRO to improve the management of Australia's water resources through the delivery of value-added water information products. His interests are in developing and translating into operation the systems, services, models and products needed to deliver the Bureau's mission of providing environmental intelligence to the Australian public. He was previously a hydrological and catchment modelling researcher at the University of Melbourne.

Built environment theme

Mr Ian Ewing (ABS)

Mr Ewing is the Deputy Australian Statistician, Economic and Environment Statistics Group at the ABS with expertise in business, economic and agricultural statistics, played a major role in shaping statistical strategies and work programmes. Prior to his role in the ABS he was Deputy Government Statistician at Statistics New Zealand responsible for macro-economic, regional and environment Statistics.

Ms Sarah Coleman (ABS)

Ms Coleman is an Assistant Director within the Centre of Environment Statistics at the ABS. Sarah has worked in the field of environmental statistics since the early 1990s, and been involved with the early development of environmental-economic accounting at the ABS. She has worked on the development and production of a number of environmental accounts for Australia, including EPE Accounts, Energy and Greenhouse Gas Emissions Accounts, Fish Accounts and Waste Accounts.

Coasts theme

Prof Emma Johnston (University of NSW)

Prof Emma Johnston (PhD) is a world-leading marine ecologist and ecotoxicologist. She is a Professor at the University of New South Wales where she heads the Applied Marine and Estuarine Ecology Laboratory and is also the inaugural Director of the Sydney Harbour Research Program at the Sydney Institute of Marine Science. She has been a research fellow of the Australian Research Council. She has published more than 88 peer-reviewed works, more than 40 technical reports, and is active in national marine science strategy and policy debates.

Dr Graeme Clark (University of NSW)

Dr Graeme Clark is currently a Senior Research Associate at the University of New South Wales. He has over 10 years experience in coastal ecology and has published numerous studies on biological invasion and pollution impacts to coastal ecosystems. Dr Clark has published 18 peer-reviewed scientific works, including journal articles and a book chapter.

Heritage theme

Prof Richard Mackay (La Trobe University)

Prof Mackay is currently a Partner with GML Heritage and an Adjunct Professor with La Trobe University. He has more than 30 years' experience in cultural resource management, including as the immediate past chair of the Australian World Heritage Advisory Committee and the current chair of the Greater Blue Mountains World Heritage Area Advisory Committee. He was a member of the SoE 2011 Committee and has participated in more than 500 heritage management and archaeology projects throughout Australian and southeast Asia. He was the inaugural winner of the Sharon Sullivan Award for his contribution to Australia's national heritage.

Please note that Dr Hatton has finished his term as lead author for SoE 2016. A procurement process to replace him is currently underway.

Lead Author: Dr Tom Hatton

Dr Hatton is an environmental consultant with a prestigious and varied history in environmental science. His research and management experience includes forest productivity, ecology, bushfire science, eco-hydrology, water allocation, salinity and catchment hydrology. Dr Hatton has held several roles at the CSIRO, most recently director of the CSIRO Wealth from Oceans Flagship (2009–2012), Australia's largest marine science portfolio. On November 5, 2015, Dr Tom Hatton was appointed as Chairman of the Western Australian Environmental Protection Authority for five years. Dr Hatton was also chair of the SoE committee in 2011.

