

ANTARCTIC ECOSYSTEMS

An Extreme Environment in a Changing World

Edited by
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Antarctic Ecosystems An Extreme Environment In A Changing World

**Alex D. Rogers, Nadine M.
Johnston, Eugene J. Murphy, Andrew
Clarke**

Antarctic Ecosystems An Extreme Environment In A Changing World:

Antarctic Ecosystems Alex D. Rogers, Nadine M. Johnston, Eugene J. Murphy, Andrew Clarke, 2012-02-28 Since its discovery Antarctica has held a deep fascination for biologists Extreme environmental conditions seasonality and isolation have lead to some of the most striking examples of natural selection and adaptation on Earth Paradoxically some of these adaptations may pose constraints on the ability of the Antarctic biota to respond to climate change Parts of Antarctica are showing some of the largest changes in temperature and other environmental conditions in the world In this volume published in association with the Royal Society leading polar scientists present a synthesis of the latest research on the biological systems in Antarctica covering organisms from microbes to vertebrate higher predators This book comes at a time when new technologies and approaches allow the implications of climate change and other direct human impacts on Antarctica to be viewed at a range of scales across entire regions whole ecosystems and down to the level of species and variation within their genomes Chapters address both Antarctic terrestrial and marine ecosystems and the scientific and management challenges of the future are explored

The Antarctic Silverfish: a Keystone Species in a Changing Ecosystem Marino Vacchi, Eva Pisano, Laura Ghigliotti, 2017-05-03 This book encompasses the body of available scientific information on the notothenioid fish *Pleuragramma antarctica* commonly known as Antarctic silverfish This plankton feeder of the intermediate trophic level is the most abundant fish in the coastal regions of high Antarctica and plays a pivotal ecological role as the main prey of top predators like seals penguins whales and Antarctic toothfish Broad circum polar distribution a key role in the Antarctic shelf pelagic ecosystem and adaptations makes understanding the species likely response to environmental change relevant to foresee the potential responses at the local ecosystem level Additionally a detailed understanding of the abundance and trophic interactions of such a dominant keystone species is a vital element of informing the development of marine spatial planning and marine protected areas in the Antarctic continental shelf region Experts in the field provide here unique insights into the evolutionary adaptation eco physiology trophic ecology reproductive and population ecology of the Antarctic silverfish and provide new clues about its vulnerability in facing the challenges of the ongoing environmental changes

Adaptation and Evolution in Marine Environments, Volume 2 Cinzia Verde, Guido di Prisco, 2012-10-29 The second volume of *Adaptation and Evolution in Marine Environments* The Impacts of Global Change on Biodiversity from the series *From Pole to Pole* integrates the marine biology contribution of the first tome to the IPY 2007 2009 presenting overviews of organisms from bacteria and ciliates to higher vertebrates thriving on polar continental shelves slopes and deep sea The speed and extent of warming in the Arctic and in regions of Antarctica the Peninsula at the present are greater than elsewhere Changes impact several parameters in particular the extent of sea ice organisms ecosystems and communities that became finely adapted to increasing cold in the course of millions of years are now becoming vulnerable and biodiversity is threatened Investigating evolutionary adaptations helps to foresee the impact of changes in temperate

areas highlighting the invaluable contribution of polar marine research to present and future outcomes of the IPY in the Earth system scenario *Insights in Extreme Microbiology: 2021* Andreas Teske, Virginia P. Edgcomb, 2023-02-03

Antarctic Seaweeds Iván Gómez, Pirjo Huovinen, 2020-04-29 Seaweeds macroalgae represent the most striking living components in the Antarctic s near shore ecosystems especially across the West Antarctic Peninsula and adjacent islands Due to their abundance their central roles as primary producers and foundation organisms and as sources of diverse metabolically active products seaweed assemblages are fundamental to biogeochemical cycles in Antarctic coastal systems In recent years the imminence of climate change and the direct impacts of human beings which are affecting vast regions of the Antarctic have highlighted the importance of seaweed processes in connection with biodiversity adaptation and interactions in the benthic network Various research groups have been actively involved in the investigation of these topics Many of these research efforts have a long tradition while some newcomers have also recently contributed important new approaches to the study of these organisms benefiting polar science as a whole This book provides an overview of recent advances and insights gleaned over the past several years Focusing on a timely topic and extremely valuable resource it assesses the challenges and outlines future directions in the study of Antarctic seaweeds *Antarctic Krill and Interactions in the East Antarctic Ecosystem* So Kawaguchi, Sophie Bestley, Martin Cox, Kerrie M. Swadling, Elanor Bell, 2025-08-19 Antarctic krill *Euphausia superba* is the target of the largest commercial fishery in the Southern Ocean Its abundance varies regionally and exhibits great interannual variability This natural variability combined with climate change effects could have substantial consequent impacts on krill predators and the magnitude of ecologically sustainable fishery catch limits Recent increase in the krill catch is due to technological developments in both harvesting and catch processing methods as well as interest in new products derived from krill e g dietary supplements and pet food The krill fishery is managed by the Commission for the Conservation of Antarctic Marine Living Resources CCAMLR The krill fishery first commenced in 1970 s off East Antarctica but the main fishing ground shifted to the South Atlantic sector from the 1990 s Interest to fish off East Antarctica has been expressed by CCAMLR Member nations in recent years and the krill fishery recommenced in Indian Ocean sector of East Antarctic sector in the 2016 17 fishing season Given the increase in recent commercial interest the trigger level total allowed catch in one of the management areas CCAMLR Subarea 48 1 has been reached seven times in the Southwest Atlantic the East Antarctic fishery is likely to expand in coming years CCAMLR employs an ecosystem based management approach This requires a wide range of data and information from across regional ecosystem components In the southwest Atlantic sector krill management is based on large scale krill biomass surveys undertaken in 2000 and 2019 together with various national Antarctic programs conducting annual regional scale monitoring this provides assessments of year to year variation of krill ecosystem parameters for CCAMLR to ensure harvesting is carried out in a sustainable manner Contrary to the relatively data rich Southwest Atlantic sector current precautionary catch limits for the krill fishery off East Antarctica are solely based on

information collected through the two large scale multidisciplinary surveys conducted by Australia in Divisions 58 4 1 in 1996 and 58 4 2 in 2006 This Research Topic gathers up to date scientific analysis on the East Antarctic ecosystem arising from recent marine science voyages such as ENRICH Euphausiids and Nutrient Recycling In Cetacean Hotspots in 2019 and TEMPO Trends in Euphausiids off Mawson Predators and Oceanography in 2021 Our topic provides an opportunity to explore ecosystem wide scientific studies including non exclusively krill biomass ecosystem structure and interactions between krill krill predators oceanography and primary production to inform sustainable krill fishery management in the region

Antarctic Biology: Scale Matters Peter Convey,Katrin Linse,Huw James Griffiths,Bruno Danis,Anton Pieter Van de Putte,Alison Elizabeth Murray,2020-06-04 **Antarctic Futures** Tina Tin,Daniela Liggett,Patrick T Maher,Machiel Lamers,2013-10-04 At the beginning of the 21st century Antarctica is poised at the edge of a warmer and busier world Leading Antarctic researchers examine the needs and challenges of Antarctic environmental management today and tomorrow Through i investigating the impacts of human activities on specific ecosystems and species ii examining existing environmental management and monitoring practices in place in various regions and iii interrogating stakeholders they address the following questions What future will Business As Usual bring to the Antarctic environment Will a Business As Usual future be compatible with the objectives set out under the Antarctic Treaty especially its Protocol on Environmental Protection What actions are necessary to bring about alternative futures for the next 50 years This volume is an outcome of the International Polar Year 2007 2009 Oslo Science Conference 8 12 June 2010 **Antarctic Terrestrial Microbiology** Don A. Cowan,2014-07-08 This book brings together many of the world s leading experts in the fields of Antarctic terrestrial soil ecology providing a comprehensive and completely up to date analysis of the status of Antarctic soil microbiology Antarctic terrestrial soils represent one of the most extreme environments on Earth Once thought to be largely sterile it is now known that these diverse and often specialized extreme habitats harbor a very wide range of different microorganisms Antarctic soil communities are relatively simple but not unsophisticated Recent phylogenetic and microscopic studies have demonstrated that these communities have well established trophic structuring and play a significant role in nutrient cycling in these cold and often dry desert ecosystems They are surprisingly responsive to change and potentially sensitive to climatic perturbation Antarctic terrestrial soils also harbor specialized refuge habitats where microbial communities develop under and within translucent rocks These cryptic habitats offer unique models for understanding the physical and biological drivers of community development function and evolution **Climate Change 2014 - Impacts, Adaptation and Vulnerability: Global and Sectoral Aspects** Christopher B. Field,Vicente R. Barros,2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy

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