

# ECOSYSTEM DYNAMICS IN A POLAR DESERT

The McMurdo Dry Valleys, Antarctica



John C. Prisco, Editor

# Ecosystem Dynamics In A Polar Desert The Mcmurdo Dry Valleys Antarct

**Gunter Faure, Teresa M. Mensing**



## **Ecosystem Dynamics In A Polar Desert The Mcmurdo Dry Valleys Antarct:**

*Ecosystem Dynamics in a Polar Desert*, 1998 Presents information from the primary abiotic forces defining the system and from the present hydrology biogeochemistry and physics of major sites of organic carbon production of the McMurdo Dry Valleys Additionally research on the physical chemical and biological properties of the dry valley soils is included The role of environmental management in long term ecological studies is also addressed The accompanying CDROM provides details and scale to visualize the McMurdo Dry Valleys from an ecosystem perspective **Review of Ecosystem dynamics in a polar desert** D.D. WYNN-WILLIAMS,1999 **Ecosystem Dynamics in a Polar Desert** John Charles Priscu,1998 Ecosystem Dynamics in a Polar Desert, 1998 *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 **Life in Antarctic Deserts and other Cold Dry Environments** Peter T. Doran,W. Berry Lyons,Diane M. McKnight,2010-04-29 The McMurdo Dry Valleys form the largest relatively ice free area on the Antarctic continent The perennially ice covered lakes ephemeral streams and extensive areas of exposed soil are subject to low temperatures limited precipitation and salt accumulation The dry valleys thus represent a region where life approaches its environmental limits This unique ecosystem has been studied for several decades as an analog to environments on other planets particularly Mars For the first time the detailed terrestrial research of the dry valleys is brought together here presented from an astrobiological perspective Chapters include a discussion on the history of research in the valleys a geological background of the valleys setting them up as analogs for Mars followed by chapters on the various sub environments in the valleys such as lakes glaciers and soils Includes concluding chapters on biodiversity and other analog environments on Earth The Transantarctic Mountains Gunter Faure,Teresa M. Mensing,2010-09-21 This book presents a summary of the geology of the Transantarctic Mountains for Earth scientists who may want to work there or who need an overview of the geologic history of this region In addition the properties of the East Antarctic ice sheet and of the meteorites that accumulate on its surface are treated in separate chapters The presentation ends with the Cenozoic

glaciation of the Transantarctic Mountains including the limnology and geochemical evolution of the saline lakes in the ice free valleys The subject matter in this book is presented in chronological order starting about 750 million years ago and continuing to the present time The chapters can be read selectively because the introduction to each chapter identifies the context that gives relevance to the subject matter to be discussed The text is richly illustrated with 330 original line drawings as well as with 182 color maps and photographs The book contains indexes of both subject matter and of authors names that allow it to be used as an encyclopedia of the Transantarctic Mountains and of the East Antarctic ice sheet Most of the chapters are supplemented by Appendices containing data tables additional explanations of certain phenomena e g the formation and seasonal destruction of stratospheric ozone and illustrative calculations e g  $^{38}\text{Cl}$  dates of meteorites The authors have spent a combined total of fourteen field seasons between 1964 and 1995 doing geological research in the Transantarctic Mountains with logistical support by the US Antarctic Program Although Antarctica is remote and inaccessible tens of thousands of scientists of many nationalities and their assistants have worked there and even larger numbers of investigators will work there in the future

Life in Ancient Ice John D. Castello, Scott O. Rogers, 2016-10-11 Life in Ancient Ice presents an unparalleled overview of current research into microbial life in ancient glacial ice and permafrost Particulates of fungi bacteria pollen grains protists and viruses are carried by wind around the globe When they fall to Earth in polar regions they may be trapped in ice for hundreds of millennia Some of the many implications sound like science fiction for example might melting glaciers release ancient pathogens that yield modern day pandemics But rigorous coordinated research is nascent This book points the way forward Based on a National Science Foundation sponsored symposium organized by the editors in 2001 it comprises twenty chapters by internationally renowned scientists including Russian experts whose decades of work has been rarely available in English The book begins by setting forth many protocols that have been used to study microorganisms trapped in ice discussing their potential sources and presenting evidence for microbial metabolic activity at temperatures below freezing This is followed by nine chapters describing the fungi bacteria and viruses that have been found in permafrost and glacial ice Later chapters include a look at Antarctica's subglacial Lake Vostok at a robot that can be lowered into ice to detect microbes and at the use of icy environments on Earth as model systems for studying similar environments on planets and moons The editors conclude by reviewing key discoveries and outlining important areas for future research Originally published in 2005 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

**Antarctic Lakes** Johanna Laybourn-Parry, Jemma Wadham, 2014-08-14 The Antarctic continent carries the greatest diversity of lake

environments on the planet freshwater and saline lakes tidal freshwater epishelf lakes lakes on ice shelves and glacier surfaces and over three hundred subglacial lakes extraordinary ecosystems that have been separated from the atmosphere for up to millions of years This book provides a unique and cutting edge synthesis of Antarctic limnology drawing together current knowledge on geomorphology morphometry chemistry community structure and function It emphasises throughout the value of these near pristine ecosystems as barometers of climate change showing how responsive and vulnerable they are to the indirect impacts of anthropogenic activity Antarctic Lakes begins with an introduction to their physical chemical and biological characteristics providing a basis for understanding the subsequent detailed chapters on different lake types and ends with a chapter considering the application of new technologies to polar limnology as well as identifying future research directions This accessible text is suitable for both senior undergraduate and graduate students taking courses in Antarctic and polar limnology and will also be of broad interest to researchers working in the areas of polar science microbial ecology and extremophiles climatology glaciology and astrobiology

*Life at Extremes* Elanor Bell, 2012 From arid deserts to icy poles outer space to the depths of the sea this exciting new work studies the remarkable life forms that have made these inhospitable environments their home Covering not only micro organisms but also higher plants and animals such as worms fish and polar plants this book details the ecological biological and biogeochemical challenges these organisms face and unifying themes between environments Equally useful for the expert student and casual scientific reader this book also explores the impact of climate change rapid seasonal changes and pollution on these extraordinary creatures

Antarctic Ecosystems R. Bargagli, 2005-12-11 Choice Outstanding Title January 2006 The image of Antarctica as a symbol of the last great wilderness and pristine environment has changed considerably in the last two decades Environmental problems such as the ozone hole and the break up of ice shelves have shown that Antarctica is inextricably linked to global processes and exposed to the impact of human activities in the rest of the world This volume provides an overview of climate change data its effects on the structure and functioning of Antarctic ecosystems and the occurrence and cycling of persistent contaminants It discusses the unique physico chemical characteristics of the Antarctic environment ecophysiological adaptations of terrestrial and marine organisms the transfer of contaminants in pelagic and neritic food chains and the possible consequences for animals at higher trophic levels The text concludes with possible future scenarios of climate change and atmospheric contamination and the role of Antarctic organisms in the early detection of environmental perturbations

**Novel Isotope Systems and Biogeochemical Cycling During Cryospheric Weathering in Polar Environments** Katharine Rosemary Hendry, Melissa Jean Murphy, Sophie Opfergelt, 2021-04-29

Antarctic Palaeoenvironments and Earth-Surface Processes M.J. Hambrey, P.F. Barker, P.J. Barrett, V. Bowman, B. Davies, J.L. Smellie, M. Tranter, 2013-12-05 The volume highlights developments in our understanding of the palaeogeographical palaeobiological palaeoclimatic and cryospheric evolution of Antarctica It focuses on the sedimentary record from the Devonian to the

Quaternary Period It features tectonic evolution and stratigraphy as well as processes taking place adjacent to beneath and beyond the ice sheet margin including the continental shelf The contributions in this volume include several invited review papers as well as original research papers arising from the International Symposium on Antarctic Earth Sciences in Edinburgh in July 2011 These papers demonstrate a remarkable diversity of Earth science interests in the Antarctic Following international trends there is particular emphasis on the Cenozoic Era reflecting the increasing emphasis on the documentation and understanding of the past record of ice sheet fluctuations Furthermore Antarctic Earth history is providing us with important information about potential future trends as the impact of global warming is increasingly felt on the continent and its ocean

**Water on Mars and Life** Tetsuya Tokano, 2004-09-14 Growing evidence based on observations from orbiters landers and telescopes indicates that Mars may still have numerous hidden water reservoirs Water on Mars and Life surveys recent advances made in research into water on Mars together with its astrobiological implications Addresses not only scientists working in the field but also nonspecialists and students in search of a high level but accessible introduction to this exciting field of research Hydrogeology, Chemical Weathering, and Soil Formation Allen Hunt, Markus Egli, Boris Faybishenko, 2021-04-06 Explores soil as a nexus for water chemicals and biologically coupled nutrient cycling Soil is a narrow but critically important zone on Earth's surface It is the interface for water and carbon recycling from above and part of the cycling of sediment and rock from below Hydrogeology Chemical Weathering and Soil Formation places chemical weathering and soil formation in its geological climatological biological and hydrological perspective Volume highlights include The evolution of soils over 3.25 billion years Basic processes contributing to soil formation How chemical weathering and soil formation relate to water and energy fluxes The role of pedogenesis in geomorphology Relationships between climate soils and biota Soils aeolian deposits and crusts as geologic dating tools Impacts of land use change on soils The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about this book from this Q & A with the Editors

**Algae and Cyanobacteria in Extreme Environments** Joseph Seckbach, 2007-09-18 Algae and Cyanobacteria in Extreme Environments is a unique collection of essays contributed by leading scientists from around the world devoted to algae and some related microbes observed in unexpected harsh habitats which it seems are an oasis or Garden of Eden for these organisms This timely book on Extremophilic algae including its especially impressive micrographs may provide clues about the edges of life on Earth and possibly elsewhere in the universe Defining locations from the anthropomorphic point of view the environments explored ranges from severe and distant to normal places The algae discussed microbial oxygenic phototrophs are classified into various categories according to their habitats They thrive in various temperature ranges at the limits of pH values in salt solutions under UV radiation dryness heavy metals anaerobic niches under various levels of illuminations and under

hydrostatic pressure Authors discuss bio diversely algal territories ecologically the hot springs with the thermophiles or acido thermophiles Antarctica the Arctic and permafrost zones with their cold lovers Psychrophiles soda lakes with the alkaliphiles saltine areas with halophiles In addition to general essays Algal species discussed in detail include diatoms Cyanidium Galdieria Dunaliella and Chroococcidiopsis This volume is a must for students of the field of biodiversity as well as those in phycology ecology and general biological research

**Lake Ecosystem Ecology** Gene E. Likens, 2010-05-20 A derivative of the Encyclopedia of Inland Waters Lake Ecosystem Ecology examines the workings of the lake and reservoir ecosystems of our planet Information and perspectives crucial to the understanding and management of current environmental problems are covered such as eutrophication acid rain and climate change Because the articles are drawn from an encyclopedia the articles are easily accessible to interested members of the public such as conservationists and environmental decision makers Includes an up to date summary of global aquatic ecosystems and issues Covers current environmental problems and management solutions Features full color figures and tables to support the text and aid in understanding

**Astrobiology** Gerda Horneck, Christa Baumstark-Khan, 2012-12-06 How did life originate in the universe How did it all start after the creation of matter and the formation of elements in the stars What are the pathways from the first organic molecules in space to the evolution of complex life forms on Earth and perhaps elsewhere And how will it all end The Universe itself sets the stage for the very interdisciplinary field of astrobiology that attempts to answer such questions the central one being What is the cosmic recipe for life Currently there are only very few known elements in this vast mosaic This book bridges a gap in the literature by bringing together leading specialists from different backgrounds who lecture on their fields with close relevance to astrobiology providing tutorial accounts that lead all the way to the forefront of research The book will thus be useful for students lecturers and researchers alike

*Climate Variability and Ecosystem Response at Long-term Ecological Research Sites* David Greenland, Douglas Gard Goodin, Raymond Calvin Smith, 2003 Presents the work that has been done and the understanding and database that have been developed by work on climate change done at the Long Term Ecological Research LTER sites This book pulls together information from all 20 research sites

**Trends in Antarctic Terrestrial and Limnetic Ecosystems** D.M. Bergstrom, P. Convey, A.H.L. Huiskes, 2007-06-04 The Antarctic provides a suite of scenarios useful for investigating the range of climate change effects on terrestrial and limnetic biota The international SCAR programme RiSCC Regional Sensitivity to Climate Change in Antarctic Terrestrial and Limnetic Ecosystems is investigating these scenarios with the goals of 1 understanding the likely response of Antarctic biota to changing climates and 2 contributing to the development of broadly applicable theory concerning interactions between climate change indigenous and introduced species and ecosystem functioning The programme draws upon both new and existing data The purpose of the book is to provide based on the most up to date knowledge a synthesis of the likely effects of climate change on Antarctic terrestrial and limnetic ecosystems and thereby to contribute to their management and conservation based on the

information



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