

Ecological Studies 50

Z. Reiss · L. Hottinger

The Gulf of Aqaba

Ecological Micropaleontology



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Padhraic Smyth



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Potentials and Limitations of Ecosystem Analysis Ernst-Detlef Schulze, Helmut Zwölfer, 2012-12-06 The identification of inputs and outputs is the first and probably most important step in testing and analyzing complex systems Following accepted natural laws such as the conservation of mass and the principle of electroneutrality the input output analysis of the system be it steady or in connection with perturbations will reveal the status dynamic will identify whether changes are reversible or irreversible and whether changing the input will cause a hysteresis response Moreover measurements of input and output fluxes can indicate the storage capacity of a system its resilience to buffer or amplify variations of the external input and it can identify structural changes Therefore to a certain extent the input output analysis can facilitate predictions about the ecosystem stability The measurement of fluxes and the determination of inputs and outputs of eco systems are in many aspects analogous to measurements done by engineers when testing an electronic apparatus The first step is the measurement of the input output properties of the instrument as a whole or of various circuit boards and the comparison of these with the expected variations of the original design Varying input and output can give valuable information about the stability and the regulatory properties of the device Nevertheless only the circuit as an entity has specific properties which cannot be anticipated if the individual components are investigated regardless of their position Also the instrument as a whole will have different input output properties than its subcircuits

Air Pollution by Photochemical Oxidants Robert Guderian, 2012-12-06 Photochemical oxidants are secondary air pollutants formed under the influence of sunlight by complex photochemical reactions in air which contains nitrogen oxides and reactive hydrocarbons as precursors The most adverse components formed by photochemical reactions in polluted air are ozone O_3 and peroxyacetyl nitrate PAN among many other products such as aldehydes ketones organic and inorganic acids nitrates sulfates etc An analysis and evaluation of the available knowledge has been used to characterize the relationships among emissions ambient air concentrations and effects and to identify the important controlling influences on the formation and effects of photochemical oxidants The biological activity of photochemical oxidants was first clearly manifested during the early 1940 s when vegetation injury was observed in the Los Angeles Basin in the United States Since that time as a consequence of the increasing emissions of photochemical oxidant precursors the photochemical oxidants have become the most important air pollutants in North America In other parts of the world for example South and Central America Asia and Australia photo chemical oxidants threaten vegetation particularly the economic and ecological performance of plant life According to my knowledge the first observations of ozone and PAN injury to vegetation in Europe were made by Dr Ellis F Darley Statewide Air Pollution Research Center University of California Riverside California during a study visit 1963 64 to the Federal Republic of Germany

Soil Salinity under Irrigation I. Shainberg, J. Shalhevet, 2012-12-06 The importance of irrigation in the world s agriculture is rapidly increasing Although it is practised on a large scale mainly in arid and semi arid zones supplementary irrigation is becoming popular in

semi humid regions as well. The record of irrigation speaks for itself in terms of increased crop production. However, the question remains as to how permanent the achievement may be. Judging from history, it seems that irrigation eventually failed in many regions because the knowledge and technology available to society at the time were incapable of coping with the problems created. Undoubtedly, soil salinity is the most prevalent and widespread problem limiting crop productivity in irrigated agriculture. It has therefore attracted the attention of the scientific community since the advent of modern agronomic research. Through the past six to seven decades, a considerable body of information has been accumulated which has promoted the understanding of the principles involved and helped to develop the technology for coping with the problems. Our present knowledge, if judiciously applied, is adequate for coping with many of the salinity problems resulting from mismanagement of irrigation and drainage. But for this knowledge to be used, it has to be generally known and understood and be re-examined from time to time.

Microbial Connections Between the Subsurface Sulfur Cycle and Other Elemental Cycles Alexandra V. Turchyn, Orit Sivan, Shuhei Ono, Tanja Bosak, 2018-11-16

Sulfur has many redox states and is a major metabolite in suboxic and anaerobic environments including but not restricted to marine and marginal marine sediments, the water column, oxygen minimum zones, salt marshes, and oil wells. Microbially mediated redox cycling of sulfur typically comprises dissimilatory sulfate reduction, MSR, sulfide reoxidation, disproportionation, and the oxidation and reduction of sulfur redox intermediates. These processes contribute to the degradation of organic matter, link the cycles of sulfur and carbon, control the production and consumption of methane, and are critical for the long-term budget of O₂ in the atmosphere. Microbial and abiotic processes at redox interfaces also connect the sulfur cycle to the redox cycles of nitrogen, iron, and other elements, producing distinctive geochemical and molecular signatures. Studies that couple microbiology with stable isotope geochemistry have informed interpretations of microbial sulfur cycling in modern and past environments. Laboratory-based studies and models of MSR have sought to understand the physiological and environmental controls of the magnitude of sulfur isotope fractionation. The fractionations of stable sulfur and oxygen isotopes during MSR are also used to track enzymatic activity during MSR and processes that oxidize sulfide in the presence of environmental oxidants. Outstanding questions in the field concern the importance of oxidative processes within the natural environment, the delivery of oxidants and carbon sources to the zones of sulfate reduction, and the ability to detect or reconstruct oxidative processes from the chemical, isotopic, metagenomic, transcriptomic, proteomic, and metabolomics profiles in the environment. Recent studies have emphasized the complex connections between sulfur and methane, iron, nitrogen, and other elements. These links may involve the redox cycling of species that occur at concentrations difficult to detect by standard geochemical techniques or that are cycled at very rapid rates, cryptic cycles. Of particular interest is the use of isotope geochemistry to quantify links among various electron acceptors, including sulfate, ferric iron, and nitrate, during the anaerobic methane oxidation. For example, recent geochemical measurements have hinted that microbial sulfate reduction coupled to organic matter oxidation.

is mechanistically different to when sulfate reduction is coupled to methane oxidation Recent studies have also suggested a possible contribution of a number of previously uncultured microbial groups in sulfur cycling in sulfidic environments inspiring further studies of these organisms and their partnerships in anaerobic environments This Research Topic highlights studies of microbial interactions processes and communities that couple the sulfur cycle to the cycles of other elements in aphotic environments

Coral Health and Disease Eugene Rosenberg, Yossi Loya, 2004-04-27 This book opens with case studies of reefs in the Red Sea Caribbean Japan Indian Ocean and the Great Barrier Reef A section on microbial ecology and physiology describes the symbiotic relations of corals and microbes and the microbial role in nutrition or bleaching resistance of corals Coral diseases are covered in the third part The volume includes 50 color photos of corals and their environments

Intertidal and Littoral Ecosystems Arthur C. Mathieson, P. H. Nienhuis, 1991 Hardbound Intertidal and littoral environments are complex and productive ecosystems which fascinate many of us who love the seashore and living things The importance and beauty of such ecosystems require our best efforts to understand conserve and manage them lest the quality of our lives be diminished Hopefully the present volume will help guide future studies and be of interest to senior students teachers researchers as well as those involved with implementing coastal zone management policy

Scientific and Technical Books and Serials in Print, 1989 World Seas: An Environmental Evaluation Jean-Francois Hamel, 2018-09-03 World Seas An Environmental Evaluation Second Edition Volume Two The Indian Ocean to the Pacific provides a comprehensive review of the environmental condition of the seas from the Indian Ocean to the Pacific Each chapter is written by experts in the field who provide historical overviews in environmental terms current environmental status major problems arising from human use informed comments on major trends problems and successes and recommendations for the future The book is an invaluable worldwide reference source for students and researchers who are concerned with marine environmental science fisheries oceanography and engineering and coastal zone development Covers regional issues that help countries find solutions to environmental decline that may have already developed elsewhere Provides scientific reviews of regional issues thus empowering managers and policymakers to make progress in under resourced countries and regions Includes comprehensive maps and updated statistics in each region covered

Biology of Foraminifera John J. Lee, O. Roger Anderson, 1991 This book is a multidisciplinary perspective on all aspects of the science of living fossil foraminifera They are a potentially rich source of information for cell and molecular biological research in addition to classical biological and geological investigations Key Features The foraminifera are of increasing importance to those involved in biology and earth science in Assessing the history of the earth Monitoring ecosystems Predicting the impact of human activity on the dynamics of our natural environment

The Gulf of Aqaba Zeev Reiss, Lukas Hottinger, 2012-12-06 The reconstruction of ancient marine environments is an important task of the Earth Sciences of great interest to geology pure and applied to oceanography and climatology as well as to such fields as ecology and evolution In

principle such reconstructions are based on the actualistic approach of the present is the key to the past Since the deciphering of past environmental changes either natural or man made has considerable bearing on planning the past may provide a key to the future Paleoenvironmental interpretations in the marine realm are based to a great extent on assemblages of fossils recovered from ancient sediments in outcrops and from land based or submarine drillings Observable lateral sequences of assemblages in contemporaneous strata the known or assumed functional or adaptive significance of preserved skeletal structures as well as their evolution through time and space provide by themselves indications of ancient environmental settings In some cases even present day ecological considerations may be derived from analysis of fossils

Books in Print Supplement ,1994 **Israel Journal of Earth Sciences** ,1985 **Subject Guide to Books in Print** ,1993 **Foraminiferal Genera and Their Classification** Alfred R. Loeblich Jr.,Helen Tappan,2015-05-08 Studies with the foraminiferida have often been hindered by widely scattered inaccessible sources This two volume reference text in one volume plates in the other examines 3 568 of the world's generic taxa representing all geologic ages Covering twice the number of genera as any other available reference it is by far the most complete source on the foraminiferida *American Book Publishing Record* ,1984-12 *Acta geologica polonica* ,1993 **Forthcoming Books** Rose Arny,1985

Mechanisms and Ecology of Suspended-Particle Capture in Marine Systems Jeff Shimeta,Marco Ghisalberti,Nicole Rita Posth,Stuart Humphries,2025-02-07 The dynamics and capture of suspended particles constrain numerous processes in marine ecosystems such as suspension feeding and trophic interactions aggregation and sedimentation larval and propagule dispersal and settlement and the increasing impacts of micro and nanoplastics in the environment The interdisciplinary research in these areas draws heavily on fluid and particle dynamics filtration theory surface chemistry and modelling and experimentation with marine organisms This Research Topic focuses on recent advances in interdisciplinary approaches to modelling predicting and measuring particle capture and extensions of these concepts to emerging issues such as the transport and fate of micro and nanoplastics in the marine environment An insightful and inspiring review that will direct future research is also sought **Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen. Series B, Palaeontology, geology, physics, and chemistry** ,1984 Naturwissenschaftliche Rundschau ,1985

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