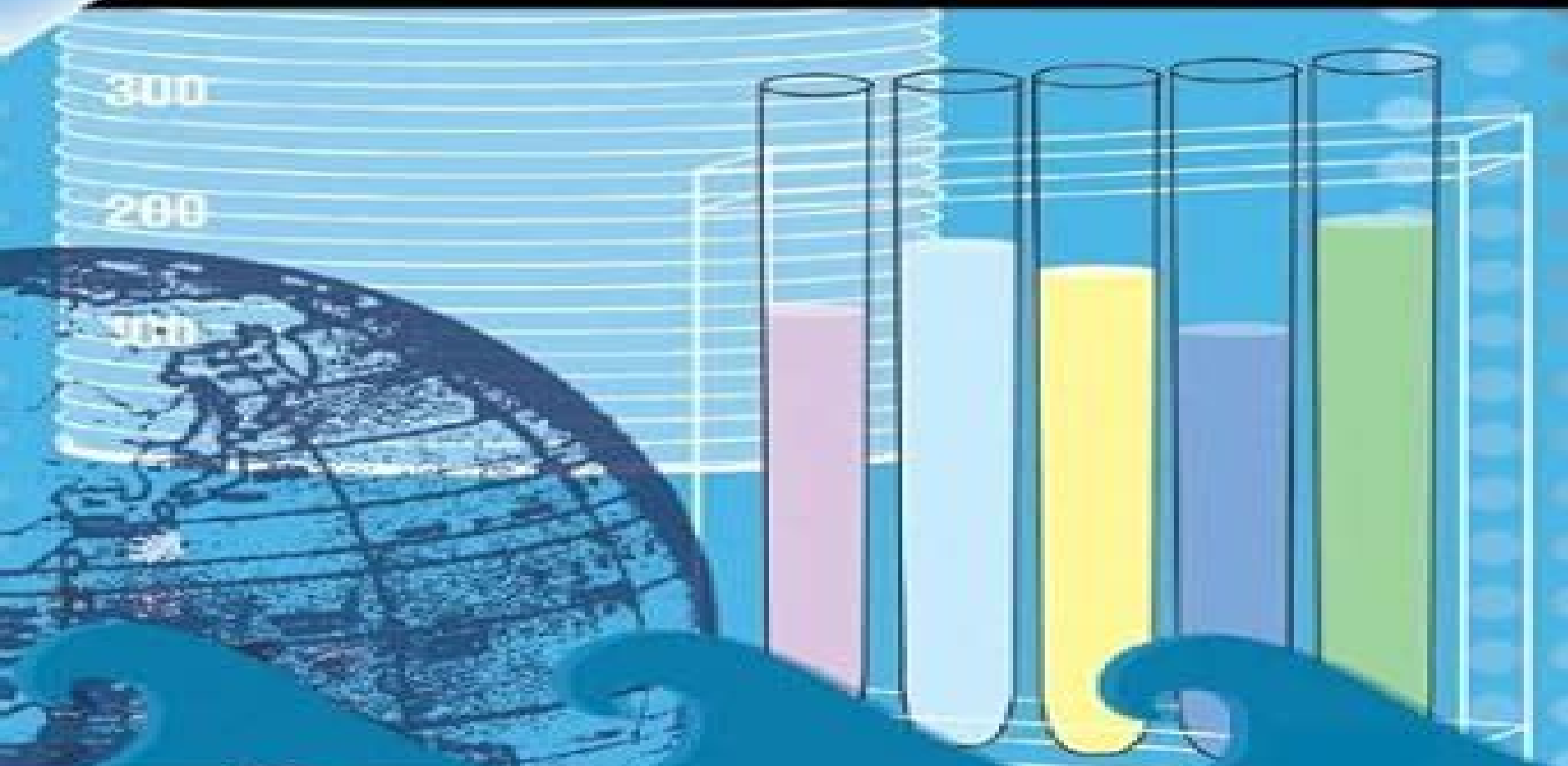


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Top Shelf David E. Newton, 2004 **Environmental Health Perspectives** , 1993 **7th International Symposium on Deep-Sea Corals** Santiago Herrera, Juan Armando Sanchez, Luisa Fernanda Dueñas, 2022-05-03 **Hydrothermal and Submarine Volcanic Activity: Impacts on Ocean Chemistry and Plankton Dynamics** Sophie Bonnet, Ilana Berman-Frank, Douglas G. Capone, Jessica Nicole Fitzsimmons, Cecile Guieu , Joseph A. Resing, 2025-11-06

Most sites of submarine hydrothermal activity remain unknown unexplored and uncharacterized Although we have limited understanding of how these systems interact with and influence the broader ocean recent explorations are illuminating a causal link between the solid earth and ocean function Recent explorations of hydrothermal sites are highlighting the impacts and their feedbacks between geology chemistry physics and biology at different space and time scales These processes extend from the seafloor through the water column and even sometimes up to the surface layer In fact recent discoveries of hydrothermal activity at shallow sites emitting trace metal rich fluids able to reach the euphotic productive ocean layer 0 100 m are likely to modify our understanding of the interactions between hydrothermal systems and ocean biogeochemical cycles This Research Topic welcomes Original Research Review Mini Review Perspective and Opinions articles focusing on subjects such as The lateral and vertical transport mechanisms of hydrothermal plumes into the ocean in various systems The impacts of hydrothermal activity on surface and deep ocean geochemistry i e distribution speciation and bioavailability of biogeochemically relevant and toxic trace elements their isotopes organic matter and gasses The impact of hydrothermal activity on surface ocean communities such as viruses bacteria phytoplankton zooplankton and their diversity activity and impact on marine biogeochemical carbon nitrogen and phosphorus cycles The impact of hydrothermal iron on diazotrophs and feedbacks to plankton community Hydrothermal fluid micro and macro biology The effects of hydrothermal geology geophysics on fluid geochemistry and or biology Research based on a variety of approaches including in situ and satellite observation process studies in controlled or semi controlled systems modeling and omics are welcome

Climate Change and Estuaries Michael J. Kennish, Hans W. Paerl, Joseph R. Crosswell, 2023-09-15 Climate change is having an increasing impact on coastal estuarine and marine environments worldwide This book provides state of the art coverage of climate change effects on estuarine ecosystems from local regional and global perspectives With editors among the most noted international scholars in coastal ecology and estuarine science and contributors who are world class in their fields the chapters in this volume consist of comprehensive studies in coastal estuarine and marine sciences climate change and coastal management and provide an extensive international collection of data in tabular illustrated and narrative formats useful for coastal scientists planners and managers Comprised of three sections 1 physical chemical aspects 2 biological aspects and 3 management aspects the book not only examines climatic and non climatic drivers of change affecting coastal estuarine and marine environments but also their interactions and effects on populations of organisms communities habitats and ecosystem

structure and function Pulling together today s most salient issues and key literature advances for those concerned with coastal management it allows the reader to see across direct and indirect interactions among disciplinary and ecosystem boundaries Climate Change and Estuaries meets the research needs of climate scientists estuarine and marine biologists marine chemists marine geologists hydrologists and coastal engineers while students professors administrators and other professionals will also find it an exhaustive reference

Extreme Benthic Communities in the Age of Global Change Roberto Sandulli, Jeroen Ingels, Daniela Zeppilli, Andrew Kvassnes Sweetman, Sarah Louise Mincks, Furu Mienis, Chih-Lin Wei, 2021-02-11

The Publishers' Trade List Annual ,1985

Integrated Marine Biosphere Research: Ocean Sustainability, Under Global Change, for the Benefit of Society Carol Robinson, Annette Breckwoldt, Alistair James Hobday, Eugene J. Murphy, Prateep Kumar Nayak , Alice Newton, 2025-11-11

Interdisciplinary research spanning natural and social sciences and society is needed to inform decision making for sustainable use and conservation of marine resources and services The Integrated Marine Biosphere Research IMBeR project is an interdisciplinary global environmental change research network with the mission to Promote integrated marine research and enable capabilities for developing and implementing ocean sustainability options within and across the natural and social sciences and communicate relevant information and knowledge needed by society to secure sustainable productive and healthy oceans To achieve this mission the IMBeR science plan identifies three objectives which inform all IMBeR activities including the 2019 IMBeR Future Oceans2 open science conference

- 1 Understanding and quantifying the state and variability of marine ecosystems
- 2 Improving scenarios predictions and projections of future ocean human systems at multiple scales and
- 3 Improving and achieving sustainable ocean governance

This Research Topic welcomes submissions including perspective and opinion papers policy briefs original research articles and reviews related to any of the three interconnected IMBeR objectives These submissions could cover

- 1 the mechanisms of natural climate variability and anthropogenic global change and impacts on marine biogeochemical cycles species and ecosystems and human well being and livelihoods
- 2 modelling studies providing quantitative projections and predictions of future coupled human marine ecosystems including human well being and livelihoods governance processes and infrastructure at global regional and local scales
- 3 syntheses of integrated research highlighting key knowledge gaps recommendations for future action and quantification of the impact of interdisciplinary networks and capacity building activities and
- 4 papers related to improving the science policy society interface of marine research and aiding transition towards sustainable ocean and coastal governance including provision and implementation of trade off options for adaptation and mitigation improving research co design and co production mechanisms and ocean literacy understanding of the role of economic social cultural and political norms and values in marine governance and integration of human behaviour and decision making into global regional and local models

The Topic Editors Carol Robinson Annette Breckwoldt Alistair Hobday Eugene Murphy Prateep Nayak and Alice Newton declare that they are members of the

IMBeR scientific steering committee or IMBeR Human Dimensions Working Group and are collaborating with the IMBeR research community

Towards a Unifying Pan-Arctic Perspective of the Contemporary and Future Arctic Ocean Paul F. J. Wassmann, Dorte Krause-Jensen, Markus A. Janout, Bodil Annikki Bluhm, 2021-08-25 The Topic Editors Paul F J Wassmann, Dorte Krause-Jensen, Markus A Janout and Bodil Annikki Bluhm declare that they are collaborating with the pan arctic community

Organic Ligands in Marine Trace Metal Biogeochemistry Kristen N. Buck, Maeve C. Lohan, Sylvia G. Sander, Christel Hassler, Ivanka Pižeta, 2018-01-11 This research topic highlights the most recent accomplishments of a Scientific Committee on Oceanic Research SCOR Working Group SCOR WG 139 Organic Ligands A Key Control on Trace Metal Biogeochemistry in the Ocean

INIS Atomindex, 1988

Biogeochemical, ecological and biophysical dynamics in the kuroshio, oyashio and their extension regions Guangchao Zhuang, Makio Honda, Jing Zhang, Meixun Zhao, Fei Chai, 2023-08-23

Life in Extreme Environments Ricardo Amils, Pibernat, Cynan Ellis-Evans, Helmut G. Hinghofer-Szalkay, 2007-07-21 From the deepest seafloor to the highest mountain from the hottest region to the cold Antarctic plateau environments labeled as extreme are numerous on Earth and they present a wide variety of features and characteristics The life processes occurring within these environments are equally diverse not only depending on stress factors e.g. temperature, pressure, pH and chemicals but also on the type of life forms ranging from microbes to higher species How is life limited by and adapted to extreme external biotic and abiotic factors This key question summarises the deliberations raised by this exciting and fascinating research area Addressing the challenge of answering this question would help to reveal new insights and refine theories concerning the origin and evolution of life on our planet as well as life beyond Earth Investigating life processes under extreme conditions can also bring clues for understanding and predicting ecosystems responses to global changes Furthermore this area of research has a wide application potential in the fields of biotechnology, chemical industry, pharmaceuticals, biomedicine or cosmetics Investigating Life in Extreme Environments A European perspective European Science Foundation May 2007

Noble Gases Donald P. Porcelli, Chris J. Ballentine, Rainer Wieler, 2018-12-17 Volume 47 of Reviews in Mineralogy and Geochemistry introduces to Noble Gases Although the mass spectrometry principles are not complex the tricks involved in getting better data are often self-taught or passed on by working with individuals who themselves are pushing the boundaries further Furthermore much of the exciting new science is linked with technical developments that allow us to move beyond the current measurement capabilities Be they better crushing devices, laser resonance time-of-flight multiple collection or compressor sources the technical issues are central to progress Contents Noble Gases Noble Science An Overview of Noble Gas Geochemistry and Cosmochemistry Noble Gases in the Solar System Noble Gases in the Moon and Meteorites Radiogenic Components and Early Volatile Chronologies Cosmic Ray Produced Noble Gases in Meteorites Martian Noble Gases Origin of Noble Gases in the Terrestrial Planets Noble Gas Isotope Geochemistry of Mid-Ocean Ridge and Ocean Island Basalts Characterization of Mantle Source Reservoirs Noble

Gases and Volatile Recycling at Subduction Zones The Storage and Transport of Noble Gases in the Subcontinental Lithosphere Models for the Distribution of Terrestrial Noble Gases and the Evolution of the Atmosphere Production Release and Transport of Noble Gases in the Continental Crust Tracing Fluid Origin Transport and Interaction in the Crust Noble Gases in Lakes and Ground Waters Noble Gases in Ocean Waters and Sediments Cosmic Ray Produced Noble Gases in Terrestrial Rocks Dating Tools for Surface Processes K Ar and Ar Ar Dating U Th He Dating Techniques Calibrations and Applications *The Importance of Behavior in the Recruitment of Marine Fauna and Flora* Claire Beatrix Paris, Eric Wolanski, 2020-08-05 *Nature*, 1911 **New Perspectives in Benthic-Pelagic Coupling in Marine and Transitional Coastal Areas** Tamara Cibic, Martina Orlando-Bonaca, Fernando Rubino, 2022-10-06 *Soviet Life*, 1975 Collected Reprints, 1977 **Metabolic Interactions Between Bacteria and Phytoplankton** Xavier Mayali, Sonya Dyhrman, Chris Francis, 2018-06-06 The cycling of energy and elements in aquatic environments is controlled by the interaction of autotrophic and heterotrophic processes In surface waters of lakes rivers and oceans photosynthetic microalgae and cyanobacteria fix carbon dioxide into organic matter that is then metabolized by heterotrophic bacteria and perhaps archaea Nutrients are remineralized by heterotrophic processes and subsequently enable phototrophs to grow The organisms that comprise these two major ecological guilds are numerous in both numbers and in their genetic diversity leading to a vast array of physiological and chemical responses to their environment and to each other Interactions between bacteria and phytoplankton range from obligate to facultative as well as from mutualistic to parasitic and can be mediated by cell to cell attachment or through the release of chemicals The contributions to this Research Topic investigate direct or indirect interactions between bacteria and phytoplankton using chemical physiological and or genetic approaches Topics include nutrient and vitamin acquisition algal pathogenesis microbial community structure during algal blooms or in algal aquaculture ponds cell cell interactions chemical exudation signaling molecules and nitrogen exchange These studies span true symbiosis where the interaction is evolutionarily derived as well as those of indirect interactions such as bacterial incorporation of phytoplankton produced organic matter and man made synthetic symbiosis synthetic mutualism

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