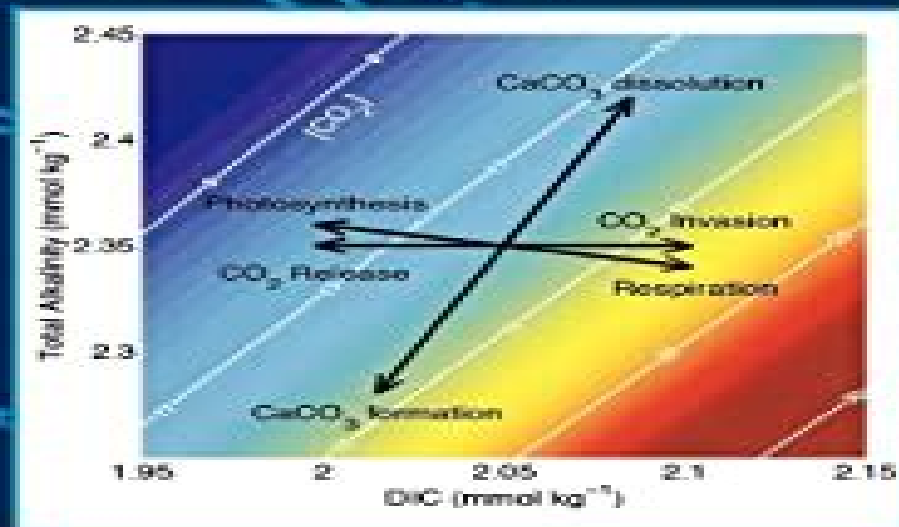




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CO₂ IN SEAWATER: EQUILIBRIUM, KINETICS, ISOTOPES

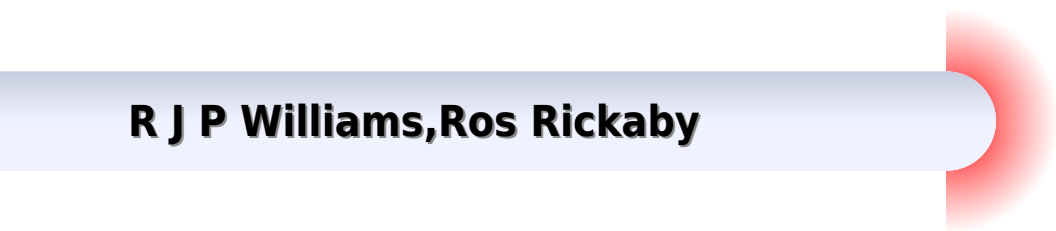
Richard E. Zeebe and Dieter Wolf-Gladrow



Series Editor: David Halpern

Co₂ In Seawater Equilibrium Kinetics Isotopes Volume 65 Elsevier Oceanography Series

R J P Williams, Ros Rickaby



CO₂ In Seawater Equilibrium Kinetics Isotopes Volume 65 Elsevier Oceanography Series:

CO₂ in Seawater: Equilibrium, Kinetics, Isotopes R.E. Zeebe, D. Wolf-Gladrow, 2001-10-15 Full text e book available as part of the Elsevier ScienceDirect Earth and Planetary Sciences subject collection [Boron Proxies in Paleoceanography and Paleoclimatology](#) Bärbel Hönisch, Stephen M. Eggins, Laura L. Haynes, Katherine A. Allen, Katherine D. Holland, Katja Lorbacher, 2019-02-18 Anthropogenic carbon dioxide emissions do not only warm our planet but also acidify our oceans It is currently unclear to which degree Earth's climate and marine life will be impacted by these changes but information from Earth history particularly the geochemical signals of past environmental changes stored in the fossil remains of marine organisms can help us predict possible future changes This book aims to be a primer for scientists who seek to apply boron proxies in marine carbonates to estimate past seawater carbonate chemistry and atmospheric pCO₂ Boron proxies ¹¹B and ¹⁰B/Ca were introduced nearly three decades ago with subsequent strides being made in understanding their mechanistic functioning This text reviews current knowledge about the aqueous systematics the inorganic and biological controls on boron isotope fractionation and incorporation into marine carbonates as well as the analytical techniques for measurement of boron proxies Laboratory and field calibrations of the boron proxies are summarized and similarities between modern calibrations are explored to suggest estimates for proxy sensitivities in marine calcifiers that are now extinct Example applications illustrate the potential for reconstructing paleo atmospheric pCO₂ from boron isotopes Also explored are the sensitivity of paleo ocean acidity and pCO₂ reconstructions to boron isotope proxy systematics that are currently less well understood including the elemental and boron isotopic composition of seawater through time seawater alkalinity temperature and salinity and their collective impact on the uncertainty of paleo reconstructions The ¹⁰B/¹¹B proxy is based on the same mechanistic principles as the boron isotope proxy but empirical calibrations suggest seawater pH is not the only controlling factor ¹⁰B/¹¹B therefore has the potential to provide a second carbonate parameter that could be paired with ¹¹B to fully constrain the ocean carbonate system but the associated uncertainties are large This text reviews and examines what is currently known about the ¹⁰B/¹¹B proxy systematics As more scientists embark on characterizing past ocean acidity and atmospheric pCO₂ *Boron in Paleoceanography and Paleoclimatology* provides a resource to introduce geoscientists to the opportunities and complications of boron proxies including potential avenues to further refine them *CO₂ in Seawater: Equilibrium, Kinetics, Isotopes* R.E. Zeebe, D. Wolf-Gladrow, 2001-10-15 Carbon dioxide is the most important greenhouse gas after water vapor in the atmosphere of the earth More than 98% of the carbon of the atmosphere ocean system is stored in the oceans as dissolved inorganic carbon The key for understanding critical processes of the marine carbon cycle is a sound knowledge of the seawater carbonate chemistry including equilibrium and nonequilibrium properties as well as stable isotope fractionation Presenting the first coherent text describing equilibrium and nonequilibrium properties and stable isotope fractionation among the elements of the carbonate system This volume presents an overview and a synthesis of these

subjects which should be useful for graduate students and researchers in various fields such as biogeochemistry chemical oceanography paleoceanography marine biology marine chemistry marine geology and others The volume includes an introduction to the equilibrium properties of the carbonate system in which basic concepts such as equilibrium constants alkalinity pH scales and buffering are discussed It also deals with the nonequilibrium properties of the seawater carbonate chemistry Whereas principle of chemical kinetics are recapitulated reaction rates and relaxation times of the carbonate system are considered in details The book also provides a general introduction to stable isotope fractionation and describes the partitioning of carbon oxygen and boron isotopes between the species of the carbonate system The appendix contains formulas for the equilibrium constants of the carbonate system mathematical expressions to calculate carbonate system parameters answers to exercises and more

Aquatic Chemistry Concepts, Second Edition James F. Pankow, 2019-10-31

Aquatic Chemistry Concepts Second Edition is a fully revised and updated textbook that fills the need for a comprehensive treatment of aquatic chemistry and covers the many complicated equations and principles of aquatic chemistry It presents the established science of equilibrium water chemistry using the uniquely recognizable step by step Pankow format which allows a broad and deep understanding of aquatic chemistry The text is appropriate for a wide audience including undergraduate and graduate students industry professionals consultants and regulators Every professional using water chemistry will want this text within close reach and students and professionals alike will expect to find at least one copy on their library shelves

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- Discussions of how to carry out complex calculations regarding the chemistry of lakes rivers groundwater and seawater
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Special foreword by Jerry L Schnoor There s a lot to like about a book on water chemistry that lays it out simply Einstein said that everything should be as simple as it can be but not simpler Wise advice And that is what James F Pankow has accomplished in the second edition of his textbook Aquatic Chemistry Concepts It covers the waterfront of essential inorganic chemistry topics and it supplies enough examples to lead the student toward problem solving

From the Foreword Jerry L Schnoor

The Role of Ocean-based Negative Emission Technologies for Climate Mitigation David Peter Keller, Lennart Thomas Bach, Kerry Brent, Wilfried Rickels, 2022-02-16

Ocean in the Earth System Patrick Prouzet, 2014-12-15

Complexity is an intrinsic property of natural systems In the oceanic system it is linked to many interactions with the atmosphere geosphere and biosphere with which it exchanges energy and matter Complexity of the

ocean system has at different spatial and temporal scales hydrodynamic mechanisms of these exchanges and dynamics of elements and compounds they are involved in biogeochemical cycles or used as tracers By its pedagogical approach it defines the terms methods techniques and analytical tools used Then it analyzes the consequences of climate change future projections human impact and the concept introduced with planktonic pelagic ecosystem component *Future Of Marine Life In A Changing Ocean, The: The Fate Of Marine Organisms And Processes Under Climate Change And Other Types Of Human Perturbation* M Debora Iglesias-rodriguez, 2019-12-24 This book brings together the state of our knowledge on the interactions between climate change and marine biota It focusses broadly on the environmental stressors during the Anthropocene period when human activities started to have a significant global impact on earth's geological imprint and ecosystems This period of rapid change is accompanied by rising carbon dioxide levels increasing global temperatures loss of oxygen in aquatic systems and the fast release of pollutants into the environment among many other environmental stressors originating from large scale human activities such as widespread overfishing The Future of Marine Life in a Changing Ocean starts by providing the reader with a brief background on fundamental concepts in ocean science and climate It then moves on to a brief description of recent changes in marine chemistry such as ocean acidification a decline in oxygen levels in the oceans ocean warming and marine pollution with some examples of shifts in ecosystem diversity The chapters discuss these topics in the context of how a changing ocean impacts ecosystem health the biological carbon pump the sequestration of carbon dioxide from the surface ocean into the deep sea and the perceived notion of the ocean's unlimited resilience to maintain its role as a carbon reservoir Topics include threats to marine diversity ecosystem function latitudinal shifts in productivity and diversity and changes in global cycling of elements such as carbon It concludes with an analysis of the impact of climate change on food security Written for undergraduate and graduate students and researchers in the natural and social sciences this book provides a science background to study environmental change in marine ecosystems as well as a science framework to study policy marine law and the economics of climate change This book is an essential read for anyone hoping to understand key challenges facing our oceans *Evolution's Destiny* R J P Williams, Ros Rickaby, 2012-08-31 This book is written as an addition to Darwin's work and that of molecular biologists on evolution so as to include views of it from the point of view of chemistry rather than just from our knowledge of the biology and genes of organisms By concentrating on a wide range of chemical elements not just those in traditional organic compounds we show that there is a close relationship between the geological or environmental chemical changes from the formation of Earth and those of organisms from the time of their origin These are considerations which Darwin or other scientists could not have explored until very recent times since sufficient analytical data were not available They lead us to suggest that there is a combined geo and bio chemical evolution that of an ecosystem which has had a systematic chemical development In this development the arrival of new very similar species is shown to be by random Darwinian competitive selection processes

such that a huge variety of species coexist with only minor differences in chemistry and advantages This is in agreement with previous studies On the large scale of evolution of very different organisms and over greater timescales by way of contrast we observe that groups of species have special different chemical features and function It is more difficult to understand how they evolved and therefore we examine their chemical development in detail Overall there is a cooperative evolution of a chemical system driven by capture of energy mainly from the sun and its degradation in which the chemistry of both the environment and organisms are facilitating intermediates We shall suggest that the overall drive of the whole joint system is to optimise the rate of this energy degradation Since the environmental changes are inorganic and relatively fast they move inevitably to equilibrium The living part of the system the organisms under the influence of this inevitable environmental change are forced to follow but as they are increasingly energised and their reactions are slow they move further away from equilibrium We are able to explore the ways in which this chemical system evolved recognising that as complexity of the chemistry of organisms increased they had to be formed from more and more compartments and to become part of a chemically cooperative overall activity They could not remain as isolated species Only in the last chapter do we attempt to make a connection between the changing chemistry of organisms with the coded molecules of each cell which have to exist to explain reproduction

Routledge Handbook of Maritime Regulation and Enforcement Robin Warner, Stuart Kaye, 2015-08-27 With advances in technology and maritime transport human use of the ocean now extends beyond the traditional activities of navigation and fishing Emerging activities such as bioprospecting deep seabed mineral and hydrocarbon exploration and exploitation offshore renewable energy developments and marine scientific probes of deep sea areas challenge the applicability of maritime law and policy in new ways This handbook examines current regulatory and enforcement instruments and mechanisms for different sectors of maritime activity Covering various jurisdictions its specially commissioned chapters are authored by some of the world's foremost authorities on maritime law and offer unique perspectives on maritime law policy and practice This highly relevant collection is organised into four parts International Law Considerations in Maritime Regulation and Enforcement Role of States and other International Actors in Maritime Regulation and Enforcement Regulation and Enforcement in Different Maritime Sectors Current Issues and Future Challenges This comprehensive reference work will be of interest to scholars and students of maritime law practitioners and non lawyers interested in the regulation of offshore areas as well as policy makers

Hydrothermal Circulation and Seawater Chemistry Laurence A. Coogan, Alexandra V. Turchyn, Ann G. Dunlea, Wolfgang Bach, 2025-11-19 Exploring how oceanic hydrothermal systems influence seawater chemistry The chemical exchange between seawater and the underlying ocean crust occurs at temperatures ranging from about 2 °C on the seafloor to more than 500 °C deep in the crust These hydrothermal reactions strongly influence the chemical composition of seawater and in turn seawater chemistry impacts hydrothermal exchange these feedbacks play a crucial role in the Earth system Hydrothermal Circulation and Seawater Chemistry Links and

Feedbacks explores on and off axis hydrothermal systems and their effects on ocean chemistry and the Earth system Volume highlights include Hydrothermal fluxes dependent on boundary conditions such as climate and sedimentation history Low temperature off axis systems that have large fluxes of elements Observational and experimental perspectives of on axis hydrothermal processes Methods for tracking hydrothermal and oceanic processes using sediments or isotope proxies The role of oceanic hydrothermal systems in planetary scale cycles on Earth and beyond 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

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