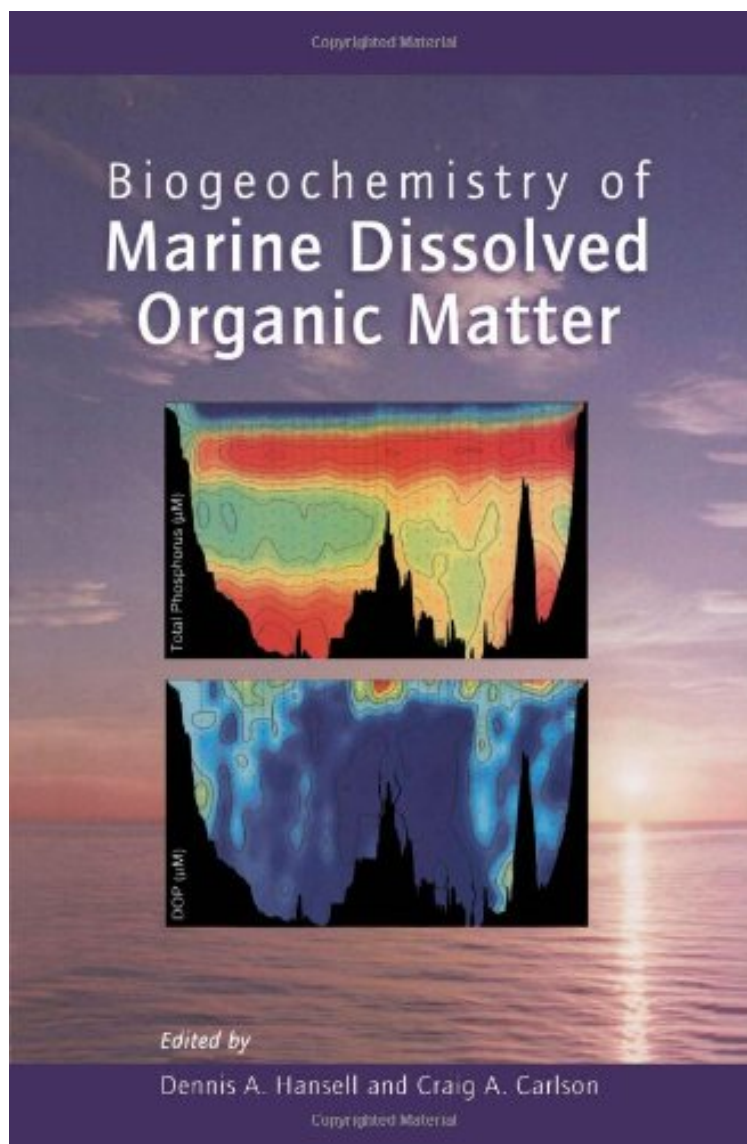


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From Academic Press : Biogeochemistry of Marine Dissolved Organic Matter before purchasing it in order to gauge whether or not it would be worth my time, and all praised Biogeochemistry of Marine Dissolved Organic Matter:

1 of 1 people found the following review helpful. Informative and well integrated book By Huei-ting Lin I am studying the dissolved organic carbon cycle (DOC) in the marine environment. This book introduced important key issues regarding DOC, methods of how to research about these issues and some interesting results. The written style is easy to follow. The chapters are well selected. I always find what I need in this book and the information very well

integrated. However, it was published in 2003 and many of the information needs to be updated. What I did is go from the references provided in the end of each chapter and then go online to search for those authors' latest publication. 0 of 0 people found the following review helpful. Absolutely essential reading for DOM aficionados! By B. Walker This book provides a very comprehensive review of marine DOM. I first purchased this book when entering graduate school and have found myself coming back to for insight time and time again. Throughout my graduate career, I've also cited its chapters many times in proposals, publications, grants... There is also additional data in this book not currently available in the literature, making this a must have for all DOM aficionados! Chapters are incredibly thorough and are authored by outstanding leaders in the field and break down by general DOM topics (chemical composition, production/removal, ^{14}C content, estuaries, DON, modeling, etc). This would also be an excellent text for a graduate level coursework. 0 of 0 people found the following review helpful. The best book you can get when studying DOM By Marie Louise K. Schroter The Hansell-Carlson-book is probably the best and most up to date book you can get within the field. It has a very covering index and is very well written and can therefore be highly recommended.

Interest in marine dissolved organic matter (DOM) is very high because it plays an important role in oceanic and global carbon cycling, which in turn impacts weather. Understanding the processes involved in the transformations of carbon, phosphorus, nitrogen, and other major elements in the oceans has been a primary goal of marine biogeochemists and oceanographers over the past decade. This book, in 16 chapters with over 170 figures and tables, reports on the major advances in this area by a distinguished group of international chemical and biological oceanographers. Additionally, it focuses on the role of DOM in elemental cycling - where the greatest informational need currently exists. Biological cycling of the major elements through DOM is assessed throughout, with particular emphasis on the role of marine microbes as active agents in the processing of this material. The ocean science community's advances for inclusion of DOM in both ecosystem and global circulation models are evaluated

"Hansell and Carlson have assembled a team of international experts to produce the definitive, authoritative reference work on the chemistry and ecology of marine DOM. Anyone requiring a key to the literature of marine organic geochemistry and contemporary DOM research should have this volume within easy reach!" --Donald L. Rice, Chemical Oceanography Program, National Science Foundation, Arlington, Virginia, U.S.A. "...essential reading and a valuable reference book for marine scientists from a wide number of disciplines: chemists, microbiologists and specialists in optics of natural waters. Hansell and Carlson are to be congratulated for their vision of the structure of the book and its timing, and the authors for thoroughness of coverage in the chapters. --Peter J. LeB. Williams, School of Ocean Sciences, University of Wales, Bangor, U.K. "This book is both an excellent textbook for students wishing to study the biogeochemical role of DOM in the oceans, as well as an outstanding reference text for researchers wishing to consult a well-written, well-edited text that is both informative and interesting... I am sure that many of the chapters will soon become essential reading for many oceanography and biogeochemistry courses." --Emma J. Rochelle-Newall, Laboratoire d'Océanographie de Villefranche sur Mer EGS Newsletter, 31-January 2003 From the Back Cover "Dissolved organic matter (DOM) is the soil of the sea a large, biochemically resistant reservoir of organic matter providing a substrate for life, and a source for nutrient regeneration, ion exchange capacity, light and heat absorption, and so on. Marine DOM, however, is much less conspicuous than terrestrial soil. It is, in fact, nearly invisible. In this book, Hansell and Carlson and the many contributing authors tell the story of making DOM, the soil of the sea, visible." From the Foreword by Hugh W. Ducklow, School of Marine Science, The College of William and Mary Praise For This Volume "Hansell and Carlson have assembled a team of international experts to produce the definitive, authoritative reference work on the chemistry and ecology of marine DOM. Anyone requiring a key to the literature of marine organic geochemistry and contemporary DOM research should have this volume within easy reach!" Donald L. Rice, Chemical Oceanography Program, National Science Foundation, Arlington, Virginia, U.S.A. "...essential reading and a valuable reference book for marine scientists from a wide number of disciplines: chemists, microbiologists and specialists in optics of natural waters. Hansell and Carlson are to be congratulated for their vision of the structure of the book and its timing, and the authors for thoroughness of coverage in the chapters. Peter J. LeB. Williams, School of Ocean Sciences, University of Wales, Bangor, U.K. About the Author Hansell was raised in the San Francisco Bay Area, receiving a bachelors degree in biology at Humboldt State University. He was awarded a masters degree in fisheries science at Auburn University and a doctorate in oceanography at the University of Alaska Fairbanks in 1989, with a focus on the nitrogen cycle of subarctic seas. He was awarded postdoctoral opportunities at the Univ. of California, Santa Cruz and at the Univ. of Washington, then built a research laboratory at the Bermuda Institute of Ocean Science (BIOS). In 2001, he was appointed Professor at the Rosenstiel School of Marine and Atmospheric Science (RSMAS) at the University of Miami. Hansell's research on dissolved organic matter, particularly the cycling of carbon through that pool, has been strongly supported by the U.S. National Science Foundation. Research opportunities arose through his involvement with the U.S. Joint Global Ocean Flux (JGOFS) and the World Ocean Circulation Experiment (WOCE) projects. These projects led to research in all of

the major ocean basins and several marginal seas. His laboratory has supported oceanic time-series, process studies and ocean basin-spanning surveys (long lines). He continues in these studies today, including the Repeat Hydrography project organized by U.S. CLIVAR. He has published 100 journal articles and chapters on ocean biogeochemistry. Amongst many services, Hansell was chairman of the U.S. Carbon Cycle Science Steering Group and chairman of the Division of Marine and Atmospheric Chemistry at RSMAS. He presently serves as a member of the International Scientific Advisory Committee, Centro De Investigacin En Ecosistemas De La Patagonia, Coyhaique, Aysn, Chile, as a member of the Board of Trustees of BIOS, and as a member of the Advisory Board, Florida Center for Ocean Sciences Education Excellence (COSEE). He was elected to give the 2014 Sverdrup Lecture by the Ocean Sciences Section of the American Geophysical Union. Carlson grew up in New England and received his Bachelors degree from Colby College (Waterville, ME) in 1986 and his Ph.D. from University of Marylands Horn Point Laboratory in Cambridge MD in 1994. His graduate research focused on microbial ecology and how microbes process dissolved organic matter in open ocean systems. Much of his graduate work was conducted in the Sargasso Sea in conjunction with the Bermuda Atlantic Time-series Study (BATS) site. He moved to the Bermuda Institute for Ocean Science (BIOS) in 1994 for his post doctoral work where he focused on the biogeochemistry of dissolved organic matter in the oceanic systems of the Southern Ocean and the North Atlantic Subtropical Gyre. In 1996 he joined the faculty of BIOS where he initiated programs in microbial oceanography. In 2001 Carlson accepted a faculty position at the University of California, Santa Barbara where he is now a full professor. Carlsons research interests, supported by the U.S. National Science Foundation, continue to be shaped by an interdisciplinary blend of marine microbiology and organic biogeochemistry. Specifically his research has focused on the role marine microbes play in the cycling of elements through oceanic dissolved organic matter (DOM) and the biogeochemical significance of DOM in the marine carbon cycle. His earlier work demonstrated the importance of DOM in ocean biogeochemistry and carbon export in the ocean and subsequent work showed how microbial processing of DOM affects its quantity and character through time and space. In 2002 received the American Geophysical Unions Ocean Science Early Career Award for his contributions towards the understanding of the ocean carbon cycle. Carlson currently serves as Vice-Chair of the Ocean Carbon Biogeochemistry committee, is the Chair of the Ecology, Evolution and Marine Biology Department at UCSB and is Co-editor of The Annual s of Marine Science. His hobbies include following New England Sports, cycling and wood working.