

Modeling Methods for Marine Science

David M. Glover, William J. Jenkins and Scott C. Doney



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Modeling Methods For Marine Science

Daniel R. Lynch



Modeling Methods For Marine Science:

Modeling Methods for Marine Science David M. Glover, 2011 This is a textbook on modelling data analysis and numerical techniques for advanced students and researchers in chemical biological geological and physical oceanography

Modeling Methods for Marine Science Professor of Molecular Genetics Department of Anatomy and Physiology David M Glover, William J. Jenkins, Scott Christopher Doney, 2014-05-14 This is a textbook on modelling data analysis and numerical techniques for advanced students and researchers in chemical biological geological and physical oceanography Modeling

Methods for Marine Science David M. Glover, William J. Jenkins, Scott C. Doney, 2011-06-02 This advanced textbook on modeling data analysis and numerical techniques for marine science has been developed from a course taught by the authors for many years at the Woods Hole Oceanographic Institute The first part covers statistics singular value decomposition error propagation least squares regression principal component analysis time series analysis and objective interpolation The second part deals with modeling techniques finite differences stability analysis and optimization The third part describes case studies of actual ocean models of ever increasing dimensionality and complexity starting with zero dimensional models and finishing with three dimensional general circulation models Throughout the book hands on computational examples are introduced using the MATLAB programming language and the principles of scientific visualization are emphasised Ideal as a textbook for advanced students of oceanography on courses in data analysis and numerical modeling the book is also an invaluable resource for a broad range of scientists undertaking modeling in chemical biological geological and physical oceanography Field Methods in Marine Science Scott Milroy, 2022-09-10 Field Methods in Marine Science From

Measurements to Models is an authoritative guide of the methods most appropriate for field research within the marine sciences from experimental design to data analysis Written for upper level undergraduate and graduate students as well as early career researchers this textbook also serves as an accessible introduction to the concepts and practice of modeling marine system dynamics This textbook trains the next generation of field scientists to move beyond the classic methods of data collection and statistical analysis to contemporary methods of numerical modeling to pursue the assimilation and synthesis of information not the mere recording of data Boxes and side bars highlight important questions interesting facts relevant examples and research techniques that supplement the text Students and researchers alike will find the thorough appendices useful as a way of expanding comprehension of fundamental concepts Encyclopedia of Ocean Sciences

, 2019-04-12 The oceans cover 70% of the Earth's surface and are critical components of Earth's climate system This new edition of Encyclopedia of Ocean Sciences Six Volume Set summarizes the breadth of knowledge about them providing revised up to date entries as well coverage of new topics in the field New and expanded sections include microbial ecology high latitude systems and the cryosphere climate and climate change hydrothermal and cold seep systems The structure of the work provides a modern presentation of the field reflecting the input and different perspective of chemical physical and

biological oceanography the specialized area of expertise of each of the three Editors in Chief In this framework maximum attention has been devoted to making this an organic and unified reference Represents a one stop organic information resource on the breadth of ocean science research Reflects the input and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief New and expanded sections include microbial ecology high latitude systems and climate change Provides scientifically reliable information at a foundational level making this work a resource for students as well as active researches

Spatiotemporal Modeling and Analysis in Marine Science Junyu He,Xi Xiao,Zhenhong Du,2023-11-29 With the development of earth observation technologies such as satellite remote sensing unmanned aerial vehicle autonomous underwater vehicle etc an era of big data with important and non negligible spatial temporal attributes comes Novel and rigorous spatiotemporal methodologies and models are needed to process and analyze marine big data Since many marine environmental processes such as pollutants diffusion algae distributions etc vary or evolve across spatiotemporal domains detecting the distributions and patterns of marine fauna and particularly in the coastal regions will improve our understanding of marine systems and can be beneficial in marine environmental management The goals of this Research Topic therefore are two fold a to develop methodologies and models in theory and applications including spatiotemporal geostatistics geographic information system deep learning etc b to quantitatively gain the knowledge of the marine environment This Research Topic will provide a platform for researchers to share and exchange their new knowledge gained in a spatiotemporal domain of marine or coastal regions This Research Topic will cover but is not limited to the following areas Spatiotemporal variations of physical chemical biological indicators such as chlorophyll temperature salinity colorful dissolved organic matter suspended solids nutrients microplastic etc in marine Spatiotemporal variations of potential fishing grounds in marine Spatiotemporal variations of the ecosystems in coastal regions such as salt marshes mangroves seagrass macroalgae etc Spatiotemporal distributions of the pollutants such as heavy metals polycyclic aromatic hydrocarbon etc in marine and sediments Spatiotemporal evolution pattern modeling and prediction of the marine disasters and abnormal phenomena such as algal bloom typhoons SST anomalies etc

Mathematical Methods in the Earth and Environmental Sciences Adrian Burd,2019-04-18 An accessible introduction to the mathematical methods essential for understanding processes in the Earth and environmental sciences

Deep Learning for Marine Science, volume II Haiyong Zheng,Jie Nie,Xiangrong Zhang,Huiyu Zhou ,An-An Liu,2024-11-07 This Research Topic is the second volume of this collection You can find the original collection via <https://www.frontiersin.org/research-topics/45485-deep-learning-for-marine-science> Deep learning DL is a critical research branch in the fields of artificial intelligence and machine learning encompassing various technologies such as convolutional neural networks CNNs recurrent neural networks RNNs Transformer networks and Diffusion models as well as self supervised learning SSL and reinforcement learning RL These technologies have been successfully applied to scientific research and numerous aspects of

daily life With the continuous advancements in oceanographic observation equipment and technology there has been an explosive growth of ocean data propelling marine science into the era of big data As effective tools for processing and analyzing large scale ocean data DL techniques have great potential and broad application prospects in marine science Applying DL to intelligent analysis and exploration of research data in marine science can provide crucial support for various domains including meteorology and climate environment and ecology biology energy as well as physical and chemical interactions Despite the significant progress in DL its application to the aforementioned marine science domains is still in its early stages necessitating the full utilization and continuous exploration of representative applications and best practices

Modelling Coastal And Marine Processes (2nd Edition) Phil Dyke, 2016-02-05 Modelling is now an accepted part in the understanding prediction and planning of environmental strategies Perfect for undergraduate students and non specialist readers Modelling Coastal and Marine Processes 2nd Edition offers an introduction into how coastal and marine models are constructed and used The mathematics statistics and numerical techniques used are explained in the first few chapters making this book accessible to those without a high level maths background Later chapters cover modelling sea bed friction tides shallow sea dynamics and ecosystem dynamics Importantly there is also a chapter on modelling the impact of climate change on coastal and near shore processes New to this revised edition is a chapter on tides tsunamis and the prediction of sea level and additional material on the new application of the numerical techniques flux corrected transport finite volumes and adaptive grids to coastal and marine modelling

Particles in the Coastal Ocean Daniel R. Lynch, 2015 This book summarizes the modeling of the transport evolution and fate of particles in the coastal ocean for advanced students and researchers

ICYMARE - Early Career Researchers in Marine Science Simon Jungblut, Carolin Müller, Lena Rölfer, Yvonne Schadowell, 2025-06-05 The International Conference for Young Marine Researchers ICYMARE is a recently founded bottom up driven networking initiative ICYMARE conducts an annual on site conference event as well as a monthly Online Forum to foster international exchange and networking among marine early career researchers In both cases on site conference and Online Forum the early careers organize and conduct the whole event but also identify the conference topics and prepare and moderate their topical sessions This Research Topic aims to feature articles authored by early career researchers who were involved as a conference or Online Forum session hosts in the ICYMARE initiative As emerging experts in their respective fields of marine science they are invited to contribute review articles on specific topics within the topical frame of their ICYMARE conference session Thus articles on this Research Topic may come from all fields of marine sciences as it reflects the scope of the ICYMARE conferences

Ocean Circulation and Climate Scott C. Doney, 2013-10-22 Ocean physics plays a central role in structuring the large scale patterns and functioning of ocean ecosystems and climate variability impacts marine biota in a wide variety of ways Primary production by phytoplankton forms the base of the pelagic ocean food web and is modulated by temperature nutrient supply light and mixed layer depth Temperature influences a host

of organism physiological rates and temperature and circulation are determining factors in the geographic ranges of many marine species. Climate variations alter predator-prey interactions, interspecies competition, the seasonal timing of biological events or phenology, the spread of diseases, parasites and invasive species, and the biogeochemical cycling of carbon, nutrients, and many trace chemicals. Ocean biology in turn can affect climate by influencing the atmospheric composition of radiatively important trace gases such as carbon dioxide, nitrous oxide, and dimethyl sulfide. Chlorophyll also modifies the vertical absorption profile of solar radiation and thus influences sea surface temperature and mixed layer depth. Based on historical observations, biological effects are already evident in response to anthropogenic ocean warming and sea ice melt. Future climate change impacts are expected to grow in magnitude due to further warming and other physical changes as well as synergistic effects with other human stressors such as ocean acidification, deoxygenation, and coastal nutrient eutrophication.

Oceanographic Analysis with R Dan E. Kelley, 2018-10-17. This book presents the R software environment as a key tool for oceanographic computations and provides a rationale for using R over the more widely used tools of the field such as MATLAB. Kelley provides a general introduction to R before introducing the *oce* package. This package greatly simplifies oceanographic analysis by handling the details of discipline-specific file formats, calculations, and plots. Designed for real-world application and developed with open-source protocols, *oce* supports a broad range of practical work. Generic functions take care of general operations such as subsetting and plotting data, while specialized functions address more specific tasks such as tidal decomposition, hydrographic analysis, and ADCP coordinate transformation. In addition, the package makes it easy to document work because its functions automatically update processing logs stored within its data objects. Kelley teaches key R functions using classic examples from the history of oceanography, specifically the work of Alfred Redfield, Gordon Riley, J. Tuzo Wilson, and Walter Munk. Acknowledging the pervasive popularity of MATLAB, the book provides advice to users who would like to switch to R. Including a suite of real-life applications and over 100 exercises and solutions, the treatment is ideal for oceanographers, technicians, and students who want to add R to their list of tools for oceanographic analysis.

Deep Learning for Marine Science Haiyong Zheng, Mark C. Benfield, Hongsheng Bi, Xuemin Cheng, 2024-05-15. Deep learning (DL) is mainly composed of deep and complex neural networks such as recurrent networks and convolutional networks. It is an emerging research branch in the field of artificial intelligence and machine learning. DL revolution has a far-reaching impact on all scientific disciplines and every corner of our lives. With continuing technological advances, marine science is entering into the big data era with the exponential growth of information. DL is an effective means of harnessing the power of big data. Combined with unprecedented data from cameras, acoustic recorders, satellite remote sensing, and large model outputs, DL enables scientists to solve complex problems in biology, ecosystems, climate, energy, as well as physical and chemical interactions. Although DL has made great strides, it is still only beginning to emerge in many fields of marine science, especially towards representative applications and best practices for the automatic analysis of marine organisms and marine

environments DL in nowadays marine science mainly leverages cutting edge techniques of deep neural networks and massive data which collected by in situ optical or acoustic imaging sensors for underwater applications such as plankton classification and coral reef detection This research topic aims to expand the applications of marine science to cover all aspects of detection classification segmentation localization and density estimation of marine objects organisms and phenomena

Treatise on Geochemistry, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume

Springer Handbook of Ocean Engineering
Manhar R. Dhanak, Nikolaos I. Xiros, 2016-07-23 This handbook is the definitive reference for the interdisciplinary field that is ocean engineering It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems concepts and operations in the maritime environment as well as providing a comprehensive update on contemporary leading edge ocean technologies Coverage includes an overview on the fundamentals of ocean science ocean signals and instrumentation coastal structures developments in ocean energy technologies and ocean vehicles and automation It aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean coastal offshore and marine engineering and naval architecture The Springer Handbook of Ocean Engineering is organized in five parts Part A Fundamentals Part B Autonomous Ocean Vehicles Subsystems and Control Part C Coastal Design Part D Offshore Technologies Part E Energy Conversion

Physical Oceanography Processes at Eastern Boundary Upwelling Systems Francisco Machin, Jose Gomez-Valdes, 2023-12-29 Eastern boundary upwelling systems EBUS have historically received attention from the scientific community due to their impact on the economic development of these

highly productive systems Remote sensing numerical modeling and in situ observations have increased their spatial and temporal resolutions during the last 40 years in their strategy to provide reliable products about the actual state of the ocean The assembly of several data sources currently constitutes an opportunity to increase our knowledge about the present and future state of the relatively narrow and highly variable EBUS The primary forcing mechanism in the upwelling regions is the wind stress in areas close to the coast Long term trends in wind intensity in upwelling areas present considerable uncertainties as the different wind databases produce divergent results On the other hand although the effect of climate change in the interior ocean is increasing temperatures in upwelling areas the long term trends seem to be in the opposite direction Hence assessing the long term impact of the environmental conditions on upwelling development represents a major challenge for the scientific community This special issue aims to discuss the state of the art understanding of dynamical processes governing the ocean at the eastern boundary upwelling systems in a changing ocean

Microbial Ecology in the North Pacific Subtropical Gyre Samuel T. Wilson, Matthew J. Church, 2018-11-16 The microbial community in the oligotrophic North Pacific Subtropical Gyre is dominated by unicellular microorganisms less than a few micrometers in size Despite the persistent low nutrient concentrations phytoplankton growth rates appear near maximal sustained by the recycling of nutrients with plankton population sizes regulated by processes such as zooplankton grazing and viral lysis Seasonal pulses of particle export to the deep sea and increases in phytoplankton abundance occur during the summer months however the factors that result in these imbalances in growth and loss processes are not well understood Nonetheless as a result of persistent fieldwork and development of sensitive methodologies the biogeochemical and ecological dynamics occurring over timescales ranging from diel to interannual are being revealed This Research Topic covers multiple aspects of microbial oceanography in the oligotrophic North Pacific Subtropical Gyre including identification and isolation of microorganisms quantification of microbial biomass and turnover metabolism and physiological activities and microbial mediated biogeochemical cycling All of the papers use field data collected by either the Hawaii Ocean Time series HOT program the Center for Microbial Oceanography Research and Education C MORE or the Simons Collaboration on Ocean Processes and Ecology SCOPE These three programs have greatly increased our understanding of microbial ecology and biogeochemical cycling in the NPSG in part by providing unparalleled access to the NPSG on oceanographic research vessels

Satellite Altimetry for Earth Sciences Frédéric Frappart, Ole Andersen, Sergey Lebedev, Guillaume Ramillien, 2019-04-09 Satellite altimetry is a radar technique for measuring the topography of the Earth's surface It was initially designed for measuring the ocean's topography with reference to an ellipsoid and for the determination of the marine geoid Satellite altimetry has provided extremely valuable information on ocean science e.g. circulation surface geostrophic currents eddy structures wave heights and the propagation of oceanic Kelvin and Rossby waves With more than 25 years of observations it is also becoming vital to climate research providing accurate measurements of sea level variations

from regional to global scales Altimetry has also demonstrated a strong potential for geophysical cryospheric and hydrological research and is now commonly used for the monitoring of Arctic and Antarctic ice sheet topography and of terrestrial surface water levels This book aims to present reviews and recent advances of general interest in the use of radar altimetry in Earth sciences Manuscripts are related to any aspect of radar altimetry technique or geophysical applications We also encourage manuscripts resulting from the application of new altimetric technology SAR SARin and Ka band and improvements expected from missions to be launched in the near future i e SWOT

Oceanography and Marine Biology S. J. Hawkins, A. L. Allcock, A. E. Bates, L. B. Firth, I. P. Smith, S. E. Swearer, P. A. Todd, 2019-08-02

Oceanography and Marine Biology An Annual Review remains one of the most cited sources in marine science and oceanography The ever increasing interest in work in oceanography and marine biology and its relevance to global environmental issues especially global climate change and its impacts creates a demand for authoritative reviews summarizing the results of recent research This volume covers topics that include resting cysts from coastal marine plankton facilitation cascades in marine ecosystems and the way that human activities are rapidly altering the sensory landscape and behaviour of marine animals For more than 50 years OMBAR has been an essential reference for research workers and students in all fields of marine science From Volume 57 a new international Editorial Board ensures global relevance with editors from the UK Ireland Canada Australia and Singapore The series volumes find a place in the libraries of not only marine laboratories and institutes but also universities Previous volume Impact Factors include Volume 53 4 545 Volume 54 7 000 Volume 55 5 071 Guidelines for contributors including information on illustration requirements can be downloaded on the Downloads Updates tab on the volume s CRC Press webpage Chapters 2 3 4 5 6 and 7 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

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