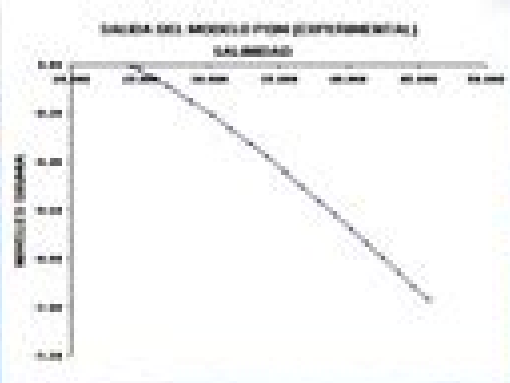
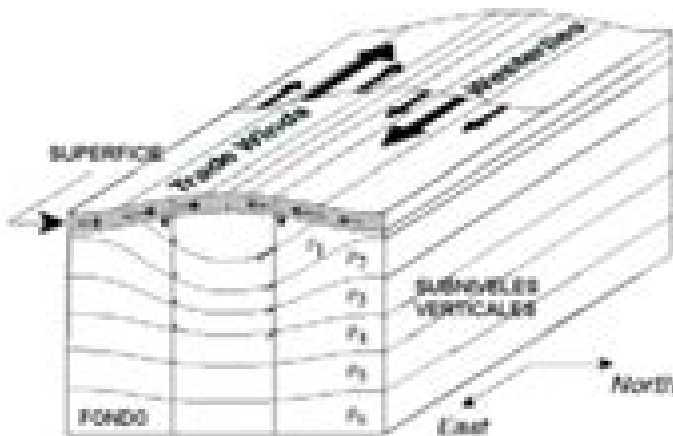


MODELAJE OCEANICO

Manual de uso del Princeton Ocean Model

Se describe la solución computacional del modelo, el procedimiento implementación operativa, archivos de entrada y salida, visualización de las simulaciones. Finalmente se da un ejemplo de ejecución del modelo en modo barotrópico con forzantes de viento y batimetría.



La velocidad vertical

$$w = W - U\sigma \frac{\partial D}{\partial x} + \frac{\partial \eta}{\partial x} - V\sigma \frac{\partial D}{\partial y} + \frac{\partial \eta}{\partial y} - \left(\sigma \frac{\partial D}{\partial x} + \frac{\partial \eta}{\partial x} \right)$$

Ecuación de continuidad o conservación de la masa

$$\frac{\partial DU}{\partial x} + \frac{\partial DV}{\partial y} + \frac{\partial DW}{\partial \sigma} + \frac{\partial \sigma}{\partial \sigma} - f D V + g D \frac{\partial \eta}{\partial x} + \frac{g D^2}{\rho} \left[\frac{\partial \sigma'}{\partial x} - \frac{\sigma}{D} \frac{\partial D}{\partial x} \frac{\partial \sigma'}{\partial x} \right] d\sigma' = \frac{\partial}{\partial \sigma} \left[\frac{K_M}{D} \frac{\partial U}{\partial \sigma} \right] + F_1$$

Ecuación de conservación del momento

Salinidad

$$\frac{\partial DU}{\partial x} + \frac{\partial DV}{\partial y} + \frac{\partial DW}{\partial \sigma} + \frac{\partial \sigma}{\partial \sigma} + f D U + g D \frac{\partial \eta}{\partial y} + \frac{g D^2}{\rho} \left[\frac{\partial \sigma'}{\partial y} - \frac{\sigma}{D} \frac{\partial D}{\partial y} \frac{\partial \sigma'}{\partial y} \right] d\sigma' = \frac{\partial}{\partial \sigma} \left[\frac{K_M}{D} \frac{\partial V}{\partial \sigma} \right] + F_2$$

Los términos de viscosidad y difusión horizontal se modifican en esta ecuación de la siguiente manera / se representan por F_1 y F_2

con σ y σ'

$$\frac{\partial DS}{\partial t} + \frac{\partial DUS}{\partial x} + \frac{\partial DVS}{\partial y} + \frac{\partial WS}{\partial \sigma} = \frac{\partial}{\partial \sigma} \left[\frac{K_M}{D} \frac{\partial S}{\partial \sigma} \right] + F_3$$

Princeton Ocean Model Manual

**Helmut Z. Baumert, John H.
Simpson, Jürgen Sündermann**



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Wave and Tidal Energy Deborah Greaves, Gregorio Iglesias, 2018-03-28 Eine umfassende Publikation zu sämtlichen Aspekten der Wellen und Gezeitenenergie Wave and Tidal Energy gibt einen ausführlichen Überblick über die Entwicklung erneuerbarer Energie aus dem Meer bezieht sich auf die neueste Forschung und Erfahrungen aus Anlagentests Das Buch verfolgt zwei Ziele zum einen vermittelt es Einsteigern in das Fachgebiet einen Überblick über die Wellen und Gezeitenenergie zum anderen ist es ein Referenzwerk für komplexere Studien und die Praxis Es vermittelt Detailwissen zu wichtigen Themen wie Ressourcencharakterisierung Technologie für Wellen und Gezeitenanlagen Stromversorgungssysteme numerische und physikalische Modellierung Umwelteffekte und Politik Zusätzlich enthält es eine aktuelle Übersicht über Entwicklungen in der ganzen Welt sowie Fallstudien zu ausgewählten Projekten Hauptmerkmale Ausführliches Referenzwerk zu allen Aspekten der interdisziplinären Fachrichtungen Wellen und Gezeitenenergie Greift auf die neuesten Forschungsergebnisse und die Erfahrung führender Experten in der numerischen und laborgestützten Modellierung zurück Gibt einen Überblick über regionale Entwicklungen in aller Welt repräsentative Projekte werden in Fallstudien vorgestellt Wave and Tidal Energy ist ein wertvolles Referenzwerk für eine breite Leserschaft von Studenten der Ingenieurwissenschaften und technischen Managern über politische Entscheidungsträger bis hin zu Studienabsolventen und Forschern

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

Ocean Modeling and Parameterization Eric P. Chassignet, Jacques Verron, 2012-12-06 The realism of large scale numerical ocean models has improved dramatically in recent years in part because modern computers permit a more faithful representation of the differential equations by their algebraic analogs Equally significant if not more so has been the improved understanding of physical processes on space and time scales smaller than those that can be represented in such models Today some of the most challenging issues remaining in ocean modeling are associated with parameterizing the effects of these high frequency small space scale processes Accurate parameterizations are especially needed in long term integrations of coarse resolution ocean models that are designed to understand the ocean variability within the climate system on seasonal to decadal time scales Traditionally parameterizations of subgrid scale high frequency

models in ocean modeling have been based on simple formulations such as the Reynolds decomposition with constant diffusivity values. Until recently, modelers were concerned with first order issues such as a correct representation of the basic features of the ocean circulation. As the numerical simulations become better and less dependent on the discretization choices, the focus is turning to the physics of the needed parameterizations and their numerical implementation. At the present time, the success of any large scale numerical simulation is directly dependent upon the choices that are made for the parameterization of various subgrid processes.

Marine Turbulence Helmut Z. Baumert, John H. Simpson, Jürgen Sündermann, 2005-04-04. This 2005 book gives a comprehensive overview of measurement techniques and theories for marine turbulence and mixing processes. It describes the processes which control the mixing of greenhouse gases, nutrients, trace elements, and hazardous substances in our oceans and shelf seas from local to planetary scales. These processes buffer climate changes and are centrally important for regional to global ecosystem dynamics. The publication also contains source codes of turbulence models and models of the upper ocean mixing layer COHERENS and GOTM and observational data sets of turbulence characteristics or corresponding proxies of waters from all over the world. These can be found at www.cambridge.org/9780521153720. Written by a team of 53 world leading experts, it represents a rich source of data and methods for students and scientists in oceanography, hydrology, limnology, and meteorology, as well as marine, naval, and civil engineers.

Numerical Models of Oceans and Oceanic Processes Lakshmi H. Kantha, Carol Anne Clayson, 2000-08-08. Oceans play a pivotal role in our weather and climate. Ocean borne commerce is vital to our increasingly close knit global community. Yet we do not fully understand the intricate details of how they function, how they interact with the atmosphere, and what the limits are to their biological productivity and their tolerance to wastes. While satellites are helping us to fill in the gaps, numerical ocean models are playing an important role in increasing our ability to comprehend oceanic processes, monitor the current state of the oceans, and to a limited extent, even predict their future state. Numerical Models of Oceans and Oceanic Processes is a survey of the current state of knowledge in this field. It brings together a discussion of salient oceanic dynamics and processes, numerical solution methods, and ocean models to provide a comprehensive treatment of the topic. Starting with elementary concepts in ocean dynamics, it deals with equatorial, mid latitude, high latitude, and coastal dynamics from the perspective of a modeler. A comprehensive and up to date chapter on tides is also included. This is followed by a discussion of different kinds of numerical ocean models and the pre and post processing requirements and techniques. Air sea and ice ocean coupled models are described, as well as data assimilation and nowcast forecasts. Comprehensive appendices on wavelet transforms and empirical orthogonal functions are also included. This comprehensive and up to date survey of the field should be of interest to oceanographers, atmospheric scientists, and climatologists. While some prior knowledge of oceans and numerical modeling is helpful, the book includes an overview of enough elementary material so that, along with its companion volume Small Scale Processes in Geophysical Flows, it should be useful to both students new to the

field and practicing professionals Comprehensive and up to date review Useful for a two semester or one semester on selected topics graduate level course Valuable reference on the topic Essential for a better understanding of weather and climate

High Resolution Numerical Modelling of the Atmosphere and Ocean Kevin Hamilton, Wataru Ohfuchi, 2007-12-25 Many key issues in dynamical meteorology and physical oceanography depend on interactions among diverse spatial scales Atmospheric examples are the role of small scale gravity waves in the zonal mean momentum balance in the middle atmosphere the role of tropical cyclones in the large scale energy and momentum balances of the troposphere or even the direction of spectral cascades of variance in the mesoscale In the ocean issues of this type include understanding the detailed physics of the very narrow boundary currents that occur along many coastlines and the role of mesoscale eddies in determining the strength of the large scale circulations and meridional ocean heat transports Truly comprehensive observational diagnostic studies of these issues are essentially impossible since they would require the global observational overage at extremely high spatial resolution An alternative is to study such issues in high resolution models that may span 3 or more orders of magnitude in terms of spatial scales There has been a great deal of progress recently on development and application of such fine resolution models This had been spurred in part by the recent availability of exceptionally powerful computers Noteworthy in this respect is the Earth Simulator in Yokohama Japan which commenced operations in 2002 and provides a peak performance of 40 Terraflops but competitive supercomputers for scientific applications are now becoming available in the USA and Europe as well There has developed in the last few years an increased understanding of the scientific value of results from very high resolution comprehensive numerical simulations This book documents the first international meeting focused specifically on high resolution atmospheric and oceanic modeling held at the Earth Simulator Center Rather than producing a standard conference proceedings it includes papers written by invited speakers at the meeting reporting on their most exciting recent results involving high resolution modeling

Information Engineering of Emergency Treatment for Marine Oil Spill Accidents Lin Mu, Lizhe Wang, Jining Yan, 2019-09-10 Oil spills are a serious marine disaster Oil spill accidents usually occur in shipping ports and offshore oil development Although most are emergent events once an oil spill occurs it will cause great harm to the marine ecological environment and bring direct harm to the economic development along the affected coast as well as to human health and public safety Information Engineering of Emergency Treatment for Marine Oil Spill Accidents analyzes the causes of these accidents introduces China's emergency response system discusses technologies such as remote sensing and monitoring of oil spill on the sea surface and oil fingerprint identification studies model prediction of marine oil spill behavior and fate and emergency treatment technologies for oil spills on the sea surface and emphatically introduces the emergency prediction and warning system for oil spills in the Bohai Sea as well as oil spill sensitive resources and emergency resource management systems Features The status quo and causes of marine oil spill pollution as well as hazards of oil spill on the sea The emergency response system for marine oil spills

Model based prediction methods of marine oil spills A series of used and developing emergency treatments of oil spill on the sea This book serves as a reference for scientific investigators who want to understand the key technologies for emergency response to marine oil spill accidents including the current level and future development trend of China in this field

Companion Encyclopedia of Geography Ian Douglas, Richard Huggett, Chris Perkins, 2018-12-12 This revised edition takes the theme of place as the unifying principle for a full account of the discipline at the beginning of the twenty first century The work comprises 64 substantial essays addressing human and physical geography and exploring their inter relations The encyclopedia does full justice to the enormous growth of social and cultural geography in recent years Leading international academics from ten countries and four continents have contributed ensuring that differing traditions in geography around the world are represented In addition to references the essays also have recommendations for further reading As with the original work the new Companion Encyclopedia of Geography provides a state of the art survey of the discipline and is an indispensable addition to the reference shelves of libraries supporting research and teaching in geography

Monthly Weather Review ,1999 *State and Evolution of the Baltic Sea, 1952-2005* Rainer Feistel, Günther Nausch, Norbert Wasmund, 2008-03-31 Based on a fifty year study conducted by the Leibniz Institute for Baltic Sea Research this book brings together a comprehensive summary of their observations and findings Written by well known experts this revealing book concentrates on long term changes in the Baltic Sea which can be extrapolated to shed light on the environmental problems of other shelf seas brackish seas and large estuaries thereby contributing to our understanding of water exchange processes eutrophication and climatic impacts at the forefront of international concern

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