

Modeling Methods for Marine Science

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



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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

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Numerical Ocean Circulation Modeling Aike Beckmann, Dale B Haidvogel, 1999-04-29 This book offers a comprehensive overview of the models and methods employed in the rapidly advancing field of numerical ocean circulation modeling For those new to the field concise reviews of the equations of oceanic motion sub grid scale parameterization and numerical approximation techniques are presented and four specific numerical models chosen to span the range of current practice are described in detail For more advanced users a suite of model test problems is developed to illustrate the differences among models and to serve as a first stage in the quantitative evaluation of future algorithms The extensive list of references makes this book a valuable text for both graduate students and postdoctoral researchers in the marine sciences and in related fields such as meteorology and climate and coupled biogeochemical modeling

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