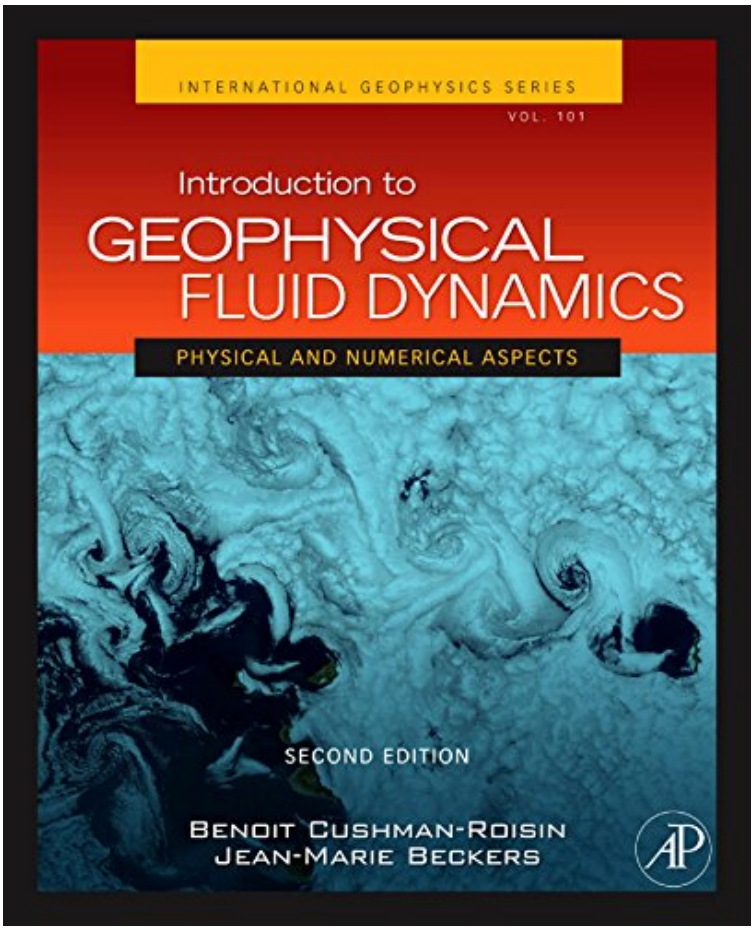
# Introduction to Geophysical Fluid Dynamics: Physical and Numerical Aspects






*Par Benoit Cushman-Roisin, Jean-Marie Beckers*
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Applied Geophysics, Introduction to Geophysical Fluid Dynamics, Second Edition "...clear, informative, and ambitious...a unique and well-respected approach to dynamic meteorology and physical oceanography...I would recommend this book to advanced undergraduates, graduate students, and others for self-study or reference."--Pure and Applied Geophysics, Introduction to Geophysical Fluid Dynamics, Second Edition "This bookis one of the best books introducing the subject matter. The physics underlying the different phenomena of interest to geophysical fluid dynamics is concisely explainedSeveral problems, questions and exercises are given at the end of each chapter. I highly recommend this to undergraduate students, however, graduate students will also benefit from the material presented."--Contemporary Physics, January 29, 2013 "Introduction to Geophysical Fluid Dynamics is one of the best books introducing the subject matter. The physics underlying the different phenomena of interest to geophysical fluid dynamics is concisely explainedI highly recommend this to undergraduate students, however, graduate students will also benefit from the material presented."--Contemporary Physics, Volume 54, Issue 1Prsentation de l'diteurThis book provides an introductory-level exploration of geophysical fluid dynamics (GFD), the principles governing air and water flows on large terrestrial scales. Physical principles are illustrated with the aid of the simplest existing models, and the computer methods are shown in juxtaposition with the equations to which they apply. It explores contemporary topics of climate dynamics and equatorial dynamics, including the Greenhouse Effect, global warming, and the El Nino Southern Oscillation.Combines both physical and numerical aspects of geophysical fluid dynamics into a single affordable volumeExplores contemporary topics such as the Greenhouse Effect, global warming and the El Nino Southern OscillationBiographical and historical notes at the ends of chapters trace the intellectual development of the fieldRecipientof the 2010 Wernaers Prize, awarded each year by the National Fund for Scientific Research of Belgium (FNR-FNRS).