

CALL FOR PAPERS

Recent advances in Numerical Ocean Modeling and Prediction

The Earth is experiencing significant changes in its climate and environment. The world's oceans play key roles in modulating and regulating climate change. Oceanographers, meteorologists and climate scientists are being called upon to make more accurate predictions about these changes and their influence on human society with increasing urgency. High resolution, accurate and verifiable numerical ocean models are essential tools for the understanding and prediction of long-term weather and climate. Modeling the ocean circulation and structure with fidelity is also critical to applications such as marine ecology and fisheries management, oil spills and pollution abatement, transportation and naval operation.

In recent years, ocean circulation, real-time nowcasts and forecasts have become of increasing importance as their accuracy and reliability have increased. Operational ocean prediction is a complex challenge and requires sophisticated and robust protocols which necessitate comprehensive validation procedures and ongoing analysis. This special issue emphasizes on the recent progress of numerical ocean modeling/prediction and the major challenging application (e.g. air-sea interaction) currently. The papers are solicited from prospective authors who are interested in the modern ocean modeling and prediction system, using the most advanced numerical techniques and at scales ranging from the coastal ocean to the global ocean.

(1) Scope

Possible topics of the special issue include, but are not limited to:

- Advanced numerical modeling techniques

- Air-sea (ocean-atmosphere) interaction
- Nowcast and forecast model skill assessment

(2) Submission Information

The deadline for submission is **August 31, 2008**. Manuscripts should be prepared according to the guidelines for contributors indicated in the website of TAO <http://tao.cgu.org.tw/index.php?center=5&level=1&left=5>. Please send manuscripts in pdf files to yhtseng@as.ntu.edu.tw. All manuscripts will be reviewed according to the standard peer-review procedure of TAO. The reviews are scheduled to return to the authors by **December 31, 2008**. Authors should submit their revised manuscripts and a letter addressing the reviews' comments and suggestions by **February 28, 2009**. The publication of the special issue in TAO is scheduled in **2009**.

(3) Guest Editors

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