CONFERENCES OF INTEREST TO UNSTRUCTURED MESH MODELLERS

European Geosciences Union — General Assembly 2007
15-20 April 2007 — Vienna, Austria
http://meetings.copernicus.org/egu2007/

Session OS16: Model development for large- and small-scale processes in the ocean

Description: Recent developments in numerical models of physical and biogeochemical processes at all scales in the ocean have been rather impressive. With increasing computer power the progress in numerical techniques is expected to continue and many methods that previously were too complex or demanding have now become a real opportunity.

In physical oceanography novel methods include the choice of hybrid vertical coordinates, unstructured or adaptive meshes, combinations of finite difference, finite volume and finite element methods, advection schemes, parameterization by statistical methods just to name a few.

Better descriptions of physical transport processes have also led to improved simulations of the cycling of biogeochemical tracers. High-resolution simulations of multiple-tracer, non-linear biological systems are now possible, and the development of new parameterisations of complex food-web structures and functional groups as well as of sub-grid scale mixing of biogeochemical tracers is well under way. Validation of these increasingly complex models is now becoming a critical issue, as are observability and controllability of the model's degrees of freedom.

We solicit contributions covering any of the abovementioned topics, including those that aim to quantify the improvements brought about by the recent model developments.

Convener: Eric Deleersnijder, Université catholique de Louvain, ericd@uclouvain.be

Co-conveners:
Pierre Lermusiaux, Harvard University, pierrel@pacific.harvard.edu
Andreas Oschlies, Institut für Meereskunde, Kiel, aoschlies@ifm-geomar.de
Jens Schröter, Alfred Wegener Institute, Bremerhaven, jschroeter@awi-bremerhaven.de

Deadline for submission of abstracts: 15 January 2007

------------------------------------------------------------

The Seventh International Workshop on Unstructured Mesh Numerical Modelling of Coastal, Shelf and Ocean Flows

Fall of 2009

The first workshop in this series was organized in November 2002 in Louvain-la-Neuve, Belgium. It is suggested that the seventh one be held at the same place, at the occasion of the end of Concerted Research Actions that presently are the main funding source of the SLIM project (Second-generation Louvain-la-Neuve Ice-ocean Model, www.climate.be/SLIM).