

Program

NORMOD meeting at Rica Hell 2007

Note that each speaker is given 20 minutes.

Tuesday, January 9th

10:00-10:30 Opening and coffee

10:30-10:40 Welcome

10:40-12:00 Session 1 Chairman: **Bjørn Gjevik**

Karina Hjelmervik, A. Ommundsen and B. Gjevik: [Model simulations of tidal currents in Tjeldsundet and Ramsundet, northern Norway.](#)

Birgit Kjoss Lyng, K. Hjelmervik and B. Gjevik: [Model simulations of storm surge currents in Tjeldsundet and Ramsundet, northern Norway.](#)

Jan-Petter Mathisen, Jarle Berntsen, Gunnar Furnes, Gunnar Mørk: [Dynamics along the Norwegian continental slope. Description of special events and modelling approach](#)

Jan-Petter Mathisen, **Jarle Berntsen**, Gunnar Furnes, Gunnar Mørk: [Dynamics along the Norwegian continental slope. Description of special events and modelling approach](#)

12:00-13:15 Lunch

13:15-15:00 Session 2 Chairman: **Jarle Berntsen**

13:15-14:00 Invited speaker: **Matthew D. Piggot**: [A new computational framework for range of scale ocean modelling based on adapting unstructured meshes](#)

14:00-15:00 **Tomas Torsvik**: [Modeling bottom shear stress for transient wave events](#)

Torunn S. Davidsen, Guttorm Alendal and Jarle Berntsen: [Secondary circulation in a 90 degree bend.](#)

Henrik Rye: [Use of hydrodynamics for decision making.](#)

15:00-15:20 Coffee

15:20-16:40 Session 3 Chairman: Gunnar Furnes

Jarle Berntsen, Jiuxing Xing and Alan M. Davies: Numerical studies of tidally forced internal waves and mixing at a sill

Normann Prankratz: High-order well-balanced finite-volume schemes for barotropic flows. Development and numerical comparisons

Jon Bergh: The influence of non-hydrostatic pressure and grid resolution on wind forced propagating internal fronts.

Helge Avlesen: SOR versus Multigrid for time dependent non hydrostatic model problems.

19:00 Dinner

Wednesday, January 10th

09:00-10:20 Session 4 Chairman: Dag Slagstad

Guttorm Alendal: Potential impacts from CO₂ handling on the oceanic environment

Lars Inge Enstad: Three dimensional dissolution and spreading of CO₂ from a CO₂ lake modelled using an advanced vertical turbulence mixing scheme

Mats Bentsen: Incremental remapping for ocean modelling.

Steinar Orre: On the use of time scale methods for diagnosing transport of passive tracers in ocean models

10:20-10:50 Coffee

10:50-12:30 Session 5 Chairman: Henrik Rye

Gisle Nondal, Richard G. J. Bellerby, Peter M. Haugan, Karen M. Assmann, Laurent Bertino, Annette Samuelsen and Ola M. Johannessen: Studying the pathways and modifications of Subantarctic Mode Water in the South Atlantic Ocean, using the HYbrid Coordinate Ocean Model and in situ measurements from NEMO subsurface drifting floats.

Bjørn Adlandsvik: Nedskalering av klimascenario for Nordsjøen

Dag Slagstad and I. Ellingsen: Effect of interannual and climatic variability on the biological production in the Barents Sea

Ingrid H. Ellingsen, T. McClimans and D. Slagstad: Modelling the physical and biological response of a stratified fjord to a submerged freshwater discharge.

12:30-13:30 Lunch

13:30-15:00 Discussions