

JONSMOD 2014

RBINS, Brussels

12 – 14 May 2014

Programme

Monday 12 May

08:30 – 09:15 Registration

09:15 – 09:30 Welcome

Session I – Chair: Patrick Luyten

09:30 – 10:00 **Lars Jonasson**

Next generation pan-European coupled Climate-Ocean Model

10:00 – 10:30 **Torleif Lothe and Rachel Furner**

Numerical Modelling of Sea Bottom Temperatures in the North Sea

10:30 – 11:00 *Break*

11:00 – 11:30 **Pierre Garreau, Valérie Garner, and Gaelle Herbert**

Numerical modeling of the North Western Mediterranean Sea

11:30 – 12:00 **Jørgen Bendtsen, John Mortensen and Søren Rysgaard**

Model simulations of seasonal surface layer dynamics and sensitivity to runoff in a high Arctic fjord (74°N)

12:00 – 12:30 **Erik De Goede and Reimer de Graaff**

Modelling of ice growth and transport on a regional scale, with application to the North Sea and to lakes

12:30 – 14:00 *Lunch*

Session II – Chair: Pierre Garreau

14:00 – 14:30 **Geneviève Lacroix, Dimitry Van der Zande, Léo Barbut and Filip.A.M. Volckaert**

Impact of projected wind and temperature changes on larval recruitment of sole in the North Sea

14:30 – 15:00 **Olivia G rigny, S. Coudray, P.-A. Bisgambiglia, C. Lapucci, D. Le Berre and F. Galgani**

Systemic approach in a Marine Protected Area (Strait of Bonifacio – South of Corsica). Modeling and hydrodynamics for applied research (larval dispersion, marine litter, chlorophyll)

15:00 – 15:30 **Eric Deleersnijder, Anne Mouchet, Anouk de Brauwere, Eric Delhez and Emmanuel Hanert**

The concept of partial age, a generalisation of the notion of age: theory, idealised illustrations and realistic applications

15:30 – 16:00 **Tomas Torsvik**

Eddy diffusivity in the Gulf of Finland based on drifter data and numerical modelling

16:30 – 17:00 *Break*

16:30 – 17:00 **Val rie Duli re, Nathalie Gypens, Xavier Desmit and Genevi ve Lacroix**

Tracking nutrients in the Southern North Sea

17:00 – 17:30 **Christopher Thomas**

Biophysical modelling to study multi-scale connectivity in the Great Barrier Reef

17:30 – 18:00 **Mikhail Karpytchev**

Modeling the amplification of the AD365 tsunami along the Alexandria coast

18:30 – 20:00 *Icebreaker*

Tuesday 13 May

Session III – Chair: Jørgen Bendtsen

09:00 – 09:30 **Valentin Vallaëys, Y. Le Bars, E. Deleersnijder and E. Hanert**

Preliminary results of an unstructured mesh model of the Congo River, estuary and ROFI

09:30 – 10:00 **Karina Hjelmervik**

Refined ocean models for the Oslofjord systems

10:00 – 10:30 **Kevin Delecluyse**

A strategy for calibrating the roughness value of tidal floods and tidal marches in a three-dimensional tidal model for the Scheldt estuary

10:30 – 11:00 *Break*

11:00 – 11:30 **Stefano Taddei**

Short scale dynamics of contamination events in coastal waters: observations and models for the Costa Concordia site

11:30 – 12:00 **Christèle Chevalier**

Impact of cross-reef fluxes on the Ouano lagoon circulation.

12:00 – 12:30 **Bartolomeo Doronzo**

Extensive analysis of potentialities and limitations of a Maximum Cross-Correlation technique for surface circulation by using realistic ocean model simulations

12:30 – 14:00 *Lunch*

Session IV – Chair: Erik De Goede

14:00 – 14:30 **Arnold Van Rooijen, Arthur Van Dam, Gerben de Boer, Jebbe van der Werf and Herman Kernkamp**

Numerical modelling of flow in intertidal basins using an unstructured grid; application of D-Flow Flexible Mesh to the Dutch Wadden Sea

14:30 – 15:00 **Firmijn Zijl, Julius Sumihar and Martin Verlaan**

Application of data assimilation for improved operational water-level forecasting on the Northwest European Shelf and North Sea

15:00 – 15:30 **Olivier Gourgue, Margaret Chen, Rosalia Delgado, Eshan Sarhadi, George Schramkowski and Joris Vanlede**

An unstructured grid model for the Belgian continental shelf and the Scheldt estuary

15:30 – 16:00 **Thorger Brüning, Frank Janssen, Eckhard Kleine, Hartmut Komo, Silvia Massmann, Inge Menzenhauer-Schuhmacher and Stephan Dick**

Status of BSH's operational ocean circulation forecasting model for German coastal waters

16:00 – 16:30 *Break*

16:30 – 17:00 **Martin Verlaan, Herman Kernkamp and Andrea Lalic**

A global tide and storm-surge model

17:00 – 17:30 **Herman Kernkamp, Sander van der Pijl, Arthur Van Dam, Wim van Balen, Willem Ottevanger and Guus Stelling**

One- two- and three-dimensional hydrodynamic modelling with F-Flow Flexible Mesh

17:30 – 18:00 **Joana van Nieuwkoop, Peter Baas, Sofia Caires and Jacco Groeneweg**

On the consistency of the drag between air and water in meteorological, hydrodynamic and wave models

19:00 *Conference Dinner*

Wednesday 14 May

Session V – Chair: Eric Deleersnijder

09:00 – 09:30 **Mostafa Bakhoday Paskyabi**

Wave-current-turbulence interaction near the sea surface

09:30 – 10:00 **Chien Pham Van**

Simulations of suspended sediment transport in the continuum river-delta-coastal system, East Kalimantan, Indonesia

10:00 – 10:30 **Héloïse Müller**

Storm Impact on a French coastal dune system: morphodynamic modeling using X-beach

10:30 – 11:00 *Break*

11:00 – 11:30 **Qilong Bi and Erik Toorman**

A New Sediment Transport Model for Western Scheldt

11:30 – 12:00 **Philippe Delandmeter**

A 3D baroclinic model of the Burdekin River Plume

12:00 – 12:15 Closing remarks

12:30 – 14:00 *Lunch*