

Workshop on “Coastal Ocean Modelling (COMOD) 2018”

organised by the KDM Working Group on “Coastal Ocean Modelling”

<http://www.deutsche-meeresforschung.de/en/coastalmodelling>

THURSDAY, 22.02.2018

12:00 h: Lunch Buffet

13:00 h: Introduction: Goals of the German Coastal Ocean Modelling Community
(Hans Burchard & Corinna Schrum)

13:25 h: Keynote lecture: Florian Lemarié, Laboratoire Jean Kuntzmann, France
“Recent developments around the CROCO initiative for complex regional to coastal modeling”

SESSION ON ESTUARINE AND COASTAL OCEAN MODELLING

(Chair: Stefan Schimmels, FZK, Hannover)

14:20 h: Key Note to Estuarine and Coastal Ocean Modelling
Christian Winter, MARUM, Bremen
“Estuarine and Coastal Ocean Modelling”

14:50 h: Research Talk I - Dreier & Fröhle (TU-HH):
Operational wave forecast in the German Bight as part of a sensor- and risk based early warning system

15:10 h: Research Talk II - Dissanayake (Uni Konstanz):
3D Modelling of nearshore morphodynamics in a topographically challenging environment

15:30 h: Research Talk III - Zhang et al. (HZG):
Integrating biotic-abiotic interactions at the sediment-water interface in coastal ocean models – what can we do?

15:50 h – 16:30 h: Coffee break

SESSION ON SHELF SEA MODELLING

(Chair: Ina Lorkowski, BSH, Hamburg)

16:30 h: Key Note to Shelf Sea Modelling
Ulf Gräwe, IOW, Rostock
“Shelf Sea Modelling – where are we and where to go?”

17:00 h: Research Talk I - Brüning et al. (BSH):
Innovations in BSH’s operational model system – technical status, new products and outlook

17:20 h: Research Talk II - Kuznezov et al (HZG):

FESOM-C: coastal dynamics on mixed unstructured meshes

17:40 h: Research Talk III - Cahill et al. (FU Berlin):

The impact of water constituents on radiative heat transfer in the open ocean and shelf seas

18:00 h-19:30 h: POSTER SESSION with Beers and Snacks

(Chair: Thomas Pohlmann, IfM, Uni Hamburg)

20:00 h: Joint Dinner (individual payment) at

"Balutschistan", Grindelallee 91, 20146 Hamburg

FRIDAY, 23.02.2018

SESSION ON COASTAL OCEAN MODELLING IN GERMANY: PERSPECTIVES AND LIMITATIONS

(Chair: Jörg-Olaf Wolff, ICBM, Oldenburg)

09:00 h: Key Note to Coastal Ocean Modelling in Germany: Perspectives and Limitations

Frank Kösters & Günter Lang, BAW, Hamburg

09:20 h – 10:00 h: General Discussion

10:00 h – 10:30 h: Coffee Break

SESSION ON REGIONAL CLIMATE MODELLING AND COUPLED MODELLING

(Chair: Thomas Pohlmann, University of Hamburg)

10:30 h: Key Note to Regional Climate Modelling and Coupled Modelling

Joanna Staneva, HZG, Geesthacht

"North Sea-Baltic Sea regional models: coupling of ocean and atmosphere a through a dynamic wave interface"

11:00 h: Research Talk I - Mathis et al. (MPI-MET):

The future regime of Atlantic nutrient supply to the Northwest European Shelf

11:20 h: Research Talk II - Lehmann & Höflich (GEOMAR):

An Earth System Model with reduced complexity of the entire Baltic Sea

11:40 h: Research Talk III - Wirtz & Lemmen (HZG):

Biological controls of primary production in the coastal ocean revealed by a new model and data system

12:00 h – 13:00 h: Thematic Discussion on Key Questions (Karen Wiltshire, AWI, List/Sylt)