

Ems-Scheldt Workshop 2018

Delmenhorst, February 8 – 9, 2018

Organizers:

Dr. Thomas Badewien

University of Oldenburg, ICBM, Germany

Dr. Henk Schuttelaars

Delft University of Technology, The Netherlands

Ir. Yves Plancke

Flanders Hydraulics Research, Antwerp, Belgium

Thursday, February 8, 2018

11.00 Arrival, Tea/Coffee

11.55 D. Meyerdierks: Welcome address
Opening

Session 1

12.00 B. Brinkman:
An ecosystem model for the Ems-Dollard

12.30 A. Nnafie, B. De Maerschalck:
Morphodynamic impact of sea level rise on the western Scheldt estuary and its mouth region: Insights from an idealized modeling study

13.00 Lunch

Session 2

14.00 D. Oberrecht, A. Wurpts:
Modeling Fluid Mud in the Ems estuary: Numerical Validation by detailed tidal cycle measurements

14.20 G. Schramkowski, R. Brouwer, Y. Dijkstra, H. Schuttelaars:
The effect of hindered settling on the occurrence of high sediment concentrations

14.40 Y. Dijkstra, H. Schuttelaars, G. Schramkowski, R. Brouwer:
An idealized modelling study into the transition of the Ems River Estuary to a hyperturbid state

15.00 T. van Kessel, M. de Lucas:
Mud dynamics and hyperturbidity in the Scheldt: linking models, idealised models and reality

15.30 Tea/Coffee break

Session 3

16.00 H.M. Schuttelaars, X. Wie:
Three-dimensional sediment dynamics in tidally dominated estuaries: influence of time-dependent stratification.

16.20 J. Pein, A. Valle-Levinson, E. V. Stanev:
Effect of channel curvature on the salinity intrusion in idealised and real estuaries

16.40 F. Van de Meutter, J. Speybroeck, J. Vanoverbeke, B. Vandevoorde, N. De Regge, O. Bezdenjesnji, A. Van Braeckel, E. Van den Bergh, G. Van Ryckegem:
Understanding macrobenthic abundances in the oligohaline section of the Scheldt river after the trophic shift: preliminary results of a large in-situ enclosure experiment.

17.00 V. N. de Jonge, U. Schüchel:
There is life in troubled waters, but ...

- 17.30 Integral discussion and summary of day 1
V. de Jonge: *Data concerning sediment pathways in the Ems-Dollard system*
- 18.00 Dinner at HWK

Friday, February 9, 2018

- 8.30 Arrival

Session 4

- 9.00 B. Jacob:
Hydrodynamics and sediments in the estuaries and the coastal zone of the German Bight.
- 9.20 L. Perk, A. Nnafie:
Cyclic behavior of a shoal-channel system in the western Scheldt estuary
- 9.40 T.M. Hepkema, H.E. de Swart, A. Zagaris, M. Duran-Matute:
Sensitivity of tidal characteristics in channel systems to momentum dissipation on tidal flats
- 10.00 T. Lanckriet, J. van der Werf, B. Huisman, R. Schrijvershof, G. Leyssen, G. Van Holland, D. Depreiter:
Morphological response of sediment disposal in the deep section at Hansweert, Western Scheldt.
- 10.30 Tea/Coffee break

Session 5

- 11.00 B. van Maren:
Predicting the effect of mitigating measures on morphology and turbidity in the Ems Estuary: the importance of long-term equilibrium.
- 11.20 G. Van Holland, G. Leyssen, T. Lanckriet, K. Delecluyse, D. Depreiter:
Multivariate analysis of the impact of dredging activities on suspended sediment concentrations in the Scheldt Estuary using the OMES-database
- 11.40 Z. B. Wang:
The Yangtze Delta, a delta in fast transition
- 12.00 M. J. Baptist:
Ecological perspective for the hydromorphological improvement Ems-Dollard 2050; Assessment of the ecological targets for the Ems-Dollard for six hydromorphological measure directions

12.30 Lunch

13.00 Integral summary of the workshop and ways to go ahead

B. van Maren: *Measuring campaign – River Ems 2018 and 2019*

N.N.: *The measurements being done in the Scheldt system/measurements available*

15.30 End of the workshop