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## Faunal influence on sediment stability in intertidal mudflats

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## Curriculum vitae

Eric de Deckere was born on July 3, 1968 in Hulst, the Netherlands. He followed the secondary school (V.W.O.) at the “Jansenius scholengemeenschap” in Hulst, where he graduated in 1986. Subsequently he started his study Environmental Science, orientation Integral Water Management at the Wageningen Agricultural University. As part of this study he conducted research projects at the departments of Water Quality and Aquatic Ecology. His practical training period was fulfilled in Australia at the CSIRO. From 1992-1994 he worked at the Institute for Inland Water Management and Waste Water Management, preparing a manual for the treatment of eutrophication in lakes. He started his Ph.D. in 1994 at the Netherlands Institute of Ecology, Centre for Estuarine and Coastal Ecology. Since 2000 Eric is working at the University of Antwerp, department Biology, focusing on sediment quality assessment. He is involved in the European SedNet project and one of the Editors-in-Chief of the Journal of Soils and Sediments.

## List of Publications

### Articles

- Van Donk, E., E. de Deckere, J.P.G. Klein Breteler & J.T. Meulemans, 1994. Herbivory by waterfowl and fish on macrophytes in a biomanipulated lake: effects on long-term recovery. *Verh. Internat. Verein. Limnol.*, 25: 2139-2143.
- Kornman, B.A. & E.M.G.T. de Deckere, 1998. Temporal variation in sediment erodibility and suspended sediment dynamics in the Dollard estuary. In: Black, K.S., Paterson, D.M. & Cramp, A. (eds) *Sedimentary Processes in the intertidal zone*. Geological Society, London, Special Publications, 139, 231-241.
- de Deckere, E.M.G.T., J. van de Koppel & C.H.R. Heip, 2000. Increasing suspended solids concentration due to *Corophium volutator*. *Hydrobiologia*, 426: 37-42.
- de Brouwer, J.F.C., S. Bjelic, E.M.G.T. de Deckere & L.J. Stal, 2000. Interplay between biology and sedimentology in a mudflat (Biezelingse Ham, Westerschelde, The Netherlands). *Continental Shelf Research*, 20: 1159-1177.
- Paterson, D.M., T.J. Tolhurst, J.A. Kelly, C. Honeywill, E.M.G.T. de Deckere, V. Huet, S.A. Shayler, K.S. Black, J.F.C. de Brouwer & I. Davidson, 2000. Variations in sediment properties, Skeffling mudflat, Humber estuary, UK. *Continental Shelf Research*, 20: 1373-1396.
- Moodley, L., H.T.S. Boschker, J.J. Middelburg, R. Pel, P.M.J. Herman, E.M.G.T. de Deckere & C.H.R. Heip, 2000. The ecological significance of benthic Foraminifera: <sup>13</sup>C labeling experiments. *Marine Ecology Progress Series*, 202: 289-295.
- Staats, N., E.M.G.T. de Deckere, B. de Winder & L.J. Stal, 2001. Spatial patterns of benthic diatoms, carbohydrates and silt on a tidal flat in the Ems-Dollard. *Hydrobiologia*, 448: 107-115.
- de Deckere, E.M.G.T., T.J. Tolhurst & J.F.C. de Brouwer, 2001. Destabilisation of cohesive intertidal sediments by infauna. *Estuarine, Coastal and Shelf Science*. 53: 665-669.

- Staats, N., E.M.G.T. de Deckere, B. Kornman, W. van der Lee, R. Termaat, J. Terwindt & B. de Winder, 2001. Observations on suspended particulate matter (SPM) and microalgae in the Dollard estuary, The Netherlands; importance of late winter ice cover of the intertidal mudflats. *Estuarine Coastal and Shelf Science*, 53: 297-306.
- de Deckere, E.M.G.T., B. Kornman, N. Staats, R. Termaat, B. de Winder, L. Stal & C. Heip, 2002. Temporal dynamics of microphytobenthos, meiobenthos and macrobenthos in the Dollard estuary. In: Winterwerp, J.C. & Kranenburg, C. *Proceedings INTERCOH-2000*. Elsevier, Coastal and Estuarine Fine Sediment Processes, Elsevier, Amsterdam, 429-440.
- de Deckere, E.M.G.T., W. Beyen, D. Van Pelt, B. Veraart, M. Florus & P. Meire, 2002. Biological assessment of sediments: a comparison. In: Pelletti, M., A. Porta & R.E. Hincee (eds). *Characterization of contaminated sediments. Proceedings of the First International Conference on Remediation of Contaminated Sediments, 10-12 October 2001, Venice*. Battelle, Geneve, 33-44.
- de Brouwer, J., E.M.G.T. de Deckere & L.J. Stal. Distribution of extracellular carbohydrates in three intertidal mudflats in West-Europe. *Estuarine Coastal and Shelf Science*, in press
- de Deckere, E.M.G.T., P. van der Wal & A. Sandee. A flume study to the effect of *Corophium volutator* on the sediment stability. Submitted to *Journal of Experimental Marine Biology and Ecology*.

### **Reports**

- de Deckere, E.M.G.T., R.E. Rijdsdijk, P.C.M. Boers, D.T. van der Molen, 1996. Handleiding Bestrijding Eutrofiëring; Effecten van de reductie van de fosfaatbelasting in ondiepe plassen en meren. (Manual for treatment of eutrophication, The effects of the reduction of the phosphorus load on lakes)(in Dutch). Lelystad, RIZA nota 96.049E, 97 p.
- de Deckere, E., W. De Cooman, M. Florus & M. P. Devroede-Vander Linden, 2000. Karakterisatie van de bodems van de Vlaamse bevaarbare waterlopen. Ministerie van de Vlaamse Gemeenschap, AMINAL, afdeling Water, Brussel.
- De Deckere, E.M.G.T., W. De Cooman, M. Florus & P. Meire, 2000. Karakterisatie van de bodems van de Vlaamse waterlopen. Campagne II, bevaarbare waterlopen. AMINAL, afdeling water, Brussel.
- De Deckere, E.M.G.T., W. De Cooman, M. Florus & M.P. Devroede-Vander Linden, 2000. Handboek voor de karakterisatie van de Vlaamse waterbodems volgens Triade. Derde herziene versie, AMINAL, afdeling water, Brussel.
- de Deckere, E.M.G.T., W. Beyen, D. Van Pelt, B. Veraart & P. Meire, 2001. Biological assessment of sediments: a comparison. UIA, Antwerpen.
- de Deckere, E., W. Beyen, P. Meire, V. Van Wesenbeeck & M. Florus, 2002. Methods for sediment quality assessment. LIFE-project on contaminated sediments, final report task 2 (March 2002), UIA, Antwerpen.
- de Deckere, E., R. Blust, B. Cornelis, P. Herman, C. Jansen, P. Meire, S. Van Regenmortel, M. Starink, E. Steen Redeker & T. Ysebaert, 2002. Ecologie en ecotoxicologie van natuurgericht waterbeheer: implicaties van verontreiniging op natuurdoelstellingen en ontwikkeling in overstromingsgebieden. Vlaams Impulsprogramma Natuurontwikkeling 99/05, Universiteit van Antwerpen, Antwerpen.