

International (refereed) journals

- 2016 Duin O.J.M. van, S.J.M.H. Hulscher, J.S. Ribberink, **C.M. Dohmen-Janssen**. Modeling of Spatial Lag in Bed-Load Transport Processes and Its Effect on Dune Morphology. *J. of Hydr. Eng.* DOI: 10.1061/(ASCE)HY.1943-7900.0001254.
- 2016 Willemsen, P.W.J.M., E.M. Horstman, B.W. Borsje, D.A. Friess, **C.M. Dohmen-Janssen**. Sensitivity of the sediment trapping capacity of an estuarine mangrove forest. *Geomorphology* 273, 189-201. DOI: 10.1016/j.geomorph.2016.07.038
- 2015 Horstman, E.M., **C.M. Dohmen-Janssen**, T.J. Bouma and S.J.M.H. Hulscher. Tidal-scale flow routing and sedimentation in mangrove forests: combining field data and numerical modelling. *Geomorphology* 228, 244-262, doi:10.1016/j.geomorph.2014.08.011.
- 2014 Horstman, E.M., **C.M. Dohmen-Janssen**, P.M.F. Narra, N.J.F. van den Berg, M. Siemerink and S.J.M.H. Hulscher. Wave attenuation in mangroves: a quantitative approach to field observations. *Coastal Engineering*, 94, 47-62, DOI: 10.1016/j.coastaleng.2014.08.005.2014
- 2014 Warmink, J.J., **Dohmen-Janssen, C.M.**, J. Lansink, S. Naqshband, O.J.M. van Duin, A.J. Paarlberg, A.P.P. Termes and S.J.M.H. Hulscher. Understanding river dune splitting through flume experiments and analysis of a dune evolution model. *Earth Surface Processes and Landforms*, DOI: 10.1002/esp.3529.
- 2013 Horstman, E.M., **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher. Flow routing in mangrove forests: A field study in Trang province, Thailand. *Continental Shelf Research*, 71, 52-67. DOI: 10.1016/j.csr.2013.10.002.
- 2010 Paarlberg, A.J., **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher, A.P.P. Termes and R. Schielen. Modelling the effect of time-dependent river dune evolution on bed roughness and stage. *Earth Surface Processes and Landforms*, Vol. 35, Issue, 15, pp. 1854-1866, DOI: 10.1002/esp.2074.
- 2010 Meilanda, E., **C.M. Dohmen-Janssen**, B.H.P. Maathuis, S.J.M.H. Hulscher, J.P.M. Mulder. Short-term morphological responses and developments of Banda Aceh coast, Sumatra Island, Indonesia after the tsunami on 26 December 2004. *Marine Geology* 275 (2010) 96-109.
- 2009 Paarlberg, A.J, **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher and A.P.P. Termes. Modelling river dune evolution using a parameterization of flow separation. *J. Geophys. Res., Earth Surface*, Vol. 114, F01014, doi:10.1029/2007JF000910.
- 2007 Paarlberg, A.J., **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher and P.Termes. A parameterization of flow separation over subaqueous dunes. *Water Resour. Res.*, 43, W12417, doi:10.1029/2006WR005425.
- 2006 Dong, X.H., **C.M. Dohmen-Janssen**, M.J. Booij and S.J.M.H. Hulscher. Effect of flow forecasting quality on benefits of reservoir operation – a case study for the Geheyan reservoir (China). *Hydrology and Earth System Sciences Discussions*, Vol.3, No. 6, pp. 3771-3814, SRef-ID: 1812-2116/hessd/2006-3-3771.
- 2005 Hulscher, S.J.M.H. and **C.M. Dohmen-Janssen**. Introduction to special section on marine sand wave and river dune dynamics. *J. Geophys. Res., Earth Surface*.Vol. 110, No. F4, F04S01 doi:10.1029/2005JF000404.
- 2005 Dong, X.H., **C.M. Dohmen-Janssen** and M.J. Booij. Appropriate spatial sampling of rainfall for flow simulation, *Hydrological Sciences Journal*, Vol. 50, No.2, pp. 279-298.
- 2005 **Dohmen-Janssen, C.M.** and D.M. Hanes. Sheet flow and suspended sediment due to wave groups in a large wave flume. *Continental Shelf Research*, Vol. 25, Issue 3, pp. 333-347, doi:10.1016/j.csr.2004.10.009.
- 2005 Haitel, L. and **C.M. Dohmen-Janssen**. Climate change and navigation. The effects of Rhine river dunes on channel depth. *Invited contribution to Hydro International*, Vol. 9, No. 6, pp. 31-33.
- 2003 Guizien, K., **C.M. Dohmen-Janssen** and G.Vittori. 1DV bottom boundary layer modelling under combined wave and current: suspension ejection events and phase lag effects. *J. Geophys. Res.*, Vol. 108 No. C1, 10.1029/2001JC001292.
- 2002 **Dohmen-Janssen, C.M.** and D.M. Hanes. Sheet flow dynamics under monochromatic nonbreaking waves. *J. of Geoph. Res.*, Vol. 107, No. C10, 10.1029/2001JC001045.
- 2002 **Dohmen-Janssen, C.M.**, D.F. Kroekenstoel, W.N Hassan, J.S. Ribberink. Phase-lags in oscillatory sheet flow: experiments and bed load modelling. *Coastal Engineering*, Vol. 46, No.1, pp. 61-87
- 2001 **Dohmen-Janssen, C.M.**, W.N. Hassan, J.S. Ribberink. Mobile-bed effects in oscillatory sheet flow. *J. of Geoph. Res*, Vol. 106, No. C11, pp. 27,103-27,115.
- 2001 McLean, S.R., J.S. Ribberink, **C.M. Dohmen-Janssen**, W.N. Hassan. Sand Transport in Oscillatory Sheet Flow with Mean Current. *J. of Waterw, Port, Coastal and Ocean Eng.*, ASCE, Vol. 127, No. 3, pp.141-151.

National (refereed) journals

- 2007 **Dohmen-Janssen, C.M** en A.J. Paarlberg. Morfodynamisch model voor ontwikkeling van rivierduinen. *MaCHazine*, Vol. 12, No. 1, pp. 24-25 (in Dutch).
- 2007 R.M. van Dam, **C.M. Dohmen-Janssen** en S.C. van der Biezen. Bergen aan Zee heeft baat bij extra kustbescherming. *Land + Water*, Vol. 47, No.10/07, pp. 20-21 (in Dutch).
- 2007 **Dohmen-Janssen, C.M** en A.J. Paarlberg. Modelleren van rivierduinen. *ConcepTueel*, Vol. 16, No. 4, pp. 6-9 (in Dutch).
- 2006 **Dohmen-Janssen, C.M.** Vakantiecursus: Hoe ontstaan tsunami's? *Nieuw Archief voor Wiskunde*, 5/7, No. 4, Uitgave van het Koninklijk Wiskundig Genootschap, pp. 265-273 (in Dutch).
- 2005 **Dohmen-Janssen, C.M.**, J.A. Battjes and F.H. Goutbeek. Hoe ontstaan tsunami's en waarom? *Nederlands Tijdschrift voor Natuurkunde*, Vol. 71, No. 12, pp. 380-385, invited contribution (in Dutch).
- 2005 **Dohmen-Janssen, C. M.**, Battjes, J. A., & Goutbeek, F. Tsunami's; over het hoe en waarom en de gevolgen. *ConcepTueel*, 2005(5), 16-19.
- 2004 Haitel, L. and **C.M. Dohmen-Janssen**. Effecten van klimaatverandering op bodemvormen in de Rijn. *H₂O – Tijdschrift voor watervoorziening en waterbeheer*, Vol. 37, No. 22, pp. 27-29 (in Dutch).
- 2003 Rossen, W. and **C.M. Dohmen-Janssen**. Rivierafvoer naar de Zeeuwse delta: herstel van een estuarium? *H₂O – Tijdschrift voor watervoorziening en waterbeheer*, Vol. 36, No. 16, pp. 19-21 (in Dutch).

- 2003 Rossen, W. en **C.M. Dohmen-Janssen**. Rivierafvoer naar de Zeeuwse Delta. *Conceptueel 12 (5)*, 36-39 (in Dutch).

Books, or contributions to books

- 2007 **Dohmen-Janssen, C.M.** and S.J.M.H. Hulscher (Eds). River, Coastal and Estuarine Morphodynamics: RCEM 2007. *Taylor & Francis Group, London, ISBN 978-0-415-45363-9, two volumes, 1271 pp.*
- 2006 **Dohmen-Janssen, C.M.** Hoe ontstaan tsunami's en waarom? In: 'Actuele Wiskunde', CWI Syllabus 56, *Vakantiecursus Wiskunde, Managing Editors: Gerards and Klop, Executive Ed: Bakker, Stichting centrum voor Wiskunde en Informatica, Amsterdam, The Netherlands, ISBN 90 6196 537 3 (in Dutch)*
- 2001 Ribberink, J.S., **C.M. Dohmen-Janssen**, D.M. Hanes, S.R. McLean and C.E. Vincent. Wave-induced sand transport processes in a large scale wave channel. In: *Coastal Zone of Seas, Lakes and Man-Made Lakes, Chichagov (Ed.), Russian Ac. of Sciences, Siberian Branch, Inst. for Water and Env. problems, Novosibirsk, Nauka, pp. 139-154 (in Russian).*
- 2001 Vincent, C.E., D.M. Hanes, **C.M. Dohmen-Janssen**, G. Klopman, S.R. McLean, C. Obhrai and Ribberink, J.S. The suspension of sand in a large wave flume (SISTEX99). In: *Coastal Zone of Seas, Lakes and Man-Made Lakes, V.P. Chichagov (Ed.), Russian Academy of Sciences, Siberian Branch, Inst. for Water and Environmental problems, Novosibirsk, "Nauka", pp. 155-165 (in Russian).*
- 2001 **Dohmen-Janssen, C.M.**, W.N. Hassan, J.S. Ribberink. Mathematical modelling of sand transport in the sheet flow regime using a mixing-length model. In: *SEDMOC: Sediment transport modelling in marine coastal environments, L.C. van Rijn, A.G. Davies, J.J. van de Graaff and J.S. Ribberink (Eds.), Delft Hydraulics, The Netherlands.*

Other

Invited presentations

- 2013 **Dohmen-Janssen, C.M.** Biophysical interactions in Mangroves. *Keynote lecture at Aceh International Symposium on Civil Engineering (AISCE) "Infrastructure Planning and Management for Sustainable Development", 19-20 September 2013, University of Syiah Kuala, Banda Aceh, Indonesia.*
- 2013 **Dohmen-Janssen, C.M.** Civil Engineering and the Twente Educational Model. *Invited lecture, 17 September 2013, University of Syiah Kuala, Banda Aceh, Sumatra, Indonesia.*
- 2008 **Dohmen-Janssen, C.M.** Kustverdediging vanuit een lange-termijn perspectief (200 jaar). *De Nationale Waterconferentie, 24 en 25 september 2008, Kurhaus, Scheveningen.*
- 2006 **Dohmen-Janssen, C.M.** Tsunami impact on the coast of Banda Aceh and resulting morphological evolution. *NDNS+ workshop (Non-linear Dynamics of Natural Systems) 'Mathematics and Earth Sciences', Nov/Dec 2006, Groningen.*
- 2006 **Dohmen-Janssen, C.M.** Hoe ontstaan tsunami's en waarom? *Invited presentation at CWI Vakantiecursus 'Actuele Wiskunde', organized by Centrum voor Wiskunde en Informatica (CWI), Amsterdam. Eindhoven, 25/08/2006, Amsterdam, 02/09/2006.*

Conference Proceedings

- 2013 Duin, O.J.M. van, J.S. Ribberink, **C.M. Dohmen-Janssen** and S.J.M.H. Hulscher. Modelling sediment pick-up and deposition in a dune model. In: *MARID 2013, 4th International Conference on Marine and River Dune Dynamics. Royal Belgian Institute of Natural Sciences and SHOM., 15-04-2013 - 17-04-2013, Oostende, Belgium (pp. 89 - 96).*
- 2013 Horstman, E.M. and **C.M. Dohmen-Janssen**. Bio-physical interactions in mangroves. In: *E. Meilianda et al. (Eds.), Proceedings of the Aceh International Symposium on Civil Engineering (AISCE), 19-20 September 2013, University of Syiah Kuala, Banda Aceh.*
- 2013 Horstman, E.M., **C.M. Dohmen-Janssen** and S.J.M.H. Hulscher. Modeling tidal dynamics in a mangrove creek catchment in Delft3D. In: *P. Bonneton & T. Garlan (Eds.), Extended abstracts of Coastal Dynamics 2013, 24-28 June 2013, Arcachon, France, pp. 833-844.*
- 2013 Warmink, J.J., R.M.J. Schielen, **C.M. Dohmen-Janssen**. Evolution of bed from height and length during a discharge wave. In: *MARID 2013, 4th International Conference on Marine and River Dune Dynamics. Royal Belgian Institute of Natural Sciences and SHOM., 15-04-2013 - 17-04-2013, Oostende, Belgium (pp. 323 - 329).*
- 2013 Warmink, J.J., R.M.J. Schielen, **C.M. Dohmen-Janssen**. Prediction of river bed from dynamics under gradually varying discharge. In: *River, Coastal and Estuarine Morphodynamics, 09-06-2013 - 13-06-2013, Cantabria, Spain (pp. 112 - 112).*
- 2012 Horstman, E., **Dohmen-Janssen, C.**, Narra, P., Van den Berg, N., Siemerink, M., Balke, T., Bouma, T., Hulscher, S. Wave attenuation in mangrove forests; field data obtained in Trang, Thailand. In: *McKee-Smith, J., Lynett, P. (Eds.), Coastal Engineering Proceedings, 33, doi:10.9753/icce.v33.waves.40.*
- 2012 Horstman, E.M., **C.M. Dohmen-Janssen**, T.J. Bouma. and S.J.M.H. Hulscher. Flow routing in mangrove forests: field data obtained in Trang, Thailand. In: *W.M. Kranenburg, E.M. Horstman and K.M. Wijnberg (Eds.), NCK-days 2012: Crossing borders in coastal research. Jubilee conference proceedings 20th NCK-days, 13-16 March 2012, University of Twente, Enschede, The Netherlands, pp. 147-151. DOI: 10.3990/2.186.*
- 2012 Naqshband, S., F. Sterlini, J.S. Ribberink, **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher, D. Hurther. Simultaneous, co-located measurements of flow velocity and sediment concentration over mobile dunes. *Proceedings River Flow, Costa Rica.*
- 2012 Van Duin, O.J.M., J.S. Ribberink, **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher. Particle step length variation along river dunes. *Proceedings River Flow, Costa Rica.*
- 2012 Warmink, J.J., **C.M. Dohmen-Janssen**, R.M.J. Schielen. Bed form evolution under varying discharges, flume versus field. *Proceedings River Flow, Costa Rica.*

- 2011 Bouma, T.J. P.L.A. Erfteemeijer, T. Balke, E.M. Horstman, S.M. Yaakub, J.T.I. Tanzil, D.A. Friess, D. Galli, **C.M. Dohmen-Janssen**, M.C.J.L. Jeuken, P.A. Todd, E.L. Webb. Sediment and Ecology: how to minimize impacts of dredging and create opportunities for restoration on tropical coasts? Dredging Days 2011, Rotterdam, the Netherlands.
- 2011 Horstman, E.M., M. Siemerink, T. Balke, **C.M. Dohmen-Janssen**, T.J. Bouma, S.J.M.H. Hulscher. Sediment dynamics in a mangrove creek catchment in Trang, Thailand. *River, Coastal and Estuarine Morphodynamics: RCEM2011*, Tsinghua University Press, Beijing.
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- 2011 Van Duin, O.J.M., J.S. Ribberink, **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher. Modelling non-equilibrium bed load in a parameterized dune evolution model. *River, Coastal and Estuarine Morphodynamics: RCEM2011*, Tsinghua University Press, Beijing.
- 2010 Horstman, E.M., T. Balke, T.J. Bouma, **C.M. Dohmen-Janssen** and S.J.M.H. Hulscher. Optimizing methods to measure hydrodynamics in coastal wetlands: evaluating the use and positioning of ADV, ADCP and HR-ADCP. In: J. McKee Smith & P. Lynett (Eds.), *Proceedings of 32nd International Conference on Coastal Engineering (ICCE), 30 June - 5 July 2010, Shanghai, pp. 1-11. DOI: 10.9753/icce.v32.waves.51*
- 2008 Paarlberg, A.J., **C.M. Dohmen-Janssen**, J. Lansink, S.J.M.H. Hulscher and A.P.P. Termes. Modelling dynamic roughness in rivers during floods. In: D.R. Parsons, T. Garlan and J.L. Best (Eds.) *MARID2008: Marine and River Dune Dynamics III, Leeds, April 2008, pp 257-264.*
- 2008 Duijvestijn, R.C., **C.M. Dohmen-Janssen**, J.S. Ribberink and H.W. Grobbe. Hydrological and morphological effects of stream restoration in Twente. In: A.G. van Os and C.D. Erdbrink (Eds.), *Proc. NCR-days 2008, 20-21 November 2008, Vilsteren, NCR-publication 33-2008, pp. 76-77.*
- 2008 **Dohmen-Janssen, C.M.**, J. Lansink, A.J. Paarlberg, S.J.M.H. Hulscher and A.P.P. Termes. Modelling river dune splitting. In: D.R. Parsons, T. Garlan and J.L. Best (Eds.) *MARID2008: Marine and River Dune Dynamics III, Leeds, April 2008, pp. 79-86.*
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- 2007 Meilianda, E., **C.M. Dohmen-Janssen**, B.H.P. Maathuis, S.J.M.H. Hulscher, and J.P.M. Mulder. Beach Morphology at Banda Aceh, Indonesia in Response to the Tsunami on 26 December 2004. *Proc. Coastal Sediments 2007, May 13-17, New Orleans, USA.*
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- 2006 **Dohmen-Janssen, C.M.**, E. Meilianda, B.H.P. Maathuis and P.P. Wong. State of Banda Aceh beach before and after the tsunami. *30th Int. Conf. on Coast. Eng., ASCE, San Diego, California.*
- 2006 Paarlberg, A.J., **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher, J. van den Berg and A.P.P. Termes. Modelling morphodynamic evolution of river dunes. *Proc. River Flow 2006, Ferreira, Alves, Leal and Corsado (eds), Taylor & Francis Group, London, ISBN 0-415-40815-6, pp. 969-978.*
- 2005 Paarlberg, A. J., **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher, and A.P.P. Termes. Modelling river dune development. In: H.J.T. Weerts, I.L. Ritsema, and A.G. van Os (Eds.), *Proc. NCR-days 2005. Research on river dynamics from geological to operational time scales. 3-5 November 2005, Zwijndrecht, pp. 21-22.*
- 2005 Paarlberg, A.J., **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher and A.P.P. Termes. A parameterization for flow separation in a river dune development model. *Proc. River, Coastal and Estuarine Morphodynamics: RCEM 2005, Eds: G. Parker and M.H. García, Urbana, Illinois, USA, Balkema/Taylor&Francis, ISBN 0-415-39270-5, Vol II, pp. 883-895.*
- 2005 Dong, X.H., **C.M. Dohmen-Janssen**, M.J. Booij and S.J.M.H. Hulscher. Requirements and benefits of flow forecasting for improving hydropower generation, *Proc. ISSH, Int. Symp. On Stochastic Hydraulics 2005, eds. Vrijling, Ruigh, Stalenberg, Van Gelder, Verlaan, Zijderveld and Waarts, 23-24 May 2005, Nijmegen, The Netherlands, IAHR, Paseco Bajo Virgen del Puerto, Madrid, Spain, ISBN 90-805649-9-0, pp. 60-62.*
- 2005 Meilianda, E., **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher and J.P.M. Mulder. Towards coastal zone management of Banda Aceh beach: the coastal system before and after the tsunami disaster of December 26th 2004. *Proc. of the Int. Conf. on Coastal Cons. and Man., Tavira - Algarve, Portugal, April 17-20, 2005, ISBN 972-752-083-9, pp. 127-134.*
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- 2004 Paarlberg, A. J., **C.M. Dohmen-Janssen**, S.J.M.H. Hulscher and A.P.P. Termes. Effect of main channel roughness on water levels. In A.G. van Os & B. Makaske (Eds.), *Proc. NCR-days 2004. Research for managing rivers; present and future issues, pp. 106-107.*
- 2004 **Dohmen-Janssen C.M.** and W. Rossen. Increasing river discharges to Dutch estuaries: effects on safety and ecology. *Proc. Physics of Estuaries and Coastal Seas, October 2004, Merida, Mexico, (CD-Rom: PECS*

- 2004, papers, oral, Rossen_EXTABST-PECS 2004.pdf).
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- 2000 Vincent, C.E., L. Bjørnø, **C.M. Dohmen-Janssen**, D. Guyomar, V. Humphrey, M. Perrenes, J. S. Ribberink, A. Schaafsma, J. A. Taylor and P. Thorne. TRIDISMA – 3-D Sediment Transport Measurements by Acoustics. *Proc. 27th International Conference on Coastal Engineering 2000, Sydney, pp.3254-3262.*
- 1999 **Dohmen-Janssen, C.M.** Velocity profiles and sand concentrations in sheet-flow under waves and currents. *Proc. I.A.H.R. symp. on River, Coastal and Estuarine Morphodynamics, Genova, pp.467-476.*
- 1999 Katopodi, I., J.S. Ribberink, L. Hamm, N. Kitou, P. Samothrakis, **C.M. Dohmen-Janssen**, J.C. Savioli. Comparison of concentration measurements with well-sorted and bi-modal sand. *Proc. Coastal Sed. 1999, ASCE, June 1999, Long Island, New York, USA, ISBN 0-7844-0436-4, pp. 64-77.*
- 1998 **Dohmen-Janssen, C.M.**, G. van der Hout and J.S. Ribberink. Phase-lag effects in oscillatory sheet flow. *Proc. of the 26th Int. Conf. on Coastal Eng., Copenhagen, Denmark, pp.2449-2462.*
- 1998 Chatelus, Y., I. Katopodi, **C.M. Dohmen-Janssen**, J.S. Ribberink, P. Samothrakis, B. Cloin, J.C. Savioli, J. Bosboom, B.A. O'Connor, R. Hein, L. Hamm. Size Gradation effects in Sediment Transport. *Proc. of the 26th Int. Conf. on Coastal Eng., Copenhagen, Denmark, pp.2435-2448.*
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- Abstracts*
- 2014 Hendriks, J.M., E.M. Horstman, **C.M. Dohmen-Janssen**, T. Suzuki, D.S. van Maren. Wave dissipation in mangroves: parametrization of the drag coefficient based on field data. *In: Book of abstracts NCK-Days 2014, 27-28 March 2014, Delft, The Netherlands, pp.29.*
- 2014 Horstman, E.M., **C.M. Dohmen-Janssen**, T.J. Bouma and S.J.M.H. Hulscher. Tidal-scale flow routing and deposition in mangroves: a combined observational-numerical approach. *In: Book of abstracts NCK-Days 2014, 27-28 March 2014, Delft, The Netherlands, pp.36.*
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