

Publications

PhD theses

1. Van Engelen, J., 2020. Fresh groundwater reserves in major deltas: Evolution and current state of deltaic groundwater resources, Utrecht University, Utrecht, 194 pp.
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2. Aydin, B.E., 2020. Model Predictive Control of Water Level and Salinity in Coastal Areas. Delft University of Technology, 103 pp.
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3. Huizer, S. 2019. Fresh groundwater in large beach nourishments; Growth of freshwater resources in coastal areas, Utrecht University, Utrecht, 152 pp.
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4. Delsman, J.R. 2015. Saline groundwater - surface water interaction in coastal lowlands, VU University Amsterdam, Amsterdam, 194 pp.
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5. Pauw, P.S. 2015. Field and Model Investigations of Freshwater Lenses in Coastal Aquifers, PhD thesis, Wageningen University, Wageningen, 168 pp.
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6. De Louw, P.G.B. 2013. Saline seepage in deltaic areas. Preferential groundwater discharge through boils and interactions between thin rainwater lenses and upward saline seepage. PhD thesis, Vrije Universiteit Amsterdam, ISBN/EAN 9789461085429.
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Articles

- Van Engelen, J., Bierkens, M.F.P., Delsman, J.R., Oude Essink, G.H.P., 2021. Factors determining the natural fresh-salt groundwater distribution in deltas. *Water Resour. Res.* <https://doi.org/10.1029/2020WR027290> [download](#)
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- Haasnoot, M., Kwadijk, J.C.J., Van Alphen, J., Le Bars, D., Van den Hurk, B., Diermanse, F., Der Van Spek, A., Oude Essink, G.H.P., Delsman, J. R., Mens, M. 2019. Adaptation to uncertain sea-level rise; how uncertainty in Antarctic mass-loss impacts the coastal adaptation strategy of the Netherlands. *Environ. Res. Lett.* <http://iopscience.iop.org/10.1088/1748-9326/ab666c>. [direct download](#)
- Van Engelen, J., Verkaik, J., King, J., Nofal, E. R., Bierkens, M. F. P., Oude Essink, G. H. P. 2019. A three-dimensional palaeohydrogeological reconstruction of the groundwater salinity distribution in the Nile Delta Aquifer, *Hydrol. Earth Syst. Sci.*, 23, 5175–5198, <https://doi.org/10.5194/hess-23-5175-2019>.
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Abstracts and Posters

1. Autonomic and climatic impacts on the Dutch coastal groundwater system, AGU 2008
Authors: Esther van Baaren and Gualbert Oude Essink [Poster Abstract](#)
2. CLIWAT: a transnational project about climate change and coastal groundwater in the North Sea Region, SWIM 21 2010
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3. Salinisation and freshening of phreatic groundwaters in Zeeland, The Netherlands: a modeling study, SWIM 21 2010
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4. Netherlands Hydrological modelling Instrument for fresh and saline groundwater in the Dutch coastal zone, SWIM 21 2010
Authors: Jarno Verkaik, Esther van Baaren, Joost Delsman and Gualbert Oude Essink [Poster Abstract](#)
5. Analysis of Submarine Groundwater Discharge to Manila Bay: Density Dependent Hydrogeological Modeling of the South-eastern coastal zone of Bataan, Philippines, SWIM 21 2010
Authors: Aileen Mirasol-Robert, Gualbert Oude Essink, Hans H. Dürr [Abstract](#)
6. Uncertainty in end-member mixing: a blessing in disguise?, EGU 2012
Authors: Joost Delmans, Gualbert Oude Essink [Poster](#)