

# Publications

## PhD theses

1. 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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2. Delsman, J.R. 2015. Saline groundwater - surface water interaction in coastal lowlands, VU University Amsterdam, Amsterdam, 194 pp.  
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3. 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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4. 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

- Karamouz, M., Mahmoodzadeh, D., Oude Essink, G.H.P., 2020. A risk-based groundwater modeling framework in coastal aquifers: a case study on Long Island, New York, USA. *Hydrogeology Journal*. <https://doi.org/https://doi.org/10.1007/s10040-020-02197-9>
- Willet, J., King, J., Wetser, K., Dykstra, J.E., Oude Essink, G.H.P., Rijnaarts, H.H.M., 2020. Water supply network model for sustainable industrial resource use a case study of Zeeuws-Vlaanderen in the Netherlands. *Water Resour. Ind.* 24, 100131. <https://doi.org/10.1016/j.wri.2020.100131>
- King, J., Oude Essink, G.H.P., Karaolis, M., Bierkens, M.F.P., 2020. A practical quantification of error sources in regional-scale airborne groundwater salinity mapping. *Environ. Res. Lett.* 1–18. <https://iopscience.iop.org/article/10.1088/1748-9326/ab7b23>, [download](#)
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- 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>.
- Mabrouk, M., Jonoski, A., Oude Essink, G.H.P., Uhlenbrook, S., 2019. Assessing the fresh-saline groundwater distribution in the Nile Delta Aquifer using a 3D variable-density groundwater flow model. *Water (Switzerland)* 11, 1946 [doi:10.3390/w11091946](https://doi.org/10.3390/w11091946) [download](#)
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- Bakx, W., Doornenbal, P.J., Weesep, R.J., Bense, V.F., Oude Essink, G.H.P., Bierkens, M.F.P. 2019. Determining the Relation between Groundwater Flow Velocities and Measured Temperature Differences Using Active Heating-Distributed Temperature Sensing. *Water*, 11, 1619. <https://doi.org/10.3390/w11081619> [download](#)
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## Reports (in English)

Oude Essink, G.H.P., Van der Linden, W. 2005, Impact of the 26-12-04 Tsunami on groundwater systems and groundwater based water supplies, TNO report 2006-U-R-172/A, 19 p., Utrecht, The Netherlands. [download](#)

## 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  
Authors: Gualbert Oude Essink, Perry De Louw, and many others! [Poster Abstract](#)
3. Salinisation and freshening of phreatic groundwaters in Zeeland, The Netherlands: a modeling study, SWIM 21 2010  
Authors: Esther van Baaren, Perry de Louw, Gualbert Oude Essink [Poster Abstract](#)
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](#)