

# Stage

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Al een flink aantal jaren dragen studenten bij aan Deltares projecten op het gebied van zoet-zout grondwater in het kustgebied. Soms leidt dit mooie resultaten, peer-reviewed artikel waardig! Alles bij elkaar: we zijn een groot voorstander van het begeleiden van studenten, voor een stage- of afstudeeropdrachten. De laatste jaren hebben we studenten gehad van verschillende pluimage: universiteiten (WUR, UU, VU), hogescholen (Zeeland, Larensteijn) en instituten als IHE. Ook buitenlandse (PhD-)studenten waren welkom (Universiteiten van Gent, Firenze, Bologna, Roma (La Sapienza), Aken, Teheran, etc.).

We hebben een flink aantal onderwerpen op de plank klaar liggen, van numeriek modelleren tot en met water systeem analyse en monitoring, of een combi. Neem contact met ons, of met de desbetreffende studenten. Tot hoors!



## Enkele onderwerpen:

- Freshwater management techniques as a bridge between water demand and supply in the Mekong Delta, Vietnam (including fieldwork provinces Ben Tre or Tra Vinh)
- Analysis of upconing of saline groundwater under deltaic areas (numerical study)
- Effect of model parameters (e.g. solute solvers, grid convergence) on variable-density groundwater and salt transport benchmark cases (e.g. Henry, Hydrocoin, upconing; numerical analysis using iMOD-SEAWAT)
- Fresh groundwater resources management at a farmers level in the province of Zeeland, The Netherlands: setting up robust web-based clipping tools; a modelling study
- Assessing submarine groundwater discharge along coastal stretches: a global analysis
- Setting up a 3D variable-density groundwater flow model simulating salt water intrusion in a deltaic area: possible cases: the Bengal, Indus, Po, Yangtze, Pearl river deltas

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## Afstudeeronderwerpen sinds 2005:

### 2020

- Josh Shankel, Utrecht University, [Exploration of shallow sandy ridge systems for aquifer storage and recovery solutions in the Vietnamese Mekong Delta](#)
- Wouter Goofers, Utrecht University, [Paleo-hydrogeographic reconstruction of the groundwater salinity in the Ayeyarwady Delta, Myanmar, using a 3D variable-density groundwater model](#)

### 2019

- Lennart Brokx, Utrecht University, [Projecting the Effects of Saltwater Intrusion on the Fresh Groundwater Resources of Southeastern Louisiana and the New Orleans Area , USA , based on 3D Variable-Density Groundwater Modelling](#)

### 2018

- Lars Geitenbeek, Utrecht University, [Saline groundwater extraction as a measure to increase the freshwater availability; A case study for the western parts of the Netherlands](#)
- Hendrikx, N., Utrecht University, [Identifying the most important factors that determine fresh groundwater availability in deltaic areas](#)
- Hugo Hagendoorn, Delft University of Technology, [Measuring and modelling to optimise a salinity monitoring network for use in the optimal control of flushing: Case study: Lissertocht catchment](#)

- Colin Mainz, University of Aachen, Germany, [Variable-density groundwater flow and coupled salt transport models of the Chao Phraya Delta, Thailand](#)
- Tobias Mulder, Utrecht University, [Constructing 3D variable-density groundwater flow models for six deltas using global data sets](#)

#### 2017

- Wayangi Lakshani Weerasekera, IHE-Delft, [3D Variable-density Groundwater Modelling of the Red River Delta, Vietnam](#)

#### 2016

- Lubna Badi, Utrecht University, BSc, [Securing freshwater supply with measures to diminish the effect of sea-level rise by climate change \(Literature review on state-of-art SWI research and a case study on SIDS in the Pacific\)](#)
- Björn Bolhuis, Utrecht University, [Developing an automated open source system for coastal multi-hazard assessment and management of water resources in a changing climate \(Based on the Coastal Hazard Wheel system\)](#)

#### 2015

- Steven Ros, Utrecht University, The Nile Delta, Egypt: creating a fresh-salt water model
- Marjolein Vogels, Utrecht University, [Modelling the central coastal groundwater system of Bangladesh](#)

#### 2014

- Jan Snel, Wageningen UR, [Oplossingen ten behoeve van zoetwatervoorziening voor de landbouw op Schouwen-Duiveland](#)
- Mieke Hulshof, Wageningen UR, [Spatial scales in salinity modeling, case Waterdunen, Zeeland \(Folkert Hellinga Award 2014\)](#)
- Daniel Zamrsky, Wageningen UR, [Coastal vulnerability to tsunami impacts and modelling SWI in aquifers situated in the most vulnerable areas](#)
- Carlos Rosado de Palacio, Utrecht University, [Water system analysis and numerical modelling of a coastal aquifer in western Mexico: a case study](#)

#### 2013

- Marjan Sommeijer, WUR, [Identifying suitable locations for infiltration of fresh water in creek ridges](#)
- Thomas Boerman, UU, [Fresh water lenses under creek ridges: a pilot study in Zeeland to increase fresh water supply](#)
- Pieter Winters, Universteit Gent, Belgie, [Estimating flow patterns to an agricultural ditch by inverse modeling of temperature and salinity measurements](#)

#### 2012

- Maitri Fischer, UU, [Managing freshwater lenses in a Dutch coastal setting - increasing freshwater availability by aquifer storage and recovery.](#)
- Martijn Visser, UU, [Aquifer storage and recovery in a fossil creek bed - managing droughts in a brackish environment](#)
- Irene Lugten, UU, [The effects of salt water intrusion from the Dintel into the surface and groundwater in the regio](#)
- Kyra Hu-A-Ng, UU, [Understanding Holocene coastal development and the resulting evolution of groundwater chloride distribution in the North-West coastal region of the Netherlands - a historical modelling approach](#)

#### 2010

- Bernard Voortman, UU, [Invloed van gebiedseigenschappen en klimaatverandering op de dikte en vorm van regenwaterlenzen in de Provincie Zeeland en bijdrage aan Hydrol. Earth Syst. Sci., 15, 3659-3678](#)
- Aileen Mirasol-Robert, UU, [Analysis of Submarine Groundwater Discharge to Manila Bay - 3D Density Dependent Hydrogeological Modeling of the South-eastern coastal zone of Bataan, Philippines](#)
- Dagmar Schnitzer, UU, [Response of a fresh-brackish groundwater system to hydrological management in and around the Naardermeer wetland, the Netherlands](#)

#### 2008

- Tommaso Letterio, Uni of Firenze, Italy

#### 2007

- Bas de Veen en Sjors Stevens, VU, [Meetcampagne regenwaterlenzen in de Provincie Zeeland](#)
- Corne Prevo, Hogeschool Zeeland, [Aquatische Ecotechnologie: Regenwaterlenzen binnen de Provincie Zeeland](#)
- Francesco Sergi, La Sapienza, Roma, Italy, [Salinisation processes in the Province of Zeeland, the Netherlands, bijdrage aan Near Surface Geophysics, 401-412, 2007](#)
- Marian Koskamp, WUR, [Modelstudie naar chlorideconcentratie in bodemvocht en ondiep grondwater in een zout kwelsysteem, conceptverslag](#)
- Valentina Marconi, Uni of Bologna, Italy, [Characterization of shallow fresh groundwater lenses in the Province of Zeeland with 2D geo-electrical surveys](#)
- Vesna Tripkovic, UNESCO-IHE, [Salt water intrusion in The Province of Zeeland, the Netherlands - water system analysis and numerical modeling](#)

#### 2006

- Elles Bader, VU, [Verziltings- en verzoetingsprocessen in Nederland; met speciale aandacht voor de Wieringermeerpolder](#)
- Piet Maljaars en Runa Wils, Hogeschool Larenstein, [Regenwaterlenzen in zoute kwelsystemen](#)

#### 2005

- Beatrice Giambastiani, Uni of Bologna, Italy, [Saltwater intrusion and water management in the unconfined coastal aquifer of Ravenna \(Italy\): a numerical model J. Hydrol. 340, 1-2, 91-104, 2007.](#)