

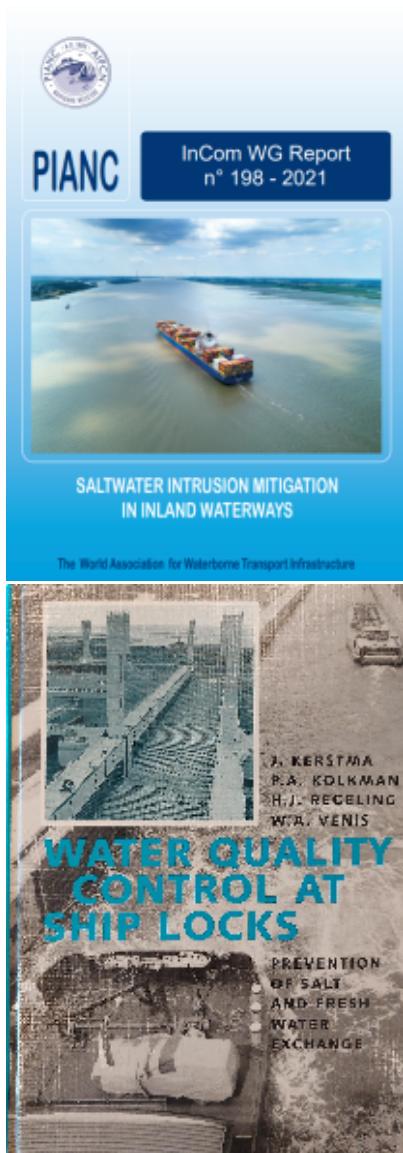
# Knowledge Base

[Home](#) [Projects](#) [Methods and Tools](#) [Knowledge Base](#) [Internships](#) [Publications](#) [Contact](#)

As a knowledge institute, it is important for Deltares to be at the forefront of **knowledge development**, both in **national and international** settings. One of the activities organised by Team Salinisation is a yearly [lecture series](#).

## Impact

Deltares contributes to many impactful publications on salinisation topics, including:



## Cooperations

Deltares is active in several cooperative programmes:

- Knowledge Program Hydraulic Structures
- PIANC
- AquaConnect
- SALTISolutions

# Salinisation Lectures

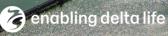
Team Salinisation organises a yearly lecture series. If you would like to be notified when a new lecture series is announced, please send a message to salinisation@deltares.nl.

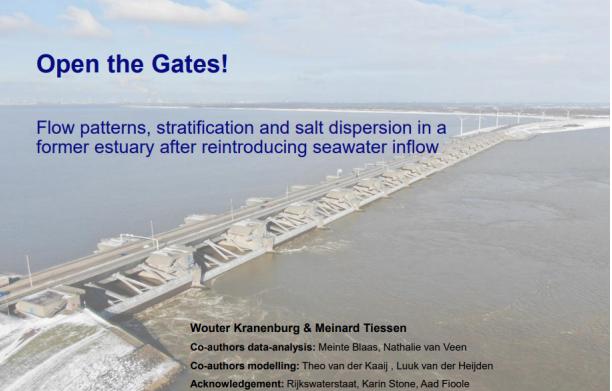
2022



**Deltas**  
**Dutch south-western delta**  
**Salinization Lecture**

Tom O'Mahoney  
Joost Delsman  
Wouter Kranenburg  
22 november 2022





**Open the Gates!**  
Flow patterns, stratification and salt dispersion in a former estuary after reintroducing seawater inflow

**Wouter Kranenburg & Meinard Tiessen**  
Co-authors data-analysis: Meintje Blaas, Nathalie van Veen  
Co-authors modelling: Theo van der Kaaif, Luuk van der Heijden  
Acknowledgement: Rijkswaterstaat, Karin Stone, Aad Fioole

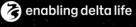
2021 >>

**Salt intrusion in estuaries around the world under influence of climate change**

MSc internship Avelon Gerritsma Spring 2021

Supervisors:  
Wouter Kranenburg (Deltares) &  
Albrecht Weerts (Wageningen University, Deltares)

Continuation:  
Stendert Laan  
Daan van Keulen

**Deltares**  



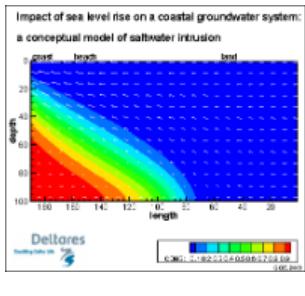
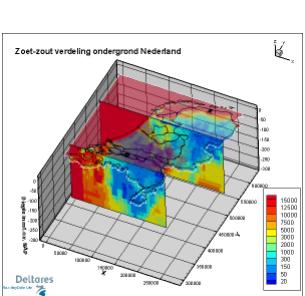
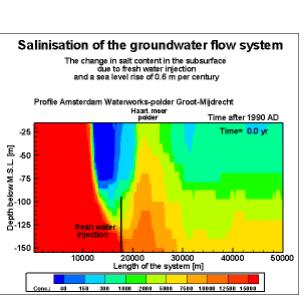
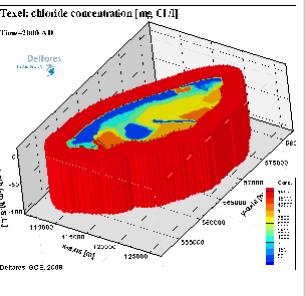
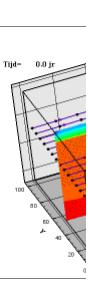


**Salinization: World map future projections**

Which areas worldwide are threat by salinization and how will the change in the future?

Gu Oude Essink and many others

## Animations: examples of salinisation processes >>

 <p>Impact of sea level rise on a coastal groundwater system: a conceptual model of saltwater intrusion</p>	 <p>Zoet-zout verdeling ondergrond Nederland</p>	 <p>Salinisation of the groundwater flow system The change in salt content in the subsurface due to fresh water injection and a sea level rise of 0.6 m per century</p>	 <p>Texel chloride concentration [me Cl / l] Time=2100 AD Hart, near water Time= 0.0 yr</p>	 <p>Tijd= 0.0 yr</p>
Henry's profile with sea level rise	3D zoet-zout verdeling ondergrond NL	Fresh water injection to combat salinisation	3D zoet-zout verdeling ondergrond Texel	Regional groundwater flow system captured by

