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Overzicht

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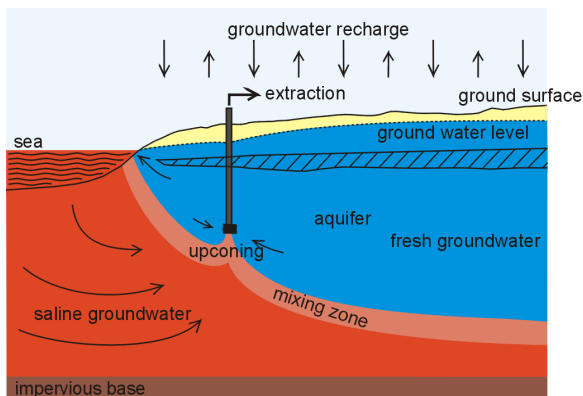
- Slim Water Management, case Rijnland
- Innovatie in Perkpolder, peilbuizen beschermen grondwater tegen verzilting
- The Challenges of Saline Groundwater
- Zoetwater zelfvoorzienendheid, Deltaproof
- GO-FRESH: Ondergrondse waterbergingsproeven Proeftuin Zuidwestelijke Delta
- Kansrijke oplossingen voor een robuuste zoetwatervoorziening(Uitleg GO-FRESH 3 proeven, 4m20s)
- Kreekrug Infiltratie Proef in bedrijf (2m39s)
- De effectiviteit van het doorspoelen van polders in Nederland
- De bronnen van verzilting, en de lange geschiedenis die eraan voorafgaat, case NL
- Nederland, een Landschap gevormd door Mens en Natuur

Lecture Notes Density Dependent Groundwater Flow: Salt water intrusion in coastal aquifers

Auteur: Gualbert Oude Essink

Dictaat: [Density Dependent Groundwater Flow](#)

- 1 Introduction
- 2 Characteristics of a density dependent groundwater system
- 3 Freshwater head
- 4 The concept of a fresh-saline interface
- 5 Control of salt water intrusion
- 6 Numerical modelling
- 7 Salt water intrusion in the Netherlands
- 8 Heat transport in porous media: introduction



Lecture Notes Groundwater Modelling

Auteur: Gualbert Oude Essink

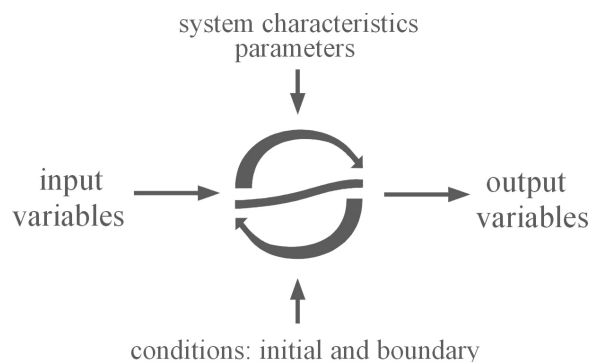
Dictaat: [Groundwater Modelling](#)

PART I Modelling Protocol

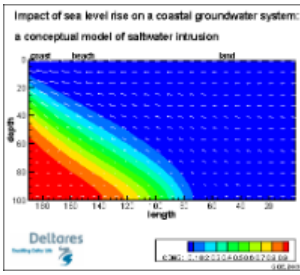
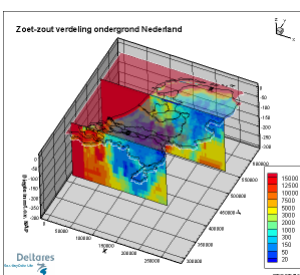
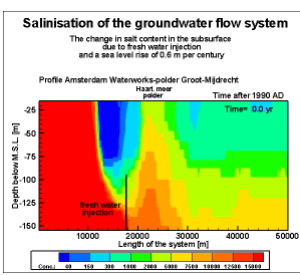
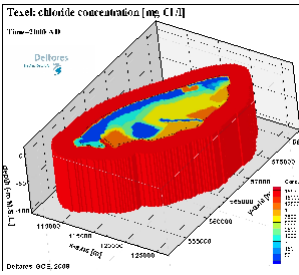
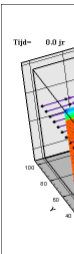
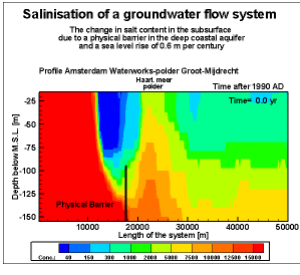
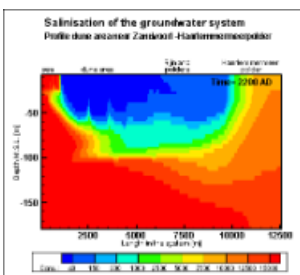
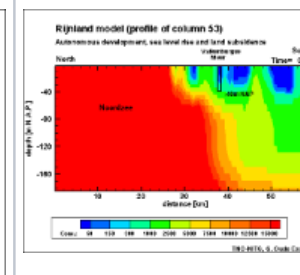
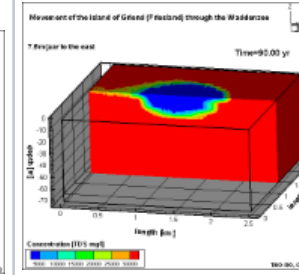
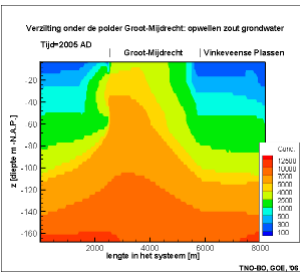
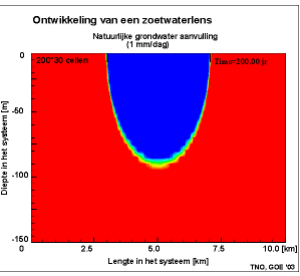
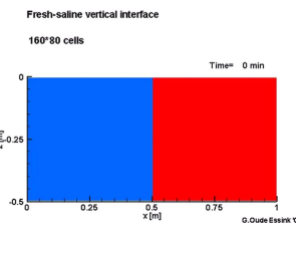
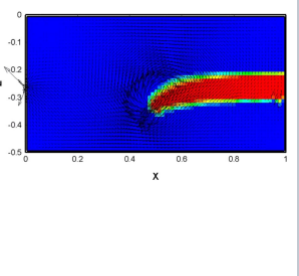
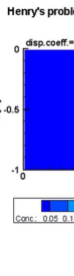
- 1 Introduction
- 2 Classification of mathematical models
- 3 Methodology of modelling
- 4 Data gathering

PART II Groundwater Modelling

- 5 Introduction
- 6 Mathematical description of hydrogeologic processes
- 7 Solution techniques
- 8 Numerical aspects of groundwater models
- 9 Some selected groundwater codes



Animations: examples of salinisation processes

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 	Region partly c 
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 captured
Physical barrier in the coastal zone 	Dutch profile: extraction, upconing and low inland levels 	Profile over 3D model: effect sea level rise on salinisation 	Movement of the island De Griend (NL): creation of a freshwater lens 	Evo lens 
Physical barrier in the coastal zone	Dutch profile extraction, upconing and low inland levels	Profile over 3D model: effect sea level rise on salinisation	Movement of the island De Griend (NL): creation of a freshwater lens	Evo lens
Upconing saline groundwater under a low-lying area 	Ontwikkeling van een zoetwaterlens 	Interface 	Saltwater pocket 	Henry 
Upconing saline groundwater under a low-lying area	Ontwikkeling van een zoetwaterlens			