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Overzicht

English wiki-site

freshsalt.deltares.nl





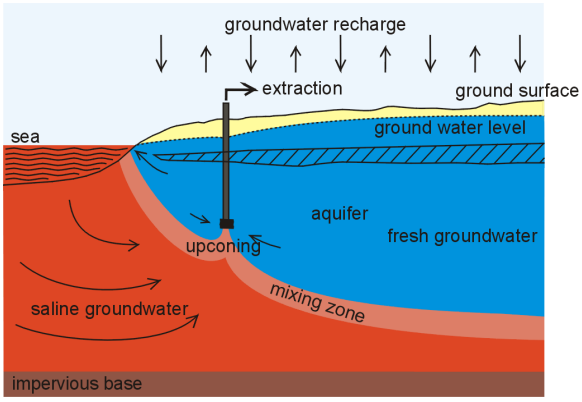
Filmpjes

- 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

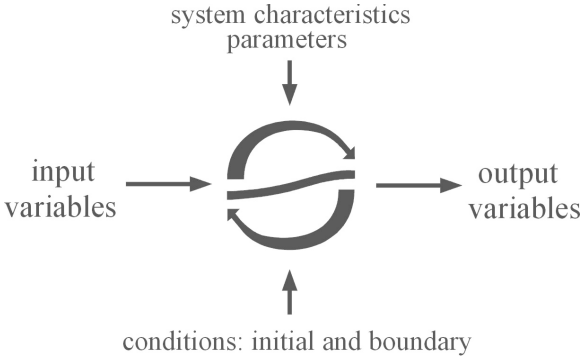
Auteur: Gualbert Oude Essink
Dictaat: Density Dependent Groundwater Flow

1 Introduction
2 Characteristics of a density dependen 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



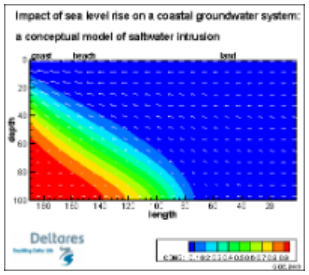
Lecture Notes Groundwater Modelling

Auteur: Gualbert Oude Essink
Dictaat: Groundwater Modelling
PART I Modelling Protocol
1 Introduction
2 Classication 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



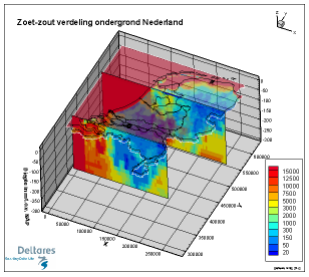
Animations: examples of salinisation processes

Henry's profile with sea level rise



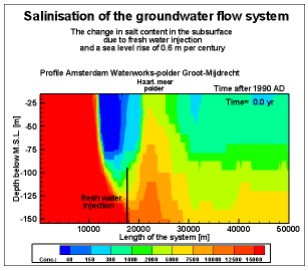
Henry's profile with sea level rise

3D zoet-zout verdeling ondergrond NL



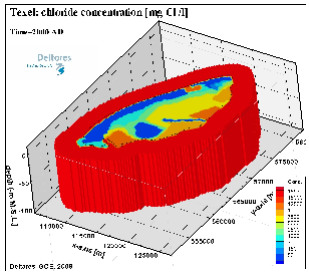
3D zoet-zout verdeling ondergrond NL

Fresh water injection to combat salinisation



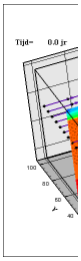
Fresh water injection to combat salinisation

3D zoet-zout verdeling ondergrond Texel



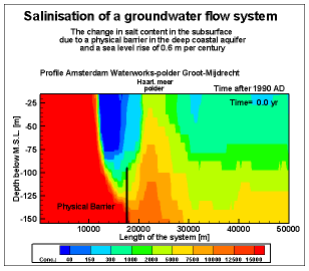
3D zoet-zout verdeling ondergrond Texel

Region partly c



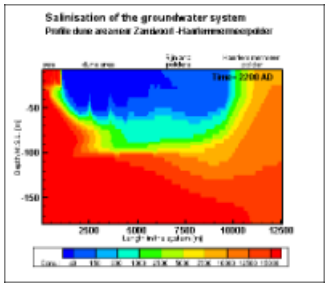
Regional captured

Physical barrier in the coastal zone



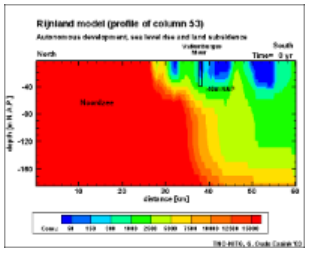
Physical barrier in the coastal zone

Dutch profile: extraction, upconing and low inland levels



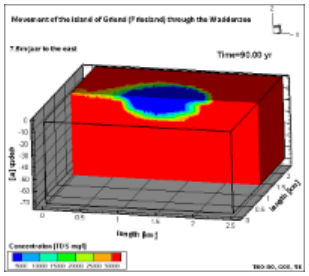
Dutch profile extraction, upconing and low inland levels

Profile over 3D model: effect sea level rise on salinisation



Profile over 3D model: effect sea level rise on salinisation

Movement of the island De Griend (NL): creation of a freshwater lens



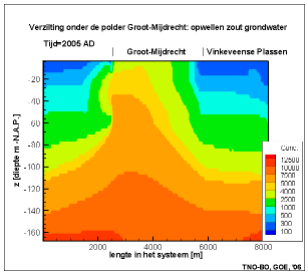
Movement of the island De Griend (NL): creation of a freshwater lens

Evo lens



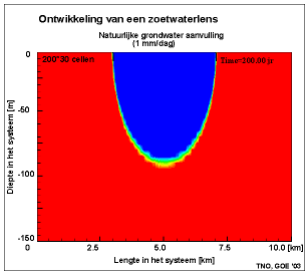
Evolu lens

Upconing saline groundwater under a low-lying area



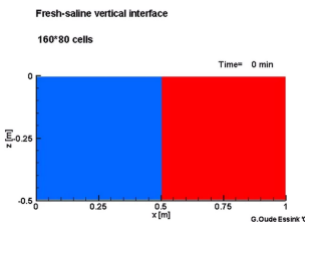
Upconing saline groundwater under a low-lying area

Ontwikkeling van een zoetwaterlens

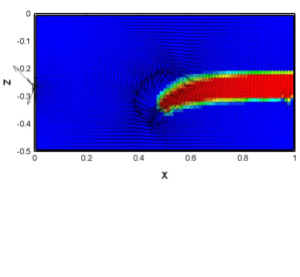


Ontwikkeling van een zoetwaterlens

Interface



Saltwater pocket



Henry

