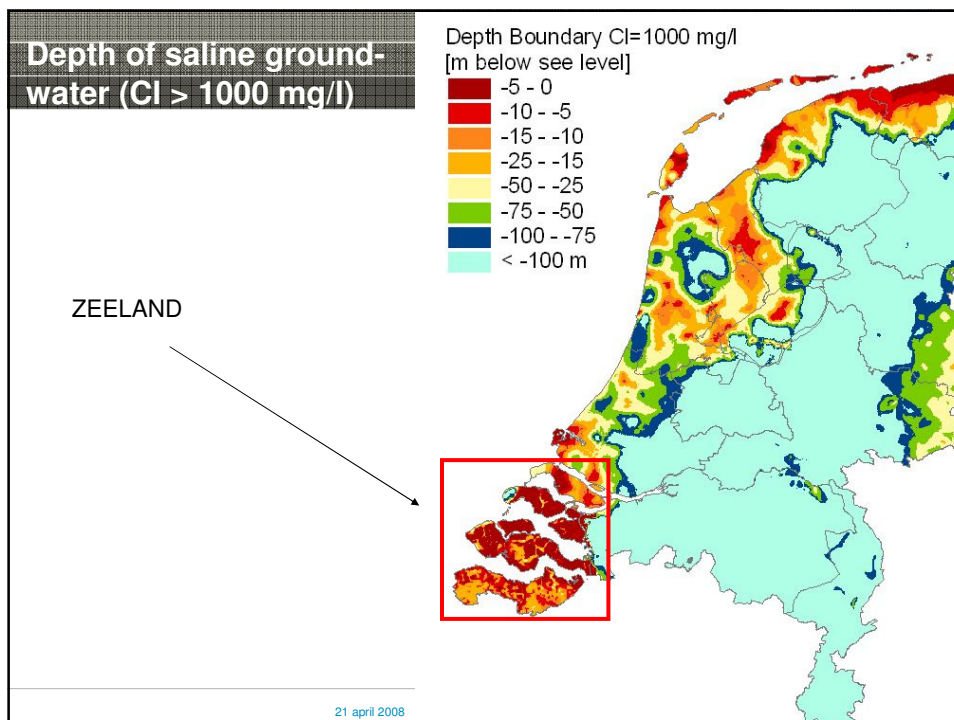




Climate effects on shallow rainwater lenses on top of saline groundwater

Perry de Louw

Bernard Voortman (UU),
 Gualbert Oude Essink (Deltares)
 Esther van Baaren (Deltares)
 Sara Eeman (WUR)
 Esther Vermue (WUR)
 Jan Gunnink (TNO)
 Bernard Siemon (BGR)



Problem definition and objectives

Shallow saline groundwater

Saline seepage leads to:

- Salinization of surface water
- Salinization of root zone (rainwater lens)

Main questions:

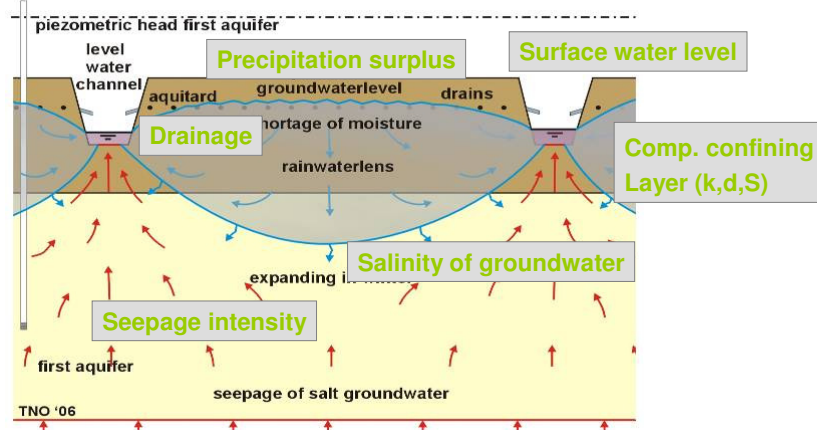
- | | | |
|--|---|---------|
| • Spatial variation of saline seepage / rainwater lenses | } | PRESENT |
| • Dynamics of saline seepage - rainwater lens | | |
| • Effects of sea level rise and climate change | } | FUTURE |

Deltares

21 april 2008

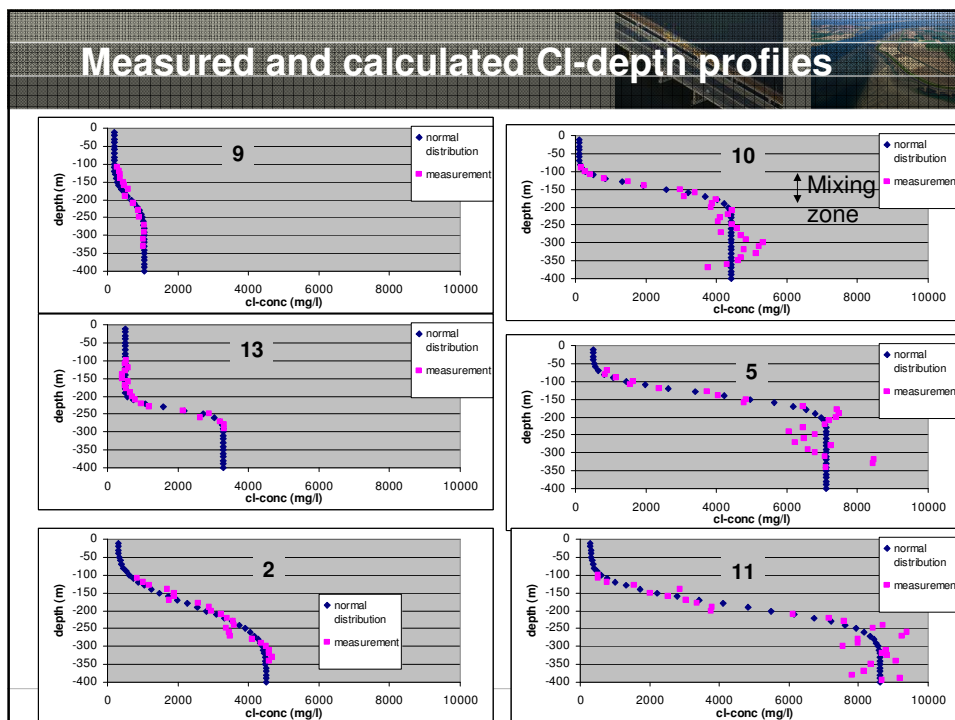
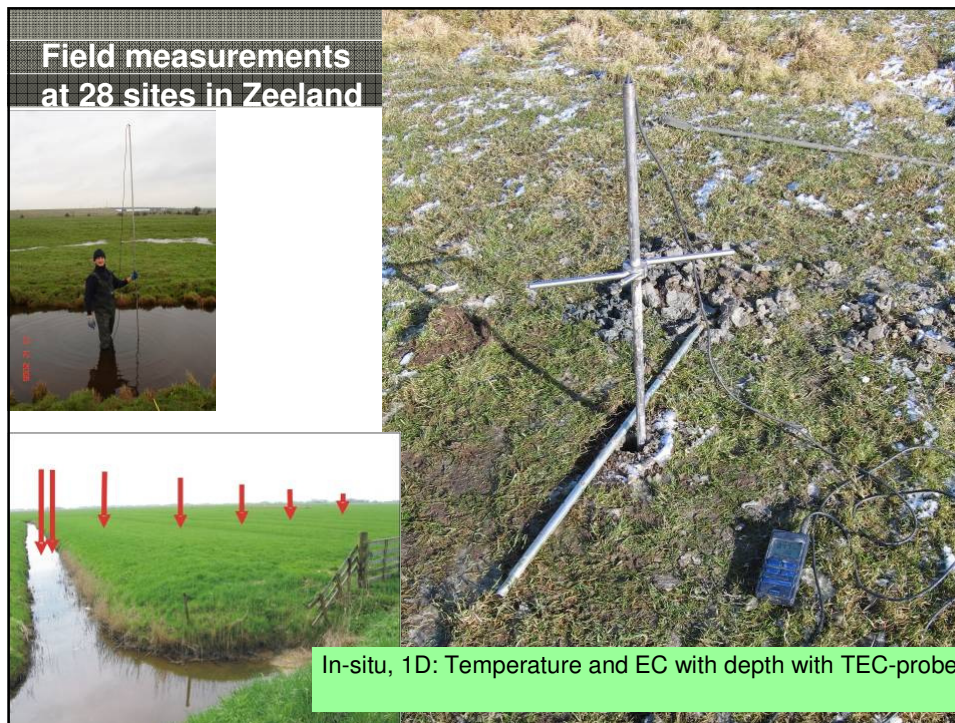
Factors controlling fresh-salt interface

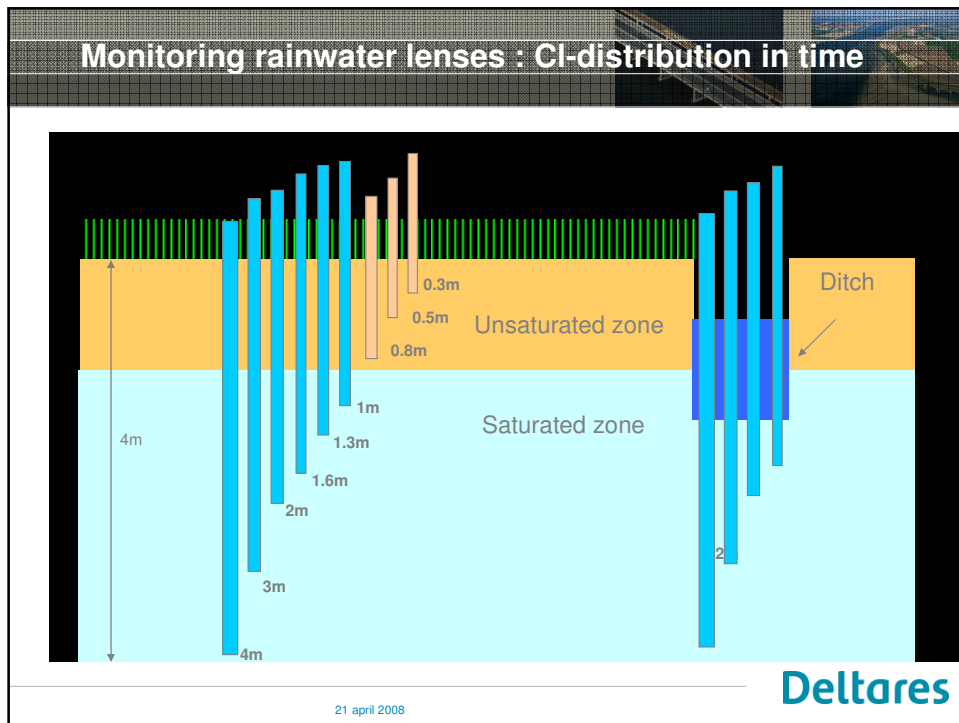
Situation in wintertime

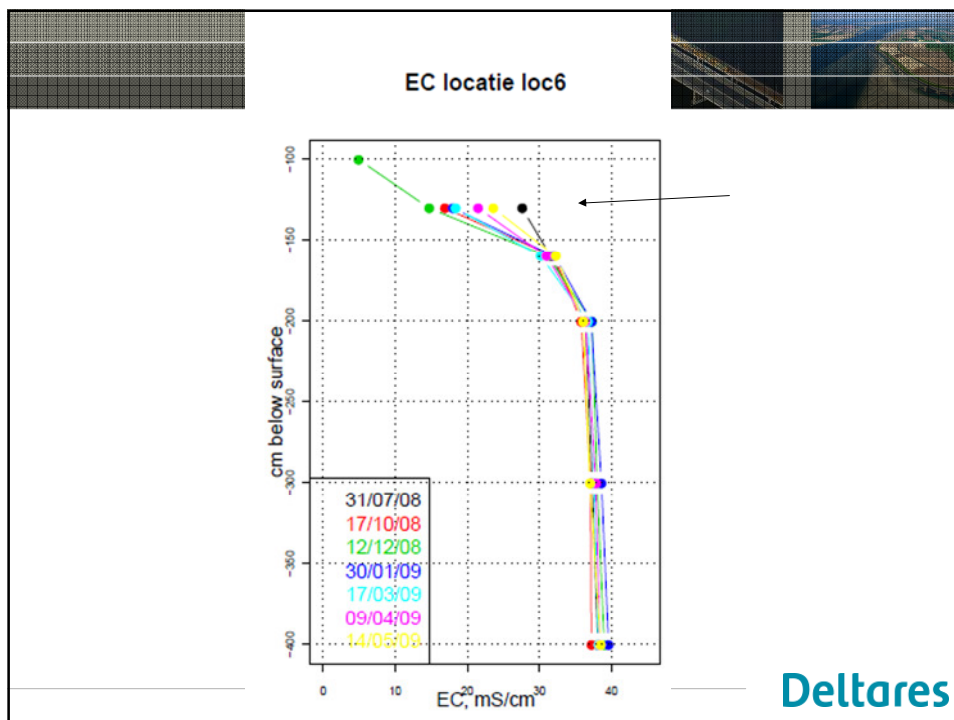
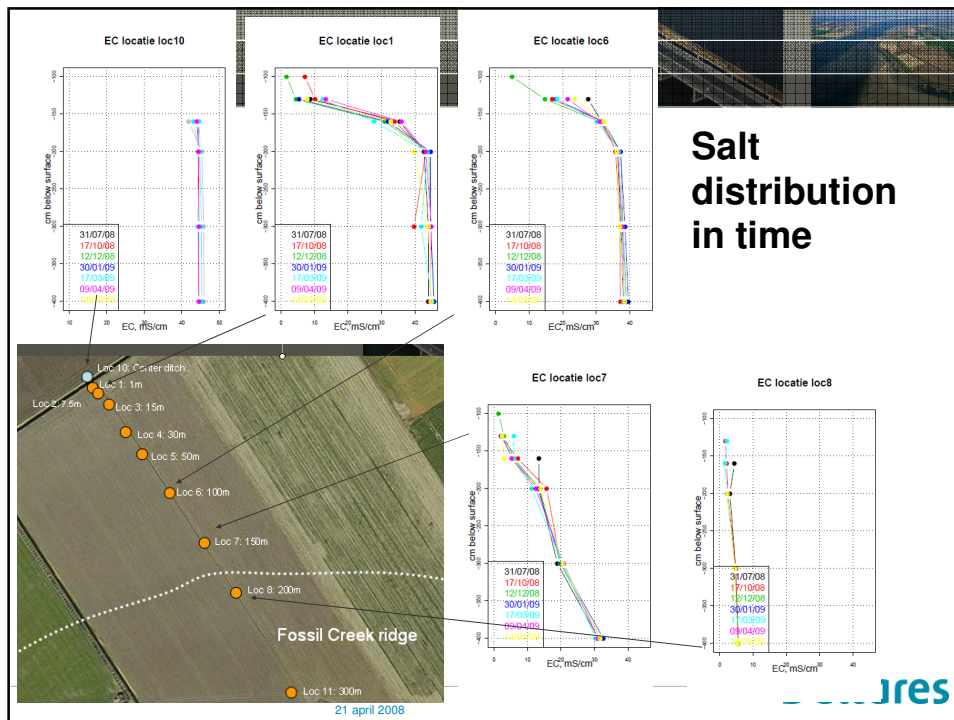


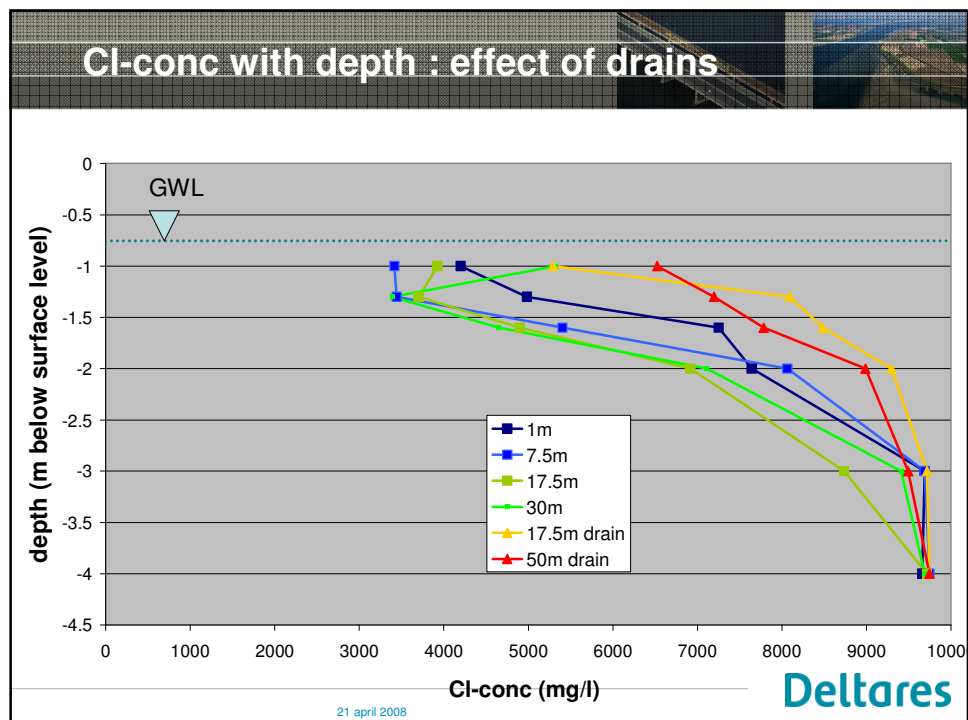
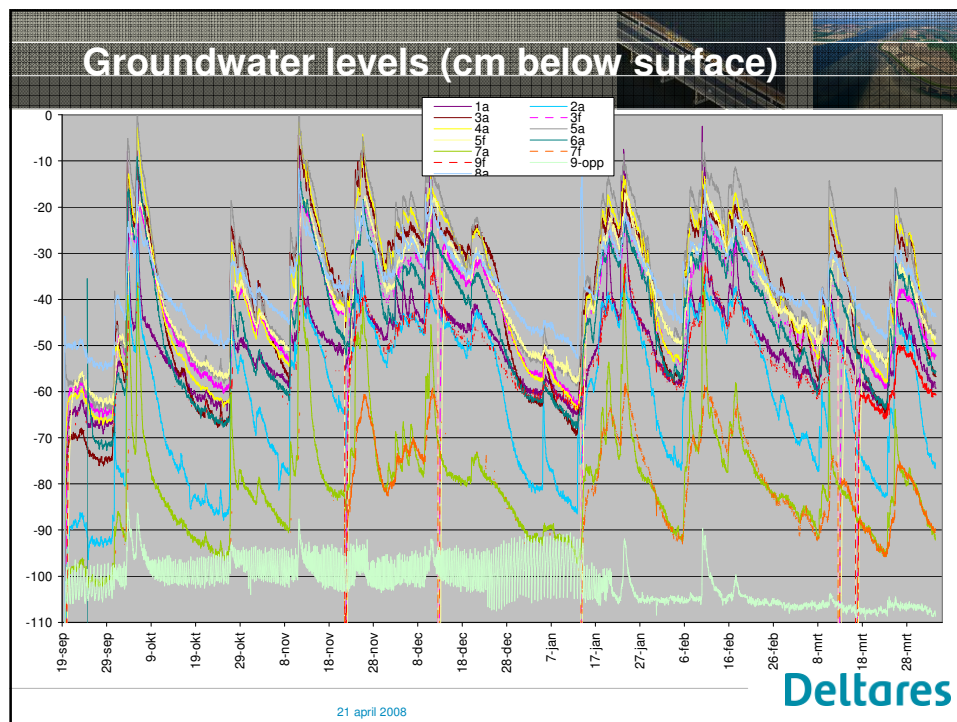
Deltares

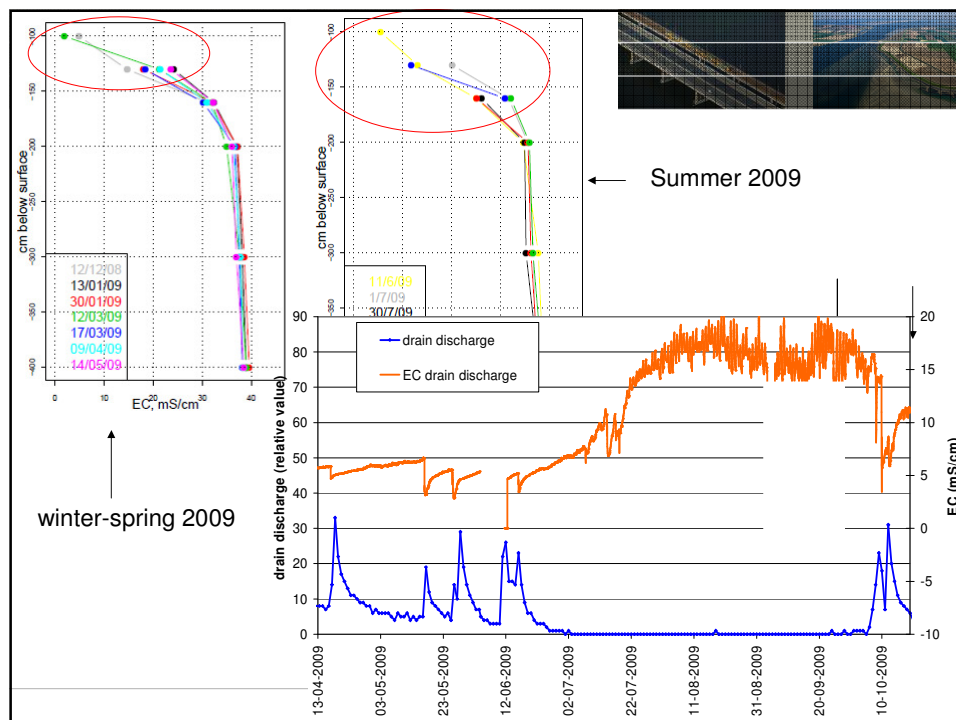
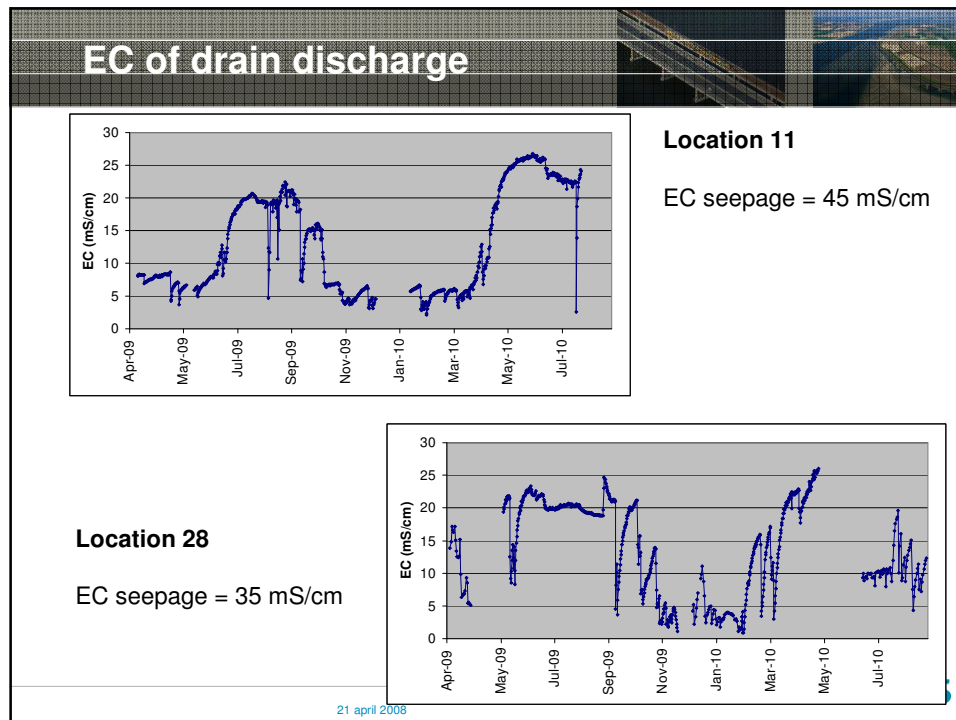
21 april 2008

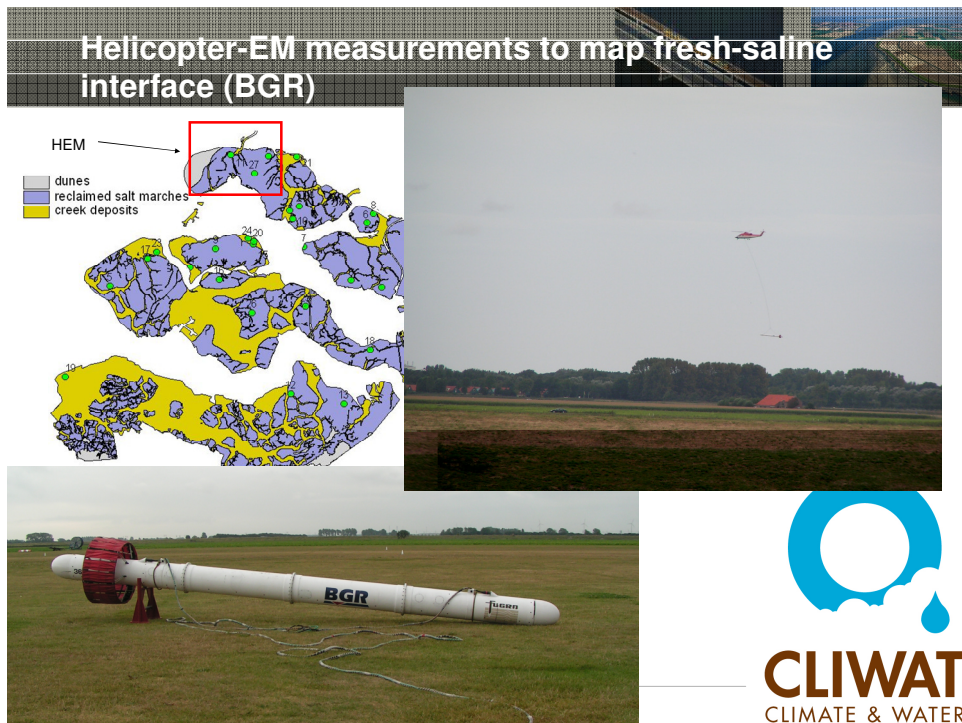












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