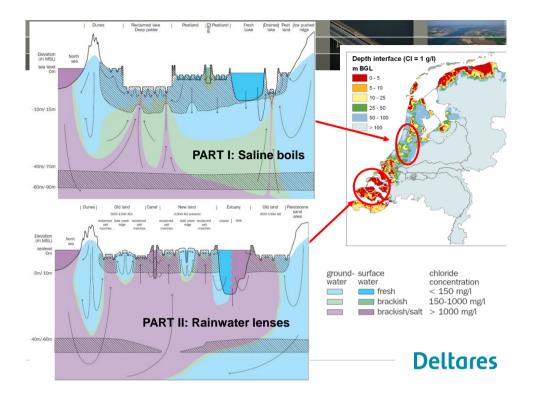


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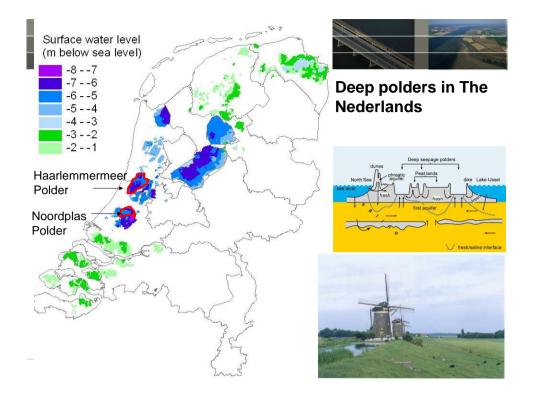




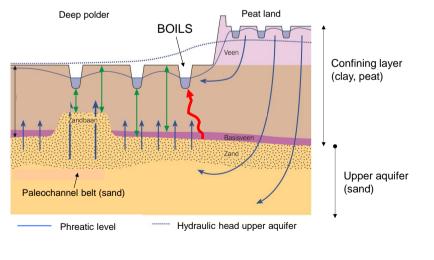
SWIM 2014





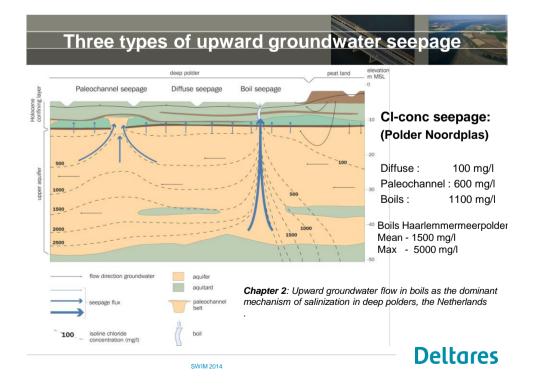


Boils develop when water pressure > weight overlying stratum



Deltares





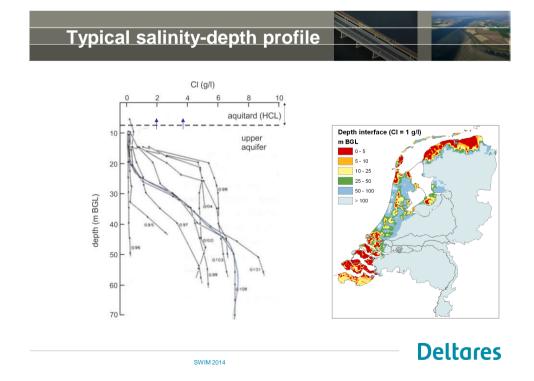
					22 43 44
Saline boils dominant mechanism of salinization in deep					
polders					
		i			2014
	Area	Contribution % (± stdev.) to:		Paleochannel seepage Diffuse seep	age Boil seepage
		Polder water	Total salt load		
		Discharge			
Diffuse seepage	31 km ²	7 % (± 1.8)	4 % (± 1.7)	-	
Paleochannel	6 km ²	9 % (± 2.5)	19 % (± 6.2)	and the second s	500
seepage					1000
Boil seepage	< 0.001	13 % (± 4.7)	64 % (± 7.7)		11 2500 V V

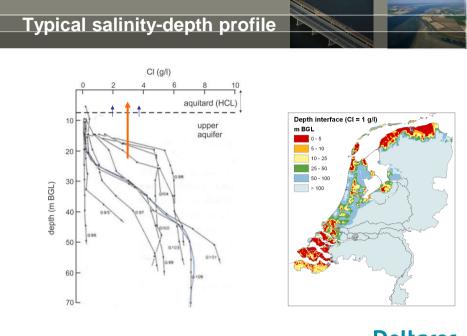
<u>CHAPTER 3</u>: Quantifying water and salt fluxes in a lowland polder catchment dominated by boil seepage: a probabilistic end-member mixing approach GLUE

SWIM 2014

km²

:

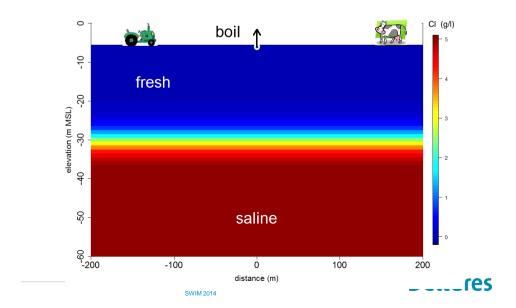


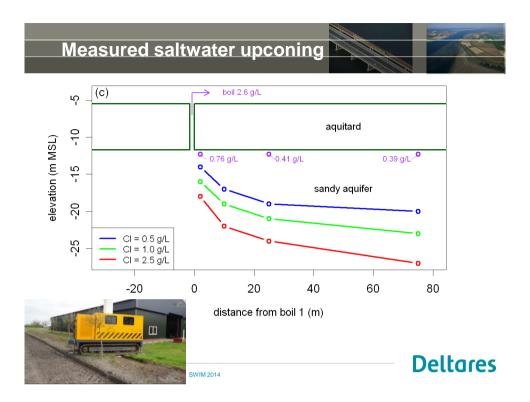


SWIM 2014

Deltares



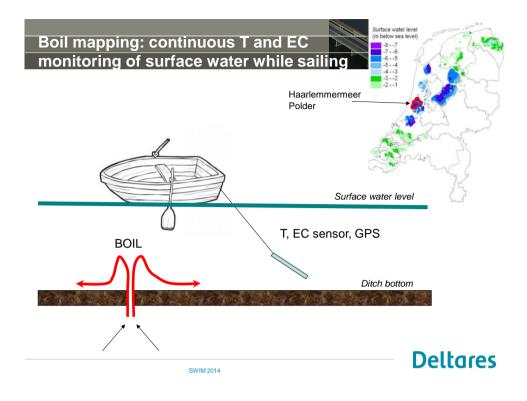


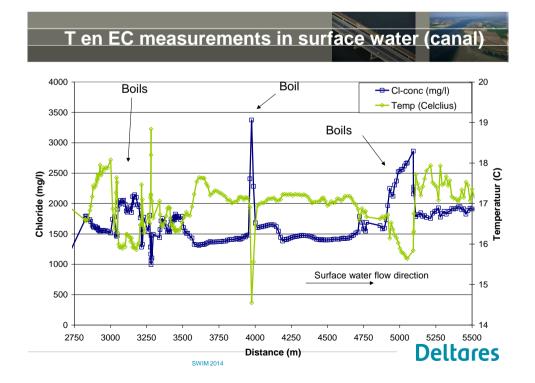


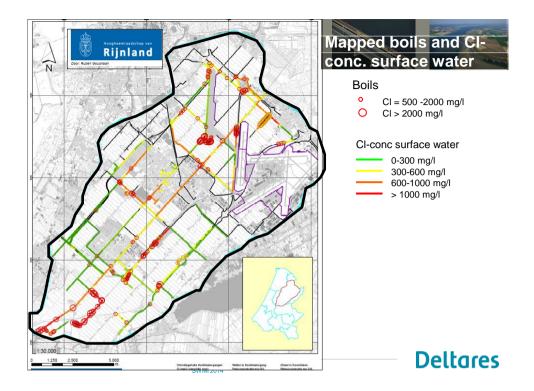


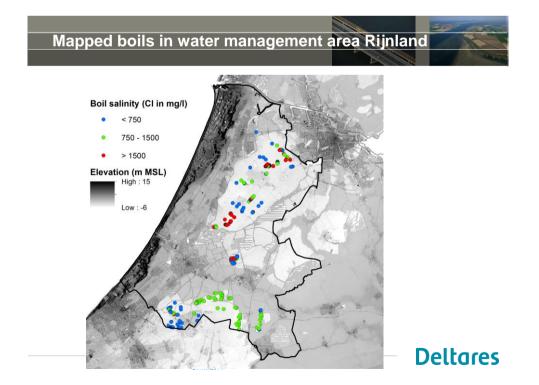


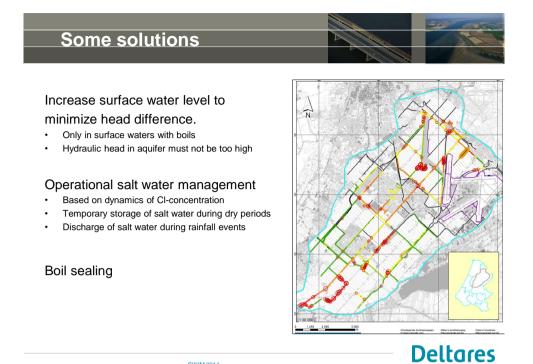
SWIM 2014





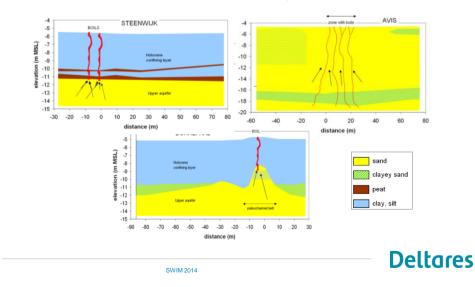




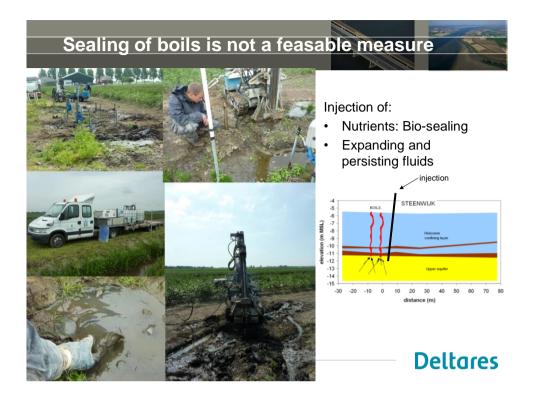


SWIM 2014

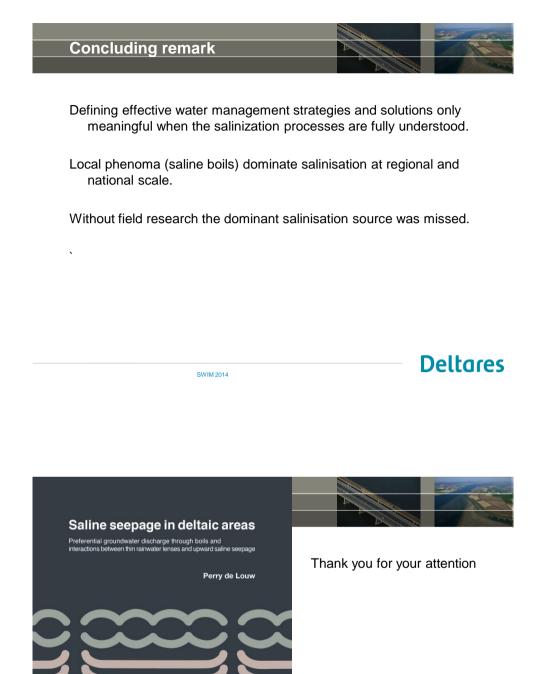




Field research to examine possibilities of sealing boils







Boils are found all around the world in different setting

Boils are found in different settings: areas with high hydraulic gradients

- polders
- beaches
- submarine groundwater discharge

SWIM 2014

- lakes and lake shores
- river and brook valleys
- dikes, dams
- foot of dunes, ice-pushed ridges or other hills

Boils are everywhere

