DE STAAT
van de Waddenzee

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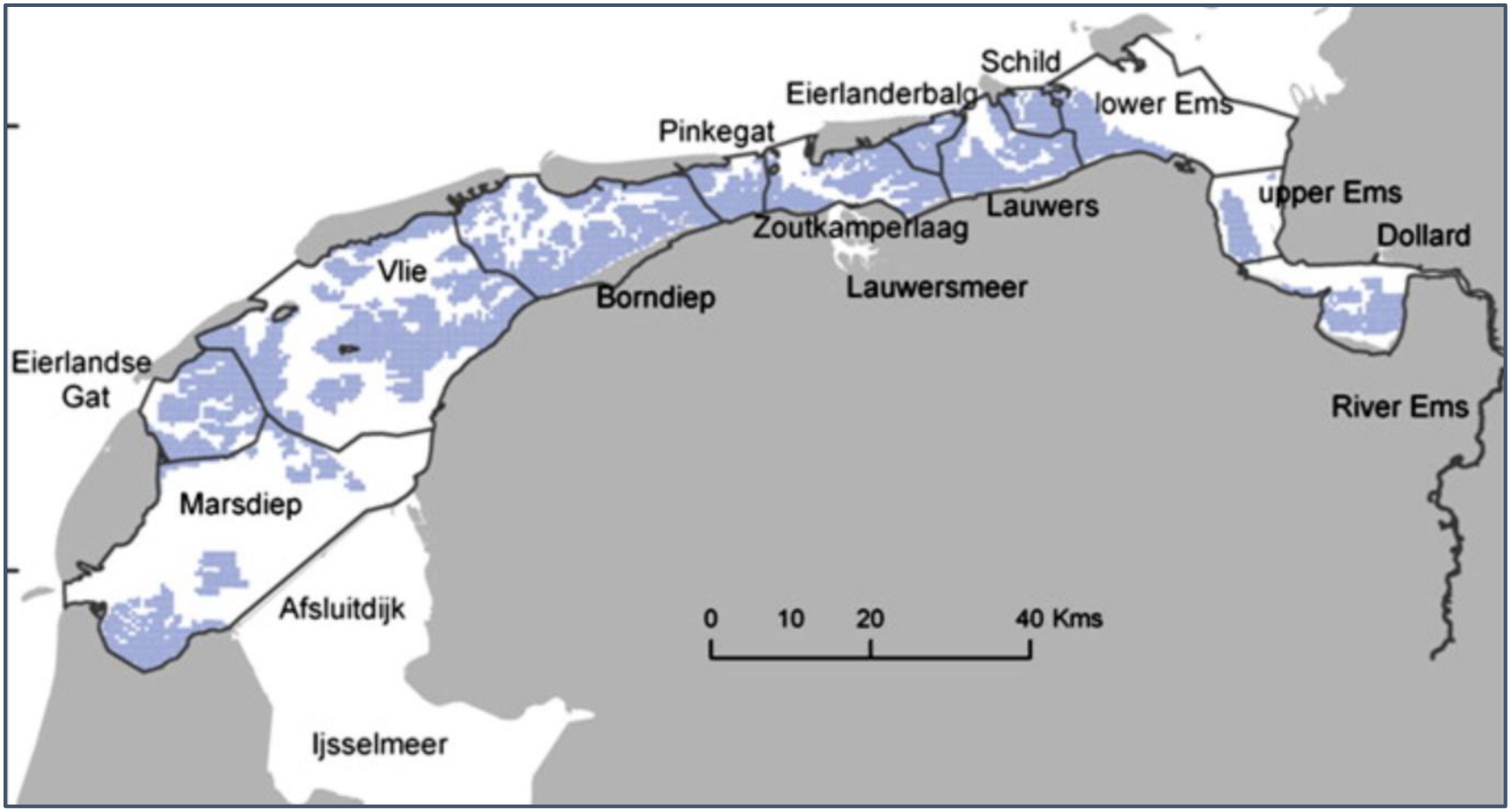
Universiteit Utrecht (hoogleraar, afdeling Fysische Geografie)

Leeuwarden, 19 november 2018

De Staat van de Waddenzee

Komberging als maat der dingen

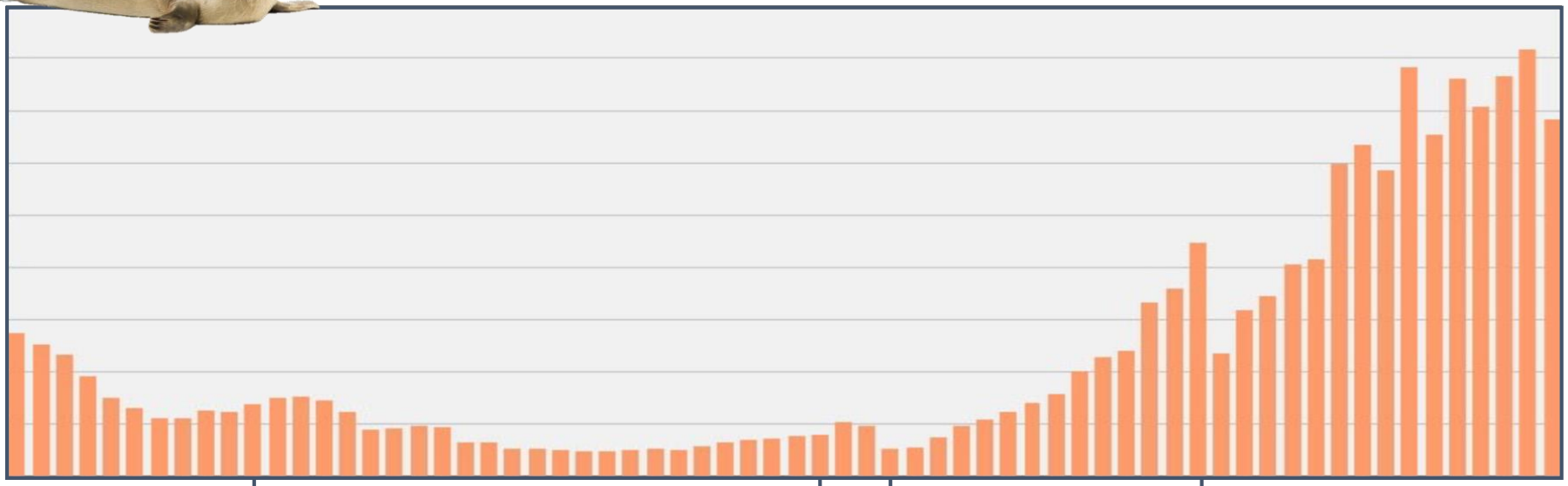


De staat van de Waddenzee

Gewone zeehond

De Staat van de Waddenzee

Aantal gewone zeehonden in de NL Waddenzee (1952-2017)



20% sterfte per jaar
door jacht
rond 1950

Jachtverbod
1965

Introductie PCBs
(verlaagde reproductie)

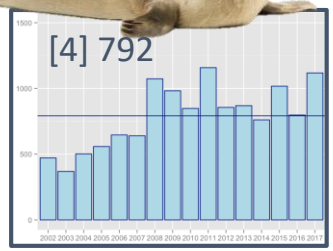
PCB verbod
1985

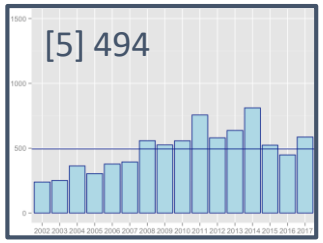
Uitbraak virusziekte
1988

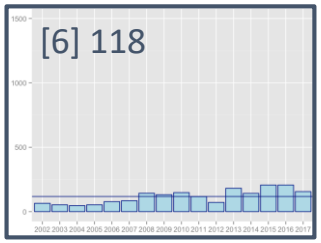
Uitbraak virusziekte
2002

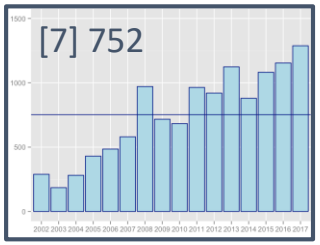
De Staat van de Waddenzee

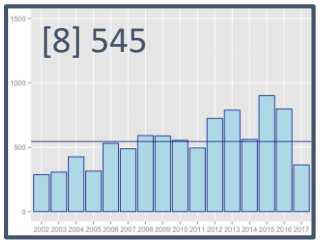
Aantal gewone zeehonden in de NL Waddenzee (2002-2017)

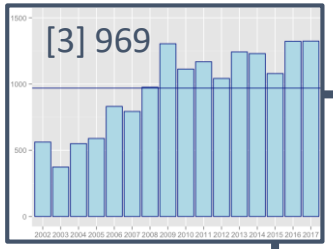


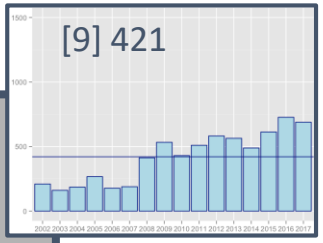


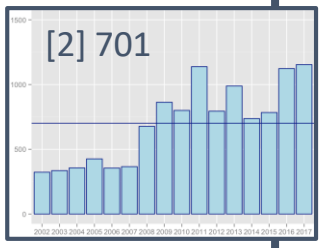


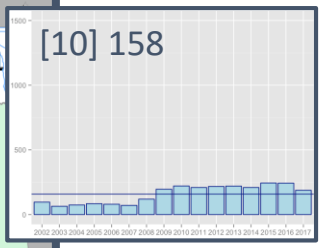


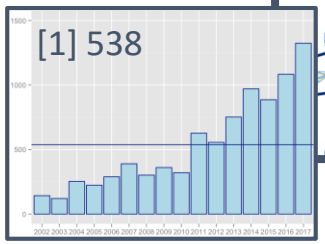


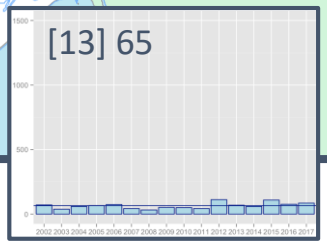


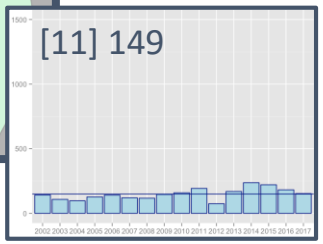


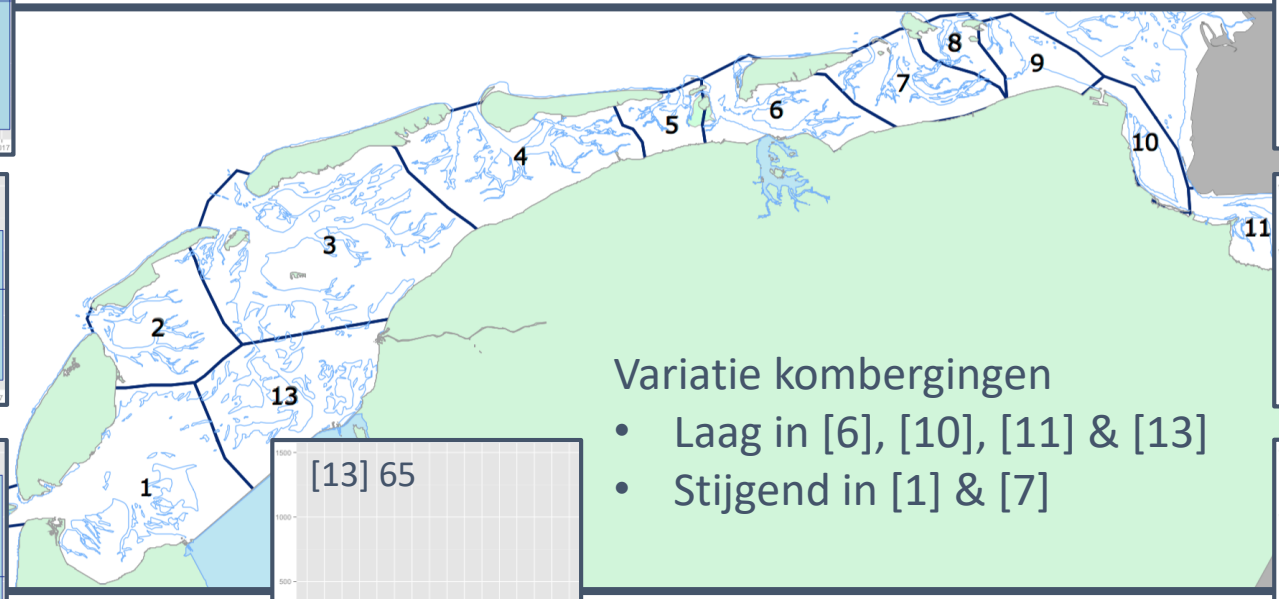










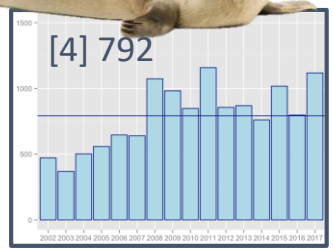


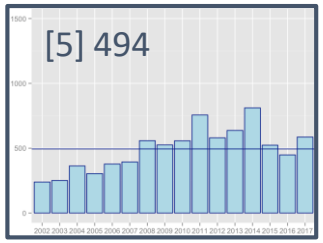
Variatie kombergingen

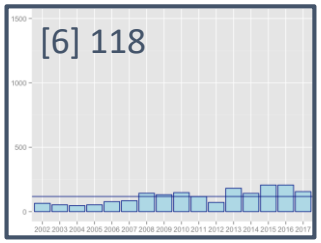
- Laag in [6], [10], [11] & [13]
- Stijgend in [1] & [7]

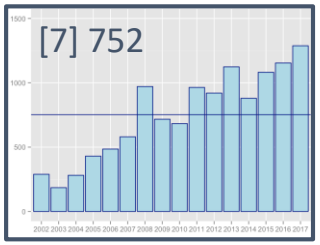
De Staat van de Waddenzee

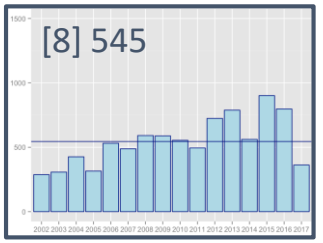
Aantal gewone zeehonden in de NL Waddenzee (2002-2017)

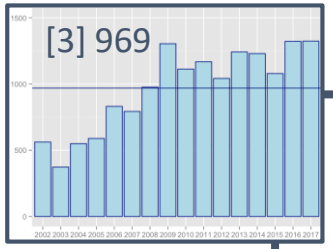


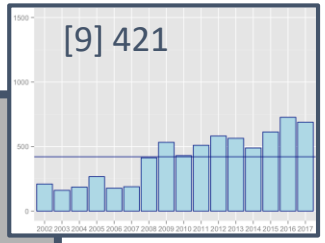


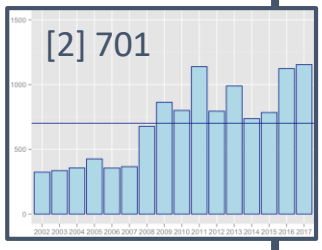


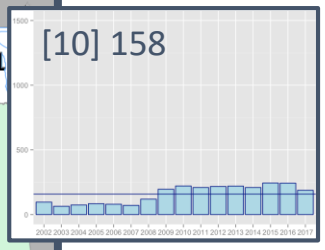


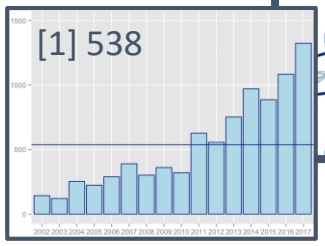


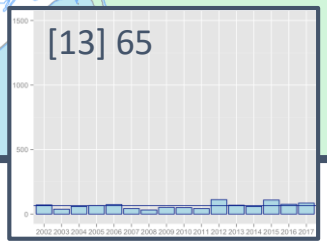


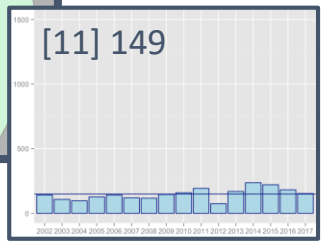


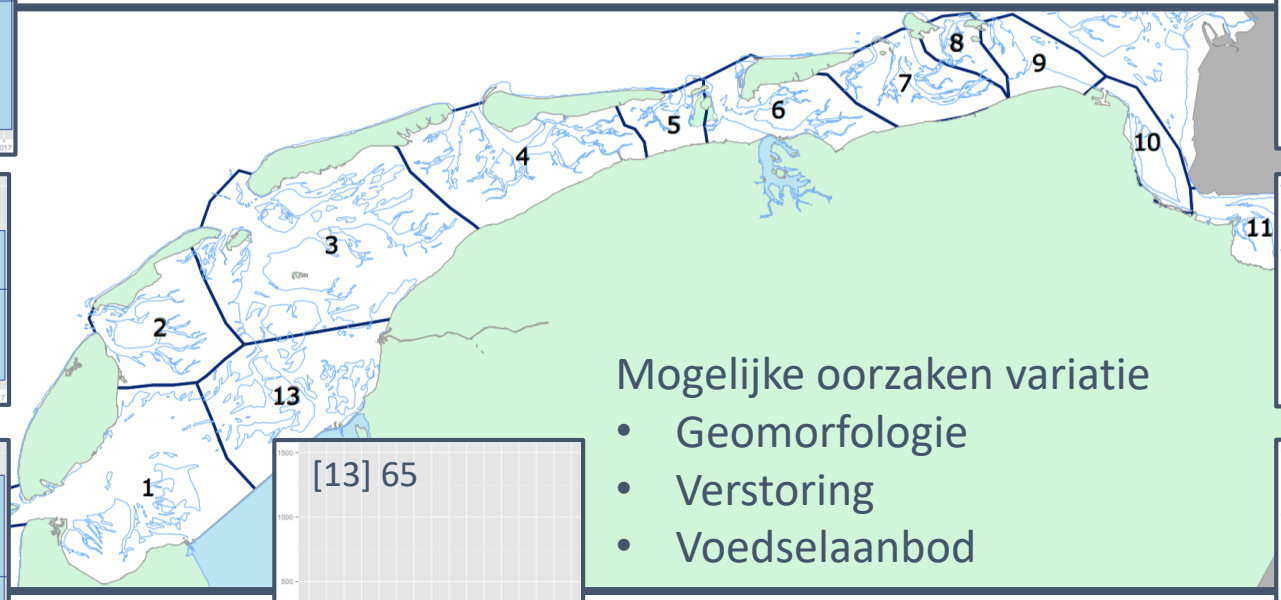










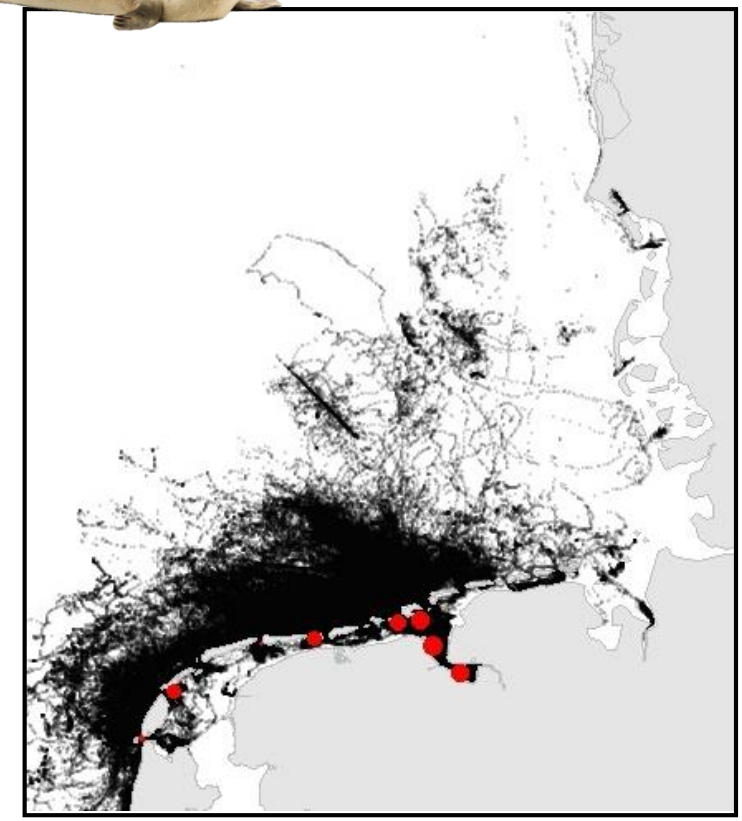


Mogelijke oorzaken variatie

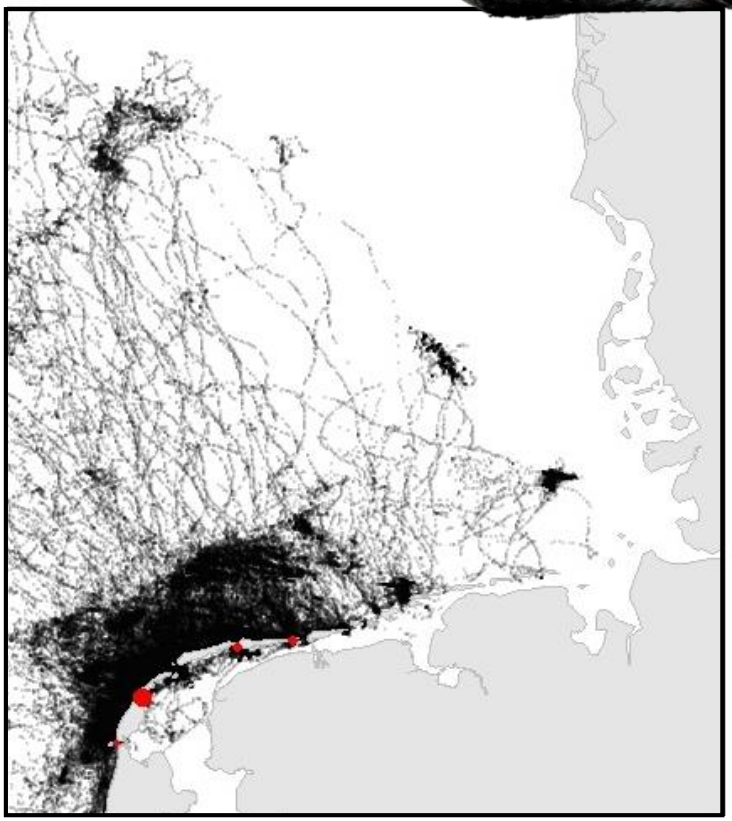
- Geomorfologie
- Verstoring
- Voedselaanbod

De Staat van de Waddenzee (& Noordzee!)

Gewone zeehond



Grijze zeehond

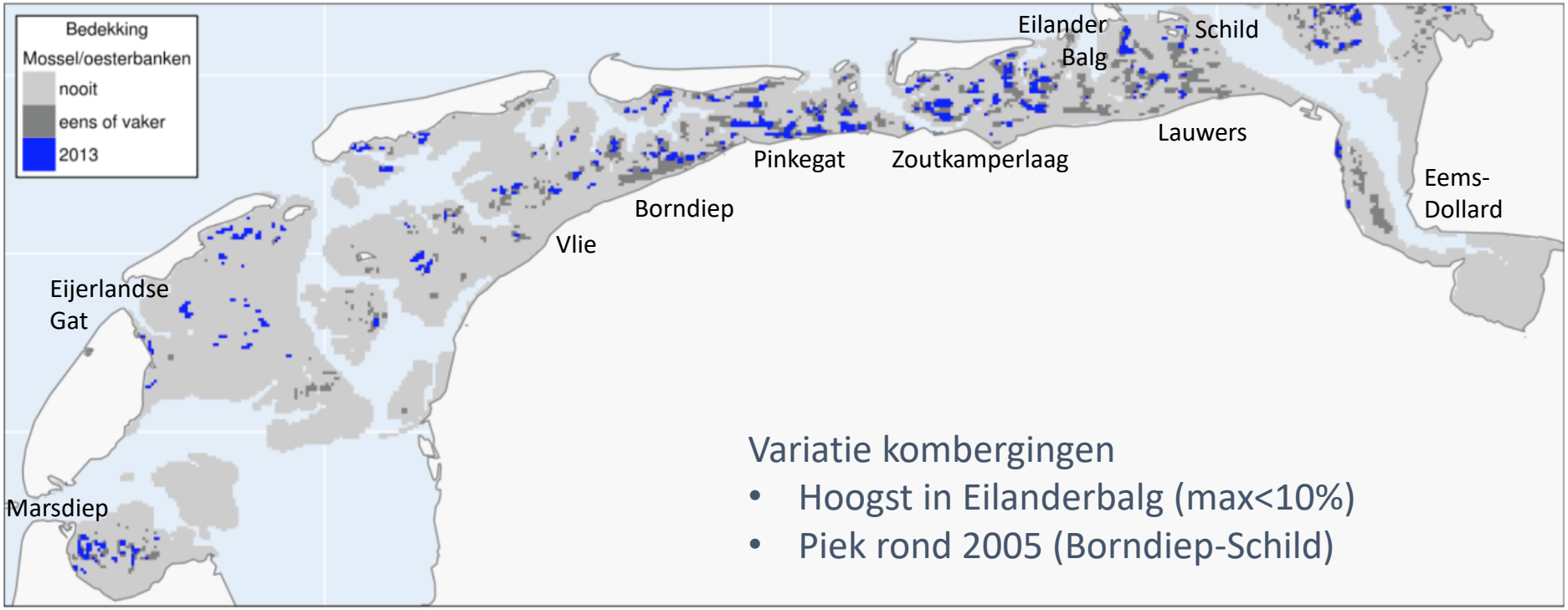


De Staat van de Waddenzee

Mossel- & Oesterbanken

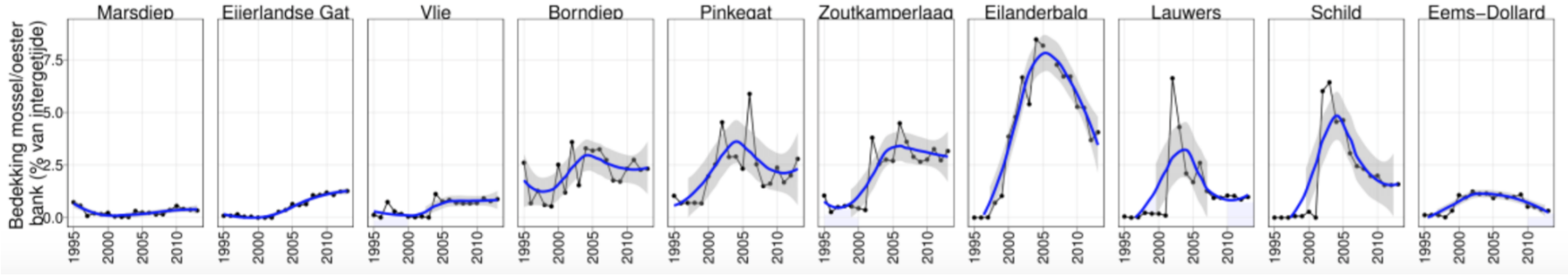
De Staat van de Waddenzee

Bedekking wadplaten door mossel- & oesterbanken (1995-2013)



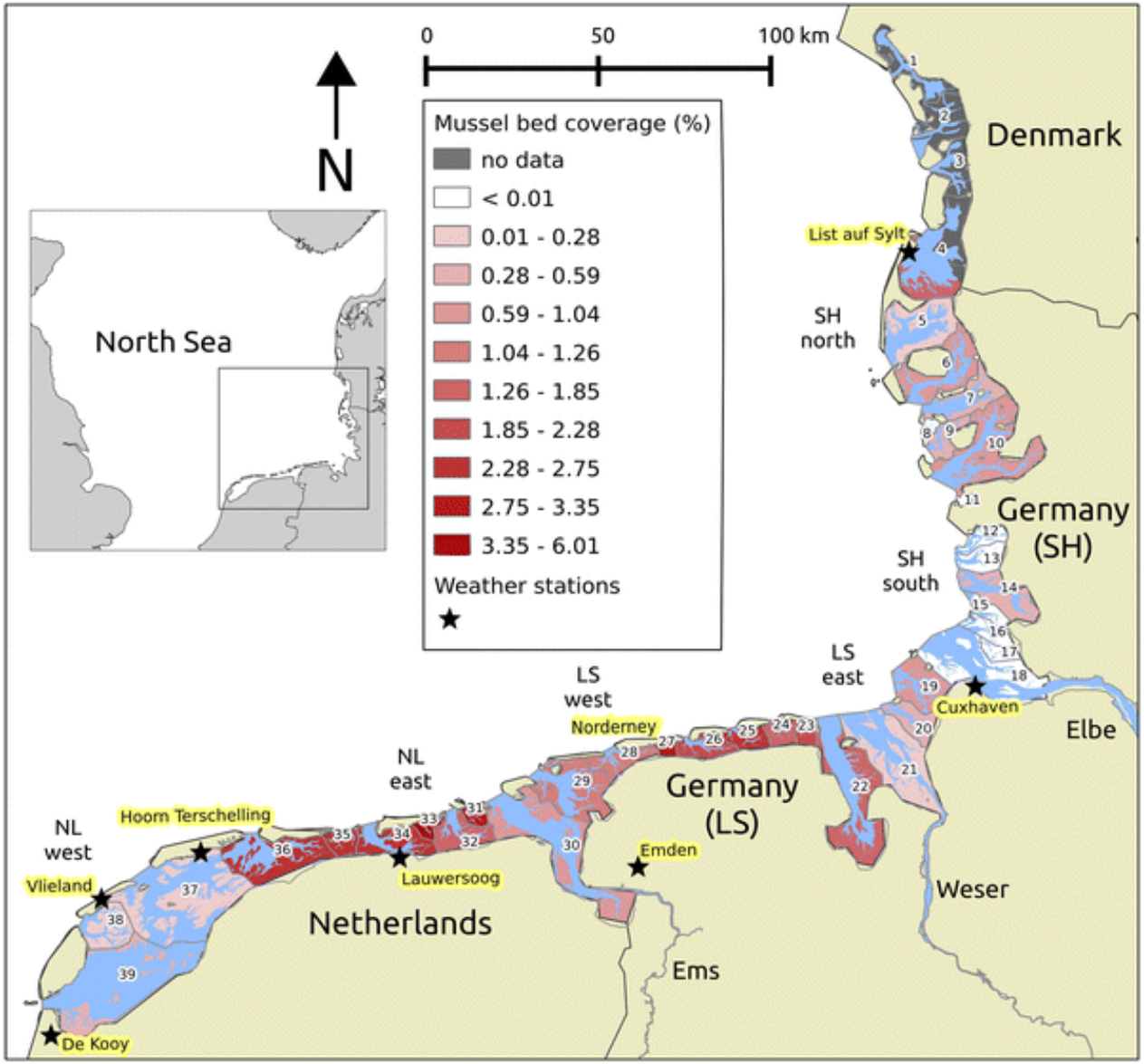
Variatie kombergingen

- Hoogst in Eilanderbalg (max<10%)
- Piek rond 2005 (Borndiep-Schild)



De Staat van de Waddenzee

Bedekking wadplaten door mosselbanken (1995-2013)

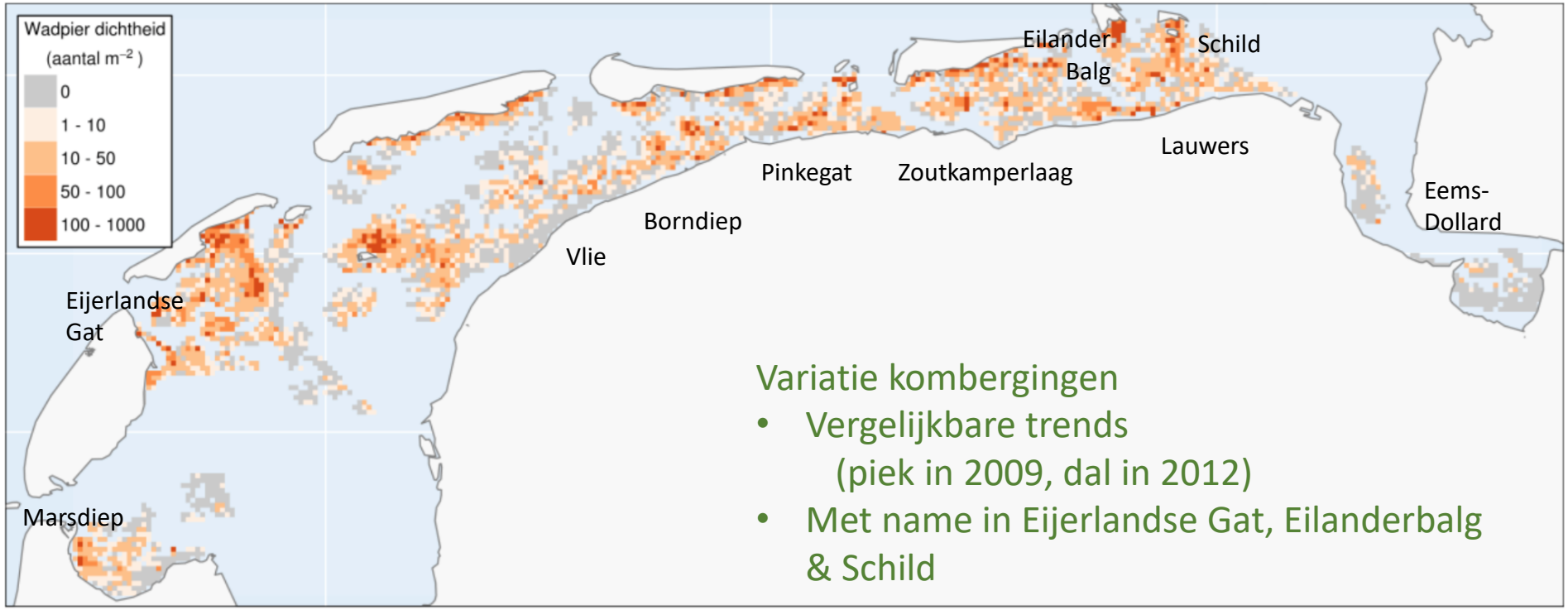


De Staat van de Waddenzee

Wadpieren

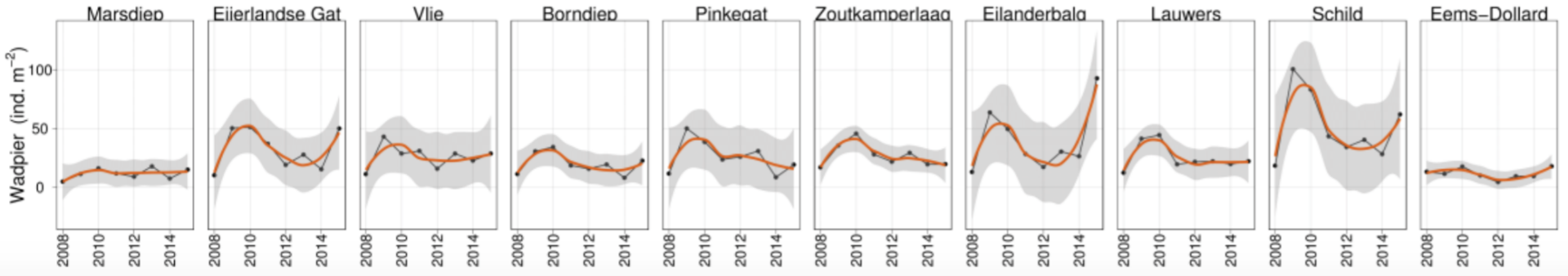
De Staat van de Waddenzee

Dichtheid wadpieren (2006-2013)



Variatie kombergingen

- Vergelijkbare trends
  (piek in 2009, dal in 2012)
- Met name in Eijerlandse Gat, Eilanderbalg & Schild

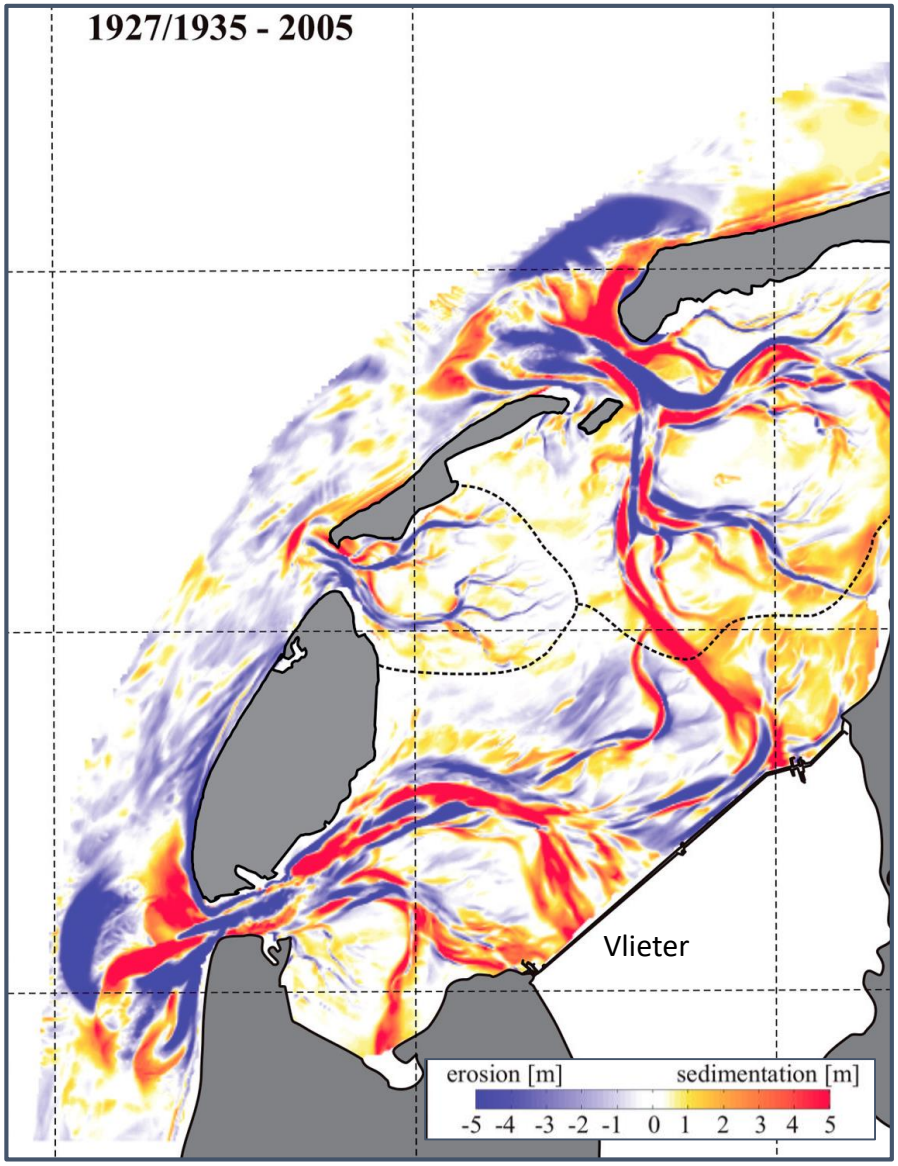


De Staat van de Waddenzee

Geomorfologie

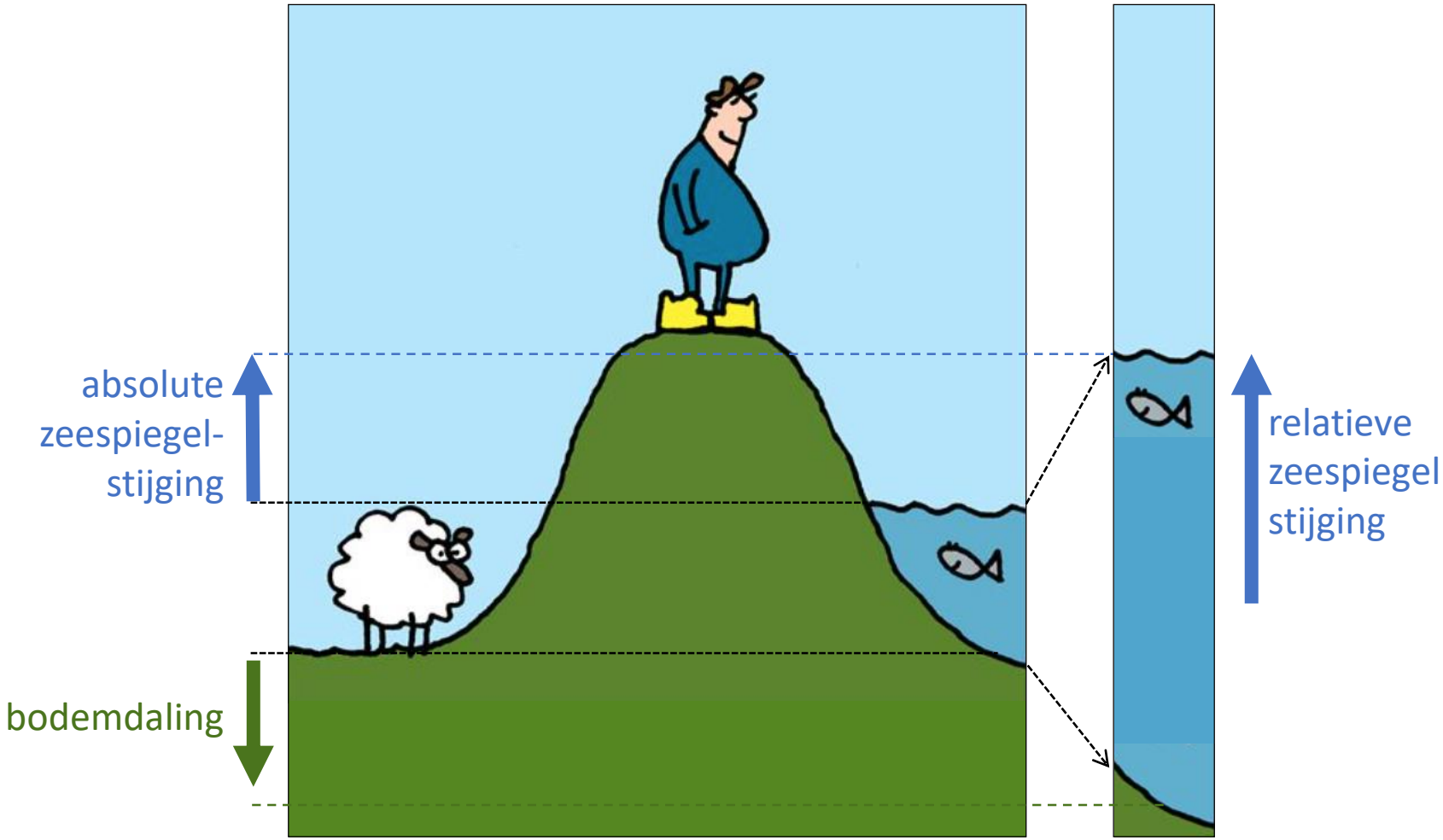
De Staat van de Waddenzee

Geomorfologie



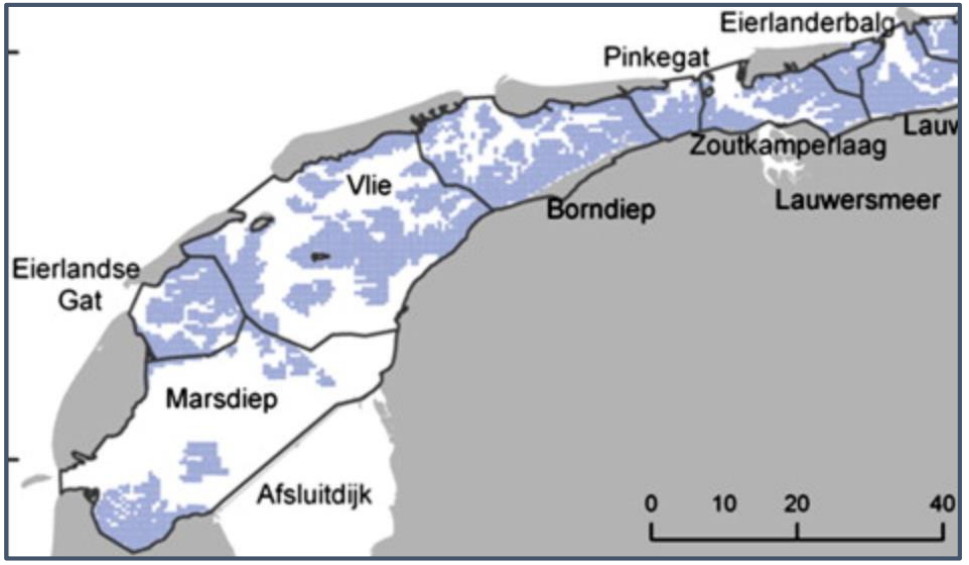
De Staat van de Waddenzee

Relatieve zeespiegelstijging als som van absolute zeespiegelstijging en bodemdaling

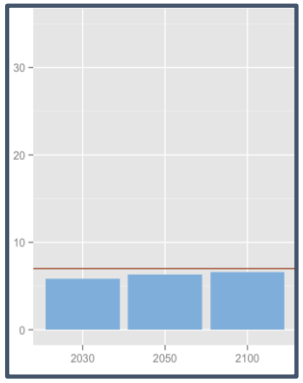


De Staat van de Waddenzee

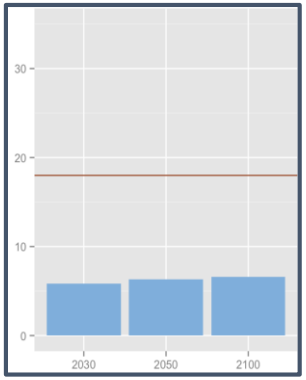
Relatieve zeespiegelstijging als som van absolute zeespiegelstijging en bodemdaling in 2030, 2050 en 2100 bij RCP4.5 klimaatscenario



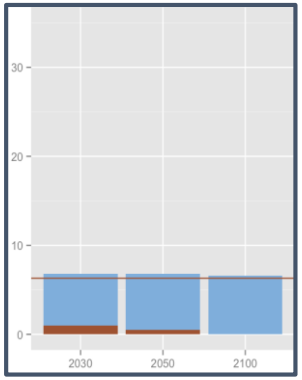
Marsdiep



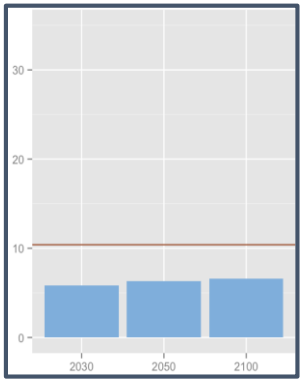
Eijerlandse Gat



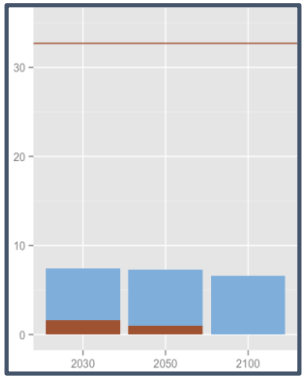
Vlie



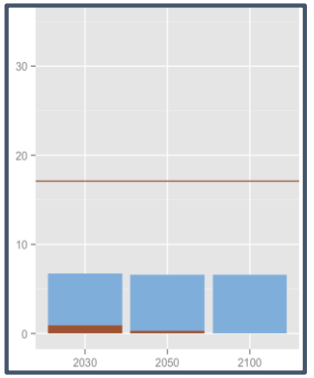
Borndiep



Pinkegat



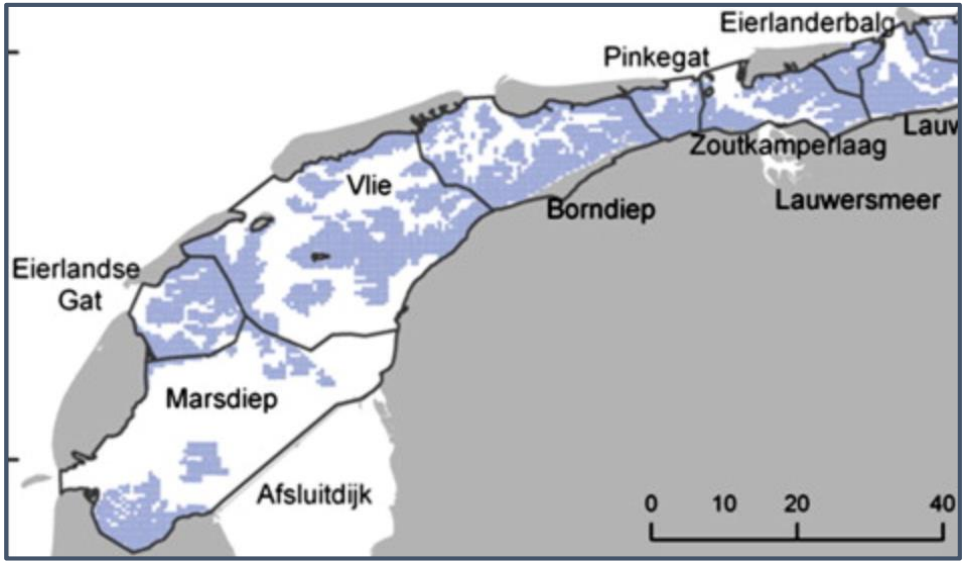
Zoutkamperlaag



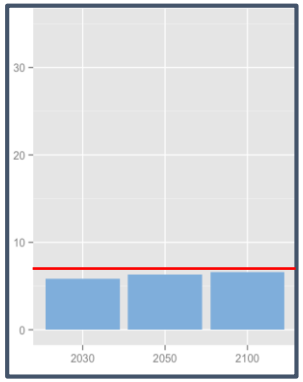
De Staat van de Waddenzee

Relatieve zeespiegelstijging als som van absolute zeespiegelstijging en bodemdaling in 2030, 2050 en 2100 bij RCP4.5 klimaatscenario

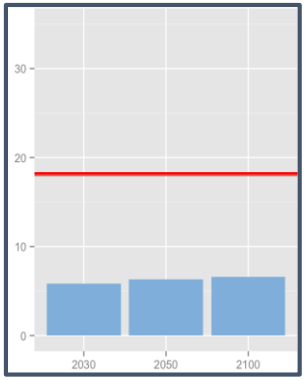
Kritische grens sedimentatiesnelheid (start verdrinking)



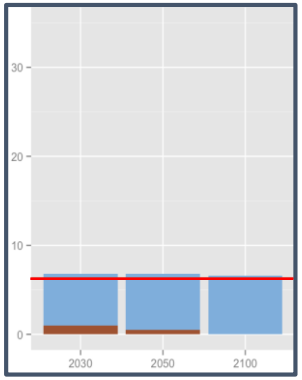
Marsdiep



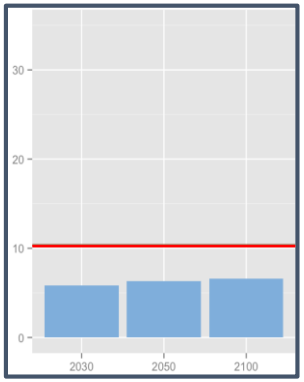
Eijerlandse Gat



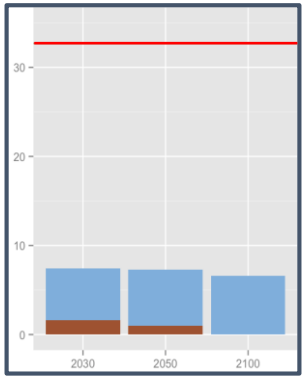
Vlie



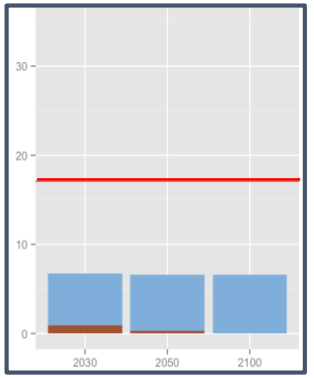
Borndiep



Pinkegat



Zoutkamperlaag



De Staat van de Waddenzee
Geomorfologie

Kritische grens sedimentatiesnelheid
(start verdrinking)

De Staat van de Waddenzee

Dank voor uw aandacht!