

The future of the Wadden Sea sediment fluxes: still keeping PACE with sea level rise?

Introduction to the GeoRisk project PACE.

PIs

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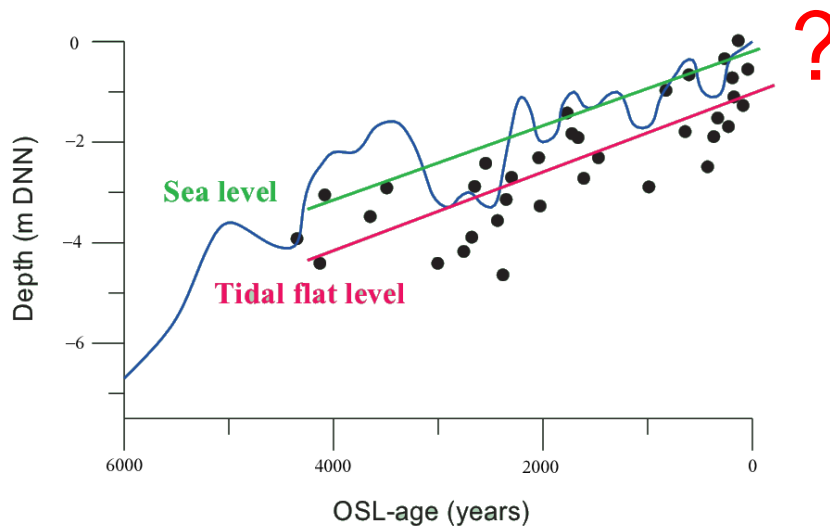
Adaptation of the Wadden Sea to sea level rise

Sediment must be pumped into the Wadden Sea.

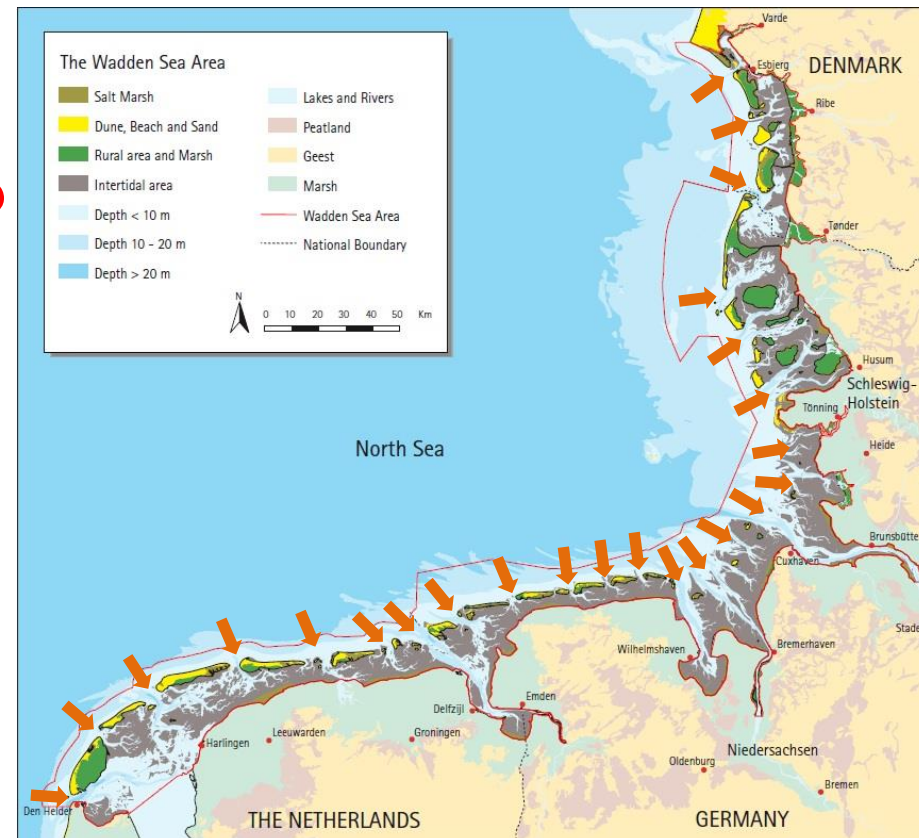
Is the pumping increasing on demand?

How does the pump work?

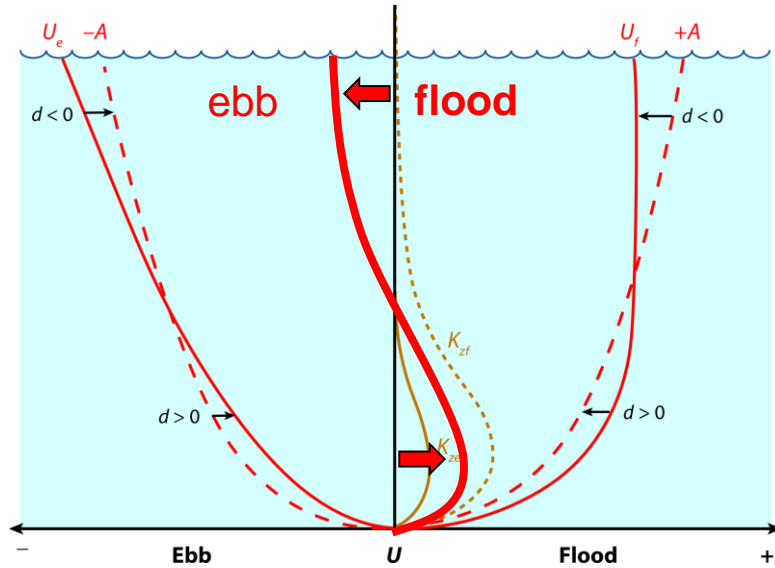
How does it depend on external factors (climate change)?



Source: M. Pejrup, Copenhagen Univ.



How does the Wadden Sea sediment pump work?



MacCready & Geyer (2010)

Sediment profiles in Lister Deep (2008)

Key trick: Get the hydrodynamics right!

