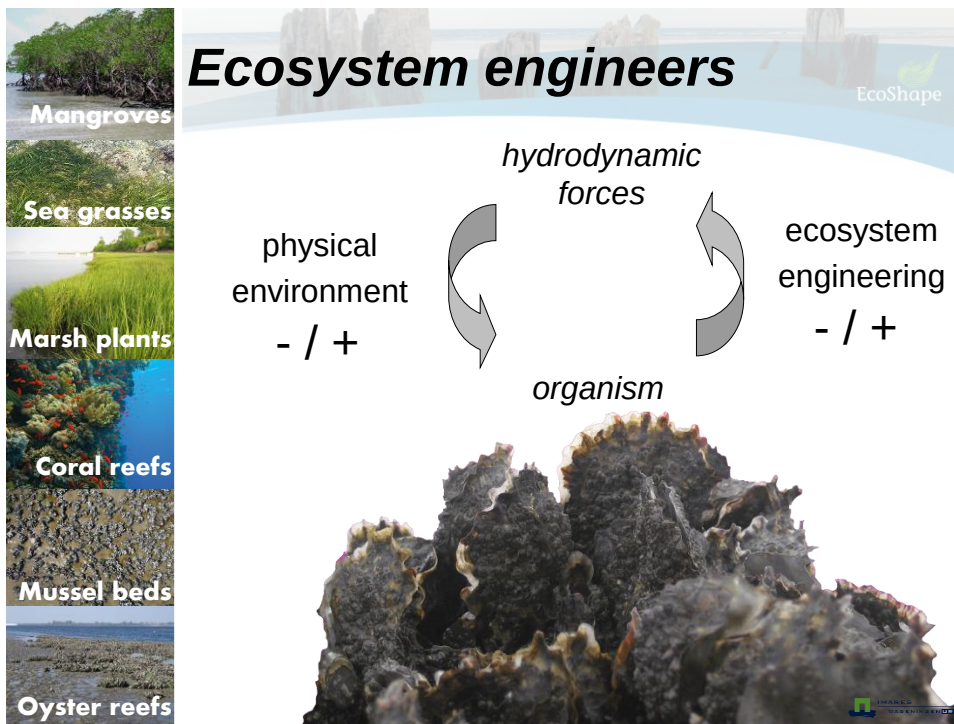


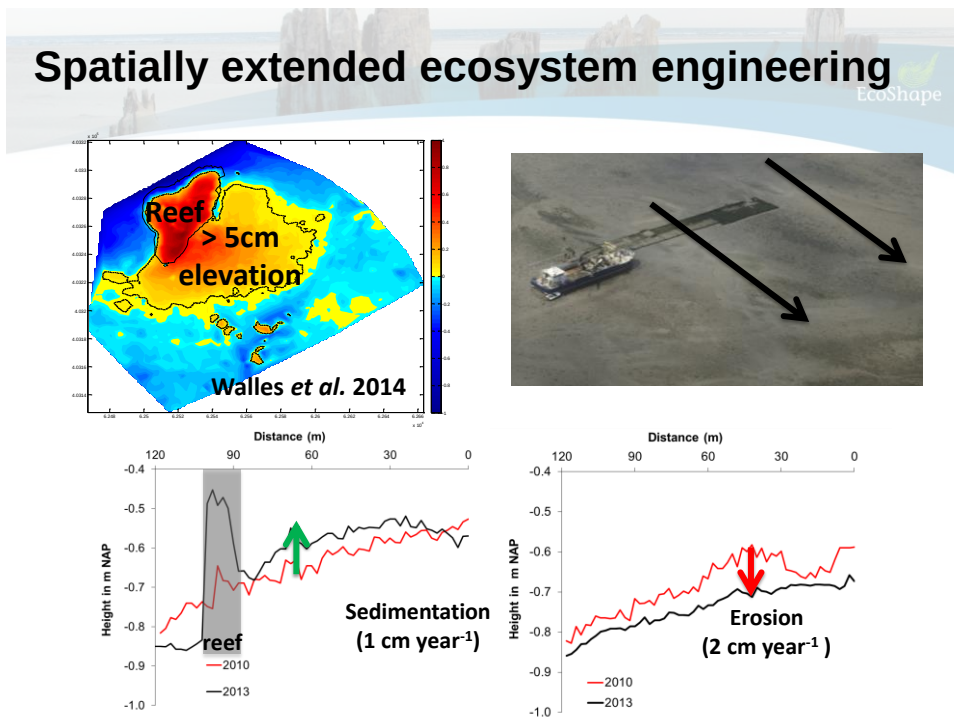
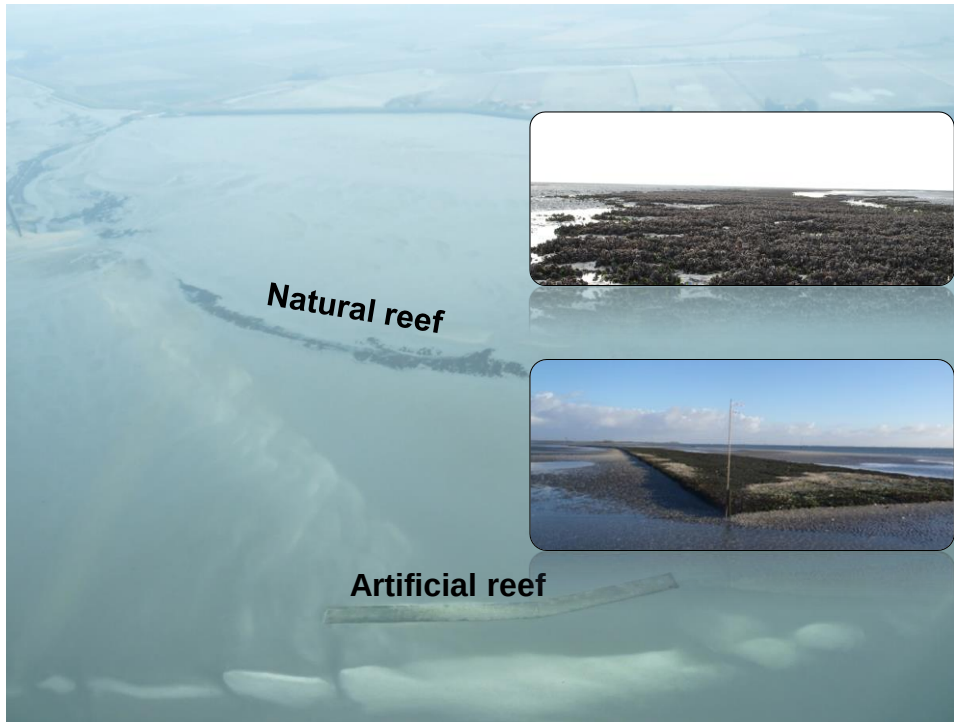


The role of biogenic reefs for coastal adaptation and conservation

Brenda Walles

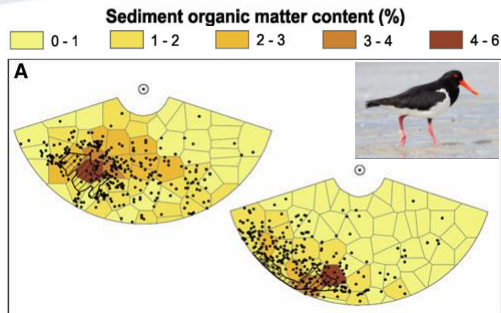
Aad Smaal, Bram van Prooijen & Tom Ysebaert





Consumer-resource interactions are affected by reefs far beyond the boundaries of the reefs

(Zee *et al.* 2012, Donadi *et al.* 2013)

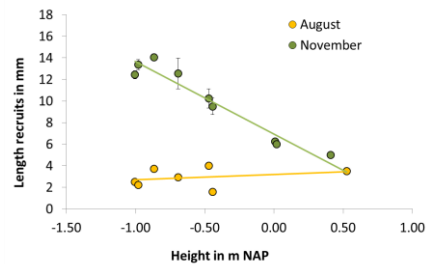
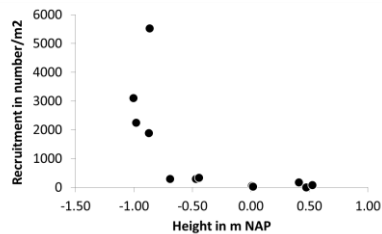
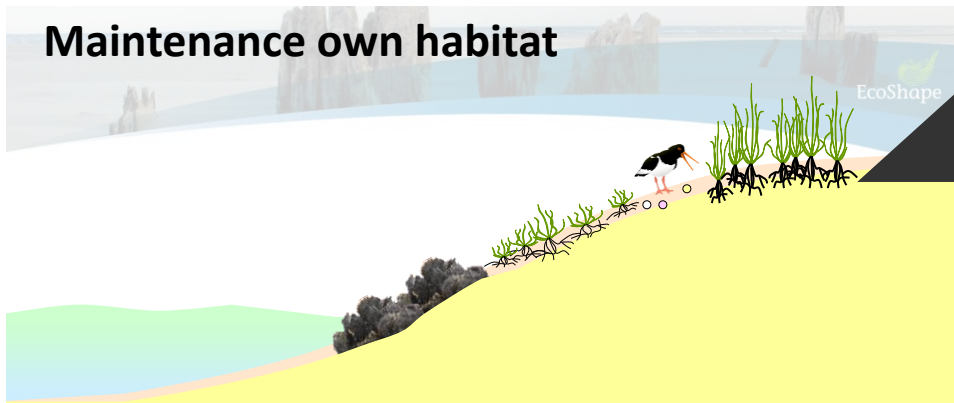


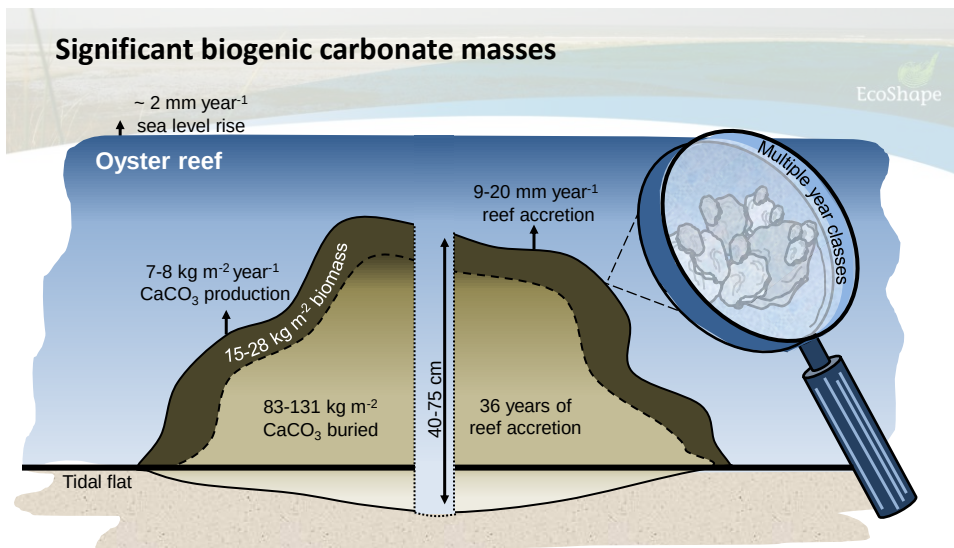
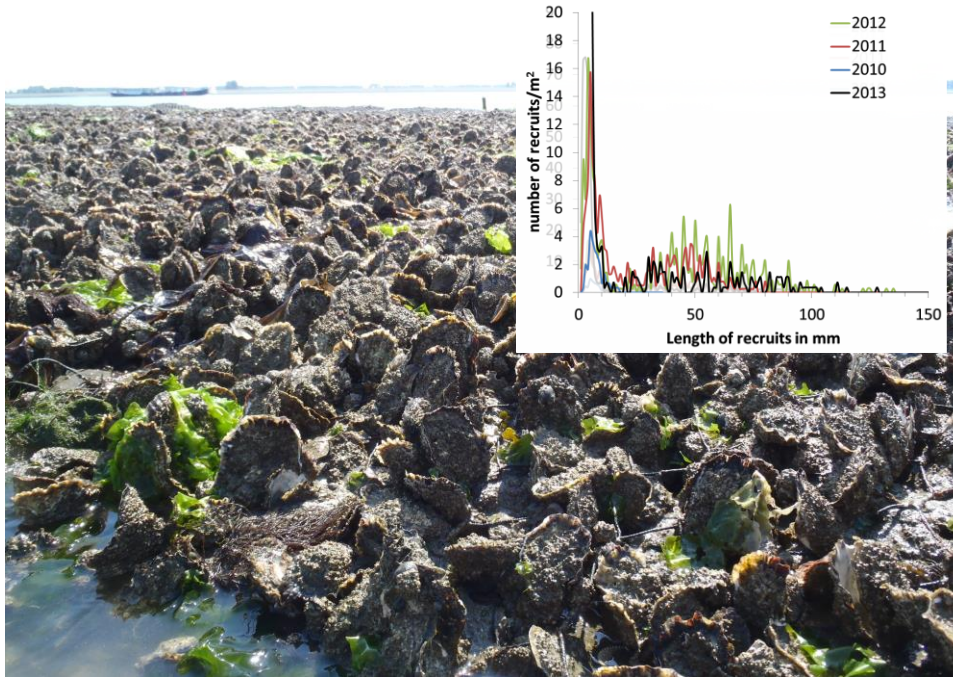
Distribution of sediment organic matter content in relation to the distribution of oystercatchers. Black dots represent the positions of the birds. Zee *et al.* 2012



High densities of cockles coastward of a mussel bed in the intertidal flats of Schiermonnikoog, The Netherlands. Donadi *et al.* 2013

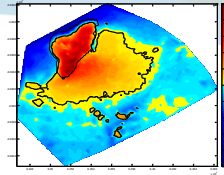
Maintenance own habitat





Oyster reefs:

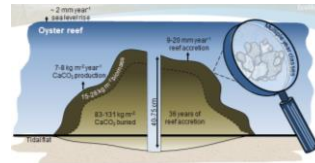
❑ Protect tidal flats against erosion



❑ Maintain their own structure



❑ Significant biogenic carbonate masses



Questions?



References

- Donadi *et al.* 2013. *Ecology* 94: 489–498.
- Walles *et al.* 2014. *Estuaries and Coasts* DOI: 10.1007/s12237-014-9860-z
- Zee *et al.* 2012. *Ecosystems* 15: 664–673.