



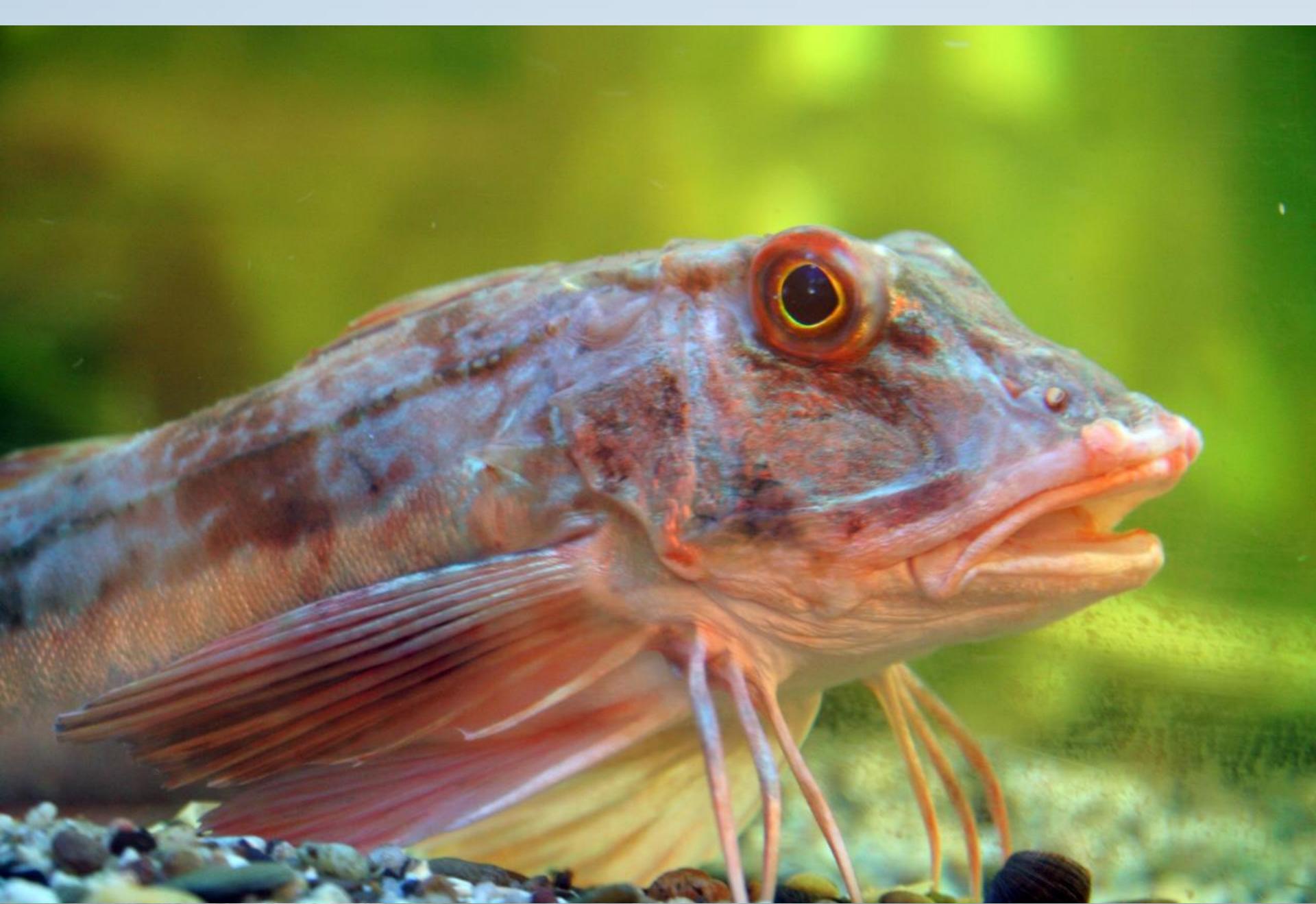
Gregor Scheiffarth, Kai Eskildsen

Subtidal habitats in the Wadden Sea



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Foto: Reno Lottmann

Common Scooter

bivalves

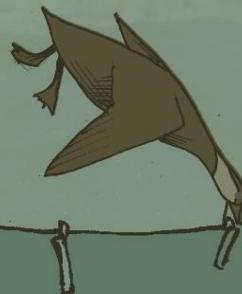
Ensis leei

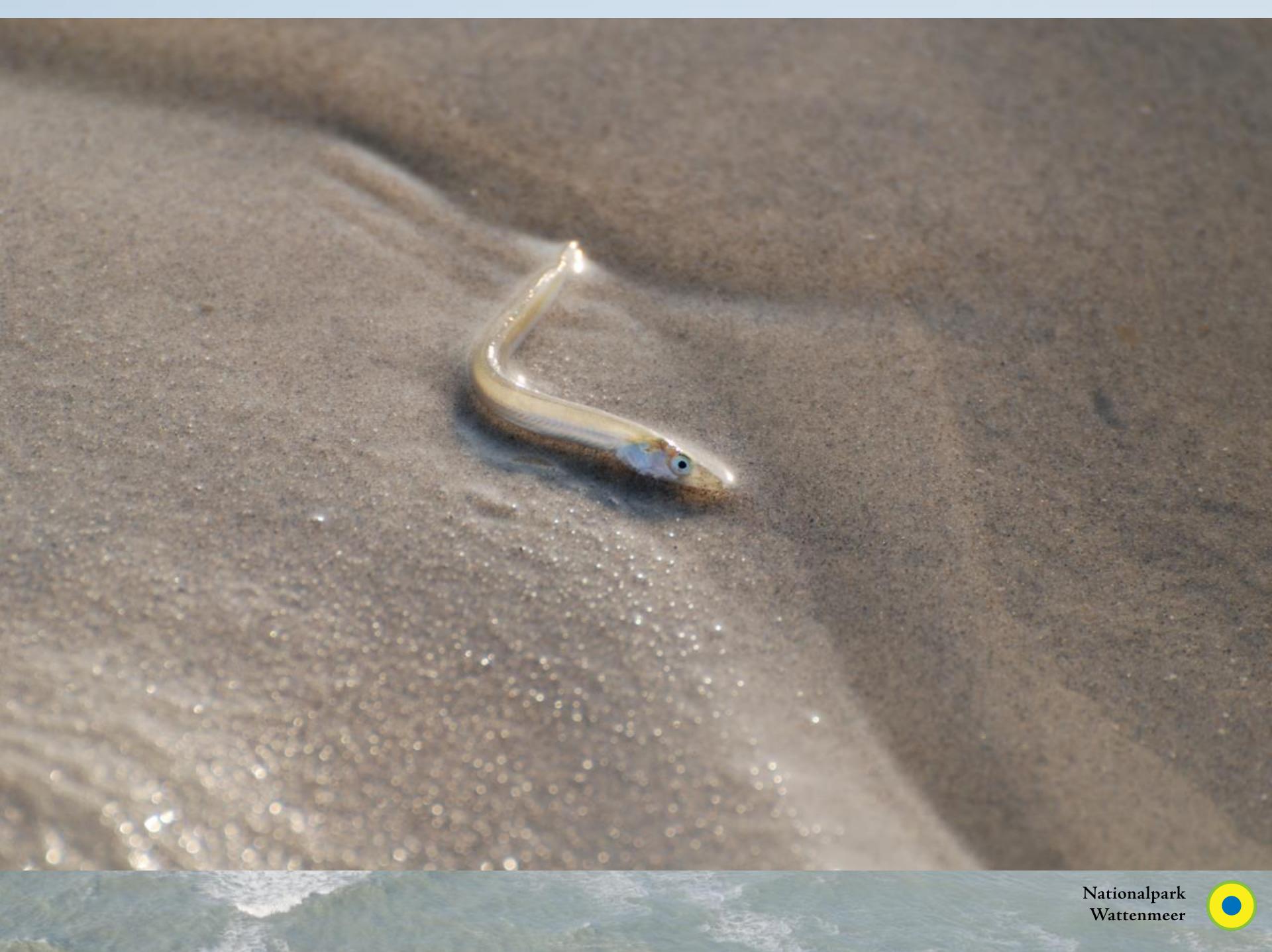


Spisula subtruncata



Fotos: Hans Hillewaert





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2a



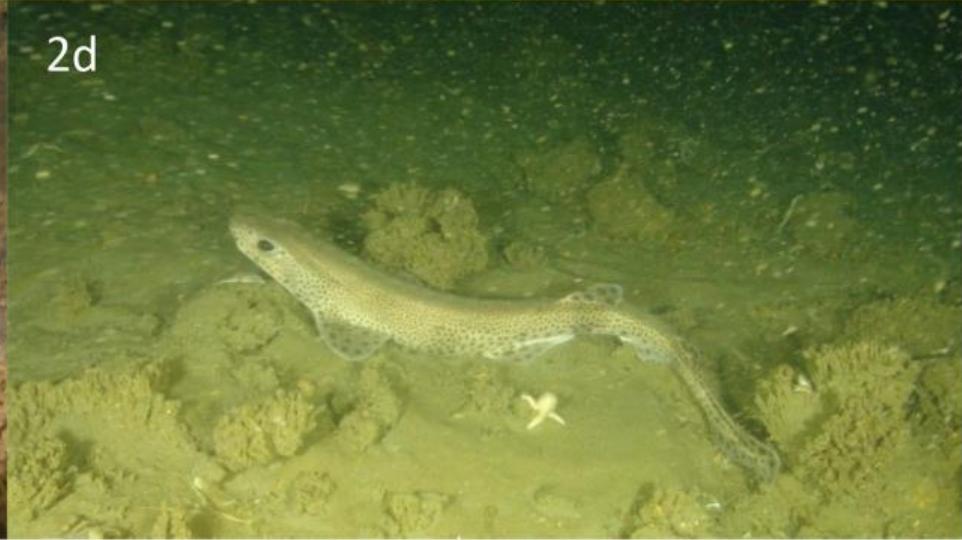
2b



2c



2d



van der Reijden, et al. (2019). Journal of Sea Research, 144, 85–94.
<https://doi.org/10.1016/j.seares.2018.11.008>

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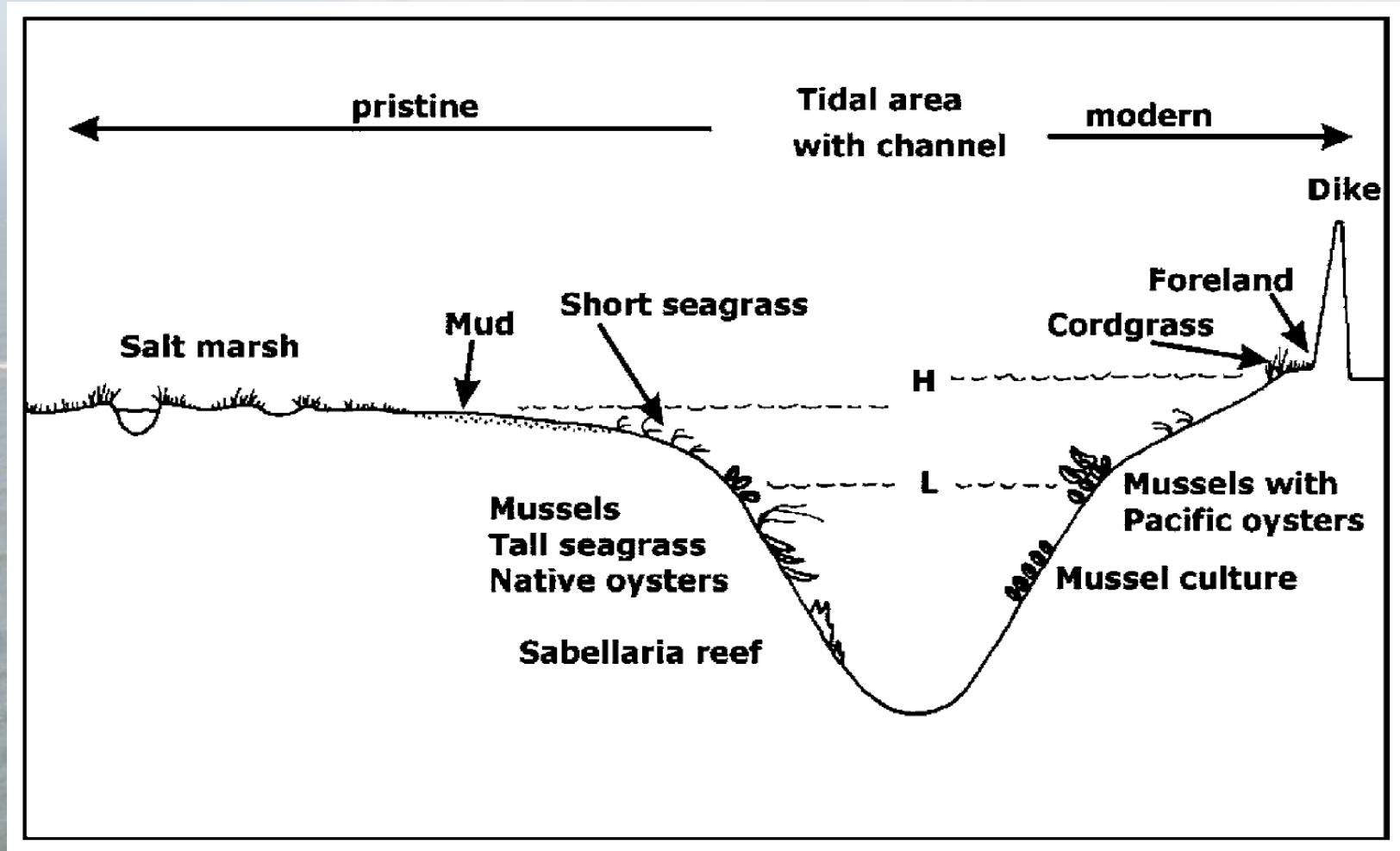
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connectivity



changes over time

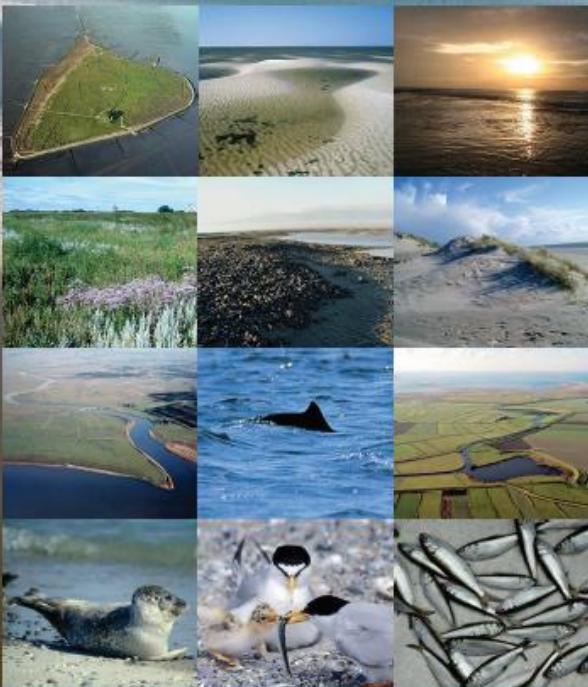


Reise, K. (2005). Helgoland Marine Research, 59(1), 9–21.

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Wadden Sea Plan 2010



The Targets

- an increased area of geomorphologically and biologically undisturbed tidal flats and subtidal areas.
- a natural size, distribution and development of natural mussel beds, *Sabellaria* reefs and *Zostera* fields.



11th Trilateral Governmental Conference
on the Protection of the Wadden Sea,
Westerland/Sylt 18 March 2010

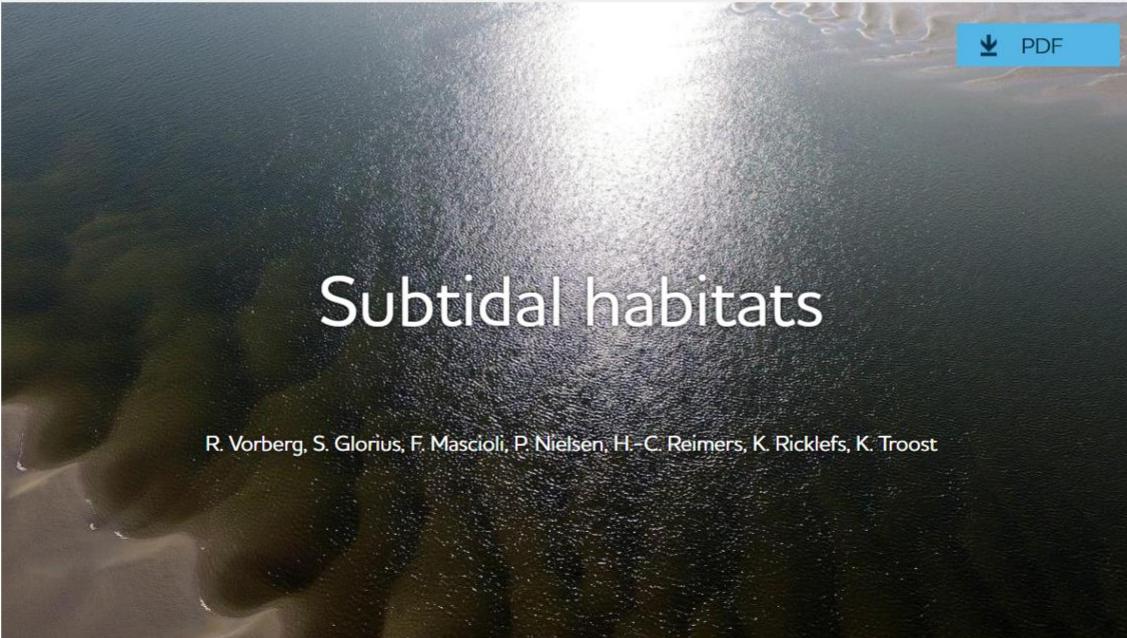
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Wadden Sea Quality Status Report

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and climate](#)[Habitats and
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[PDF](#)

Subtidal habitats

R. Vorberg, S. Glorius, F. Mascioli, P. Nielsen, H.-C. Reimers, K. Ricklefs, K. Troost

Photo: Ralf Vorberg. Intertidal river.

[1. Introduction](#)[2. Status and Trends](#)[3. Assessment](#)[4. Recommendations](#)[5. Summary](#)

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protected habitats

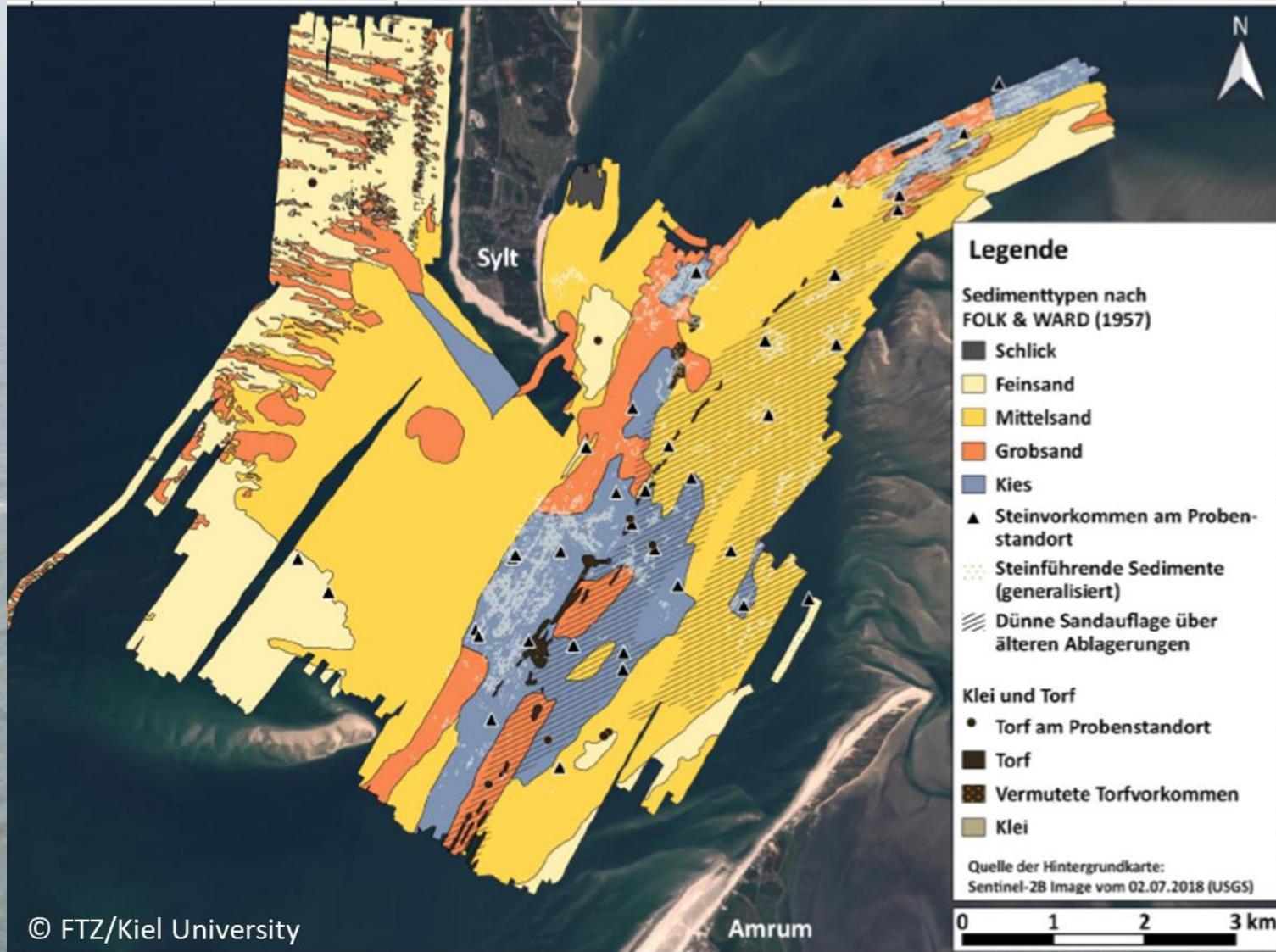
- Natura 2000
 - Sandbanks which are slightly covered by sea water all the time
 - Large shallow inlets and bays
 - Reefs (geogenic and biogenic)
- German federal conservation law
 - Species-rich gravel, coarse sand and shingle beds
- MSFD
 - 10 % of broad habitat types without physical disturbance



Example: Hörnum Deep

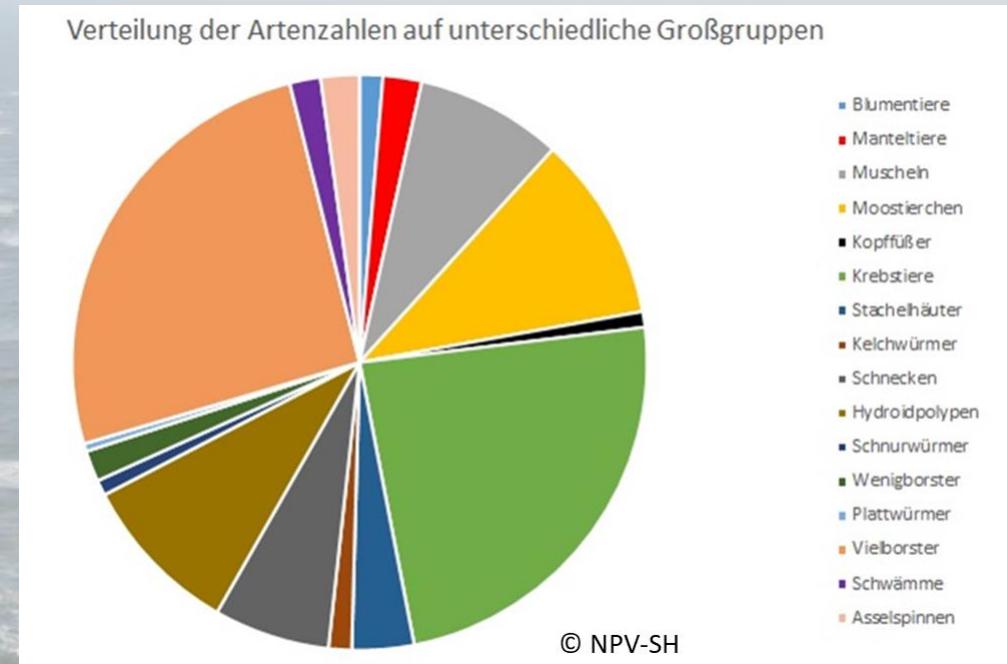


Example: Hörnum Deep



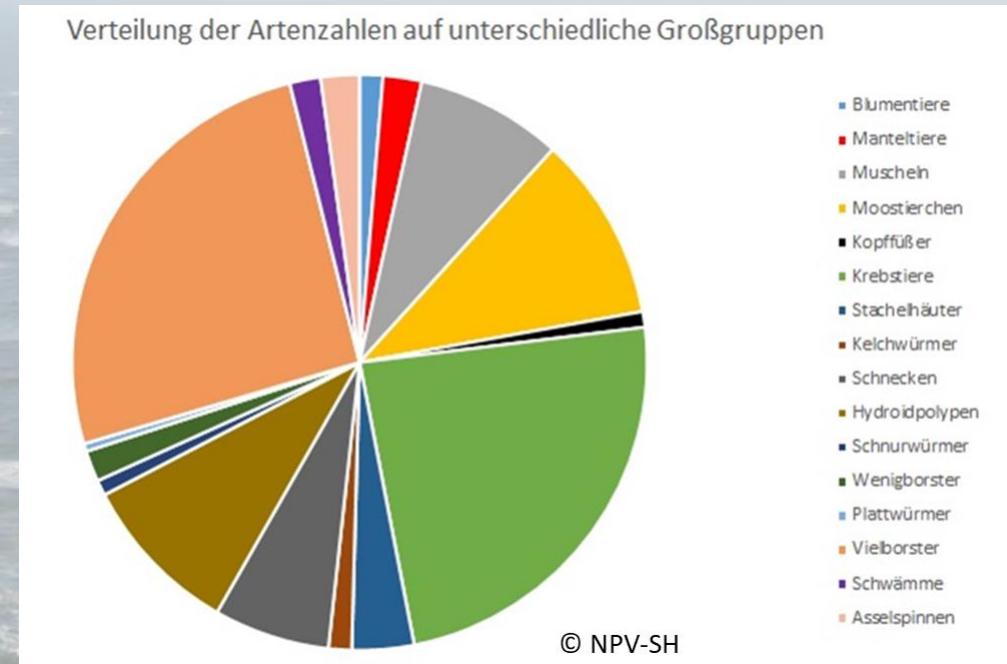
Example: Hörnum Deep

- currently one of the best investigated tidal basins
- 230 benthic species
- highest species numbers in polychaeta (59) crustacea (55) bryozoa (24) and hydrozoa (21)

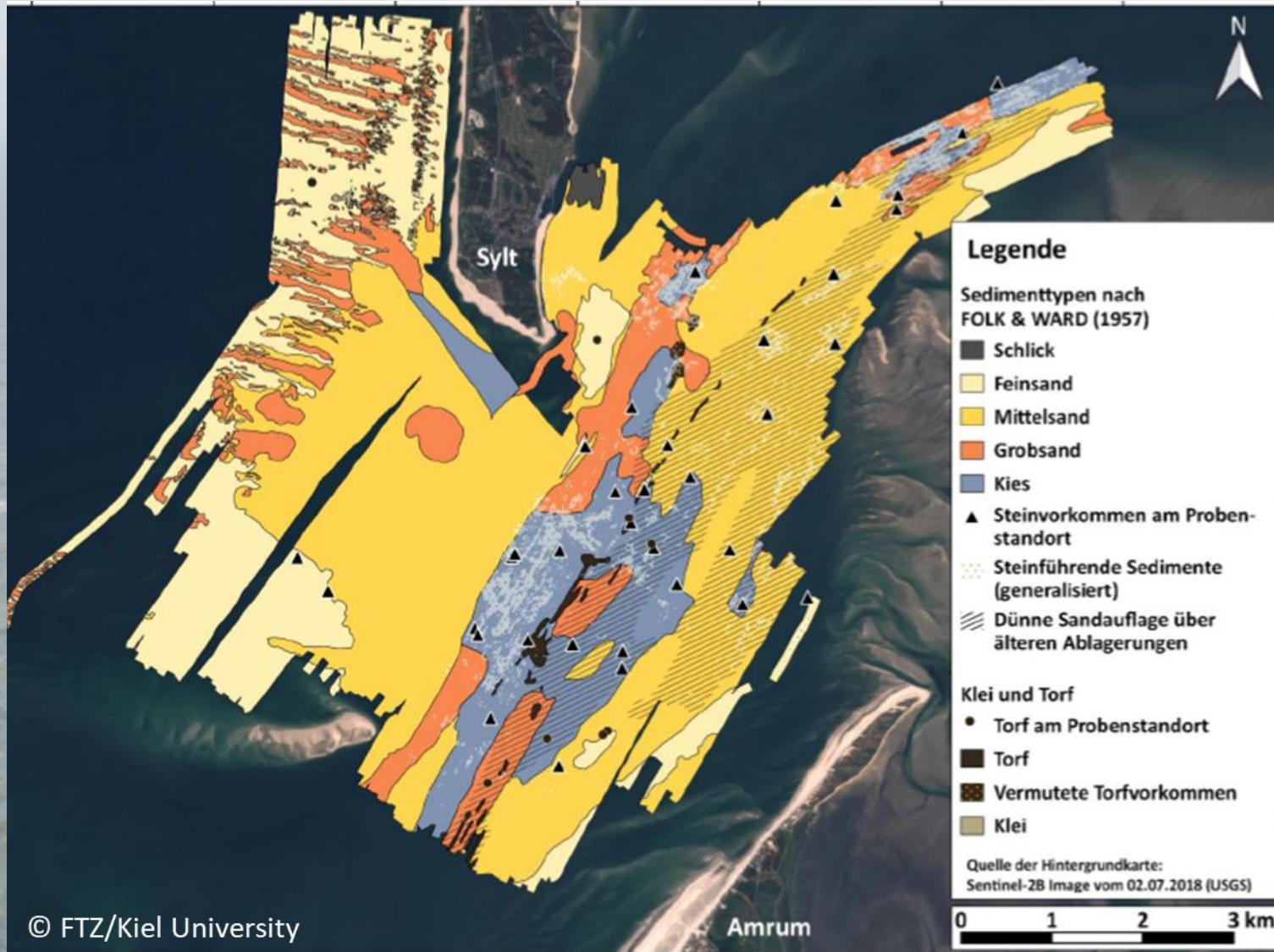


Example: Hörnum Deep

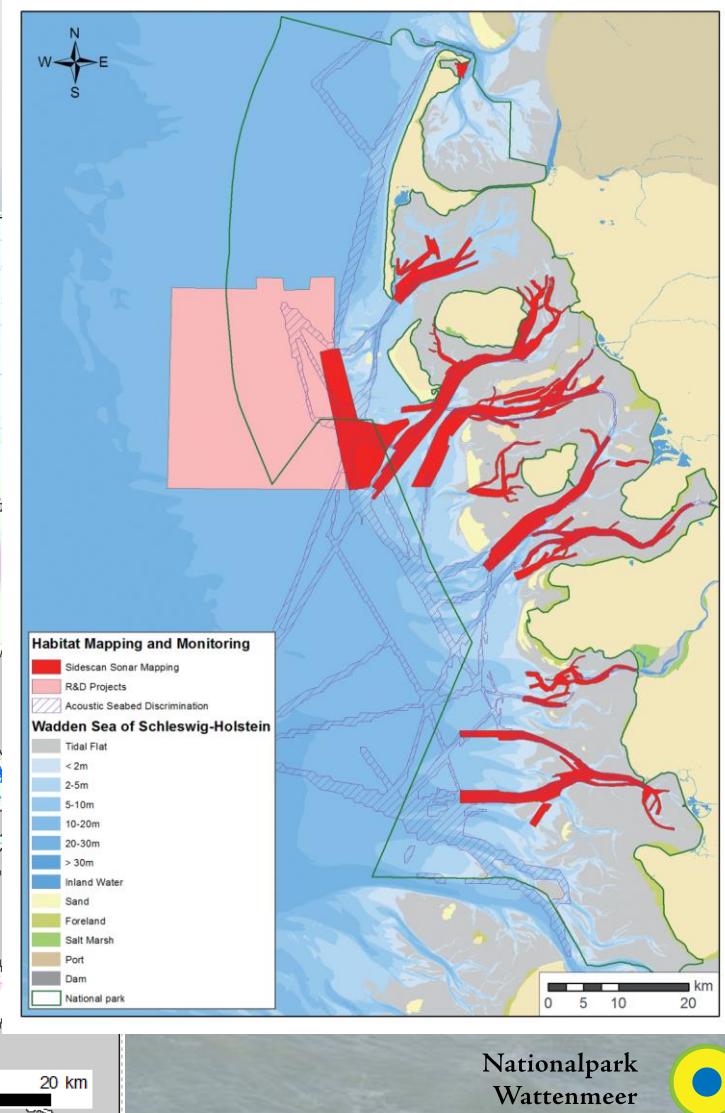
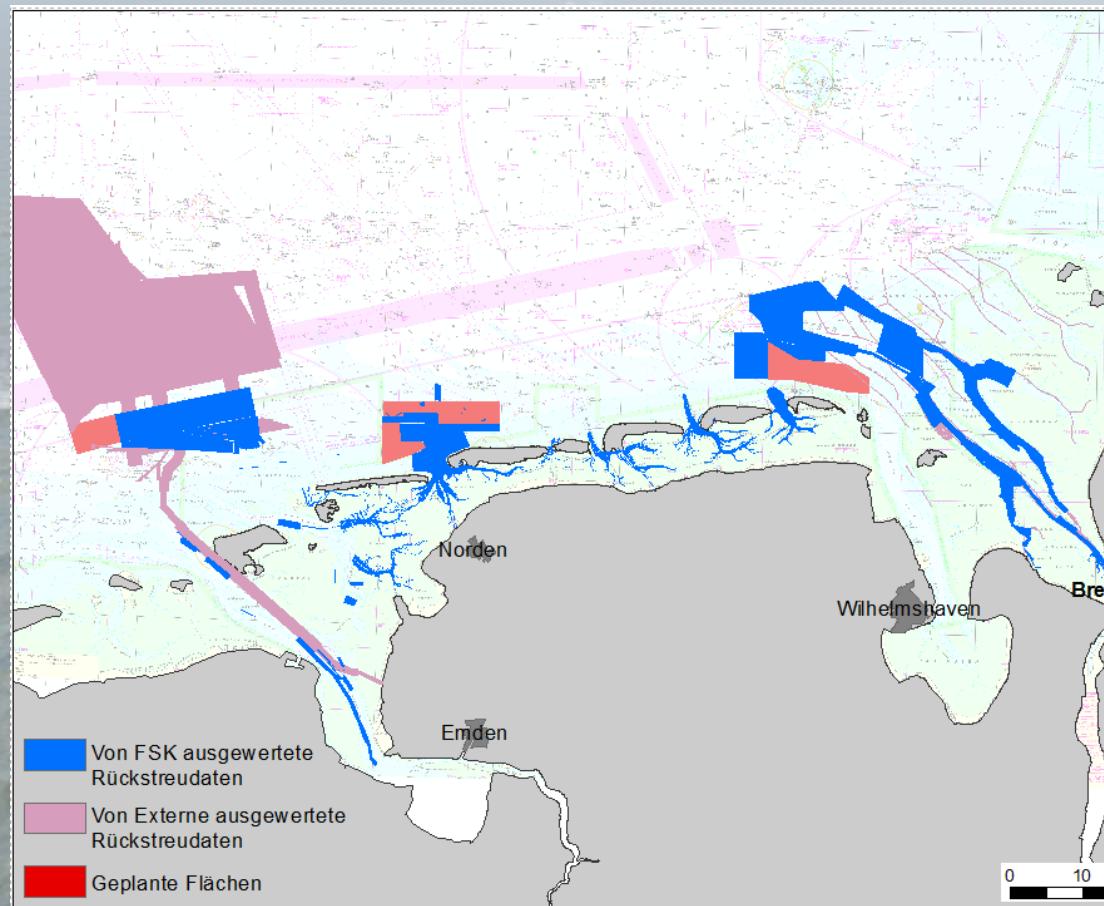
- 31 species on the German Red List
- 43 % of the 230 benthic species are bound to hard substrates
- biodiversity hotspot

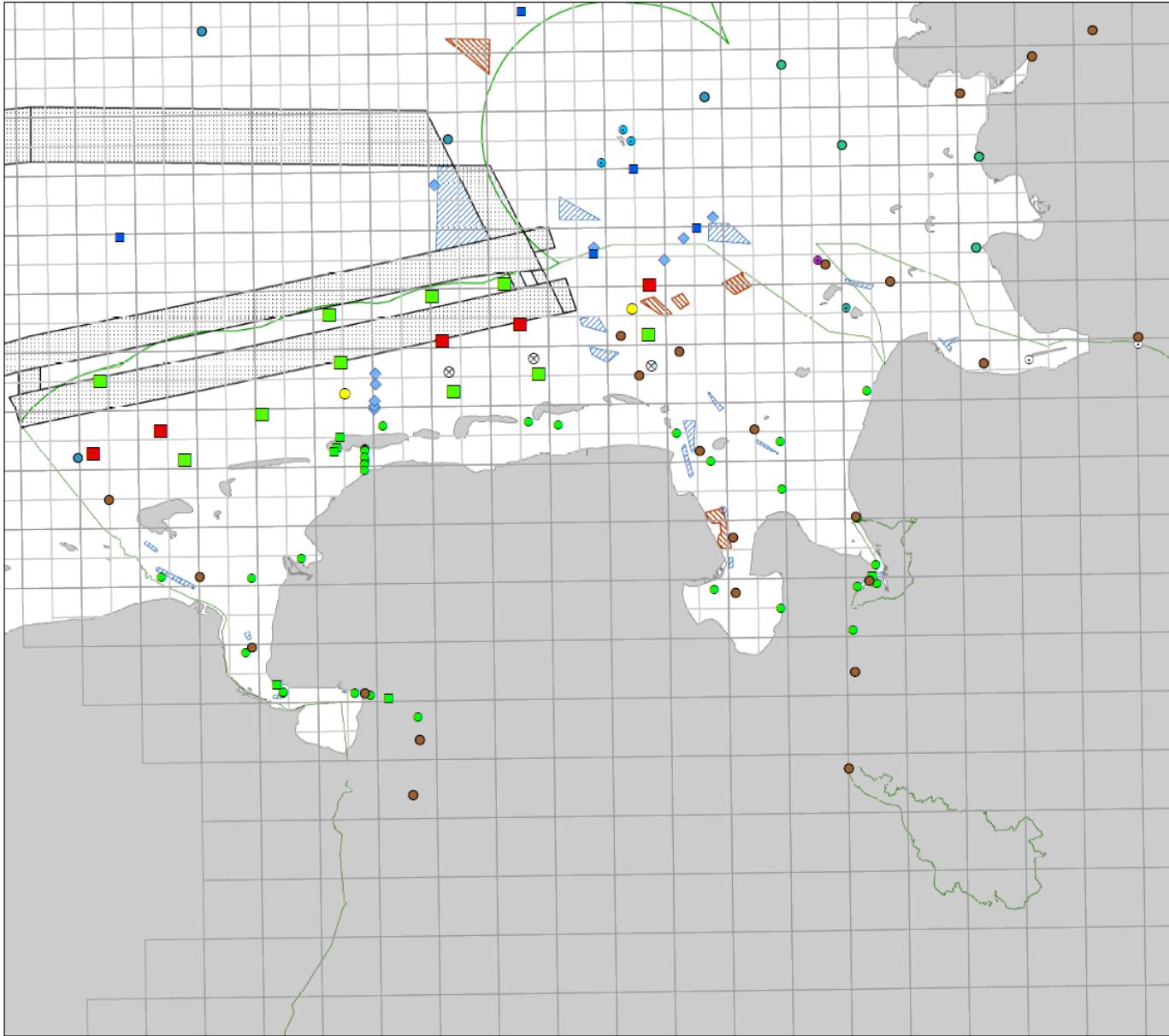


Example: Hörnum Deep



Mapping subtidal habitats





Recent developments

- increased knowledge on subtidal habitats
- definition and description of habitat types
- trilateral TG-MA workshop on monitoring subtidal habitats (01. – 02. November, Büsum)
- restoration of biogenic reefs

