

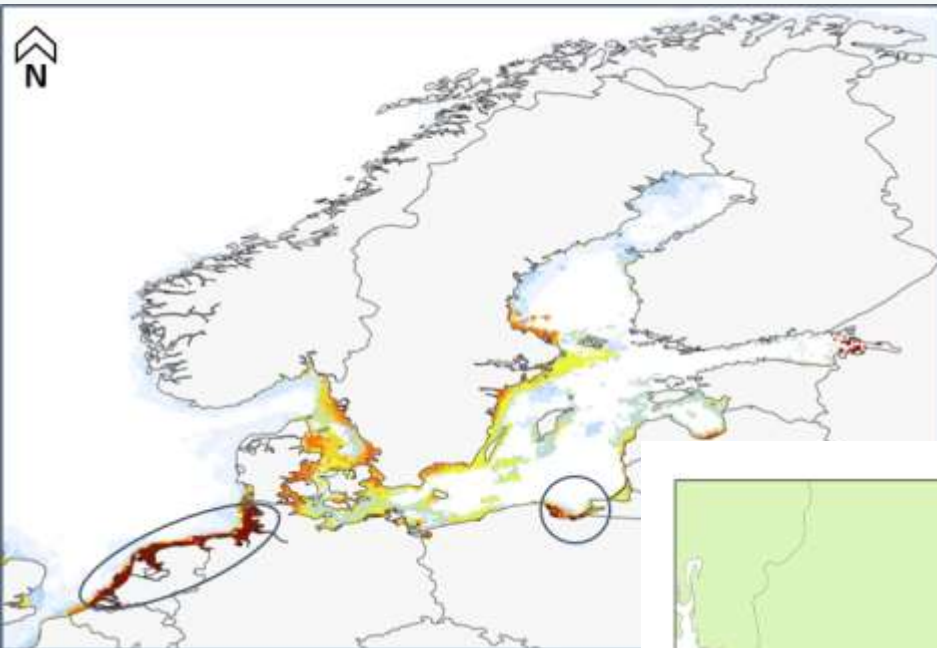
Updates on monitoring of non-indigenous species in Swedish marine waters

TG BALLAST 11-2020, doc 0902



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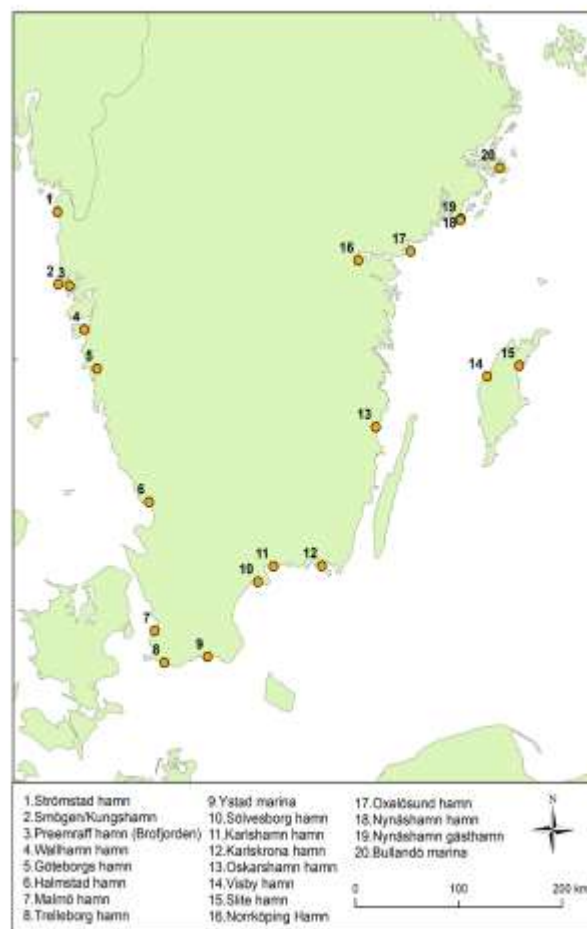


Surveillance system on NIS: 1. New monitoring program 2019

- » Monitoring according to MSFD D2 NIS:
 - Modell on hotspots
 - 20 stations in harbour areas
 - Early detection and spread of marine IAS, synchronised with EU IAS regulation.

- » Based on HELCOM extended Rapid assessment – eRAS, with habitat collectors.

- » Habitat model to identify hotspots for early detection (SwAM/HaV Report 2020:22)
 - Risk of invasion for 34 target species as “doorknockers”.
 - Species-specific risk assessment, geographical distribution of suitable habitats, pathways, currents.



2. Other monitoring on marine IAS

- » Port survey in port of Gothenburg 2014.
- » Citizen science – further developed by:
 - Improved reporting by the aquatic app “Rappen”, update in 2021.
 - Improved national validation system and organisation with competent authorities and taxonomic experts.
 - The School Project 2020–2021 in coastal municipalities.
- » Recipient control monitoring program of coastal industries AND in future SRA of Öresund.
- » eDNA-monitoring (8th TG Ballast 2017)
 - National research projects 2019-2021.
 - traditional methods was compared with novel DNA methods for port areas.
- » Data on new introduction to AquaNIS.

