

Port sampling in Sweden

JTG BALLAST & BIOFOULING 1-2021

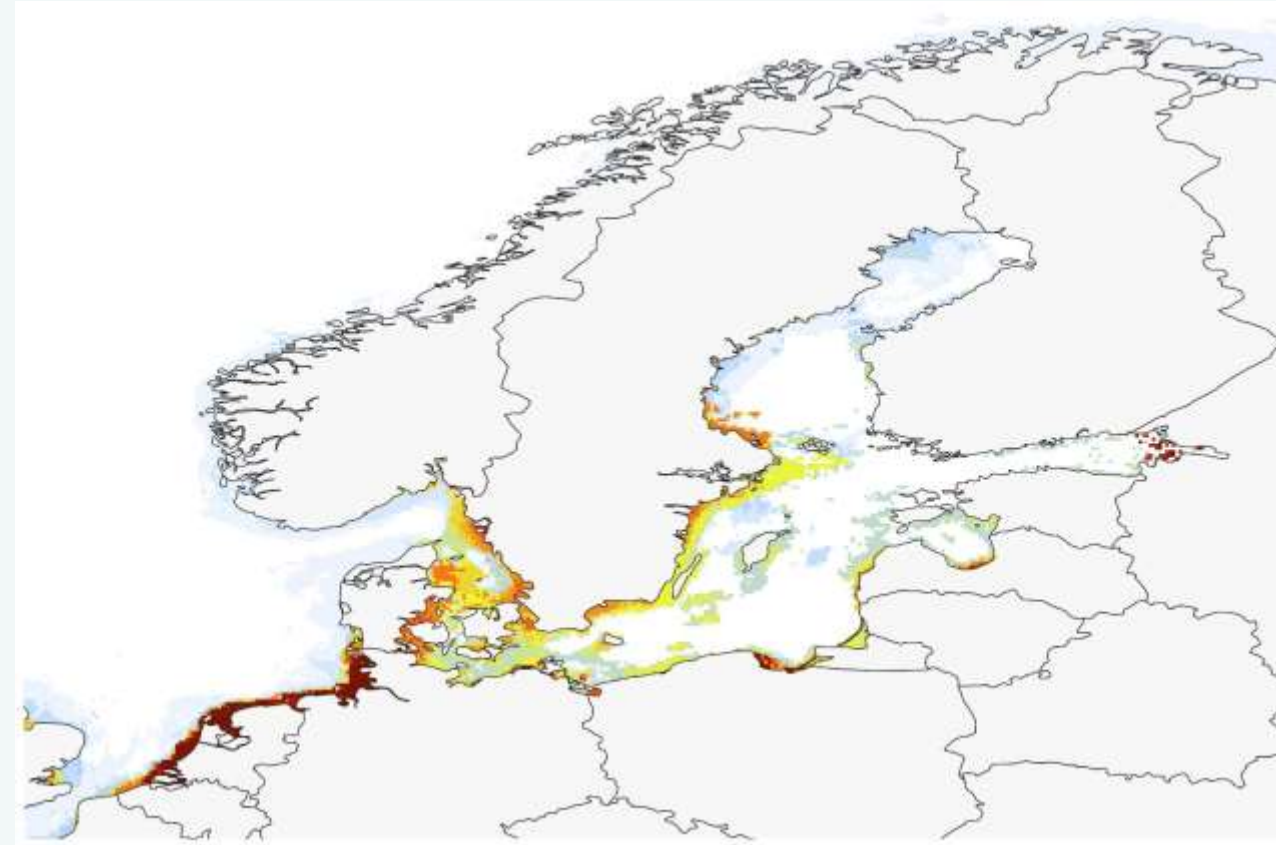


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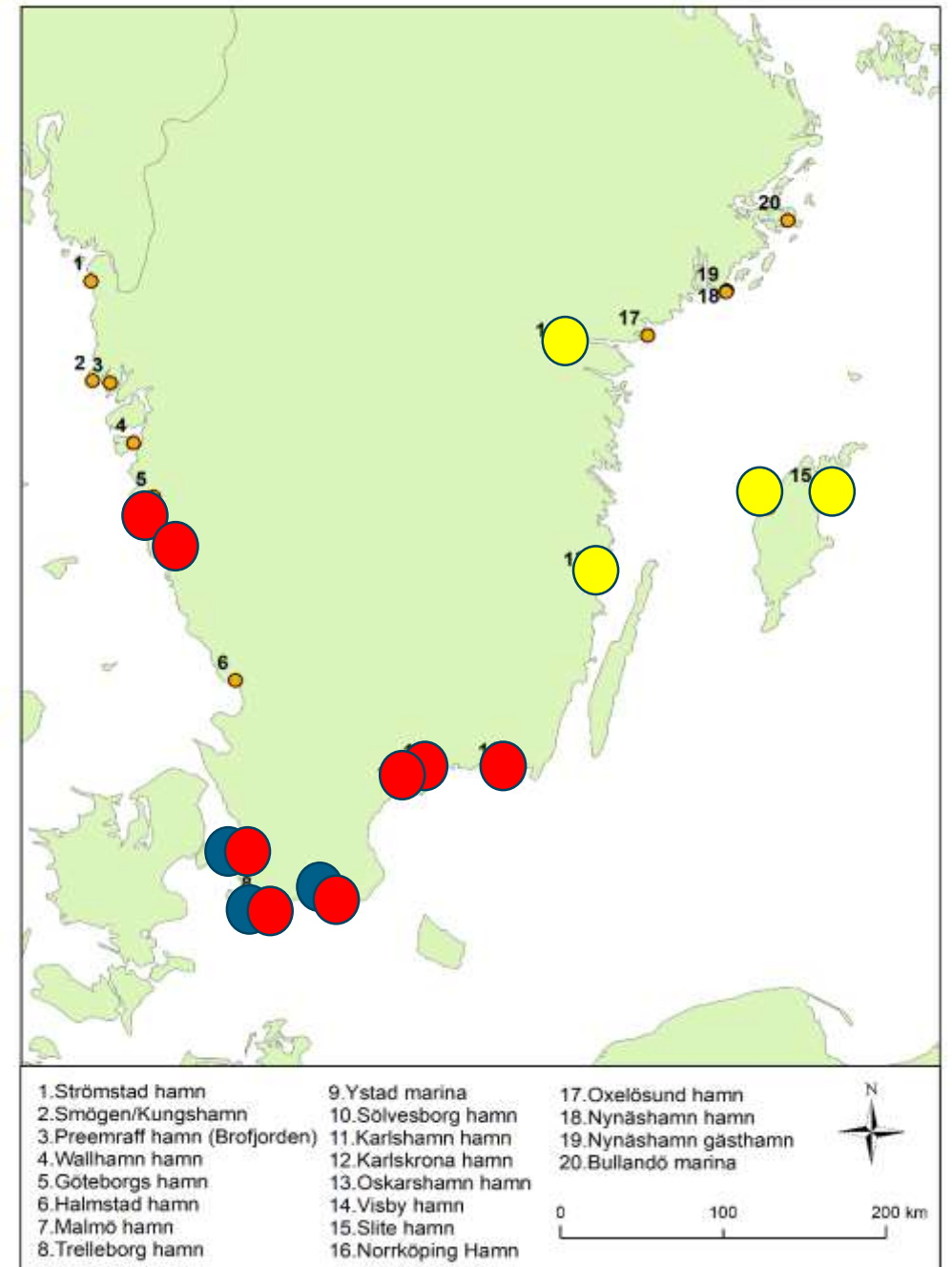
National Monitoring Program on marine NIS

- » Basis for the assessment of trends in marine NIS, according to MSFD.
- » Based on the Helcom guidelines for monitoring of NIS by eRAS and a complement to the port Survey protocol according to the JHP.
- » Locations are based on a modelling of high risk areas – hotspots – of new introductions of brackish and marina species to Swedish waters.
- » 20 ports have been suggested in the North Sea and the Baltic Sea, the Baltic Bay will be evaluated for limnic species introductions.
- » The hotspot model and results are free and available at:
 - [Report \(Swedish, English summary\)](#)
 - [Model at GitHub](#)



Results 2019–2021

- » So far data from 2019-2020 are uploaded to Helcom/Ospar BWE Decision Support Tool.
- » Port sampled and reported:
 - **2019** Ports of Malmö and Trelleborg. In addition Ystad marina
 - **2020** Ports of Karlskrona, Karlshamn, Sölvesborgs, Trelleborg, Malmö hamn Halmstad. In addition Ystad marina
 - **2021** Ports of Oskarshamn, Norrköping, Visby and Slite.
- » 10 taxa of NIS identified, plus *Mya arenaria*
- » New spread of *Rhithropanopeus harrisi* to the marine sub-basins/region The Arkona Sea and the S. Sound



NIS identified

» 2019

Art	Svenskt namn	Provtagning	Hamn
Amphibalanus improvisus	slät havstulpan	RAS, artificiellt habitat	MMA, TRG, YST
Crepidula fornicata	ostronpest	RAS	TRG
Hemimysis anomala	röd pungräka	artificiellt habitat	TRG
Mnemiopsis leidyi	amerikansk kammanet	RAS	MMA
Mya arenaria	sandmussla	RAS, artificiellt habitat	MMA, TRG, YST
Neogobius melanostomus	svartmunnad smörbult	artificiellt habitat	TRG
Palaemon elegans	kortfingrad tångräka	RAS, artificiellt habitat	MMA, TRG, YST
Potamopyrgus antipodarum	nyzeeländsk tusensnäcka	RAS, artificiellt habitat	MMA, TRG, YST
Rhithropanopeus harrisi	vitfingrad brackvattenskrabba	artificiellt habitat	TRG

» 2020

Art	Svenskt namn	Provtagning	Hamn
Amphibalanus improvisus	slät havstulpan	RAS, artificiellt habitat, påväxtpanel	CAA, KAN, SOL, HAD, MMA, TRG, YSTM
Cordylophora caspia	klubbpolyp	artificiellt habitat	CAA, KAN, SOL
Ficopomatus enigmaticus	australisk kalkrörsmask	påväxtpanel	MMA
Mya arenaria	sandmussla	RAS, artificiellt habitat, påväxtpanel	CAA, KAN, SOL, HAD
Potamopyrgus antipodarum	nyzeeländsk tusensnäcka	RAS, artificiellt habitat	CAA, KAN, SOL, HAD
Rhithropanopeus harrisi	vitfingrad brackvattenskrabba	RAS, artificiellt habitat	CAA



Thanks for your attention!
Erland