

# NATIONAL REPORT DENMARK

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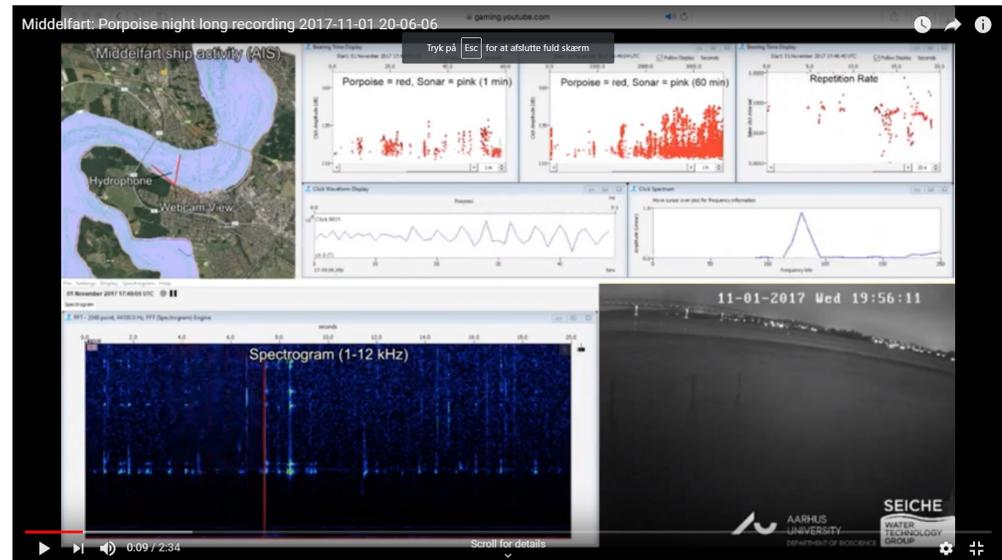
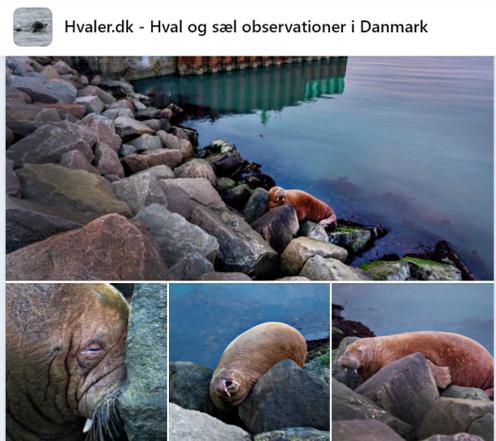


# INCREASE INVOLVEMENT, AWARENESS AND COOPERATION

- Fjord&Belt in Kerteminde "Marine Tracker" app for porpoise detections
- Middelfart listening station, 2017 – ongoing

<https://www.youtube.com/watch?v=aPOIRi9Ouls> and  
<https://bios.au.dk/forskningraadgivning/temasider/baelt-i-balance/>

hvaler.dk on Facebook - very active



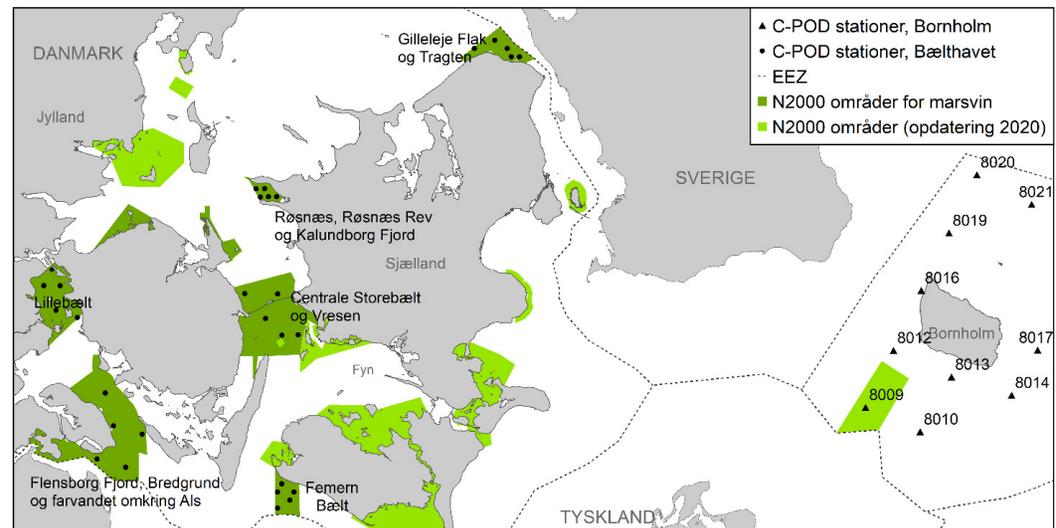
# MONITOR AND ESTIMATE ABUNDANCE AND DISTRIBUTION

**New results from national monitoring programs or large-scale surveys**

Latest report is from 2020.

## WBBK

- Rotation of PAM stations in SACs continues
- PAM results in all 6 N2000 shown a steady increase in detections since 2012.



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### **WBBK**

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- PAM results in all 6 N2000 shown a steady increase in detections since 2012.
- MiniSCANS-II in July 2020 – by aerial survey coordinated and funded by Germany, Denmark, and Sweden completed and reported.

### **BALTIC PROPER**

- PAM monitoring around Bornholm planned for 2023-2024 - hopefully part of SAMBAH-II

### **Future plans**

- SCANS-IV in July 2022

# MONITOR, ESTIMATE AND REDUCE BYCATCH

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## Bycatch monitoring

- By-catch monitoring program with video - 8 boats year round – more may be added. Data is reported and used in ICES WGBYC

## Bycatch estimates

- Larsen et al. 2021. “Bycatch of marine mammals and seabirds - Occurrence and mitigation”, DTU Aqua Report no. 389-2021

# MONITOR, ESTIMATE AND REDUCE BYCATCH

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- Electronic video monitoring
- Detected fishing activity,
- North Sea, Skagerrak, Kattegat
- Results: mesh size, fishing gear modifications were important contributors

HARBOUR PORPOISE					
Area	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Year
North Sea	123 (0-337)	515 (246-822)	984 (492-1,644)	0 (0-0)	<b>1,622</b> (739-2,804)
Skagerrak	64 (28-106)	134 (56-223)	211 (105-344)	96 (48-154)	<b>505</b> (238-827)
Øresund	19 (10-30)	10 (5-18)	30 (15-46)	43 (23-69)	<b>102</b> (52-163)
Belt Seas	57 (21-100)	145 (95-199)	201 (130-282)	90 (48-144)	<b>493</b> (294-752)
<b>All areas</b>	<b>263</b> (59-573)	<b>804</b> (402-1,262)	<b>1,426</b> (743-2,317)	<b>229</b> (119-366)	<b>2,722</b> (1,323-4,518)

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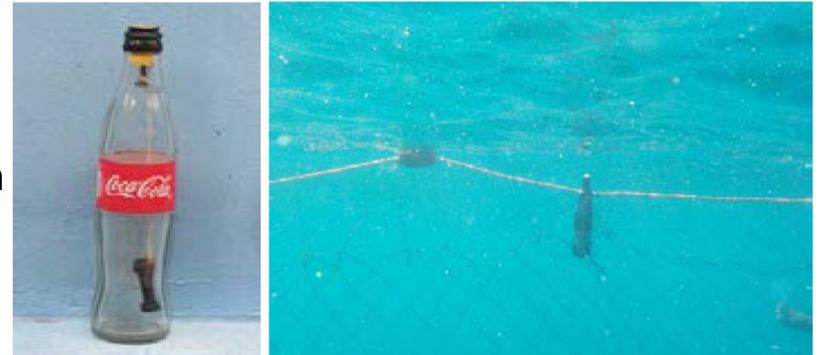
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## Ongoing projects with alternative gear

- DTU Aqua research focus on pots, seine, pearl net, rattle pingers, low nets.
- Pots – efficiency across the year and with different bait. Pearl net trials will begin this year – follow up on Isabella Kratzer's PhD.
- Big challenge is the low cod quota, making trials in cod fishery impossible.

**Reduce bycatch:** in the Baltic Sea: Delegated act



# MONITOR AND MITIGATE IMPACT OF UNDERWATER NOISE

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## Projects/research/monitoring in underwater noise and its impact on harbour porpoises?

- National noise monitoring stations continued
- **TANGO**, 2019-2022. Rerouting shipping lanes in the Kattegat – effects on soundscape and ecosystem 2019-2021. Field work finished aug 2021. Analysis ongoing. Collaboration with SNM and FOI (Swedish Defence Research Agency).
- **SATURN**, 2021-2025. Impacts of disturbances on marine populations – the importance of animal movements and energetics. Tagging of porpoises.

# MONITOR AND ASSESS POPULATION HEALTH STATUS

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## Status of collection of dead porpoises:

Data from 2019: STRANDEDE HAVPATTEDYR I DANMARK 2019 Beredskabet vedrørende Havpattedyr (National Contingency Plan)”.

- 59 dead harbour porpoises (56 stranded/3 known bycatches)
- 14 harbour porpoises necropsied - > no signs infectious diseases/negative for morbillivirus. Six of the necropsied porpoises were assessed to be potential bycatches
- Denmark has funding for dissecting 25 porpoises per year

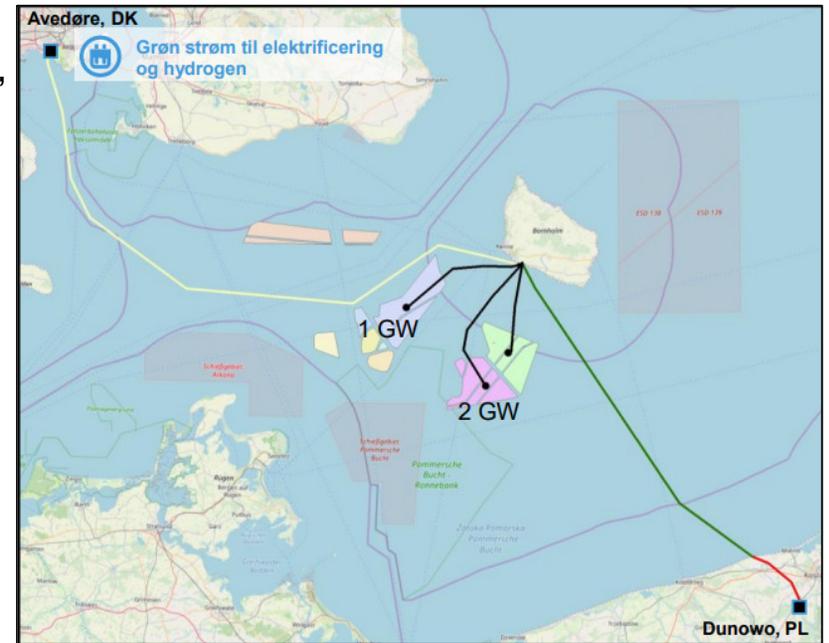
**Interesting cases to mention?** no

# INVESTIGATE HABITAT USE AND PROTECT IMPORTANT AREAS

## Projects/Research on porpoise distribution or habitat use?

Belt Sea: several EIA assessment studies using PAM in Kattegat 2020 – 2022, Results confirm known distribution.

Baltic Sea: “Energi Island Bornholm , 3 GW wind farms”  
Assessment in 2021-2023. PAM and aerial surveys.



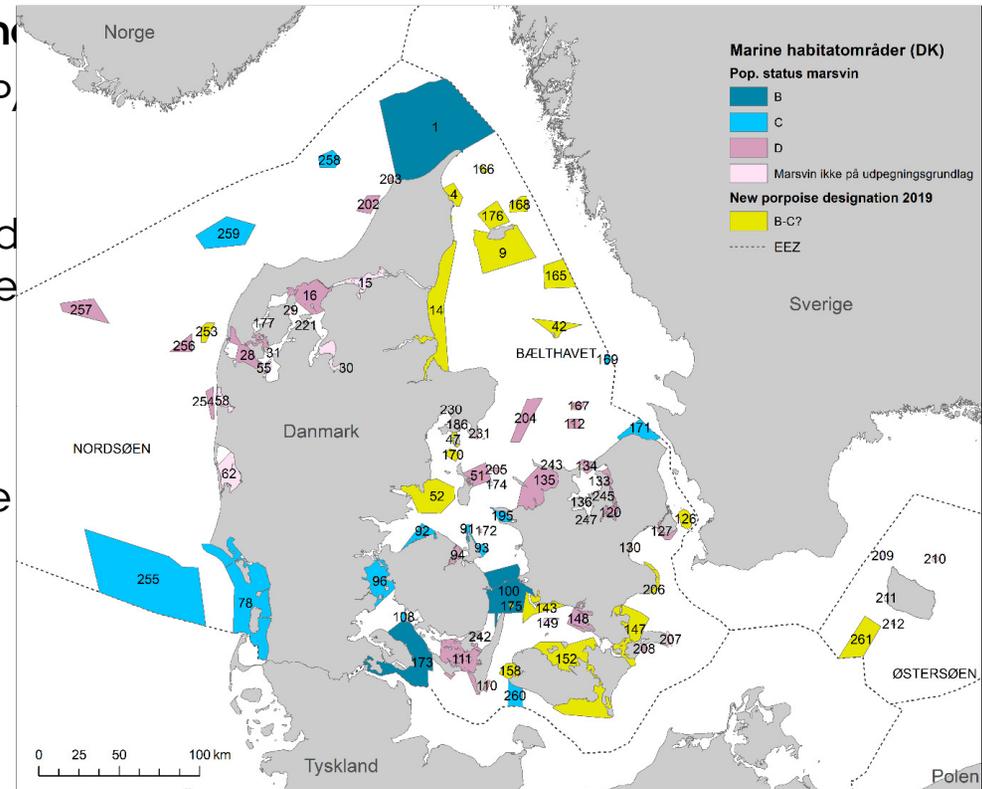
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**Projects/Research on porpoise distribution or habitat use in the Baltic Sea:** several EIA assessment studies using PAM and known distribution.

**Baltic Sea:** “Energi Island Bornholm , 3 GW wind farm EIA Assessment in 2021-2023. PAM and aerial surveys”

## **New protected areas designated for harbour porpoises?**

In 2020, 20 new N2000 sites were added to the existing 16 sites.



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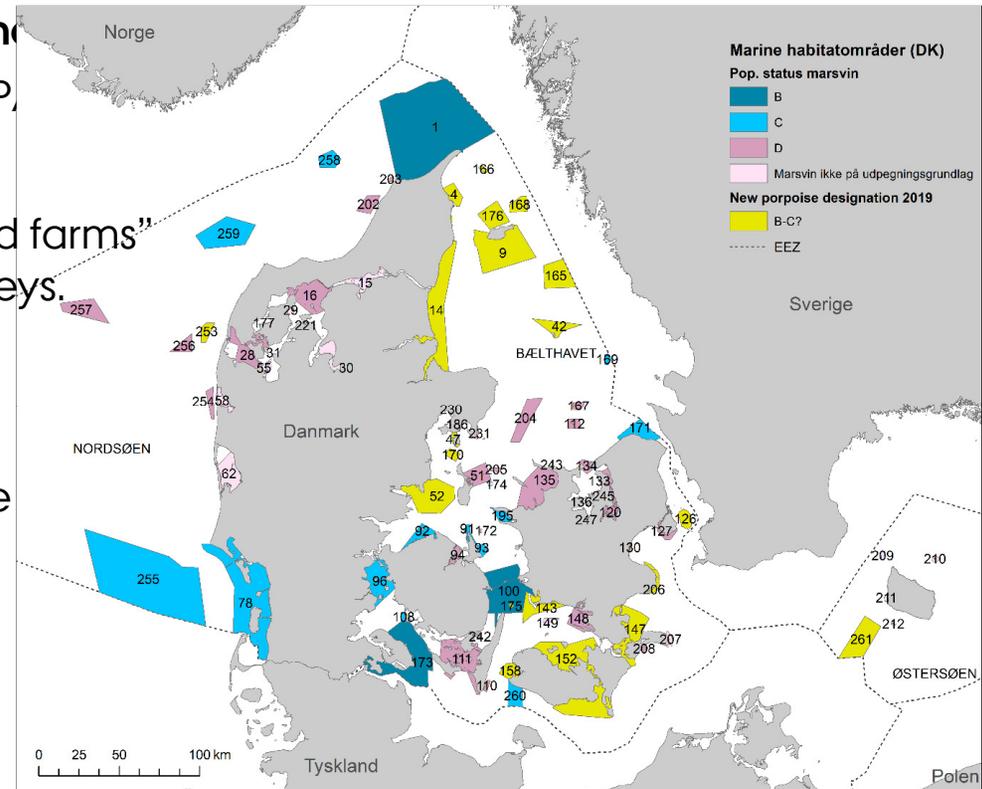
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**New protected areas designated for harbour porpoises?**

In 2020, 20 new N2000 sites were added to the existing 16 sites.

**Conservation measures and/or management plans in place for existing areas?**

No





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