

Safety of navigation in the Danish Straits

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The Straits

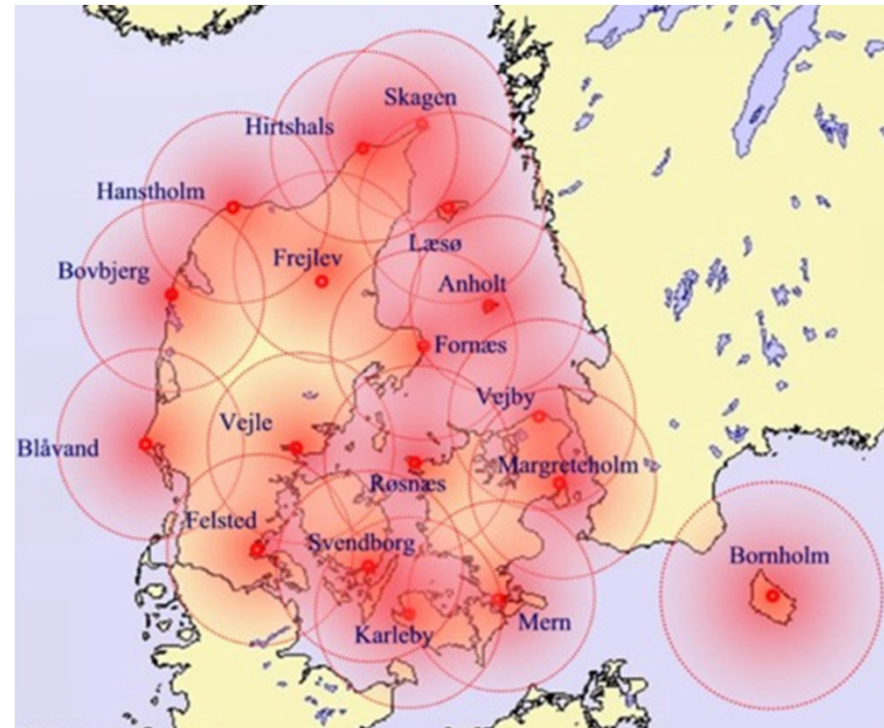


Similar Straits

	Danish Straits	Malacca Strait
Narrowness/difficulty	Very narrow and difficult to navigate, some sharp bends. Many wrecks	Narrow and difficult to navigate, some bends. Many wrecks
The waterway (traffic lanes)	Up to 290 M, width 0.2 up to more than 4 M	Length approx. 600 M, width 1.5-39 M
Traffic mix and traffic density	Dense traffic, dense crossing traffic Approx. 60,000 passages	Very dense traffic, very dense crossing Approx. 70,000 passages
Other (such as)	Strong currents, no tide, TSS, VTS, pilotage service.	Strong currents, tidal stream, TSS, VTS, pilotage service, piracy.

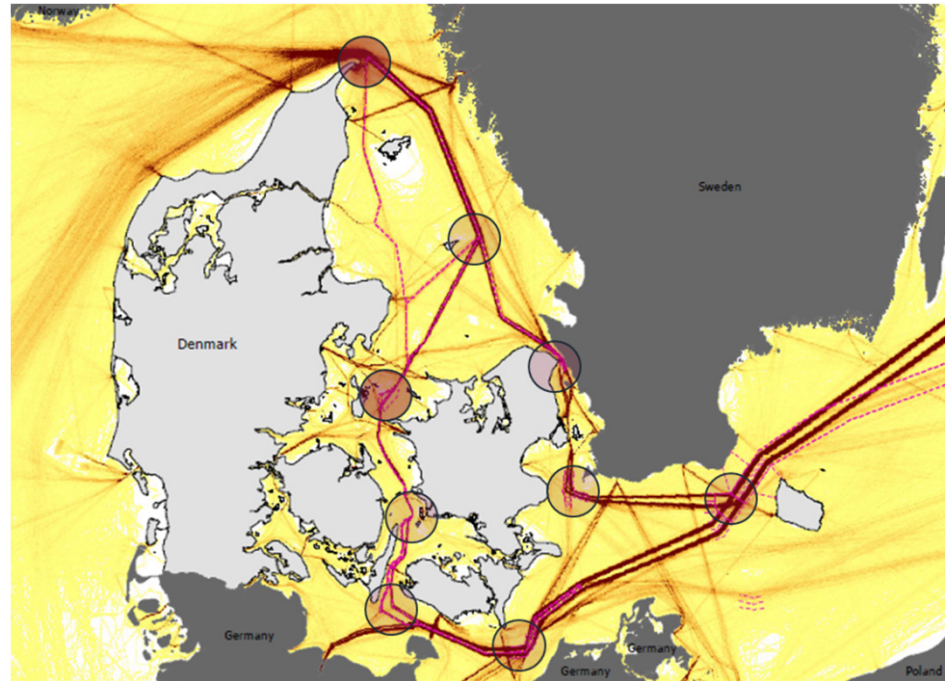
AIS

- Danish AIS base stations:
 - 18 + 3 in the North Sea
- AIS gaps in the Baltic covered by Sweden and Germany
- DK can monitor all the traffic in the Baltic area
- Cooperation with all the Baltic states
- Also radar coverage in many areas including VTS areas



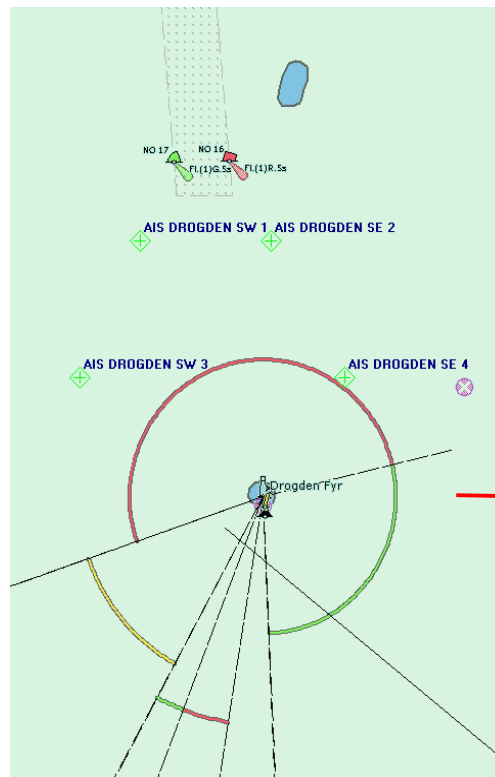
Hot spots

- The map shows DK's hot spots
- Traffic separation schemes
- Deep water routes



The Sound

- Trial of virtual AIS AtoN
- New AtoN introduced
- Routing measures changed
- VTS established

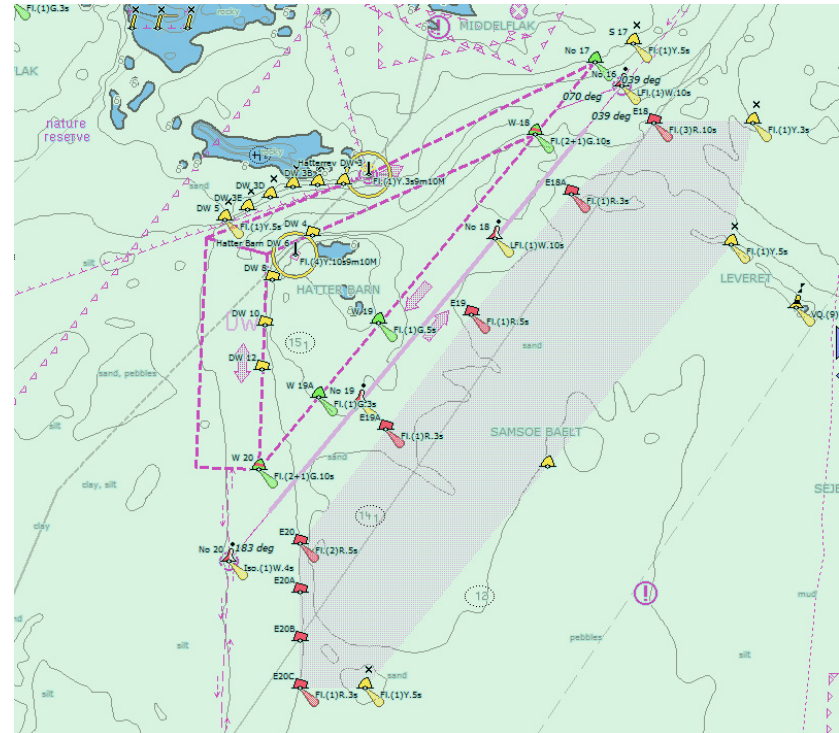


Virtual AIS AtoN



Sound VTS (DK and Sweden)

- New AtoN introduced
- Routing measures changed
- VTS area expanded to include the Hatter area
- Better monitoring by VTS



Pilotage in the Danish Straits

- 2006: Competition on harbour pilotage
- 2014: Creation of a public company owned by the state - DanPilot
- 2016: New rules enter into force introducing competition on transit pilotage in the Danish Straits
- Gradually introducing competition towards 2020, where we will have fully open market for transit pilotage
- Danish Maritime Authority is the supervising authority
- Pilotage as to open for competition to make sure international shipping pays a market based price
- The market will make sure that we have skilled pilots also in the future



Pilotage in the Danish Straits

- Some international attention to the new danish rules.
- Pilotage is a service provided to international shipping to strengthen navigational safety
- The ambition is to improve pilotage service in order to increase the use of pilotage in the Danish Straits
- We expect more ships will take on a pilot on a longer distance in the Danish Straits
- Increased safety if more ships take on a pilot
- Long term goal is a fully market based system, where the market regulate demand and supply

