

KYSTVERKET

Norwegian Costal Administration

Maritime Safety in Arctic Sea Areas

Ву

Ronny Vågsholm

PIANC AGA Technical seminar Helsinki 27.05.09

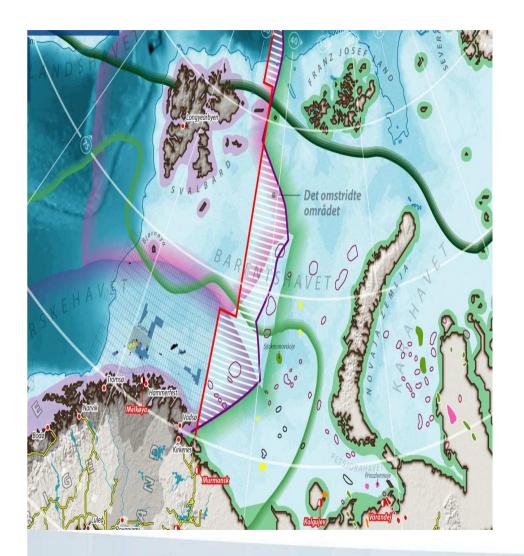


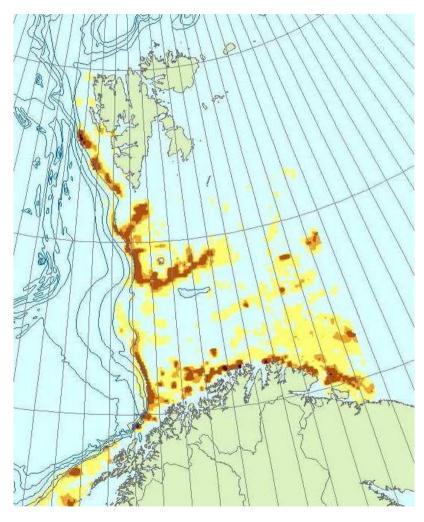
Agenda

- Background
- Present Activity
- Integrated Management of the Barents Sea (Arctic) and the sea area off the Lofoten Island
- Risk reduction measurements
- Maritime Safety at Svalbard
- Summary



Background

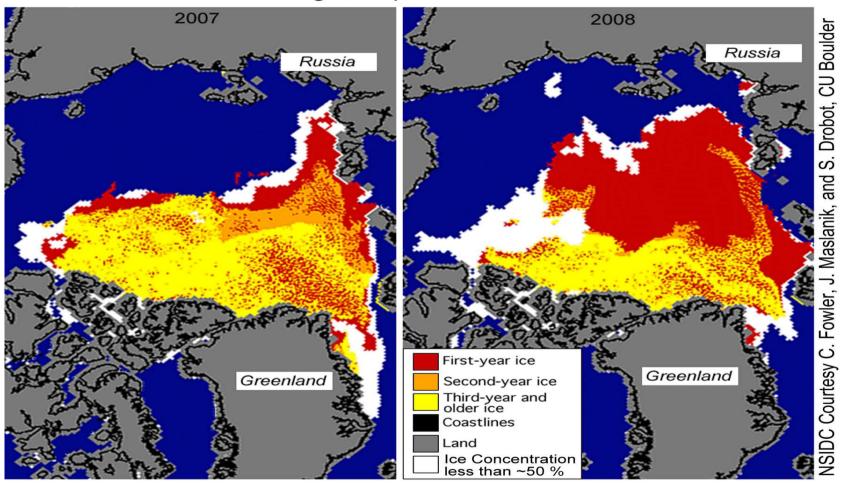




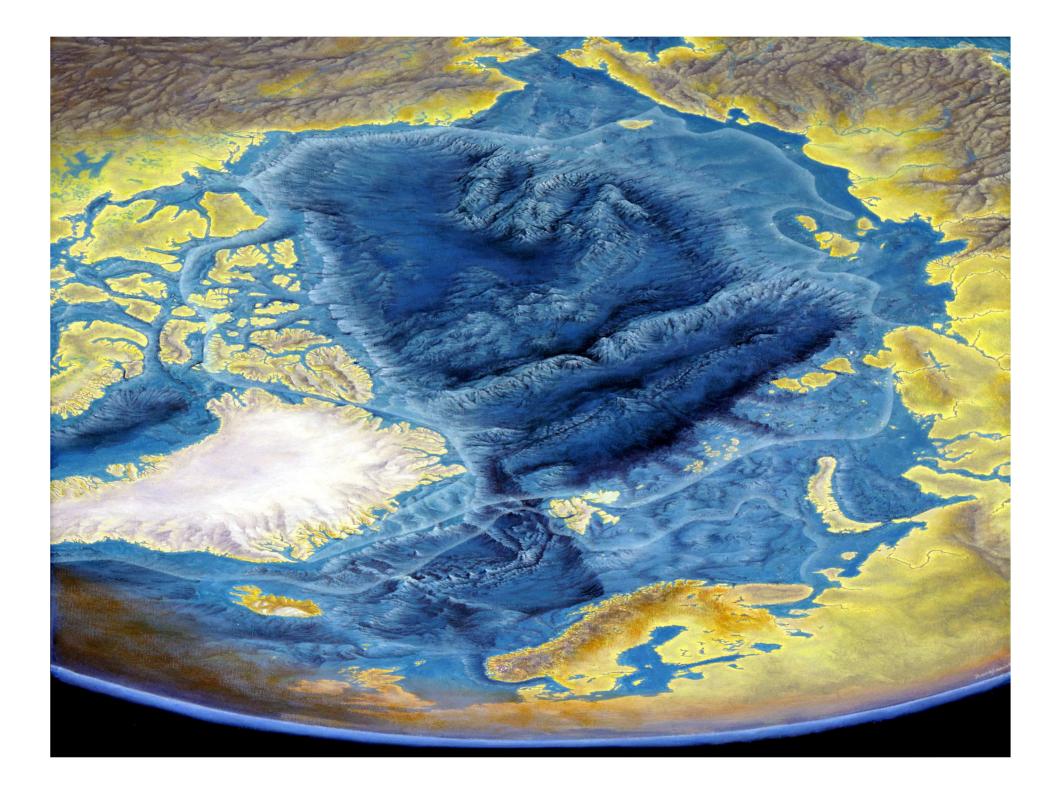


Background

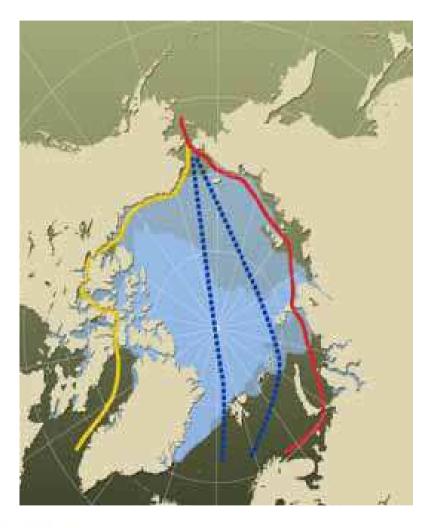
Arctic sea ice age, September 2007 and 2008







Background



Transpolar Highway TPH = aprox. 2800 nm

- No depth limits
- Outside national territory

Northeast passage NØ-pass = aprox. 3600 nm

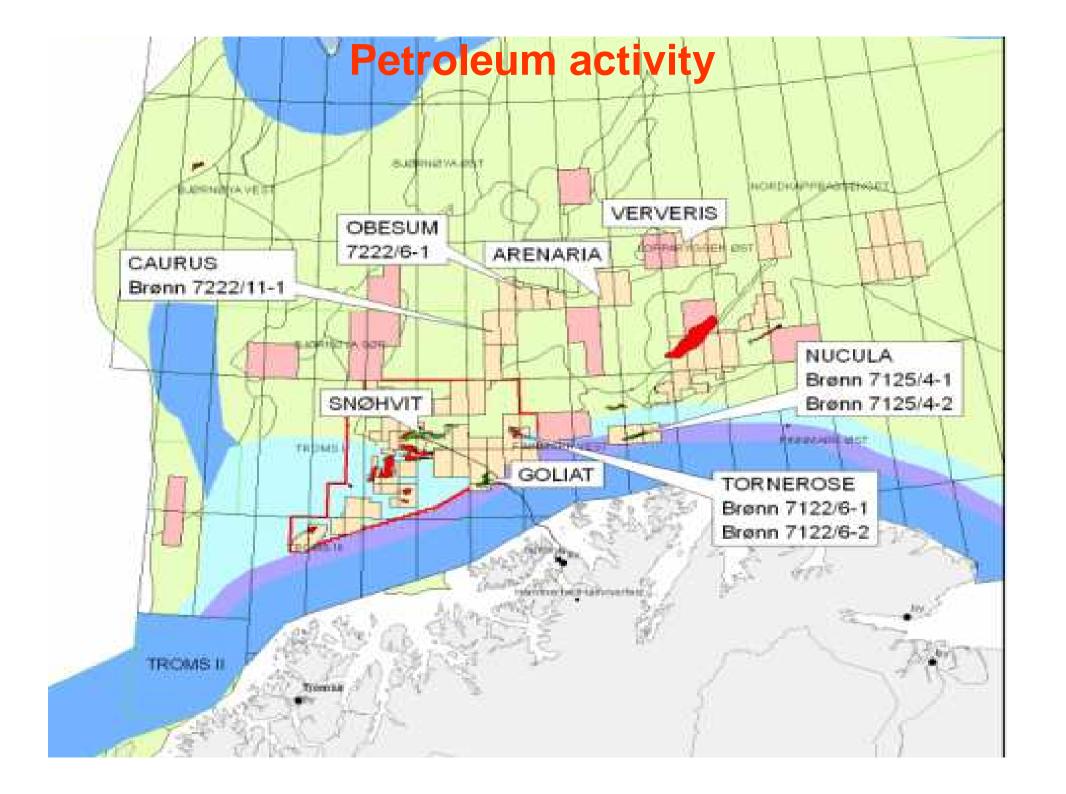
- Challenging fairway / depths limit
- Inside Russian territory



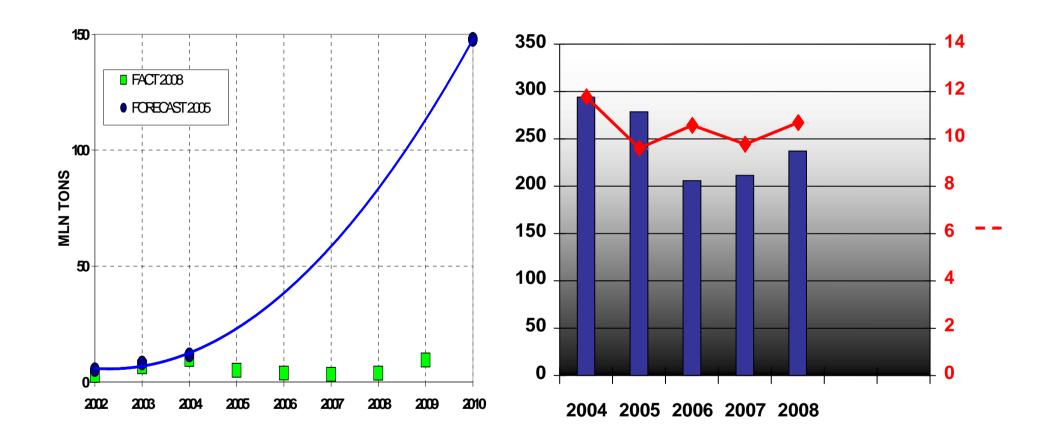
Activity







Shipping Activity Forecast / facts





Oversea cruise vessels Svalbard

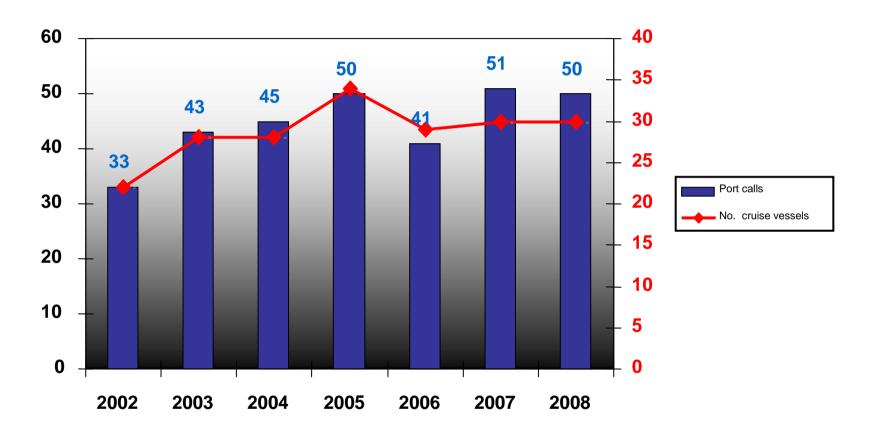


Figure: Port calls and number of overseas cruise vessels on Svalbard in the years 2002-2008. Source: Governor of Svalbard



Landing sites Svalbard

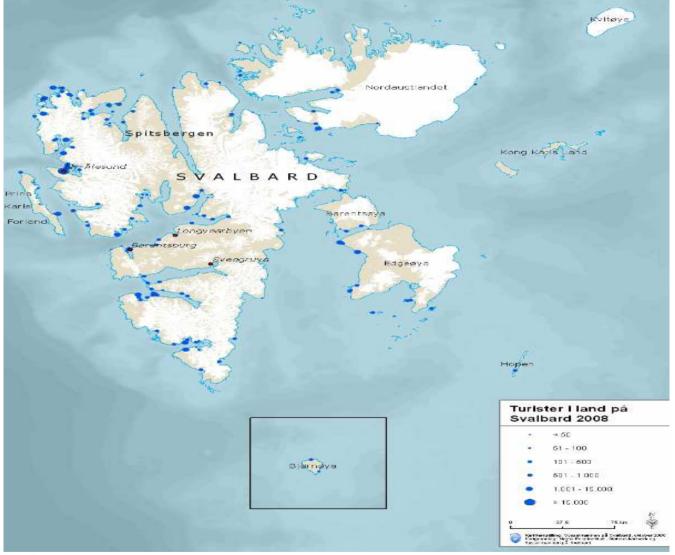


Figure: Map of Svalbard showing the 157 landing sites visited in 2008. Source: Governor of Svalbard.



Maxim Gorkij 1989 - Hanseatic 1997







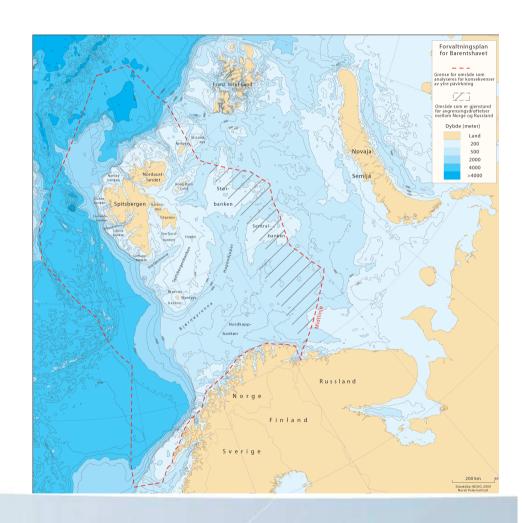




Integrated Management of the Marine Environment of the Barents Sea (Arctic) and the se Areas off the Lofoten Island 2006.

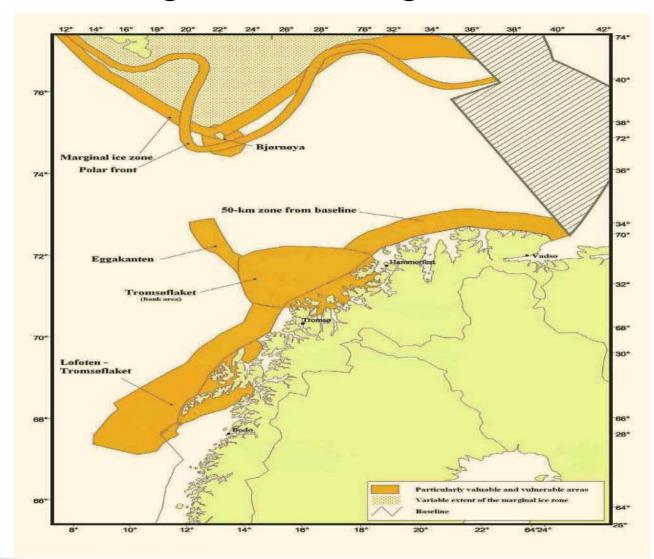
Governments goal:

Human activity in the area shall not damage the structure, functioning, productivity or dynamics of the ecosystems in the arctic.





Integrated Management......





Risk reduction measurement Civilian surveillances → Vessel Traffic Services

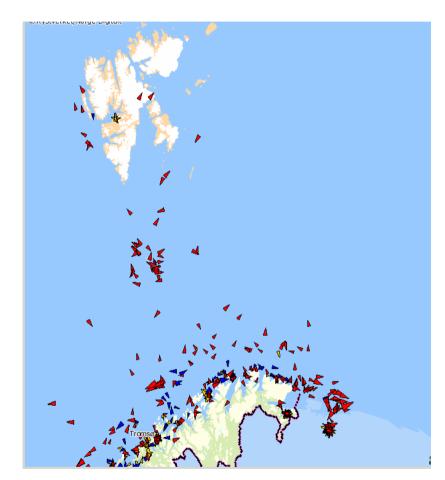
- Registration and monitoring of vessel traffic using radar, VHF and AIS.
- In continuous contact with vessels.
- Intervention to avoid groundings and accidents
- Administrates the national towing preparedness in Northern Norway
- Available 24/7





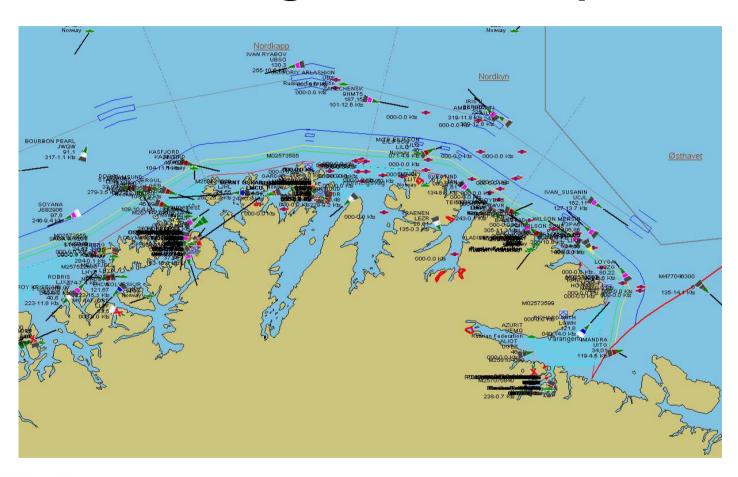
Risk reduction measurement Civilian surveillances Automatic identification system (AIS)

- 36 base stations + 3 test receivers (Bjørnøya and Svalbard).
- Receives AIS signals from vessels.
- Distribute AIS information over the internet to right body in the government.
- Mapping traffic patterns.
- Statistic use, fairway development. Risk reduction measurement.



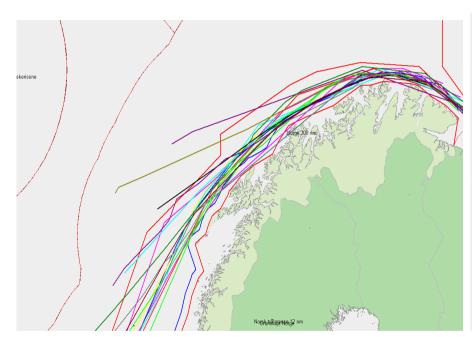


Risk reduction measurement IMO sailing route / C-scope

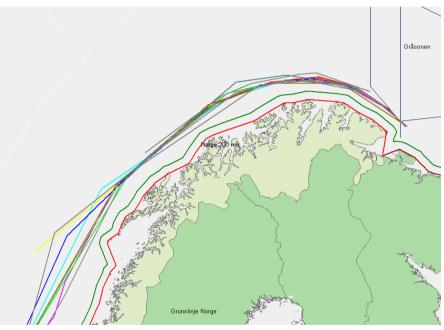




Risk reduction measurement IMO sailing route

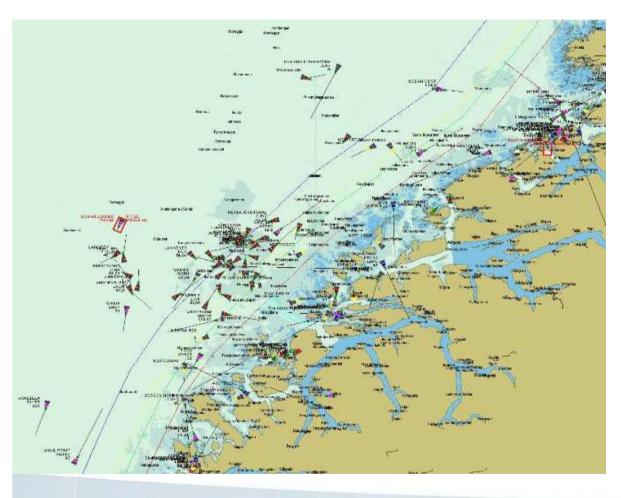


December 2006



September 2007

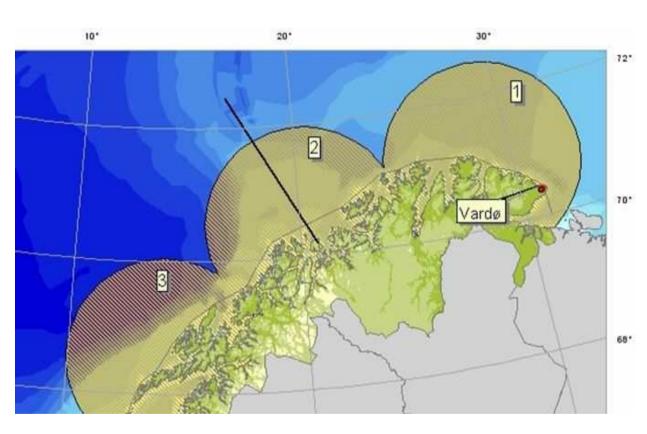
Risk reduction measurement Ocean leader – March 2009







Risk reduction measurement Emergency Towing Vessels in Northern Norway







Risk reduction measurement

Emergency Response against Acute Pollution (consequence)

- The national emergency preparedness against acute pollution
- A 24-hour duty service for:
 - recording, assisting and monitoring polluters' handling of acute pollution within the scope of the Pollution Control Act
- Surveillance aircraft
- Depots with anti-oil spill equipment
- Vessels and naval resources at our disposal









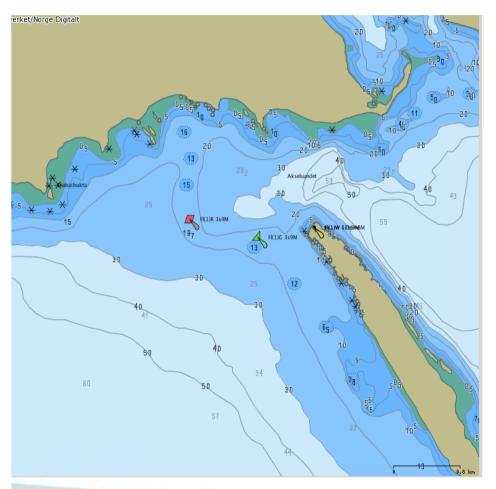
Maritime safety at Svalbard

Harbor and Fairway regulation;

- Harbor development
- Positions report
- ISPS
- Sea traffic



Maritime safety at Svalbard Akselsundet / traffic regulation

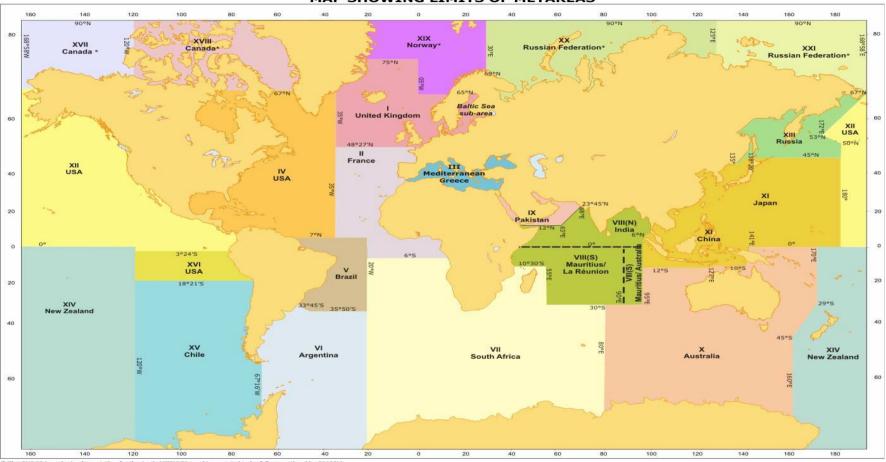






NAVAREA 19

MAP SHOWING LIMITS OF METAREAS



* The GMDSS is under implementation for the Arctic METAREAs and is expected to be fully operational by 2010/11

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Summary

- Traffic Monitoring, situations understanding, in order to respond early whit proper resources.
- The Arctic need sufficient hydrographical surveys, maritime
 infrastructures and services.
- Close cooperation between the stakeholders in the arctic, are crucial to develop joint operational concepts. To ensure effective use of resource when needed (rescue operation).
- International cooperation whit IMO and other body's are also necessary to ensure high standards on regulation, like polar code, STCW....



