

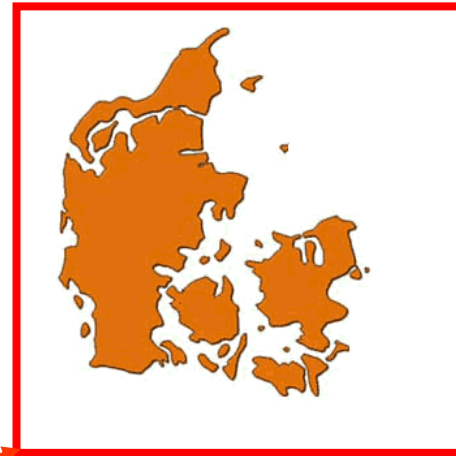
Arctic Shipping
New challenges, Search and Rescue
- a Danish perspective



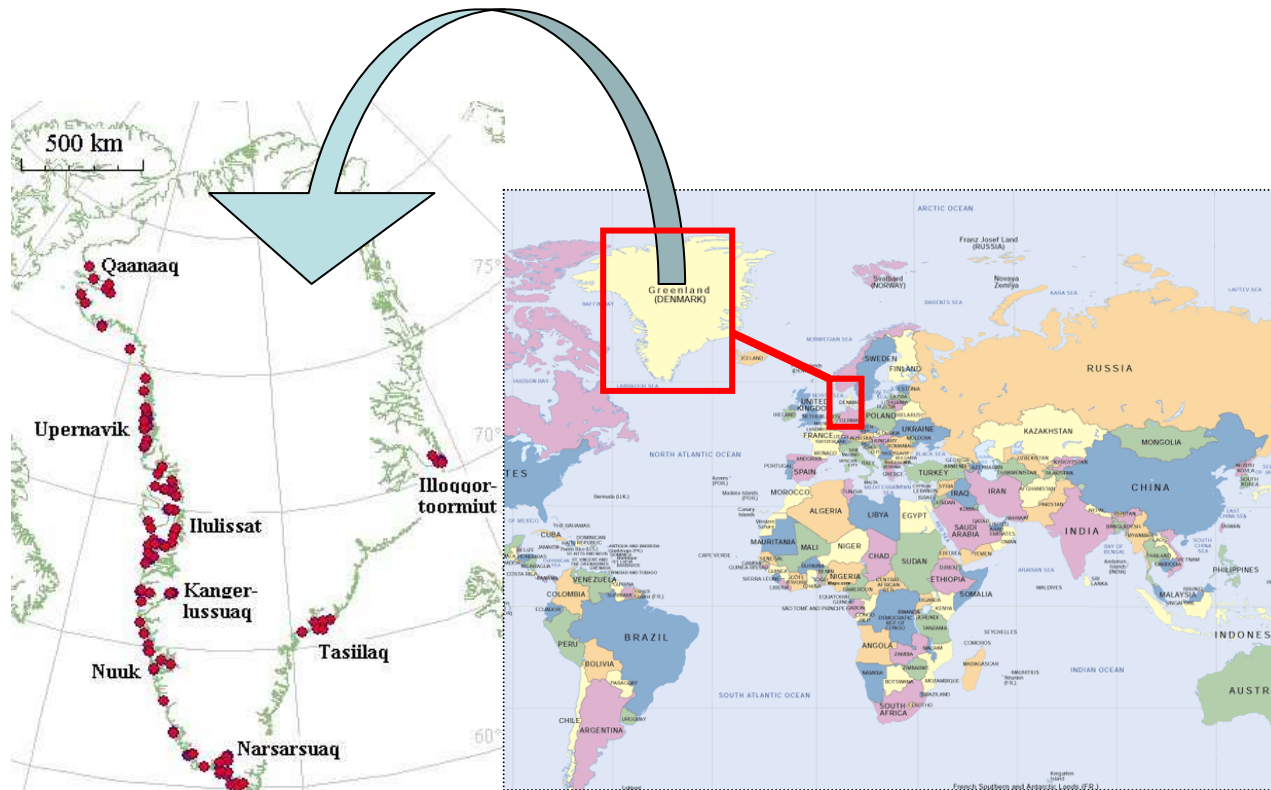
COP15 Copenhagen
Per Sønderstrup, Head of Centre, Danish Maritime Authority

Denmark

400 KM



The Coastal State Denmark



39.000 km Arctic coastline



Arctic shipping is in growth

- **Increased economic activity**
 - Mining, production, energy resources
- **Increased passenger cruise traffic**
 - "No limits" tourism
- **Climate change opens new routes**

Characteristics

- **Millions of squaremiles have not been adequately surveyed**
 - Lack of reliable charts/nav data
- **Weather conditions are often extreme**
- **Remote areas – very limited infrastructure**
- **Limited Search And Rescue capacity**
- **Limited pollution combat capability**

- and then there is ice



Operators in Arctic shipping

- **Traditional expert operators**



Operators in Arctic shipping

- **New operators entering**



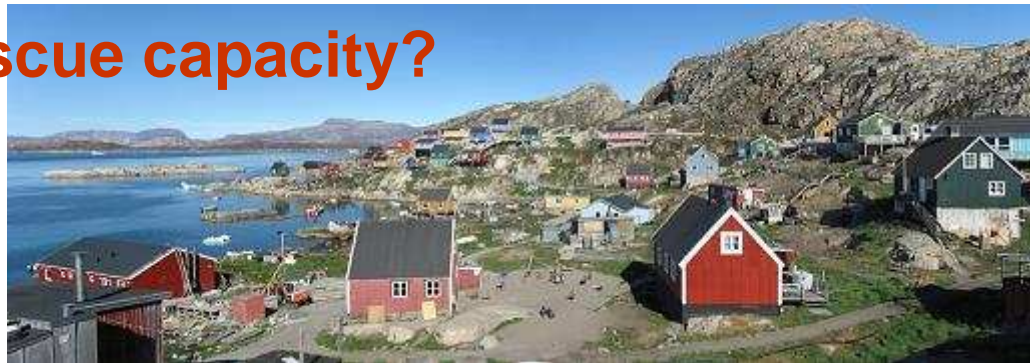
Lessons learned



What if



Rescue capacity?

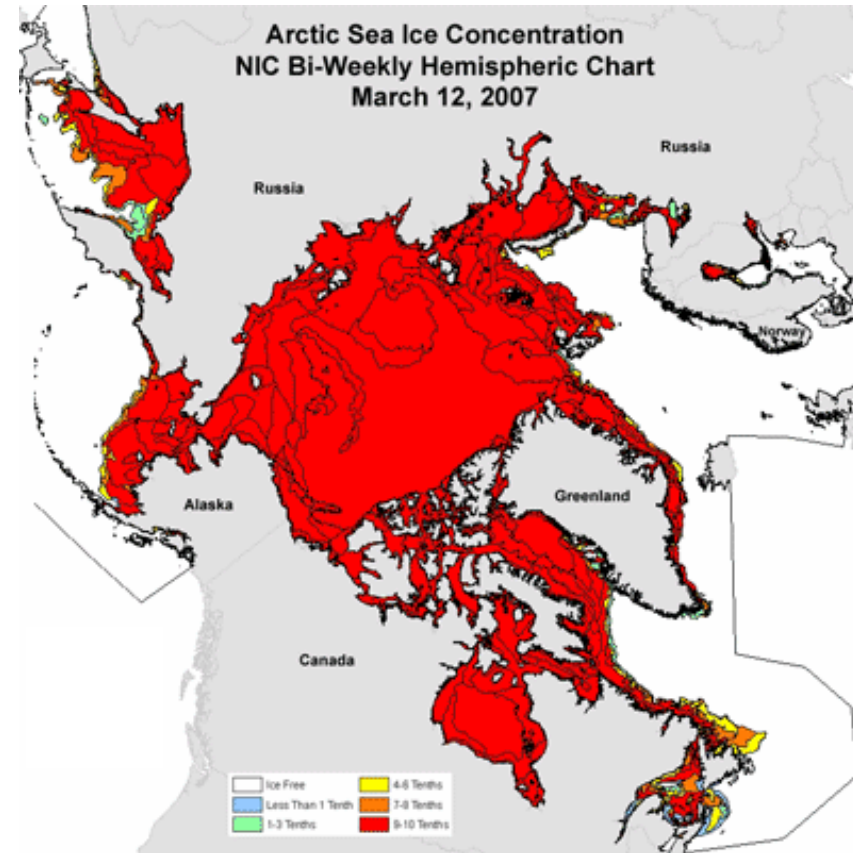


Proactive action to be taken

- **Guidance and recommendations not sufficient**
- **Mandatory international regulation needed**
 - construction and design
 - equipment
 - operational issues
 - crew qualifications
 - **Risk based goal oriented approach**
- **Support should be given to work on this issue in the IMO**

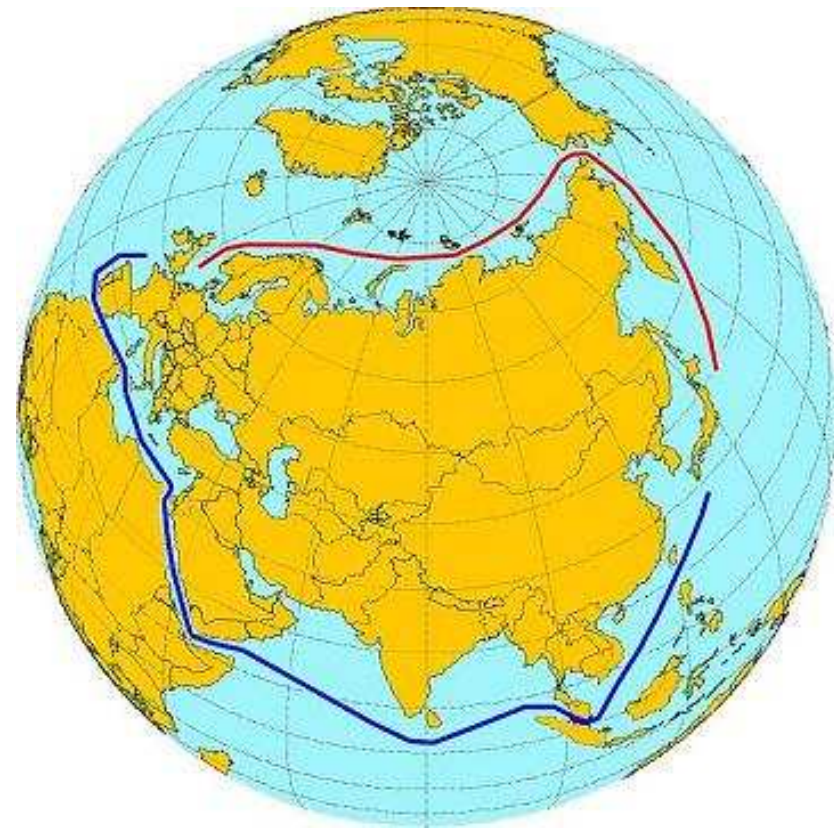
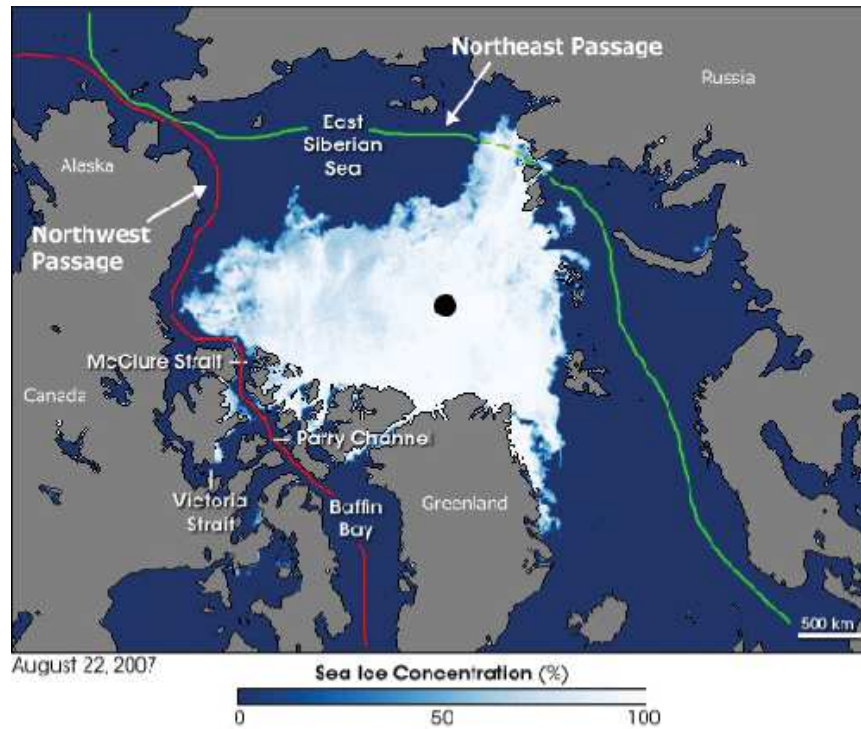
Climate change opens new routes

- **Arctic ice is receding**



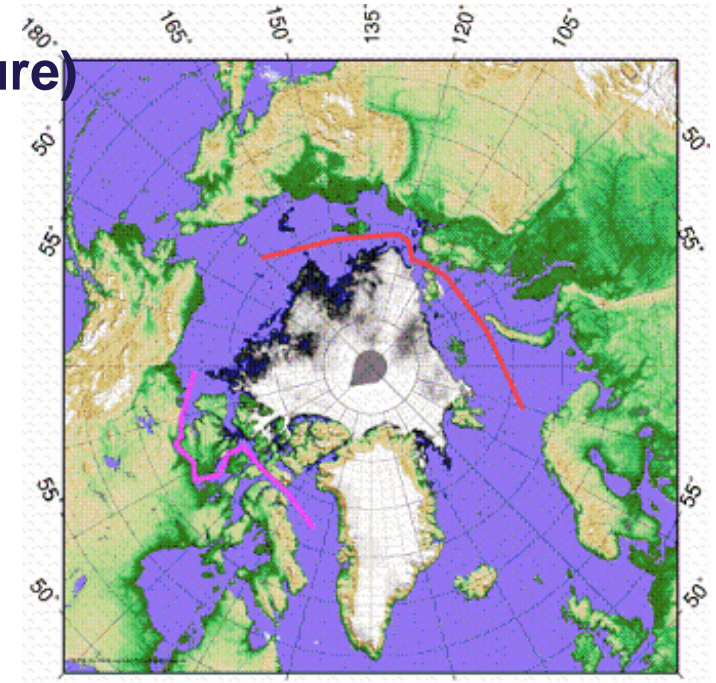
Climate change opens new routes

- Old dream come true



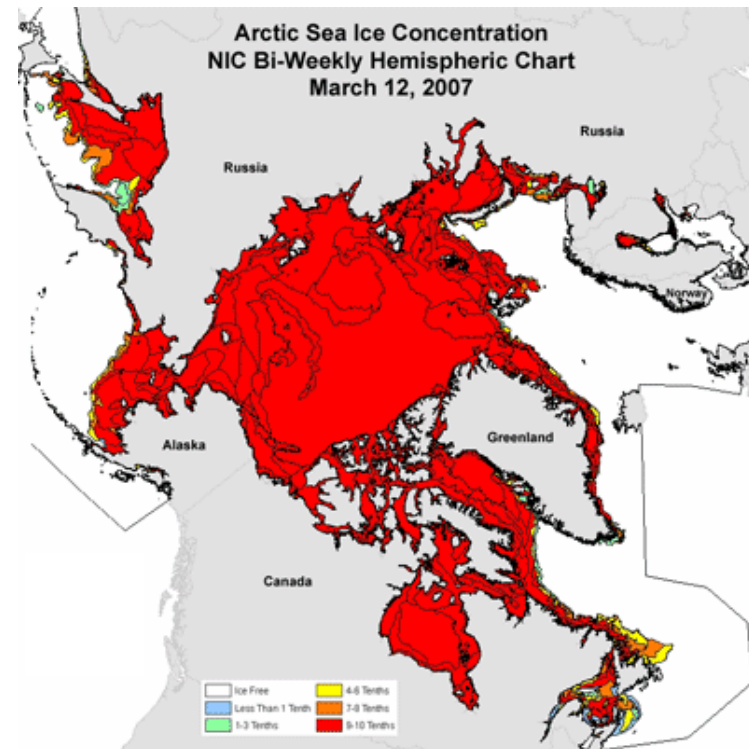
New routes - challenge

- **Raises safety, environmental and security concerns**
 - navigational aids
 - assistance to ships (infrastructure)
 - surveillance
- **Demand for right to free passage**



New routes

- **Arctic ice is receding**
 - **faster than we thought**



Danish cable vessel m/v Peter Faber

- Navigating NW passage August 2008



We need to be proactive

- **Risk based goal oriented approach**
 - See problems and risks before incidents occur
- **Support should be given to work on this issue in the IMO**

Thank you for your attention

