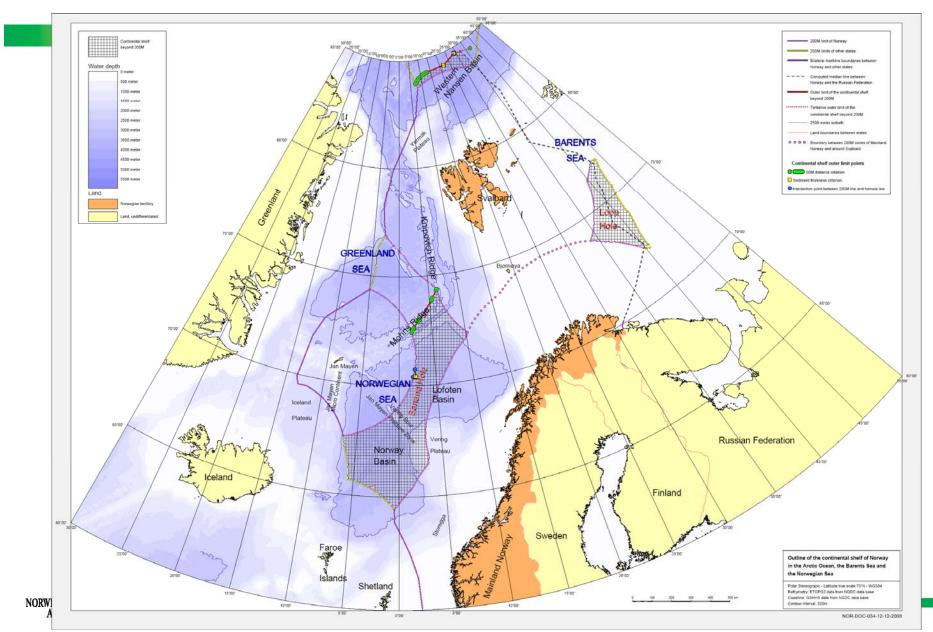


OUTLINE

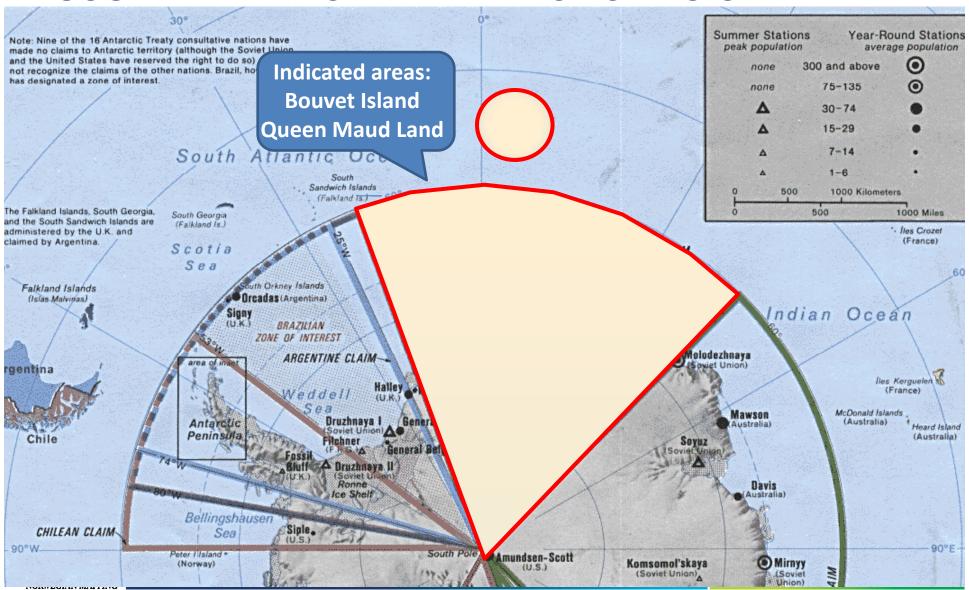
- Area of responsibility
- Survey fleet
- Equipment
- Surveying status
- Norwegian coast
- Jan Mayen
- Svalbard



AREA OF RESPONSIBILITY – NORTH ATLANTIC AND ARCTIC REGION



AREA OF RESPONSIBILITY – SOUTH ATLANTIC AND ANTARCTIC REGION



SURVEY VESSELS

Length 10 m **Speed 13 knots Built 1998** EM3002D

R/V Hydrograf

Length 43.6 m **Speed 10 knots Built 1985** 13 cabins **EM710**

Siøfalk



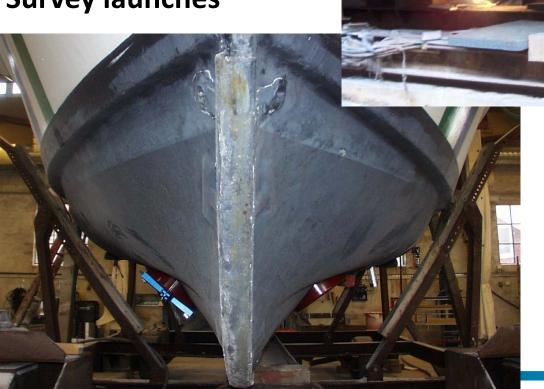
SJØKARTVERKET Length 11.5 m **Built 2003**

3 cabins Speed 15 knots EM3002D

Sjøtroll

MULTIBEAM ECHOSOUNDERS

EM3002D on one of the Survey launches



From the installation of EM710 on R/V Hydrograf

MAJOR FOCUS AREAS FOR SURVEYING

- Norwegian coastal areas
- Svalbard coastal areas
- Selected offshore areas (Mareano)
- Coastal areas:
 - Principal purpose navigation safety
 - Other use of data coastal zone planning, industry, science, ...



THE NORWEGIAN COAST

 More than 20 000 km long (Islands included: 57 000 km)

Norway has 74 523 islands

Large part of coastline above

the Artic Circle.

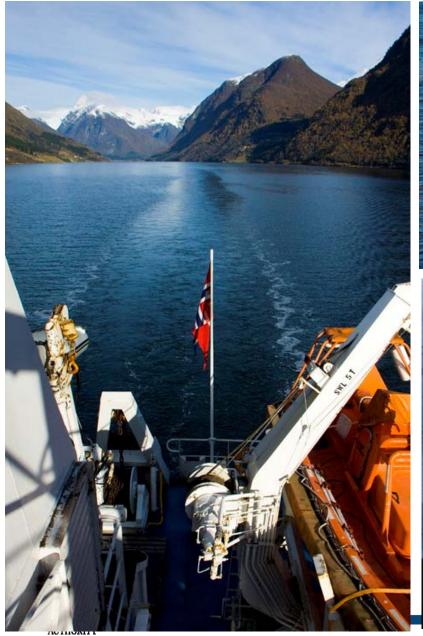


NRCTIC OCEAN

FEDERATION



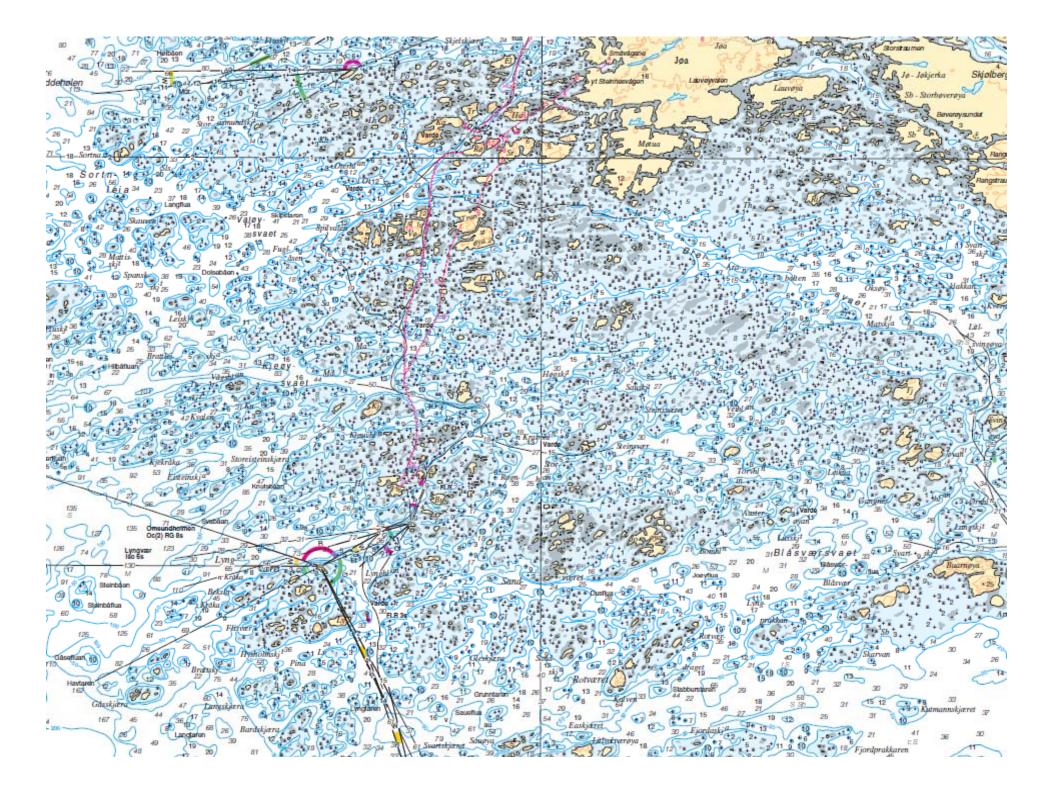
The Norwegian Coast







HYDROGRAPHIC DATA – FOR BENEFIT OF THE SOCIETY



SURVEYING THE FORESHORE

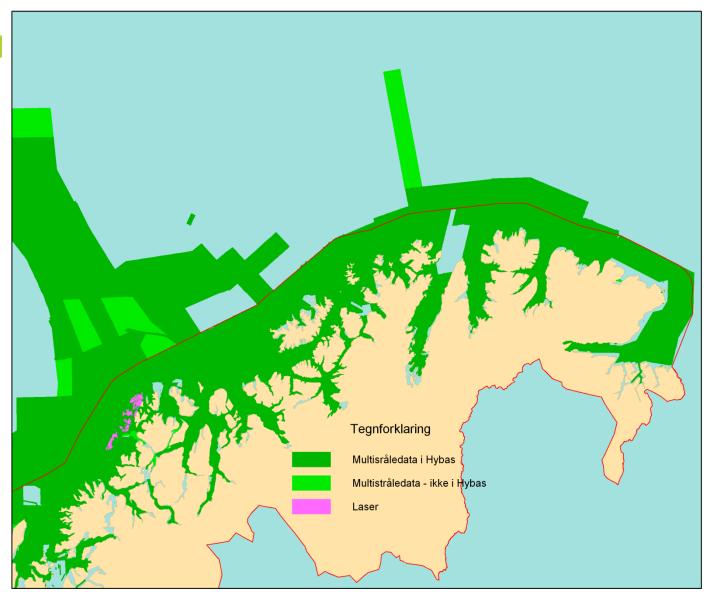




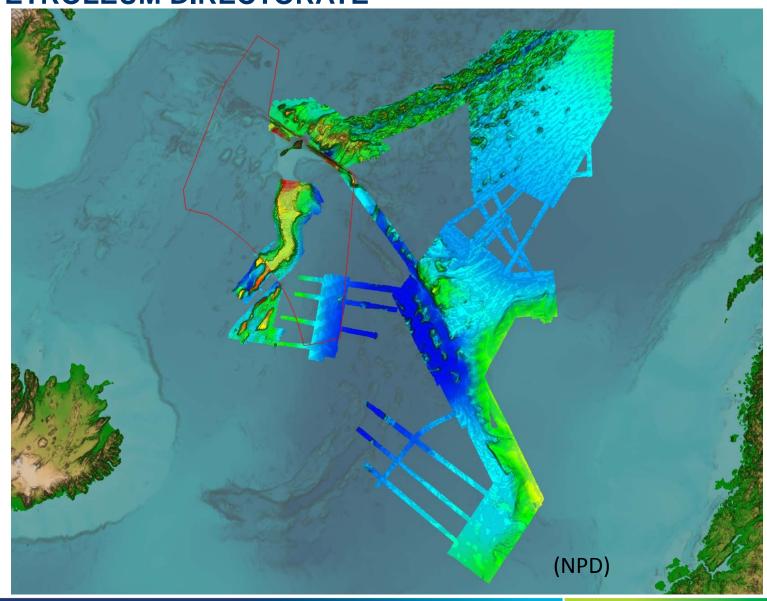


Watching for shoals.....

STATUS SURVEYING NORTHERN NORWAY



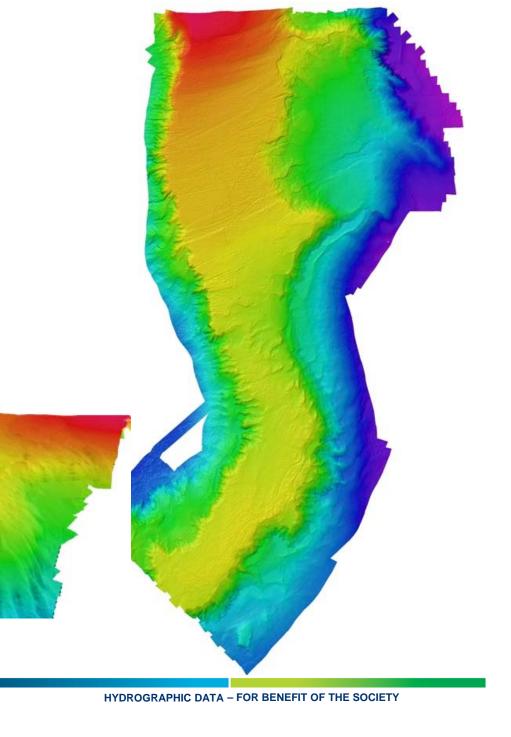
JAN MAYEN: DATA FROM THE NORWEGIAN PETROLEUM DIRECTORATE



JAN MAYEN RIDGE



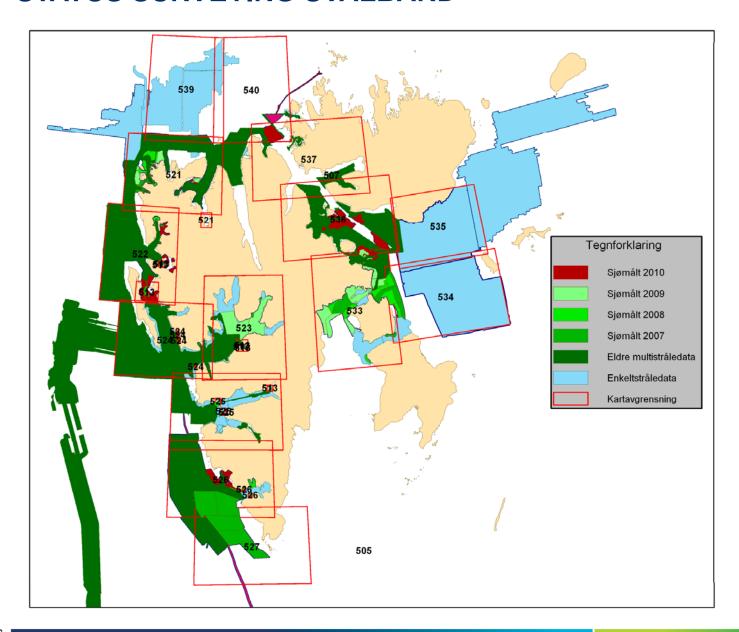
 Surveyed in 2010 by the Norwegian Petroleum Directorate and Iceland Marine Research Institute





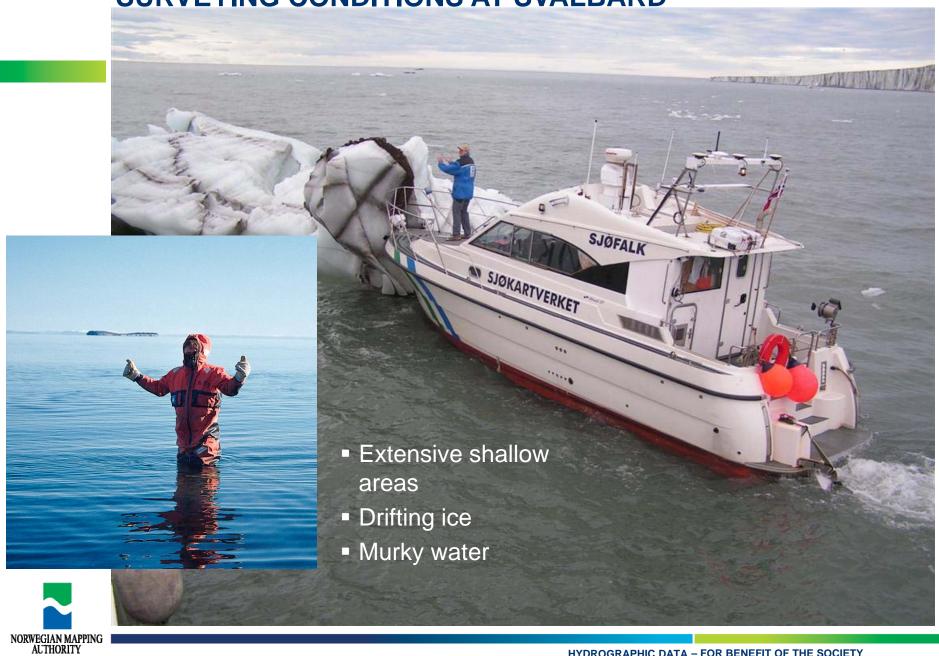


STATUS SURVEYING SVALBARD

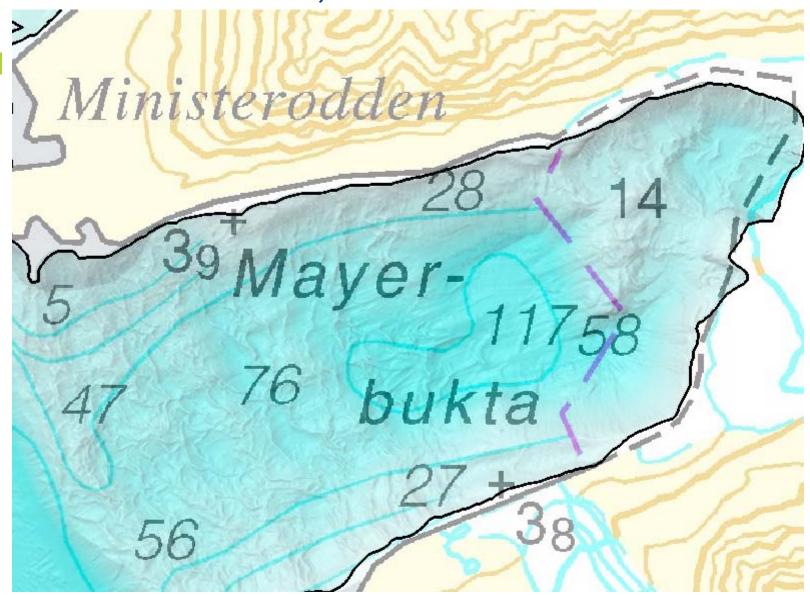




SURVEYING CONDITIONS AT SVALBARD



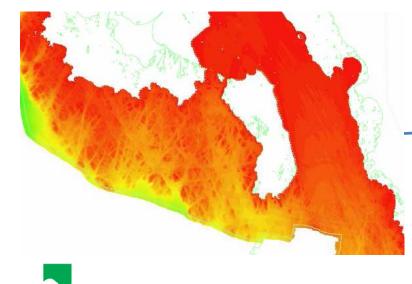
FJORD AT SVALBARD, EM3002 GRID DATA FROM 2010





FUTURE FAIRWAYS AT SVALBARD

- Planning fairways with 3nm buffer
- Aim to cover with multibeam
- multibeam data
- singlebeam data
- 2010 data from Svalbard



NORWEGIAN MAPPING

