

Iceland Marine Research Institute - experiences in sharing vessels with industry, other organizations and nations

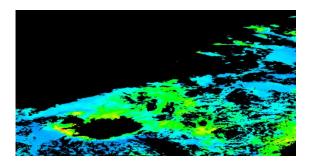
- The Marine Research Institute a short introduction
- Sharing with the industry
- Sharing with Icelandic Coast Guard
- Sharing between nations

Marine Research Institute

Main research priority:

- Sustainable exploitation of main stocks
- Studies of under-harvested species
- •The ecosystem approach to fisheries management
- Research on fishing technology
- Seafloor and habitat mapping
- Mari- and aquaculture
- Climate variations and effects on the ecosystem







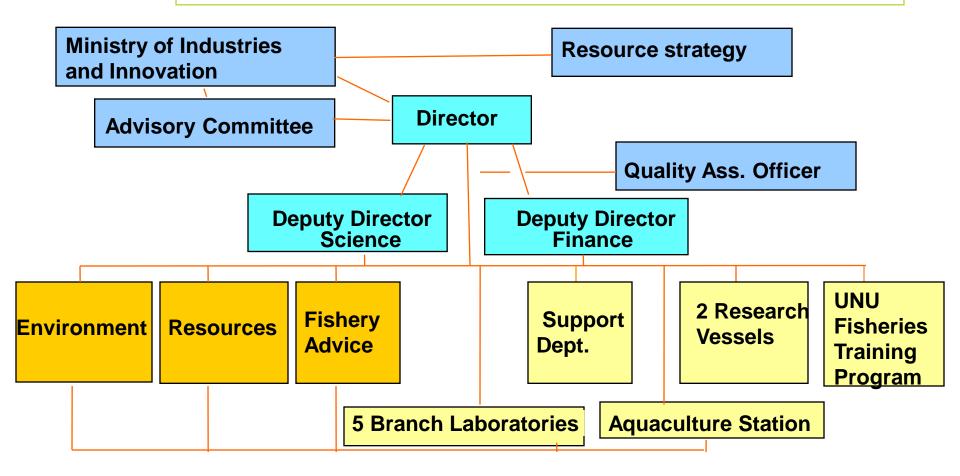


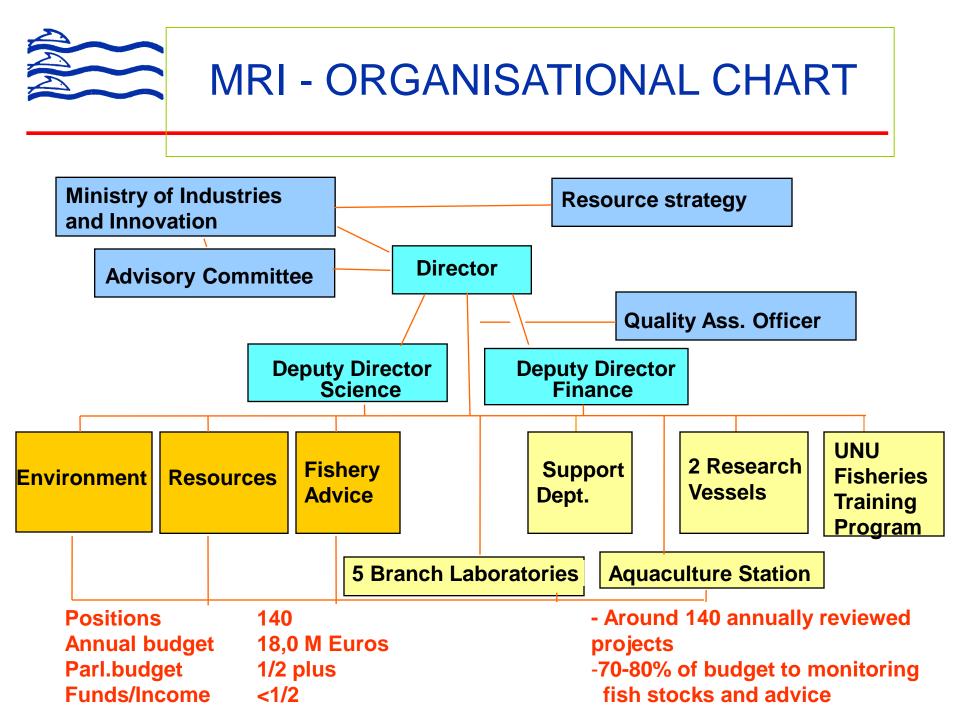




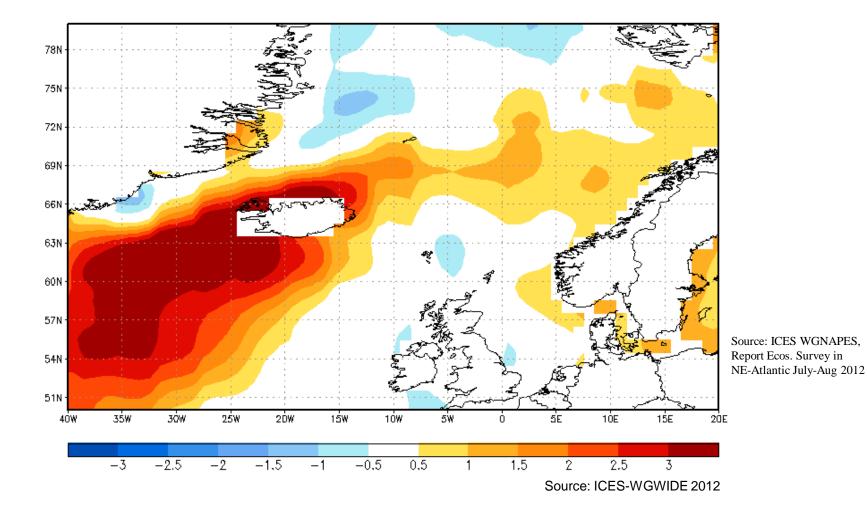


MRI - ORGANISATIONAL CHART



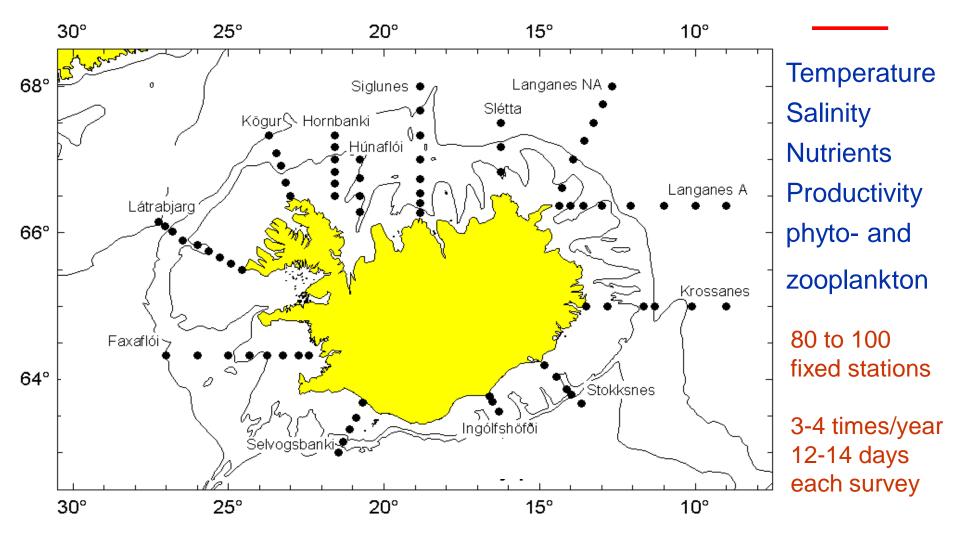


Sea Surface temperature July 2012 Deviation from 20 year mean





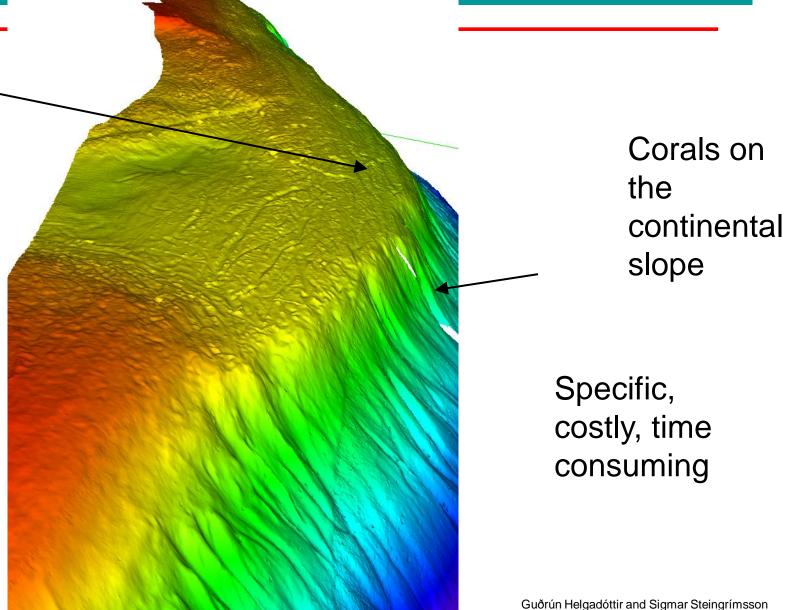
Environmental monitoring





Mapping cold water coral reefs with multi beam

Corals are being found on ridges formed by ancient icebergs



Lophelia pertusa

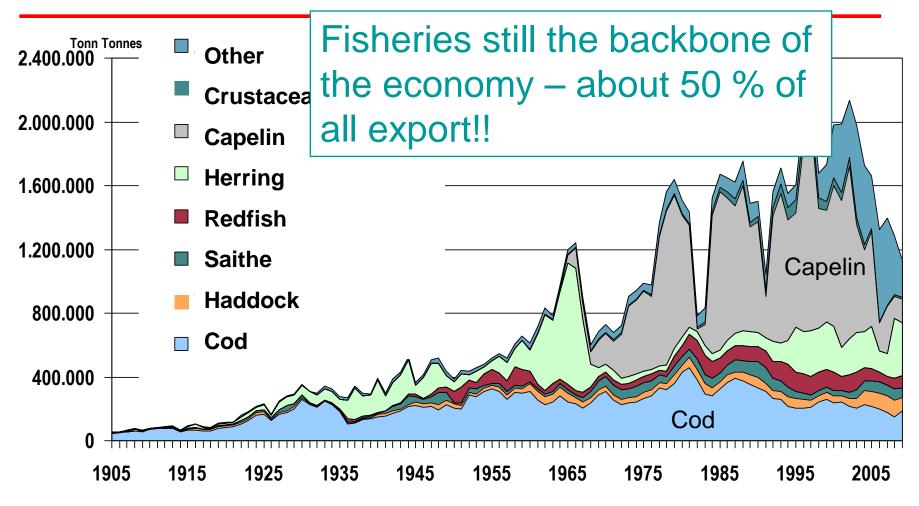
Explored with the help of ROVs

Sigmar Steingrímsson



Iceland: a century of intense harvest

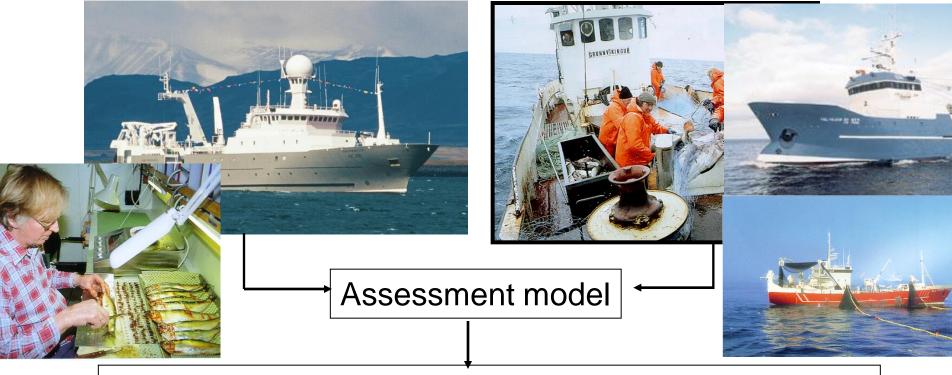
** 1905-1944 afli við Ísland, 1945-2009 afli af öllum miðum



¹⁹⁰⁵⁻¹⁹⁴⁴ afli við Ísland, 1945-2009 afli af öllum miðum

Sharing with the industry Fish Stock Assessment and Annual Advice

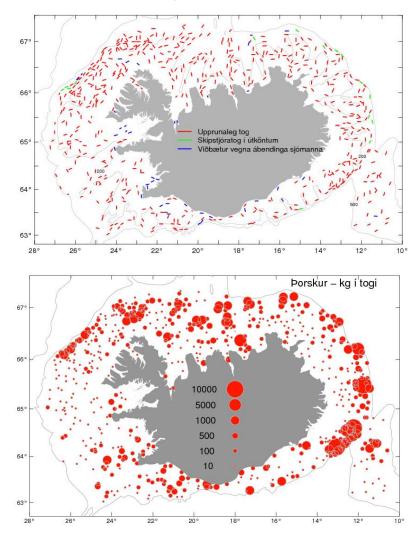
Measured = 1,7 million fish – Aged = 120 thous. fish



Population size, dynamics, fishing rates and forecasts

Marine Research Institute

Groundfish survey: 600 fixed stations to assess distribution and biomass of main species





- Stock assessment is the biggest project every year
- Need to cover all fishing grounds around Iceland
- Need both trawlers and smaller boats
- Very important for the industry positive
- Sharing of knowledge fishermen and scientists



Sharing with the industry how do we do it?

- Leasing vessels through open tenders
- Paying with cash and with catches
- Last two years paying with fish quotas
- Difficulties optaining good vessels
- Fishing vessels are in operation all year
- Little time for research even for lease



Use of vessels in days 2014/2013/2012

RVs Arni Fridriksson 120/176/177

RVs Bjarni Saemundsson 72 /145/158

• Other vessels

380/356/340

Sharing with Icelandic Coast Guard



Sharing with Icelandic Coast Guard

- Public organisations
- Using the same pier
- Personal contacts
- A lot of days at harbour

Sharing with Icelandic Coast Guard

- Public organisations
- Using the same dock
- Personal contacts
- A lot of days at harbour
- But specialzation in crew and vessels not fit for sharing





Sharing between nations

• In the middle of ...



makes sharing vessels challencing



Sharing between nations

- Need for cooperation because of mutual stocks
- Herring
- Capelin
- Red fish
- Mackerel
- Whales
- ...
- and because of hydro and climate research

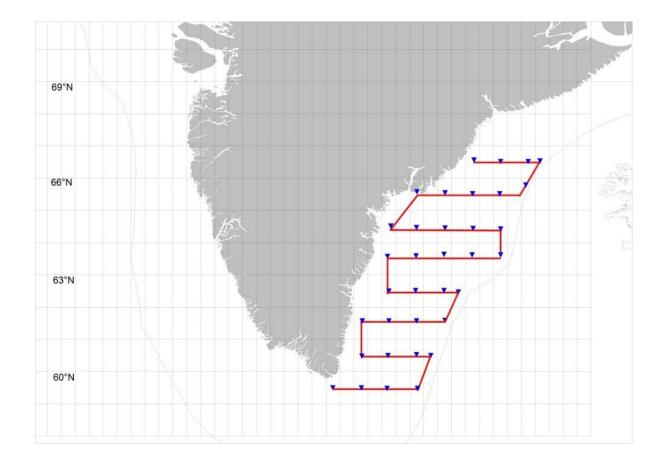


Sharing between nations an example

- Mackerel survey in Greenland waters on RVs Arni Fridriksson
- 12 days each year 2014 and 2015
- Combined with mackerel survey in Icelandic waters
- Total 36 days survey one exchange of crew



Mackerel survey in Greenland





Research Vessels – similiar vessels (fishery, hydro etc.) are in use at the same time because of the nature of the researches. And because of weather conditions in the North Atlantic.

Is sharing vessels for longer periods (weeks) therefore more or less impossible? Or can long time planing and cooperation make better use of underdeployed vessels?



Iceland Marine Research Institute How to you keep control on the captain?





Iceland Marine Research Institute How to you keep control on the captain? KEEP AN EYE ON HIM

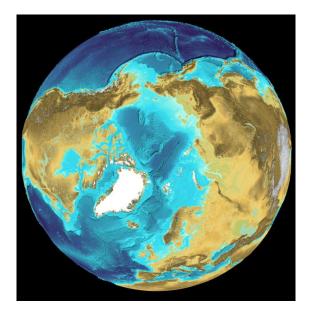


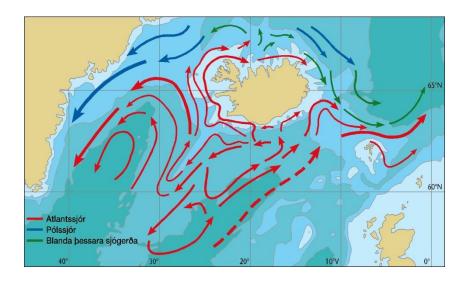


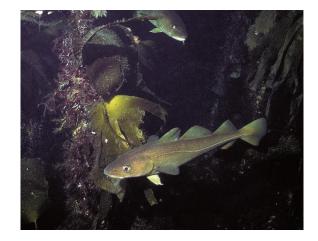
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Thank you

