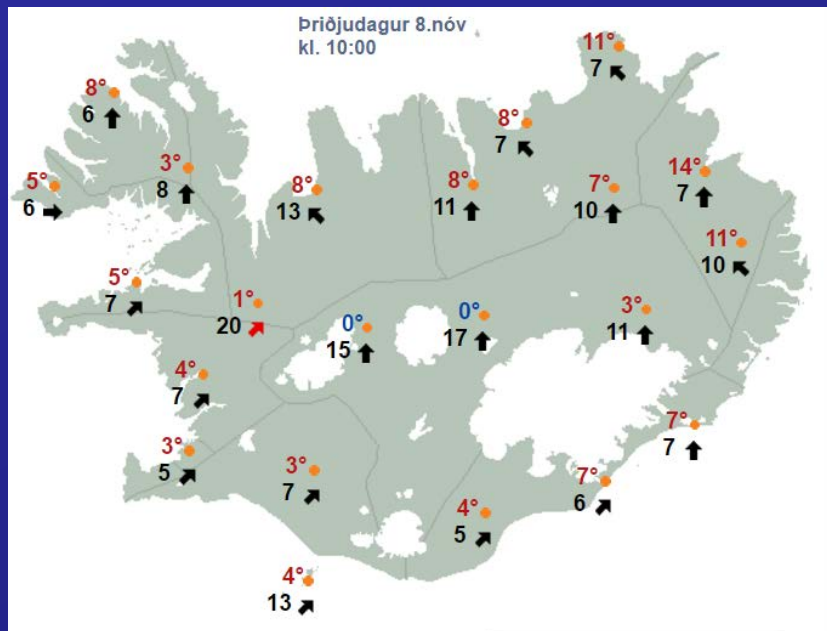


MARSÝN

UPPLÝSINGAKERFI fyrir sæfarendur

Guðrún Marteinsdóttir og Kai Logemann

Sjávarútvegsráðstefnan 2016, Hörpu, 24.-25. nóvember



262 veðurstöðvar



Athugunarstöðvar fyrir ástand sjávar ?

Öldudufli, síritar í höfnum, gervitungl, Hafró

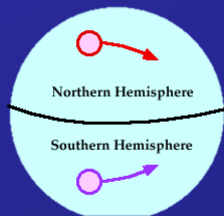
Mikil þörf á upplýsingum um ástand sjávar á öllum dýpum

CODE - 2005-2014

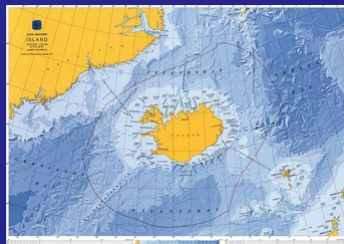
Straumar, öldur, hitastig, selta,
hitaskil, lagskipting
næringaefni, svif (og fiskar)

3 verðlaun fyrir nýsköpun

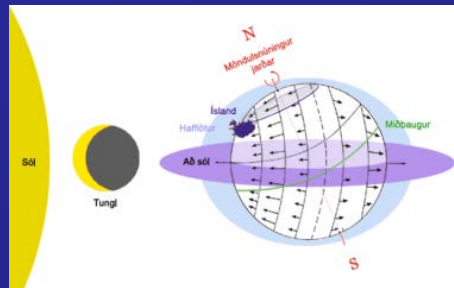




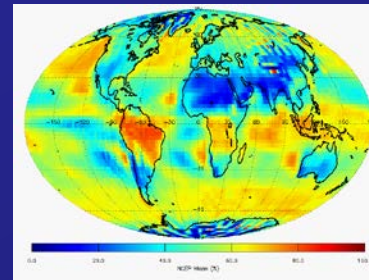
Choriolis



Botnlag



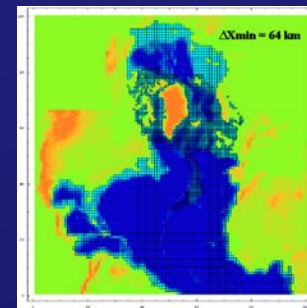
Afstaða tungls og sólar



Vindur, hitastig, loftþrýstingur



CODE



Straumar við
ytri mörk
svæðis

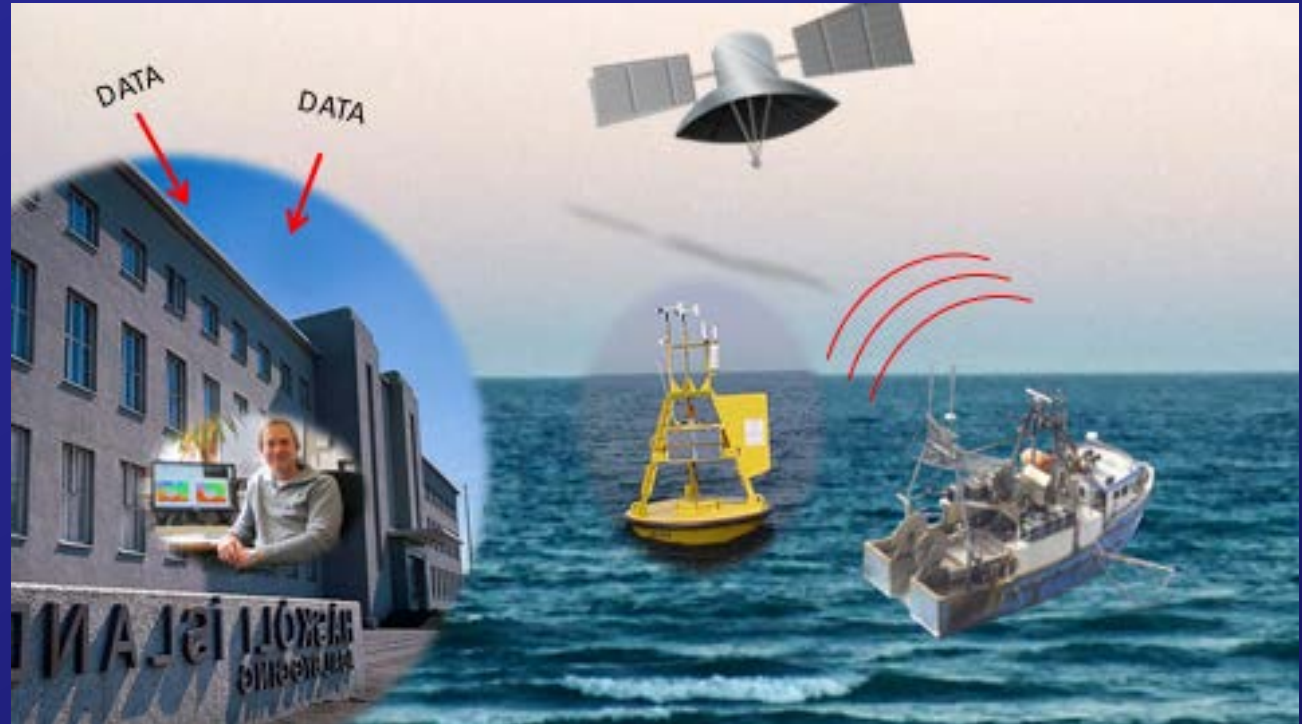
CODE getur nýtt gögn frá skipum



Gögn frá
gervitunglum,
baujum, skipum,
mælitækjum

eru tekin sjálfvirkt
inn í líkanið

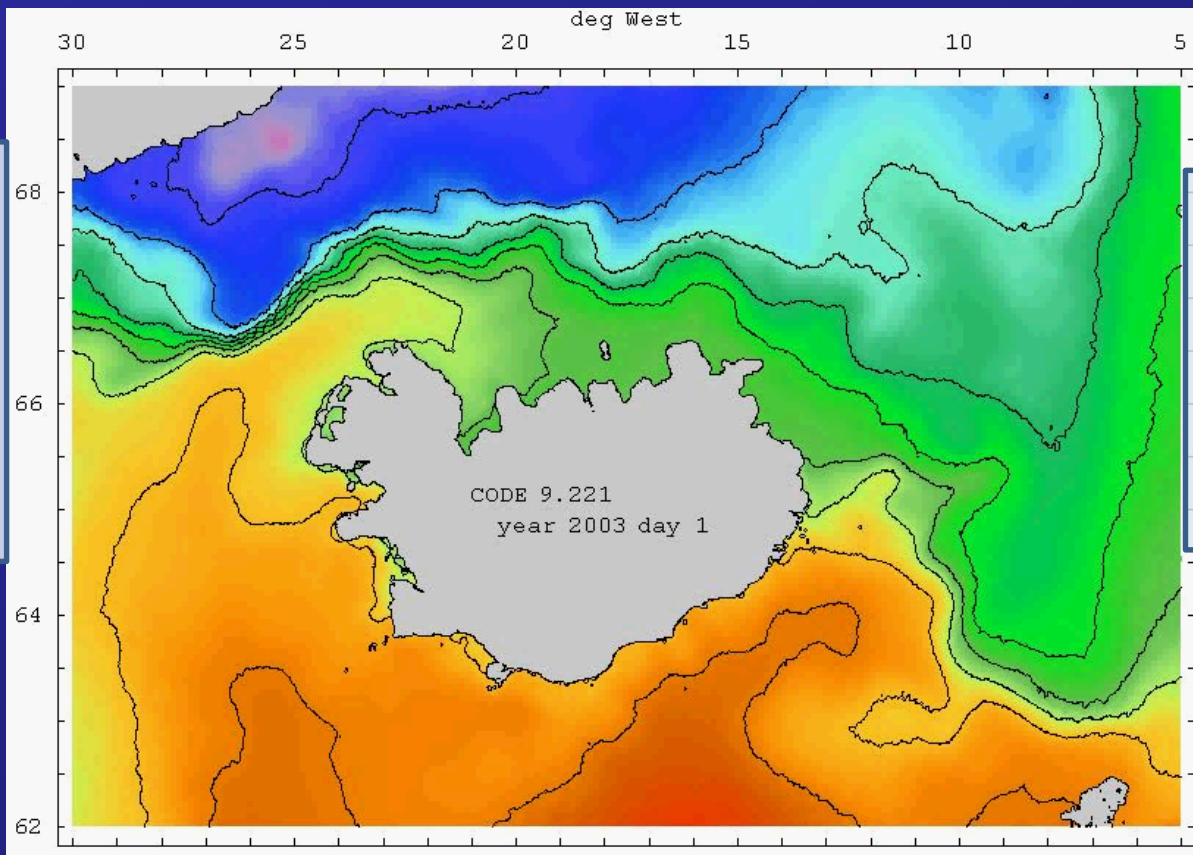
=> Spár fyrir öll dýpi



CODE: hitastig árið 2003



Hnapparnir
sýna gögnin
sem eru að
koma inn



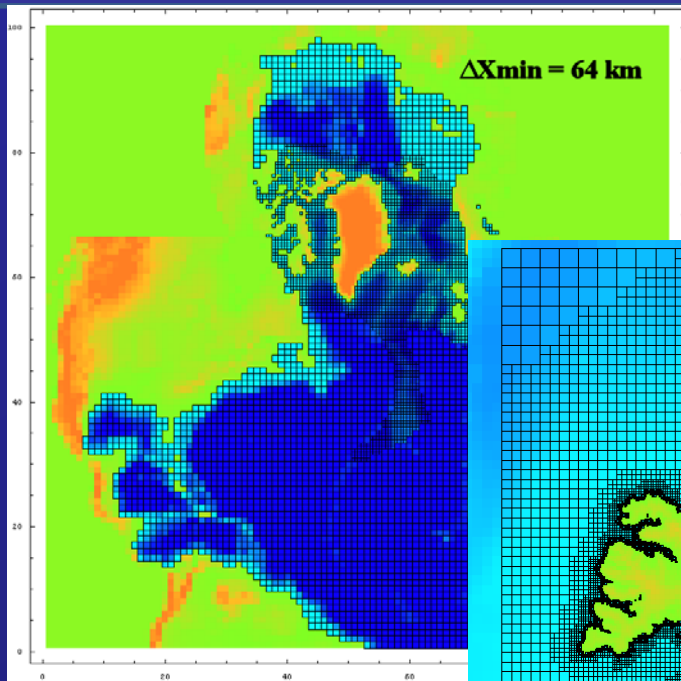
CODE notar
gögnin til að
leiðrétta keyrslur

Hitastig á 50m

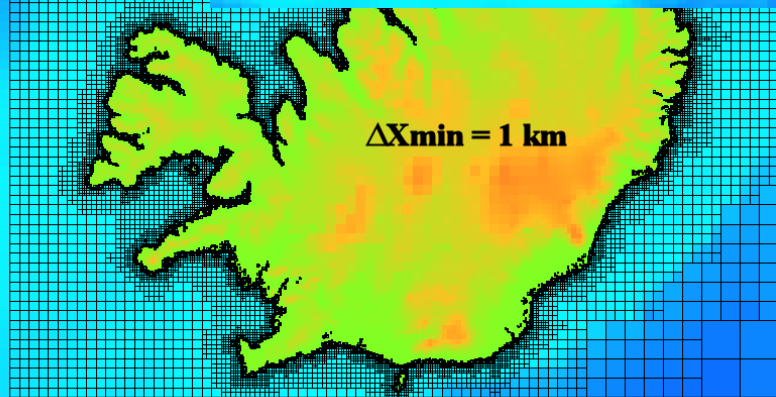
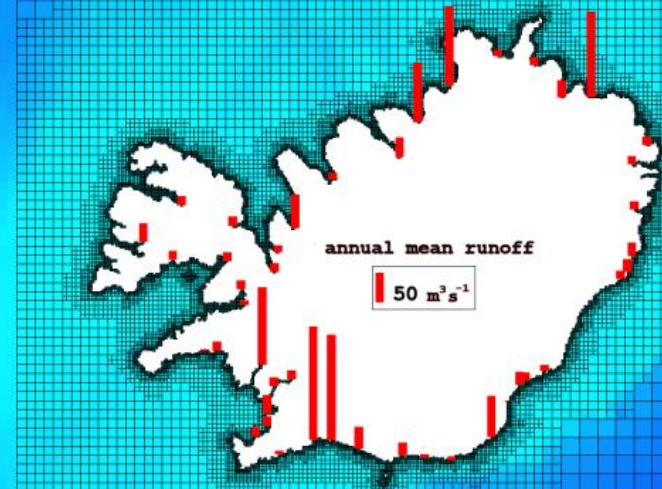
High resolution

Depth: 2.5m
Distance: 1000m

Time: 3 hours



Freshwater runoff





- OCEAN -----

[sea surface elevation](#)

[temperature \(1 m\)](#)

[temperature \(15 m\)](#)

[temperature \(50 m\)](#)

[salinity \(1 m\)](#)

[salinity \(15 m\)](#)

[salinity \(50 m\)](#)

[current \(1 m\)](#)

[hourly](#)

[current \(15 m\)](#)

[current \(50 m\)](#)

- SEA STATE -----

[significant wave](#)

[height](#)

- ECOSYSTEM -----

[nitrate](#)

[silicate](#)

[phosphate](#)

[flagellates](#)

[diatoms](#)

[micro/meso](#)

[zooplankton](#)

[macro zooplankton](#)

[fish](#)

[chlorophyll \(sat](#)

[image\)](#)

- ATMOSPHERE -----

[air pressure](#)

[wind speed \(m/s\)](#)

[wind speed \(Bft.\)](#)

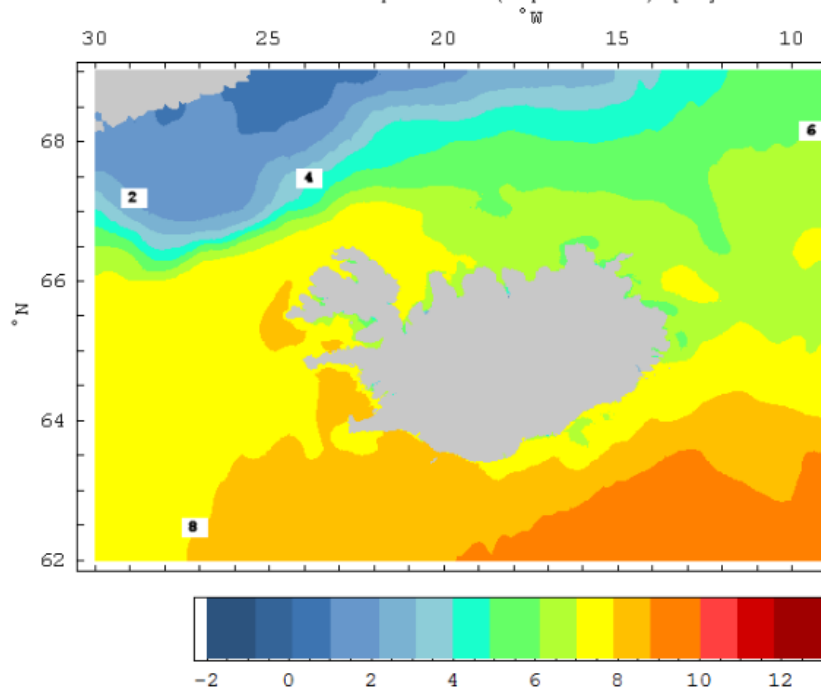
[air temperature](#)

[precipitation](#)

[cloud cover](#)

CODE 000 hour forecast Valid: Mon 07.11.2016

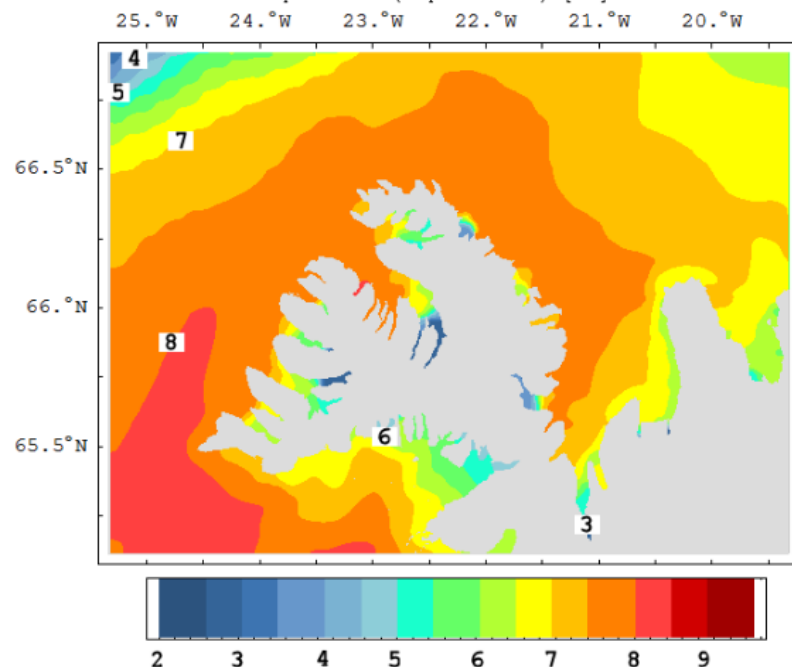
temperature (depth = 1 m) [°C]



Previous Animate Next

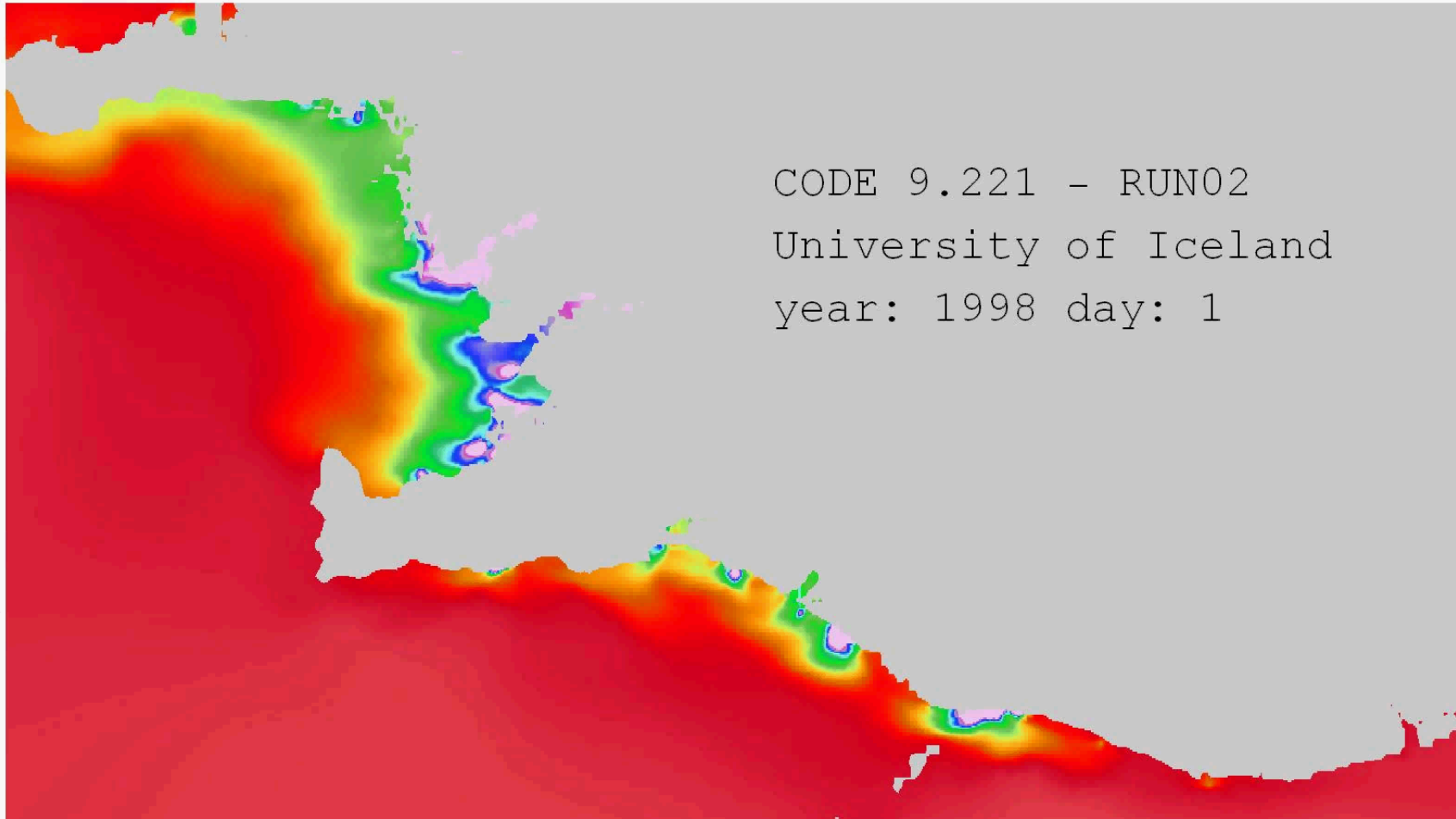
CODE 000 hour forecast Valid: Mon 07.11.2016

temperature (depth = 1 m) [°C]



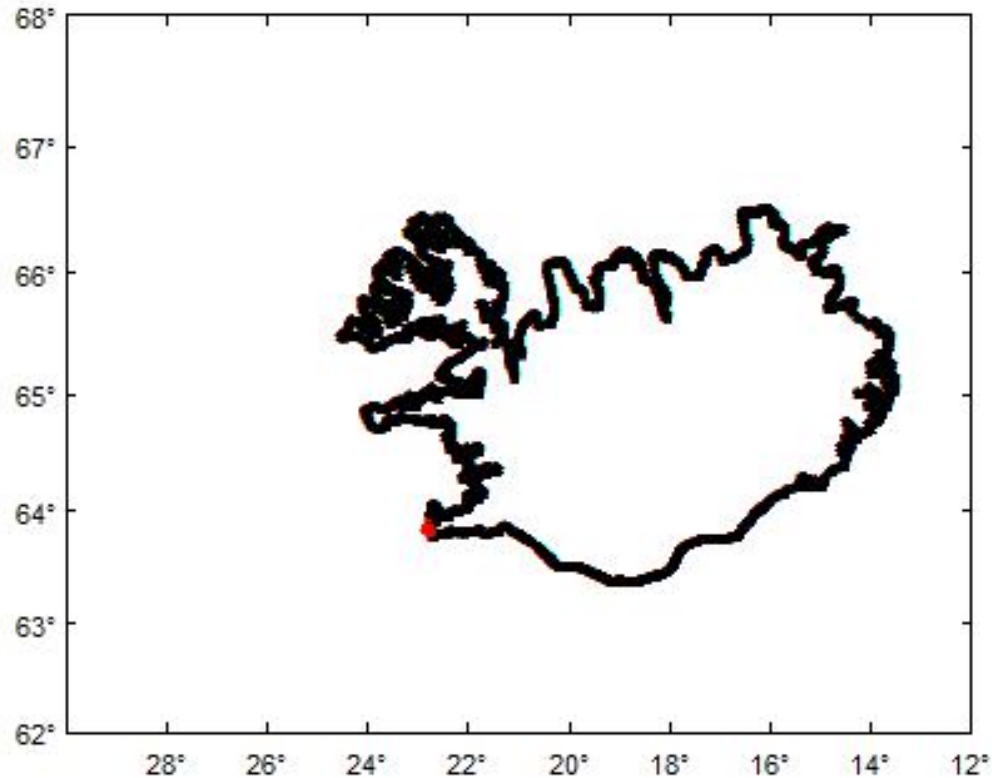
Previous Animate Next

www.marsyn.is/sjospa



CODE 9.221 - RUN02
University of Iceland
year: 1998 day: 1

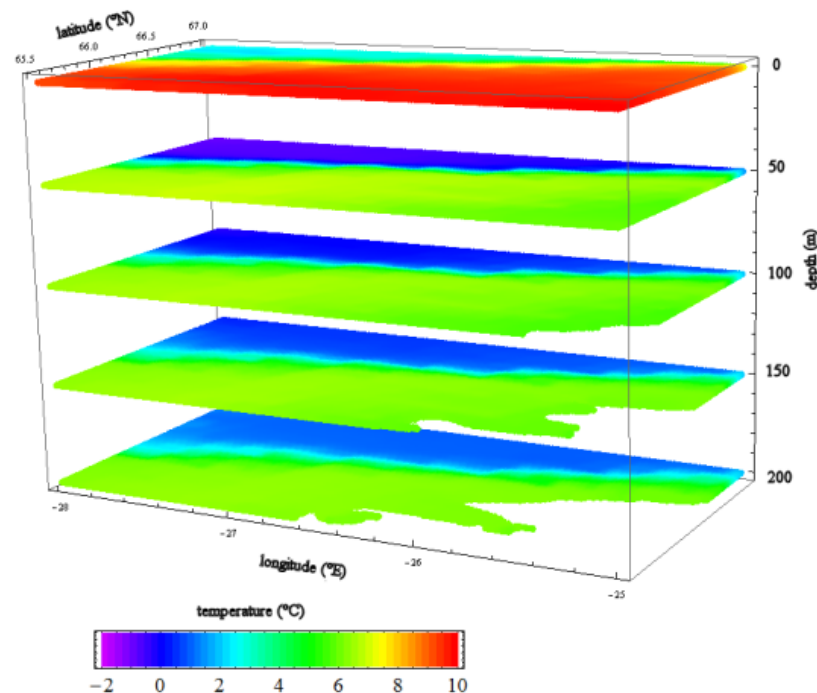
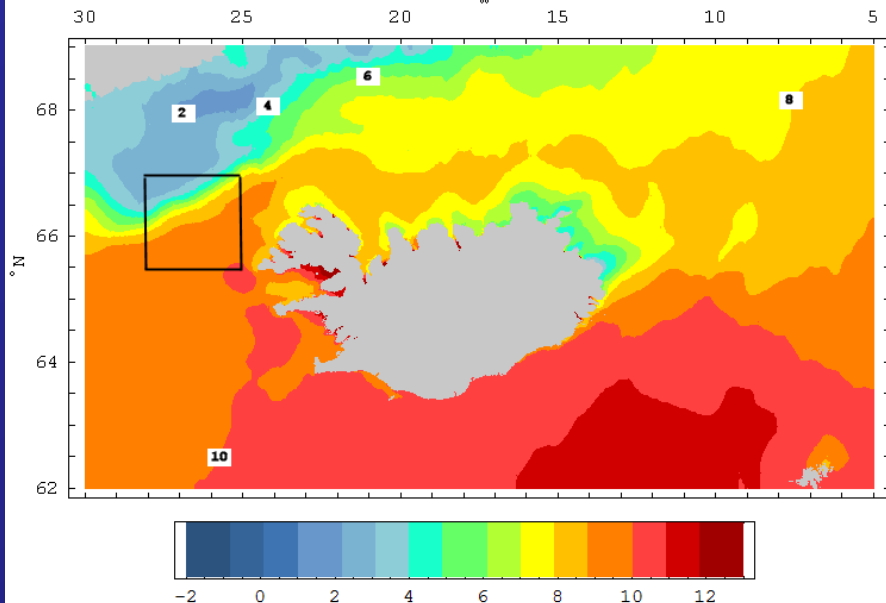
Rek þorskeggja og lirfa



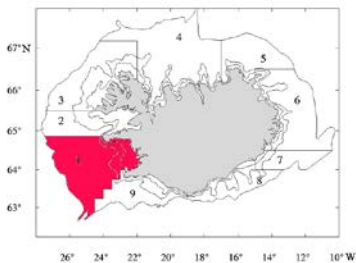
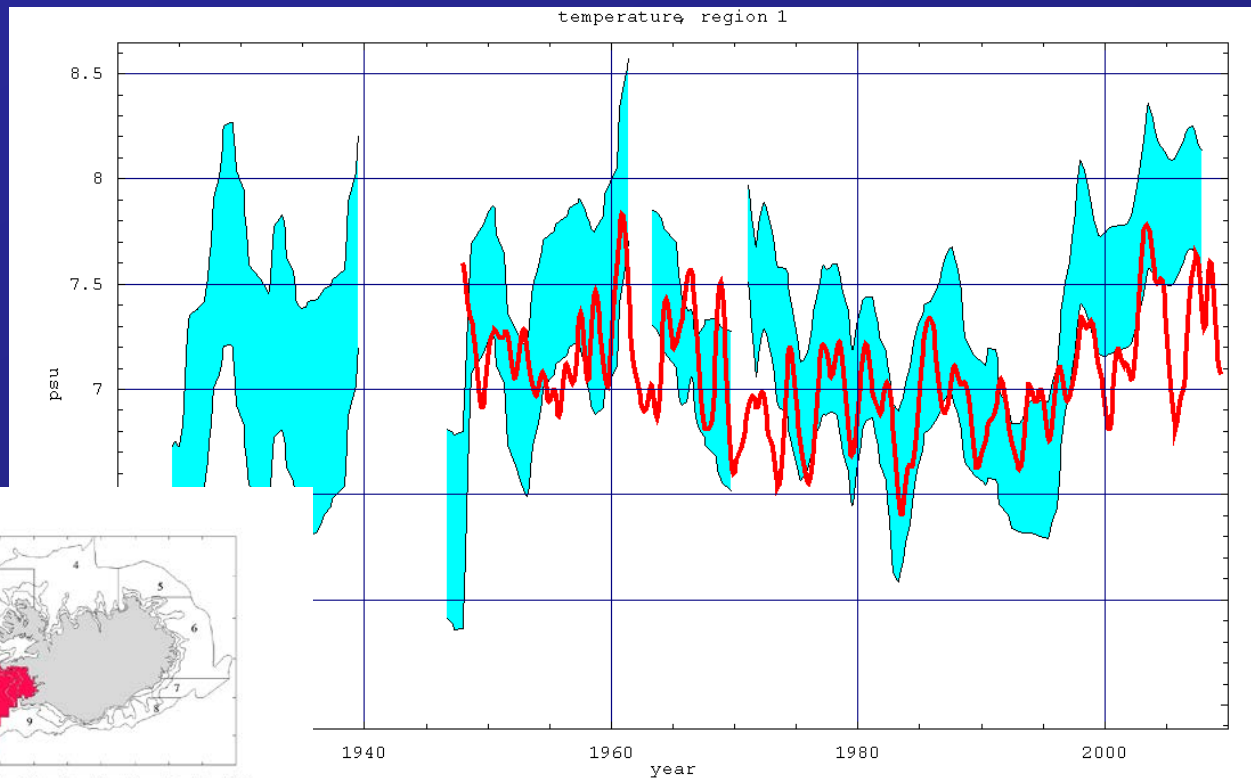
Hitaskilin á Hampiðjutorgi

CODE 000 hour forecast Valid: Mon 20.06.2016

temperature (depth = 1 m) [°C]



Sögulegur gagnagrunnur (1948-2014)

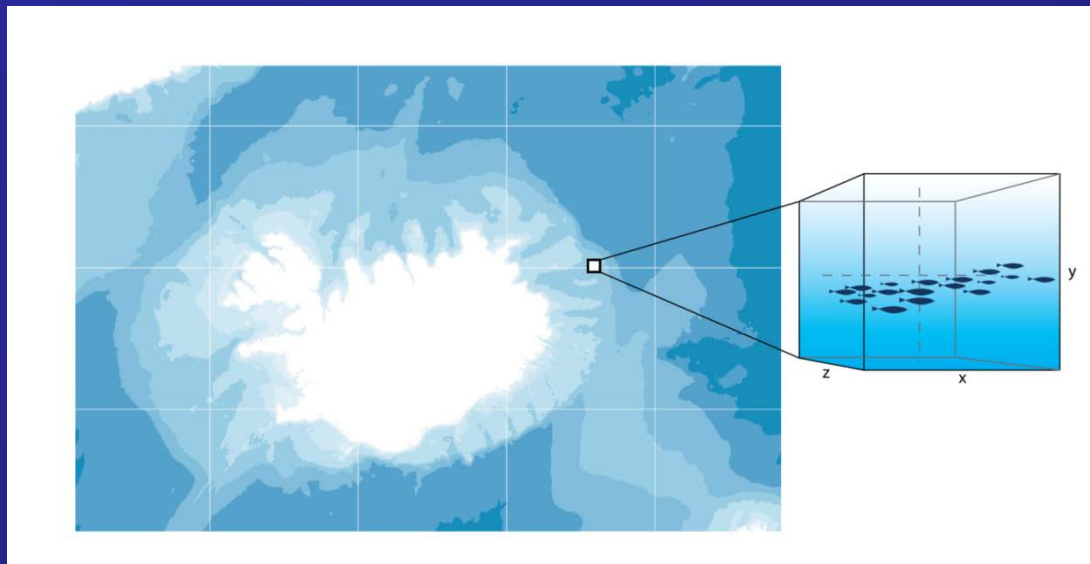


Ocean conditions
(currents, T, S) in
high resolution
every 3 hours back
to 1948.

Sögulegur þrívíddarheimur



Skoðum atferli fiska í tengslum við umhverfið á árunum 1948-2014

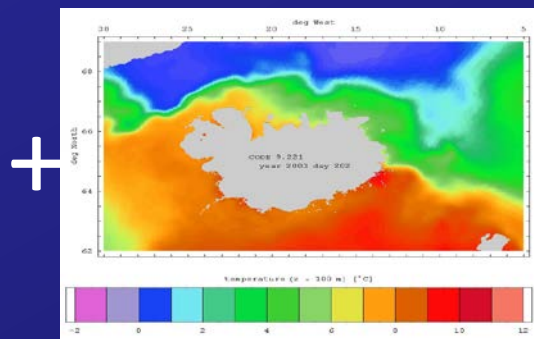


Notum þessa þekkingu
til að spá fram í tímann

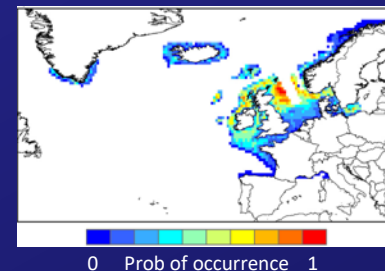
Fisktorfur



Umhverfispættir



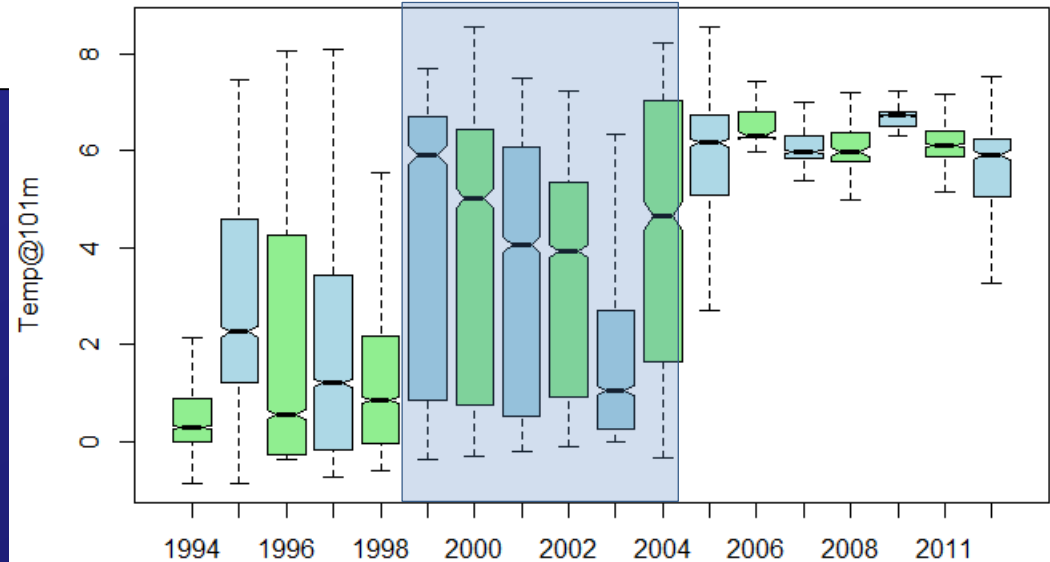
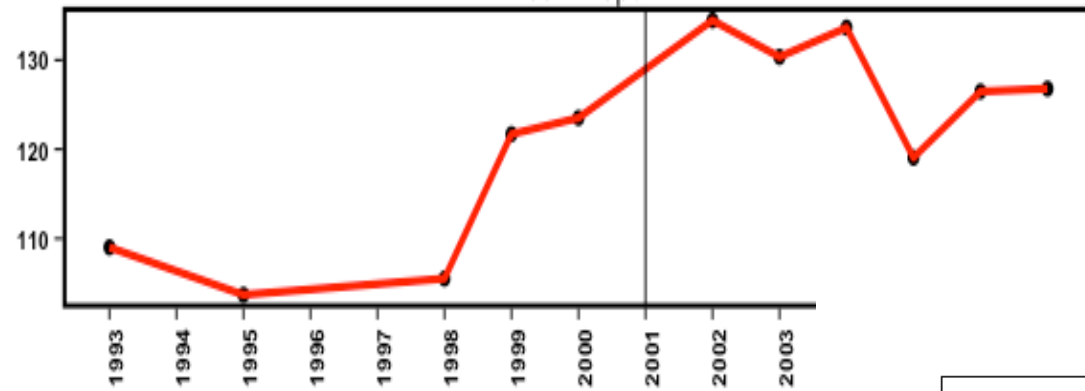
Útbreiðsla



Dýpi loðnutorfa

105 -> 120 -> 135m

Mean Depth

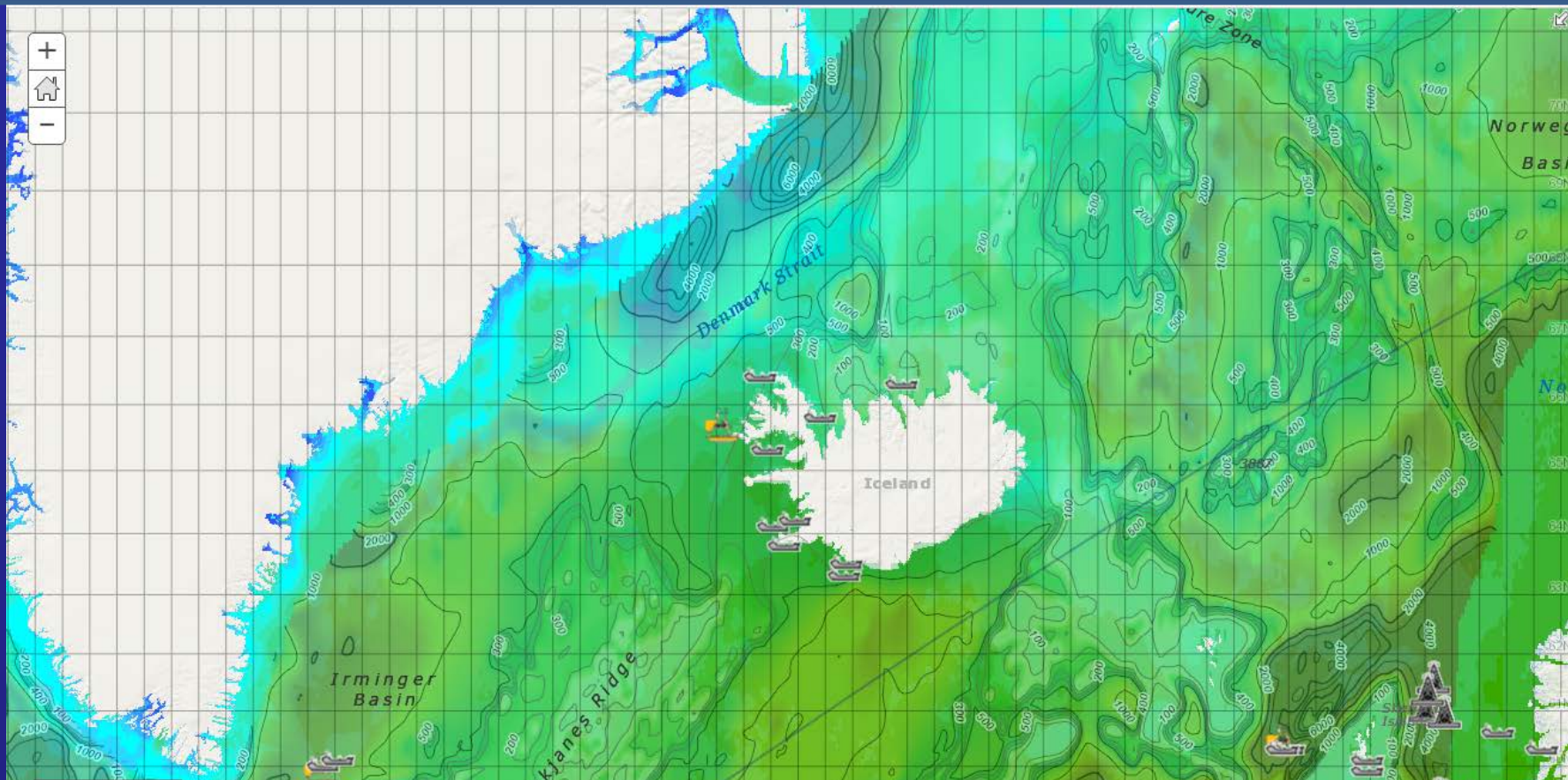


Meðalhiti við torfur
0-4° -> 1-7° -> 5-7°

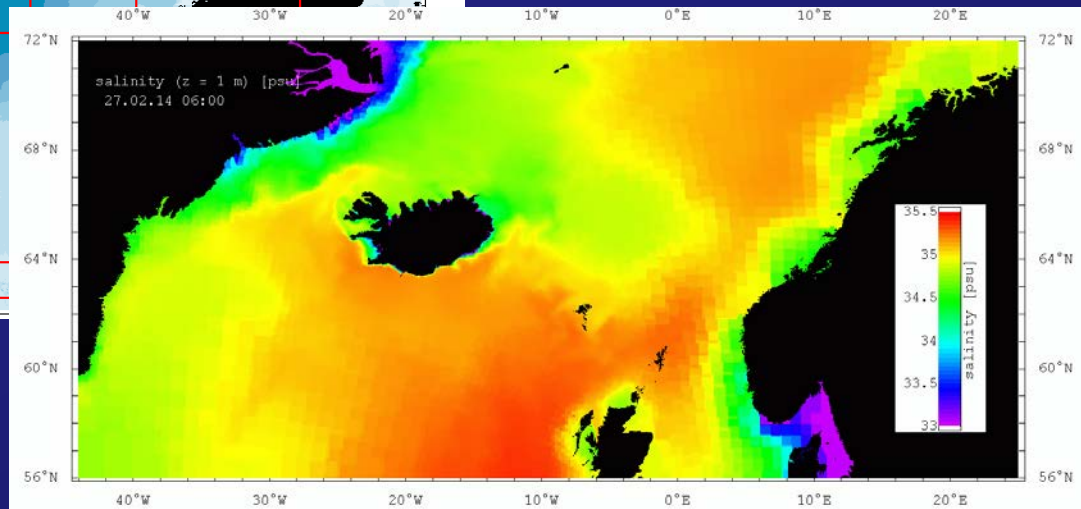
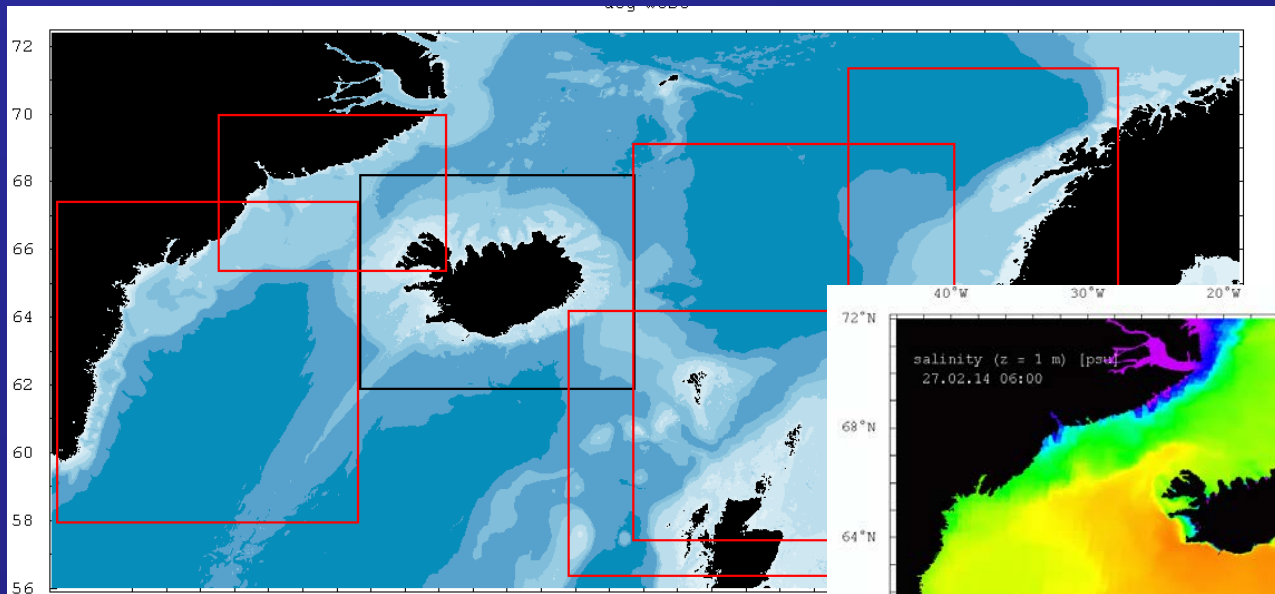
Næstu skref

Viðmót fyrir notendur
Stækkun svæðis
Markaðssetning

Gagnvirt viðmót fyrir skipstjóra

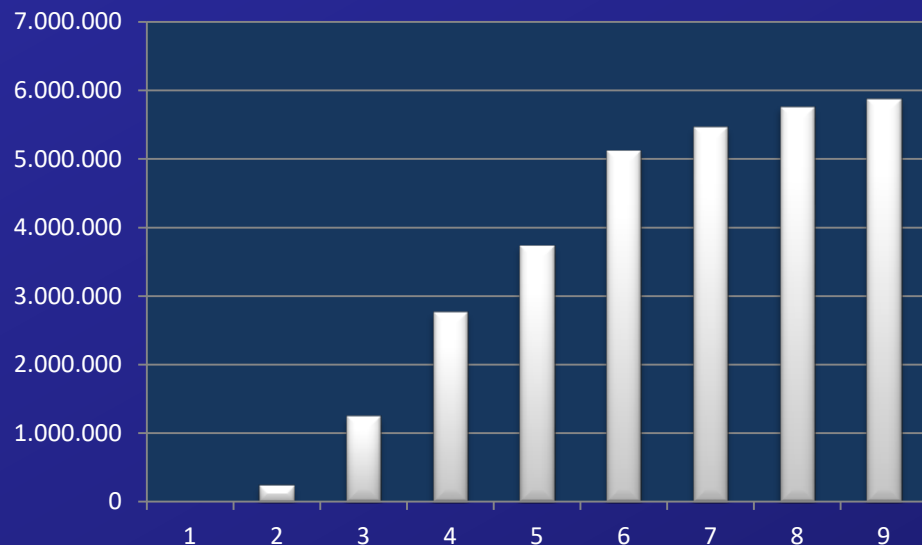


CODE fyrir stærri svæði



North Atlantic Information System

Áætluð velta (Evrur)



Markaðir: Iceland, Grænland
Færeyjar, Noregur, Danmörk, Skotland

Mánaðarverð fyrir upplýsingakerfið

NAIS 101 – 600 € - Fish Searching Tools

NAIS 1 – 300 € - Hydrodyn. + Ecological

NAIS 2 – 150 € - Hydrodynamic forecats

NAIS 3 – 40 € - Historical 3D world

- CODE er þróað fyrir íslenskar aðstæður
- CODE byggir á íslenskum gögnum



- CODE lýsir ástandi sjávar í hárri upplausn
- CODE getur spáð fyrir um staðsetningu fiskitorfa

CODE kerfið er tilbúið en fjármagn er þrotið!

Hefur Íslenskur Sjávarútvegur áhuga ?

Hafið samband við Guðrúnu
Sími 663-0012 - runam@hi.is