

FarCoast800

- Føroysk havmodel fyri Føroyar

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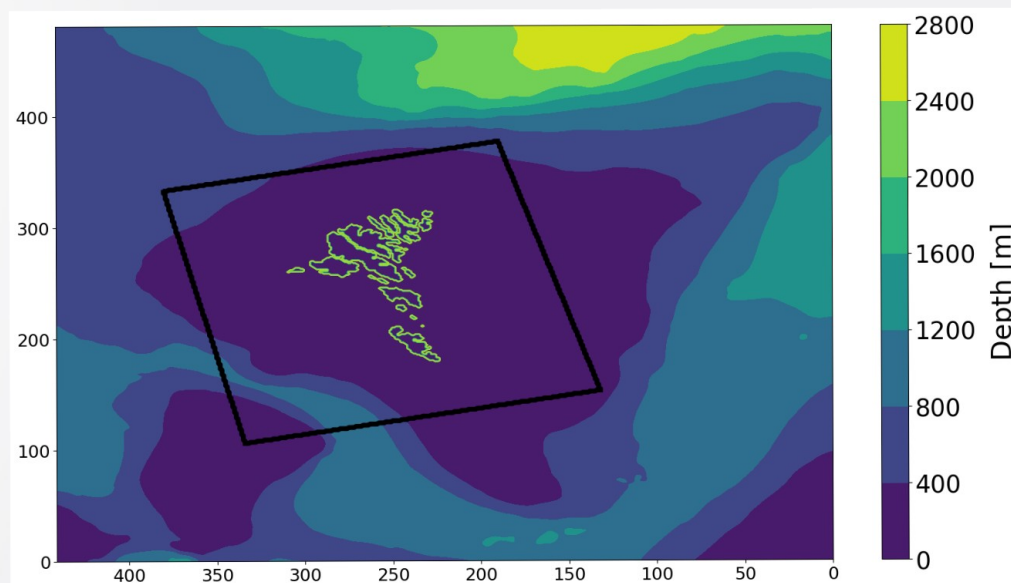
Aliráðstevnan, 2020



FarCoast800

Føroysk havmodel fyri Føroyar

- Seta 3D numerisk havmodel upp fyri Føroyar → simulerað rákið í firðinum við høgari uppløysing
- NorKyst800, útvikla á IMR
- FarCoast800 randir:
 - SVIM havmodel (4x4 km)
 - WRF, Veðurmodel (1x1 km).
 - (WAUW!!)
- FarCoast800 koyrt fyri alt 2013
 - Hexagon (IMR) (Supertelda)



Mynd 1: Økið sum FarCoast800 dekkar,
Innara fjórkatur uppskót til FarCoast160.

FarCoast800

Hvat kann tað brúkast til?

- Dynamik, útsifting á firðum
- Vísindalig, gransking, mátingar
- Forsøgn (meira teldu meg)

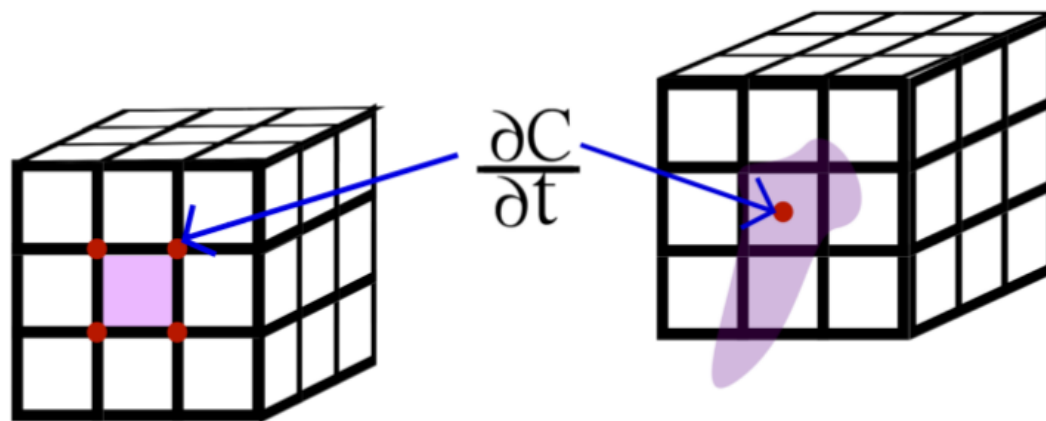
BioGeoChemical modellering:

- Laksalús: spjaðing og fysikk
- Sedimentir: flyting, deposition
- Algur: smittu, nøgd
- Evnafrøði: oxygen, tøðevnir



Numerisk skema

Numerical schemes, Eulerian is advantageous for 3D modeling

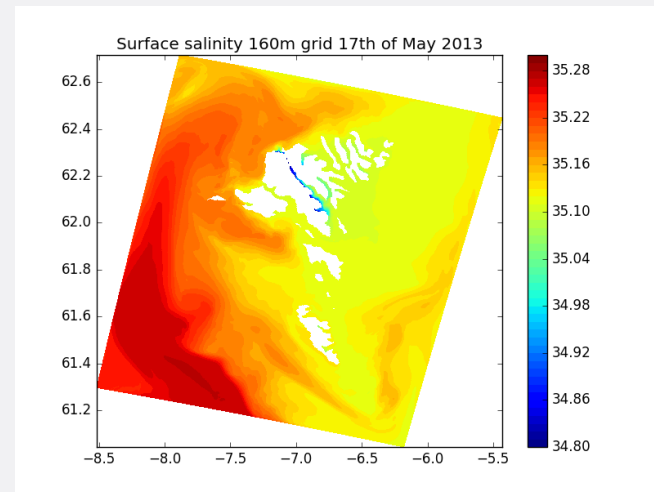


↩ Eulerian and Lagrangian ↗

When looking at transport, how to calculate derivative in departure cell?

Áir í Sundalagnum

- Feskvatns punktkeldur til Sundalgið
- T.D. Eiðis verkið
470.509 m³/dag

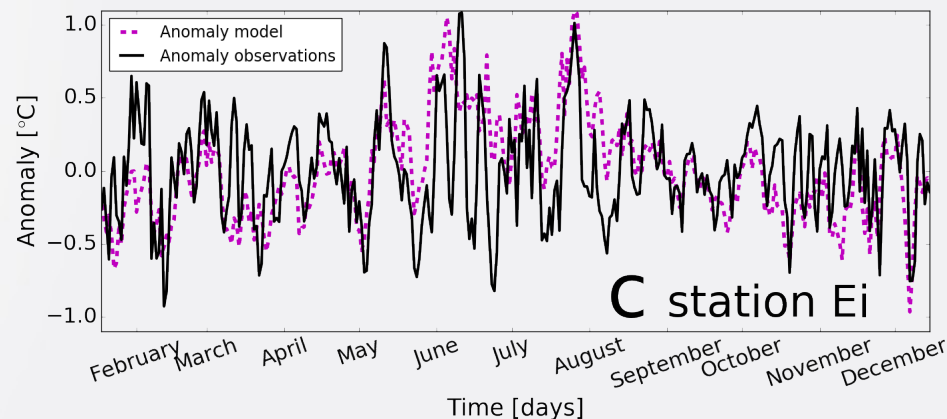
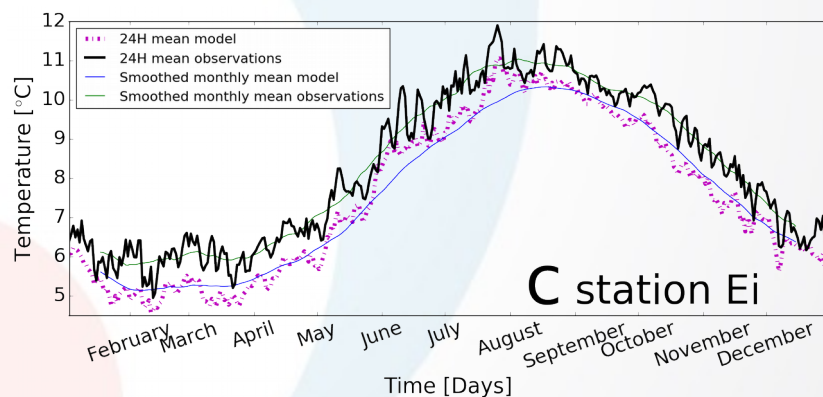
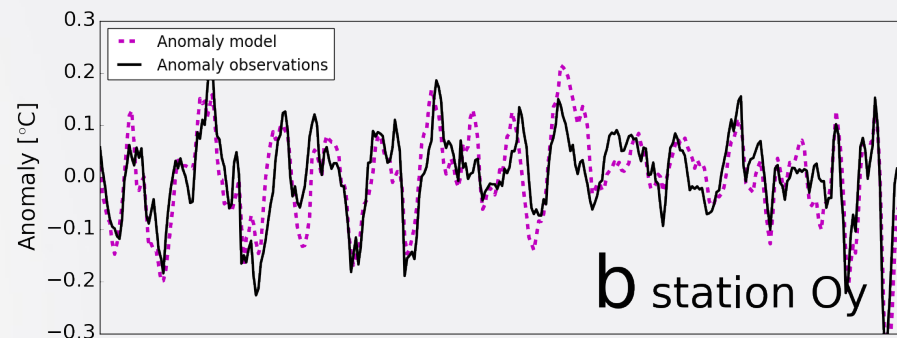
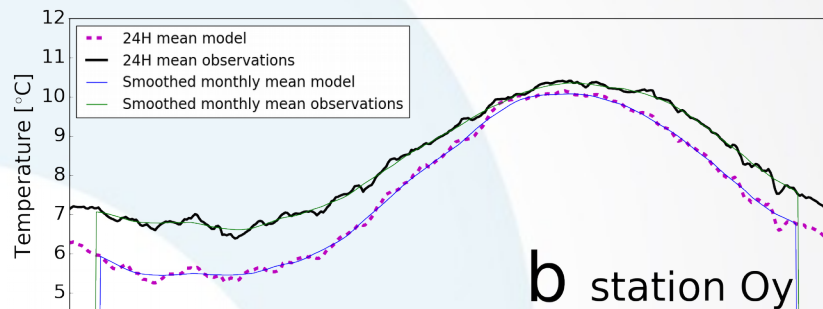


Mynd: Salt nøgd 17. mai 2013

Talva 2: The stations implemented as part of fresh water forcing in ROMS for Sundalagið.

number	latDegreeMinSec	longitude	name[location]	water m3 [anualvol]	water m3 [daily]
001	621730.48	70445.55	Eidisverkid	171735897	470509
002	621633.59	70530.89	Haldorsvik	63440000	173808
003	620920.53	65227.63	BreidaSelatrad	16794897	46013
004	620909.16	65622.4	Hosvik		
005	621120.72	70139.16	StoraHvalvik	83308445	228242
006	620340.16	65238.66	TyggjaarKaldbakk	29205845	80016
007	620657.21	65415.13	SjovararKollafirdur	23055000	64164

Strondar støðir



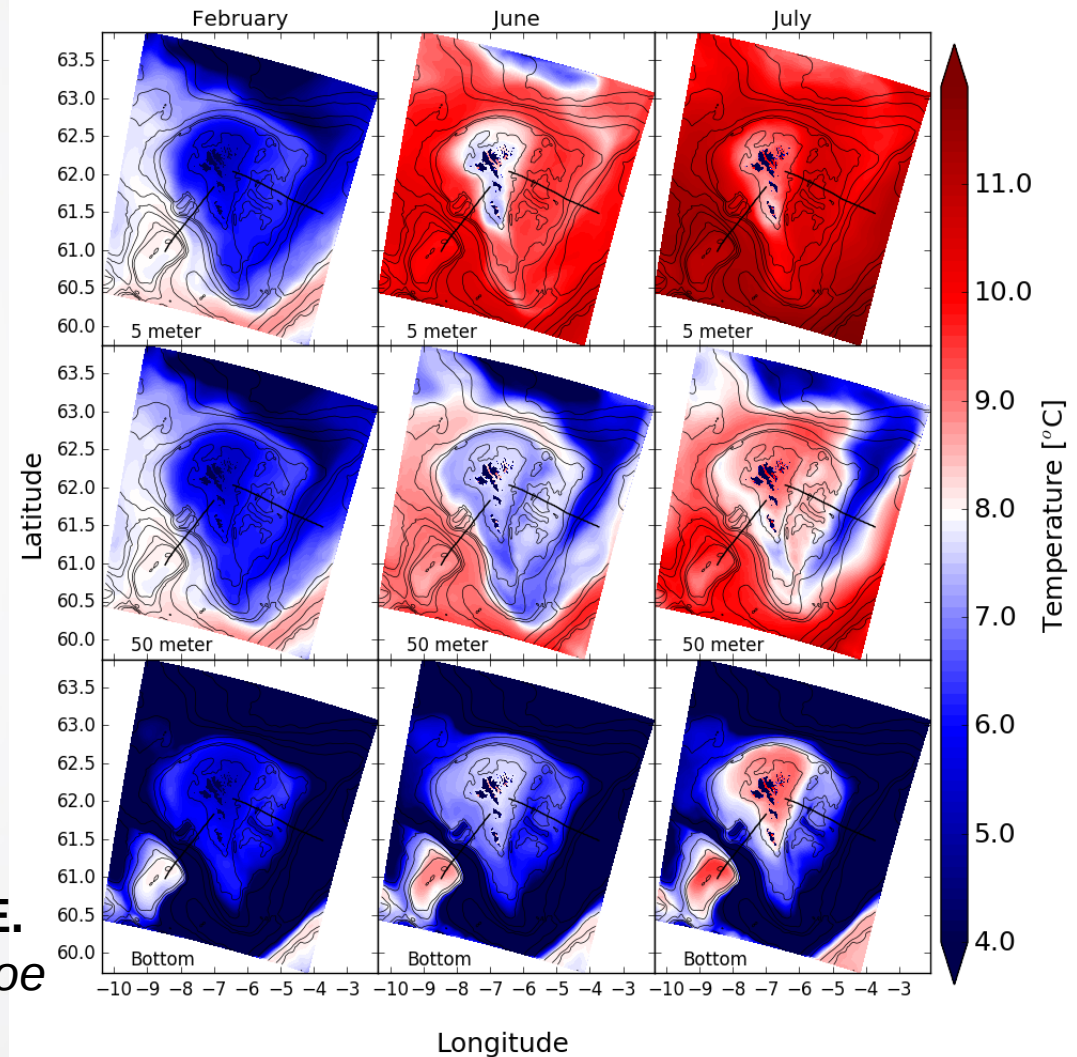
In review:

Erenbjerg, SV, Albretsen, J., Simonsen, K., Sandvik A., Kaas, E.

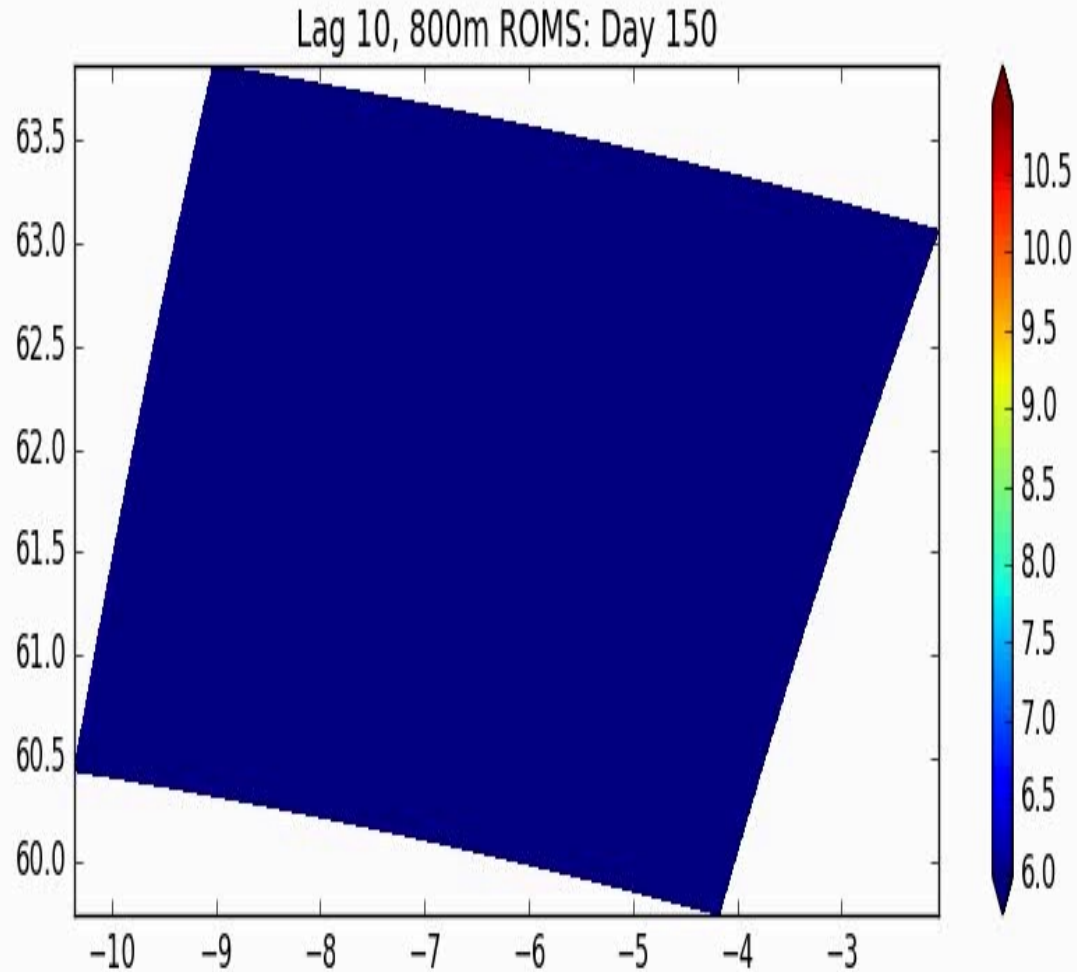
High resolution modelling of the Faroe shelf circulation.

Hvaðani kemur siógvurin?

In review:
**Erenbjerg, SV, Albretsen, J.,
Simonsen, K., Sandvik A., Kaas, E.**
*High resolution modelling of the Faroe
shelf circulation.*



Simulering



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