



HAVSTOVAN
FAROE MARINE RESEARCH INSTITUTE



Vísinda *vøka*
– á ferð



Hvat kunnu makrelegg brúkast til?

Vísinda *vøka*



Sólvá Káradóttir Eliassen

Klaksvíkar bókasavn
13. september kl. 19



HAVSTOVAN
FAROE MARINE RESEARCH INSTITUTE

Makrelrogn?

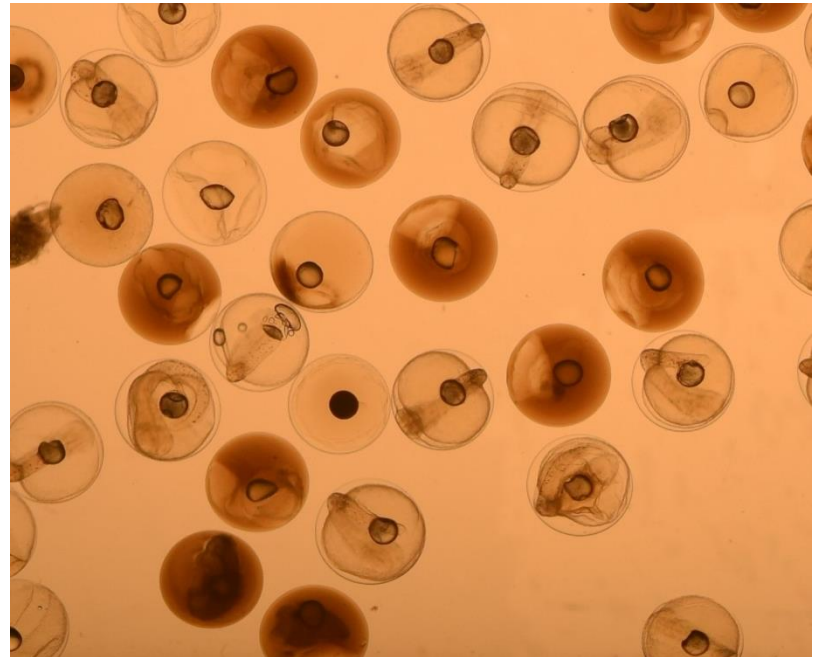
Ikki gýtt



Makrelegg?

Gýtt (og troðin) egg

12-18 dagar at klekja

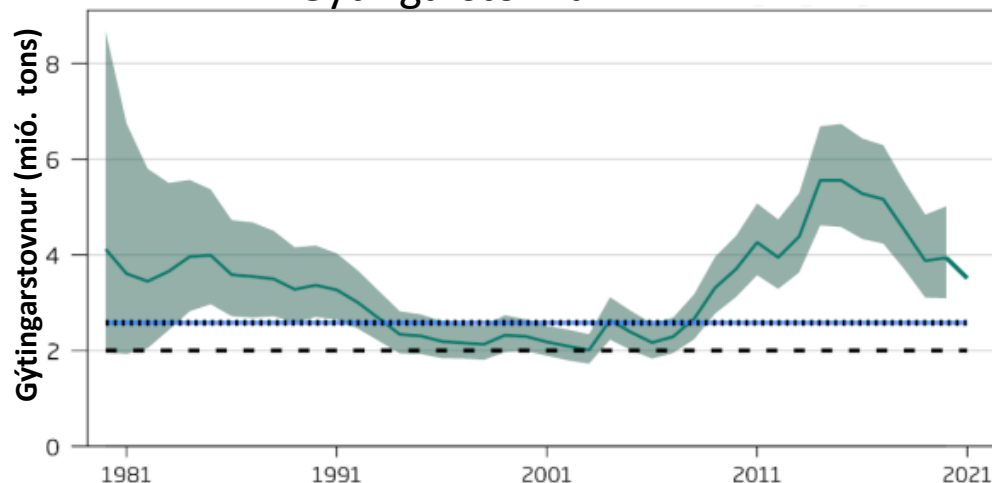


Hvat kunnu makrelegg brúkast til?

- Matna – kaviar ?
- Vitaminúrdráttir ?
- Makrelaling ?
- At finna útav hvussu makrelstovnurin er fyri ?



Gýtingarstovnur

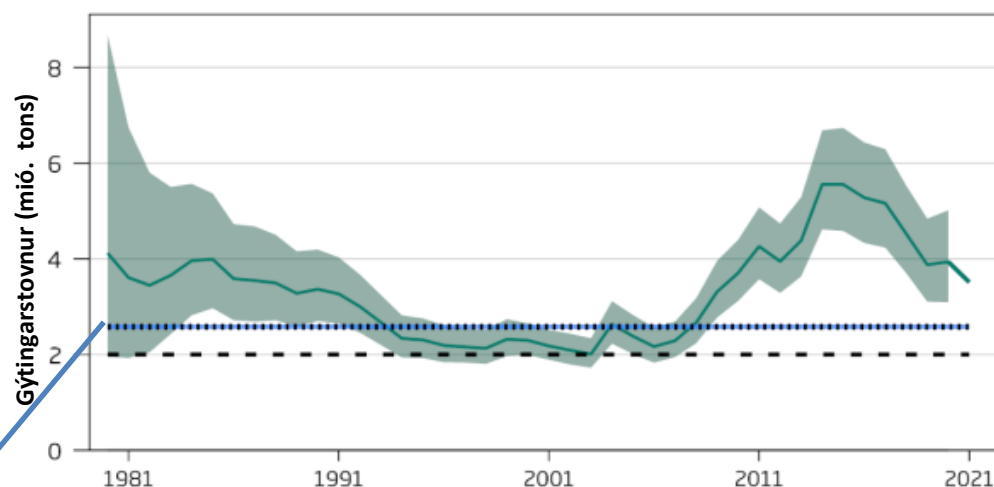


Makrelegg verða brúkt til at kanna makrelstovnin

Stovnsmeting
Gýtingarmynstur

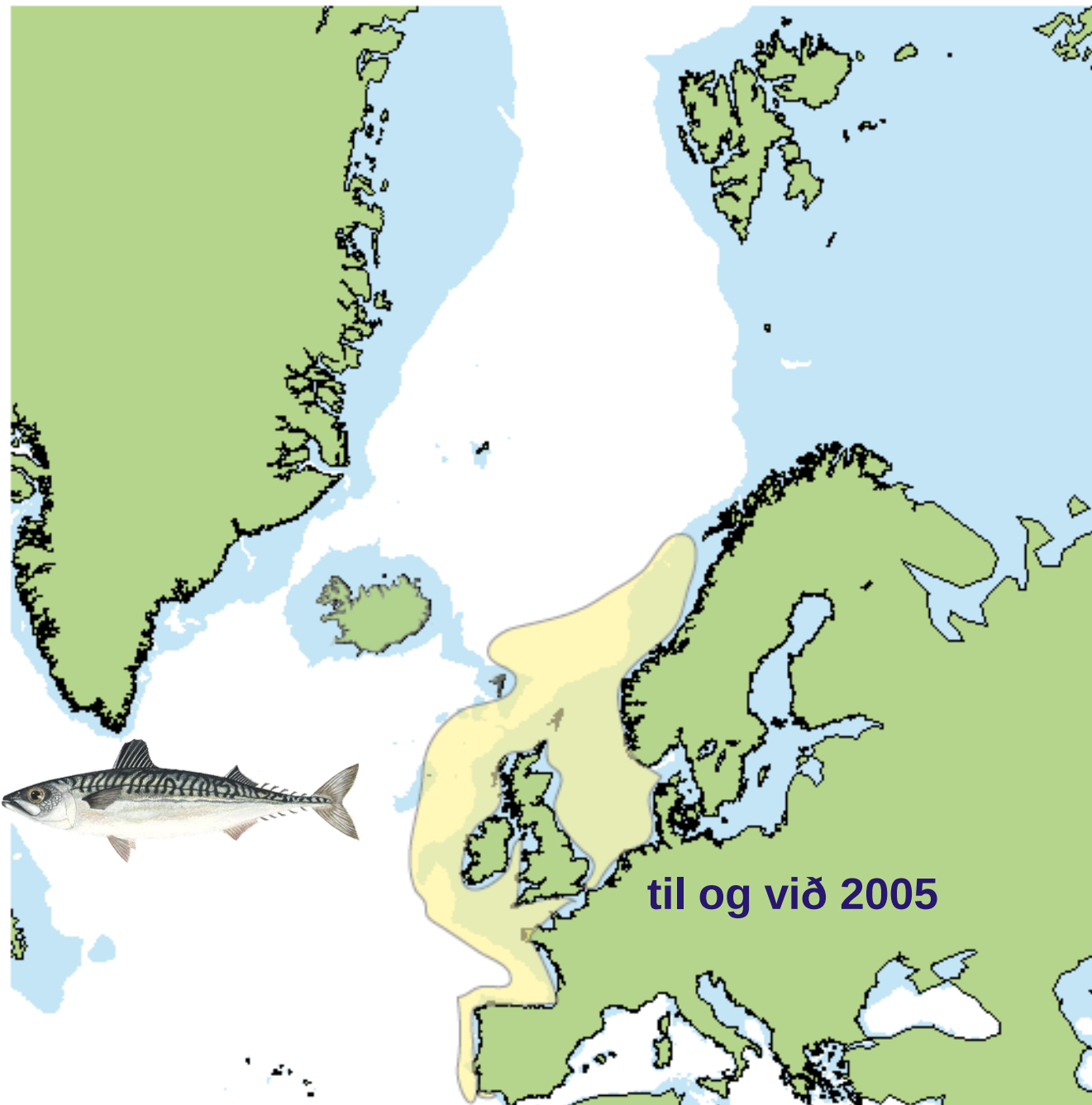
Lámark fyri nær
stovnurin er
burðardyggur

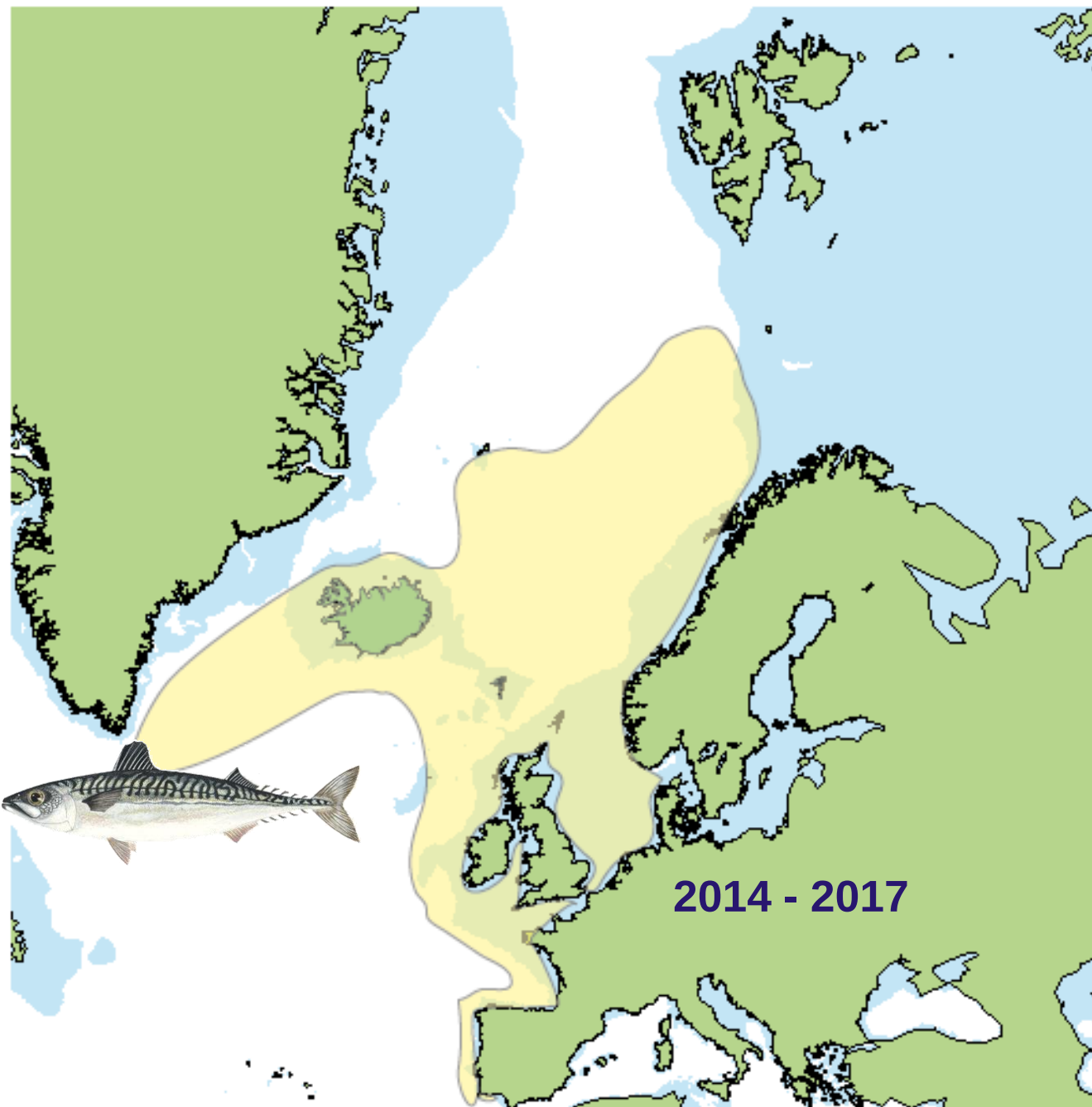
Støddin á makrel gýtingarstovni



Innihald

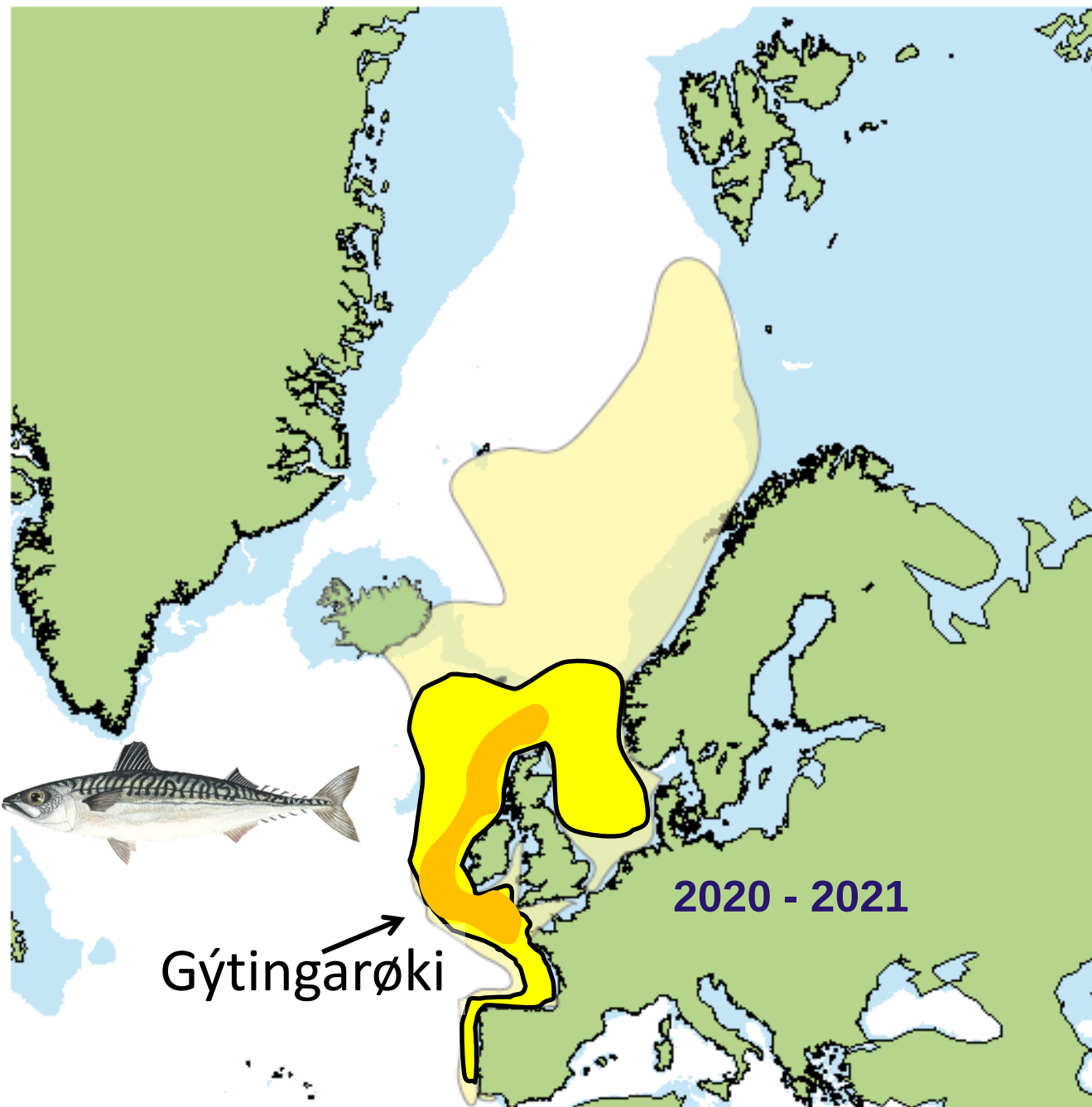
- Makrelur
 - Útbreiðsla
- Makrelkanningar
 - Eggtefjingar
 - Tíðarseria
- Broytingar í gýting seinastu árin





**Livir í stórum øki
(~4 mió. km²)**

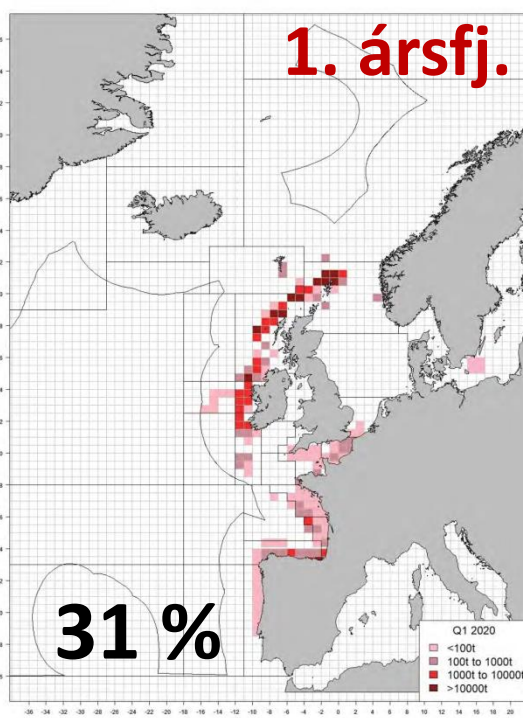
**Gýtir frá
februar til juli**



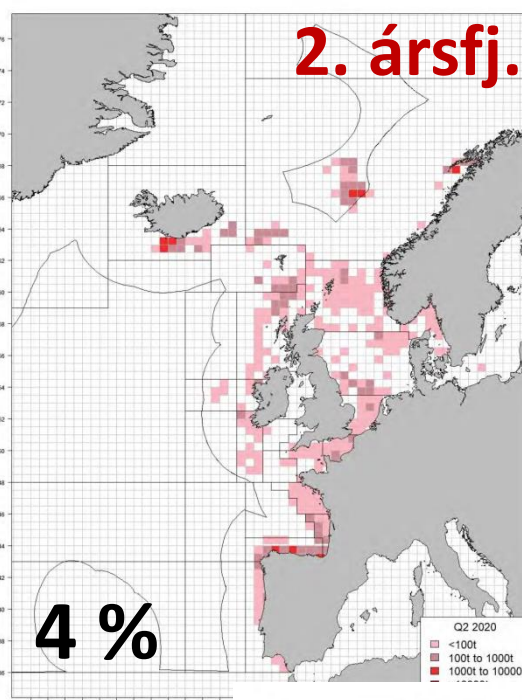
Veiða
2020

Tilsaman
1.025 túsund tons

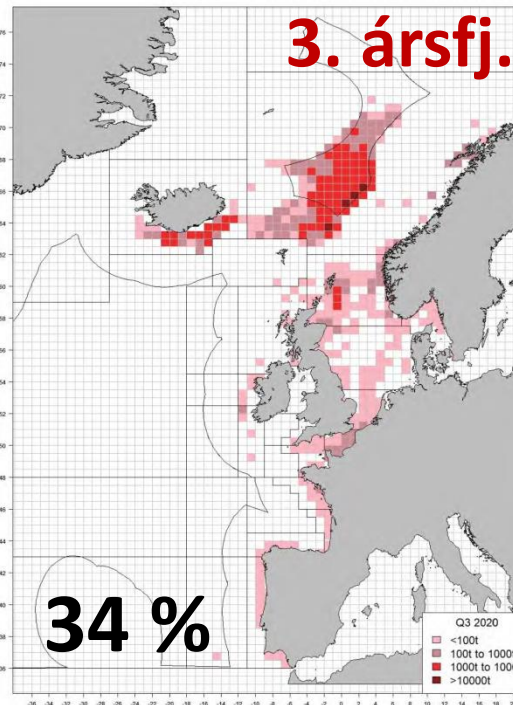
1. ársfj.



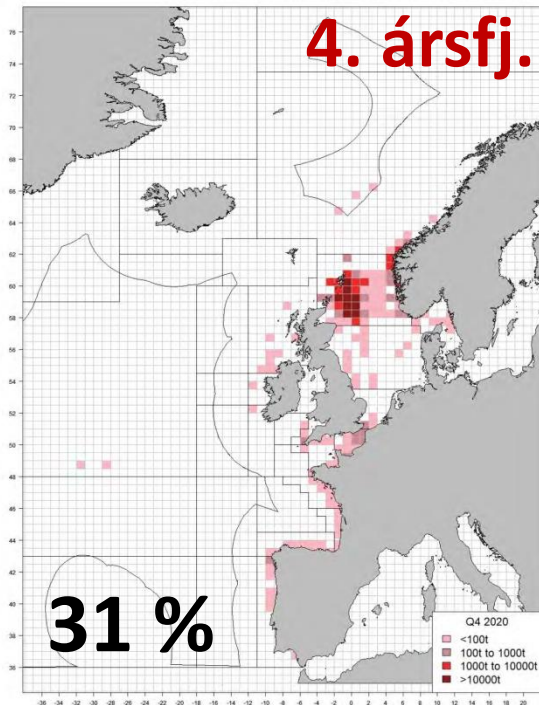
2. ársfj.



3. ársfj.



4. ársfj.

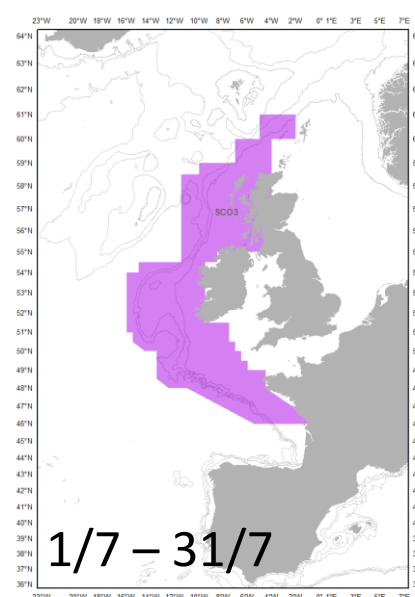
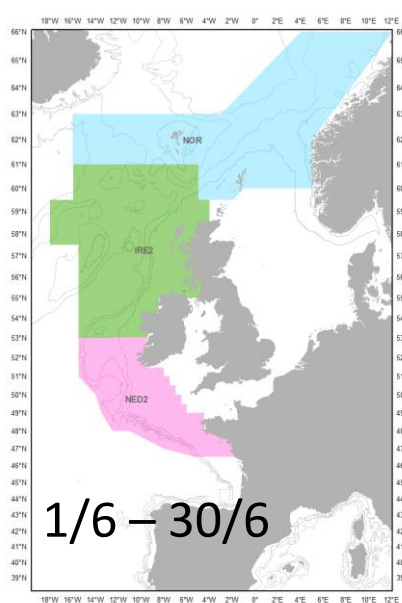
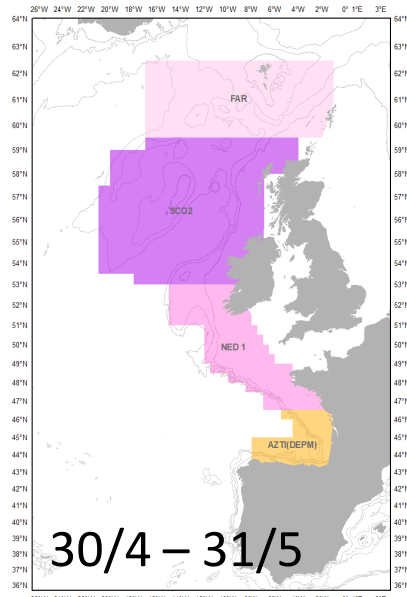
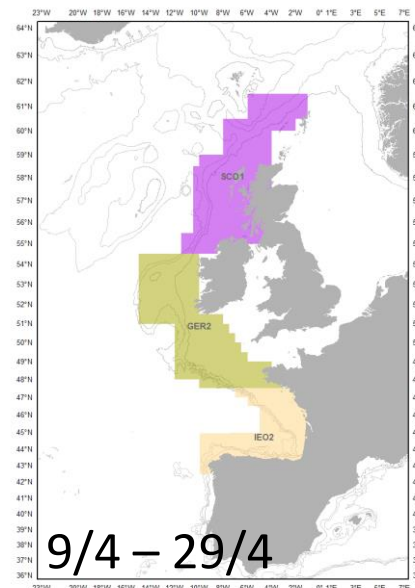
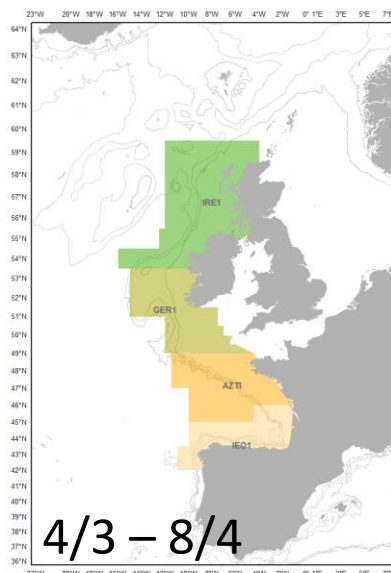
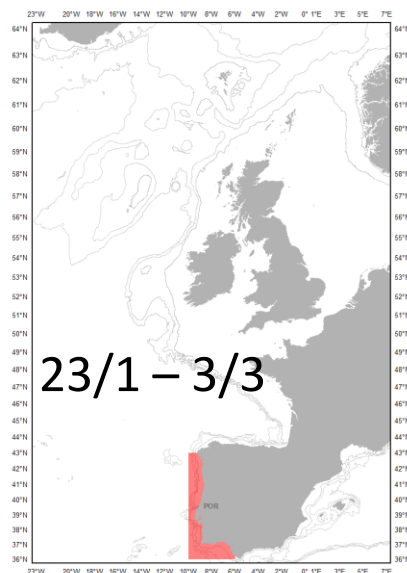


Veiddur av 17
londum í 2020

Kunnleiki um makrelstovnin

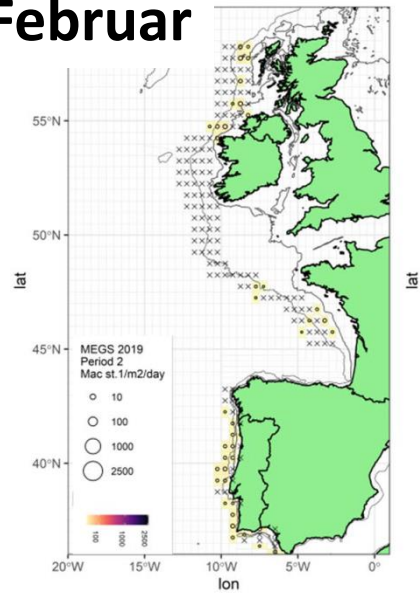
- Veiða
 - Kanningar – gjørdar í felag av nógvum londum
 1. Trolkanningar í Norskahavinum um summarið
 - Føroyar luttaka (5 lond)
 2. Trolkanningar sunnanfyri um veturin
 3. Merkiroyndir
 4. Eggtejingar triðja hvørt ár
 - Føroyar luttaka (9 lond)
 - Livir í stórum øki
 - Gýtir februar-juli – eisini í stórum øki
 - Sæst illa á ekkoloddi
- > Avbjóðandi at kanna

Eggteijing 2022

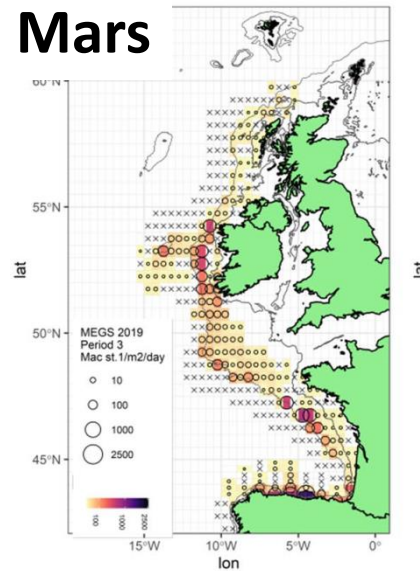


Úrslit 2019

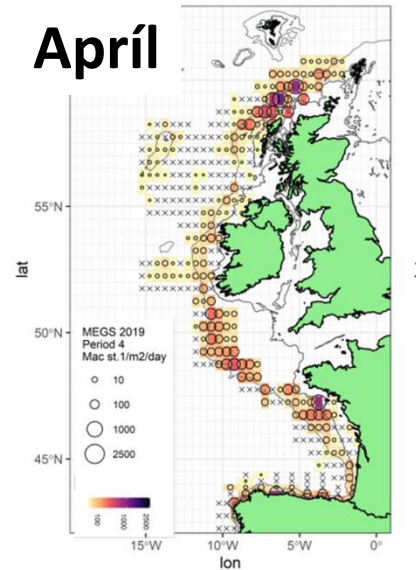
Februar



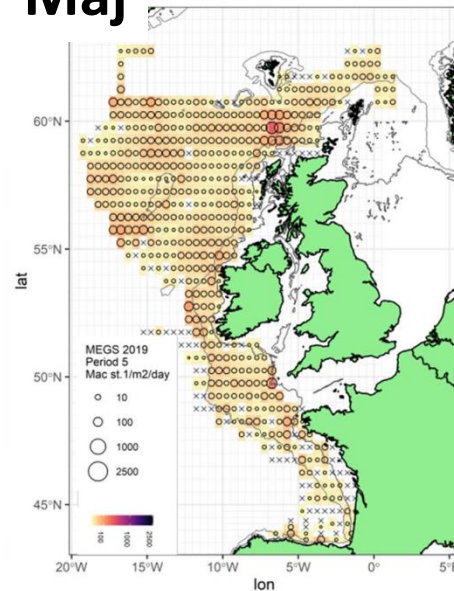
Mars



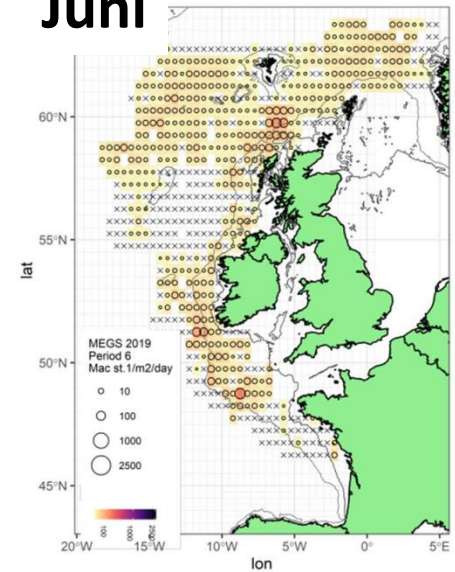
Apríl



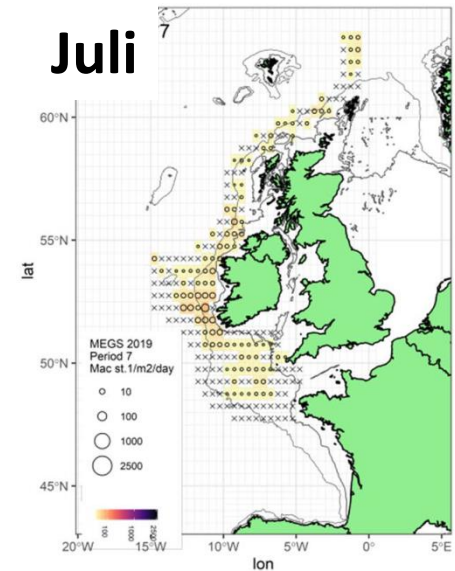
Maj



Juni

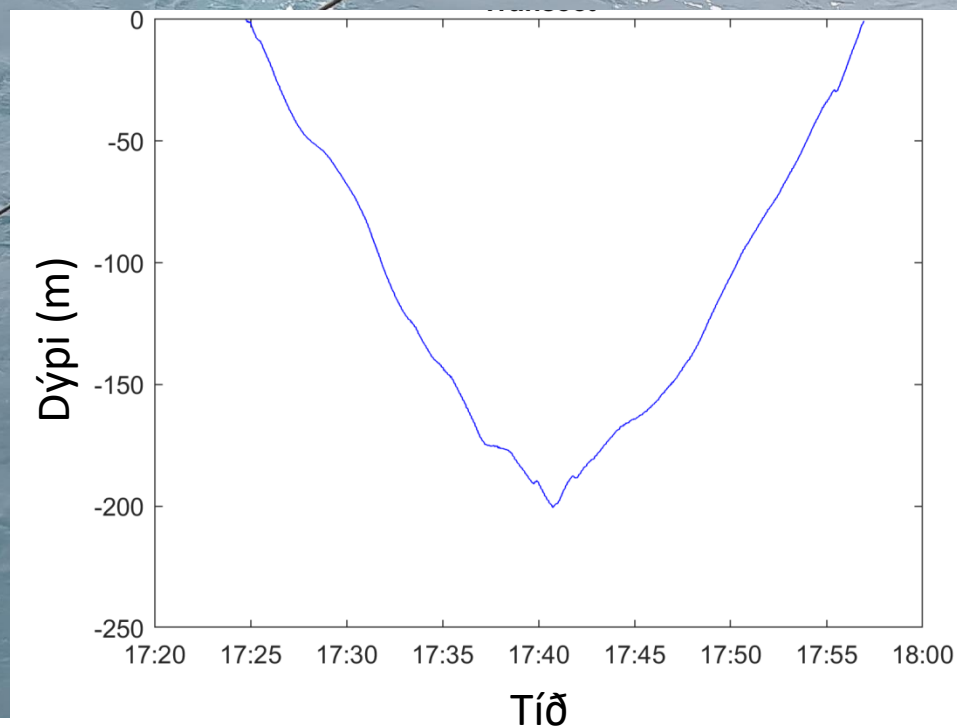


Juli



Eggtejing umborð á Jákup Sverra

Glúpur nevndur “Gulfur” Tóvaður meðan siglt verður





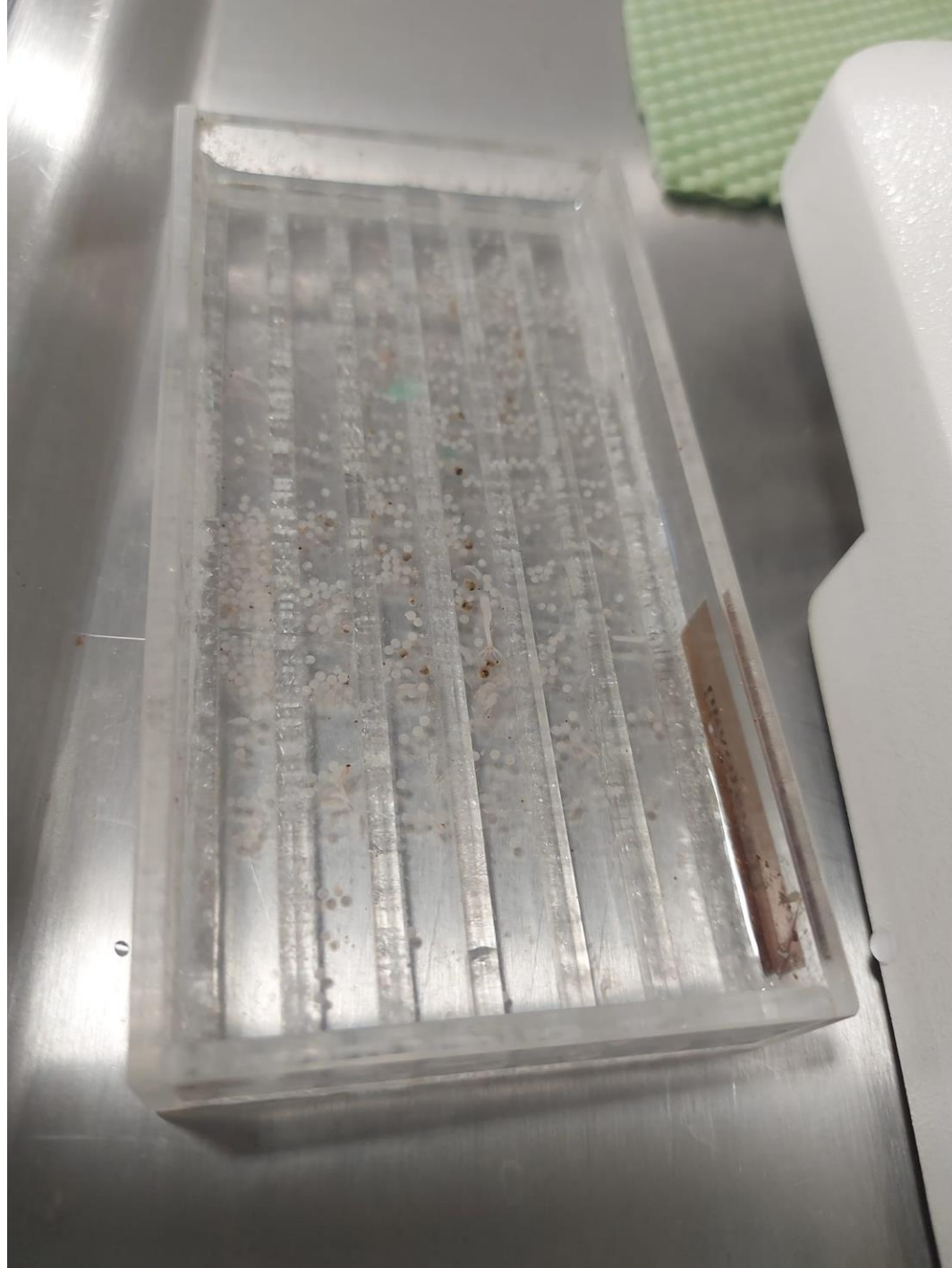










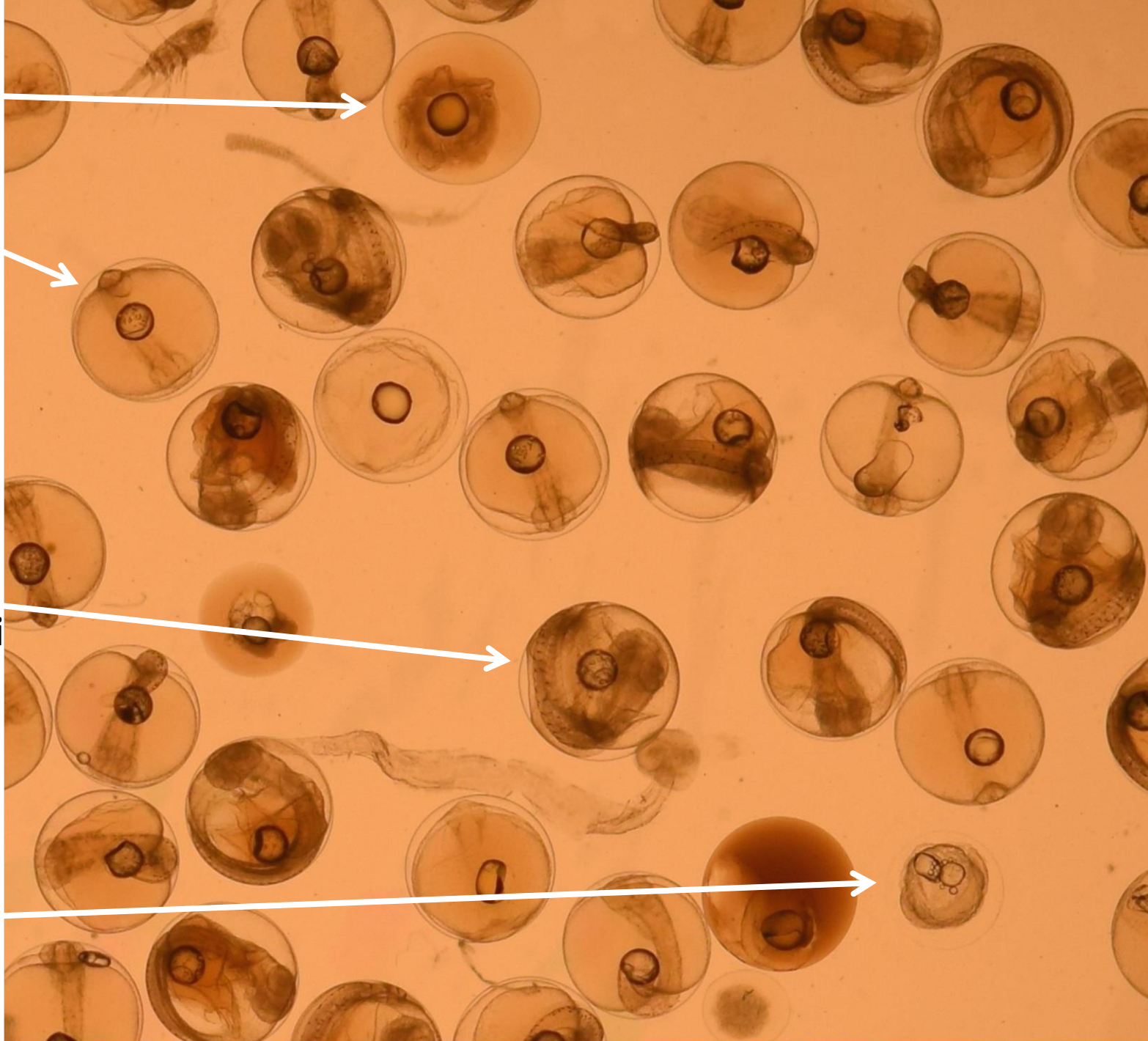


**Dag gamalt
makrelegg**

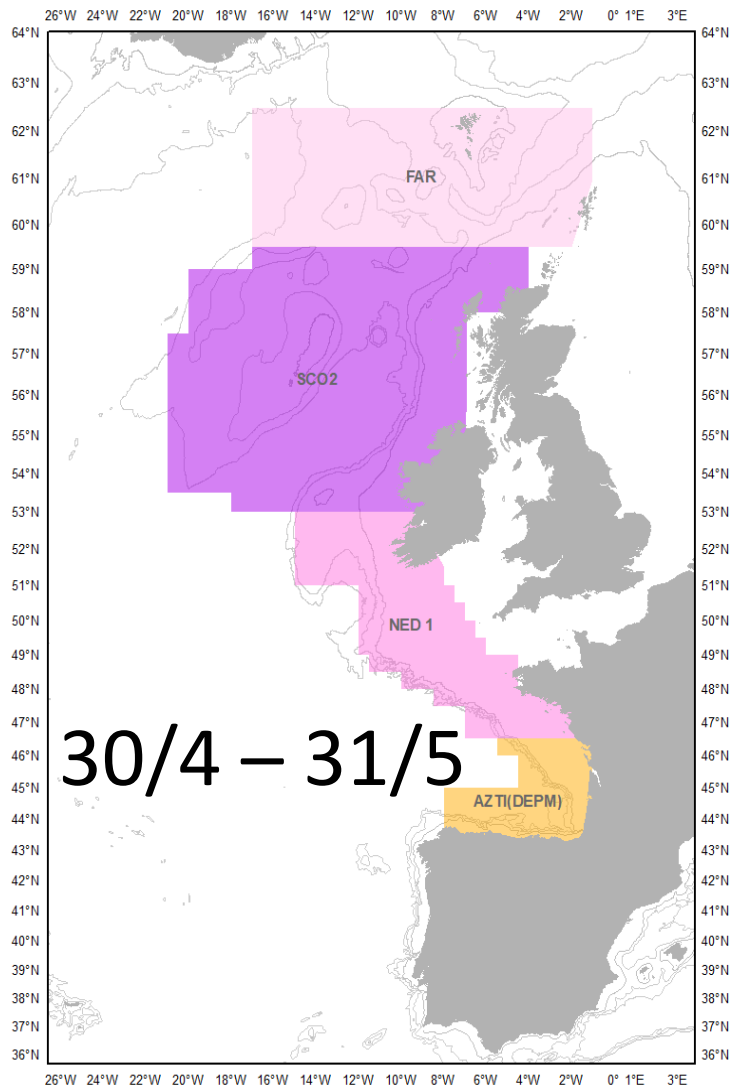
**Makrelegg
eldri enn
ein dag.
Larvan sæst
so smátt**

**Makrelegg
nærum
klekingarbúgv**

**Egg frá øðrum
fiskaslagi enn
makreli**

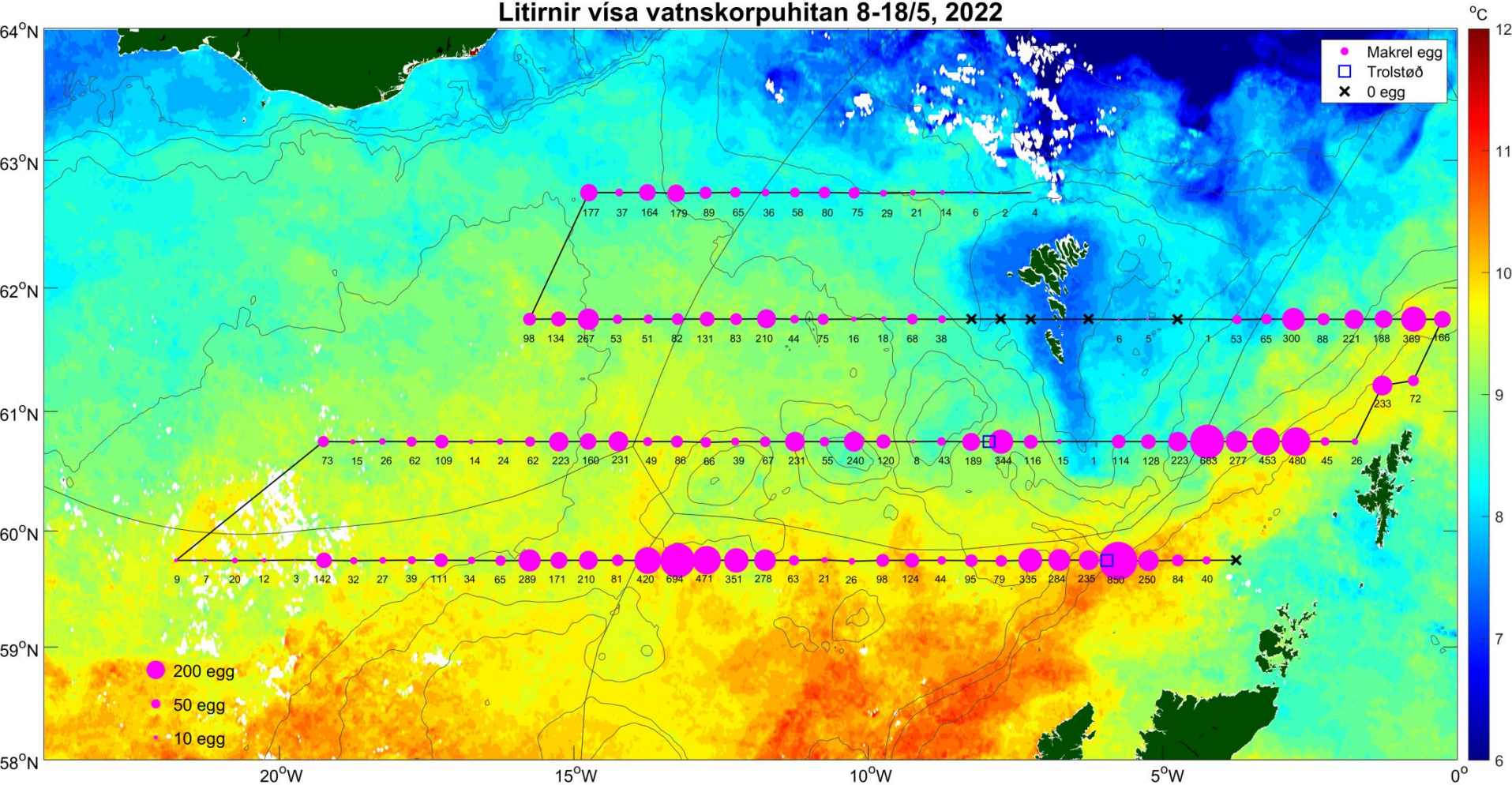


Eggteijing 2022



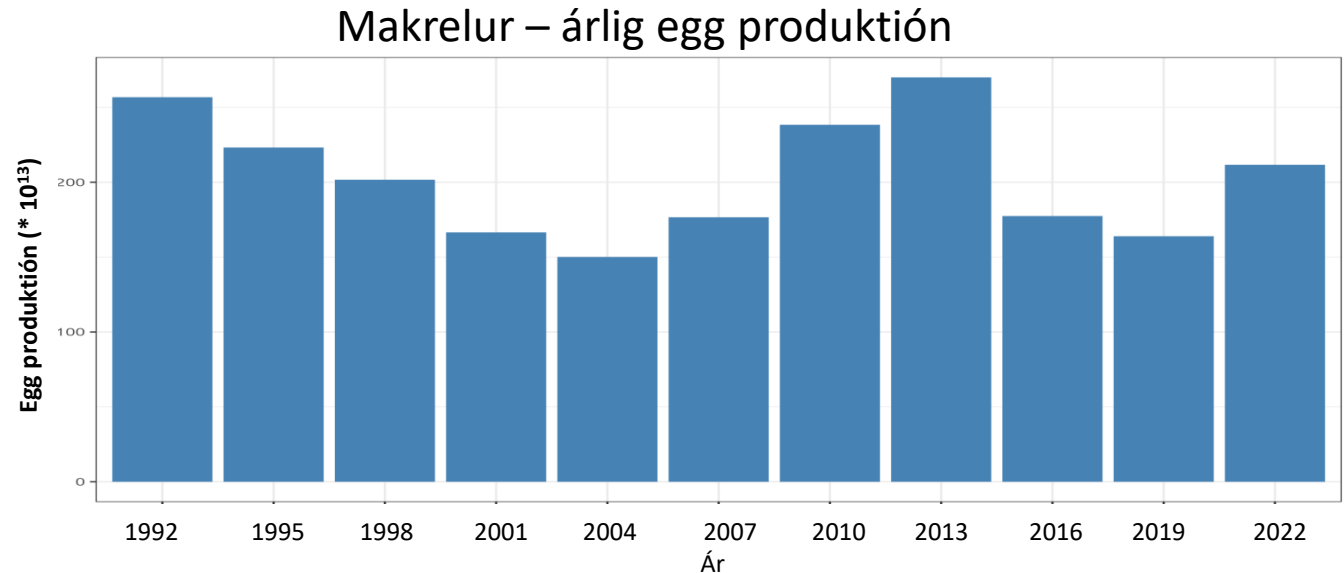
Jákup Sverri í maj 2022

Makrelegg í gulfinum (20-31/5-2022), víst sum tal undir hvørji støð
Tilsaman 15362 makrelegg eru tald, harav 6652 vóru daggomul
Litirnir vísa vatnskorpuhitan 8-18/5, 2022



Mannagongd

- Eggteljing: dag gomul makrelegg pr. m³



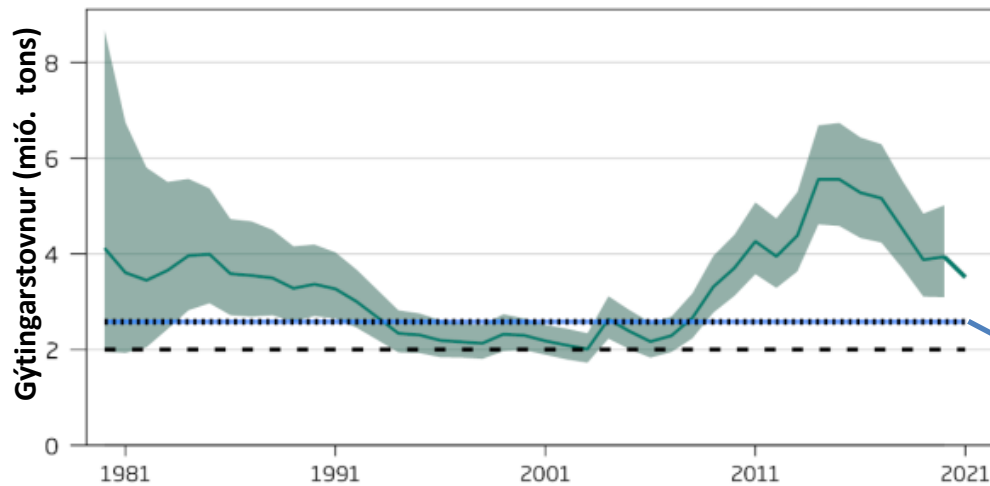
- Trolkanning: Egg pr. hon

Tal av eggum er proportionalt við tal av honum t.v.s.
man kann rokna út hvussu nógvir fiskar eru

Til makrelstovnsmeting

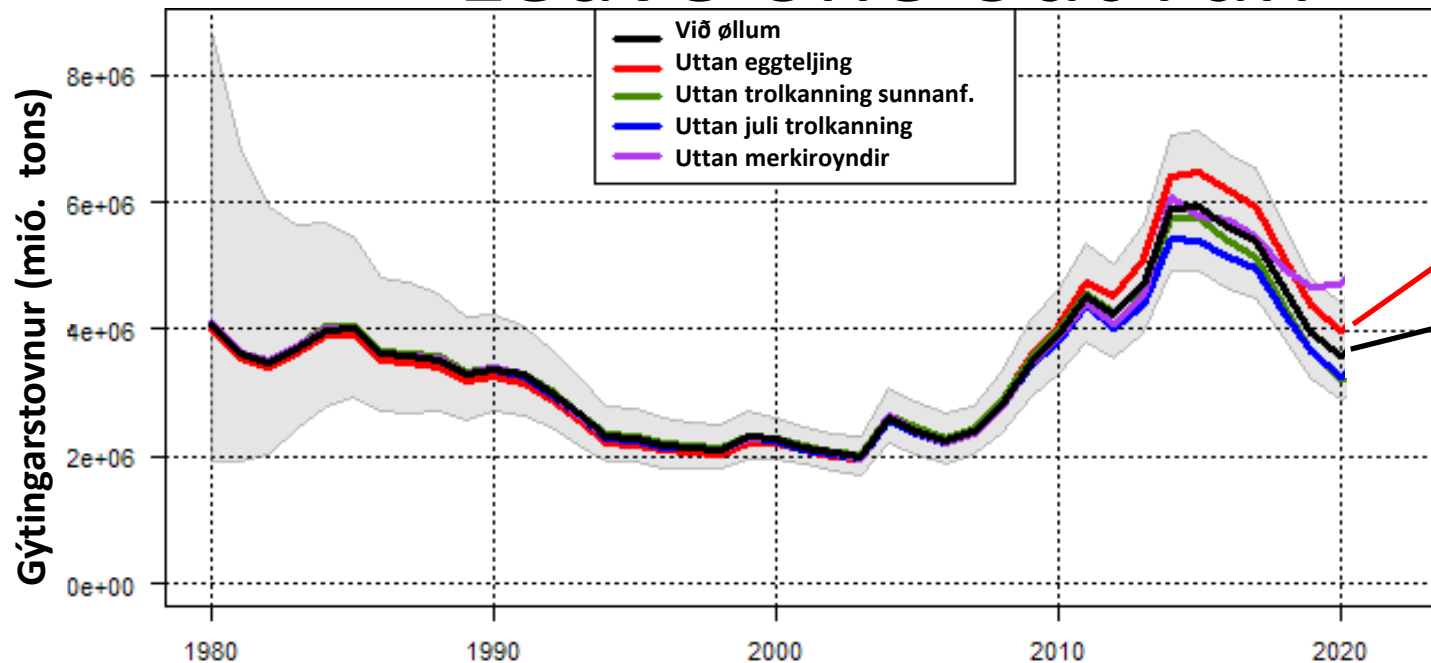
- Veiða
- Kanningar
 - Trolkanningar í Norskahavinum um summarið
 - Trolkanningar sunnanfyri um veturin
 - Merkiroyndir
 - Eggtejingar triðja hvørt ár

Støddin á makrel gýtingarstovni



Lámark fyri nær stovnurin er burðardyggur

“Leave one out run”



Uttan Eggteijingar

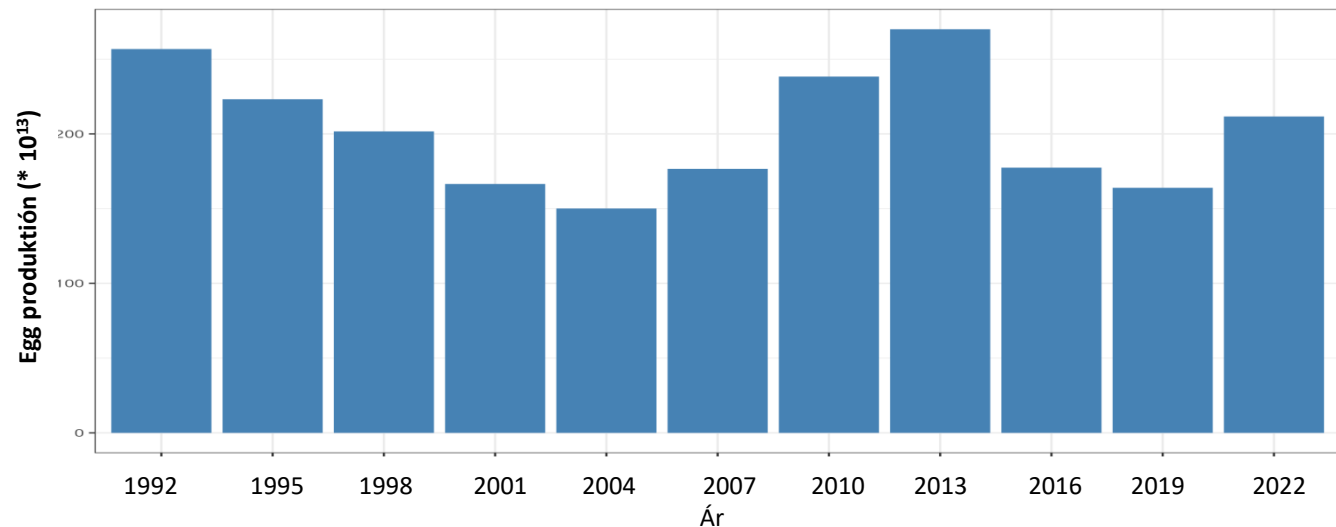
Við øllum

Broytingar í gýting

- Kanningar gjørdar síðani 1970-ini.

Systematiskt síðani 1990-ini

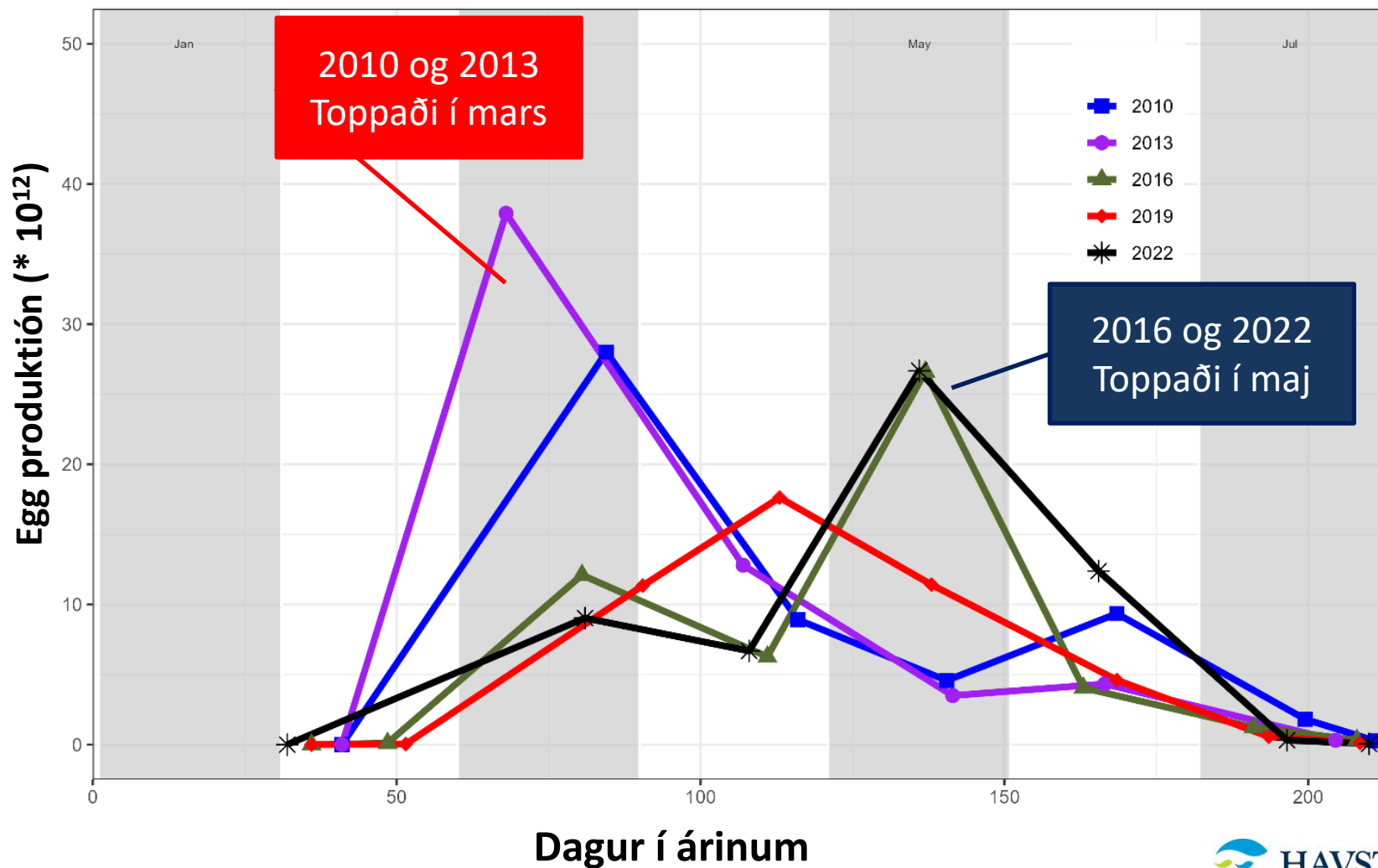
Makrelur – árlig egg produkti3n (mált 3.hvørt ár)



- Síðani mitt í 2010-unum hevur gýtingin breitt seg longur norður og “toppar” seinni á árinum

Gýtingin “toppar” seinni

Daglig egg produkti

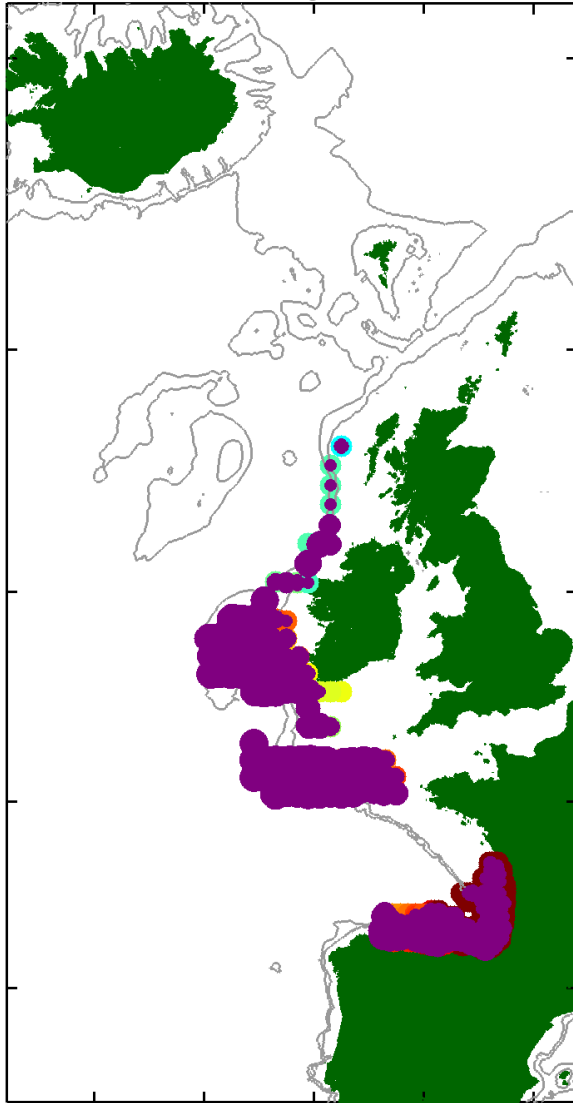


Gýtingin hevur flutt seg norðeftir

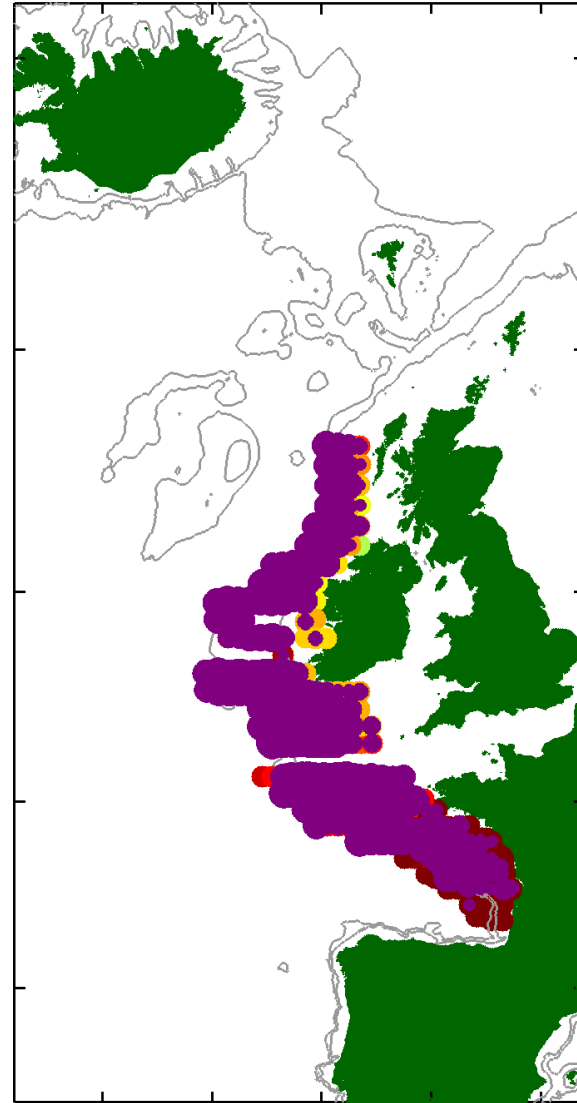
- Torførari at dokumentera, men sæst við at hyggja á kort....

1992

May

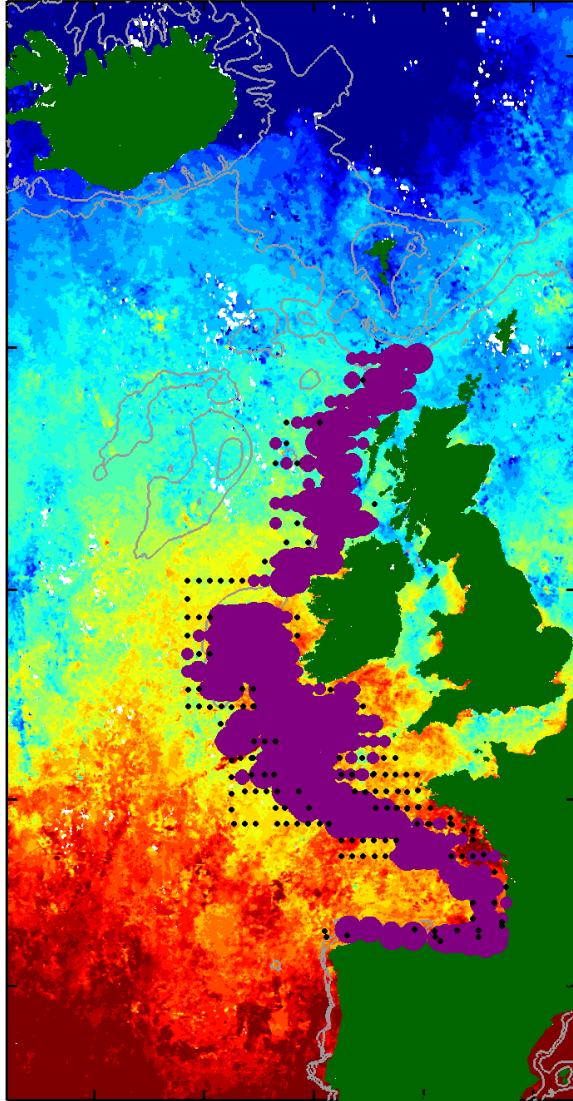


June

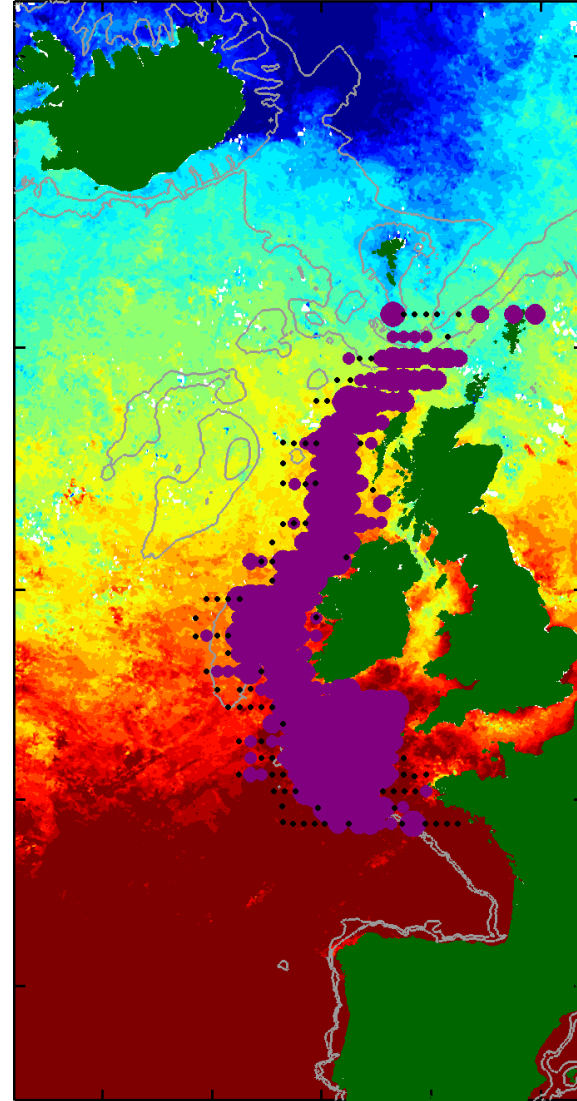


2004

May

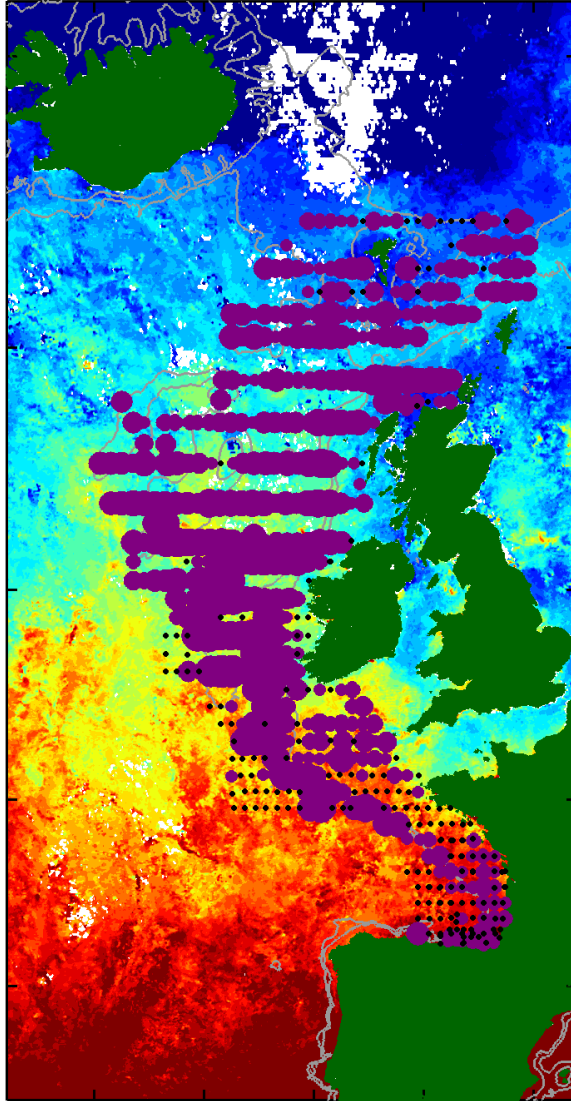


June

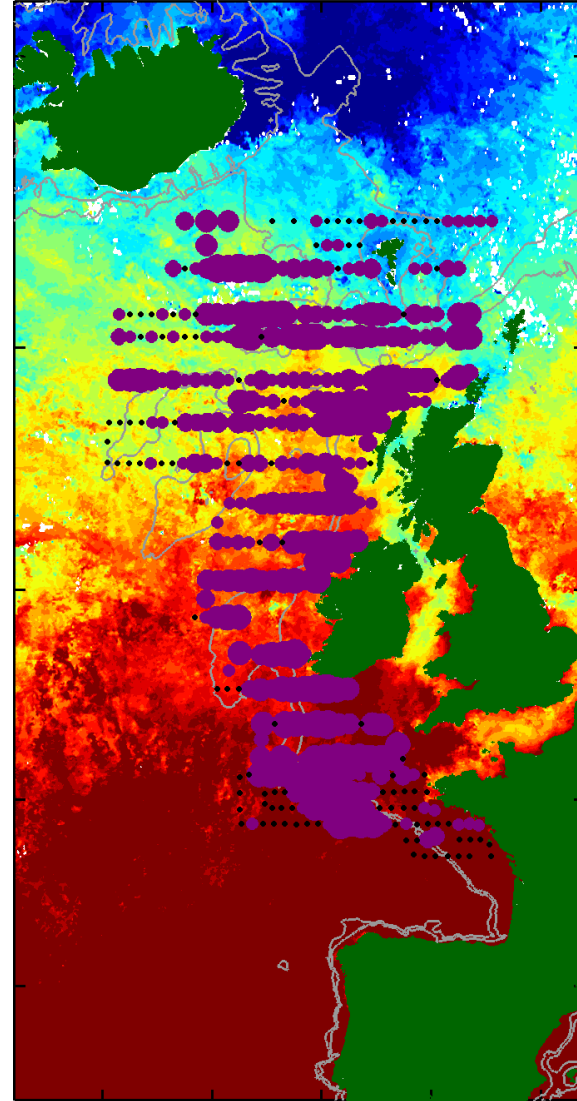


2010

May

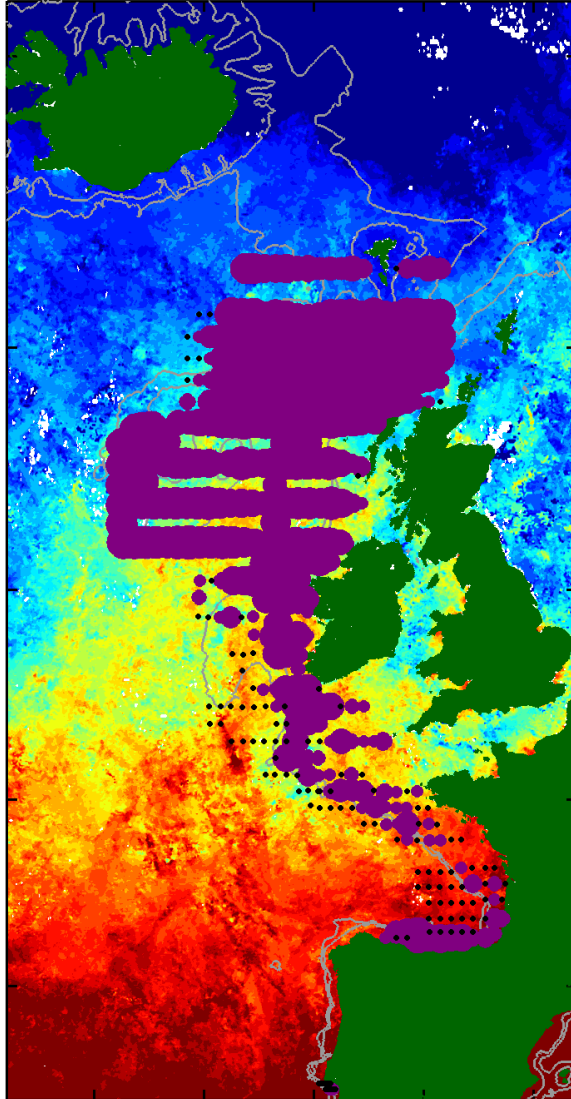


June

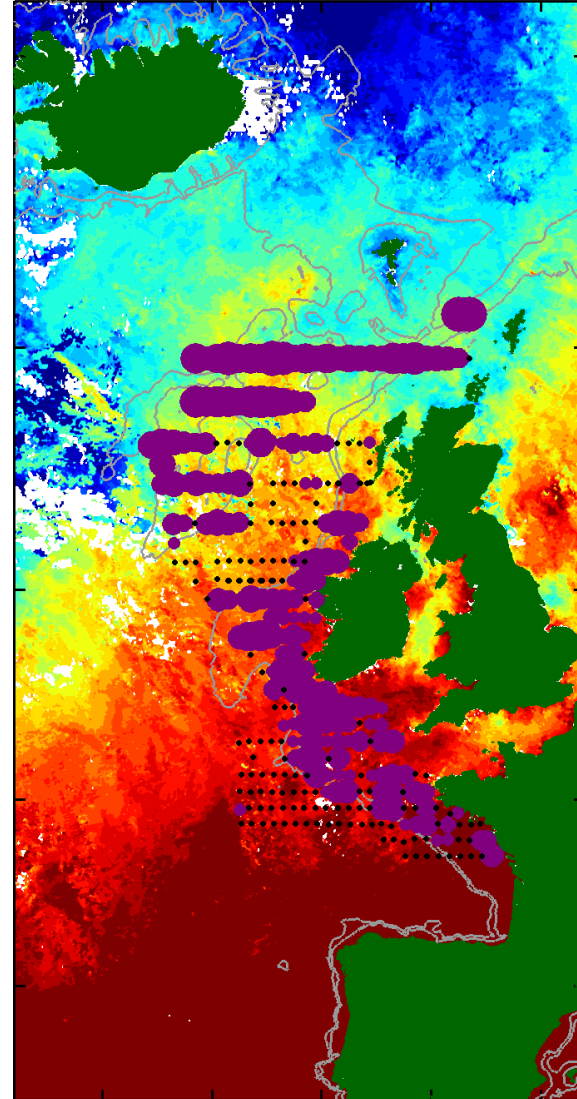


2016

May



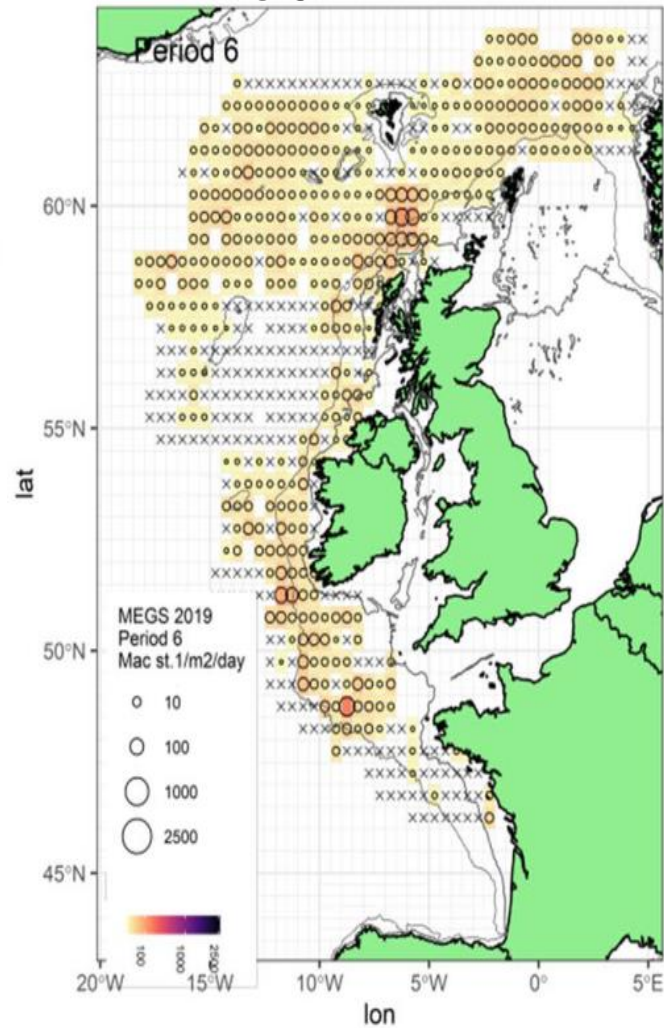
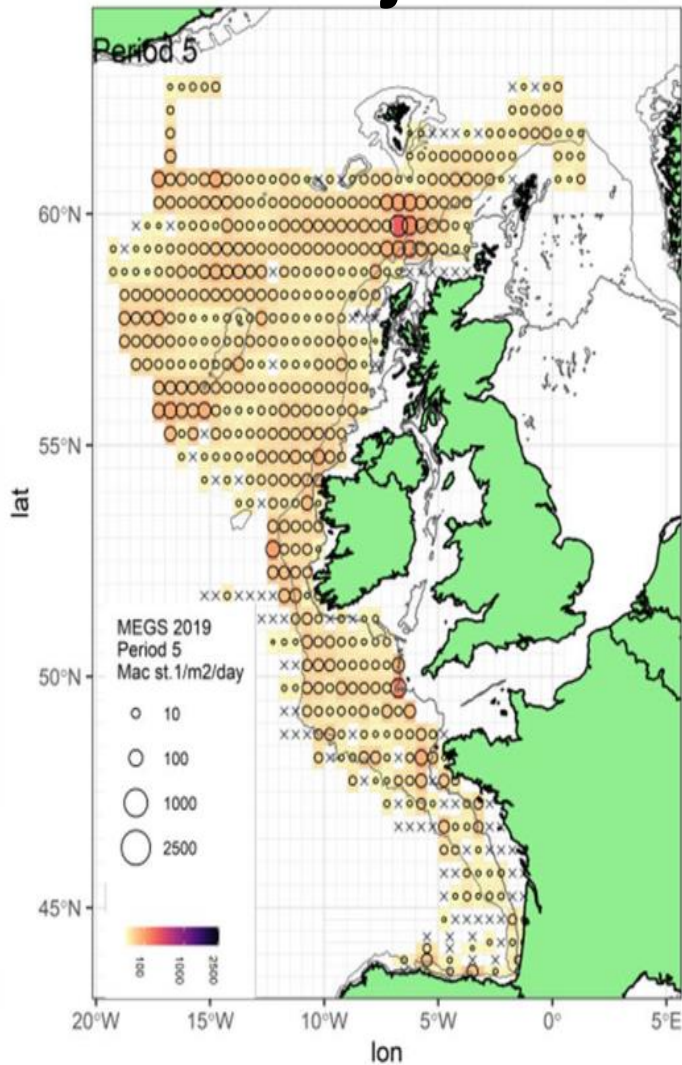
June



2019

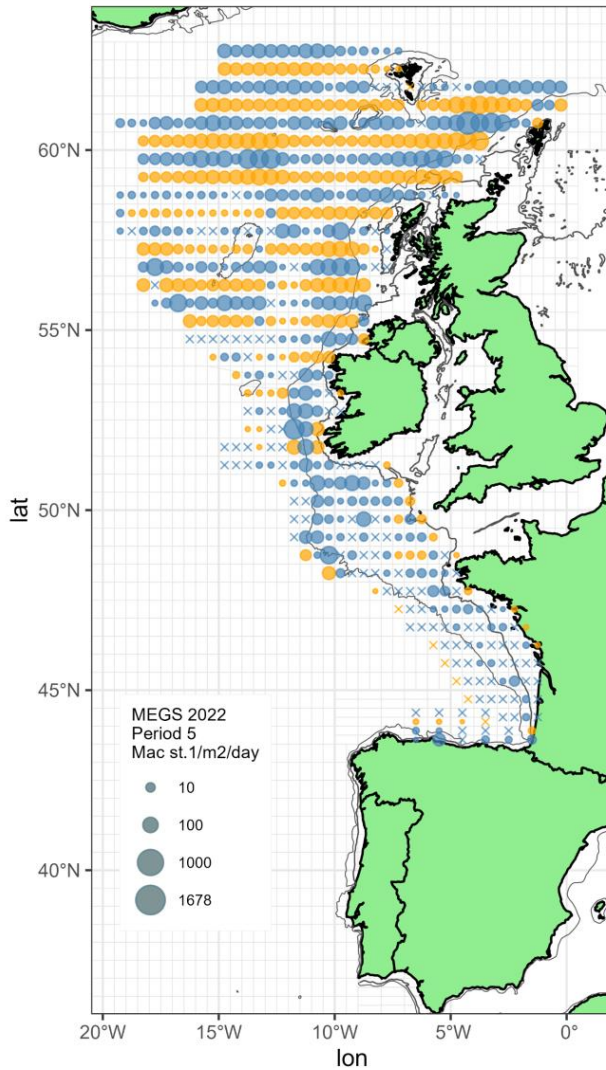
Maj

Juni

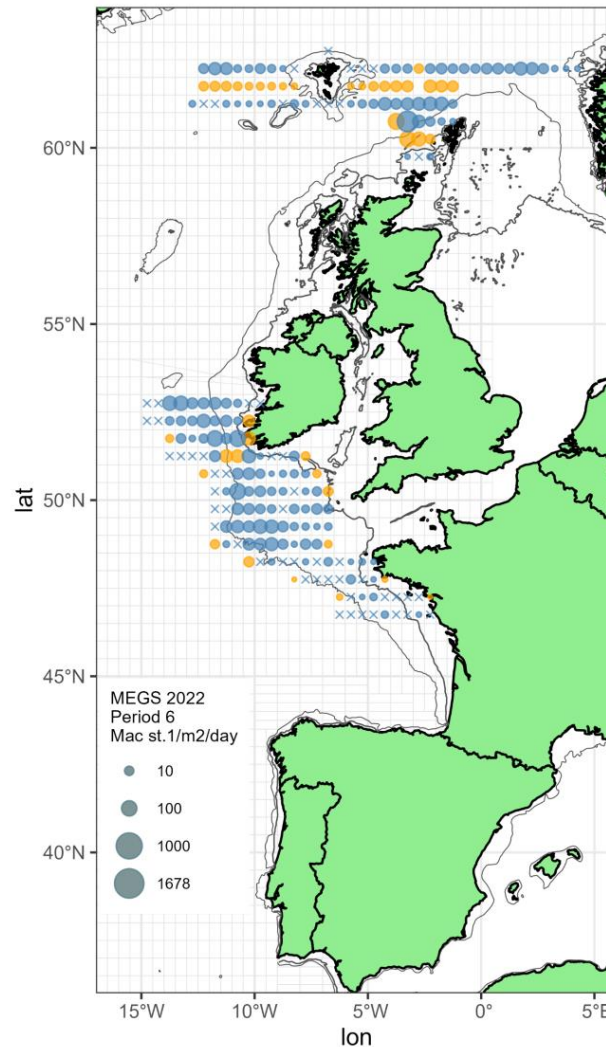


2022

Maj



Juni



Blátt er mátað
Gult er útroknað

Samanumtøka

- Makrelegg verða brúkt til at kanna makrelstovnin
 - Geva innlit í gýtingarøkir
 - Innganga í stovnsmeting av makreli
- Makreleggteljingar síðstu 30 árini vísa
 - At gýtingin seinastu árini “toppar” seinni enn hon gjørði í 90-unum og 0-unum
 - At gýtingin hevur flutt seg norðeftir

The background of the slide is a collage of numerous petri dishes, each containing a fish embryo at various stages of development. The embryos are translucent with visible internal structures like the yolk sac and developing organs. The overall color palette is a warm, orange-brown.

Takk fyri

Spurningar?



HAVSTOVAN
FAROE MARINE RESEARCH INSTITUTE