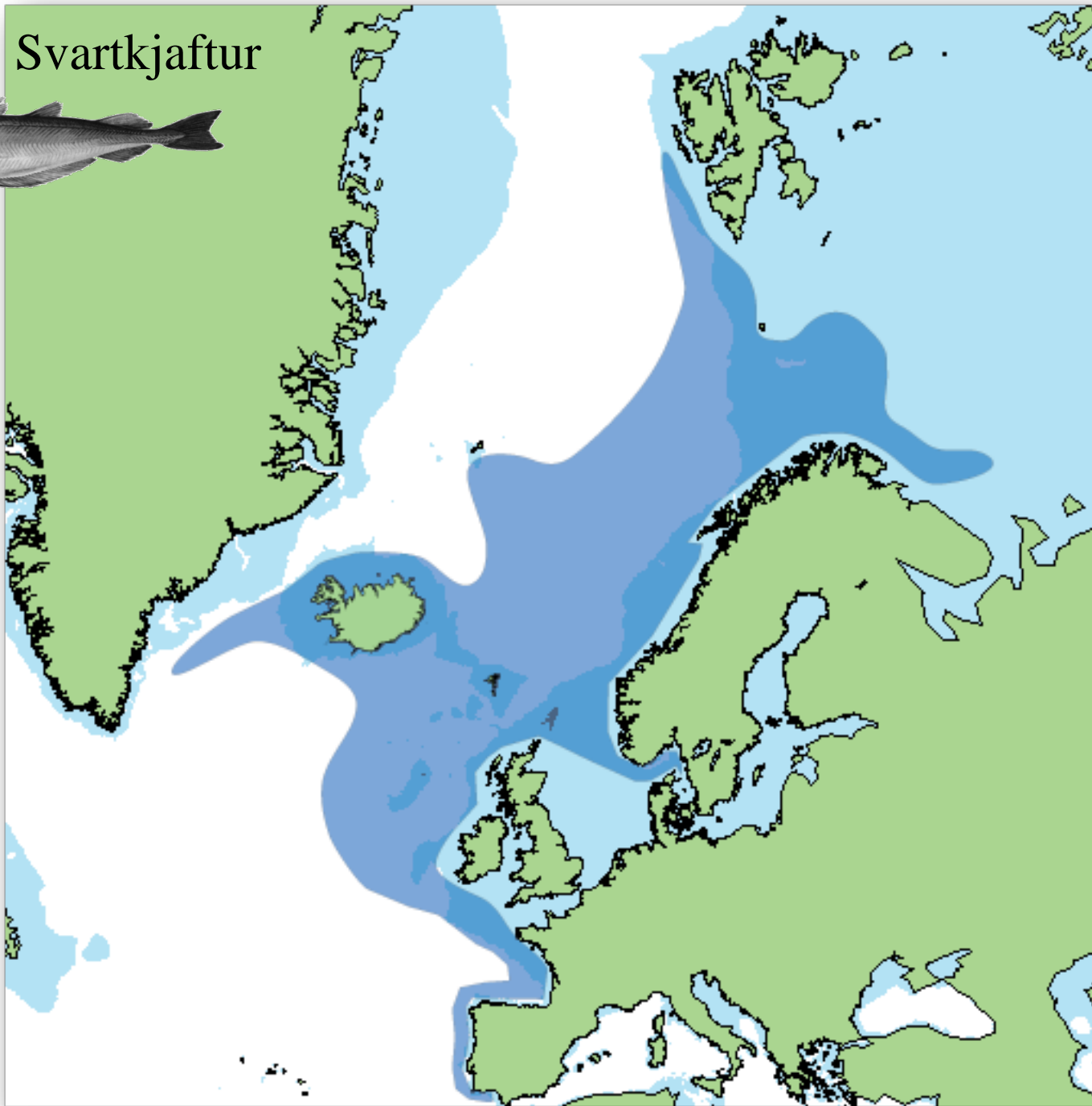


# Støðan í stovnunum hjá svartkjáfti, sild og makreli

Jan Arge Jacobsen



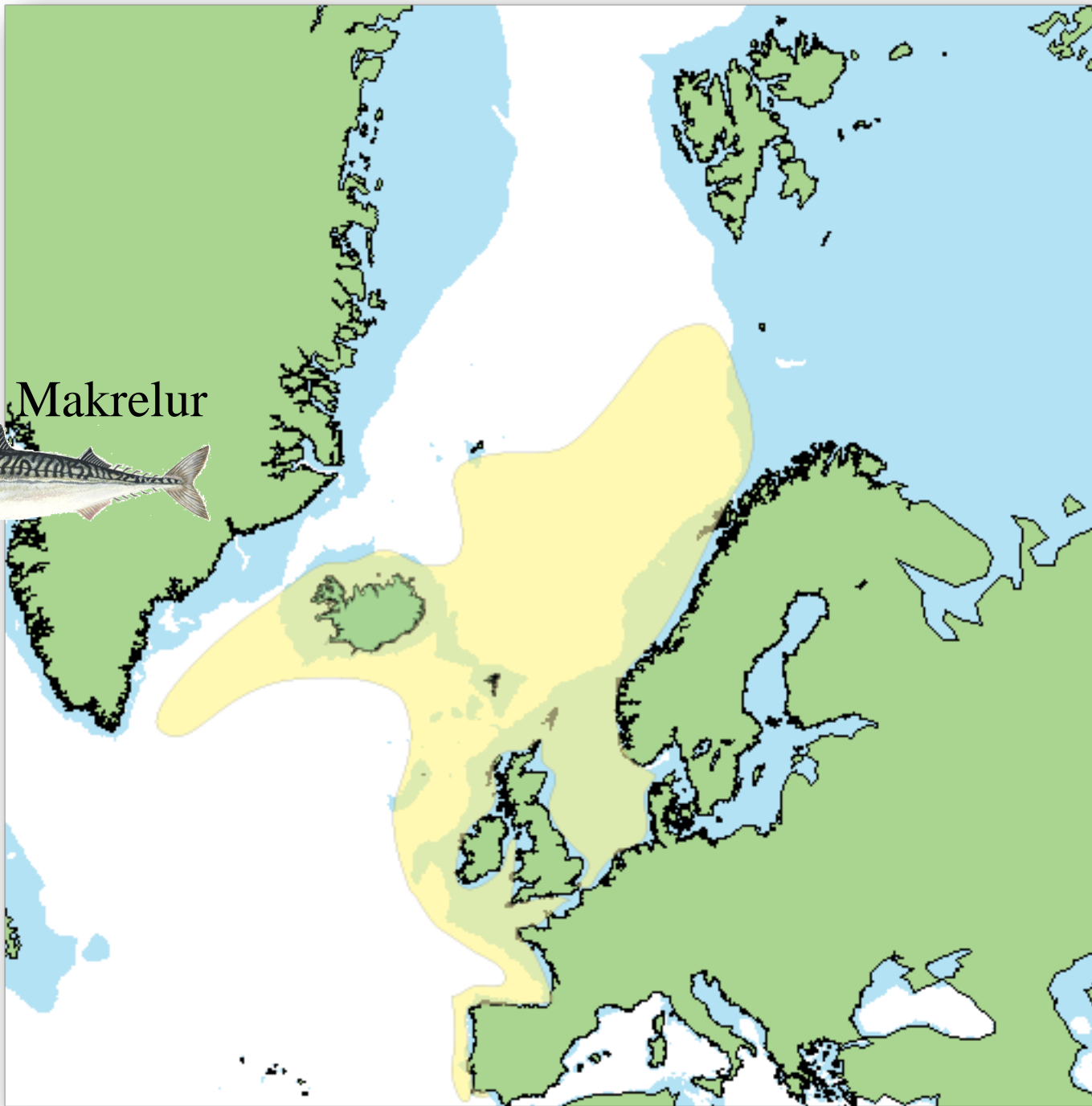
# Svartkjaftur



Sild



Makrelur



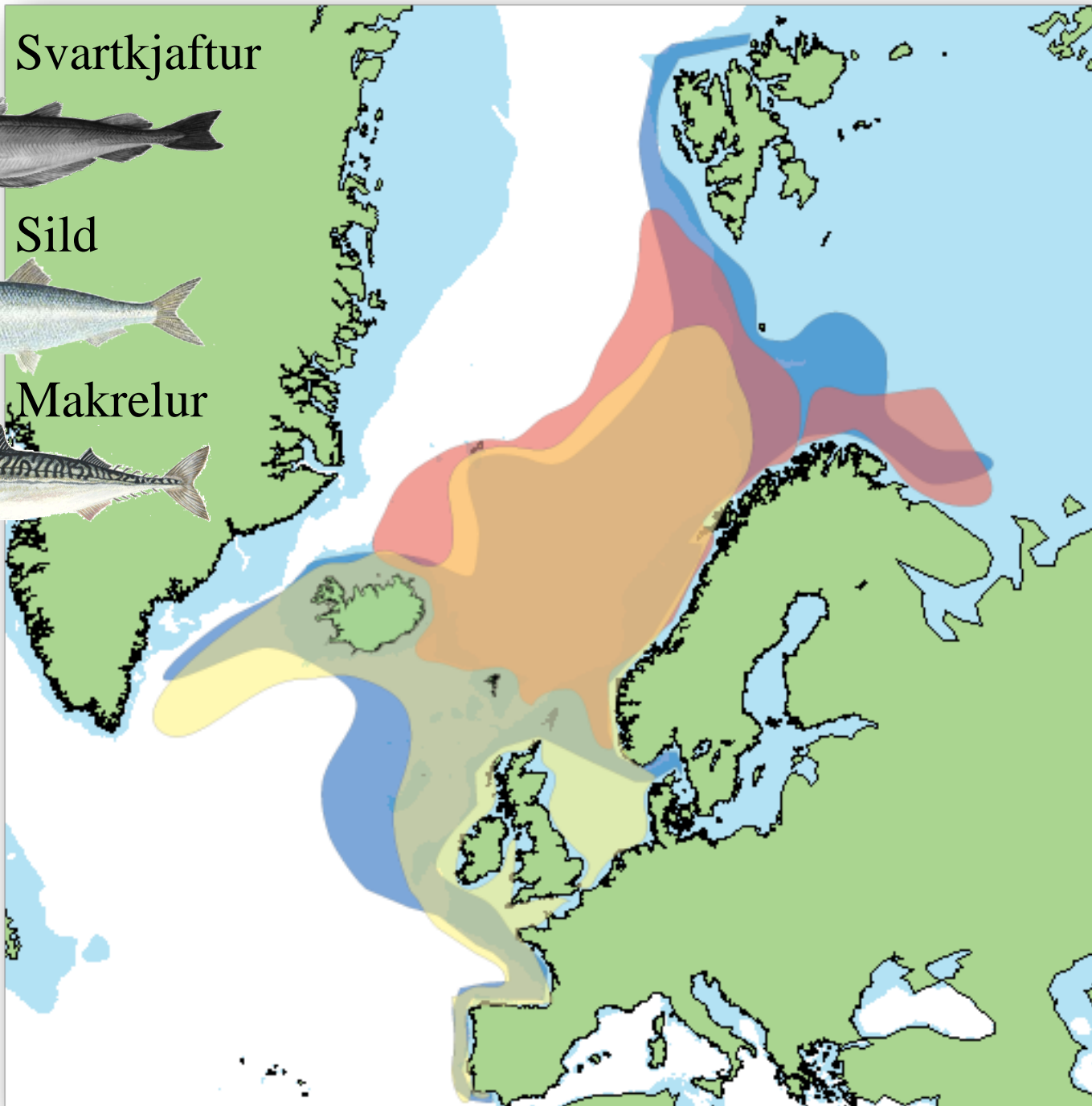
Svartkjaftur



Sild

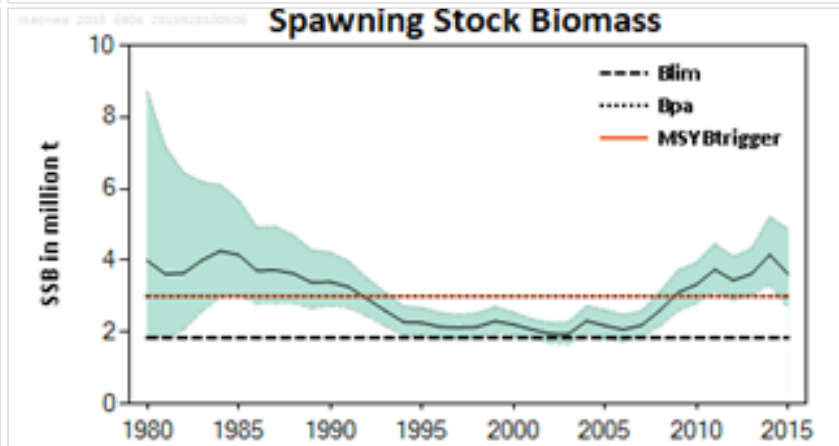
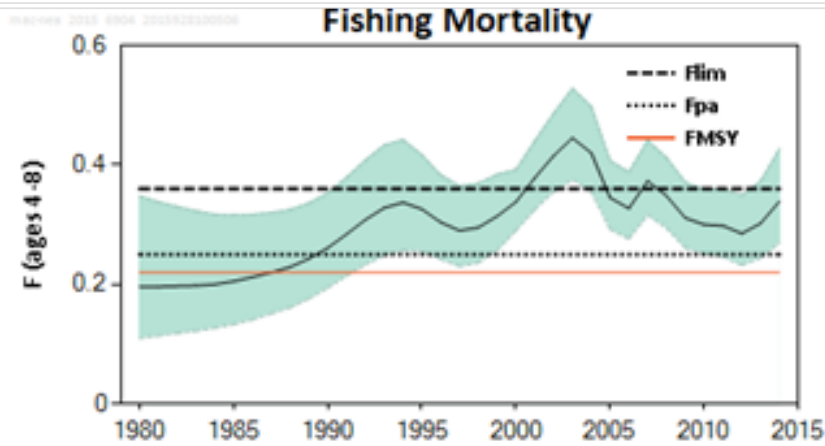
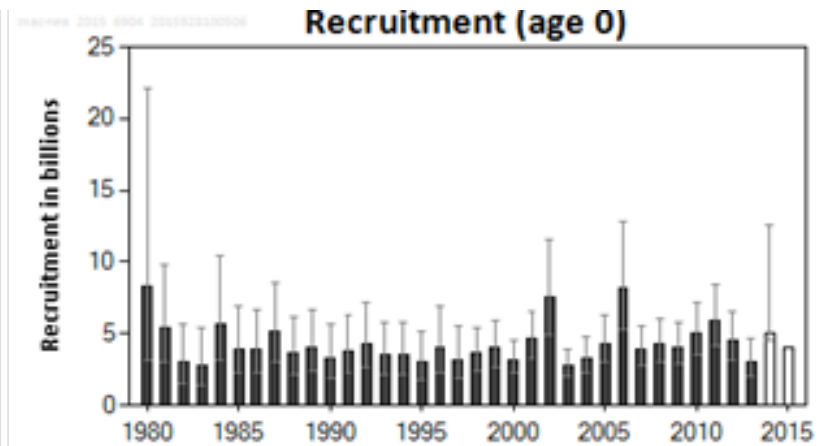
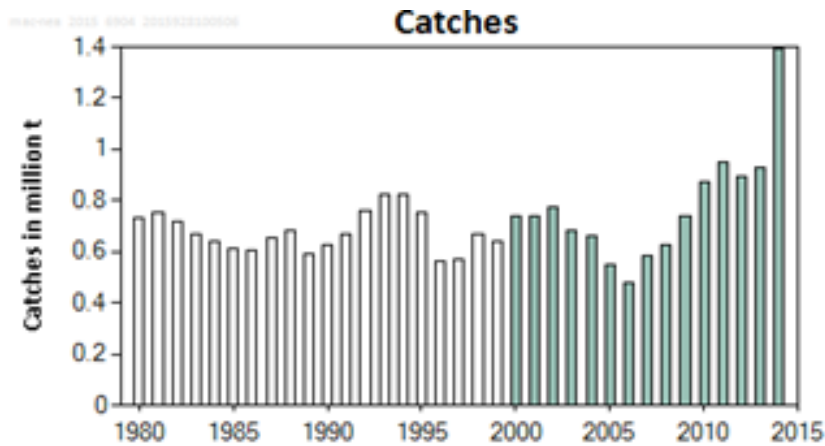


Makrelur


















Makrelur

# Makrelur: stöðan í dag



# Makrelur: ICES tilráðing fyri 2016

ICES advises that when the MSY approach is applied, catches in 2016 should be no more than **667 385 t**.

		Fishing pressure				Stock size			
		2013	2014	2015		2013	2014	2015	
Maximum sustainable yield	$F_{MSY}$				Above				Above trigger
Precautionary approach	$F_{pa}$ $F_{lim}$				Increased risk				Full reproductive capacity
Management plan	$F_{MGT}$	-	-	-	Not applicable				Not applicable

Tilráðing fyri 2015: 906 000 t, 26.3% minking í 2016



# Makrelur: veiða og útlit

Basis:  $F(2015) = 0.37$ ; Catches (2015) = 1,235 mill t;  $SSB(2015) = 3.62$  mill t

Rationale	Catch (2016)	F (2016 & 2017)	Basis	SSB (2016) Spawning time	SSB (2017) Spawning time	SSB change*	Catch change* *
MSY framework	667385	0.22	$F_{MSY}$	3131490	3038633	-3%	-46%
Precautionary approach	748576	0.25	$F_{pa}$	3116371	2963423	-5%	-39%
Zero catch	0	0	$F = 0$	3245272	3676929	13%	-100%
Other options	469238	0.15		3167133	3224473	2%	-62%
	527128	0.17		3156896	3169848	0%	-57%
	612036	0.20		3141621	3090221	-2%	-51%
	639834	0.21		3136550	3064280	-2%	-48%
	694691	0.23		3126440	3013277	-4%	-44%
	721754	0.24		3121400	2988209	-4%	-42%
	775160	0.26		3111353	2938918	-6%	-37%
	827624	0.28		3101346	2890735	-7%	-33%
	1235608	0.45	catch 2016 = 2015	3018461	2325691	-23%	0%

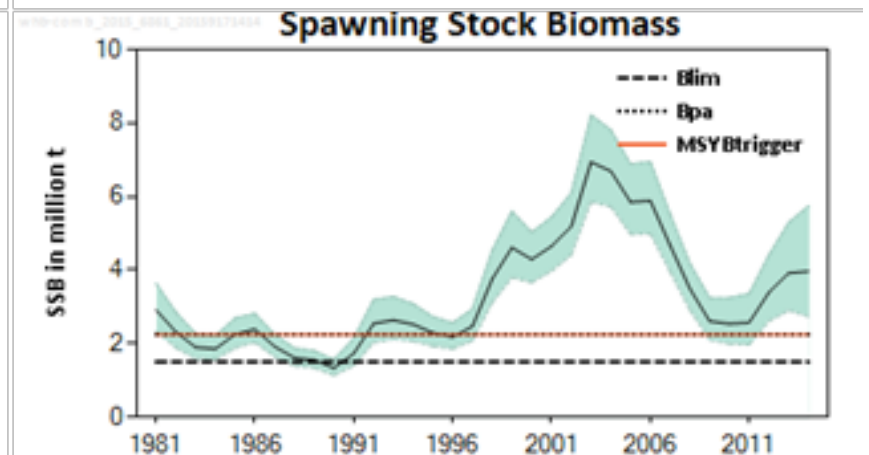
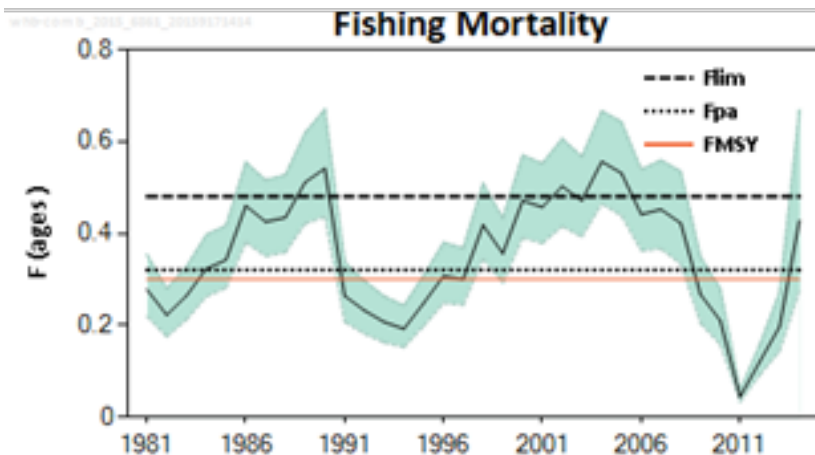
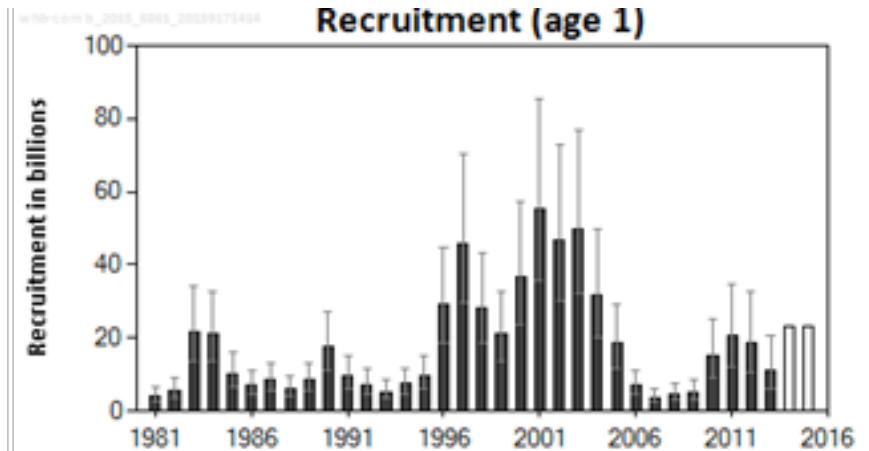
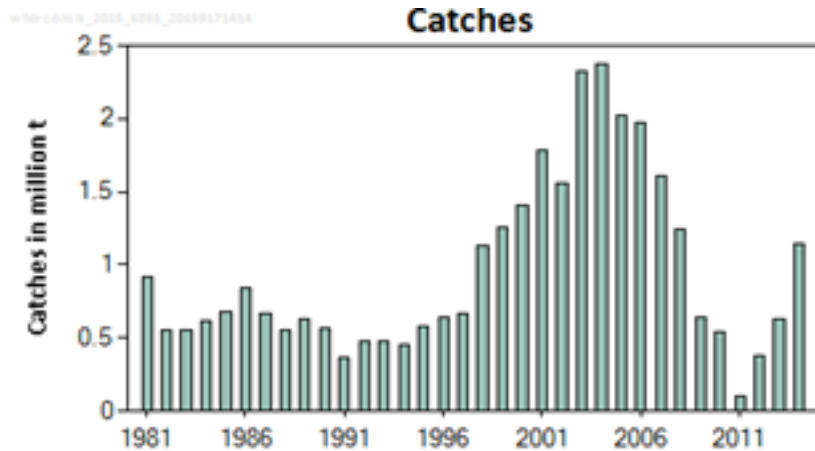
Weights in tonnes.

\* SSB 2017 relative to SSB 2016.

\*\* Catch in 2016 relative to estimated catches in 2015. There is no internationally agreed TAC for 2015

Svartkjaftur

# Svartkjaftur: stöðan í dag



# Svartkjaftur: ICES tilráðing fyri 2016

ICES advises that when the MSY approach is applied, catches in 2016 should be no more than **776 391 t**.

		Fishing pressure			Stock size			
		2012	2013	2014	2013	2014	2015	
Maximum Sustainable Yield	$F_{MSY}$	✓	✓	✗ Above	MSY	✓	✓	✓ Above trigger
Precautionary approach	$F_{pa}$ $F_{lim}$	✓	✓	⚠ Increased risk	$B_{trigger}$	✓	✓	✓ Full reproductive capacity
Management Plan	$F_{MGT}$	-	-	- Not applicable	$B_{pa}$ , $B_{lim}$	✓	✓	✓
					$SSB_{MGT}$	-	-	- Not applicable

Tilráðing fyri 2015: 839 886 t, 7.6% minking í 2016

# Svartkjaftur: veiða og útlit

Basis:  $F(2015) = 0.501$ ;  $Catch(2015) = 1.3$  mmill t;  $SSB(2016) = 3.618$  mill t

Rationale	Catch (2016)	Basis	F 2016	SSB (2017)	% SSB change *	% Catch change **
MSY framework	776.391	FMSY = 0.30	0.30	3827.988	6	-40
Zero catch	0	F = 0	0	4569.654	26	-100
F=0.18	489.605		0.18	4100.934	13	-62
F=0.20	539.449		0.20	4053.403	12	-59
F=0.22	588.451		0.22	4006.712	11	-55
F=0.25	660.414		0.25	3938.210	9	-49
Fpa 0.32	821.443	Fpa	0.32	3785.232	5	-37
$1.0 \times F(2015)$	1198.073	Multiplier on F	0.50	3429.248	-5	-8
$1.50 \times F(2015)$	1637.036	Multiplier on F	0.75	3018.104	-17	26
Status quo catch	1300.000	Catch 2016 = 2015	0.56	3334.140	-8	0

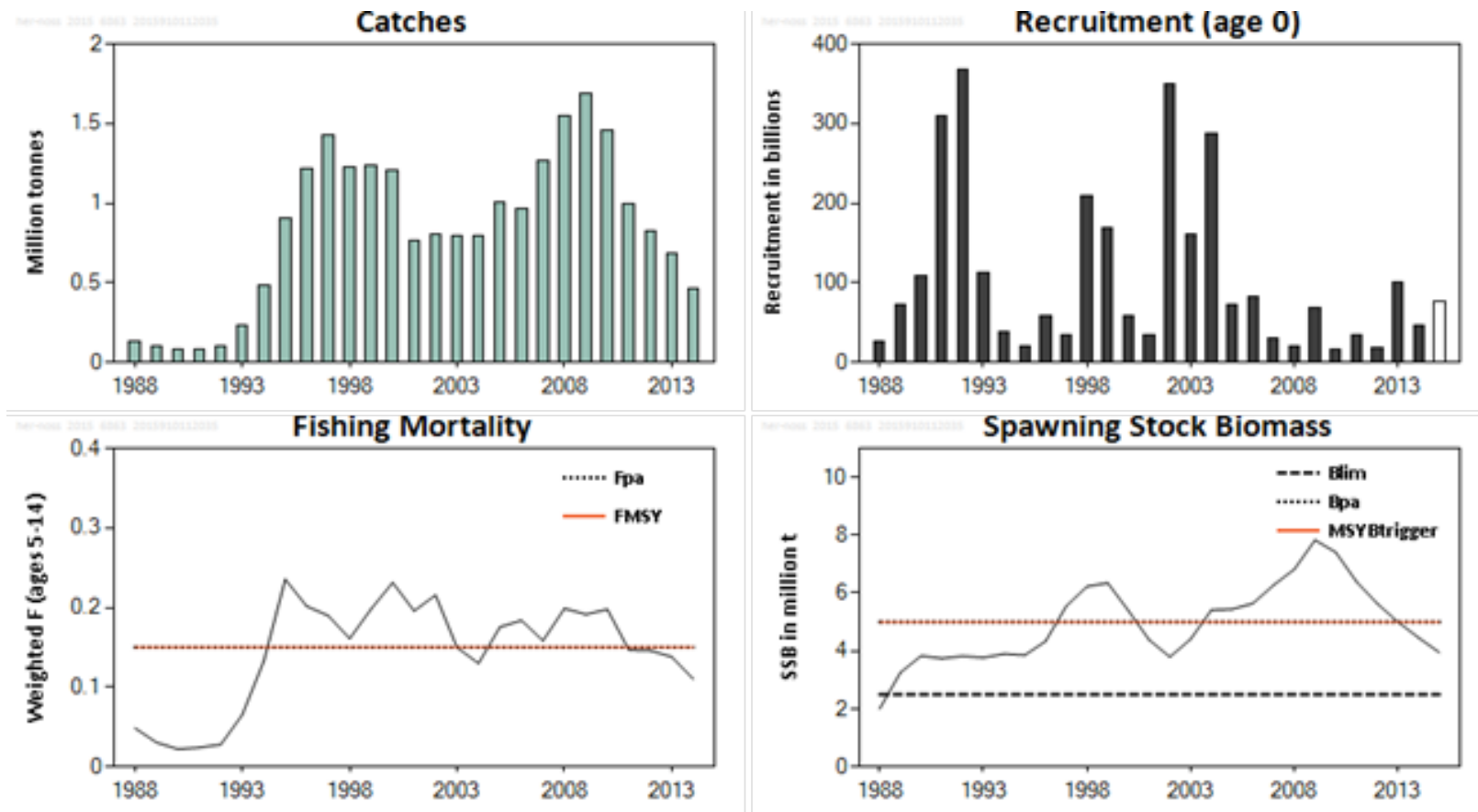
Weights in thousand tonnes

\* SSB 2017 relative to SSB 2016

\*\* Catch 2016 relative to estimated catch in 2015 (1300 kt)

Norðhavssild

# Síð: stöðan í dag



Vánalig tilgongd síðani 2005 => SSB minskar framhaldandi  
Tó positiv tekin um 2009 og kanska 2013 árgangirnar

# Síld: ICES tilráðing fyri 2016

ICES advises that when the EU, Faroe Islands, Iceland, Norway, and Russia management plan is applied, catches in 2016 should be no more than **316 876 t**.

		Fishing pressure			Stock size				
		2013	2014	2015	2013	2014	2015		
Maximum sustainable yield	$F_{MSY}$	✓	✓	✓	MSY	✓	✗	✗	Below $B_{trigger}$
Precautionary approach	$F_{pa}$	✓	✓	✓	$B_{pa}, B_{lim}$	✓	○	○	Increased risk
Management plan	$F_{MGT}$	✗	✗	✓	$SSB_{MGT}$	✓	✗	✗	Below trigger

Tilráðing fyri 2015: 283 013 t, 12% vøkstur í 2016



# Sild: veiða og útlit

Basis:  $F_w(2015) = 0.085$ ;  $SSB(2015) = 3\,586$  kt;  $Catches(2015) = 328\,206$  t

Rationale	Catches (2016)	Basis	$F_w(2016)^*$	SSB(2017)	% SSB change**	% Catch change***
Agreed management plan	316 876	$F_{MP}$	0.083	3 566 000	-1	-3
MSY approach	406 787	$F_{MSY} \times (SSB_{2016}/MSY)$ $B_{trigger}=0.717)$	0.108	3 489 000	-3	24
Zero catch^	0	$F = 0$	0	3 836 000	7	-100
Other options	322 874	$F_{2015}$	0.085	3 560 000	-1	-2

Weights in tonnes.

\*  $F_w$  = Fishing mortality weighted by population numbers (age groups 5–14).

\*\* SSB 2017 relative to SSB 2016.

\*\*\* Catches 2016 relative to catch 2015.

TAC, kvotur og útlit

# Tilráðing, TAC og fiskiskapur 2016

(‘000 t)	Tilráðing 2016	Mett veiða 2016	FO kvota 2016	% yvir TAC
Svartkjaftur	776	1100	276	42
Norðhavssild	317	357	57	13*
Makrelur	667	1100	113	64

## Útlit:

Svartkjaftur, góð tilgongd, men harður fiskiskapur á óbúnan fisk

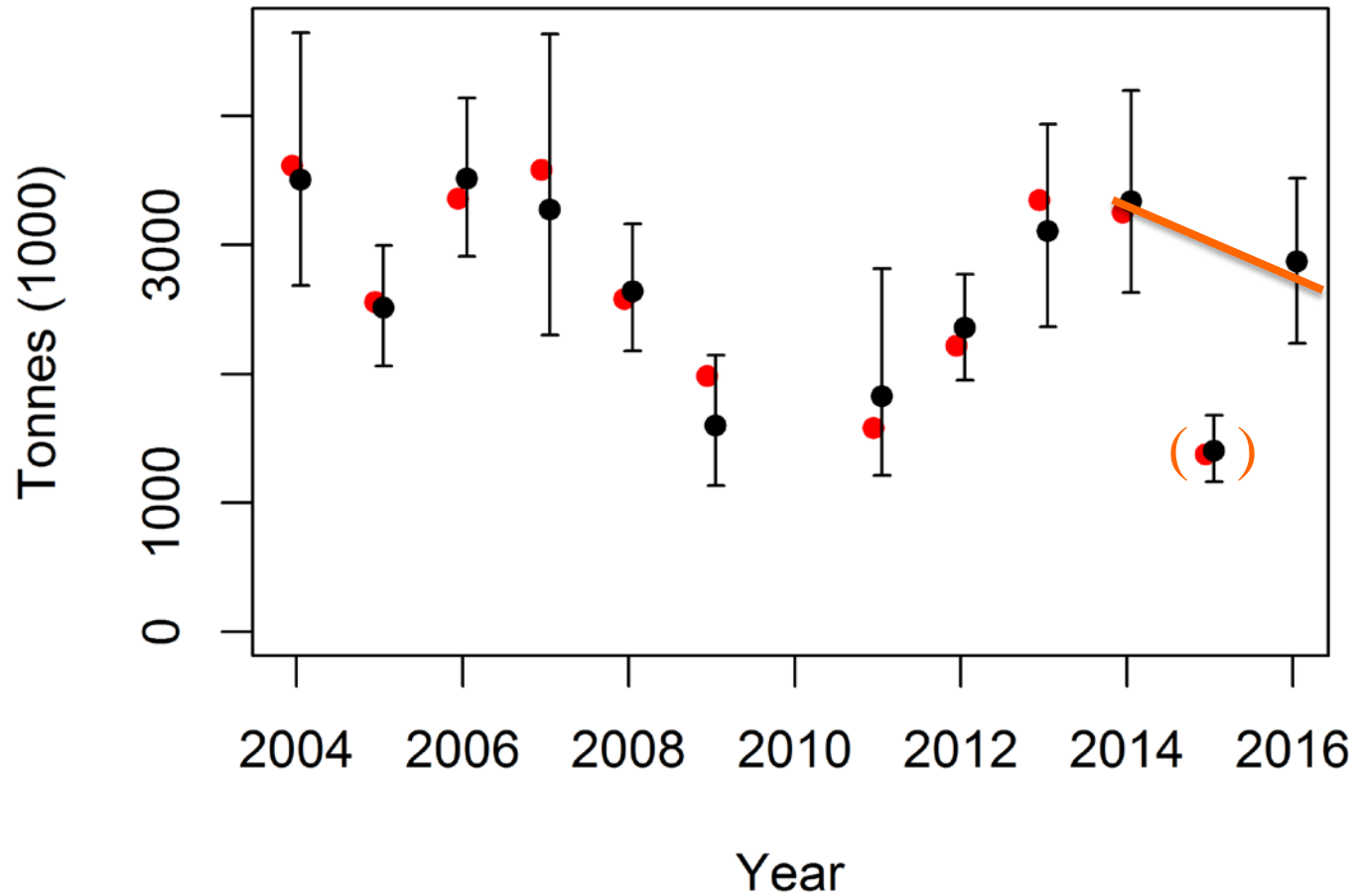
Sild, vánalig tilgongd, men ikki so illa fyri sum væntað

Makrelur, góð tilgongd, minkandi vøkstur, harður fiskiskapur

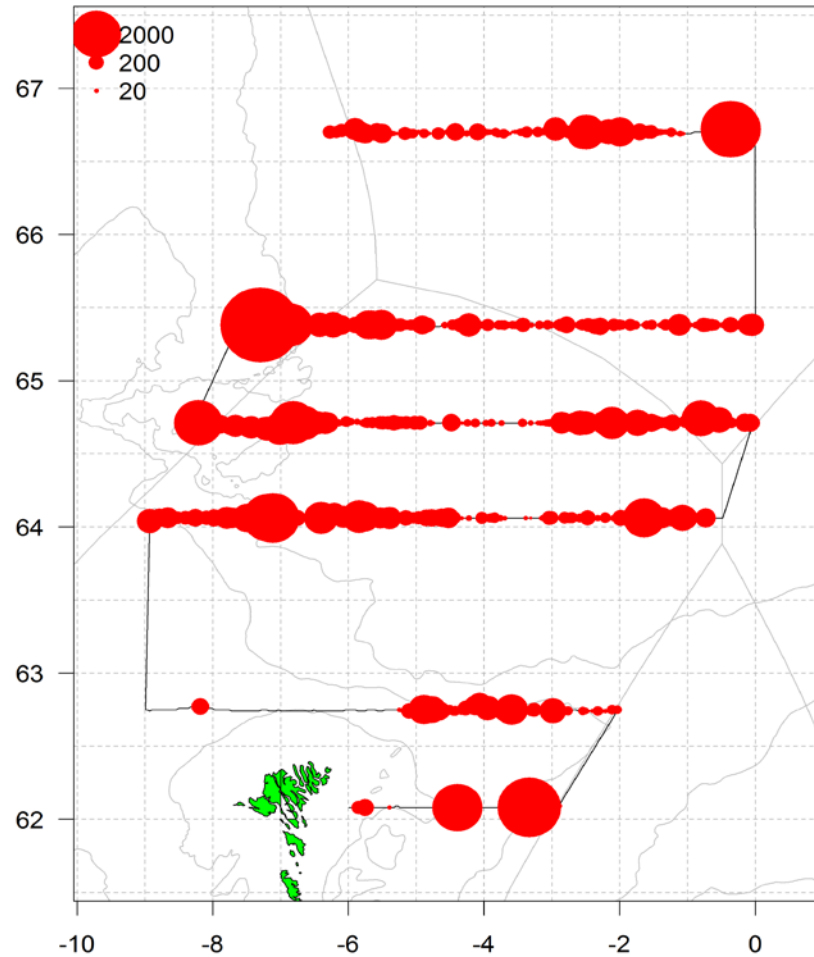
\* < MSY catch

# Nýggjar kanningar 2016

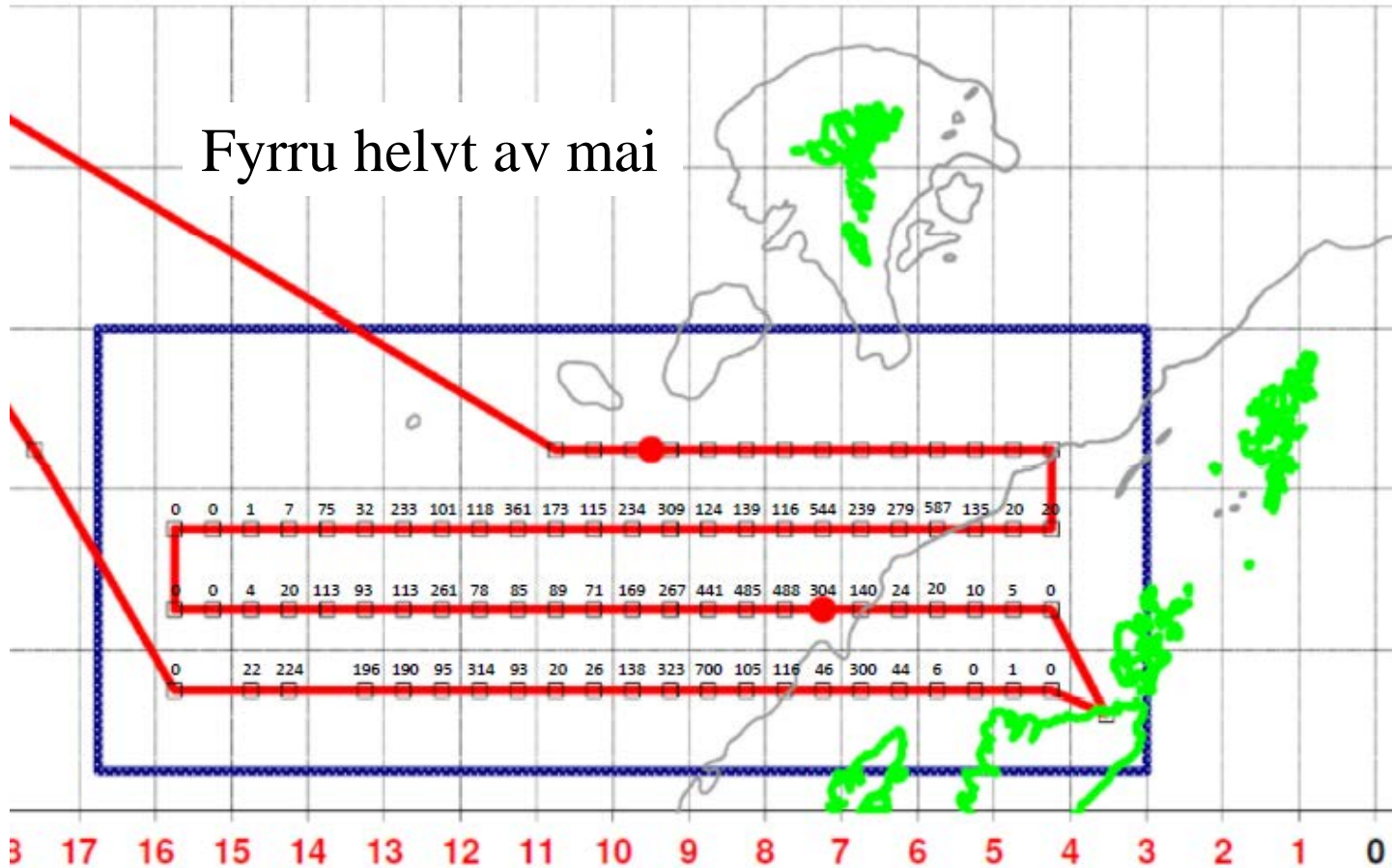
# Svartkjaftur, kanningar 2004-2016



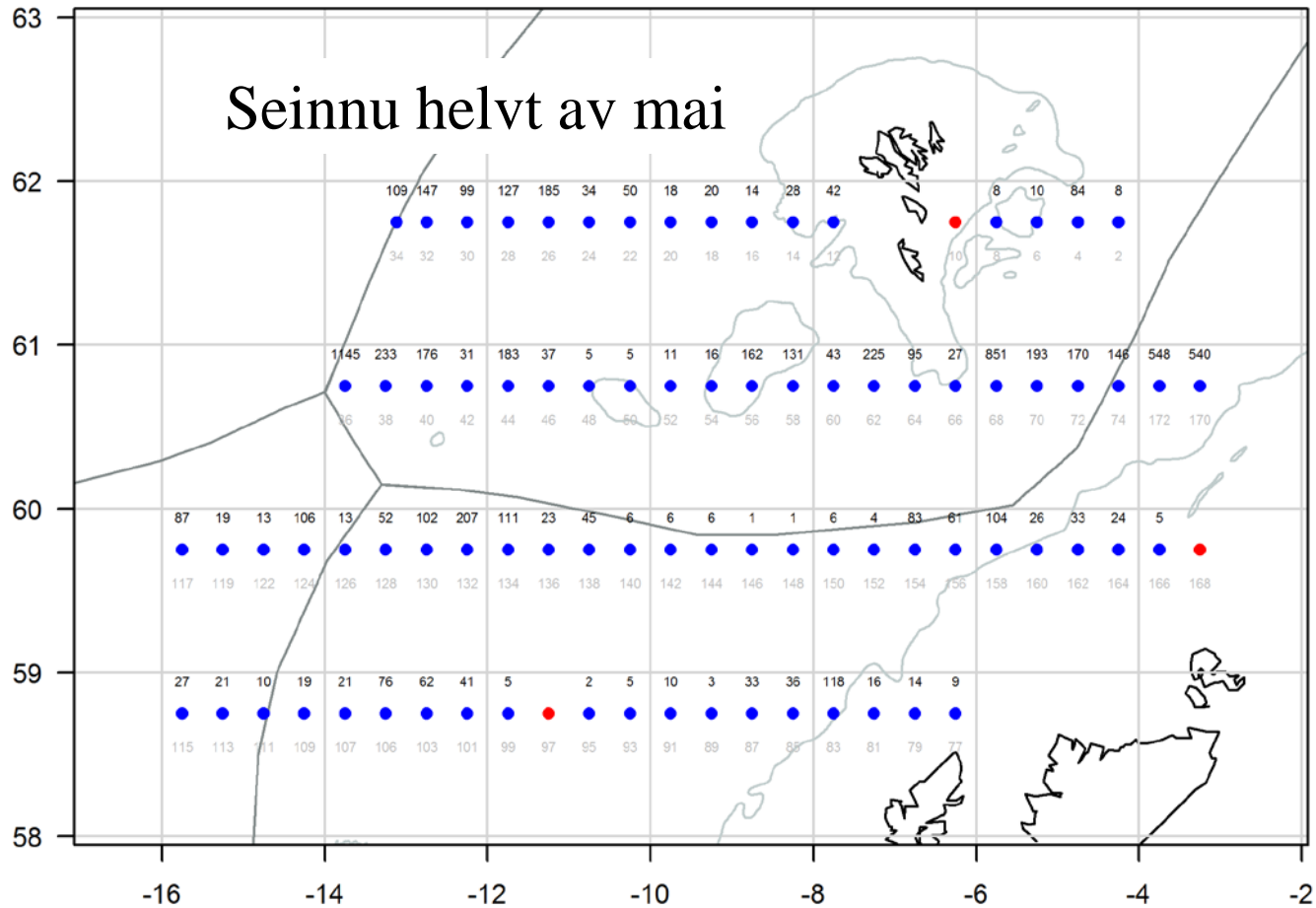
# Norðhavssild, MH mai 2016



# Makrelur, Ísland, eggtefjing 2016

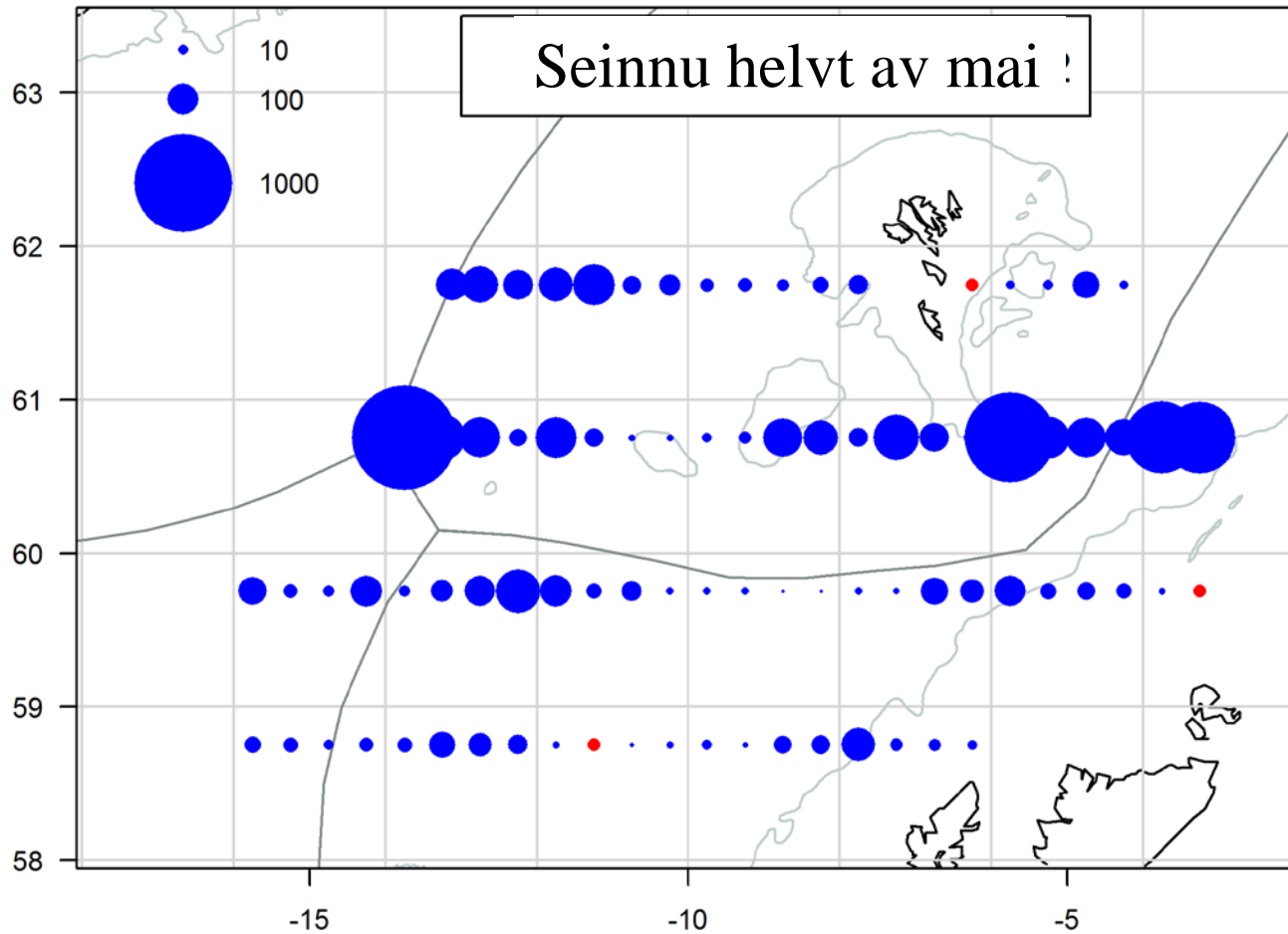


# Makrelur, FO, eggtefjing 2016

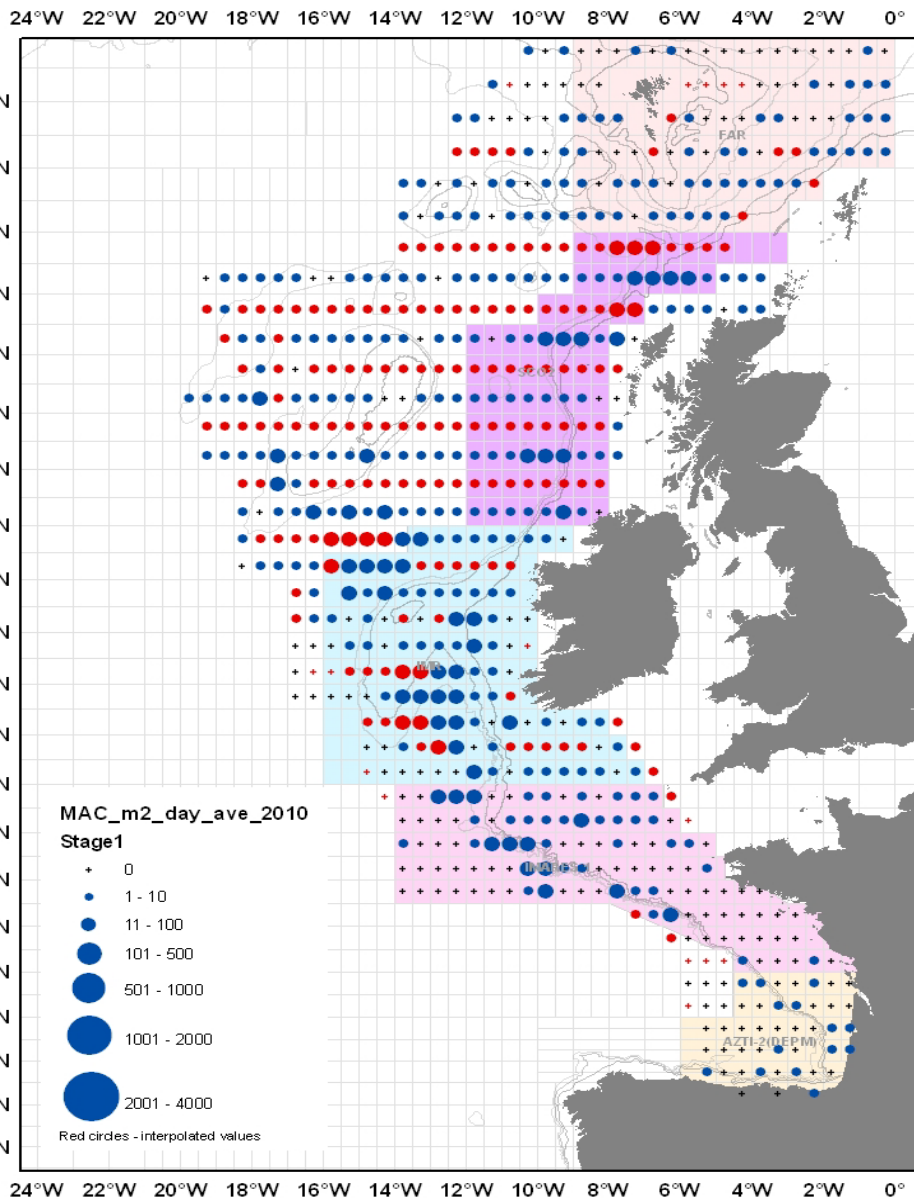




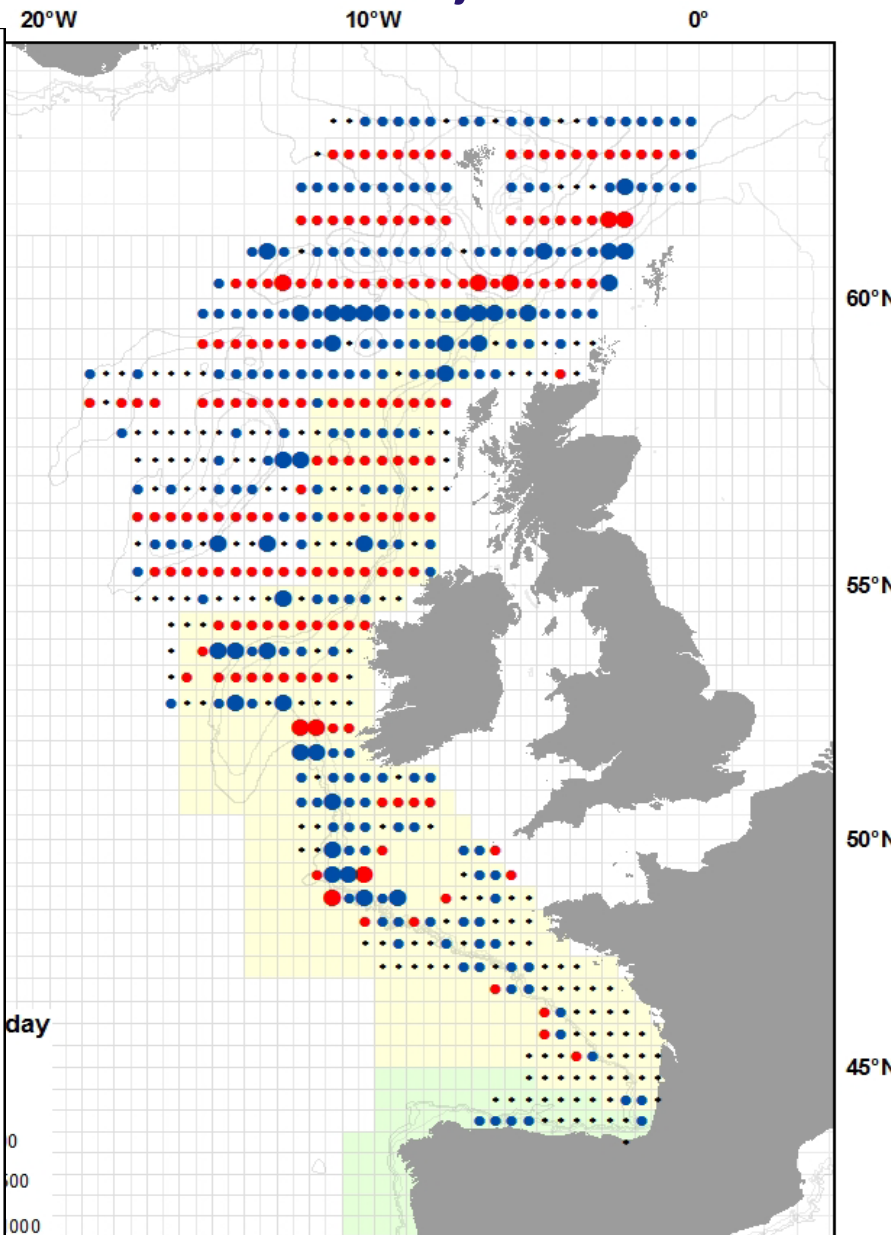
# Makrelur, FO eggtefjing 2016



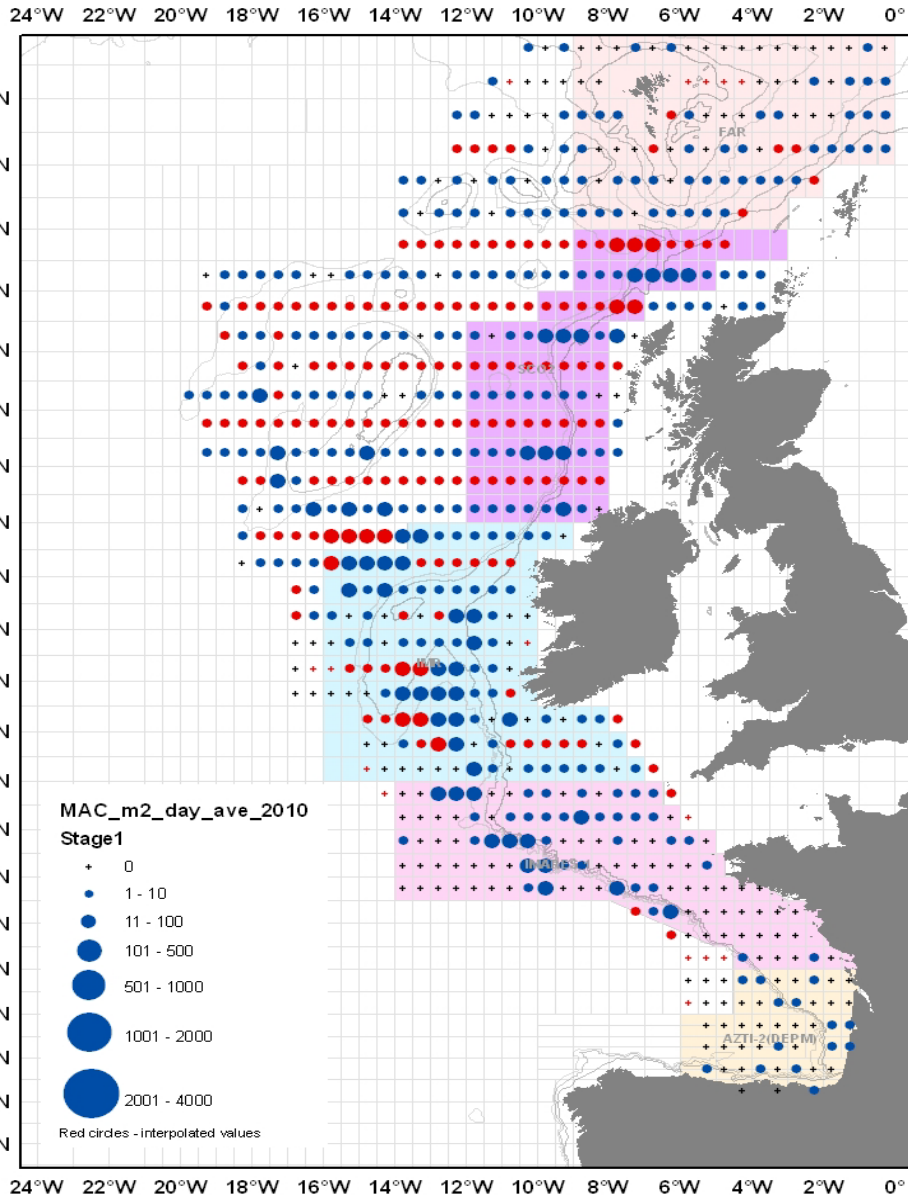
# Eggteijing 10-30 mai 2010



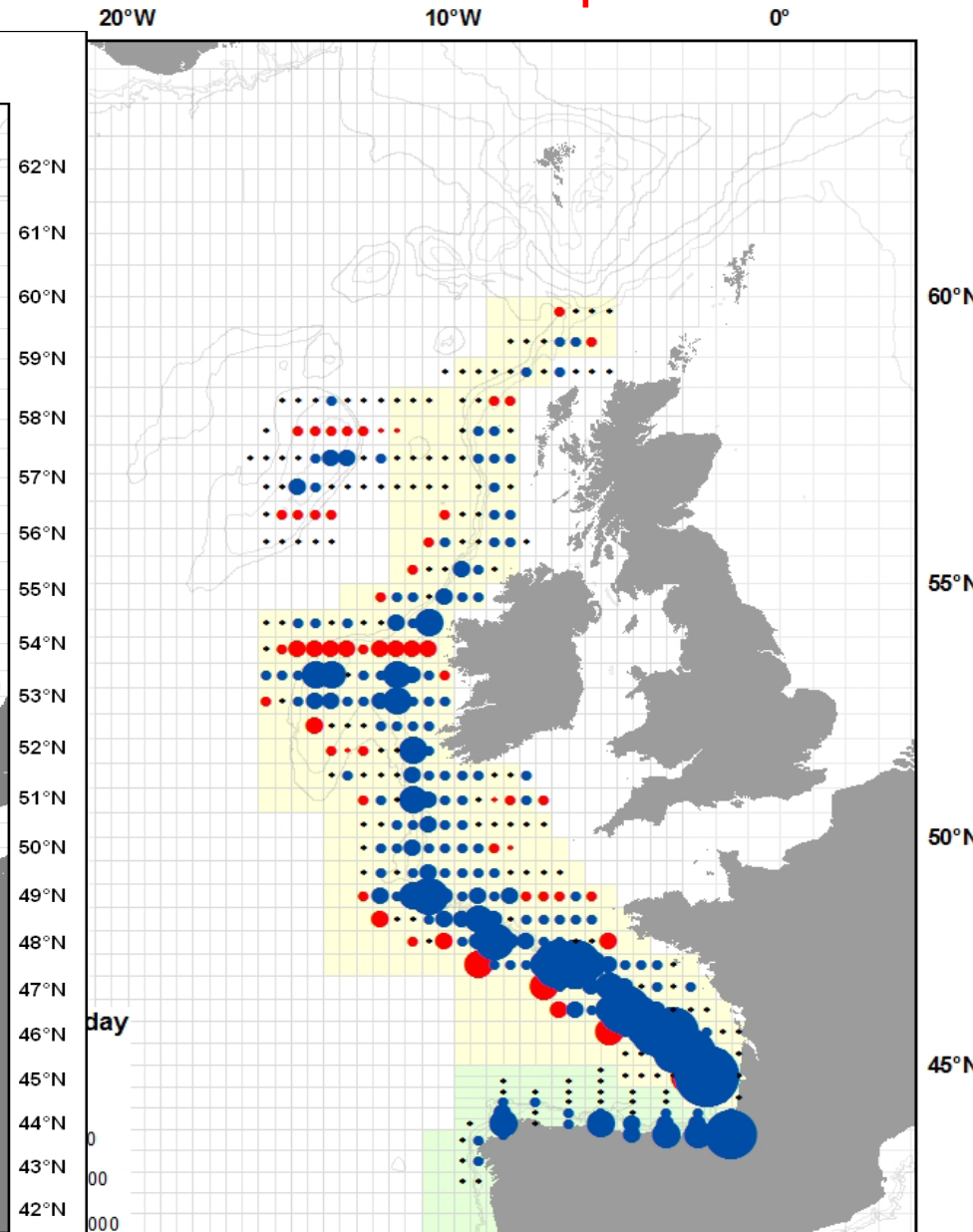
# 7 mai – 3 juni 2013



# Eggteijing 10-30 mai 2010



# 8 mars – 11 april 2013



Takk fyri