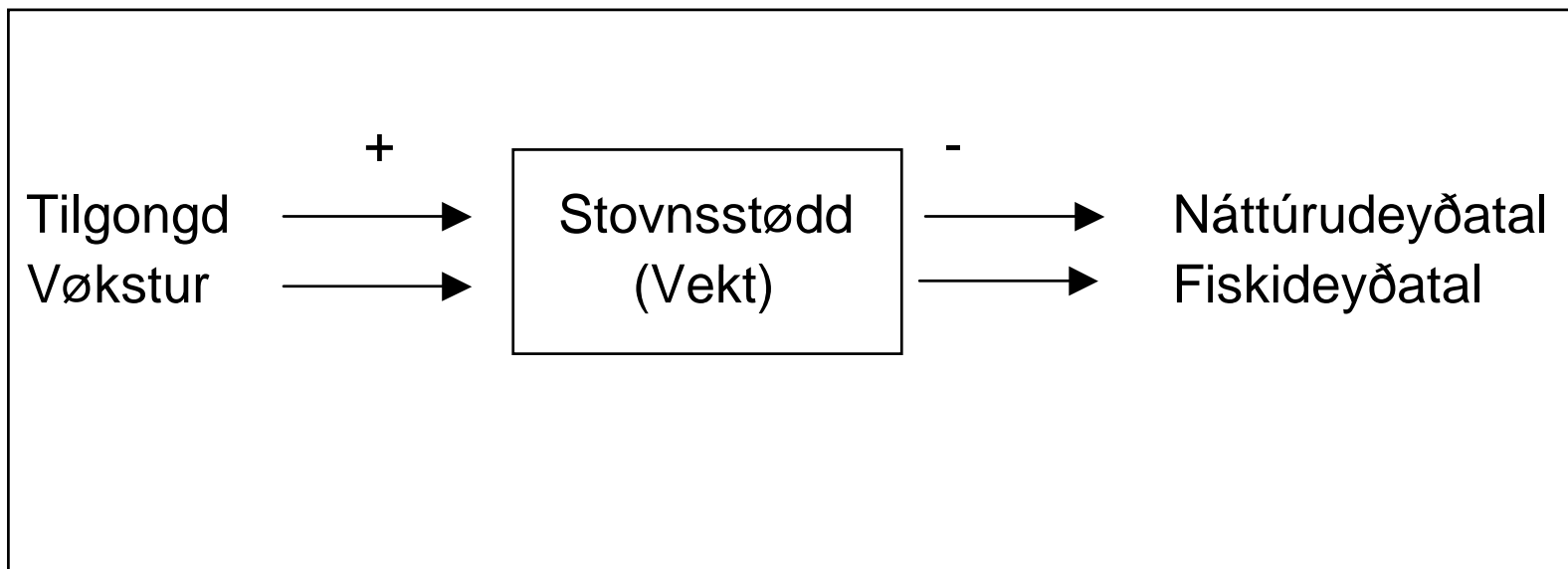


Stovnsmetingar 2011 og útlit  
fyri tosk, hýsu og upsa  
og  
ICES ráðgeving fyri 2012

Jákup Reinert





Viðurskifti, ið ávirka støddina á einum stovni

ICES er í ferð við at broyta leist í sambandi við at geva ráðgeving:

Reglan um fyrivarni (**P**recautionay **A**pproach):

m.a. tryggja at stovnar verða veiddir burðardygt

Mestu varandi veiðu (**M**aximum **S**ustainable **Y**ield):

Umframt at veitt verður burðardygt, so skal eisini tryggjast, at sum mest fæst burtur úr stovnunum

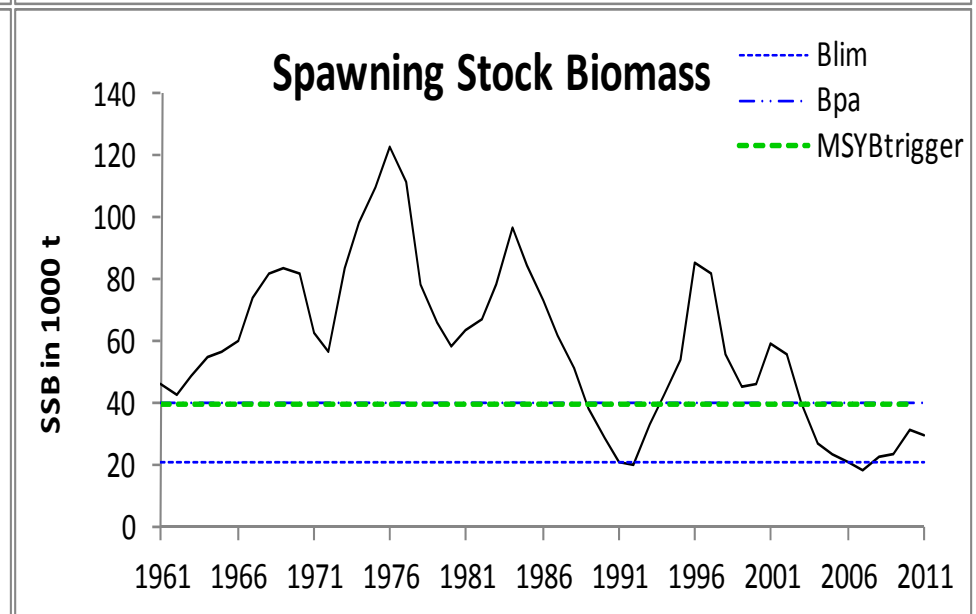
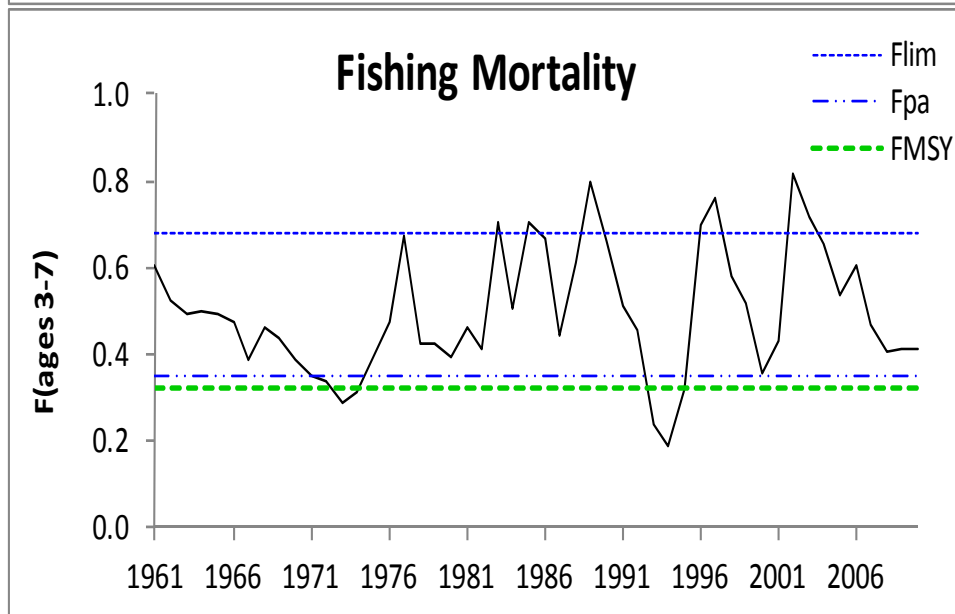
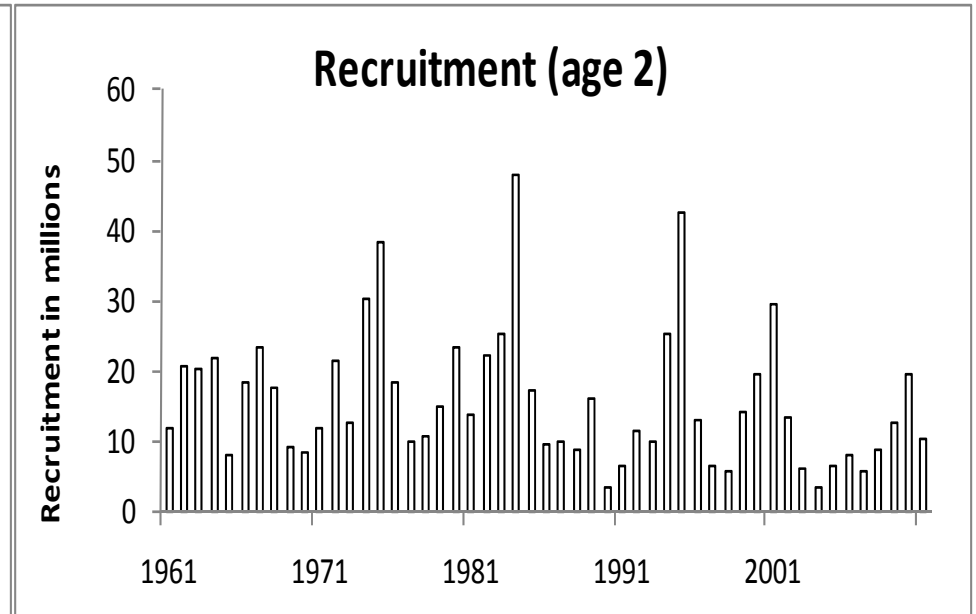
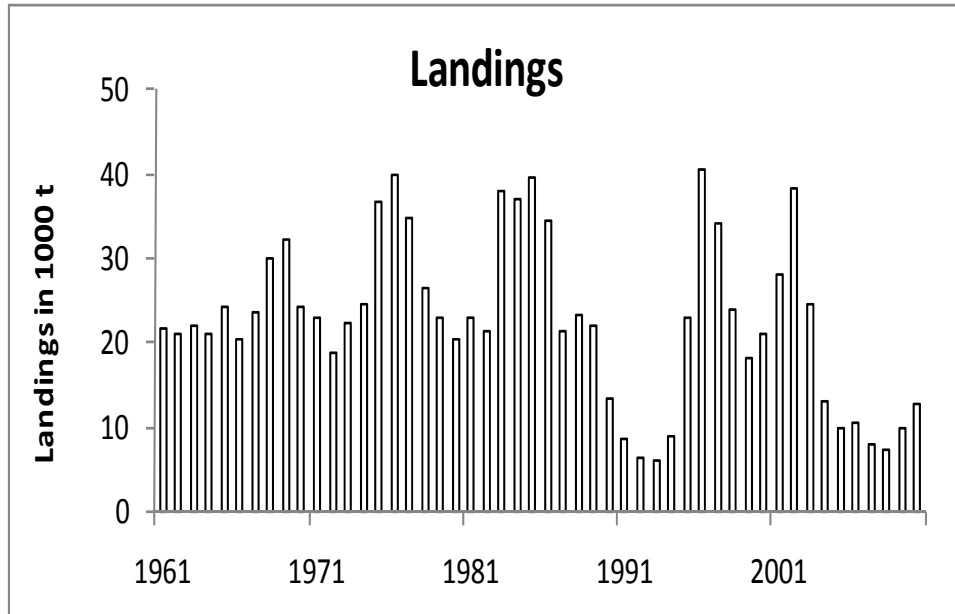
# Toskur á Landgrunninum

	<i>Type</i>	<i>Value</i>	<i>Technical basis</i>
MSY	MSY	40 000 t	$B_{pa}$ .
Approach	$B_{trigger}$		
	$F_{MSY}$	0.32	Provisional maximum sustainable yield, FLR stochastic simulations.
Precautionary	$B_{lim}$	21 000 t	Lowest observed SSB (1998 assessment).
	$B_{pa}$	40 000 t	$B_{lim} e^{1.645\sigma}$ , assuming a $\sigma$ of about 0.40 to account for the relatively large uncertainties in the assessment.
	Approach	$F_{lim}$	0.68
	$F_{pa}$	0.35	Close to $F_{max}$ (0.34) and $F_{med}$ (0.38) (1998 assessment).

# ICES ráðgeving fyrir 2012:

Við stóð í sonevndu MSY regluni mælir ICES til, at veiðutrýstið (F) fyrir tosk á Landgrunninum verður lækkað 30% í mun til miðal veiðutrýstið í 2008-2010

# Yvirlit yvir stovnsmetingarnar 2011



# Útlit fyri 2012-13

<b>Rationale</b>	<b>F (2012)</b>	<b>Landing s (2012) <sup>2)</sup></b>	<b>Basis</b>	<b>SSB (2013)</b>	<b>%SSB change 1)</b>
MSY framework	0.29	10	$F_{MSY}^*$ $SSB_{2012}/B_{trigger}$ $= F_{sq} * 0.7$	39	7
Precautionary Approach	0.35	12	$F_{pa} (=F_{sq} * 0.85)$	37	2
Zero catch	0	0	$F=0$	49	34
<i>Status quo</i>	0.41	14	$F_{sq}$	36	1
	0.21	8	$F_{sq} * 0.50$	42	14
	0.31	11	$F_{sq} * 0.75$	38	5
	0.32	11	$F_{MSY} = F_{sq} * 0.78$	38	4
	0.37	13	$F_{sq} * 0.90$	37	1
	0.45	15	$F_{sq} * 1.1$	35	-5

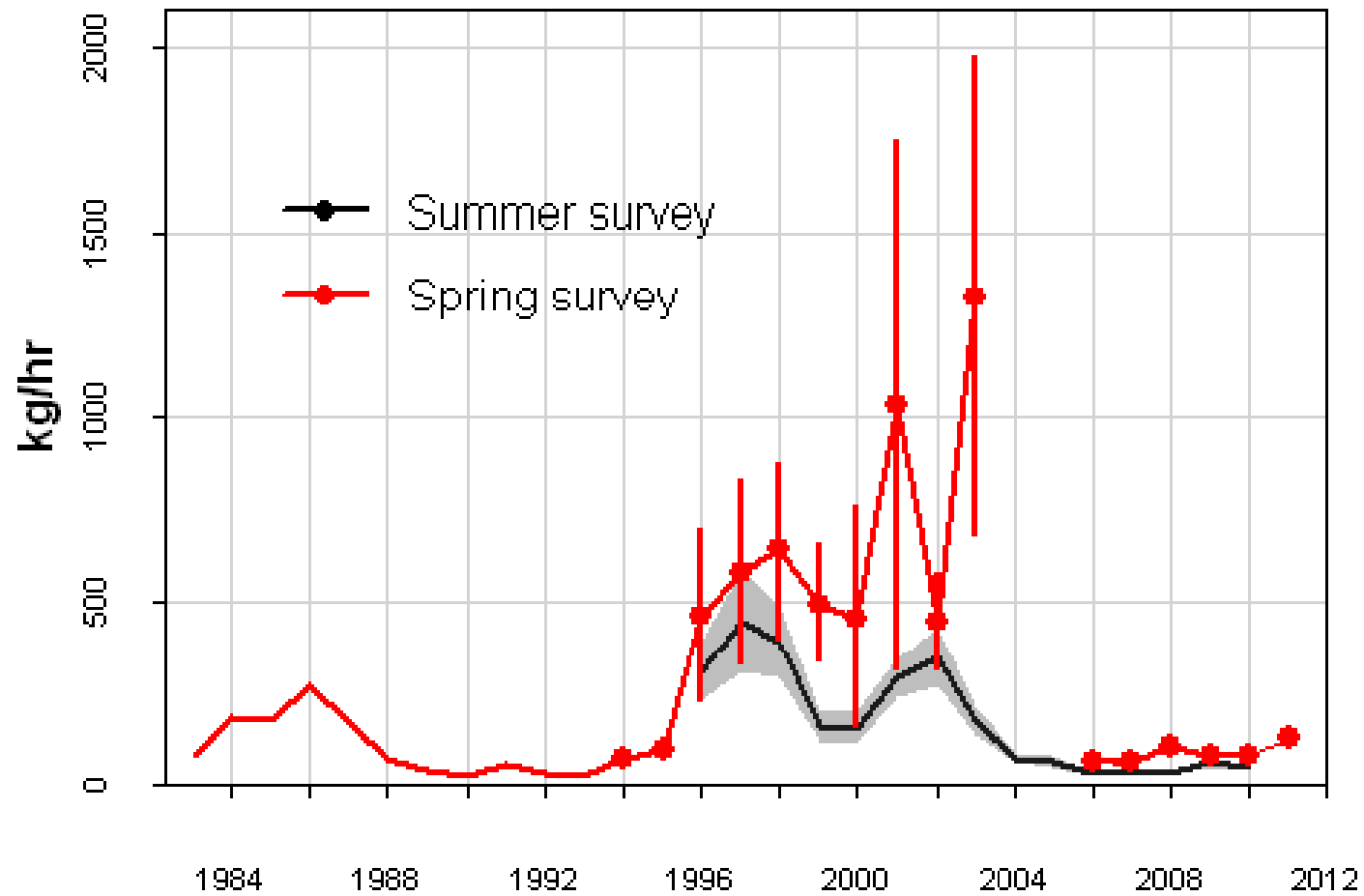
# Toskur á Føroyabanka

Stovnsmetingin og ráðgevingin eru grundað á úrslit frá yvirlitstrolingum:

ICES mælir til, at eingin veiða verður loyvd á Føroyabanka, fyrr enn úrslitini frá yvirlitstrolingunum eru á minst sama støði sum í 1996-2002



# Yvirlitstrolingar á Føroyabanka



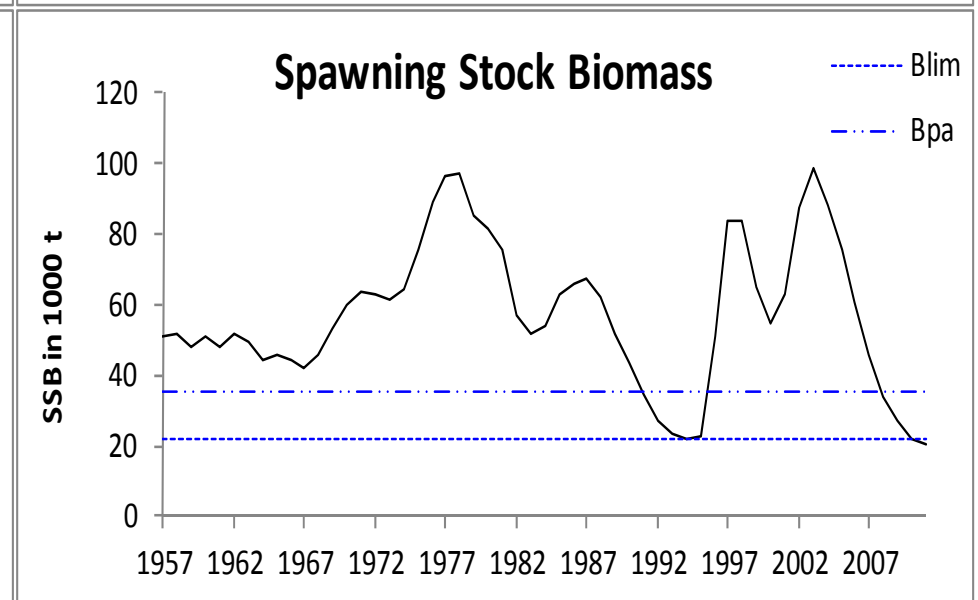
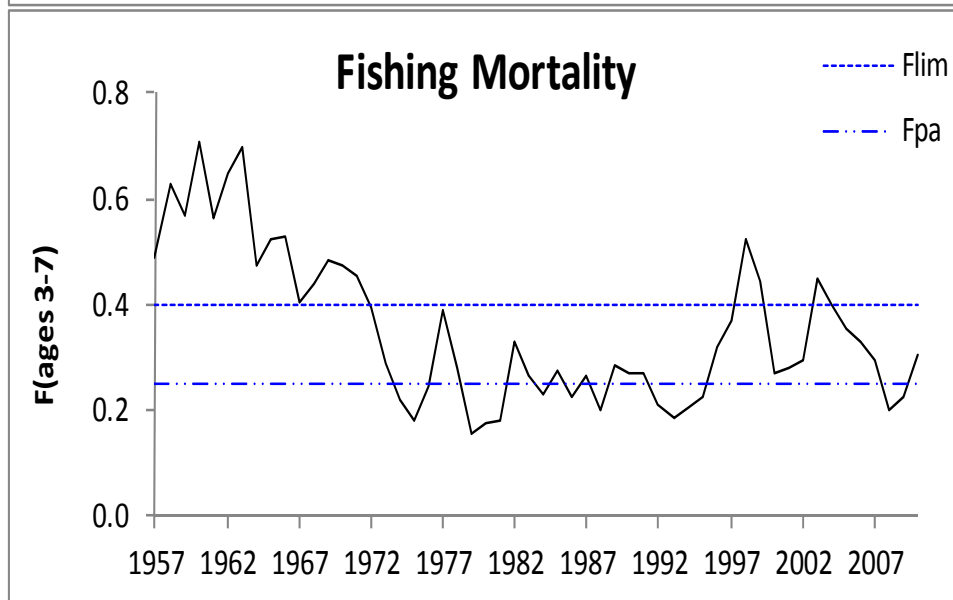
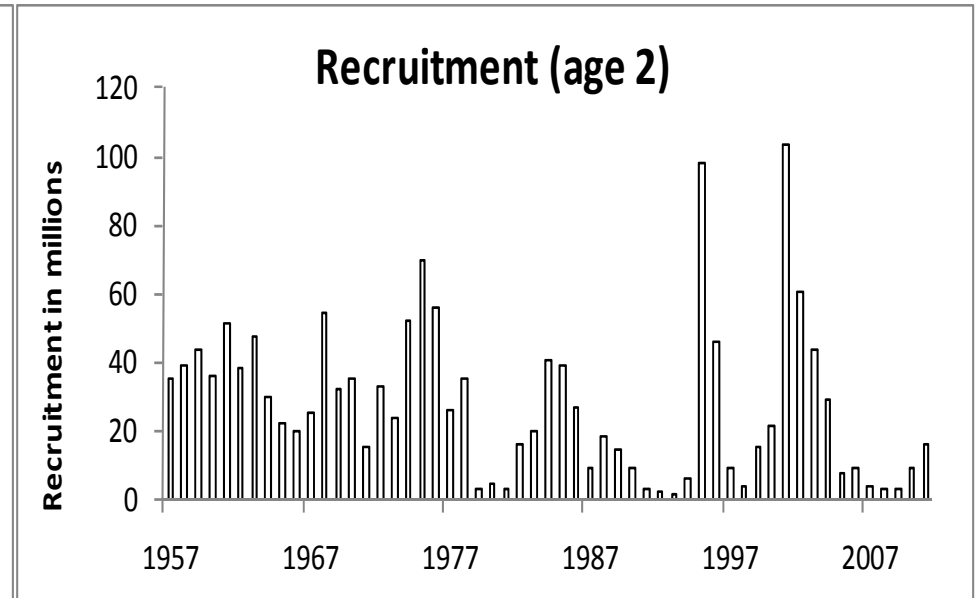
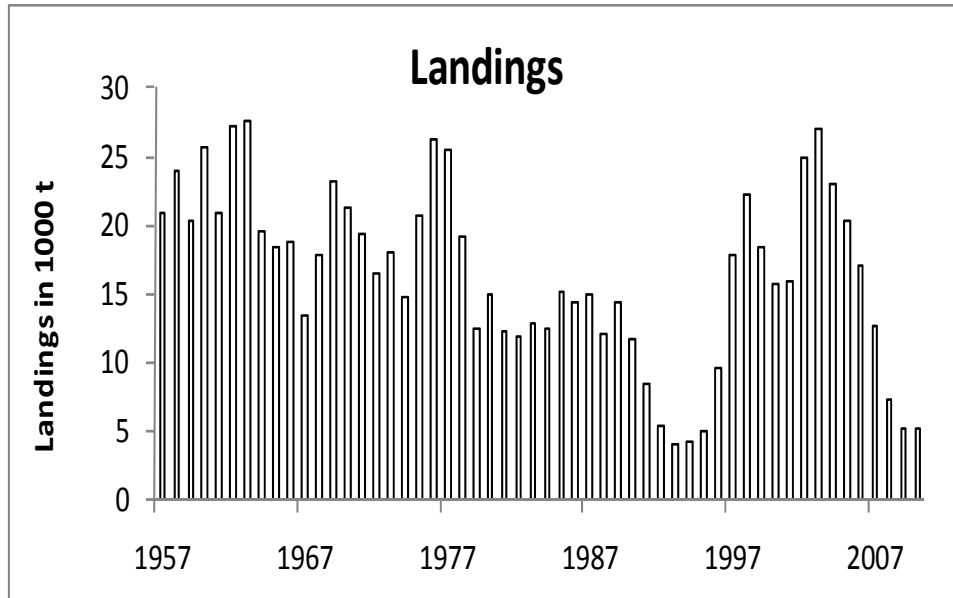
# Hýsa undir Føroyum

	<i>Type</i>	<i>Value</i>	<i>Technical basis</i>
MSY Approach	MSY	Not defined	
	$B_{\text{trigger}}$	Not defined	
Precautionary Approach	$F_{\text{MSY}}$	Not defined	
	$B_{\text{lim}}$	22 000 t	Lowest observed SSB.
	$B_{\text{pa}}$	35 000 t	$B_{\text{lim}} e^{1.645\sigma}$ , with $\sigma$ of 0.3.
	$F_{\text{lim}}$	0.40	$F_{\text{pa}} e^{1.645\sigma}$ , with $\sigma$ of 0.3.
	$F_{\text{pa}}$	0.25	$F_{\text{med}}(1998) = 0.25$ .

# ICES ráðgeving fyrir 2012:

Við stóði í fyrivarnisregluni mælir ICES til, at eingin beinleiðis fiskiskapur verður eftir hýsu, at hjáveiðan í øðrum fiskiskapum verður so lítil sum møguligt, og at ein ætlan verður gjørd fyri at fáa stovnin at koma fyri seg aftur (upp um  $B_{pa} = 35$  tús. tons).

# Yvirlit yvir stovnsmetingarnar 2011



# Útlit fyri 2012-13

<b>Rationale</b>	<b>F (2012)</b>	<b>Landings (2012)</b>	<b>Basis</b>	<b>SSB (2013)</b>	<b>%SSB change <sup>1)</sup></b>
Zero catch	0	0	F=0	25	20
<i>Status quo</i>	0.15	3	$F_{sq} * 0.50$	22	9
	0.23	4	$F_{sq} * 0.75$	21	5
	0.25	4	$F_{pa}$ (= $F_{sq} * 0.83$ )	21	5
	0.27	5	$F_{sq} * 0.90$	20	0
	0.3	5	$F_{sq}$	20	0
	0.45	7	$F_{MP}$	18	-11

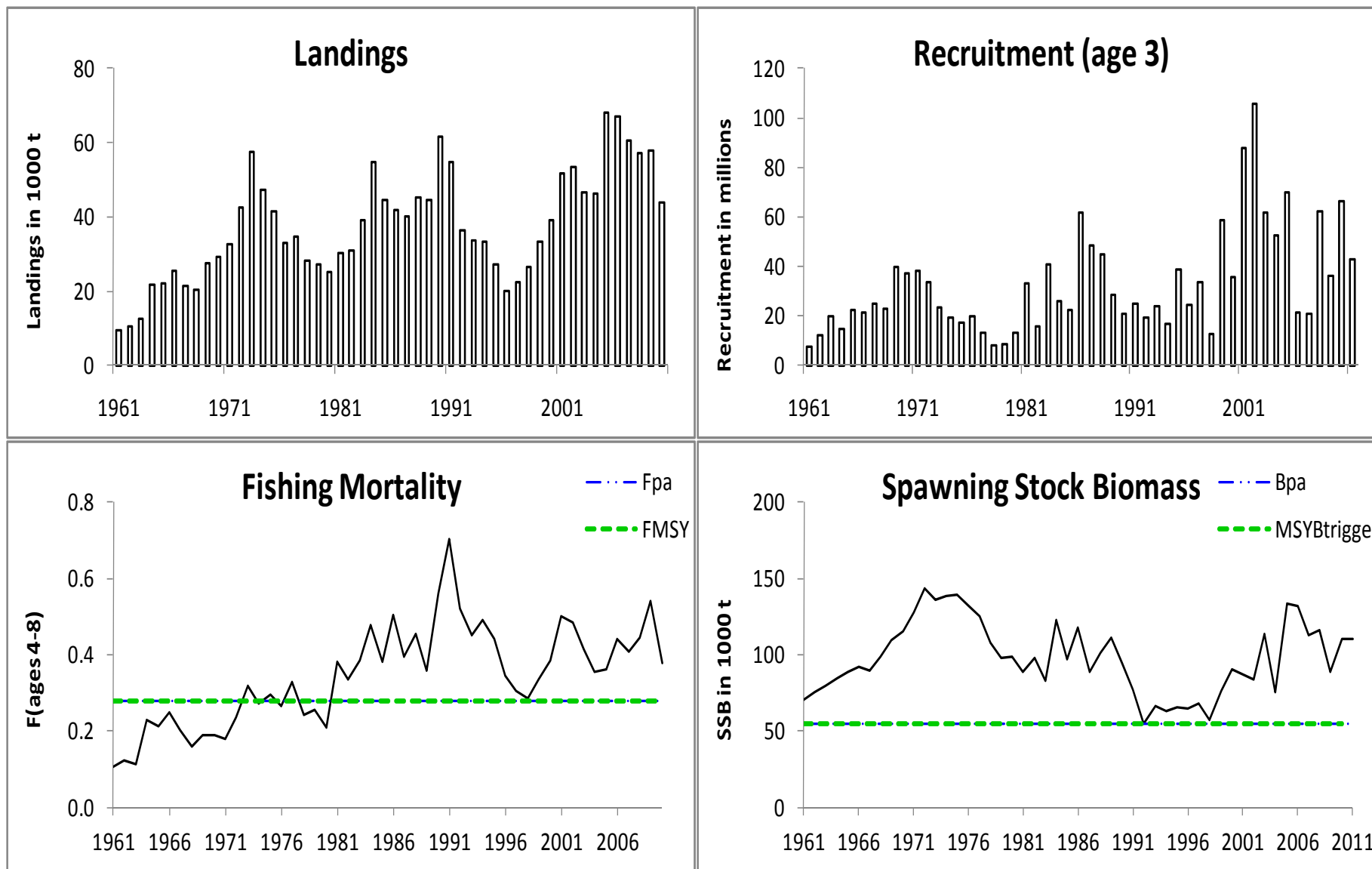
# Upsi undir Føroyum

	<i>Type</i>	<i>Value</i>	<i>Technical basis</i>
MSY	MSY	55 000 t	Breakpoint in segmented regression.
Approach	$B_{\text{trigger}}$		
	$F_{\text{MSY}}$	0.28	Provisional, stochastic simulations.
Precautionary Approach	$B_{\text{lim}}$	Undefined	
	$B_{\text{pa}}$	55 000 t	$B_{\text{loss}}$ in 2011.
	$F_{\text{lim}}$	Undefined	
	$F_{\text{pa}}$	0.28	

# ICES ráðgeving fyri 2012

Við støði í sonevndu MSY regluni mælir ICES til, at veiðutrýstið (F) fyri upsa undir Føroyum verður lækkað 38% í mun til miðal veiðutrýstið í 2008-2010

# Yvirlit yvir stovnsmetingarnar 2011





# Útlit fyri 2012-13

<b>Rationale</b>	<b>F (2012)</b>	<b>Landings (2012)</b>	<b>Basis</b>	<b>F (2012)</b>	<b>SSB (2013)</b>	<b>%SSB change <sup>1)</sup></b>
MSY approach	0.28	40	$F_{MSY}$ (= $F_{2011} * 0.62$ )	0.28	119	2
Precautionary Approach	0.28	40	$F_{pa}$ (= $F_{2011} * 0.62$ )	0.28	119	2
Zero catch	0	0	F=0	0	154	44
<i>Status quo</i>	0.23	33	$F_{2011} * 0.50$	0.23	125	5
	0.33	47	$F_{2011} * 0.75$	0.33	113	-9
	0.40	54	$F_{2011} * 0.90$	0.40	107	-17
	0.42	57	$F_{2011} * 0.95$	0.42	104	-11
	0.45	59	$F_{2011}$	0.45	101	-12

## Tillutaðir og nýttir fiskidagar síðani 2008/09

Fleet segment	Allocated days 2008/09	Used days 2008/09	% used days 2008/09	Allocated days 2009/10	Used days 2009/10	% used days 2009/10	Allocated days 2010/11
Group 1							900
Group 2	5073	4065	80	4759	3323	70	4274
Group 3	3062	2273	74	2697	1663	62	2852
Group 4A		415		882	335	38	1323
Group 4B	4795	1016	60	1630	934	57	1756
Group 4T		1434		1481	1382	93	1540
Group 5A	7267	3256	45	6904	3588	52	7955
Group 5B	10900	3803	35	10335	6160	60	5304
Total	31097	16262	52	28688	17385	61	25904

Takk fyri!