

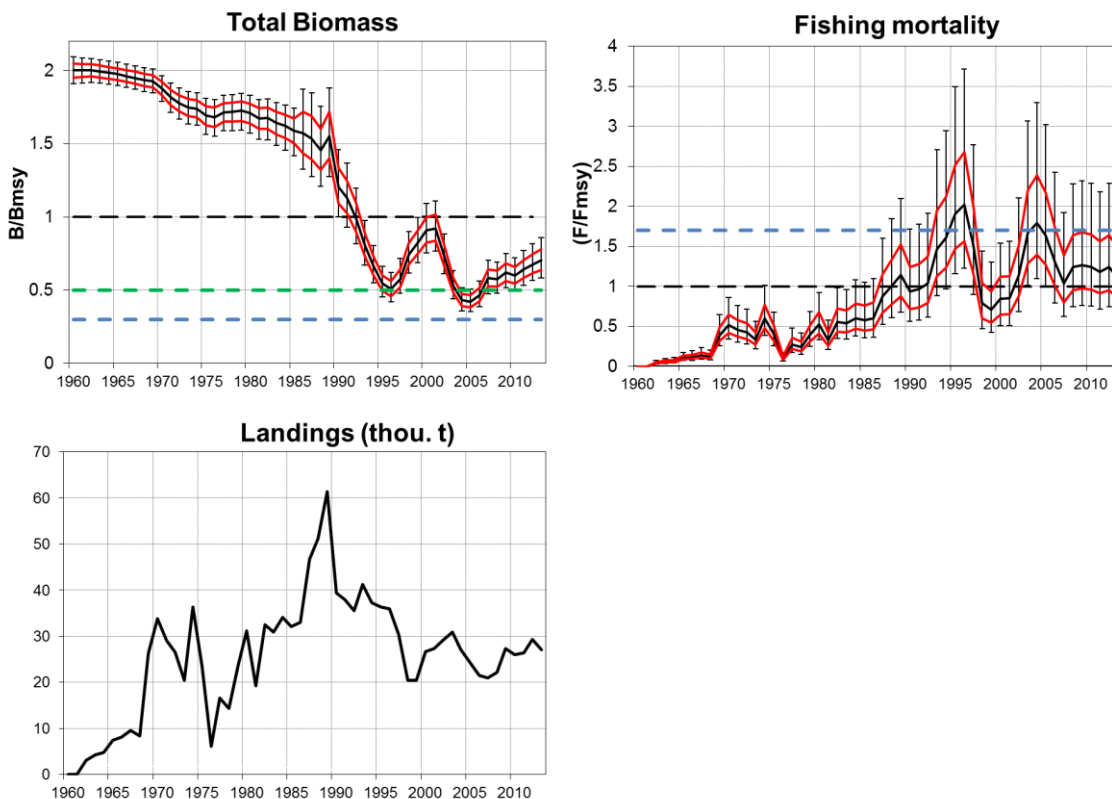
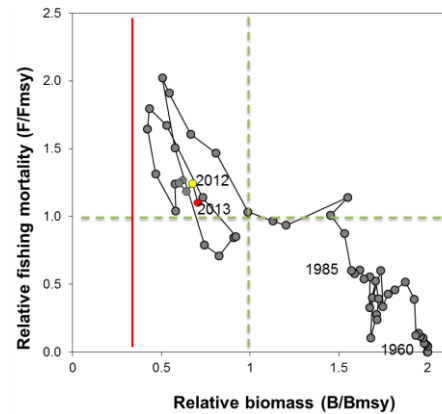
**ECOREGION** Iceland and East Greenland  
**STOCK** Greenland halibut in Subareas V, VI, XII, and XIV

**Advice for 2015**

ICES advises on the basis of the MSY approach that landings in 2015 should be no more than 25 180 t. All catches are assumed to be landed.

**Stock status**

	Fishing pressure		
	2011	2012	2013
MSY ( $F_{MSY}$ )	✗	✗	✗ Above target
Precautionary approach ( $F_{pa}, F_{lim}$ )	✓	✓	✓ Harvested sustainably
	Stock size		
	2012	2013	2014
MSY ( $B_{trigger}$ )	✓	✓	✓ Above Full reproductive capacity)
Precautionary approach ( $B_{pa}, B_{lim}$ )	✓	✓	✓



**Figure 2.3.5.1** Greenland halibut in Subareas V, VI, XII, and XIV. Summary of the stock assessment (weights in thousand tonnes). Upper panels: Trends in biomass and fishing mortality relative to MSY reference points (medians) with indication of 25–75 percentiles (red curves) and 95% confidence intervals (error bars). Bottom panel: Landings. Top right: SSB/F for the time-series used in the assessment.

The assessment is indicative of stock trends and provides relative measures of stock status. The stock has been below  $B_{MSY}$  since the early 1990s and is presently at 71% of  $B_{MSY}$ . Since the record-low biomass observed in 2004 the stock has been stable with a slow increase. Landings have been between 20 000 and 30 000 t for more than a decade. Present fishing mortality is estimated to be 1.1 times the  $F_{MSY}$ .

## Management plans

In 2012 the coastal states initiated work on a common management plan for Greenland halibut in Subareas V, XII, and XIV. The plan will move in two steps; first, a gradual lowering of the total catches until biological reference points have been evaluated by ICES, and thereafter implementation of a harvest control rule in accordance with ICES MSY approach. The plan will include continuous monitoring of the resources and the requirements on information from the fishery. The plan has yet to be finalized.

## Biology

Greenland halibut is a relatively slow-growing and long-lived species. Changes in stock dynamics may take several years. Available biological data and distribution of the fisheries suggest that Greenland halibut in Subareas XIV and V belong to the same entity and do mix, although precise stock associations are not known. Tagging studies suggest that some mixing occurs also with Greenland halibut in the Norwegian Sea/Barents Sea. Nursery grounds are unknown.

## The fisheries

The fishery is distributed over a vast area, but with a substantial part taking place in a limited area west of Iceland. The fishery is mainly conducted by factory trawlers operating with demersal trawl, and to a lesser extent by gillnetters.

<b>Catch distribution</b>	Total catch (2013) is 26 923 t (96% bottom trawl and 4% gillnets/longlines). Discarding is considered to be negligible (less than 1% by weight).
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## Quality considerations

The assessment has improved with the combination of the Greenland and the Icelandic survey indices. Considerable uncertainty remains in the use of commercial cpue prior to 1995. Because of this it is recognized that the biomass and exploitation rates prior to 1995 are particularly unreliable. Further investigation is required to establish how best to evaluate the stock during this period.

## Scientific basis

<b>Stock data category</b>	1 ( <a href="#">ICES, 2014a</a> ).
<b>Assessment type</b>	A probabilistic (Bayesian) version of a surplus production model.
<b>Input data</b>	Commercial catches (international landings, and length frequencies from catch sampling); two survey indices (GRL-deep since 1998, and IS-SMH since 1996,); three commercial indices (Greenland trawlers(1992–2013), Icelandic trawlers (1985–2013), and Faroese trawlers (1995–2013).
<b>Discards and bycatch</b>	Negligible.
<b>Indicators</b>	None.
<b>Other information</b>	A benchmark was conducted in 2013.
<b>Working group</b>	North-Western Working Group ( <a href="#">NWWG</a> ).

**ECOREGION** Iceland and East Greenland  
**STOCK** Greenland halibut in Subareas V, VI, XII, and XIV

**Reference points**

	<i>Type</i>	<i>Value</i>	<i>Technical basis</i>
MSY approach	MSY $B_{trigger}$	$0.5 B_{MSY}$	$B_{MSY}$ is implicitly estimated from surplus production model (ICES, 2007).
	$F_{MSY}$	Relative value.	Implicit, estimated from surplus production model (ICES, 2007). Fishing mortality values expressed relative to $F_{MSY}$ .
Precautionary approach	$B_{lim}$	$0.3 B_{MSY}$	Based on a fraction of $B_{MSY}$ where production is reduced to 50% MSY.
	$B_{pa}$	Not relevant.	Risk calculated directly.
	$F_{lim}$	$1.7 F_{MSY}$	The F that on average gives $B_{lim}$ .
	$F_{pa}$	Not relevant.	Risk calculated directly.

(Last changed in 2014)

**Outlook for 2015**

Basis: Assumed landings 2014 according to TACs = 25 000 t.

Catch option 2015 (in thousand tonnes)	0	5	10	15	20	25.18	30
Probability of falling below $B_{lim}$ *	0%	0%	0%	0%	0%	0%	1%
Probability of being below $B_{MSY}$ *	79%	80%	81%	82%	83%	85%	87%
Probability of exceeding $F_{MSY}$ *	-	1%	5%	15%	31%	50%	67%
Probability of exceeding $F_{lim}$ *	-	0%	2%	4%	9%	15%	28%
Stock size ( $B/B_{MSY}$ ), median	0.79	0.78	0.77	0.77	0.75	0.73	0.71
Fishing mortality ( $F/F_{MSY}$ )	0	0.18	0.37	0.57	0.77	1.00	1.24
Productivity (% of MSY)	96%	95%	95%	95%	94%	93%	92%

\*Probabilities are for the catch option year.

**MSY approach**

The stock is above MSY  $B_{trigger}$  ( $50\% B_{MSY}$ ). Following the ICES MSY framework implies that the advised fishing mortality should be  $F_{MSY}$ . This corresponds to maximum catches in 2015 of less than 25 180 t, which is expected to lead to a slight improvement in stock size in 2016. This advice requires a 10% reduction in F and is associated with less than 1% risk of biomass falling below  $B_{lim}$ .

**Additional considerations***Management considerations*

A common management plan is presently being developed by the coastal states. The management plan will include monitoring of the effort and stock development as well as a framework for adapting future fishing according to the response of the stock, aiming at a harvest control rule that is in accordance with MSY. Since Greenland halibut is a slow-growing species, it is expected that a change in stock dynamics may take several years and this will be taken into consideration in the management plan. The intention is to have the plan fully implemented in 2015; however, a stepwise reduction in catches was initially implemented in 2013.

The stock has sustained catches between 20 000 t and 30 000 t in the past decades. It should be taken into account that Greenland halibut is a slow-growing and long-lived species and rebuilding the stock is therefore only likely to be achieved within a long time frame.

Available biological information such as tagging and genetic studies and the distribution of the fisheries suggest that Greenland halibut in Subareas XIV and V belong to the same stock entity and that a common management is therefore required.

The nursery grounds are not known, which means there is no monitoring of recruits and juveniles. Because Greenland halibut is a slow-growing species that first appears in catches at ages 4–6, recruitment failure will only be detected in the fishery some five to ten years after it occurs. The management plan currently under development should consider these factors.

#### *Information from the fishing industry*

Information from the fisheries in East Greenland and the Faroe Islands, which is not contained in the assessment model, suggest either stable or increasing biomasses in the recent year and thus support the model estimates.

#### *Regulations and their effects*

A common management approach is being developed. In Greenland and Iceland, the fishery is currently regulated by TACs, and in the Faroe Islands by effort limitation (number of fishing licenses). This management practice has historically resulted in adoption of TACs by Greenland and Iceland that in total are set substantially higher than the TACs advised by ICES. In addition to this a number of fishery licenses at the Faroe Islands also contributed to landings. The objective of the management plan is to resolve these issues.

#### *Data and methods*

A benchmark was conducted for this stock in 2013 (ICES, 2013). The two surveys (Greenland and Icelandic) were combined to a single biomass index. Following the benchmark the cpue data from the Icelandic trawler fleet was revised to give a single cpue index. These two indices are in good agreement in the period when they overlap (1996–present). This information along with landings data back to the start of the fishery (1960) were used as input to the stock production model. Additional data were available (cpues from Greenland trawlers in Division XIVb and Faroese trawlers in Division Vb, and a Faroese survey in Division Vb), but these data showed trends that conflicted with the other indices and they could not be included in the model. All available indices are considered equally relevant as biomass indicators.

#### *Uncertainties in the assessment*

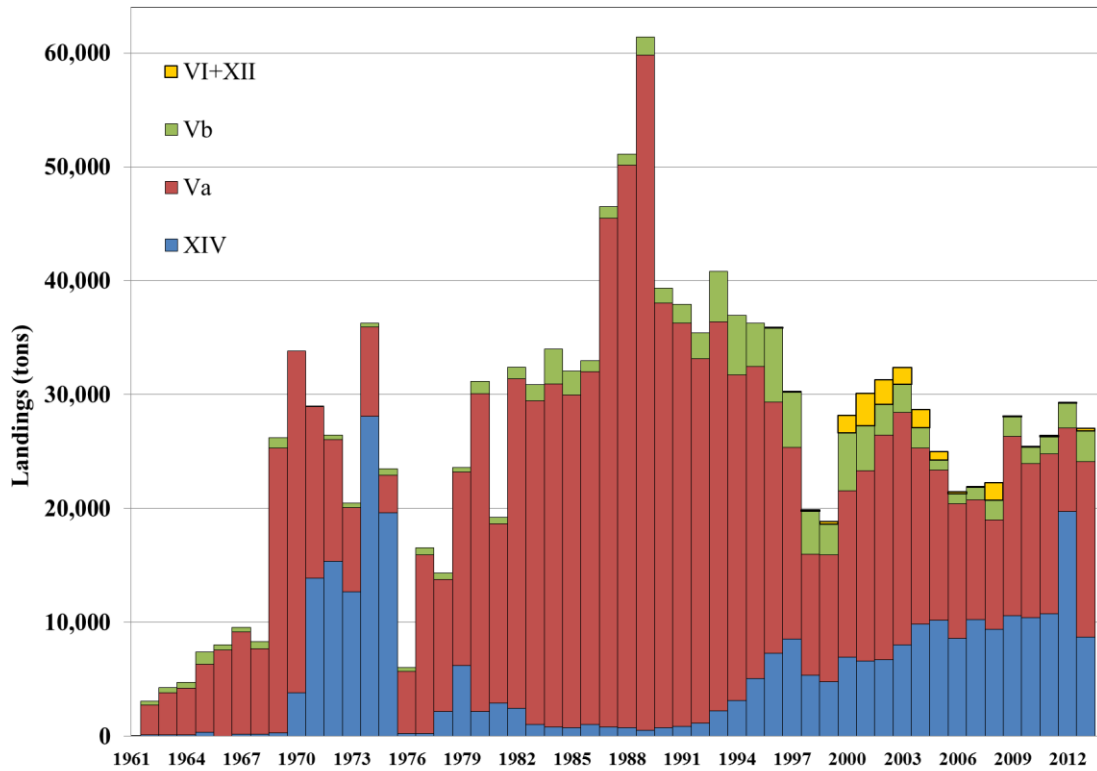
The assessment is based on a survey time-series available since 1996, and a longer-term commercial cpue series back to 1985. The assessment is uncertain (Figure 2.3.5.1). However, the historical part of the cpue series (1985–1995) is considered to be particularly uncertain. The survey time-series which is included in the assessment is considered adequate to monitor the stock, and in these years this series shows similar trends to the commercial cpue series. Consideration was given to providing advice based on the survey alone (DLS approach) or on a truncated assessment model that did not use the early part of the commercial cpue; however, it was concluded that these approaches were more unstable than the current methodology. Considerable uncertainty remains in the use of commercial cpue prior to 1995 and due to this it is recognized that the biomass and exploitation rates prior to 1995 are particularly unreliable. Further investigation is required to establish how best to evaluate the stock during this period. The current formulation of the assessment model gives rise to autocorrelated errors that might require further exploration.

#### *Comparison of the basis of previous assessment and advice*

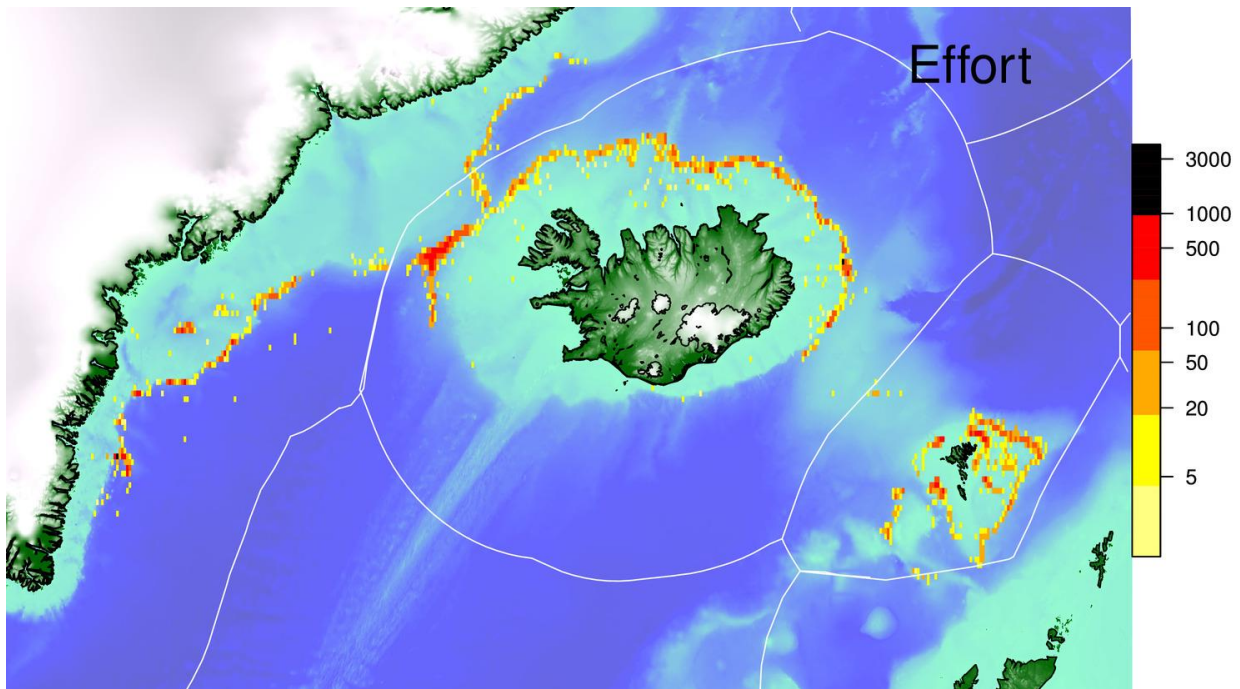
The basis for the assessment and the advice has not changed from last year.

#### **Sources**

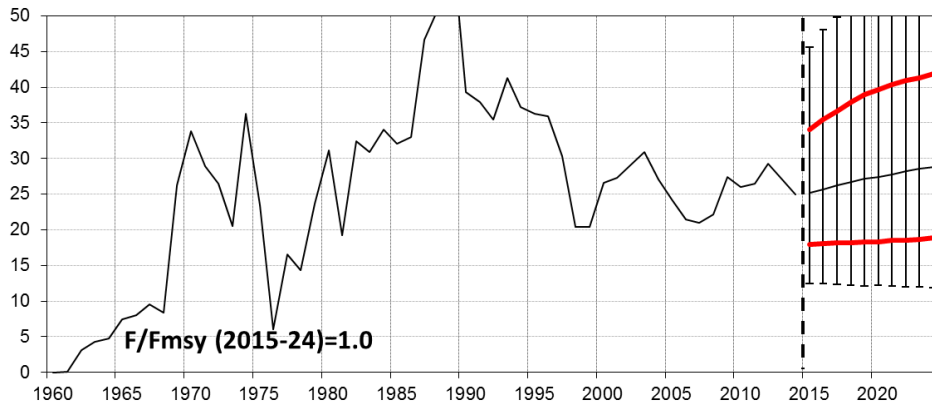
- ICES. 2007. Report of the North-Western Working Group (NWWG), 24 April–3 May 2007, ICES Headquarters, Copenhagen, Denmark. ICES CM 2007/ACFM:17. 604 pp.
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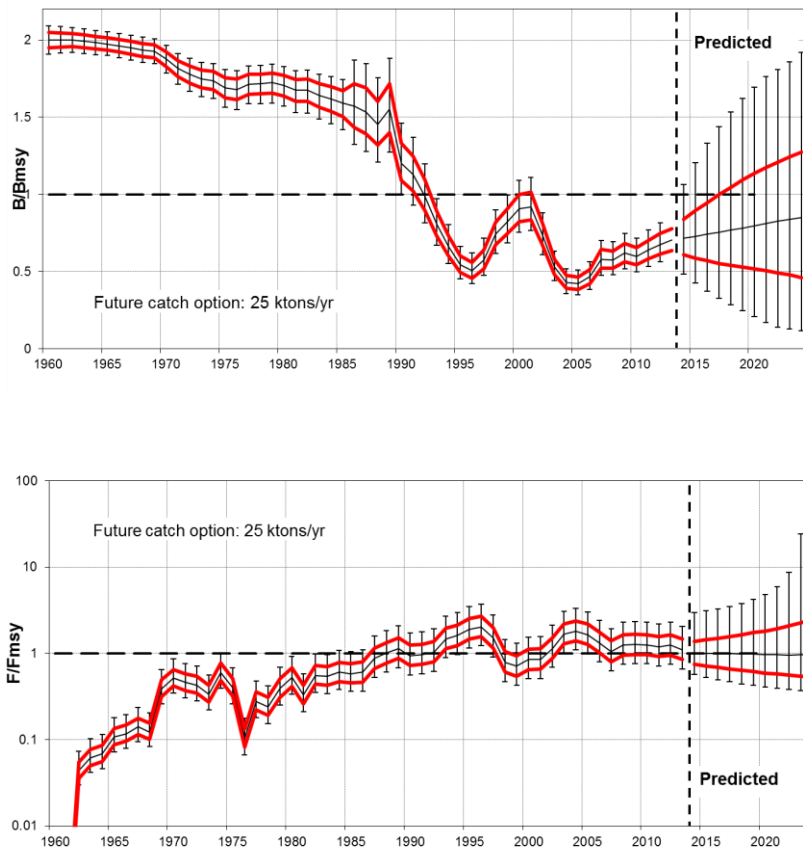
**Figure 2.3.5.2** Greenland halibut in Subareas V, VI, XII, and XIV. Landings by area. Catches in Subarea XIV within the Icelandic EEZ are reported to Division Vb, except for 2012 when catches were reported in Subarea XIV.



**Figure 2.3.5.3** Greenland halibut in Subareas V, VI, XII, and XIV. Distribution of total effort in the 2013 fishery.



**Figure 2.3.5.4** Historical landings (thousand tonnes) and projected landings 2014–2023, assuming  $F/F_{MSY}$  (2014–2023) = 1.0. The solid line is the median, red bold lines are quartiles, and bars indicate the 90% confidence limit.



**Figure 2.3.5.5** SSB (upper panel) and fishing mortality (lower panel), assuming future fixed catch option of 25 kt per year. The solid line is the median, red bold lines are quartiles, and bars indicate the 90% confidence limit.

Table 2.3.5.1

Greenland halibut in Subareas V, VI, XII, and XIV. ICES advice, management, and landings.

Year	ICES Advice	Predicted catch corresp. to advice	TAC for Icelandic EEZ	Greenland TAC	ICES landings Subareas V, VI, XII, and XIV
1987	No increase in F	28	30		47
1988	No increase in F	28	30		51
1989	TAC	33	30		61
1990	No advice	-	45		39
1991	TAC	40	30		38
1992	TAC	30	25		35
1993	No increase in effort	28 <sup>a</sup>	30 <sup>b</sup>		41
1994	No increase in effort	34 <sup>a</sup>	30 <sup>b</sup>		37
1995	TAC	32	30 <sup>b</sup>		36
1996	TAC	21	20 <sup>b</sup>		36
1997	60% reduction in F from 1995	13	15 <sup>b</sup>		30
1998	70% reduction in F from 1996	11	10 <sup>b</sup>	8.1	20
1999	65% reduction in F from 1997	11	10 <sup>b</sup>	8	21
2000	60% reduction in F from 1998	11	10 <sup>b</sup>	8	26
2001	catch less than 1998–1999 catch	< 20	20 <sup>b</sup>	14.5	28
2002	F reduced below $0.67 \times F_{MSY}$	< 21	20 <sup>b</sup>	14.5	29
2003	F reduced below $0.67 \times F_{MSY}$	< 23	23 <sup>b</sup>	14.5	30
2004	F reduced below $0.67 \times F_{MSY}$	< 20	23 <sup>b</sup>	14.1	28
2005	Effort reduced to 1/3 of the 2003 level	< 15	15	12	24
2006	Effort reduced to 1/3 of the 2003 level	< 15	15	10	21
2007	Adaptive management plan, start at 15 000 t	< 15	15	11.7	21
2008	Adaptive management plan, start at 15 000 t	< 15	15	11	24
2009	Adaptive management plan, reduce to 5000 t	< 5	15	10	28
2010	Adaptive management plan, reduce to 5000 t	< 5	12	12	26
2011	Adaptive management plan, reduce F substantially below $F_{MSY}$	< 5	13	12	26
2012	No directed fishery, multi-annual management plan to be developed and implemented	-	13	13	29
2013	F reduced to $F_{MSY}$	< 20	15	10	27
2014	F reduced to $F_{MSY}$	< 20	12.5	9.8	
2015	F reduced to $F_{MSY}$	< 25			

Weights in thousand tonnes.

<sup>a</sup> Catch at *status quo* F.<sup>b</sup> Year ending 31 August.

Table 2.3.5.2

Greenland halibut in Subareas V, VI, XII, and XIV. Nominal landings (tonnes) by country, as officially reported to ICES and estimated by the working group.

Country	1981	1982	1983	1985	1986	1987	1988	1989
Denmark	-	-	-	-	-	6	+	-
Faroe Islands	767	1,532	1,146	1,052	853	1,096	1,378	2,319
France	8	27	236	845	52	19	25	-
Germany	3,007	2,581	1,142	863	858	565	637	493
Greenland	+	1	5	81	177	154	37	11
Iceland	15,457	28,300	28,360	29,231	31,044	44,780	49,040	58,330
Norway	-	-	2	3	+	2	1	3
Russia	-	-	-	-	-	-	-	-
UK (Engl. and Wales)	-	-	-	-	-	-	-	-
UK (Scotland)	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
Total	19,239	32,441	30,891	32,075	32,984	46,622	51,118	61,156
Working Group estimate	-	-	-	-	-	-	-	61,396

Country	1990	1991	1992	1994	1995	1996	1997	1998
Denmark	-	-	-	-	-	1	-	-
Faroe Islands	1,803	1,566	2,128	6,241	3,763	6,148	4,971	3,817
France	-	-	3	-	-	29	11	8
Germany	336	303	382	648	811	3,368	3,342	3,056
Greenland	40	66	437	867	533	1,162	1,129	747
Iceland	36,557	34,883	31,955	27,778	27,383	22,055	18,569	10,728
Norway	50	34	221	1,173 <sup>1</sup>	1,810	2,164	1,939	1,367
Russia	-	-	5	-	10	424	37	52
Spain	-	-	-	-	-	-	-	89
UK (Engl. and Wales)	27	38	109	513	1,436	386	218	190
UK (Scotland)	-	-	19	84	232	25	26	43
United Kingdom	-	-	-	-	-	-	-	-
Total	38,813	36,890	35,259	37,305	36,006	35,762	30,242	20,360
Working Group estimate	39,326	37,950	35,423	36,958	36,300	35,825	30,309	20,382

Country	1999	2000	2001	2003 <sup>1</sup>	2004 <sup>1</sup>	2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>1</sup>
Denmark	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	5	3	-
Faroe Islands	3,884	-	121	458	338	1,150	855	1,141
France	-	2	32	177	157	-	62	17
Germany	3,082	3,265	2,800	2,948	5,169	5,150	4,299	4,930
Greenland	200	1,740	1,553	1,459	-	-	-	-
Iceland	11,180	14,537	16,590	20,366	15,478	13,023	11,798	-
Ireland	-	-	56	-	-	-	-	-
Lithuania	-	-	-	2	1	-	2	3
Norway	1,187	1,750	2,243	1,074	1,233	1,124	1,097	692
Poland	-	-	2	93	207	-	-	-
Portugal	-	-	6	-	-	-	1,094	-
Russia	138	183	187	-	262	-	552	501
Spain	-	779	1,698	3,075	4,721	506	33	-
UK (Engl. and Wales)	261	370	227	40	49	10	1	-
UK (Scotland)	69	121	130	367	367	391	1	-
United Kingdom	-	166	252	841	1,304	220	93	17
Total	20,001	22,913	25,897	30,900	29,286	21,579	19,890	7,301
Working Group estimate	20,371	26,644	27,291	30,891	27,102	24,978	21,466	21,873

Country	2008 <sup>1</sup>	2009 <sup>1</sup>	2010 <sup>1</sup>	2011 <sup>1</sup>	2012 <sup>1</sup>	2013 <sup>1</sup>
Denmark	-	-	-	-	-	-
Estonia	-	-	-	-	-	-
Faroe Islands	-	270	1,408	1,705	2,811	2,788
France	114	-	-	9	67	133
Germany	4,846	427	5,287	5,782	4,620	3,814
Greenland	-	2,819	-	3,415	5,239	3,251
Iceland	-	-	13,293	13,192	13,749	14,859
Ireland	-	-	-	-	-	-
Lithuania	566	-	-	-	97	-
Norway	639	124	233	176	856	614
Poland	1,354	988	960	-	786	-
Portugal	-	-	-	-	-	-
Russia	799	762	1,070	1,095	1,168	1,369
Spain	-	-	-	-	-	-
United Kingdom	422	581	577	323	12	95
Total	9,744	5,974	22,901	25,618	29,405	26,923
Working Group estimate	24,481	28,197	25,995	26,347	-	-

1) Provisional data



**Table 2.3.5.3** Greenland halibut in **Division Va**. Nominal landings (tonnes) by country, as officially reported to ICES and estimated by the working group.

Country	1981	1982	1983	1984	1985	1986	1987	1988	1989
Faroe Islands	325	669	33	46			15	379	719
Germany									
Greenland									
Iceland	15,455	28,300	28,359	30,078	29,195	31,027	44,644	49,000	58,330
Norway			+	+	2				
<b>Total</b>	<b>15,780</b>	<b>28,969</b>	<b>28,392</b>	<b>30,124</b>	<b>29,197</b>	<b>31,027</b>	<b>44,659</b>	<b>49,379</b>	<b>59,049</b>
Working Group estimate									59,272 <sup>2</sup>

Country	1990	1991	1992	1993	1994	1995	1996	1997	1998
Faroe Islands	739	273	23	166	910	13	14	26	6
Germany					1	2	4		9
Greenland					1				
Iceland	36,557	34,883	31,955	33,968	27,696	27,376	22,055	16,766	10,580
Norway									
<b>Total</b>	<b>37,296</b>	<b>35,156</b>	<b>31,978</b>	<b>34,134</b>	<b>28,608</b>	<b>27,391</b>	<b>22,073</b>	<b>16,792</b>	<b>10,595</b>
Working Group estimate	37,308 <sup>2</sup>	35,413 <sup>2</sup>							

Country	1999	2000	2001	2002	2003 <sup>1</sup>	2004 <sup>1</sup>	2005 <sup>1</sup>	2006 <sup>1</sup>	2,007 <sup>1</sup>
Faroe Islands	9		15	7	34	29	77	16	25
Germany	13	22	50	31	23	10	6	1	228
Greenland									
Iceland	11,087	14,507	2,310 <sup>4</sup>	2,277 <sup>4</sup>	20,360	15,478	13,023	11,798	
Norway							100		691
Russia									
UK (E/W/I)	26	73	50	21	16	8	8	1	
UK Scotland	3	5	12	16	5	2	27	1	
UK									1
<b>Total</b>	<b>11,138</b>	<b>14,607</b>	<b>2,437</b>	<b>2,352</b>	<b>20,438</b>	<b>15,527</b>	<b>13,241</b>	<b>11,817</b>	<b>945</b>
Working Group estimate		14,607	16,752	19,714	20,415	15,477	13,172	11,817	10,525

Country	2008 <sup>1</sup>	2009 <sup>1</sup>	2010 <sup>1</sup>	2011 <sup>1</sup>	2012 <sup>1</sup>	2013 <sup>1</sup>
Faroe Islands			37	123	585	103
Germany	4	423	797	576	269	386
Greenland				157		92
Iceland			13,293	13,192	6,459	14,859
Norway						
Russia	4					
Poland		270				
UK	179					
<b>Total</b>	<b>187</b>	<b>693</b>	<b>14,128</b>	<b>14,048</b>	<b>7,313</b>	<b>15,440</b>
Working Group estimate	11,859	15,782	14,128	14,048	7,313	15,440

1) Provisional data

2) Includes 223 t catch by Norway.

**Table 2.3.5.4** Greenland halibut in **Division Vb**. Nominal landings (tonnes) by country, as officially reported to ICES and estimated by the working group.

Country	1981	1982	1983	1984	1985	1986	1987	1988	1989
Denmark	-	-	-	-	-	-	6	+	-
Faroe Islands	442	863	1,112	2,456	1,052	775	907	901	1,513
France	8	27	236	489	845	52	19	25	...
Germany	114	142	86	118	227	113	109	42	73
Greenland	-	-	-	-	-	-	-	-	-
Norway	2	+	2	2	2	+	2	1	3
UK (Engl. and Wales)	-	-	-	-	-	-	-	-	-
UK (Scotland)	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>566</b>	<b>1,032</b>	<b>1,436</b>	<b>3,065</b>	<b>2,126</b>	<b>940</b>	<b>1,043</b>	<b>969</b>	<b>1,589</b>
Working Group estimate	-	-	-	-	-	-	-	-	1,606 <sup>2</sup>

Country	1990	1991	1992	1993	1994	1995	1996	1997	1998
Denmark	-	-	-	-	-	-	-	-	-
Faroe Islands	1,064	1,293	2,105	4,058	5,163	3,603	6,004	4,750	3,660
France	...	...	3 <sup>1</sup>	2	1	28	29	11	8 <sup>1</sup>
Germany	43	24	71	24	8	1	21	41	
Greenland	-	-	-	-	-	-	-	-	-
Norway	42	16	25	335	53	142	281	42 <sup>1</sup>	114 <sup>1</sup>
UK (Engl. and Wales)	-	-	1	15	-	31	122		
UK (Scotland)	-	-	1	-	-	27	12	26	43
United Kingdom	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1,149</b>	<b>1,333</b>	<b>2,206</b>	<b>4,434</b>	<b>5,225</b>	<b>3,832</b>	<b>6,469</b>	<b>4,870</b>	<b>3,825</b>
Working Group estimate	1,282 <sup>2</sup>	1,662 <sup>2</sup>	2,269 <sup>2</sup>	-	-	-	-	-	-

Country	1999	2000 <sup>1</sup>	2001 <sup>1</sup>	2002 <sup>1</sup>	2003 <sup>1</sup>	2004 <sup>1</sup>	2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>1</sup>
Denmark									
Faroe Islands	3873		106	13	58	35	887	817	1,116
France		1	32	4	8	17		40	9
Germany	22								
Iceland									
Ireland									
Norway	87	1	2	1	1		1		1
UK (Engl. and Wales)	9	35	77	50	24	41	2		
UK (Scotland)	66	116	118	141	174	87	204		
United Kingdom								19	1
<b>Total</b>	<b>4057</b>	<b>153</b>	<b>335</b>	<b>209</b>	<b>265</b>	<b>180</b>	<b>1,094</b>	<b>876</b>	<b>1,127</b>
Working Group estimate	2694 <sup>2</sup>	5079	3,951	2,694	2,459	1,771	892	873	1,060

Country	2008	2009	2010	2011	2012	2013
Denmark						
Faroe Islands			1,037	1,476	2,149	2,560
France	36		35	1	13	20
Germany						
Iceland						
Ireland						
Norway	1	1	5			
UK (Engl. and Wales)						
UK (Scotland)						
United Kingdom	32	117	336	11		2
<b>Total</b>	<b>69</b>	<b>118</b>	<b>1,413</b>	<b>1,489</b>	<b>2,162</b>	<b>2,582</b>
Working Group estimate	1,759	1,739	1,413	1,489	2,162	2,582

1) Provisional data

2) WG estimate includes additional catches as described in Working Group reports for each year and in the report from 2001.

**Table 2.3.5.5** Greenland halibut in **Subarea XIV**. Nominal landings (tonnes) by country, as officially reported to ICES and estimated by the working group.

Country	1981	1982	1983	1984	1985	1986	1987	1988	1989
Faroe Islands	-	-	-	-	-	78	74	98	87
Germany	2,893	2,439	1,054	818	636	745	456	595	420
Greenland	+	1	5	15	81	177	154	37	11
Iceland	-	-	1	2	36	17	136	40	+
Norway	-	-	-	+	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	+
UK (Engl. and Wales)	-	-	-	-	-	-	-	-	-
UK (Scotland)	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,893</b>	<b>2,440</b>	<b>1,060</b>	<b>835</b>	<b>753</b>	<b>1,017</b>	<b>820</b>	<b>770</b>	<b>518</b>
Working Group estimate	-	-	-	-	-	-	-	-	-

Country	1990	1991	1992	1993	1994	1995	1996	1997	1998
Denmark	-	-	-	-	-	-	1	+	+
Faroe Islands	-	-	-	181	168	147	130	148	151
Germany	293	279	311	391	639	808	3,343	3,301	3,399
Greenland	40	66	437	288	866	533	1,162	1,129	747 <sup>1,7</sup>
Iceland	-	-	-	19	82	7	-	1,803	148
Norway	8	18	196	511	1,120	1,668	1,881 <sup>*</sup>	1,897 <sup>1</sup>	1,253 <sup>1</sup>
Russia	-	-	5	-	-	10	424	37	52
UK (Engl. and Wales)	27	38	108	796	513	1405	264	218	190
UK (Scotland)	-	-	18	26	84	205	13	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>368</b>	<b>401</b>	<b>1,075</b>	<b>2,212</b>	<b>3,472</b>	<b>4,783</b>	<b>7,218</b>	<b>8,533</b>	<b>5,940</b>
Working Group estimate	736 <sup>2</sup>	875 <sup>3</sup>	1,176 <sup>4</sup>	2,249 <sup>5</sup>	3,125 <sup>6</sup>	5,077 <sup>7</sup>	7,283	8,558	-

Country	1999	2000	2001 <sup>1</sup>	2002 <sup>1</sup>	2003 <sup>1</sup>	2004 <sup>1</sup>	2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>1</sup>
Denmark	-	-	-	-	-	-	-	-	-
Faroe Islands	2	-	-	274	366	274	186	22	-
Germany	3,047	3,243	2,750	2,019	2,925	5,159	5,144	4,298	4,702
Greenland	200 <sup>1,4</sup>	1,740	1,553	1,887	1,459	-	-	-	-
Iceland	93	30	14,280	16,947	6	-	-	-	-
Ireland	-	-	7	-	-	-	-	-	-
Norway	1,100	1,161	1,424	1,660	846	1,114	1,023	1,094	-
Poland	-	-	-	-	-	205	-	-	-
Portugal	-	-	6	130	-	-	-	1,094	-
Russia	138	183	186	44	-	261	-	505	500
Spain	-	8	10	-	2,131	3,406	2	-	-
UK (Engl. and Wales)	226	262	100	-	-	-	-	-	-
UK (Scotland)	-	-	-	24	188	278	160	-	-
United Kingdom	-	-	-	178	799	1,294	-	-	-
<b>Total</b>	<b>4,806</b>	<b>6,627</b>	<b>20,316</b>	<b>22,889</b>	<b>8,720</b>	<b>11,991</b>	<b>6,515</b>	<b>7,013</b>	<b>5,202</b>
Working Group estimate	5376	6958	6,588 <sup>6</sup>	6,750 <sup>6</sup>	8,017	9,854	10,185	8,589	10,261

Country	2008 <sup>1</sup>	2009 <sup>1</sup>	2010 <sup>1</sup>	2011 <sup>1</sup>	2012 <sup>1</sup>	2013 <sup>1</sup>
Denmark	-	-	-	-	-	-
Faroe Islands	-	270	333	-	77	125
Germany	4,842	4	4,490	5,206	4,351	3,428
Greenland	-	2,819	-	3,258	5,239	3,159
Iceland	-	-	-	-	7,290	-
Ireland	-	-	-	-	-	-
Norway	637	29	226	164	853	613
Poland	1,354	718	960	-	786	-
Portugal	-	-	-	-	-	-
Russia	763	-	1,070	1,095	1,168	1,369
Spain	-	-	-	-	-	-
United Kingdom	131	452	229	309	1	1
<b>Total</b>	<b>7,727</b>	<b>4,292</b>	<b>7,308</b>	<b>10,032</b>	<b>19,765</b>	<b>8,694</b>
Working Group estimate	9,102	9,805	10,402	10,761	-	-

1) Provisional data

2)WG estimate includes additional catches as described in working Group reports for each year and in the report from 2001.

3) Includes 125 t by Faroe Islands and 206 t by Greenland.

4) Excluding 4732 t reported as area unknown.

5) Includes 1523 t by Norway, 102 t by Faroe Islands, 3343 t by Germany, 1910 t by Greenland, 180 t by Russia, as reported to Greenland authorities.

6) Does not include most of the Icelandic catch as those are included in WG estimate of Va.

7) Excluding 138 t reported as area unknown.

**Table 2.3.5.6** Greenland halibut in **Subarea XII**. Nominal landings (tonnes) by country, as officially reported to ICES and estimated by the working group.

Country	1996	1997	1998	1999	2000	2001	2002	2003 <sup>1</sup>	2004 <sup>1</sup>
Faroe Islands		47					40		
France					1			4	30
Ireland						49			
Lithuania								2	1
Poland						2		2	1
Spain <sup>2</sup>	2	42	67	137	751	1338	28	730	1145
UK					7	5			
Russia									
Norway	2				553	500	316	201	119
Estonia									
Total	4	89	67	137	1,312	1,894	384	939	1,296
WGestimate									

Country	2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>1</sup>	2008 <sup>1</sup>	2009 <sup>1</sup>	2010 <sup>1</sup>	2011 <sup>1</sup>	2012 <sup>1</sup>	2013 <sup>1</sup>
Faroe Islands							106		
France									
Ireland									
Lithuania		2	3	566				97	
Poland									
Spain <sup>2</sup>	501								
UK	3								
Russia		46	1		762				
Norway					94				
Estonia		2							
Total	504	50	4	566	856	0	106	97	0
WGestimate	504	50	4	566	856	0	106	97	0

<sup>1</sup> Provisional data

<sup>2</sup> Based on estimates by observers onboard vessels

**Table 2.3.5.7** Greenland halibut in **Subarea VI**. Nominal landings (tonnes) by country, as officially reported to ICES and estimated by the working group.

Country	1996	1997	1998	1999	2000	2001	2002	2003 <sup>1</sup>	2004 <sup>1</sup>
Estonia							8		
Faroe Islands									
France							286	165	110
Poland							16	91	1
Spain <sup>2</sup>			22	88	20	350	1367	214	170
UK					159	247	77	42	10
Russia						1			1
Norway					35	317	21	26	
<b>Total</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>88</b>	<b>214</b>	<b>915</b>	<b>1775</b>	<b>538</b>	<b>292</b>
<b>WGestimate</b>									
Country	2005 <sup>1</sup>	2006 <sup>1</sup>	2007 <sup>1</sup>	2008 <sup>1</sup>	2009 <sup>1</sup>	2010 <sup>1</sup>	2011 <sup>1</sup>	2012 <sup>1</sup>	2013 <sup>1</sup>
Estonia	5	1							
Faroe Islands						1			0
France		22	8	114		38	8	54	113
Poland									
Spain <sup>2</sup>	3	33							
UK	217	74	15	80	12	11	3	11	93
Russia		1		32					
Norway		3		1	3	2	7	3	1
Lithuania				968				2	
<b>Total</b>	<b>225</b>	<b>134</b>	<b>23</b>	<b>1195</b>	<b>15</b>	<b>52</b>	<b>18</b>	<b>70</b>	<b>207</b>
<b>WGestimate</b>	<b>225</b>	<b>134</b>	<b>23</b>	<b>1195</b>	<b>15</b>	<b>52</b>	<b>18</b>	<b>70</b>	<b>207</b>

<sup>1</sup> Provisional data

<sup>2</sup> Based on estimates by observers onboard vessels