

## 6.4.6 Plaice in Division IIIa (Skagerrak – Kattegat)

### Single-stock exploitation boundaries

As in 2008, the new analysis available for this stock has not given a reason to change the advice from 2007. The advice on this stock for the fishery in 2010 is therefore the same as the advice given over the last 2 years: “Landings should not exceed the level recorded in 2006 of 9400 t.”

In addition, ICES offers the following consideration:

In 2007, ICES identified key issues that would need to be resolved before reaching further improvements in the assessment. The various surveys give a reasonably consistent result for the eastern part of the area. The status of the western part is more uncertain, due to potential mixing with North Sea plaice and limited survey coverage. The landings-at-age matrix does not show proper tracking of the cohorts, probably due to i) mixing of the IIIa stock with the North Sea plaice stock on the main fishing ground in southwestern Skagerrak, and ii) uncertainty in ageing due to low sampling levels.

In 2009, ICES still considered these issues as outstanding, although uncertainty due to age reading is likely to have decreased in the recent years.

This advice will be updated in 2011.

### Source of information

Report of the Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak, 6-12 May 2009 (ICES CM 2009/ACFM:10).

Year	ICES Advice	Single-stock Exploitation Boundaries	Predicted catch corresp. to advice	Agreed TAC Kattegat	Agreed TAC Skagerrak	ICES Landings
1992	TAC		14.0	2.8	11.2	11.9
1993	Precautionary TAC		-	2.8	11.2	11.3
1994	If required, precautionary TAC		-	2.8	11.2	11.3
1995	If required, precautionary TAC		-	2.8	11.2	10.8
1996	If required, precautionary TAC		-	2.8	11.2	10.5
1997	No advice		-	2.8	11.2	10.1
1998	No increase in F from the present		11.9	2.8	11.2	8.4
1999	No increase in F from the present		11.0	2.8	11.2	8.5
2000	$F < F_{pa}$		11.8	2.8	11.2	8.8
2001	$F < F_{pa}$		9.4	2.35	9.4	11.7
2002	$F < F_{pa}$		8.5 <sup>1</sup>	1.6 <sup>2</sup>	6.4 <sup>2</sup>	8.7
2003	$F < F_{pa}$		18.4	3.0	10.4	8.9
2004	<sup>3</sup>	$F < F_{pa}$	<sup>3</sup>	1.8	9.5	9.1
2005		$F < F_{pa}$	< 9.5	1.9	7.6	6.9
2006		No increase in F	< 9.6	1.92	7.68	9.4
2007		Maintain current TAC	< 9.6	2.125	8.5	8.8
2008		No increase in catch	< 9.4	2.338	9.350	8.6
2009	Same advice as last year	No increase in catch	< 9.4	2.338	9.350	
2010	Same advice as last year	No increase in catch	< 9.4			

Weights in '000 t.

<sup>1</sup>) In March 2002 ACFM revised its advice to 11.6 for both areas combined.

<sup>2</sup>) The TAC for the two areas combined was adjusted to 11 200 tonnes in mid-2002.

<sup>3</sup>) Single-stock boundary and the exploitation of this stock should be conducted in the context of mixed fisheries.

**Table 6.4.6.1** Plaice in Kattegat. Landings in tonnes. Working Group estimates, 1972–2008.

Year	Denmark	Sweden	Germany	Belgium	Norway	Total
1972	15,504	348	77			15,929
1973	10,021	231	48			10,300
1974	11,401	255	52			11,708
1975	10,158	296	39			10,493
1976	9,487	177	32			9,696
1977	11,611	300	32			11,943
1978	12,685	312	100			13,097
1979	9,721	333	38			10,092
1980	5,582	313	40			5,935
1981	3,803	256	42			4,101
1982	2,717	238	19			2,974
1983	3,280	334	36			3,650
1984	3,252	388	31			3,671
1985	2,979	403	4			3,386
1986	2,470	202	2			2,674
1987	2,846	307	3			3,156
1988	1,820	210	0			2,030
1989	1,609	135	0			1,744
1990	1,830	202	2			2,034
1991	1,737	265	19			2,021
1992	2,068	208	101			2,377
1993	1,294	175	0			1,469
1994	1,547	227	0			1,774
1995	1,254	133	0			1,387
1996	2,337	205	0			2,542
1997	2,198	255	25			2,478
1998	1,786	185	10			1,981
1999	1,510	161	20			1,691
2000	1,644	184	10			1,838
2001	2,069	260				2,329
2002	1,806	198	26			2,030
2003	2,037	253	6			2,296
2004	1,395	137	77			1,609
2005	1,104	100	47			1,251
2006	1,355	175	20			1,550
2007	1,198	172	10			1,380
2008	866	137	6			1,008

\* years 1972-1990 landings refers to IIIA

**Table 6.4.6.2** Plaice in Skagerrak. Landings in tonnes. Working Group estimates, 1972–2008.

Year	Denmark	Sweden	Germany	Belgium	Norway	Netherlands	Total
1972	5,095	70			3		5,168
1973	3,871	80			6		3,957
1974	3,429	70			5		3,504
1975	4,888	77			6		4,971
1976	9,251	51		717	6		10,025
1977	12,855	142		846	6		13,849
1978	13,383	94		371	9		13,857
1979	11,045	67		763	9		11,884
1980	9,514	71		914	11		10,510
1981	8,115	110		263	13		8,501
1982	7,789	146		127	11		8,073
1983	6,828	155		133	14		7,130
1984	7,560	311		27	22		7,920
1985	9,646	296		136	18		10,096
1986	10,645	202		505	26		11,378
1987	11,327	241		907	27		12,502
1988	9,782	281		716	41		10,820
1989	5,414	320		230	33		5,997
1990	8,729	779		471	69		10,048
1991	5,809	472	15	315	68		6,679
1992	8,514	381	16	537	106		9,554
1993	9,125	287	37	326	79		9,854
1994	8,783	315	37	325	91		9,551
1995	8,468	337	48	302	224		9,379
1996	7,304	260	11		428		8,003
1997	7,306	244	14		249		7,813
1998	6,132	208	11		98		6,449
1999	6,473	233	7		336		7,049
2000	6,680	230	5		67		6,982
2001	9,045	125			61		9,231
2002	6,470	140	3		58		6,671
2003	4,847	143	8		74	1,584	6,656
2004	5,717	179			106	1,511	7,513
2005	4,515	144			116	915	5,690
2006	6,334	175	14		142	1,190	7,855
2007	5,467	159	21		100	1,659	7,406
2008	6,901	219	5		79	403	7,607