

6.4.26 *Pandalus* on Fladen Ground (Division IVa)

State of the stock

The shrimp stock on Fladen Ground has not been assessed since 1992, due to insufficient data. Landings have declined gradually from 1999 to 2003, but in 2004 and 2005 nearly no catches were recorded.

Management objectives

There are no explicit management objectives for this stock.

Reference points

No reference points have been defined.

Short-term considerations

In the absence of information on stock development, ICES recommends that effort should not be allowed to expand to levels above the average for the years prior to the present absence of fishing activities and that the fishery must be accompanied by mandatory programmes to collect catch and effort data on both target and bycatch fish.

Management considerations

The development in the landings could indicate a low stock level. For the Fladen Ground stock such events have occurred previously, notably in 1987–1988. However, a recovery of the stock after that decline was observed already in 1989–1990 without any management actions.

The decline in landings could also be caused by the low price for shrimp combined with the high fuel costs.

Catches from Fladen Ground consist mainly of two age groups. During the first two quarters of the year age groups 2 and 3 normally dominate the catches. In the fourth quarter, age group 3 usually disappears from the catches, while age group 1 enters the catches.

Scientific basis

Only landings data are available for this stock.

ICES maintains the view that shrimp caught on the Fladen Ground constitute a stock separate from the *Pandalus* in the Norwegian Deeps and Skagerrak. This assumption is under review and there are indications that the Fladen Ground shrimp and the shrimp in the Norwegian Deep are correlated.

Source of information

Report of the NAFO/ICES *Pandalus* Assessment Group, Copenhagen, 25 October–2 November 2006 (ICES CM 2007/ACFM:37).

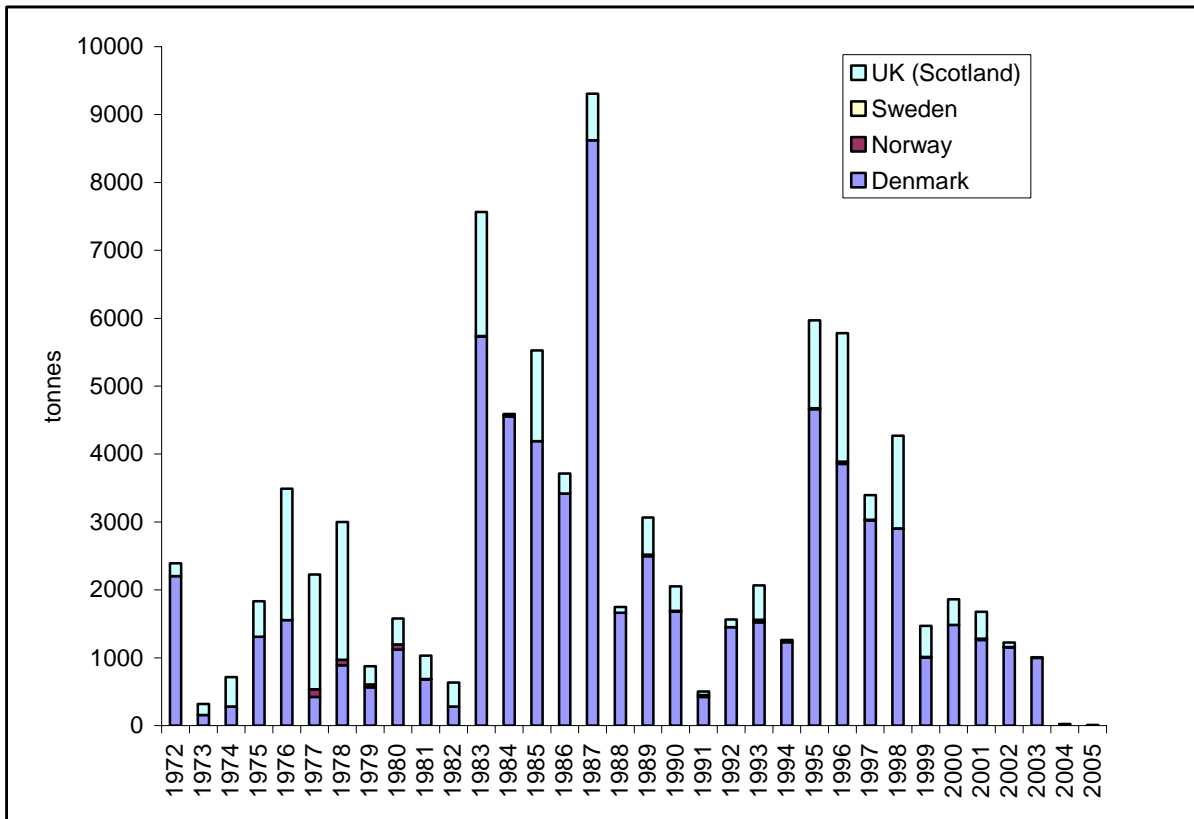


Figure 6.4.26.1 *Pandalus* on Fladen Ground (Division IVa). Total landings as estimated by ICES.

Table 6.4.26.1 *Pandalus* on Fladen Ground (Division IVa). Total landings as estimated by ICES.

Year	Denmark	Norway	Sweden	UK (Scotland)	Total
1972	2204			187	2391
1973	157			163	320
1974	282			434	716
1975	1308			525	1833
1976	1552			1937	3489
1977	425	112		1692	2229
1978	890	81		2027	2998
1979	565	44		268	877
1980	1122	76		377	1575
1981	685	1		347	1033
1982	283			352	635
1983	5729	8		1827	7564
1984	4553	13		25	4591
1985	4188			1341	5529
1986	3416			301	3717
1987	8620			686	9306
1988	1662	2		84	1748
1989	2495	25		547	3067
1990	1681	3	4	365	2053
1991	422	31		53	506
1992	1448			116	1564
1993	1521	38		509	2068
1994	1229	0		35	1264
1995	4659	15		1298	5972
1996	3858	32		1893	5783
1997	3022	9		365	3396
1998	2900	3		1365	4268
1999	1005	9		456	1470
2000	1482			378	1860
2001	1263	18		397	1678
2002	1147	9		70	1226
2003	999	8	1		1008
2004	23	0	0	0	23
2005	10	0	0	0	10