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Catch Table Update for the West Greenland Shrimp Fishery

by

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Introduction

A catch table was presented to the 2007 meeting of NIPAG, to summarise various recent catch estimates and TAC values for the shrimp fisheries on the West Greenland shelf (SCR Doc 07/66). An updated version is given here.

STATLANT 21A catch data has improved in recent years and is now more nearly consistent with logbook data. In this year's version of the catch table we have used species 632 Northern Prawn only instead of including species 639 unspecified pink shrimps. This is because the United Kingdom has reported catching 746 t of pandalid shrimps in Divisions 1A–1C in 2010, and we don't believe them.

In earlier years the provisional catch in Canadian SFA 1 had been estimated as the mean of the previous 5 years' catches. However, the fishery has fluctuated in recent years: there was no fishery in 2008 and reported catches for 2009 were insignificant; in 2010 the fishery returned to more usual levels and a provisional catch estimate of 4500 t furnished by industry observers was in the event exceeded by about 1000 t. Therefore, instead of using an average of earlier catches, a provisional catch for 2011 has been used.

In Greenland Subarea 1 the provisional catch for each year has been projected from the first 6 months' logbook catches and the average proportion caught in the first 6 months of the previous 5 years. In recent years the fishing pattern has altered, with more intense fishing in the second half of the year. This has caused our projections to be lower than the actual catches; in both 2008 and 2009 the current year's catch was underestimated by more than 20 000 t. For 2010 and 2011 a projected catch in Greenland Subarea 1 has been provided by the Greenland Fishery and Licence Kontrol (GFLK) based on cumulative catches from logbooks for the Greenlandic fleet for the current year compared with past years (Fig. 1), plus the EU quota which is 4000 t.

Cumulative transactions over the year to day 200 show 2011 to be falling behind the catches of 2010 and 2009 (Fig. 1)

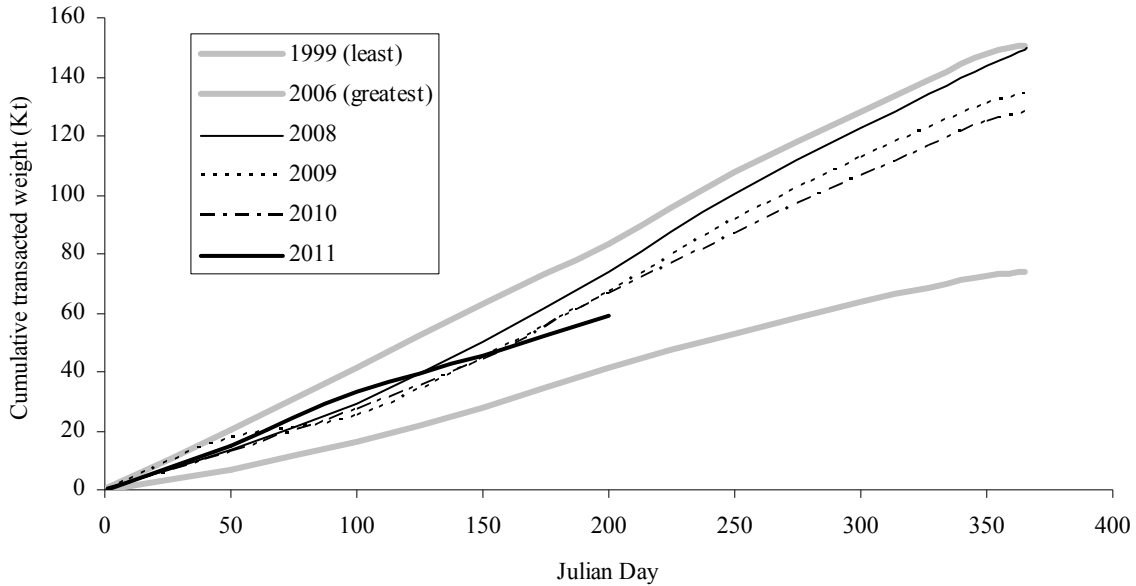


Fig. 1. Northern Shrimp in West Greenland: cumulative transactions over the year, 1999–2011. (With thanks to Mads Rossing Lund of GFLK.)

Acknowledgements

We thank Mads Rossing Lund of the Greenland Fishery and Licence Control (GFLK) for providing the data and figure on cumulative catches for the Greenlandic fleet and Tim Siferd from the Canadian Department of Fisheries and Oceans (DFO) for providing the information on the catches in 2010 for the Canadian fleet.

References

- HVINGEL, C. 2003. Correction of reported past catches of Northern shrimp within the Greenland EEZ to conform to a revision of reporting practices. NAFO SCR Doc. 03/74 Ser. No. N4913. 3 pp.
- HVINGEL, C. 2004. The fishery for Northern Shrimp (*Pandalus borealis*) off West Greenland, 1970–2004. NAFO SCR Doc. 04/75, Ser. No. 4914. 24 pp.
- KINGSLEY, M.C.S 2007. Catches of Northern Shrimp (*Pandalus borealis*) off West Greenland, 1999–2006. NAFO SCR Doc. 07/66, Ser. No. 5451. 4 pp.

Table 1: Annual catch and TAC data (mt) for the fishery for Northern Shrimp on the West Greenland shelf.

Source (date last fetched)	2003	2004	2005	2006	2007	2008	2009	2010	2011
GFLK [†] year (11-08-30) (SA 1)	94 961	119 942	129 647	127 327	123 126	132 213	120 024	114 314	—
GFLK [†] week 52	92 864	121 429	131 630	—	—	—	—	117 255	—
Overpacking correction (%) (SCR 03/74)	21.862	0	0	0	0	0	0	0	0
STATLANT [#] (SA1) (11-08-27)	78 436	142 311	149 978	153 188	142 245	148 550	133 561	123 228	—
STATLANT [#] (SA1) (corrected)	95 580	142 311	149 978	153 188	142 245	148 550	133 561	123 228	—
Logbooks, SA 1 (11-08-20) [‡]	100 963	135 212	147 687	150 533	139 657	153 889	135 029	128 104	—
Logbooks, corrected	123 036	135 212	147 687	150 533	139 657	153 889	135 029	128 104	53 806 ^α
SCR 04/75, SA 1 (corrected)	123 845 ^l	—	—	—	—	—	—	—	—
STATLANT [#] (0A) (11-08-27)	2170	6861	6410	3788	1878	0	429	5206	—
DFO Commercial statistics SFA1 [§] (11-08-27)	7137	7021	6921	4127	1945	0	220	5882	2000 ^p
DFO, Observer logbooks [□]	6608	7209	6088	3589	2024	0	167	5326	—
Total Catch for 2011 Assessment	130 173 ^l	149 347 ^s	156 899 ^s	157 315 ^s	144 190 ^s	153 889 ^l	135 458 ^l	133 986 ^l	126 000 ^p
Total Catch for 2010 Assessment	130 173 ^l	149 347 ^s	156 899 ^s	157 315 ^s	144 190 ^s	152 749 ^l	134 890 ^l	138 500 ^p	—
Total Catch for 2009 Assessment	130 173 ^l	149 347 ^s	156 899 ^s	157 315 ^s	144 190 ^s	152 749 ^l	108 812 ^p	—	—
Total Catch for 2008 Assessment	130 173 ^l	149 347 ^s	156 899 ^s	154 660 ^l	141 576 ^l	131 651 ^p	—	—	—
TACs									
Greenland SA1 offshore	57 000	75 452	74 100	74 100	74 100	70 281	59 025	60 525	68 400
Greenland SA1 inshore	43 000	55 900	55 900	55 900	55 900	53 019	51 545	50 045	51 600
Greenland SA1 EU	1000	4000	4000	4000	4000	4000	4000	4000	4000
Total Greenland SA1	101 000	135 352	134 000	134 000	134 000	127 300	114 570	114 570	124 000
Canada SFA1	14 167	14 167	18 453 [*]	18 380	18 417	18 417	18 417	18 417	18 597
Advised by SC	100 000	130 000	130 000	130 000	130 000	110 000	110 000	110 000	120 000

[†] quota drawdowns recorded in the GFLK data base; year's total fetched in September 2011 as well as contemporary report from week 52 of the year.

[#] species 632 (Northern Prawn). [‡] since 2004 legally required to be 'live weight' and includes discards; the data fetched in September 2011 was used to update existing files held by Grønlands Naturinstitut. ^α the catch given is for the first 6 months of 2011. [§] Canadian Shrimp Fishing Area 1 is NAFO Sub-area 0 east of longitude 60°30'W; [□] provided for 1999–2005 through David Orr in St John's, for 2006–11 through Tim Siferd in Winnipeg. ^l logbooks, ^s STATLANT + DFO Commercial Statistics, ^p provisional