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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 summarize 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.

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 (Table 1): Since 2009, instead of using an average of earlier catches, a provisional catch furnished by industry observers for the present year has been used.

Since 2010 a projected catch in Greenland Subarea 1 has been provided by the Greenland Fishery and License Kontrol (GFLK) based on cumulative catches from logbooks for the Greenlandic and EU fleets for the current year compared with past years (Fig. 1).

The stock extends into the EEZs of both Greenland and Canada. There is no agreement on sharing the stock. In order to improve its management of its own fishery, Greenland has instituted a procedure for taking account of Canadian interests when setting quotas. After deciding on a TAC for the stock, Greenland reserves a portion of it for Canada before allocating quotas to fleets fishing in Greenland waters. The fraction set aside for Canada is based on a weighting of the Canadian portions of the standard survey area, recent survey estimates of biomass, and recent catches. Quota allocation within Greenland waters has also been changed in 2012 such that an agreed EU quota is deducted before allocating quotas to the Greenland offshore and coastal fleets (Table 1).

Quota drawdowns have, until 1st of January 2011, been based not on live-caught weight, but on traded weight, less than the logbook recorded catch by an allowance for crushed and broken shrimps (G.H. 2010).

A licence holder who fishes out his quota may apply to start fishing the following year's quota from the 15th of November and licence holders with quotas unfished at the end of the year may apply to fish them until the 30th of April in the following year (G.H. 2012). These concessions have in earlier years led to accumulation of unfished quotas.

Owing to reduced TACs for the Greenlandic fleet in recent years, (both because of a decreasing shrimp stock and the new way of allocating quotas implemented by the Greenlandic Government starting in 2012) and because the quota drawdowns since 2011 have been based on the actual amount of shrimps caught, the inshore fleet started fishing on its 2013 quota before the end of 2012 (Table 2).

In recent years the capacity of the Greenland Offshore fleet has been reduced and part of its quota has been sold to the Greenland Inshore fleet.

In 2013, cumulative transactions up to day 180 show 2013 to be falling between the catches in 2002 and 2003, which were between 100 000 tonnes and 105 000 tonnes (Fig. 1).

Acknowledgements

I 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 2012 and 2013 for the Canadian fleet.

References

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.

G.H. 2010 Selvstyrets bekendtgørelse nr. 20 af 16. december 2010 om kontrol med kystnært fiskeri efter rejer.

http://www.lovgivning.gl/gh.gl-love/dk/2010/bkg/bkg_nr_20-2010_dk.htm

G.H. 2010 Selvstyrets bekendtgørelse nr. 18 af 9. december 2010 om kontrol med havgående fiskeri.

http://www.lovgivning.gl/gh.gl-love/dk/2010/bkg/bkg_nr_18-2010_dk.htm

G.H. 2012 Selvstyrets bekendtgørelse nr. 1 af 2. februar 2012 om licens og kvoter til fiskeri.

http://www.lovgivning.gl/gh.gl-love/dk/2012/bkg/bkg_nr_01-2012_dk.htm

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

Source (date last fetched)	2005	2006	2007	2008	2009	2010	2011	2012	2013
GFLK [†] year (13-08-21) (SA 1)	129 647	127 327	123 126	132 213	120 024	114 314	118.148	113 257	
STATLANT [#] (SA1) (13-08-19)	149 978	153 188	142 245	148 550	133 561	123 973	122 061	114 958	
Logbooks, SA 1 (13-08-14) [‡]	147 687	150 533	139 657	153 889	135 029	128 108	122 655	115 963	
STATLANT [#] (0A) (13-08-19)	6410	3788	1878	0	429	5206	1134	12	
DFO quota report SFA1 [§] (13-08-19)	6921	4127	1945	0	220	5882	1296	5	
DFO, Observer logbooks	6088	3589	2024	0	167	5326	1330	5	
Total Catch for 2013 Assessment	156 899 _s	157 315 _s	144 190 _s	153 889 _l	135 458 _l	133 990 _l	123 985 _l	115 975 _l	100 000 _p
Total Catch for 2012 Assessment	156 899 _s	157 315 _s	144 190 _s	153 889 _l	135 458 _l	133 990 _l	123 985 _l	110 000 _p	
Total Catch for 2011 Assessment	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	156 899 _s	157 315 _s	144 190 _s	152 749 _l	134 890 _l	138 500 _p			
Total Catch for 2009 Assessment	156 899 _s	157 315 _s	144 190 _s	152 749 _l	108 812 _p				
TACs									
Total Greenland SA1 & SFA1								105 000	90 000
Greenland set-aside for Canada								3325	2737
Greenland SA1 offshore	74 100	74 100	74 100	70 281	59 025	60 525	68 400	55 675	47 802
Greenland SA1 inshore	55 900	55 900	55 900	53 019	51 545	50 045	51 600	42 000	36 061
Greenland SA1 EU	4000	4000	4000	4000	4000	4000	4000	4000	3400
Total Greenland enacted SA1	134 000	134 000	134 000	127 300	114 570	114570	124 000	101 675	87 263
Canada enacted SFA1 [◊]	18 453	18 380	18 417	18 417	18 417	18 417	18 417	16 921	15 504
Total enacted TAC, SA1 & SFA1	152 453	152 380	152 417	145 717	132 987	132 987	142 417	118 596	102 767
Advised by SC	130 000	130 000	130 000	110 000	110 000	110 000	120 000	90 000	80 000

[†] quota drawdowns recorded in the GFLK data base; [#] species PRA (Northern Prawn) and PAN (Pandalid shrimps). [‡] since 2004 legally required to be 'live weight' and includes discards; the catch is from January through June in 2013, the data fetched in August 2013 was used to update existing files held by Grønlands Naturinstitut; [§] Canadian Shrimp Fishing Area 1 is NAFO Division 0A east of longitude 60°30'W; ^{||} provided for 1999–2005 through David Orr in St John's, for 2006–12 through Tim Siferd in Winnipeg. *l* logbooks, *s* STATLANT + DFO Commercial Statistics, *p* provisional; [◊] by distribution list from DFO.

Table 2: Transfers of quotas between 2012 and 2013 for fleets fishing in SA1

Fleet	Enacted quotas for 2013 (t)	Transferred from 2012 to 2013 (t)	Available quotas in 2013 (t)
Greenland Offshore	47.802	4.698	52.499
Greenland Inshore	36.061	- 779	35.282
EU	3.400	0	3.400
Sum	87.263	3.919	91.181

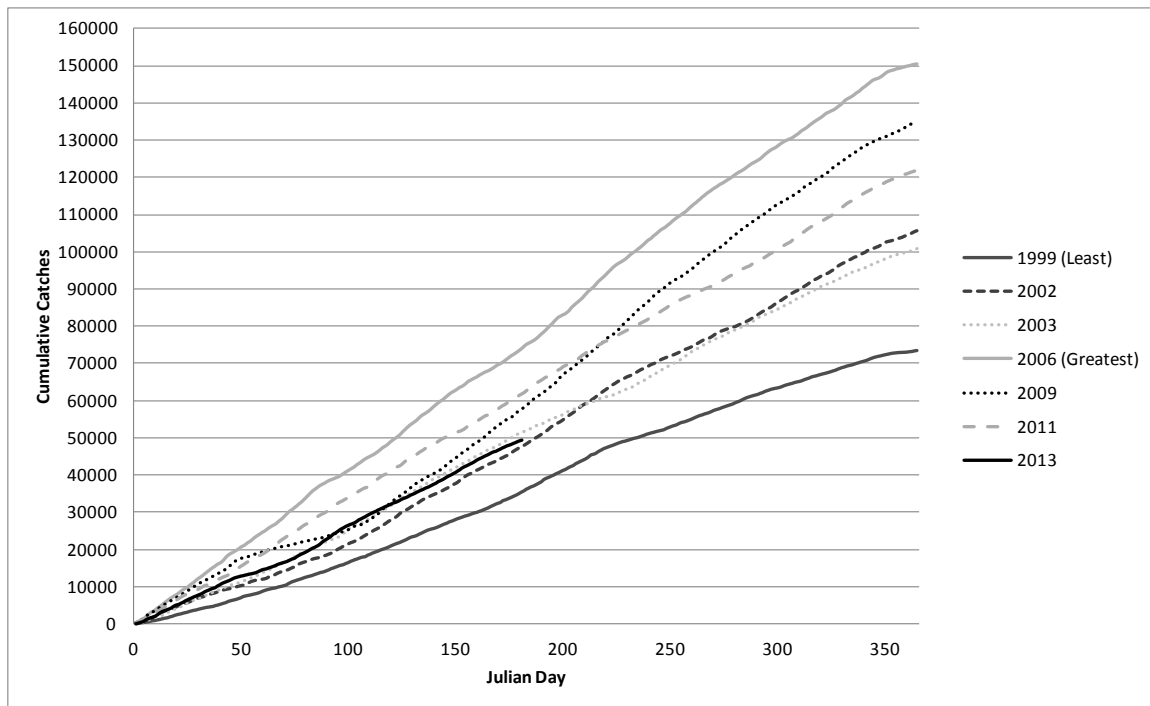


Fig. 1. Northern Shrimp in West Greenland: Cumulative transactions over the year, 1999–2013.
(With thanks to Mads Rossing Lund of GFLK.)