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Catch Table Update for the West Greenland Shrimp Fishery

by

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Introduction

The table in present document summarize various recent catch estimates and TAC values for the shrimp fisheries on the West Greenland shelf in Div. SA 1 and SFA 1.

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.A) and from 2009 provisional catch furnished by industry observers for the present year has been used as a measure for catch information.

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

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 inshore fleets (Table 1).

Quota drawdowns in Greenland 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). This has caused a discrepancy between the quota drawdowns by GFLK (Table 1) and the catch from the



logbooks (Table 1) amounting from 11% to 14% for the years 2007 to 2010. Since 2011, where quota drawdowns by legislation is required to be based on live-caught weight, this discrepancy has been less than 5%.

A Greenlandic 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. 2002 and G.H. 2012). These concessions have in earlier years led to accumulation of unfished quotas and can partly explain how the quota drawdowns by GFLK (Table 1) in some years can exceed the enacted TAC for Greenland (Table 1). In addition catches of *Pandalus montagui* have often not been distinguished in logbooks from *Pandalus borealis*, especially by vessels fishing bulk shrimps for landing in Greenland, the proportion of *P. montagui* being estimated by sampling the catch at the point of sale. Quota drawdowns were then restricted to the estimated weight of borealis and logbook records could in this way still come to exceed quotas. Since 2011 logbooks are required to record at least estimated catches of *P. montagui* (G.H. 2010).

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.

Results

Greenland has set a TAC at 101 250 tonnes for the fishery in 2018, 1257 tonnes is set aside to Canada and 99 998 tonnes for Greenland. However, the Canadian authorities have enacted a TAC of 14 875 tonnes. Greenlandic catches in 2018 are projected to be 99998 tonnes and Canadian catches to be close to 1.000 tonnes (Table 1.A).

From 2014 to 2016 a trial and development fishery has been conducted in the Melville Bay North of 73°30'N (for details on catches and TACs see Table 2, Table 1B). This area is now incorporated in the assessment. Hence catches from this area and TACs for this area are included in Table 1

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References

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Table 1. Annual catch (A), Input of yearly catch figures to Assessment Model (B) and TAC (C), for the fishery for Northern Shrimp on the West Greenland shelf up to 76°00'N

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
STATLANT# (SA1) (PRA and PAN)	142245	148550	133561	123973	122061	114958	91800	88834	71777	82922	89069	
GFLK† year (SA 1) (Quota drawdowns) (PRA)	123126	132213	120024	114314	118148	113257	92464	86625	68912	80855	85839	
Logbooks‡ (SA 1 up to 76°00'N) (PRA)	139657	153889	135029	128109	122659	115965	95379	88765	72254	84356	89369	99998p
STATLANT# (0A) (PRA and PAN)	1878	0	429	5206	1193	12	2	0	2	1381	2656	
DFO quota report SFA1§ (PRA)	1945	0	220	5882	1296	5	2	0	2	1171	3215	737p
DFO, Observer logbooks ^a (PRA)	2024	0	167	5326	1330	5	2	0	2	1171	3215	737p
B. Input to Assessment Model (tonnes) for year:	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total Catch for 2018 Assessment	144190s	153889l	135458l	1339911	123989l	115977l	95381 <i>l</i>	88765l	72256l	855271	90000	101250p
Total Catch for 2017 Assessment	144190s	153889l	135458l	1339911	123989l	115977l	95381 <i>l</i>	88765l	72256l	855271	90000p	
Total Catch for 2016 Assessment	144190s	153707l	135369l	1339851	1238531	115943l	952881	873581	70650l	82000p		
C. TACs (tonnes) for year:	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Greenland SA1 offshore	74100	70281	59025	60525	68400	55675	47802	45262	39365	45715	49223	55517
Greenland SA1 inshore	55900	53019	51545	50045	51600	42000	36061	34145	29696	34486	37134	41881
Greenland SA1 EU	4000	4000	4000	4000	4000	4000	3400	3400	2000	2600	2600	2600
Greenland set-aside for Canada						3325	2737	2193	1939	2199	1044	1252
Greenland Trial Fishery (SA1 North of 73°30'N)							2000	3509	3000	3000		
Total Greenland SA1 & SFA1						105000	92000	88509	76000	88000	90000	101250
Total Greenland enacted SA1	134000	127300	114570	114570	124000	101675	89263	86316	74061	85801	88956	99998
Canada enacted SFA1	18417	18417	15583	15583	15583	12750	11333	11333	8500	10625	12750	14875
Total enacted TAC, SA1 & SFA1	152417	145717	130153	130153	139583	114425	100596	97649	82561	96426	101706	114873
Advised by SC	130000	110000	110000	110000	120000	90000	80000	80000	60000	90000	90000	105000

† quota drawdowns (Northern Prawn, PRA) recorded in the GFLK data base; # species PRA (Northern Prawn) and PAN (Pandalid shrimps). ‡ since 2011 legally required to be 'live weight' and includes discards; § Canadian Shrimp Fishing Area 1 (SFA1) is NAFO Division 0A east of longitude 60°30′W; provided for 2006–15 through Tim Siferd and since 2016 through Wojciech Walkusz, Department of Fisheries and Oceans (DFO). GFLK = Greenland Fisheries and Licence Control. s STATLANT + DFO Commercial Statistics, I logbooks from Greenland and the highest catch reported from Canada, p provisional.



Table 2: Annual catch (A) and TAC (B), for the trial fishery for Northern Shrimp in Melville Bay from 73°30'N to 76°N

A. Catch (tonnes) in year:	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
GFLK† year (Quota drawdowns) (PRA)	-	-	-	-	-	-	0	1 392	1 552	2 611
Logbooks‡ (North of 73°30'N) (PRA)	0	182	89	5	132	32	93	1 407	1 604	3007
B. TACs (tonnes) for year:	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Greenland offshore fleet	-	-	-	-	-	-	2 000	2 000	1 943	1 943
Greenland inshore fleet	-	-	-	-	-	-	0	1 509	1 057	1 057
Total	-	-	-	-	-	-	2 000	3 509	3 000	3 000

[†] quota drawdowns (Northern Prawn, PRA) recorded in the GFLK data base. ‡ since 2011 legally required to be 'live weight' and includes discards.

