

Northwest Atlantic Fisheries Organization



**Report of the NAFO Commission Intersessional Meeting concerning
Fishing Regime for Shrimp in Division 3M**

18 September 2022
Porto, Portugal

NAFO
Halifax, Nova Scotia, Canada
2022

Report of the NAFO Commission,
18 September 2022

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1. Opening by the Acting Chair, Deirdre Warner-Kramer (USA)

The meeting was opened on Sunday, 18 September 2022 at 09:30 hours in Palacio do Bolsa, Porto, Portugal. The acting Chair of the Commission, Deirdre Warner-Kramer (USA) welcomed delegates from Canada, Denmark (in respect of the Faroe Islands and Greenland), European Union, France (in respect of St. Pierre et Miquelon), Iceland, Japan, Norway, Russian Federation, Ukraine and United States of America (Annex 01) to the meeting in her opening remarks.

2. Appointment of Rapporteur

The NAFO Secretariat (Fred Kingston, Executive Secretary, and Ricardo Federizon, Senior Fisheries Management Coordinator) was appointed as Rapporteur.

3. Adoption of Agenda

The provisional agenda previously circulated to all Contracting Parties in NAFO/22-192 on 20 July 2022 was adopted (Annex 02).

4. Proposals regarding the Allocation Regime for Shrimp in Division 3M

In advance of this meeting, the Secretariat compiled fisheries statistics pertaining to this stock covering 1993-2021. The compilation comprises two tables: 1) the nominal catches as reported by flag States in STATLANT 21, and 2) catches and effort (in terms of fishing days used) from the original reports by flag States in compliance with the reporting obligations required in the NAFO Conservation and Enforcement Measures. Contracting Parties reviewed the compilation for accuracy and provided corrections where needed. These tables serve to ensure that Contracting Parties use the same data set in the exercise of developing proposals on TAC (Total Allowable Catch)-based allocation model. The updated compilation is presented in Annex 3.

In advance of this meeting, discussion papers and proposals were sought intersessionally leading to this meeting. Contracting Parties presented their submissions. The following highlight the views and the main elements of the proposals (Annex 04):

- **Ukraine:** a minimum individual catch quota 2% of catch limit (for each Party), and the rest of the catch limit can be distributed to the Parties according to their historical catch during the last 10 years. (COM WP 22-01).
- **Norway:** The proposal is based on a model which has 1) a fifty-fifty weighing of allocated effort and realised fishing activity between 1993-2010, and 2) gives equal weighting of every year of in the 1993-2010 period of catch history (COM WP 22-06).
- **European Union:** The quota allocation is a blended formula with the following building blocks: current allocation key for effort days, 2) historical catches, 3) weighting of different fishing periods based on realized fishing patterns (COM WP 22-20).

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- **France (in respect of St. Pierre et Miquelon):** change in fishing regime [from effort based to TAC-based] must lead to an economically viable situation for each Contracting Party, including those which have currently a low number of fishing days (COM WP 22-08).
- **Iceland:** supports adopting a fishing regime for 3M Shrimp that is based on TAC and quota rather than fishing effort and allocates fishing opportunities among the Contracting Parties on the basis of historical catches rather than historical fishing effort (COM WP 22-09).
- **Russian Federation:** supports a direct transition of fishing days percentage to the proportional TAC percentage (COM WP 22-10).
- **Denmark (in respect of the Faroe Islands and Greenland):** supports considering an output-based management regime based on TAC and quota allocations (COM WP 22-11).
- **Canada:** With respect to considering an allocation regime for this stock, Contracting Parties are obliged to consider Article VI (12) of the Convention, which requires taking into account the interest of the relevant coastal States and giving special consideration to the Contracting Party that has undertaken extensive efforts to ensure the conservation of NAFO stocks through international action, in particular monitoring, control, and surveillance activities to ensure the enforcement of NAFO's conservation and enforcement measures (COM WP 22-12).

5. Discussion on Future Allocation Regime for Shrimp in Division 3M

Noting the SC's recommendation to convert the management regime to catch regulation in line with all other stocks in the NAFO Regulatory Area, there was broad support on moving to a TAC-based regime in order to ensure the effective and sustainable management of this stock. The immediate challenge was how to develop the TAC-based allocation scheme. In reviewing and discussing the proposals, and noting that the Commission had previously discussed the idea of using allocated effort and historical catches as building blocks for a conversion to a TAC-based regime, the following factors to consider in a TAC allocation scheme were identified and discussed (presented here not in the order of importance nor relevance):

- Which elements of historical data – time periods, effort allocations, catch, etc. – may factor into a new allocation arrangement,
- How to weight the various components of the historical data,
- Whether to set a minimum percentage level for small harvesters,
- How to reflect the key elements for allocation decisions set out in Article VI paragraph 12 of the Convention – i.e.:
 - *“...take into account the interests of Contracting Parties whose vessels have traditionally fished within that area and the interests of the relevant coastal States...”,* and
 - *“... in the allocation of fishing opportunities from the Grand Bank and Flemish Cap, the Commission shall give special consideration to the Contracting Party whose coastal communities are primarily dependent on fishing activities for stocks related to these fishing banks and which has undertaken extensive efforts to ensure the conservation of such stocks through international action...”*

With regards to historical data, there were discussions as to whether fishing history should be divided into several periods.

The proposals of EU and Norway outline a methodology by showing simulations of different scenarios, both a step-by-step approach by starting with the data for allocated effort and historical catches. The calculated weight factors could be adjusted if additional factors, such as those mentioned above, were to be incorporated.

Contracting Parties generally supported further developing this overall approach. One Contracting Party, however, expressed concern about the sequence in the step-by-step approach noting that the consideration of other factors after the historical catch and effort data would relegate those components to secondary factors. Another Contracting Party expressed that value-judgement on the factors should be avoided as they are equally important.

Attempts to resolve the issue in assigning percentage allocation among Contracting Parties were unsuccessful despite the bilateral and multilateral consultations among the Contracting Parties during this meeting.

With this impasse, the Commission agreed to continue the deliberations and negotiations at the Annual Meeting (see agenda item 21.c of the NAFO 44th Annual Meeting report in COM Doc. 22-27). The European Union and Norway indicated that a draft joint proposal would be circulated to Contracting Parties for the continuation of the discussions (COM WP 22-45).

The Chair summarized the deliberations and proposed the following steps in order to move the process forward:

- 1) Contracting Parties coordinate with the Secretariat in providing corrections and update to the 3M shrimp fisheries data (Rapporteur's note: the fisheries data presented in Annex 4 are updated as of 19 September 2022).
- 2) Contracting Parties, especially the European Union and Norway, collaborate and continue the constructive consultations to advance the mathematical model of a TAC-based allocation scheme based on their two proposals. The Chair welcomed Canada's willingness to collaborate with the European Union and Norway in developing a common model.
- 3) Contracting Parties strike a balance among which historical data to use, i.e., the combination of catch, effort allocation, years/historic periods.
- 4) Contracting Parties figure out the weighing factors under the umbrella of the historical data, and
- 5) Contracting Parties incorporate the three elements that are called for in the Convention, namely
 - a) historical fishing levels
 - b) the interests of relevant coastal states, and
 - c) special consideration to the Contracting Party (Canada).
- 6) Contracting Parties consider how to incorporate special considerations for access by small harvesters (economic viability).

Furthermore, Contracting Parties were urged to exercise flexibility in developing the allocation scheme that reflects the balance of the interests of Contracting Parties.

6. Other business

There was no further matter discussed under this agenda item.

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7. Adoption of Report

The meeting report was adopted by correspondence.

8. Adjournment

The meeting was adjourned at 16:00 hours on 18 September 2022.



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Annex 2. Agenda

1. Opening by the Acting Chair, Deirdre Warner-Kramer (United States of America)
2. Appointment of Rapporteur
3. Adoption of Agenda
4. Proposals regarding the Allocation Regime for Shrimp in Division 3M
5. Discussion on Future Allocation Regime for Shrimp in Division 3M
6. Other business
7. Adoption of report
8. Adjournment

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Annex 3. Catch and Effort Data on 3M Shrimp
(COM WP 22-02 Rev. 5)

Table 1. NAFO Catch of shrimp (t) in Division M*

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011- 2020	2021	Grand Total	
CAN-M	1062	37	98	166		28	91										2				1484	
CAN-N	2129	1005	870	742	784	435	383	104	295	8				10						789	7554	
CAN-SF																				1116	1116	
CUB							120	46	1037	1537	1462	969	964	1126	446							7707
E/DNK	514	245	190			430	236		93	359											1234	3301
E/ESP	240	187	280	198	423	912	1020	1347	855	674	857	1134	1384	877	768	374	537	506		16		12589
E/EST		1051	2380	1973	3239	5533	10835	12143	9851	13681	12851	13444	12009	5651	7466	9817	2078	254				124256
E/GBR											547											547
E/LTU		863	980	1585	1785	3107	3370	3529	2701	3321	3744	4802	3652	1246	1992	485		102		1588		38852
E/LVA		324	679	1253	997	1191	3080	3105	2961	1892	3533	3059	2212	1330	1939	1284	1194	611				30644
E/POL					824	148	894	1692	209			1158	458	224	1							5608
E/PRT			17		170	203	227	289	420	16		50						3				1395
FRA-SP								138	337	161					741		293					1670
FRO	7076	4998	5815	8429	7386	9271	9086	7207	11871	7680	12648	4952	2457	1102	2303	1189	1349	495		1162		106476
GRL	3788	2275	2400	1107	104	866	576	1734		644	809		12	769								15084
ISL	2195	2355	7481	20680	7197	6572	9148	8736	5063	5754	4715	3567	4014	2099								89576
JPN								114	130	100	117											461
NOR	7075	8625	9534	5747	1831	1339	2975	2588	12972	11833	21238	11738	223	429	1914	261						100322
RUS	54	350	3327	4444	1090		1103	7070	5687	1176	3	654	266	46	73	21	20	7				25391
UKR									348		237	315		282								1182
USA								629	758	96	762	952	1235	1258	1287							6977
Grand Total	24133	22315	34051	46324	25830	30035	43144	50471	55588	48932	63523	46794	28886	16449	18930	13431	5476	1975	0	5905	582192	

* The primary data source is STATLANT 21A. There is no reported catch in years 2011-2020. Numbers in italics are charter catch submitted by the chartering CP/s.

Table 2. 3M Shrimp Catch, Fishing days used, and Fishing days allocation, 1993-2022.

	1993		1994		1995		1996			1997			1998		
	3M Catches (mt)	Reported fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M
CAN	3191	507	1042	333	968	319	166	311	492	608	156	443	442	82	443
CUB							-	-	100	-	-	100	-	-	100
Estonia	268	149	1051	609	2379	2153	1614	990	1852	3166	1254	1217	4803	1454	1217
EU	754	139	432	97	487	44	199	-	508	569	63	457	1482	105	457
DFG															
FRO	7333	1324	6791	1785	5993	1093	8687	1831	1785	7387	1250	1606	9179	1292	1606
GRL	3780	572	2272	482	2316	265	1099	202	572	100	31	515	861	113	515
FRA (SPM)							-	-	100	-	22	100	-	-	100
ISL	2195	279	2355	638	7481	1842	21077	5256	N/A	5671	1327	N/A	5437	980	N/A
JPN							-	-	100	-	-	100	-	-	100
KOR							-	-	100	-	-	100	-	-	100
Latvia			324	190	679	649	1253	504	544	956	439	490	1190	402	490
Lithuania			863	453	980	638	1567	918	638	1708	611	579	3106	866	579
NOR	7074	1403	8625	2206	9391	2162	5853	1549	2206	1974	329	1985	1315	211	1985
Poland							-	-	100	288	100	100	-	40	100
RUS	54	76	350	41	3327	1533	4443	2458	N/A	1067	807	2600	-	-	2600
UKR													-	-	
USA							-	-	100	-	-	100	-	-	100
Grand total	24649	4449	24105	6834	34001	10698	45958	14019	9197	23494	6389	10492	27815	5545	10492

Data Sources:

3M Catches 1993-1995: Meeting Report on Shrimp Stocks in the Regulatory Area, 27-30 March 2000, Washington DC. Table 2 of Annex 10 in GC Doc 00/3.

3M Catches 1996-2021: Monthly Provisional Catch Reports

Reported Fishing Days in 3M, 1993-1999: Meeting Report on Shrimp Stocks in the Regulatory Area, 27-30 March 2000, Washington DC. Table 2 of Annex 10 in GC Doc 00/3.

Reported Fishing Days in 3M, 2000-2021: Monthly Provisional Catch Reports

Allocated fishing Days in 3M, 1996-2003: Report of the FC Intersessional Meeting, 30 April -7 May 2008, Montreal, Quebec. Table 2 of Annex 5 in FC Doc 08/4.

Allocated fishing Days in 3M, 2004-2021: Annex I.B of NAFO CEM.

Table 2. 3M Shrimp Catch, Fishing days used, and Fishing days allocation, 1993-2022.

	1999			2000			2001			2002			2003		
	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M
CAN	385	79	456	105	261	456	294	-	380	8	-	400	0	-	456
CUB	119	33	100	46	22	100	797	72	100	153	12	100	81	10	100
Estonia	10846	1651	1667	12196	1663	1667	9638	1180	1389	13674	1594	1667	12732	1458	1667
EU	1265	268	457	1617	252	457	756	-	400	1045	151	400	161	21	457
DFG															
FRO	9189	1051	1606	7119	934	1606	12267	1433	1606	8515	1021	1606	12661	1410	1606
GRL	576	65	515	1638	223	515	0	-	515	680	65	515	873	73	515
FRA (SPM)	-	-	100	-	-	100	408	70	100	161	40	100	-	-	100
ISL	7643	1222	N/A	7731	1094	N/A	5301	-	N/A	5351	-	N/A	4588	-	N/A
JPN	-	-	100	114	69	100	130	61	100	100	38	100	116	54	100
KOR	-	-	100	-	-	100	-	-	100	-	-	100	-	-	100
Latvia	2765	438	490	3102	489	490	2984	485	490	1885	277	490	3453	431	490
Lithuania	3370	620	579	3528	581	579	2702	550	579	3321	415	579	3744	495	579
NOR	2976	394	1985	2633	399	1985	13255	1559	1654	11225	1240	1985	22874	1774	1985
Poland	707	104	100	316	43	100	196	9	100	-	-	100	-	-	100
RUS	1126	417	2100	7078	1411	2100	5687	948	1750	1145	196	2100	3	-	2100
UKR	-	-	-	-	-	100	348	68	100	-	-	100	238	41	100
USA	-	-	100	-	-	100	411	35	100	96	10	100	628	97	100
Grand total	40967	6342	10455	47223	7441	10555	55174	6470	9463	47359	5059	10442	62152	5864	10555

Data Sources:

3M Catches 1993-1995: Meeting Report on Shrimp Stocks in the Regulatory Area, 27-30 March 2000, Washington DC. Table 2 of Annex 10 in GC Doc 00/3.

3M Catches 1996-2021: Monthly Provisional Catch Reports

Reported Fishing Days in 3M, 1993-1999: Meeting Report on Shrimp Stocks in the Regulatory Area, 27-30 March 2000, Washington DC. Table 2 of Annex 10 in GC Doc 00/3.

Reported Fishing Days in 3M, 2000-2021: Monthly Provisional Catch Reports

Allocated fishing Days in 3M, 1996-2003: Report of the FC Intersessional Meeting, 30 April -7 May 2008, Montreal, Quebec. Table 2 of Annex 5 in FC Doc 08/4.

Allocated fishing Days in 3M, 2004-2021: Annex I.B of NAFO CEM.

Table 2. 3M Shrimp Catch, Fishing days used, and Fishing days allocation, 1993-2022.

	2004			2005			2006			2007			2008		
	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M
CAN	0	0	456	0	0	456	10	3	456	0	0	456	0	0	456
CUB	969	100	100	1043	100	100			100			100		4	100
Estonia	13455	1625	1667		-	-		-	-			-			
EU	2724	16	457		1866	3293		908	3293	9458	1171	3293	8590	928	3293
DFG															
FRO	4932	600	1606	2341	217	1606	1150	108	1606	2313	144	1606	1201	86	1606
GRL	0	0	515	10	2	515	793	63	515	0	0	515		0	515
FRA (SPM)	423	58	100	487	45	100	183	17	100	741	65	100	0	62	100
ISL	3519	0	N/A	4073	0	N/A	2099	0	N/A	0	0	N/A	0	0	N/A
JPN	0	0	100	0	0	100	0	0	100	0	0	100	0	0	100
KOR	-	-	100	-	-	100	-	-	100	0		100			100
Latvia	2332	361	490		-	-		-	-			-			
Lithuania	4802	578	579		-	-		-	-			-			
NOR	10743	978	1985	184	13	1985	433	32	1985	1982	104	1985	0		1985
Poland	1124	98	100		-	-		-	-			-			
RUS	654	62	2100	268	59	2100	46	6	2100	76	13	2100	20	4	2100
UKR	314	42	100	-	-	100	277	31	100			100	0		100
USA	952	101	100	1188	99	100			100			100	0		100
Grand total	46943	4619	10555	9594	2401	10555	4991	1168	10555	14570	1497	10555	9811	1084	10555

Data Sources:

3M Catches 1993-1995: Meeting Report on Shrimp Stocks in the Regulatory Area, 27-30 March 2000, Washington DC. Table 2 of Annex 10 in GC Doc 00/3.

3M Catches 1996-2021: Monthly Provisional Catch Reports

Reported Fishing Days in 3M, 1993-1999: Meeting Report on Shrimp Stocks in the Regulatory Area, 27-30 March 2000, Washington DC. Table 2 of Annex 10 in GC Doc 00/3.

Reported Fishing Days in 3M, 2000-2021: Monthly Provisional Catch Reports

Allocated fishing Days in 3M, 1996-2003: Report of the FC Intersessional Meeting, 30 April -7 May 2008, Montreal, Quebec. Table 2 of Annex 5 in FC Doc 08/4.

Allocated fishing Days in 3M, 2004-2021: Annex I.B of NAFO CEM.

Table 2. 3M Shrimp Catch, Fishing days used, and Fishing days allocation, 1993-2022.

	2009			2010			2011-2019			2020			2021			2022		
	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M	3M Catches (mt)	Reported fishing days in 3M	Allocated fishing days in 3M
CAN	0	0	456	0	0	228	M	M	M	0.067	3	114	804.267	103	114	M	M	M
CUB	0		100	0	0	50	o	o	o	0	0	25	19.62	7	25	o	o	o
Estonia							r	r	r							r	r	r
EU	3086	360	3293	1023	165	1646	a	a	a	78.9	19	823	2623.41	218	823	a	a	a
DFG							t	t	t							t	t	t
FRO	1392	85	1606	488	33	803	o	o	o			402	1162	89	402	o	o	o
GRL	0	0	515	0	0	258	r	r	r			129			129	r	r	r
FRA (SPM)	0	16	100	0		50	i	i	i			25	94	10	25	i	i	i
ISL	0	0	N/A	0	0	N/A	u	u	u			N/A			N/A	u	u	u
JPN	0	0	100	0		50	m	m	m			25			25	m	m	m
KOR	0	0	100	0		50						25			25			
Latvia																		
Lithuania																		
NOR	0	0	1985	0	0	992	-	-	-			496			496	-	-	-
Poland																		
RUS	20	5	2100	0	0	1050	-	-	-	0.3	1	525			525	-	-	-
UKR	0	0	100			50	-	-	-			25			25	-	-	-
USA	0	0	100			50	-	-	-			25	175.247	13	25	-	-	-
Grand total	4498	466	10555	1511	198	5277	0	0	0	79.267	23	2639	4878.5	440	2639	0	0	0

Data Sources:

3M Catches 1993-1995: Meeting Report on Shrimp Stocks in the Regulatory Area, 27-30 March 2000, Washington DC. Table 2 of Annex 10 in GC Doc 00/3.

3M Catches 1996-2021: Monthly Provisional Catch Reports

Reported Fishing Days in 3M, 1993-1999: Meeting Report on Shrimp Stocks in the Regulatory Area, 27-30 March 2000, Washington DC. Table 2 of Annex 10 in GC Doc 00/3.

Reported Fishing Days in 3M, 2000-2021: Monthly Provisional Catch Reports

Allocated fishing Days in 3M, 1996-2003: Report of the FC Intersessional Meeting, 30 April -7 May 2008, Montreal, Quebec. Table 2 of Annex 5 in FC Doc 08/4.

Allocated fishing Days in 3M, 2004-2021: Annex I.B of NAFO CEM.



Annex 4. Discussion Papers and Proposals from NAFO Contracting Parties

COM WP 22-01	Fishing regime Shrimp in division 3M NAFO – Ukraine
COM WP 22-06	Fishing regime Shrimp in division 3M NAFO – Norway
COM WP 22-08	Fishing regime Shrimp in division 3M NAFO – France (in respect of St. Pierre et Miquelon) [originally COM WP 21-10]
COM WP 22-09	Fishing regime Shrimp in division 3M NAFO – Iceland [originally COM WP 21-11]
COM WP 22-10	Fishing regime Shrimp in division 3M NAFO – Russian Federation [originally COM WP 21-12]
COM WP 22-11	Fishing regime Shrimp in division 3M NAFO – Denmark (in respect of the Faroe Islands and Greenland) [originally COM WP 21-22]
COM WP 22-12	Fishing regime Shrimp in division 3M NAFO – Canada
COM WP 22-20	Fishing regime Shrimp in division 3M NAFO – European Union

Report of the NAFO Commission,
18 September 2022

[The pdf versions of each Working Paper to be inserted]

