



Serial No. N7482

NAFO SCS Doc. 23/23

**SCIENTIFIC COUNCIL MEETING – JUNE 2023****Available Data from the Commercial Fisheries Related to Stock Assessment (2022) and Inventory of Biological Surveys Conducted in the NAFO Area in 2022 and Biological Surveys Planned for 2023 and Early-2024**

At its meetings in June 2002 and 2003, the Scientific Council (STACREC) agreed that three Tables which are usually compiled and presented as Tables 3, 4 and 5 in the STACREC report are important and need to be complete with information from all Scientific Council sources. Accordingly, STACREC in June 2002 **recommended** that *in future years the Secretariat compile the reports of research activities as a working document for the June Meeting, and that it then be presented to STACREC as a SCS document at its September Meeting.*

The attached Tables were drafted as Scientific Council Working Papers during the June 2023 Scientific Council Meeting and have been updated/corrected through correspondence.



Available data from the commercial fisheries related to stock assessment (2022). (+ means data available).

<b>Biological Sampling</b>								
<b>Stock</b>	<b>Country<sup>1</sup></b>	<b>Catch</b>	<b>CPUE</b>	<b>Sex</b>	<b>Length</b>	<b>Age</b>	<b>Individual Wt.</b>	<b>Maturity</b>
<b>3M Cod</b>	EU/PRT	+			+		+	
	EU/ESP	+		+	+	+	+	+
	EU/EST	+		+	+		+	+
	FRO	+		+	+	+	+	+
	NOR	+			+	+		
	RUS	+						
<b>3NO Cod</b>	CAN	+			+			
	EU/ESP	+	+	+	+		+	
	EU/PRT	+	+					
	EU/EST	+	+	+	+			
	RUS	+						
	FRO	+						
<b>SA 1 Redfish</b>	GRL	+	+	+	+	+	+	+
<b>3LN Redfish</b>	CAN	+			+			
	EU/PRT	+			+			
	EU/ESP	+			+			
	EU/EST	+			+			
	RUS	+			+			
	JPN	+						
<b>3M Beaked redfish</b>	EU/PRT	+	+		+			
	EU/ESP	+			+			
	EU/EST	+			+			
	RUS	+						
<b>3M Golden redfish</b>	EU/PRT	+						
	EU/ESP	+						
	EU/EST	+						
	RUS	+						
<b>3O Redfish</b>	CAN	+	+					
	EU/PRT	+	+	+	+	+		
	EU/ESP	+	+	+	+			
	RUS	+	+					
	EU/EST	+	+	+	+		+	
	JPN	+						
<b>3M American plaice</b>	EU/PRT	+			+			
	EU/ESP	+						
	EU/EST	+						
<b>3NO Witch flounder</b>	CAN	+			+		+	
	EU/PRT	+						
	EU/ESP	+						
	RUS	+						
<b>3LNO Yellowtail flounder</b>	CAN	+		+	+		+	
	EU/PRT	+						
	EU/ESP	+	+		+		+	
	RUS	+						
	EU/EST	+			+			
	USA	+			+			

<b>3LNO American plaice</b>	CAN	+		+	+		+	
	EU/PRT	+			+		+	
	EU/ESP	+		+	+			
	RUS	+						
	EU/EST	+			+		+	
<b>SA 0 + 1 (offshore) Greenland halibut</b>	CAN	+	+					
	RUS	+	+		+			
	GRL	+	+	+	+	+	+	+
	NOR	+	+					
	EU/DEU	+	+		+			
	FRO	+	+		+			
<b>SA 1A Greenland halibut</b>	GRL	+	+	+	+	+	+	+
<b>SA 2+3 Greenland halibut</b>	CAN	+	+	+	+	+	+	
	EU/PRT	+	+	+	+			
	EU/ESP	+	+	+	+			
	EU/EST	+	+	+	+			
	RUS	+	+	+	+			
	JPN	+			+			
	FRO	+						
<b>SA 2+3 Roughhead grenadier</b>	EU/ESP	+		+	+		+	
	EU/EST	+						
	EU/PRT	+						
	RUS	+		+	+			
	CAN	+						
	JPN	+						
<b>3NO Capelin</b>	NO AVAILABLE DATA							
<b>SA 3+4 Squid</b>	CAN	+						
<b>SA 6 Alfonsino</b>	NO AVAILABLE DATA SINCE 2019							

Stock	Country <sup>1</sup>	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
<b>SA 1 Wolffish</b>	GRL	+	+	+	+	+	+	+
<b>3NOPs White Hake</b>	CAN	+			+			
	EU/PRT	+		+	+			
	EU/ESP	+		+	+			
	RUS	+						
<b>3LNOPs Thorny skate</b>	CAN	+			+			
	EU/PRT	+		+	+			
	EU/ESP	+		+	+			
	RUS	+						
<b>3LNO Shrimp<sup>2</sup></b>	CAN-N	+	+	+	+			+
(No commercial sampling since ndf was implemented in 2015)	EU/ESP	+	+	+	+			+
	EU/EST	+	+		+			
	FRO	+	+					
	GRL	+	+					
<b>Denmark Strait Shrimp</b>	GRL	+	+					
	EST	+	+					
	DNK	+	+					
	NOR	+	+					
	FRO	+	+					
<b>SA 0+1 Shrimp</b>	CAN	+	+ <sup>2</sup>					
	GRL	+	+	+				
	DNK	+	+					

1 Country abbreviations NAFO 3-Alpha.

2 No CPUE data available from the Canadian fleet since 2011

## Inventory of biological surveys conducted in the NAFO Area in 2022.

<b>Stratified Random Surveys</b>				No. of sets
Subarea/Division	Country	Month(s)	Type of survey	
1A-F	DFG	5-7	Cosmos bottom trawl northern shrimp and demersal fish	331
1CD	DFG	10	Bacalao bottom trawl- Groundfish	65
ICES14b	DFG	8	Stratified semi-systematic; trawl; Cosmos 2000 w/rockhopper targeting northern shrimp and demersal fish	
3NO	EU-ESP	6,7	Groundfish	114
3M	EU-ESP+PRT	7, 8	Groundfish	183
4X	USA	5	Spring Multi-species Bottom Trawl Survey	12
4X	USA	11	Autumn Multi-species Bottom Trawl Survey	10
4X, 4Y	USA	5,6,7,11	Ecosystems Monitoring Survey	18
4X	USA	6	Line transect surveys from NOAA Twin Otter	0
5Y	USA	1,3,4,5,6	Line transect surveys from NOAA Twin Otter	0
5Ze	USA	4,5,6	Line transect surveys from NOAA Twin Otter	0
5Y	USA	4, 5	Spring Multi-species Bottom Trawl Survey	66
5Y,Ze,Zw	USA	4-7,10,11	Ecosystems Monitoring Survey	225
5Y	USA	10, 11	Autumn Multi-species Bottom Trawl Survey	50
5Z	USA	4,5	Spring Multi-species Bottom Trawl Survey	143
5Z	USA	10,11	Autumn Multi-species Bottom Trawl Survey	110
5Z	USA	5,6	Sea Scallop Dredge Survey	120
5Y	USA	6,7,8	Northern Shrimp Survey	59
5Zw, Ze	USA	8	Surfclam & Ocean Quahog Dredge Survey	10
6A,B,C	USA	8	Surfclam & Ocean Quahog Dredge Survey	178
5Y	USA	4,5,9,10,11	Gulf of Maine Cooperative Bottom Longline Survey	98
5Z	USA	4,5,9,10,11	Gulf of Maine Cooperative Bottom Longline Survey	6
6A	USA	1	Line transect surveys from NOAA Twin Otter	0
6A	USA	3,4	Spring Multi-species Bottom Trawl Survey	62
6A	USA	9,10	Autumn Multi-species Bottom Trawl Survey	56
6B	USA	3,4	Spring Multi-species Bottom Trawl Survey	46
6B	USA	9,10	Autumn Multi-species Bottom Trawl Survey	48
6A, B, C	USA	5	Sea Scallop Dredge Survey	0
6C	USA	3	Spring Multi-species Bottom Trawl Survey	36
6C	USA	9	Autumn Multi-species Bottom Trawl Survey	37
6A, B, C	USA	3,4,5,7,8,9,11	Ecosystems Monitoring Survey	186

**Other Surveys**

<b>Subarea/Division</b>	<b>Country</b>	<b>Month(s)</b>	<b>Type of Survey</b>	<b>No. of sets</b>
5Zw	USA	1,3,4,6	Line transect surveys from NOAA Twin Otter	0
5Ze	USA	5,6	Sea Scallop Stereo-Optic Camera Transect Survey	600
5Zw	USA	8	Mesopelagic Exploration	1
5Z,5Y,4X,4W,4VN,4T				
5zW,5zE	USA	1-12	Right whale aerial surveys/Marine mammal distribution	0
5,6 D, Ze, Zw	USA	7, 8	AMAPPS- Cetacean Biology	0
6B	USA	5	Sea Scallop Stereo-Optic Camera Transect Survey	1,124

Biological surveys planned for the NAFO Area in 2023 and early-2024.
--

Subarea/Division	Country	Type of Survey	Dates
<b>Stratified-Random Surveys</b>			
1A-F	DFG	Cosmos Bottom trawl; targeting shrimp and demersal fish	May-Jul
1CDdeep	DFG	Bacalao bottom trawl targeting GHL and demersal	Nov-Dec
ICES14B	DFG	Stratified semi-systematic; trawl; Cosmos 2000 w/rockhopper targeting northern shrimp and demersal fish	August
3LNO	EU-ESP	Groundfish	Jun-Aug
3M	EU-ESP+PRT	Groundfish	Jul-Aug
6A, B, C	USA	Spring bottom trawl	Mar - May
5X	USA	Gulf of Maine longline	Apr - May
5Z, 6A,B,C	USA	Sea scallop survey	May-Jun
6A,B,C	USA	Spring Ecosystem Monitoring	Jun
5Z, 6A	USA	Summer Ecosystem Monitoring	Aug
5Z, 6A, B	USA	Surfclam & ocean quahog	Aug
4X, 5Y,Z, 6A, B, C	USA	Autumn bottom trawl	Sep-Nov
4X, 5Y,Z, 6A, B, C	USA	Fall Ecosystems monitoring	Oct - Nov
5X	USA	Gulf of Maine Longline	Oct - Nov
<b>Other Surveys</b>			
1Din Nuukfjord	DFG	Acoustic- Cod	March
1BC	DFG	Snowcrab	May-Jun
1ANorthOffshore	DFG	Benthos/Shrimp/GHL	October
1AinshoreDiskoB	DFG	Gillnet	June-July
1AinshoreUMK	DFG	Gillnet	July
1AinshoreUPV	DFG	Gillnet	August
1Dinshore	DFG	Bacalao trawl	April
4X, 5Y,Z	USA	North Atlantic Right Whale	May-Jun