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SCIENTIFIC COUNCIL MEETING – JUNE 2020**Available Data from the Commercial Fisheries Related to Stock Assessment (2019) and Inventory of Biological Surveys Conducted in the NAFO Area in 2019 and Biological Surveys Planned for 2020 and Early-2021**

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 2020 Scientific Council Meeting and have been updated/corrected through correspondence.



Available data from the commercial fisheries related to stock assessment (2019). (+ means data available).

Biological Sampling								
Stock	Country¹	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
3M Cod	EU/PRT	+			+		+	
	EU/ESP	+		+	+	+	+	+
	EU/EST	+		+	+		+	+
	FRO	+			+		+	
	NOR	+			+			
	RUS	+						
	JPN	+						
	USA	+						
3NO Cod	CAN	+	+	+	+	+	+	+
	EU/ESP	+	+	+	+	+	+	
	EU/PRT	+	+		+			
	EU/EST	+	+	+	+	+	+	
	USA	+						
	RUS	+			+			
	JPN	+						
	FRO	+						
SA 1 Redfish	GRL	+	+	+	+		+	+
3LN Redfish	EU/PRT	+	+	+	+		+	
	EU/ESP	+		+	+			
	RUS	+		+	+			
	EU/EST	+		+	+			
	FRO	+						
	CAN-N	+						
	FRA-SP	+						
	JPN	+						
3M Beaked redfish	EU/PRT	+			+			
	EU/ESP	+			+			
	EU/EST	+			+			
	RUS	+			+			
	NOR	+						
	JPN	+			+			
	SPM	+						
3M Golden redfish	EU/PRT	+			+			
	EU/ESP	+			+			
	EU/EST	+			+			
	RUS	+			+			
	NOR	+						
	JPN	+			+			
	SPM	+						
30 Redfish	CAN	+	+	+	+	+	+	
	EU/PRT	+	+	+	+			
	EU/ESP	+	+	+	+			
	RUS	+	+	+	+			
	EU/EST	+	+	+	+			
	JPN	+						
3M American plaice	EU/PRT	+			+			
	EU/ESP	+			+			
	RUS	+			+			
	EU/EST	+						
	NOR	+						
	JPN	+						

3NO Witch flounder	CAN	+			+		+	
	EU/PRT	+						
	EU/ESP	+	+		+			
	EU/EST	+						
	RUS	+			+			
	JPN	+						
2J3KL Witch flounder	CAN	+		+		+		
	EU/PRT	+						
	EU/ESP	+	+	+		+		
	RUS	+						
	EU/EST	+		+				
	JPN	+		+				
	USA	+		+				
3LNO Yellowtail flounder	CAN	+			+		+	
	EU/PRT	+						
	EU/ESP	+	+		+		+	
	RUS	+			+			
	EU/EST	+			+			
	JPN	+			+			
	USA	+			+			
SA 0 + 1 (offshore) Greenland halibut	CAN	+	+		+			
	RUS	+	+		+			
	GRL	+	+		+			
	NOR	+	+		+			
	EU/DEU	+	+					
SA 1A Greenland halibut	GRL	+	+	+	+	+	+	+
SA 2+3 Greenland halibut	CAN	+	+		+	+		
	EU/PRT	+	+		+		+	
	EU/ESP	+	+	+	+	+		
	EU/EST	+		+	+			
	RUS	+	+	+	+	+		
	JPN	+			+			
	FRO	+						
SA 2+3 Roughhead grenadier	EU/ESP	+		+	+		+	
	EU/EST	+						
	EU/PRT	+		+	+			
	RUS	+						
	CAN	+						
	JPN	+						
3NO Capelin	NO AVAILABLE DATA							
SA 3+4 Squid	CAN	+						
SA 6 Alfonsino	EU/ESP	+	+	+	+			

Stock	Country ¹	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
SA 1 Wolffish	GRL	+	+		+			
3NOPs White Hake	CAN	+			+			
	EU/PRT	+						
	EU/ESP	+		+	+			
	RUS	+		+				
3LNOPs Thorny skate	CAN	+			+			
	EU/PRT	+						
	EU/ESP	+		+	+			
	RUS	+		+				
3LNO Shrimp²	CAN-N	+	+	+	+			+
(No commercial sampling since ndf was implemented in 2015)	EU/ESP	+	+	+	+			+
	EU/EST	+	+		+			
	FRO	+	+					
	GRL	+	+					
Denmark Strait Shrimp	GRL	+	+					
	EST	+	+					
	DNK	+	+					
SA 0+1 Shrimp	CAN	+	+ ²					
	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 2019.

Subarea/Division	Country	Stratified Random Surveys		No. of sets
		Month(s)	Type of survey	
3L	EU-ESP	8	Groundfish	97
3M	EU-ESP+PRT	7	Groundfish	183
3NO	EU-ESP	6	Groundfish	115
4X	USA	4, 5	Spring Multi-species Bottom Trawl Survey	21
4X, 4Y	USA	4-6,8, 10, 11	Ecosystems Monitoring Survey	26
4X	USA	10, 11	Autumn Multi-species Bottom Trawl Survey	16
4X	USA	6	Line transect surveys from NOAA Twin Otter	0
4X, 5Ze	USA	6	Deep-Sea Corals	11
5Y	USA	1, 3, 4, 5, 6	Line transect surveys from NOAA Twin Otter	0
5 Ze	USA	4, 5, 6	Line transect surveys from NOAA Twin Otter	0
5Y,Ze,Zw	USA	3-6, 8, 10, 11	Ecosystems Monitoring Survey	374
5Y	USA	4,5	Spring Multi-species Bottom Trawl Survey	70
5Y	USA	10, 11	Autumn Multi-species Bottom Trawl Survey	63
5Y	USA	6,7,8	Northern Shrimp Survey	81
5Y	USA	6,7,8	Northern Shrimp Survey	99
5Y	USA	4, 5, 10, 11	Gulf of Maine Cooperative Bottom Longline Survey	82
5Z	USA	4, 5, 10, 11	Gulf of Maine Cooperative Bottom Longline Survey	8
5Z	USA	3, 4	Spring Multi-species Bottom Trawl Survey	145
5Z	USA	10, 11	Autumn Multi-species Bottom Trawl Survey	137
5Z	USA	5,6	Sea Scallop Dredge Survey	122
5Zw, Ze	USA	8	Surfclam & Ocean Quahog Dredge Survey	9
5Ze	USA	6,7,8	Northern Shrimp Survey	9
5Ze	USA	5,6	Sea Scallop Dredge Survey	120
5Ze	USA	8	Surfclam & Ocean Quahog Dredge Survey	181
6A	USA	1	Line transect surveys from NOAA Twin Otter	0
6A	USA	3	Spring Multi-species Bottom Trawl Survey	56
6A	USA	9	Autumn Multi-species Bottom Trawl Survey	59
6B	USA	3	Spring Multi-species Bottom Trawl Survey	52
6B	USA	9	Autumn Multi-species Bottom Trawl Survey	53
6B	USA	5	Sea Scallop Dredge Survey	2
6C	USA	3	Spring Multi-species Bottom Trawl Survey	35
6C	USA	9	Autumn Multi-species Bottom Trawl Survey	30
6A, 6B, 6C	USA	5	Sea Scallop Dredge Survey	40
6A, 6B, 6C	USA	3,5,8,9,10	Ecosystems Monitoring Survey	195
6A, 6B, 6C	USA	8	Surfclam & Ocean Quahog Dredge Survey	170
6A, 5Zw, 5Ze	USA	5	North Atlantic Right Whale	0

Other Surveys

Subarea/Division	Country	Month(s)	Type of Survey	No. of sets
5,6 D, Ze, Zw	USA	7, 8	AMAPPS - Cetacean biology	0
5 Zw	USA	1, 3, 4, 6	Line transect surveys from NOAA Twin Otter	0
5Ze	USA	5, 6	Sea Scallop Stereo-Optic Camera Transect Survey	2060
5Ze	USA	5,6	Sea Scallop Stereo-Optic Camera Transect Survey	286
5Zw	USA	7, 8	Mesopelagic Exploration	11
6A, 6B	USA	5,6	Sea Scallop Stereo-Optic Camera Transect Survey	1319
6B	USA	5	Sea Scallop Stereo-Optic Camera Transect Survey	349
5Z,5Y,4X,4W,4VN, 4T, 5zW, 5zE	USA	1 -12	Right whale aerial surveys: Marine mammal distribution	0

Biological surveys planned for the NAFO Area in 2020 and early-2021.
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Subarea/Division	Country	Type of Survey	Dates
Stratified-Random Surveys			
3LNO*	EU-ESP	Groundfish	May-Aug
3M*	EU-ESP+PRT	Groundfish	Jun-Jul
6ABC	USA	Spring bottom trawl	Mar. 2- May 19
5Z+6ABC	USA	Sea scallop survey	Jul. 6- Aug. 8
4X+5Ze	USA	Mesopelagic Exploration	Jul. 24 – Aug. 8
5Z+6A	USA	Ecosystem Monitoring	Jul. 16- 30
5Z+6AB	USA	Surfclam & ocean quahog	Aug. 17- Sep. 4
4X+5YZ+6ABC	USA	Autumn bottom trawl	Sep. 8 – Nov. 13
4X+5YZ+6ABC	USA	Ecosystems monitoring	Oct 21.– Nov. 9
5X	USA	Gulf of Maine Longline	Oct.21 – Nov. 11
Other Surveys			
4X, 5YZ	USA	North Atlantic Right Whale	Jul. 15- Aug. 4
4X+5YZ+6ABC	USA	Cetacean Biology	Aug. 6 - 21

*Due to the problems caused by the COVID-19 pandemic, the planned survey schedule for 2020 may be altered.