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SCIENTIFIC COUNCIL MEETING – September 2018**Available Data from the Commercial Fisheries Related to Stock Assessment (2017) and Inventory of Biological Surveys Conducted in the NAFO Area in 2017 and Biological Surveys Planned for 2018 and Early-2019**

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 2018 Scientific Council Meeting and have been updated/corrected through correspondence.



Available data from the commercial fisheries related to stock assessment (2017). (+ means data available).

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

3NO Witch flounder	CAN	+		+	+		+	
	EU/PRT	+		+	+		+	
	EU/ESP	+		+	+		+	
	EU/EST	+						
	RUS	+			+			
	USA	+						
	JPN	+						
2J3KL Witch flounder	CAN	+			+			
	EU/PRT	+						
	EU/ESP	+	+		+			
	EU/EST	+						
	JPN	+						
	RUS	+						
3LNO Yellowtail flounder	CAN	+			+		+	
	EU/PRT	+			+			
	EU/ESP	+	+		+		+	
	RUS	+						
	EU/EST	+			+			
	JPN	+			+			
	USA	+						
SA 0 + 1B-F Greenland halibut	RUS	+	+		+			
	GRL	+	+		+			
	NOR	+			+			
	CAN	+	+		+			
SA 1A Greenland halibut	GRL	+	+		+			
SA 2+3 Greenland halibut	CAN	+	+		+			
	EU/PRT	+	+		+		+	
	EU/ESP	+	+	+	+	+		
	EU/EST	+		+	+	+	+	
	RUS	+	+	+	+	+		
	JPN	+						
	FRO	+						
	USA	+						
SA 2+3 Roundnose grenadier	EU/ESP	+						
	RUS	+			+			
	EU/PRT	+						
	JPN	+						
	FRO	+						
SA 2+3 Roughhead grenadier	EU/ESP	+		+	+	+	+	
	EU/EST	+						
	EU/PRT	+		+	+			
	RUS	+		+	+			
	CAN	+						
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 Other finfish	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	+	+					
	GBR	+	+					
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 2017.

Subarea/Division	Country	Stratified Random Surveys		No. of sets
		Month(s)	Type of survey	
0A	Can-CA	10-11	Groundfish Assessment	74
1A	GRL	7	Disko Bay gill net survey	36
1A	GRL	7-8	Uummannaq gill net survey	48
1A	GRL	8	Upernavik gill net survey	41
1A-F	GRL	6-8	Greenland shrimp fish bottom trawl survey	213
1CD	GRL	10	Greenland deep sea bottom trawl survey	53
1D	GRL	10	Trawl survey Nuuk fiord	22
2+3HJ+KLMNO	CAN-N	10-12-4/2018	Multi-species trawl survey	621
3L	EU-ESP	7	Groundfish	57
3L	EU-ESP	8	Groundfish	46
3LNO	CAN-N	5-6	Multi-species trawl survey	171
3M	EU-ESP+PRT	6	Groundfish	99
3M	EU-ESP+PRT	7	Groundfish	85
3NO	EU-ESP	5	Groundfish	57
3NO	EU-ESP	6	Groundfish	57
3P	CAN-N	4-5	Multi-species trawl survey	179
4X, 4Y	USA	4, 5	Spring Multi-species Bottom Trawl Survey	17
4X, 4Y	USA	4, 5	Spring Multi-species Bottom Trawl Survey	7
4X, 4Y	USA	2,4,5,6,7,11	Ecosystems Monitoring Survey	33
4X, 4Y	USA	10	Autumn Multi-species Bottom Trawl Survey	3
4X	USA	10, 11	Autumn Multi-species Bottom Trawl Survey	10
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
5 Ze	USA	4, 5, 6	Line transect surveys from NOAA Twin Otter	0
5 Zw	USA	1, 3, 4, 6	Line transect surveys from NOAA Twin Otter	0
5Zw,	USA	8	Surfclam & Ocean Quahog Dredge Survey	12
5Y,Ze,Zw	USA	4,5	Spring Multi-species Bottom Trawl Survey	62
5Y,Ze,Zw	USA	2-7, 11	Ecosystems Monitoring Survey & Tuna Slop	290
5Y,Ze,Zw	USA	10,11	Autumn Bottom Trawl Survey	54
5Y	USA	4,5	Spring Multi-species Bottom Trawl Survey	62
5Y	USA	10, 11	Autumn Multi-species Bottom Trawl Survey	54
5Y	USA	7,8	Northern Shrimp Survey	72
5Ze	USA	10, 11	Autumn Multi-species Bottom Trawl Survey	79
5Y	USA	4, 5, 10, 11	Gulf of Maine Cooperative Bottom Longline Survey	76
5Z	USA	4, 5, 10, 11	Gulf of Maine Cooperative Bottom Longline Survey	14
5Z	USA	5,6	Sea Scallop Dredge Survey	126
5Zw	USA	8	Surfclam & Ocean Quahog Dredge Survey	12
6A	USA	1	Line transect surveys from NOAA Twin Otter	0
6A	USA	3, 4	Spring Multi-species Bottom Trawl Survey	63
6B	USA	3	Spring Multi-species Bottom Trawl Survey	52
6B	USA	9	Autumn Multi-species Bottom Trawl Survey	53
6C	USA	3	Spring Multi-species Bottom Trawl Survey	32
6A, 6B, 6C	USA	5	Sea Scallop Dredge Survey	2
6A, 6B, 6C	USA	3, 4	Spring Bottom Trawl Survey	32
6A, 6B, 6C	USA	2-7, 11	Ecosystems Monitoring Survey	249

Other Surveys

Subarea/Division	Country	Month(s)	Type of Survey	No. of sets
2 HJ +3+PsKLMNO	CAN-N	4,5,7	Physical and biological oceanographic survey	n/a
3KL	CAN-N	5	Capelin acoustic/trawl survey	n/a
3Ps	CAN-N	5-6	Fortune Bay Snow crab trawl/trap survey	27
3KLPS	CAN-N	4, 5, 7, 10	Cod tagging/telemetry	n/a
3LMNO	CAN-N	7	Physical and biological oceanographic survey	n/a
3L	CAN-N	7, 8	Bonavista/Trinity Bay snow crab trap survey	68
3L	CAN-N	6	St. Mary's Bay crab trap survey	25
3Ps	CAN-N	8, 9	Shellfish survey	102
3Ps	CAN-N	10, 11	Physical and biological oceanographic survey	n/a
3K	CAN-N	8, 9	White/ Notre Dame Bay Snow Crab Survey	70
3L	CAN-N	9-10	Conception Bay snow crab trawl/trap survey	36
3L	CAN-N	8-9	Trinity Bay Ecosystem Survey	n/a
4X, 4Y	USA	6	AMAPPS - Cetacean and turtle biology	2
4, 5X, Ze, Y	USA	6	Deep Sea Coral	11
5,6 a, Ze, Zw	USA	6, 7	AMAPPS - Cetacean biology	0
5Z	USA	5, 6	Sea Scallop Stereo-Optic Camera Transect Survey	832km
5Z	USA	8	Twin Trawl Sweep Efficiency	80
5Y	USA	8	Twin Trawl Sweep Efficiency	21
6A	USA	8	Twin Trawl Sweep Efficiency	4
6A, 6B, 6C	USA	5	Sea Scallop Stereo-Optic Camera Transect Survey	3168km
5Z, W, E	USA	5, 6	Marine Mammal	0
5Z,5Y,4X,4W,4VN, 4T, 5zW, 5zE	USA	1 -12	Right whale aerial surveys: Marine mammal distribution	0
6C	USA	9	Deep Sea Coral	7
6D	USA	6	Tune Slope Survey	26

Biological surveys planned for the NAFO Area in 2018 and early-2019.

Subarea/Division	Country	Type of Survey	Dates
Stratified-Random Surveys			
1A	GRL	Disko Bay gill net survey	Jul-Aug
1A	GRL	Uummannaq gill net survey	Jul- Aug
1A	GRL	Upernavik gill net survey	Aug
1A-D	GRL	Greenland shrimp fish bottom trawl survey	Jun
1D	GRL	Trawl survey Nuuk fiord	Sep
2HJ +3KLMNO	CAN-N	Multi-species trawl survey	Oct 5- Dec 19
3KLNO	CAN-N	Multi-species trawl survey	Sep 12-Dec 1
3LNOPs	CAN-N	Multi-species trawl survey	Mar 31-Jun 17
3LNO	EU-ESP	Groundfish	May-Aug
3M	EU-ESP+PRT	Groundfish	Jun-Jul
3Ps	CAN-N	Multi-species trawl survey	Mar 28 2019
4X +5YZ+6AB	USA	Spring bottom trawl	Mar 5- May 14
5YZ	USA	Ecosystems Monitoring	Feb 10 – 23(cancelled)
4X+ 5YZ+ 6ABC	USA	Ecosystems monitoring	May 23- Jun 7
5Y	USA	Gulf of Maine Longline	Apr 26 – May 15
5Z+6ABC	USA	Sea scallop	May 16– Jun 20
5YZ	USA	Northern shrimp	Jul 15- Aug 10
4X+5Ze	USA	Mesopelagic Exploration	Aug 11 - 20
5Z+6AB	USA	Surfclam & ocean quahog	Aug 6- 24
5Z+6A	USA	Ecosystem Monitoring	Aug 7- 22
4X+5YZ+6ABC	USA	Autumn bottom trawl	Sep 4 – Nov 12
4X+5YZ+6ABC	USA	Ecosystems monitoring & Sm. Pelagics Acoustic Survey	Oct 24– Nov 9
5X	USA	Gulf of Maine Longline	Oct 21 – Nov 11
Other Surveys			
3K	CAN-N	White/Notre Dame Snow crab survey	Aug 26- Sep 17
3KL	CAN-N	Capelin survey	May 2- 22
3KLMNO	CAN-N	Physical and biological oceanographic survey	Apr 3- 24 May 7 - 21
3KLPs	CAN-N	Cod tagging	Apr 24- May 1 July 4 – 17 Oct 16 - 26
3L	CAN-N	Saint Mary's Bay Snow crab survey	Jun 9- 15
3L	CAN-N	Bonavista/Trinity Bay Snow crab survey	Jul 24 – Aug 10
3L	CAN-N	Conception Bay snow crab survey	Sept 29- Oct 10
3L	CAN-N	Trinity Bay ecosystem survey	Aug 14-22 Sep 20- 27
3LMNO	CAN-N	Physical and biological oceanographic survey	Jul 8- 29
3Ps	CAN-N	Fortune Day Snow crab survey	May 26-Jun 5
3Ps	CAN-N	Shellfish survey	Aug 30 – Sep 11
4X+5YZ+6ABC	USA	Cetacean Biology	Jun 30 –Aug 3