

**SCIENTIFIC COUNCIL MEETING – September 2017****Available Data from the Commercial Fisheries Related to Stock Assessment (2016) and Inventory of Biological Surveys Conducted in the NAFO Area in 2016 and Biological Surveys Planned for 2017 and Early-2018**

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 2017 Scientific Council Meeting and have been updated/corrected through correspondence.



Available data from the commercial fisheries related to stock assessment (2016). (+ means data available, * means 2016 data).

Biological Sampling								
Stock	Country ¹	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
3M Cod	EU/PRT	+			+	+	+	
	EU/ESP	+		+	+	+	+	+
	EU/EST	+		+	+		+	+
	EU/UK	+			+			
	FRO	+			+			
	NOR	+						
	RUS	+			+			
	CUB	+						
	USA	+						
3NO Cod	CAN	+	+	+	+	+	+	+
	EU/ESP	+	+	+	+	+	+	
	EU/PRT	+	+		+		+	
	EU/EST	+			+		+	
	USA	+						
	RUS	+			+			
	FRO	+						
	JPN	+						
SA 1 Redfish	GRL	+						
3M Redfish²	CUB	+						
	RUS	+		+	+			
	EU/ESP	+		+	+			
	EU/EST	+		+	+			
	EU/PRT	+		+	+			
	FRO	+					+	
3LN Redfish²	EU/PRT	+	+	+	+		+	
	EU/ESP	+		+	+			
	RUS	+		+	+			
	EU/EST	+		+	+			
	FRO	+						
	CAN	+						
	CUB	+						
	FRA-SP	+						
	USA	+						
3O Redfish	CAN	+	+	+	+	+	+	
	EU/PRT	+	+	+	+			
	EU/ESP	+	+	+	+			
	RUS	+	+	+	+			
	EST	+	+					
	JPN	+						
3M American plaice	EU/PRT	+			+			
	EU/GRB	+						
	EU/EST	+						
	EU/ESP	+			+			
	RUS	+			+			
	CUB							
	USA							
3LNO American plaice	CAN	+		+	+	+	+	+
	CUB							
	EU/ESP	+		+	+			
	EU/EST	+						
	EU/LIT							
	EU/PRT	+			+			



	FRA (SPM)	+						
	RUS	+			+			
	USA	+			+			
3NO Witch flounder	CAN	+	+	+	+		+	
	EU/LTU							
	EU/PRT	+		+	+		+	
	EU/ESP	+		+	+		+	
	EU/EST	+			+			
	RUS	+			+			
	USA	+						
2J3KL Witch flounder	CAN	+			+			
	EU/PRT	+			+			
	EU/ESP	+			+			
	EU/EST	+						
	JPN	+						
	RUS	+						
3LNO Yellowtail flounder	CAN	+			+		+	
	EU/PRT	+						
	EU/ESP	+			+		+	
	RUS	+						
	EU/EST	+						
	FRA-SP	+						
	JPN	+						
SA 0 + 1B-F Greenland halibut	RUS	+	+	+	+	+		
	GRL	+	+		+			
	EU/GER	+						
	NOR	+			+			
	CAN	+	+		+			
SA 1A Greenland halibut	GRL	+	+	+	+		+	+
SA 2+3 Greenland halibut	CAN	+	+		+	+		
	EU/PRT	+	+		+			+
	EU/ESP	+	+	+	+	+		
	EU/EST	+		+	+	+		+
	RUS	+	+	+	+	+		
	JPN	+						
	USA	+						
	FRO	+						
SA 0+1 Roundnose Grenadier	EU/ESP	+						
	RUS	+						
	JPN	+						
	FRO	+						
SA 2+3 Roughhead grenadier	EU/ESP	+		+	+	+		+
	EU/EST	+						
	EU/PRT	+		+	+			
	RUS	+		+	+			
	JPN	+						
	USA	+						
3NO Capelin	NO AVAILABLE DATA							
SA 3+4 Squid	CAN	+						
SA 6 Alfonsino	EU/ESP	+						

Stock	Country¹	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 Shrimp	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	+	+ ³					
	GRL	+	+					
	DNK	+	+					

1 Country abbreviations NAFO 3-Alpha.

2 2016 Data

3 No CPUE data available from the Canadian fleet since 2011

Inventory of biological surveys conducted in the NAFO Area in 2016.

Subarea/Division	Country	Month(s)	Stratified Random Surveys	No. of sets
			Type of survey	
0A	Can-CA	10-11	Groundfish Assessment	76
0B	Can-CA	10-11	Groundfish Assess,emt	81
1A	GRL	7	Disko Bay gill net survey	52
1A	GRL	7-8	Uummannaq gill net survey	49
1A	GRL	8	Upernivik gill net survey	47
1A-F	GRL	6-8	Greenland shrimp fish bottom trawl survey	913
1CD	GRL	8-9	Greenland deep sea bottom trawl survey	70
2+3HJ+KLMNO	CAN-N	10-12-1/2016	Multi-species trawl survey	617
3L	EU-ESP	7	Groundfish	16
3L	EU-ESP	8	Groundfish	89
3LNO	CAN-N	5-6	Multi-species trawl survey	293
3M	EU-ESP+PRT	6	Groundfish	42
3M	EU-ESP+PRT	7	Groundfish	139
3NO	EU-ESP	5	Groundfish	8
3NO	EU-ESP	6	Groundfish	108
3P	CAN-N	4-5	Multi-species trawl survey	157
4X	USA	5	Spring Bottom Trawl Survey	20
4X, 4Y	USA	5, 10	Ecosystems Monitoring Survey & Tuna Slop	9
4X	USA	10, 11	Autumn Bottom Trawl 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
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	175
5Y, Ze, Zw	USA	4,5	Spring Bottom Trawl Survey	56
5Y, Ze, Zw	USA	5,6,10	Ecosystems Monitoring Survey & Tuna Slop	137
5Y, Ze, Zw	USA	9,10,11	Autumn Bottom Trawl Survey	80
5Y	USA	5	Spring Bottom Trawl Survey	74
5Y	USA	10, 11	Autumn Bottom Trawl Survey	61
5Y	USA	7,8	Northern Shrimp Survey	68
5Ze	USA	4,5	Spring Bottom Trawl Survey	102
5Ze	USA	10, 11	Autumn Bottom Trawl Survey	159
5Zw	USA	4	Spring Bottom Trawl Survey	35
5Zw	USA	9, 10, 11	Autumn Bottom Trawl Survey	146
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	9
5Z	USA	5,6	Sea Scallop Dredge Survey	150
5Zw	USA	8	Surfclam & Ocean Quahog Dredge Survey	12
6A	USA	1	Line transect surveys from NOAA Twin Otter	0
6A	USA	4,5	Spring Bottom Trawl Survey	56
6A	USA	9,10	Autumn Bottom Trawl Survey	57
6B	USA	4	Spring Bottom Trawl Survey	47
6B	USA	9	Autumn Bottom Trawl Survey	52
6C	USA	9	Autumn Bottom Trawl Survey	34
6A, 6B, 6C	USA	4, 6, 7, 8, 9	Ecosystems Monitoring Survey & Tuna Slop	75
6A, 6B, 6C	USA	3, 4	Spring Bottom Trawl Survey	38
6A, 6B, 6C	USA	5, 10	Ecosystems Monitoring Survey	75
6A, 6B, 6C	USA	9	Autumn Bottom Trawl Survey	43



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	37
3PsKLP	CAN-N	5,6, 7, 10	Cod tagging/telemetry	n/a
3LMNO	CAN-N	7	Physical and biological oceanographic survey	n/a
3L	CAN-N	8	Bonavista/Trinity Bay snow crab trap survey	40
3L	CAN-N	6	St. Mary's Bay crab trap survey	26
3Ps	CAN-N	9	Scallop survey	119
3K	CAN-N	9	White/ Notre Dame Bay Snow Crab Survey	48
3L	CAN-N	9-10	Conception Bay snow crab trawl/trap survey	33 (27 trap, 6 trawl)
3L	CAN-N	8-9	Trinity Bay Ecosystem Survey	n/a
4X, 4Y	USA	6	AMAPPS - Cetacean and turtle biology	2
5Y,Ze,Zw	USA	6, 7	AMAPPS - Cetacean and turtle biology	22
5Z	USA	5, 6	Sea Scallop Stereo-Optic Camera Transect Survey	4,200km
5Z	USA	8	Twin Trawl Sweep Efficiency	65
5Y	USA	8	Twin Trawl Sweep Efficiency	60
6A, 6B, 6C	USA	5	Sea Scallop Stereo-Optic Camera Transect Survey	1,600km
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	8	Deep Sea Coral	3
6A, 6B, 6C	USA	4, 5, 6, 7, 8, 10	Ecosystems Monitoring & Tuna Slop	100

Biological surveys planned for the NAFO Area in 2017 and early-2018.			
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Subarea/Division	Country	Type of Survey	Dates
Stratified-Random Surveys			
1A	GRL	Disko Bay gill net survey	Jul
1A	GRL	Uummannaq gill net survey	Jul- Aug
1A	GRL	Upernivik gill net survey	Aug
1A-F	GRL	Greenland shrimp fish bottom trawl survey	Jun- Aug
1CD	GRL	Greenland deep sea bottom trawl survey	Sep
2HJ +3KLMNO	CAN-N	Multi-species trawl survey	Oct 5- Dec 20
3KLNO	CAN-N	Multi-species trawl survey	Sep 13-Dec 2
3LNOPs	CAN-N	Multi-species trawl survey	Mar 28-Jun 20
3LNO	EU-ESP	Groundfish	May-Aug
3M	EU-ESP+PRT	Groundfish	Jun-Jul
3Ps	CAN-N	Multi-species trawl survey	Mar 31, 2018
4X +5YZ+6AB	USA	Spring bottom trawl	Mar 6- May 14
5YZ	USA	Ecosystems Monitoring	Feb 10 - 23
4X+ 5YZ+ 6ABC	USA	Ecosystems monitoring	May 16- Jun 7
5Y	USA	Gulf of Maine Longline	Apr 26 – May 15
5Z+6ABC	USA	Sea scallop	May 16- Jun 24
5YZ	USA	Northern shrimp	Jul 17- Aug 12
4X+5YZ+6A	USA	Tuna Slop Survey	Jun 10-27
5Z+6AB	USA	Surfclam & ocean quahog	Aug 1- 19
5Z+6A	USA	Ecosystem Monitoring	Aug 14-24
4X+5YZ+6ABC	USA	Autumn bottom trawl	Sep 5 – Nov 13
4X+5YZ+6ABC	USA	Ecosystems monitoring & Sm. Pelagics Acoustic Survey	Oct 18 – Nov 10
5X	USA	Gulf of Maine Longline	Oct 20 – Nov 10
Other Surveys			
3K	CAN-N	Snow crab trap survey	Aug 26- Sep 15
3KL	CAN-N	Capelin survey	May 2- 23
3KLMNO	CAN-N	Physical and biological oceanographic survey	Apr 4- 25
3KLPs	CAN-N	Cod tagging	Apr 25- May 1 July 6 – 18 Oct 16 - 25
3L	CAN-N	Snow crab survey	Jun 9- 15
3L	CAN-N	Bonavista Snow crab survey	Jul 24 – Aug 11
3L	CAN-N	Conception Bay snow crab survey	Sept 27- Oct 7
3L	CAN-N	Trinity Bay ecosystem survey	Aug 15-22 Sep 18 - 25
3LMNO	CAN-N	Physical and biological oceanographic survey	Jul 8- 29
3Ps	CAN-N	Snow crab survey	May 29-Jun 6
3Ps	CAN-N	Shellfish survey	Aug 31 – Sep 12
4X+5YZ+6ABC	USA	Cetacean & Turtle	Jul 6 –Aug 9
5YZ	USA	Deepwater Coral Habitat	Jun 8 - 22