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SCIENTIFIC COUNCIL MEETING – SEPTEMBER 2008

Available Data from the Commercial Fisheries Related to Stock Assessment (2009)

and

Inventory of Biological Surveys Conducted in the NAFO Area in 2009

and

Biological Surveys Planned for 2010 and Early-2011

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 2010 Scientific Council Meeting and have been updated/corrected through correspondence.

Available data from the commercial fisheries related to stock assessment (2009). (+ means data available).

Stock	Biological Sampling							
	Country ¹	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
3M Cod	EU/PRT	+			+		+	
	EU/ESP	+						
	EU/EST	+			+			
	FRA-SP	+						
	JAP	+						
	RUS	+						
3NO Cod	CAN	+			+	+		
	EU/ESP	+			+			
	EU/PRT	+			+			
	EU/EST	+						
	FRO	+						
	RUS	+			+			
SA 1 Redfish	GRL	+						
3M Redfish	EU/PRT	+	+	+	+		+	
	EU/ESP	+		+	+			
	EU/EST	+						
	EU/LVA	+						
	FRO	+						
	JPN	+						
	RUS	+		+	+			
	CUBA	+						
3LN Redfish	CAN(N)	+						
	EU/PRT	+		+	+			
	EU/ESP	+		+	+			
	EU/EST	+						
	RUS	+		+	+			
3O Redfish	CAN	+	+	+	+			
	EU/PRT	+	+		+			
	EU/ESP	+	+		+			
	EU/EST	+		+	+			
	RUS	+			+			
3M American plaice	EU/PRT	+			+			
	EU/ESP	+						
	EU/EST	+						
	RUS	+						
3LNO American plaice	CAN	+		+	+	+		
	EU/ESP	+			+			
	EU/EST	+						
	EU/PRT	+			+			
	FRA (SP)	+						
	FRO	+						
	RUS	+						
3NO Witch flounder	CAN	+			+			
	EU/ESP	+		+	+			
	EU/EST	+						
	EU/PRT	+			+			
	RUS	+			+			
2J+3KL Witch flounder	CAN	+			+			
	EU/PRT	+			+			
	EU/ESP	+						
	EU/EST	+						
	RUS				+			

Available data from the commercial fisheries related to stock assessment (2009). (+ means data available). (continued).

Stock	Biological Sampling							
	Country ¹	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
3LNO Yellowtail flounder	CAN	+			+			
	EU/PRT	+			+			
	EU/ESP	+			+			
	FRA(SP)	+						
	RUS	+						
SA 0 + 1B-F Greenland halibut	CAN	+	+		+			
	GRL	+	+		+			
	FRO	+						
	EU/DEU	+	+					
	NOR	+			+			
	RUS	+	+	+	+	+	+	
SA 1A Greenland halibut	GRL	+	+	+	+	+	+	
SA 2+3 Greenland halibut	CAN	+	+	+	+	+		
	EU/PRT	+	+	+	+			
	EU/ESP	+	+	+	+	+		
	EU/EST	+						
	FRA(SP)	+						
	FRO	+						
	RUS	+	+	+	+	+		
SA 0+1 Roundnose Grenadier	NOR	+						
	EU/DEU	+						
SA 2+3 Roundnose grenadier	EU/PRT	+						
	EU/ESP	+						
	RUS	+						
SA 2+3 Roughhead grenadier	CAN	+						
	EU/PRT	+		+	+			
	EU/ESP	+		+	+	+	+	
	EU/EST	+						
	RUS	+		+	+			
3NO Capelin	No available data							
SA 3+4 Squid	CAN	+						
SA 1 Other finfish	GRL	+						
3NOPs White hake	CAN	+			+			
	EU/PRT	+			+			
	EU/ESP	+						
	RUS	+			+			
3LNOPs Thorny skate	CAN	+		+	+			
	EU/PRT	+			+			
	EU/ESP	+		+	+			
	RUS	+			+			

Available data from the commercial fisheries related to stock assessment (2009). (+ means data available). (continued).

Stock	Biological Sampling							
	Country ¹	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
3M Shrimp	EU-EST	+	+	+	+			+
	EU/ESP	+	+	+	+			
	EU/LVA	+						
	EU/LTU	+						
	RUS	+						
	NOR	+						
	CUB	+						
	FRO	+						
3LNO Shrimp	CAN-N	+	+	+	+	+	+	+
	GRL	+	+					
	NOR	+	+	+	+			+
	EU/EST	+	+					
	EU/ESP	+	+					
Denmark Strait Shrimp	GRL	+	+					
	FRO	+	+					
	NOR	+	+					
	DNK	+	+					
SA 0+1 Shrimp	GRL	+	+					
	DNK	+	+					

¹ Country abbreviations NAFO 3-Alpha.

Inventory of biological surveys conducted in the NAFO Area in 2009.

Subarea/Division	Country	Month	Type of survey	No. of sets
Stratified Random Surveys				
2+3HJ+KLMNO	CAN-N	10-12	Multi-species trawl survey	586
3L	EU/ESP	7	Groundfish	36
3L	EU/ESP	8	Groundfish	67
3L	EU/ESP	8	Groundfish	33
(inside Canadian ZEE)				
3L,3M	EU/ESP+UK; CAN; RUS	{ 6 7 8	Invertebrates Invertebrates Invertebrates	81 74 74
3LNO	CAN-N	5-6	Multi-species trawl survey	299
3NO	EU/ESP	5	Groundfish	2
3NO	EU/SPAIN	6	Groundfish	109
3M	EU/ESP+UK; CAN; RUS	5	Invertebrates	11
3Ps	CAN-N	4-5	Multi-species trawl survey	190
3P+4V	CAN-N	9	Redfish trawl survey (DFO/Industry)	117
4X	USA	2	Ecosystems monitoring survey	12
4X	USA	4, 5	Ecosystems monitoring survey	8
4X	USA	4, 5	Spring bottom trawl survey	26
4X	USA	4, 5	Spring bottom trawl survey	26
4X	USA	6	Ecosystems monitoring survey	16
4X	USA	8	Ecosystems monitoring survey	9
4X	USA	10	Autumn bottom trawl survey	25
4X	USA	11	Ecosystems monitoring survey	8
4X	USA	11	Ecosystems monitoring survey	9
5YZ	USA	1, 2	Ecosystems monitoring survey	66
5YZ	USA	3, 4, 5	Ecosystems monitoring survey	66
5YZ	USA	4, 5, 6	Spring bottom trawl survey	248
5YZ	USA	5, 6	Ecosystems monitoring survey	61
5Z	USA	7, 8	Sea scallop survey	245
5YZ	USA	7, 8	Northern shrimp bottom trawl survey	88
5Y Z	USA	8	Ecosystems monitoring survey	47
5YZ	USA	10, 11	Autumn bottom trawl survey	206
5Y Z	USA	10, 11	Ecosystems monitoring survey	51
5Y Z	USA	11	Ecosystems monitoring survey	52
6ABC	USA	1, 2	Ecosystems monitoring survey	45
6ABC	USA	3	Spring bottom trawl survey	162
6ABC	USA	3, 4	Ecosystems monitoring survey	43
6ABC	USA	5, 6	Ecosystems monitoring survey	47
6ABC	USA	6, 7	Sea scallop survey	206
6ABC	USA	8	Ecosystems monitoring survey	44
6ABC	USA	9, 10	Autumn bottom trawl survey	150
6ABC	USA	9, 10	Ecosystems monitoring survey	46
6ABC	USA	11	Ecosystems monitoring survey	42

Subarea/Division	Country	Month	Type of survey	No. of sets
Other Surveys				
3LMNO	CAN-N	4-5	Physical and biological oceanographic survey	n/a
3KL	CAN-N	5-6	Capelin acoustic/rawl survey	n/a
3Ps	CAN-N	5-6	Snow crab survey	31
3KLP	CAN-N	6, 7, 11	Cod tagging/telemetry	n/a
3LMNO	CAN-N	7	Physical and biological oceanographic survey	n/a
3L	CAN-N	8	Bonavista Bay snow crab trap/rawl survey	n/a
3Ps	CAN-N	8-9	Scallop survey	148
3K	CAN-N	9	Snow Crab Survey	24
1 F +2 GH +3 K	CAN-N	9	Salmon survey	21
3L	CAN-N	9-10	Conception Bay snow crab trap/rawl survey	n/a
3L	CAN-N	9-11	Trinity Bay Ecosystem Survey	n/a
3L	CAN-N	11	Juvenile Atlantic Cod Survey (Bonavista Bay and Trinity Bay)	30
2 J +3 KLMNO	CAN-N	11-12	Oceanography	n/a
4X	USA	3	Oceanographic moorings	2
4X	USA	6, 7	North Atlantic right whale biology & survey	N/A
5YZ	USA	1-8, 10-12	North Atlantic right whale aerial surveys	N/A
5YZ	USA	1-12	Passive acoustics/marine mammal habitat survey	N/A
5YZ	USA	1-4, 10-12	Aerial seal pup survey	N/A
5Y	USA	3	Oceanographic moorings	7
5YZ	USA	6, 7	North Atlantic right whale biology & survey	N/A
5YZ	USA	6, 7	North Atlantic right whale biology & survey	N/A
5Y	USA	7	Baleen whale acoustic ecology & habitat survey	N/A
5Z	USA	8	Benthic habitat (video transects)	128
5YZ	USA	8	Mammal abundance survey	N/A
5Z	USA	8	Sea turtle distribution aerial survey	N/A
5YZ	USA	9, 10	Pelagic hydroacoustic survey	72
6ABC	USA	1	Academic studies	46
6C	USA	5	Coastal Shark Longline Survey	3
6ABC	USA	8	Aerial marine mammal abundance survey	N/A
6BC	USA	8	Marine mammal abundance survey	N/A
6A	USA	8, 9	Habitat mapping (AUV deployments)	3

Biological surveys planned for the NAFO Area in 2010 and early-2011.

Subarea/Division	Country	Type of Survey	Dates
Stratified-Random Surveys			
2 HJ +3 KLMNO	CAN-N	Multi-species trawl survey	Sept 23-Dec 21
3K	CAN-N	Bitter Crab Disease Investigations	Jan-Feb
3LNO	EU/ESP	Groundfish	May-Aug
3LNOPs	CAN-N	Multi-species trawl survey	April 7-June 19
3LNOPs	CAN-N	Multi-species trawl survey	Mar 28-31 2011
3M	EU/ESP+PRT	Groundfish	Jun-Jul
3M,N	EU/ESP+UK; CAN-N; RUS	Invertebrates	Jun-Aug
4X+5YZ	USA	Ecosystems monitoring	Feb 1 - 18, 2010
4X+5YZ+6ABC	USA	Spring bottom trawl	Mar 1 – May 13, 2010
4X+5YZ+6ABC	USA	Ecosystems monitoring	May 26 - Jun 10, 2010
4X+5YZ_6ABC	USA	Ecosystems monitoring	Aug 16 – Sep 1, 2010
5Z+6ABC	USA	Sea scallop	May 17 – Jul 9, 2010
5Y,Z	USA	Northern shrimp	Jul 19 - Aug 13, 2010
4X+5YZ+6ABC	USA	Autumn bottom trawl	Sep 7 – Nov 18, 2010
4X+5YZ+6ABC	USA	Ecosystems monitoring	Nov 1 - 19, 2010
4X+5YZ+6ABC	USA	Ecosystems monitoring	Feb 2 - 20, 2011
4X+5YZ+6ABC	USA	Spring bottom trawl	Feb 28 – May 12, 2011
6B,C	USA	Coastal Shark Longline	Apr 4 – June 2, 2011
Other Surveys			
3LMNO	CAN-N	Physical and biological oceanographic survey	April 14-May 4
3KL	CAN-N	Capelin survey	May 8-27
3KLPS	CAN-N	Cod tagging	May 16-25
			June 30-July 9
			Nov 7-16
3Ps	CAN-N	Snow crab survey	May 28-June 12
3LNO	CAN-N	Hibernia environment monitoring	May 30-June 2
3LMNO	CAN-N	Physical and biological oceanographic survey	Jul 8-27
3L	CAN-N	Bonavista snow crab survey	Aug 2-14
3L	CAN-N	Trinity Bay ecosystem survey	Aug 20-27
			Sept 17-24
			Oct 9-17
3K	CAN-N	Snow crab trap survey	Aug 30-Sept 14
3Ps	CAN-N	Scallop survey	Sept 10-20
3L	CAN-N	Conception Bay snow crab survey	Sept 26-Oct 8
3L	CAN-N	Juvenile Atlantic cod survey	Nov 17-26
3L	CAN-N	Bitter crab disease investigation	Feb 1-7/11
3O, 3M	RUS	Redfishes, selectivity of trawl	March-September 2010
3LMNO	RUS	Multispecial trawl-acoustic survey	May-June 2010
5Z+6ABC	USA	Academic projects	Feb 23 – Mar 4, 2010
4X+5YZ	USA	N. right whale	May 3 – 21, 2010
4X+5Z+6ABCD	USA	Cetacean, seabird, turtle abundance	Jun 1 – Aug 6, 2010
5Z	USA	Benthic habitat	Jun 14 – 25, 2010
5Zw+6A	USA	Habitat mapping	Aug 17 – 27, 2010
5Y,Z	USA	Atlantic herring hydroacoustic	Sep 8 - Oct 15, 2010
5Z+6A	USA	Benthic habitat	Oct 18 - 29, 2010
5Z+6ABC	USA	Academic projects	Jan 18 - 28, 2011
5YZ+6ABC	USA	Ecosystems Research	Mar 14 - 25, 2011
4X+5YZ	USA	NECROOS mooring maintenance	Apr 20 – 26, 2011
4X+5YZ	USA	N. right whale survey	Apr 29 – May 26, 2011