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SCIENTIFIC COUNCIL MEETING – SEPTEMBER 2008

Available Data from the Commercial Fisheries Related to Stock Assessment (2008)

and

Inventory of Biological Surveys Conducted in the NAFO Area in 2008

and

Biological Surveys Planned for 2009 and Early-2010

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 2009 Scientific Council Meeting and have been updated/corrected through correspondence.

Available data from the commercial fisheries related to stock assessment (2008). (+ 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	+						
	FRA (SP)	+						
	RUS	+			+			
SA 1 Redfish	GRL	+						
3M Redfish	EU/PRT	+		+	+			
	EU/ESP	+						
	EU/EST	+		+	+			
	RUS	+			+			
3LN Redfish	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	+			+			
	JPN	+						
	RUS	+			+			
3NO Witch flounder	CAN	+			+			
	EU/ESP	+			+			
	EU/EST	+						
	EU/PRT	+			+			
	FRA (SP)	+						
	JPN	+						
2J+3KL Witch flounder	RUS	+			+			
	CAN	+			+			
	EU/PRT	+						
	EU/ESP	+						
	EU/EST	+						
	JAP	+						
	RUS	+			+			

Available data from the commercial fisheries related to stock assessment (2008). (+ 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	+			+			
	EU/EST	+						
	EU/LTU	+						
	FRA(SP)	+						
	RUS	+			+			
SA 0 + 1B-F Greenland halibut	CAN	+	+		+			
	NOR	+	+		+			
	GRL	+	+		+			
	EU/DEU	+	+		+			
	RUS	+	+	+	+	+	+	+
SA 1A Greenland halibut	GRL	+		+	+	+	+	+
SA 2+3 Greenland halibut	CAN	+	+	+	+	+		
	EU/PRT	+	+	+	+			
	EU/ESP	+	+	+	+	+		
	EU/EST	+						
	FRA(SP)	+			+			
	FRO.	+						
	JAP	+						
	NOR	+						
SA 0+1 Roundnose Grenadier	RUS	+		+	+	+		
	NOR	+						
	EU/DEU	+						
	GRL	+						
SA 2+3 Roundnose grenadier	EU/PRT	+						
	EU/ESP	+						
SA 2+3 Roughhead grenadier	CAN	+						
	EU/PRT	+		+	+			
	EU/ESP	+		+	+	+	+	
	EU/EST	+						
	EU/LTU	+						
	JPN	+						
3NO Capelin	RUS	+		+	+			
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 (2008). (+ 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 2008.

Subarea/Division	Country	Month	Type of survey	No. of sets
Stratified Random Surveys				
0A	CAN-CA	10,11	Shrimp Assessment	75
0A	CAN-CA	10,11		
2,3JKLMNO	CAN-N	10-12	Multispecies survey	533
3L	EU-SPA	7	Groundfish	46
3L	EU-SPA	8	Groundfish	57
3L	EU-SPA	8	Groundfish (inside Canadian EEZ)	33
3LNO	CAN-N	5-6	Multispecies Survey	273
3NO	EU-SPA	5	Groundfish	32
3NO	EU-SPA	6	Groundfish	91
3M	EU-SPA+PRT	7	Groundfish	62
3L	EU-SPA+PRT	8	Groundfish	115
3LMN	EU (SPA+UK)+ CAN+RUS*+ USA* (* Provisional)		VME (Vulnerable Marine Ecosystem)	360 (Box corer and Rock Dredge)
3Ps	CAN-N	4-5	Multi-species trawl survey	169
4X	USA	2	Ecosystems monitoring survey	5
4X	USA	4	Ecosystems monitoring survey	6
4X	USA	4, 5	Spring bottom trawl survey	25
4X	USA	8	Ecosystems monitoring survey	7
4X	USA	10	Autumn bottom trawl survey	22
4X	USA	10	Ecosystems monitoring survey	7
4X	USA	11	Ecosystems monitoring survey	7
5Y, Z	USA	2	Ecosystems monitoring survey	49
5Z	USA	2	Ecosystems monitoring survey	33
5Y, Z	USA	3, 4	Ecosystems monitoring survey	67
5Y, Z	USA	4, 5, 6	Spring bottom trawl survey	164
5Y, Z	USA	5, 6	Ecosystems monitoring survey	55
5Z	USA	7, 8	Surfclam/ocean quahog survey	133
5Z	USA	7, 8	Sea scallop survey	217
5Y, Z	USA	7, 8	Northern shrimp bottom trawl survey	69
5Y, Z	USA	8	Ecosystems monitoring survey	78
5Y, Z	USA	10, 11	Autumn bottom trawl survey	155
5Y, Z	USA	10	Ecosystems monitoring survey	73
5Y, Z	USA	11	Ecosystems monitoring survey	68
6A, B, C	USA	3	Spring bottom trawl survey	155
6A, B, C	USA	3	Spring bottom trawl survey calibration study	261
6A, B, C	USA	3	Ecosystems monitoring survey	42
6A, B, C	USA	5, 6	Ecosystems monitoring survey	10
6A, B, C	USA	6, 7	Sea scallop survey	274
6A, B, C	USA	6, 7	Surfclam/ocean quahog survey	320
6A, B, C	USA	8	Ecosystems monitoring survey	56
6A, B, C	USA	9,10	Autumn bottom trawl survey	154
6A, B, C	USA	9,10	Autumn bottom trawl survey calibration study	143
6A, B, C	USA	9, 10	Ecosystems monitoring survey	63
6A, B, C	USA	11	Ecosystems monitoring survey	23

Subarea/Division	Country	Month	Type of survey	No. of sets
Other Surveys				
3K	CAN-N	6	Connectivity of marine fish	n/a
3K	CAN-N	2	Bitter crab disease investigations	n/a
3KL	CAN-N	5	Capelin acoustic/trawl survey	n/a
3KLNO	CAN-N	11-12	Oceanography	n/a
3KLP	CAN-N	6-7, 11	Cod tagging/telemetry	n/a
3L	CAN-N	7-8	Bonavista Bay snow crab trawl/trap survey	n/a
3L	CAN-N	9	Seabed classification	n/a
3L	CAN-N	9-10	Conception Bay snow crab trawl/trap survey	n/a
3L	CAN-N	9-11	Trinity Bay Ecosystem Survey	n/a
3LN	CAN-N	3	Acoustic survey of overwintering cod	n/a
3LNO	CAN-N	5-6	Hibernia environmental monitoring	n/a
3LMNO	CAN-N	4-5	Physical and biological oceanography	n/a
3LMNO	CAN-N	7	Physical and biological oceanography	n/a
4X	USA	4, 5	Spring bottom trawl survey calibration study	25
4X	USA	10	Autumn bottom trawl survey calibration study	22
5Y, Z	USA	1-7, 11-12	North Atlantic right whale aerial surveys	N/A
5Y, Z	USA	1-12	Passive acoustics/marine mammal habitat survey	N/A
5Y, Z	USA	1-4, 10-12	Aerial seal pup survey	N/A
5Z	USA	3	Deepwater biodiversity	10
5Y, Z	USA	4, 5, 6	Spring bottom trawl survey calibration study	338
5Z	USA	5	Sea scallop survey gear study	51
5Z	USA	7	Habitat mapping	4
5Z	USA	8	Benthic habitat	76
5Y, Z	USA	8	Coordinated ship & aerial marine mammal abundance survey	N/A
5Y, Z	USA	9, 10	Pelagic hydroacoustic survey	71
5Y, Z	USA	10, 11	Autumn bottom trawl survey calibration study	331
6A, B, C	USA	1	Academic studies	41
6A, B	USA	6, 7	Habitat mapping	145
6A	USA	8	Aerial marine mammal abundance survey	N/A
6A	USA	8	Habitat mapping	0

Biological surveys planned for the NAFO Area in 2009 and early-2010.

Subarea/Division	Country	Type of Survey	Dates
Stratified-Random Surveys			
2HJ+3KLMNO	CAN-N	Multi-species trawl survey	Oct 1– Dec 15
3L	EU-SPA	Groundfish (inside Canadian EEZ)	Aug
3L	EU-SPA	Groundfish	Jul - Aug
3LNOPs	CAN-N	Multi-species trawl survey	Apr 8 – Jun 16
3LMN	EU-SPA+EU-UK+ CAN+RUS*+USA* (* provisional)	VME (360 Box Corer and Rock dredge)	Jun, Jul, Aug
3M	EU-SPA+PRT	Groundfish	Jul
3NO	EU-SPA	Groundfish	May-Jun
4X+5YZ+6ABC	USA	Ecosystems monitoring	Jan 26 – Feb 13
4X+5YZ+6ABC	USA	Spring bottom trawl	Mar 1 – May 12
6BC	USA	Coastal Shark Longline	Apr 6 – May 20
4X+5YZ+6ABC	USA	Ecosystems monitoring	May 27 - Jun 10
4X+5YZ+6ABC	USA	Ecosystems monitoring	Aug 17 – Sep 3
5Z+6ABC	USA	Sea scallop	May 9 – Jul 3
5Y,Z	USA	Northern shrimp	Jul 20 - Aug 14
4X+5YZ+6ABC	USA	Autumn bottom trawl	Sep 8 – Nov 17
4X+5YZ+6ABC	USA	Ecosystems monitoring	Nov 2 - 20
4X+5YZ+6ABC	USA	Ecosystems monitoring	Feb 1 - 18, 2010
4X+5YZ+6ABC	USA	Spring bottom trawl	Mar 1 – May 12, 2010
Other Surveys			
1F+2HJ+ 3KLMNO	CAN-N	Salmon survey	Sep 7- 30
3L	CAN-N	Bitter Crab Disease Investigations	Feb 2-8, 2010
3KL	CAN-N	Capelin acoustic/trawl survey	May 12-Jun 2
3KLPS	CAN-N	Cod Tagging	Jun 6-15 Jul 6-16 Nov 7-16
3L	CAN-N	Trinity Bay Ecosystem Survey	Aug 25– Sep 1 Sep 22-29 Oct 13 -20
3L	CAN-N	Bonavista snow crab survey	Aug 1-13
3L	CAN-N	Conception Bay snow crab survey	Sep 30- Oct 12
3L	CAN-N	Juvenile Atlantic cod survey	Nov 18-27
3LNO	CAN-N	Hibernia Env. Monitoring	May 30 – Jun 2
3LMNO	CAN-N	Physical & biological oceanographic survey	Apr 15 – May 3
3LMNO	CAN-N	Physical & biological oceanographic survey	Jul 10- Jul 28
3Ps	CAN-N	Snow crab survey	May 20-Jun 4
3Ps	CAN-N	South coast aquaculture	Jun 18-24
3Ps	CAN-N	Scallop survey	Aug 27 – Sep 6
6A,B,C	USA	Academic projects	Jan 12 – 23, 2009
5Z, 6A	USA	Gear research	Feb 17 – 26, 2009
4X, 5YZ	USA	GoMOOS mooring maintenance	March 19 – 31, 2009
4X, 5YZ	USA	N. right whale biology	Jun 17 – Jul 9, 2009
5Y,Z	USA	Cetacean biology	Jul 13 – Jul 30, 2009
4X, 5Y, 6ABC	USA	Cetacean abundance	Aug 3 – 18, 2009
5Z, 6A	USA	Benthic habitat	Aug 3 - 14, 2009
6A	USA	Habitat mapping	Aug 21 – Sep 1, 2009
4X, 5YZ	USA	Atlantic herring hydroacoustic	Sep 9 - Oct 16, 2009
5Z, 6A	USA	Benthic habitat	Oct 19 - 30, 2009

Subarea/Division	Country	Type of Survey	Dates
5Z, 6ABC	USA	Academic projects	Feb 22 – Mar 5, 2010
5YZ, 6ABC	USA	Ecosystems Research	Mar 22 – Apr 8, 2010
4X, 5YZ	USA	GoMOOS mooring maintenance	Apr 13 – 22, 2010
5Y,Z	USA	N. right whale survey	Apr 26 – May 20, 2010