

Northwest Atlantic



Fisheries Organization

Serial No. N5424

NAFO SCS Doc. 07/17

**SCIENTIFIC COUNCIL MEETING – SEPTEMBER 2007**

Available Data from the Commercial Fisheries Related to Stock Assessment (2006)

and

Inventory of Biological Surveys Conducted in the NAFO Area in 2006

and

Biological Surveys Planned for 2007 and Early-2008

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 2007 Scientific Council Meeting and updated/corrected through correspondence during the summer.

These Tables are now being forwarded for final review by STACREC (with the exception of shrimp stocks), and be checked for accuracy and completeness. These Tables will be finalized and printed as a SCS Document based on comments forwarded to the NAFO Secretariat during the September 2007 Meeting.

Available data from the commercial fisheries related to stock assessment (2006). (+ means data available).

Stock	Biological Sampling							
	Country <sup>1</sup>	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
3M Cod	EU/PRT	+			+		+	
	EU/ESP	+						
	EU/EST	+						
	EU/LTU	+						
	RUS	+			+			
3NO Cod	CAN	+			+			
	EU/ESP	+						
	EU/PRT	+			+			
	EU/EST	+						
	EU/LTU	+						
SA 1 Redfish	GRL	+						
3M Redfish	EU/PRT	+	+	+	+		+	
	EU/ESP	+		+	+			
	EU/LTU	+						
	EU/EST	+						
	EU/LVA	+						
	JPN	+						
	RUS	+		+	+			
	UKR	+						
3LN Redfish	CAN(N)	+						
	EU/PRT	+		+	+			
	EU/ESP	+		+	+			
	EU/EST	+						
	RUS	+		+	+			
3O Redfish	CAN	+	+		+			
	EU/PRT	+	+		+			
	EU/ESP	+	+		+			
	RUS	+	+			+	+	+
3M American plaice	EU/PRT	+		+	+			
	EU/ESP	+						
	EU/EST	+						
	EU/LTU	+						
	RUS	+			+			
3LNO American plaice	CAN	+		+	+	+		
	RUS	+			+			
	EU/PRT	+						
	EU/ESP	+			+			
	EU/EST	+						
	EU/LTU	+						
3NO Witch flounder	CAN	+			+			
	EU/PRT	+			+			
	EU/ESP	+						
	RUS	+			+			
2J+3KL Witch flounder	CAN	+			+			
	EU/PRT	+			+			
	EU/ESP	+			+			
	RUS	+			+			
3LNO Yellow-tail flounder	CAN	+		+	+			+
	Other	+		+	+			

Available data from the commercial fisheries related to stock assessment (2005). (+ means data available).  
(continued).

Stock	Biological Sampling							
	Country <sup>1</sup>	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
SA 0 + 1B-F Greenland halibut	CAN	+	+		+			
	NOR	+	+		+			
	GRL	+	+					
	EU/DEU RUS	+	+	+	+	+	+	+
SA 1A Green- land halibut	GRL	+		+	+	+	+	+
SA 2+3 Green- land halibut	CAN	+	+	+	+	+		+
	EU/PRT	+	+	+	+			
	EU/ESP	+	+		+	+		
	EU/EST	+						
	EU/LVA	+						
	EU/LTU	+						
	FRA (SPM)	+						
	FRO	+						
	JPN RUS	+			+	+		
SA 0+1 Roundnose Grenadier	NOR	+						
	EU/DEU	+						
SA 2+3 Roundnose grenadier	EU/PRT	+						
	EU/ESP	+						
	EU/EST	+						
	JPN	+						
	RUS	+						
SA 2+3 Rough- head grenadier	CAN-N	+						
	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	+			+			
3M Shrimp	GRL	+	+					
3LNO Shrimp	CAN-N	+	+	+	+	+	+	+
	GRL	+	+					
	NOR	+	+	+	+			+
	EU/EST	+	+					
	EU/ESP	+	+					
Denmark Strait Shrimp	GRL	+	+					
	FRO	+	+					
	NOR	+	+					
	DNK	+	+					

Available data from the commercial fisheries related to stock assessment (2005). (+ means data available).  
(continued).

Stock	Biological Sampling							
	Country <sup>1</sup>	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
SA 0+1 Shrimp	GRL	+	+					
	DNK	+	+					
	CAN	+	+					

<sup>1</sup> Country abbreviations NAFO 3-Alpha.

## Inventory of biological surveys conducted in the NAFO Area in 2006.

Subarea/Division	Country	Month	Type of survey	No. of sets
<b>Stratified-Random Surveys</b>				
2J3KLMNO	CAN-N	10-12	Multispecies survey	704
3LMNO	CAN-N	5-6	Multi-species survey	195
3P	CAN-N	4-5	Multi-species trawl survey	57
4X	USA	1	Ecosystems Monitoring Survey	16
4X	USA	4	Spring Bottom Trawl Survey	19
4X	USA	4	Ecosystems Monitoring Survey	10
4X	USA	6	Ecosystems Monitoring Survey	19
4X	USA	8	Ecosystems Monitoring Survey	19
4X	USA	10	Autumn Bottom Trawl Survey	13
4X	USA	10	Ecosystems Monitoring Survey	14
4X	USA	11	Ecosystems Monitoring Survey	12
5Y, Z	USA	1	Ecosystems Monitoring Survey	16
5Y, Z	USA	2, 3	Winter Bottom Trawl Survey	42
5Z	USA	2,3	Ecosystems Monitoring Survey	11
5Y, Z	USA	3, 4	Spring Bottom Trawl Survey	174
5Y, Z	USA	3, 4	Ecosystems Monitoring Survey	63
5Y, Z	USA	6	Ecosystems Monitoring Survey	63
5Y, Z	USA	7, 8	Northern Shrimp Survey	54
5Y, Z	USA	8	Ecosystems Monitoring Survey	65
5Y, Z	USA	9, 10	Autumn bottom trawl survey	198
5Y, Z	USA	10	Ecosystems Monitoring Survey	55
5Y, Z	USA	11	Ecosystems Monitoring Survey	39
5Z	USA	7, 8	Sea Scallop Survey	294
6A, B, C	USA	2	Winter Bottom Trawl Survey	90
6A, B, C	USA	2	Ecosystems Monitoring Survey	46
6A, B, C	USA	3	Spring Bottom Trawl Survey	146
6A, B, C	USA	3	Ecosystems Monitoring Survey	41
6A, B, C	USA	6	Ecosystems Monitoring Survey	42
6A, B, C	USA	7, 8	Sea Scallop Survey	242
6A, B, C	USA	8	Ecosystems Monitoring Survey	52
6A, B, C	USA	9	Autumn Bottom Trawl Survey	152
6A, B, C	USA	9	Ecosystems Monitoring Survey	44
6A, B, C	USA	11	Ecosystems Monitoring Survey	26
<b>Other Surveys</b>				
3K	CAN-N	1	Bitter crab disease investigations	n/a
3K	CAN-N	1	Overwintering cod habitat	n/a
3K	CAN-N	9	White Bay/Notre Dame Bay snow crab trawl/trap survey	n/a
3KL	CAN-N	4-5	Capelin distribution and abundance	n/a
3KLNO	CAN-N	10-11	Physical/biological oceanography	n/a
3L	CAN-N	1	Cod habitat and acoustics	n/a
3L	CAN-N	5-6	Avalon snow crab trawl/trap survey	n/a
3L	CAN-N	5-9	Larval fish growth	n/a
3L	CAN-N	7	Fish/Seabird interactions	n/a
3L	CAN-N	7-8	Bonavista Bay snow crab trawl/trap survey	n/a
3L	CAN-N	9-10	Conception Bay snow crab trawl/trap survey	n/a
3LMNO	CAN-N	4	Physical and biological oceanography	n/a
3P	CAN-N	8	Sea cucumber survey	n/a
3P	CAN-N	*	Sea scallop survey	n/a
3Ps	CAN-N	4	Inshore pre-spawning cod trawl/acoustics survey	n/a
3Ps	CAN-N	6	Inshore cod tagging	n/a
3Ps	CAN-N	11	Cod tagging/tagging mortality	n/a
3O	RUS	8-9	Redfishes, Selectivity of Trawl	40
4	V,W,X	7,8	Aerial Marine Mammal Abundance Survey	N/A
4	X	7	Passive Acoustics/Marine Mammal Habitat Survey	N/A
4	X	11	North Atlantic Right Whale Aerial Surveys	N/A
5	Y,Z	1-12	North Atlantic Right Whale Aerial Surveys	N/A
5	Y	2,3	Stellwagen Sanctuary Hydrographic Survey	N/A

5	Y,Z	5	North Atlantic Right Whale Survey	N/A
5	Y, Z	7, 8	Passive Acoustics/Marine Mammal Habitat Survey	9
5	Z	8,9	Benthic Habitat	10
5	Y, Z	9, 10	Pelagic Hydroacoustic Survey	N/A
5	Y, Z	7, 8	Aerial Marine Mammal Abundance Survey	N/A
6	A	7, 8	Aerial Marine Mammal Abundance Survey	N/A
6	A	1-12	North Atlantic Right Whale Aerial Surveys	N/A
6	A,B	7	Pilot Whale Biopsy and Abundance Survey	N/A

---

Biological surveys planned for the NAFO Area in 2007 and early-2008.

Subarea/Division	Country	Type of Survey	Dates
<b>Stratified-random Surveys</b>			
2 HJ +3KLMNO	CAN-N	Multi-species trawl survey	Oct 3 – Dec 18
3LNO	CAN-N	Multi-species trawl survey	May 9- Jun 19
3Ps	CAN-N	Multi-species trawl survey	Apr 2 - May 8
3LMNO	RUS	Multispecial, trawl-acoustic survey	March-July 2008
4X, 5Y,Z	USA	Ecosystems monitoring	Jan 29 – Feb 8, 2007
5Z, 6A,B,C	USA	Winter bottom trawl	Feb 6 – Mar 2, 2007
4 X,5 YZ ,6 ABC	USA	Spring bottom trawl	Mar 7 - Apr 28, 2007
4 X,5 YZ ,6 ABC	USA	Ecosystems monitoring	May 22 - Jun 7, 2007
5 Z ,6 ABC	USA	Sea scallop survey	Jul 9 - Aug 16, 2007
4 X ,5 YZ ,6 ABC	USA	Ecosystems monitoring	Aug 14 - 30, 2007
5Y,Z	USA	Northern shrimp	Jul 23 - Aug 17, 2007

Biological surveys planned for the NAFO Area in 2006 and early-2007 (continued).

Subarea/Division	Country	Type of Survey	Dates
<b>Other Surveys</b>			
2 HJ +3KLMNO	CAN-N	Multi-species trawl survey	Oct 3 – Dec 18
3K	CAN-N	Connectivity of marine fish	May 14-May 25
3K	CAN-N	Bitter Crab Disease Investigations	Feb 4 – Feb 8
3K	CAN-N	White/Notre Dame Bay snow crab trap/trawl survey	Aug 28-Sep 10
3KL	CAN-N	Capelin acoustic/trawl survey	May 5-May 25
3KLP	CAN-N	Cod Tagging/Telemetry	Apr 30 – May 08 Jun 15 -26 Jun 27 – Jul 6 Nov 5 – Nov 12
3KLNO	CAN-N	Oceanography	Nov 27 – 15
3L	CAN-N	Trinity Bay Ecosystem Survey	Apr 13 – Apr 27 Aug 13– Aug 24 Sep 17 – Jan 25
3L	CAN-N	Seabed Classification	Oct 18 – Nov 03
3L	CAN-N	Bonavista Bay snow crab trap/trawl survey	Jul 31 – Aug 11
3L	CAN-N	Conception Bay snow crab trap/trawl survey	Oct 1-12
3LMNO	CAN-N	Physical and biological oceanographic survey	Apr 11 – Apr 27
3LMNO	CAN-N	Physical and biological oceanographic survey	Jul 15- Jul 31
3LN	RUS	Redfishes, selectivity of trawl	Jul-Nov 2007
3LNO	CAN-N	Multi-species trawl survey	May 9- Jun 19
3LNO	CAN-N	Hibernia Env. Monitoring	Jun 24 – Jun 29
3NO	CAN-N	Forage fish on the SE Shoal	May 26 – Jun 5
3NO	CAN-N	Forage fish on the SE Shoal	Jul 4 – Jul 14
3Ps	CAN-N	Multi-species trawl survey	Apr 2 - May 8
3P	CAN-N	Crab trawl/trap survey	May 28-Jun 14 Mar-May 2008
3LMN	RUS	Greenland halibut, selectivity of trawl	Jan-May 2008
3O	RUS	Redfishes, selectivity of trawl	Jul-Nov 2007 Mar-May 2008
4X, 5Y,Z	USA	GoMOOS Mooring Maintenance	Mar 22 – 28, 2007
4XW, 5YZ	USA	N. right & large whale biology	Jul 18 - Aug 9, 2007
4X, 5YZ, 6AB	USA	Cetacean & Turtle	Jul 23 – Aug 29, 2007
5Y,Z, 6A	USA	Standardized trawl survey	Jun 4 – Jul 6, 2007
5Z	USA	Paired Trawling	Aug 20 - 29 2007
5 Z , 6 A	USA	Benthic habitat	Jul 2 - 13, 2007
5Z, 6A,B,C	USA	N. right whale & pelagic cetacean biology	May 8 – Jun 11, 2007
6A	USA	Benthic Habitat	Mar 7 – 11, 2007
6A,B	USA	ME70 Multibeam Workshop	Jul 17 – 20, 2007
6A,B,C	USA	Striped Bass Biology	Jan 16 - 25 2007
4X, 5YZ	USA	Cross-Interference Evaluation	Sep 4 - Oct 19, 2007
		Atlantic herring hydroacoustic	