

Northwest Atlantic



Fisheries Organization

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Available Data from the Commercial Fisheries Related to Stock Assessment (2007)

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 2008 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 2008 Meeting.

Available data from the commercial fisheries related to stock assessment (2007). (+ means data available).

Stock	Biological Sampling							
	Country ¹	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	+						
	JPN	+						
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 (2007). (+ means data available).
(continued).

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

¹ Country abbreviations NAFO 3-Alpha.

Inventory of biological surveys conducted in the NAFO Area in 2007.

Subarea/Division	Country	Month	Type of survey	No. of sets
Stratified Random Surveys				
2,3JKLMNO	CAN-N	10-12	Multispecies survey	631
3L	EU-SPA	7	Groundfish (inside Canadian EEZ)	47
3L	EU-SPA	8	Groundfish	52
3L	EU-SPA	8	Groundfish	26
3LMNO	CAN-N	5-6	Multispecies Survey	295
3NO	EU-SPA	5	Groundfish	15
3NO	EU-SPA	6	Groundfish	96
3M	EU-SPA+PRT	7	Groundfish	178
3P	CAN-N	4-5	Multi-species trawl survey	193
4X	USA	2	Ecosystems Monitoring Survey	5
4X	USA	4	Spring Bottom Trawl Survey	26
4X	USA	4	Ecosystems Monitoring Survey	6
4X	USA	5	Ecosystems Monitoring Survey	1
4X	USA	6	Ecosystems Monitoring Survey	9
4X	USA	8	Ecosystems Monitoring Survey	10
4X	USA	10	Autumn Bottom Trawl Survey	25
4X	USA	10	Ecosystems Monitoring Survey	7
4X	USA	11	Ecosystems Monitoring Survey	11
5Y	USA	1	Ecosystems Monitoring Survey	8
5Y,Z	USA	2	Ecosystems Monitoring Survey	13
5Y, Z	USA	2, 3	Winter Bottom Trawl Survey	36
5 Z	USA	2	Ecosystems Monitoring Survey	9
5Y, Z	USA	3, 4	Spring Bottom Trawl Survey	169
5Y, Z	USA	3, 4	Ecosystems Monitoring Survey	70
5Y, Z	USA	5, 6	Ecosystems Monitoring Survey	76
5Y, Z	USA	7, 8	Northern Shrimp Survey	79
5Y,Z	USA	8	Ecosystems Monitoring Survey	59
5Y, Z	USA	9, 10	Autumn bottom trawl Survey	161
5Y,Z	USA	10	Ecosystems Monitoring Survey	70
5Y,Z	USA	11	Ecosystems Monitoring Survey	35
5Z	USA	7, 8	Sea Scallop Survey	334
6A, B, C	USA	2	Ecosystems Monitoring Survey	41
6A, B, C	USA	3	Spring Bottom Trawl Survey	160
6A, B, C	USA	2	Winter Bottom Trawl Survey	103
6A, B, C	USA	3	Ecosystems Monitoring Survey	38
6A, B, C	USA	5,6	Ecosystems Monitoring Survey	45
6A, B, C	USA	7	Trawl Survey Calibration	23
6A, B, C	USA	7, 8	Sea Scallop Survey	257
6A, B, C	USA	8	Ecosystems Monitoring Survey	41
6 A, B, C	USA	9	Autumn Bottom Trawl Survey	154
6A, B, C	USA	9, 10	Ecosystems Monitoring Survey	56
6A, B, C	USA	11	Ecosystems Monitoring Survey	34

Subarea/Division	Country	Month	Type of survey	No. of sets
Other Surveys				
3K	CAN-N	9	White Bay/Notre Dame Bay snow crab trawl/trap survey	n/a
3K	CAN-N	1	Bitter crab disease investigations	n/a
3K	CAN-N	1	Overwintering cod habitat	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	5-9	Larval fish growth	n/a
3L	CAN-N	5-6	Avalon snow crab trawl/trap survey	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
3LMNO	CAN-N	4	Physical and biological oceanography	n/a
3Ps	CAN-N	4	Inshore pre-spawning cod trawl/acoustics survey	n/a
3Ps	CAN-N	6	Inshore cod tagging	n/a
3P	CAN-N	8	Sea cucumber survey	n/a
3Ps	CAN-N	11	Cod tagging/tagging mortality	n/a
4X	USA	7, 8	Coordinated Ship & Aerial Marine Mammal Abundance Survey	N/A
5Y,Z	USA	1-12	North Atlantic Right Whale Aerial Surveys	N/A
5Y,Z	USA	1-2	Aerial Gray Seal Pup Survey	N/A
5Y,Z	USA	5	North Atlantic Right Whale Survey	N/A
5Z	USA	7	Benthic Habitat	31
5Y, Z	USA	7, 8	Coordinated Ship & Aerial Marine Mammal Abundance Survey	N/A
5Y,Z	USA	8	Trawling Calibration Study	59
5Y, Z	USA	9, 10	Pelagic Hydroacoustic Survey	33
5Y, Z	USA	10-12	Passive Acoustics/Marine Mammal Habitat Survey	N/A
5Z	USA	11	Gear Calibration	79
5A, B, C	USA	1	Trawling Calibration Study	42
6A	USA	1-12	North Atlantic Right Whale Aerial Surveys	N/A
6A, B, C	USA	7, 8	Aerial Marine Mammal Abundance Survey	N/A
6A	USA	8	Trawling Calibration Study	17

* In 2007 Russia did not carry out any surveys.

Biological surveys planned for the NAFO Area in 2008 and early-2009.

Subarea/Division	Country	Type of Survey	Dates
Stratified-Random Surveys			
2+3HJ+KLMNO	CAN-N	Multi-species trawl survey	Oct 1– Dec 16
3L	EU-SPA	Groundfish (inside Canadian EEZ)	July-August 2008
3L	EU-SPA	Groundfish	August 2008
3LN	CAN-N	Acoustic Survey of Overwintering cod	Mar 12 – Mar 31
3LNO	CAN-N	Multi-species trawl survey	May 6- Jul 1
3LMNO	RUS	Multispecies trawl survey	March-July
3M	EU-SPA+PRT	Groundfish	July 2008
3NO	EU-SPA	Groundfish	May-June 2008
3Ps	CAN-N	Multi-species trawl survey	Apr 5 - May 5
4X, 5YZ	USA	Ecosystems monitoring	Jan 22 – Feb 7
4X, 5YZ	USA	Spring bottom trawl	Mar 3 - Apr 25, 2008
6A,B,C			
5Z, 6ABC	USA	Surfclam & ocean quahog	Jun 26 – Aug 8, 2008
4X, 5YZ	USA	Ecosystems monitoring	May 29 - Jun 13, 2008
6ABC			
5Z, 6ABC	USA	Sea scallop	Jun 21 - Aug 7, 2008
5Y,Z	USA	Northern shrimp	Jul 21 - Aug 15, 2008
4X, 5YZ	USA	Autumn bottom trawl	Sep 2 – Oct 24, 2008
6ABC			
4X, 5YZ	USA	Ecosystems monitoring	Oct 27 - Nov 14, 2008
6ABC			
4X, 5YZ	USA	Ecosystems monitoring	Jan 26 - Feb 13, 2009
6ABC			
4X, 5YZ	USA	Spring bottom trawl	Feb 17 - Apr 24, 2009
6ABC			
Other Surveys			
3K	CAN-N	Bitter Crab Disease Investigations	Feb 1 – Feb 5
3K	CAN-N	Connectivity of marine fish	Jun 16 - 27
3KL	CAN-N	Capelin acoustic/trawl survey	May 6-May 24
3KLP	CAN-N	Cod Tagging/Telemetry	May 10 – 19 Jun 30 – Jul 8 Nov 7 – Nov 14
3KLNO	CAN-N	Oceanography	Nov 10 – Dec 12
3L	CAN-N	Trinity Bay Ecosystem Survey	Aug 20– Aug 26 Sep 19 – Sep 26 Oct 14 -21
3L	CAN-N	Seabed Classification	Oct 22 – Nov 04
3L	CAN-N	Bonavista Bay snow crab trap/trawl survey	Jul 29 – Aug 09
3L	CAN-N	Conception Bay snow crab trap/trawl survey	Sep 27 Oct 10
3LNO	CAN-N	Hibernia Env. Monitoring	May 25 – Jun 2
3LMNO	CAN-N	Physical & biological oceanographic survey	Apr 20 – May 5
3LMNO	CAN-N	Physical & biological oceanographic survey	Jul 4- Jul 19
3P	CAN-N	Crab trawl/trap survey	May 10-May 19
3O	RUS	Redfishes, Selectivity of trawl	July-Nov 2008
6A,B,C	USA	Academic projects	Jan 8 - 18 2008
5YZ	USA	N. right whale habitat	Feb 11 – Mar 11, 2008
4X, 5YZ	USA	Spring bottom trawl	Mar 3 - Apr 25, 2008
6ABC		sampling unit calibration	
5Z	USA	Deepwater biodiversity	Mar 17 – Apr 1, 2008
4X, 5YZ	USA	GoMOOS mooring maintenance	Apr 15 - 24, 2008
4X, 5YZ	USA	Site specific trawl	Apr 28– May 16, 2008
6ABC		sampling unit calibration (two ships)	

5Z, 6ABC	USA	N. right whale survey	May 5 – 30, 2008
6A	USA	Habitat mapping	Jun 17 – Jul 3, 2008
5Z	USA	Habitat mapping	Jul 8 – 25, 2008
6A	USA	Habitat mapping	Jul 30 – Aug 11, 2008
4X, 5YZ 6ABC	USA	Ecosystems monitoring	Aug 12 - 28, 2008
5Z	USA	Benthic habitat	Aug 13 - 26, 2008
4X, 5YZ 6ABC	USA	Autumn bottom trawl sampling unit calibration	Sep 2 – Oct 24, 2008
4X, 5YZ	USA	Atlantic herring hydroacoustic	Sep 3 - Oct 10, 2008
5Z, 6A	USA	Benthic habitat	Oct 14 - 24, 2008
4X, 5YZ 6ABC	USA	Site specific trawl sampling unit calibration (two ships)	Oct 27 – Nov 14, 2008
5Z, 6A	USA	Academic projects	Jan 12 - 23 2009
5YZ, 6A	USA	Multidisciplinary gear research	Feb 2 - 13, 2009
5YZ, 6ABC	USA	N. right whale biology	Mar 6 - 31, 2009