

Northwest Atlantic



Fisheries Organization

**Serial No. N5157**

**NAFO SCS Doc. 05/16**

**SCIENTIFIC COUNCIL MEETING – SEPTEMBER 2005**

Available Data from the Commercial Fisheries Related to Stock Assessment (2004)

and

Inventory of Biological Surveys Conducted in the NAFO Area in 2004

and

Biological Surveys Planned for 2005 and Early-2006

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 2005 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 2005 Meeting.

Available data from the commercial fisheries related to stock assessment (2004). (+ means data available).

Stock	Biological Sampling							
	Country <sup>1</sup>	Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
2J3KL Cod	CAN	+	+	+	+	+	+	+
3M Cod	CAN	+						
	RUS	+						
3NO Cod	CAN	+	+	+	+	+		
	RUS	+		+	+			+
SA 1 Redfish	GRL	+						
3M Redfish	EU/PRT	+	+	+	+			
	EU/ESP	+		+	+			
	EU/LTU	+						
	EU/EST	+						
	JPN	+				+		
	RUS	+			+	+		+
3LN Redfish	CAN	+		+	+			
	EU/PRT	+		+	+			
	EU/ESP	+		+	+			
	EU/LVA	+						
	EU/EST	+						
	JPN	+				+		
3O Redfish	CAN	+	+	+	+			+
	EU/PRT	+			+			
	EU/ESP	+						
	EU/EST	+						
	JPN	+						
	RUS	+	+	+	+			+
3M American plaice	EU/PRT	+		+	+			
	EU/ESP	+		+	+			
	EU/EST	+						
	JPN	+						
	RUS	+	+	+	+			+
	UKR	+						
3LNO American plaice	CAN	+		+	+	+		
	RUS	+			+			
	EU/PRT	+			+			
	EU/ESP	+			+			
	EU/EST	+						
	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	+	+	+	+			
	RUS	+						
SA 0 + 1B-F Greenland halibut	CAN	+	+	+	+	+		
	NOR	+						
	GRL	+		+	+			
	EU/DEU	+	+					
	RUS	+		+	+	+	+	+

Available data from the commercial fisheries related to stock assessment (2004). (+ means data available). (continued)

Stock	Country <sup>1</sup>	Biological Sampling						
		Catch	CPUE	Sex	Length	Age	Individual Wt.	Maturity
SA 1A Green- land halibut	GRL	+			+	+		
	RUS	+		+	+	+	+	+
SA 2+3 Green- land halibut	CAN	+	+	+	+	+		+
	EU/PRT	+	+	+	+			
	EU/ESP	+		+	+	+		
	EU/EST	+						
	EU/LVA	+						
	FRO	+						
	JPN	+						
	RUS	+			+			
SA 0+1 Roundnose Grenadier	CAN	+						
	EU/DEU	+						
	GRL	+						
SA 2+3 Roundnose grenadier	CAN	+						
	RUS	+						
SA 2+3 Rough- head grenadier	CAN	+						
	RUS	+		+	+			+
3NO Capelin	CAN	+						
SA 3+4 Squid	CAN	+			+			
SA 1 Other finfish	GRL	+						
	RUS	+		+	+		+	+
3NO White hake	CAN	+	+	+	+		+	+
	EU/PRT	+			+			
	EU/ESP	+			+			
	RUS	+		+	+			+
3LNO Thorny skate	CAN	+	+	+	+		+	+
	EU/PRT	+			+			
	EU/ESP	+			+		+	+
	RUS	+		+	+			+
3LNO Shrimp	CAN	+	+	+	+	+		+
	NOR	+	+	+	+	+		+
	ISL	+	+	+	+	+		+
3M Shrimp	CUB	+						
	EST	+						
	EU/ESP	+		+	+			
	FRA-SP	+						
	FRO	+						
	ISL	+	+	+	+	+		+
	LTV	+						
	LTU	+						
	NOR	+	+	+	+	+		+
	POL	+						
	RUS	-						
UKR	+							
SA 0+1 Shrimp	CAN	+						
Denmark Strait Shrimp	GRL	+	+					
	FRO	+	+					
	NOR	+	+					
	ISL	+	+					
	EU-DNK	+	+					

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

## Inventory of biological surveys conducted in the NAFO Area in 2004.

Subarea/Division	Country	Month	Type of survey	No. of sets
<b>Stratified-Random Surveys</b>				
0A	CAN-CA	9,10	Groundfish assessment	101
3Ps	CAN-N	4-5	Multi-species trawl survey	192
3LMNO	CAN-N	5-6	Multi-species survey	145
2J3KLMNO	CAN-N	10-12	Multi-species survey	500
4R	CAN-Q	9	Herring survey	n/a
4X	USA	4	Spring Bottom Trawl Survey	21
4X	USA	10	Autumn Bottom Trawl Survey	17
5Y, Z	USA	3, 4	Spring Bottom Trawl Survey	154
5Y, Z	USA	7, 8	Northern Shrimp Survey	44
5Y, Z	USA	9, 10	Autumn Bottom Trawl Survey	154
5Z	USA	2	Winter Bottom Trawl Survey	42
5Z	USA	7, 8	Sea Scallop Survey	255
6A, B, C	USA	2	Winter Bottom Trawl Survey	93
6A, B, C	USA	3	Spring Bottom Trawl Survey	142
6A, B, C	USA	7	Sea Scallop Survey	244
6A, B, C	USA	9	Autumn Bottom Trawl Survey	140
3NO	EU/ESP	6	Groundfish	122
3L	EU/ESP	8	Groundfish	58
3M	EU/ESP	7,8	Groundfish	264
<b>Other Surveys</b>				
2J3KL	CAN-N	8-Jul	Physical/Biological Oceanography	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 & 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	1	Overwintering acoustic survey	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 & Biological Oceanography	n/a
3O	RUS	1-2	Redfishes, selectivity of trawl	21
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
5Y,Z	USA	9, 10	Pelagic Hydroacoustic Survey	61

Biological surveys planned for the NAFO Area in 2005 and early-2006.

Subarea/Division	Country	Type of Survey	Dates
<b>Stratified-random Surveys</b>			
1A-1F	GRL	Bottom trawl survey for shrimp	Jun-Aug 2005
1CD	GRL	Deep sea bottom trawl	Sep-05
2HJ+3KLMNO	CAN-N	Multi-species trawl survey	Oct 1-Jan 17, 2005
3LNO	CAN-N	Multi-species trawl survey	May 14-Jul 27, 2005
3Ps	CAN-N	Multi-species trawl survey	Apr 16-May 13, 2005
3NO	EU/ESP	Groundfish	June, 2005
3M	EU/ESP	Groundfish	July-August, 2005
3L	EU/ESP	Groundfish	August, 2005
3LMNO	RUS	Multi-species, trawl-acoustic survey	May-June 2006
4X+5Y,Z+6ABC	USA	Ecosystems monitoring	Jan 24-Feb 7, 2005
4X+5Y,Z+6ABC	USA	Spring bottom trawl	Mar 1- Apr 22, 2005
4X+5Y,Z+6ABC	USA	Ecosystems monitoring	May 23- Jun 9, 2005
4X+5Y,Z+6ABC	USA	Ecosystems monitoring	Aug 8-25, 2005
4X+5Y,Z+6ABC	USA	Autumn bottom trawl	Sep 6-Oct 28, 2005
4X+5Y,Z+6ABC	USA	Ecosystems monitoring	Oct 31-Nov 18, 2005
4X+5Y,Z+6ABC	USA	Ecosystems monitoring	Jan 23- Feb 6, 2006
4X+5Y,Z+6ABC	USA	Spring bottom trawl	Mar 13-Apr 28, 2006
5Y,Z+6A,B,C	USA	Winter bottom trawl	Jan 31-Feb 25, 2005
5Y,Z+6A,B,C	USA	Surfclam/Ocean Quahog	May 23-Jul 1, 2005
5Y,Z+6A,B,C	USA	Sea scallop	Jul 5-Aug 5, 2005
5Y,Z+6A,B,C	USA	Pelagic cetacean, distributon & abundance	Jul 5-Aug 5, 2005
5Y,Z	USA	Northern shrimp	Jul 25-Aug 8, 2005
5Y,Z+6A,B,C	USA	Winter bottom trawl	Feb 6-Mar 3, 2006
<b>Other Surveys</b>			
1A	GRL	Gill net survey for GHL	Jul-05
1A	GRL	Long line survey for GHL	Jul-Sep 2005
1F+2GHJ+3K	RUS	Redfish, selectivity of trawl	July-September 2005
3K	CAN-N	White/Notre Dame Bay snow crab trap/trawl survey	Aug 30-Sep 16
3KL	CAN-N	Capelin acoustic/trawl survey	May 17-Jun 4
3KL	CAN-N	Marine Salmon	Sep 10-30
3KLNO	CAN-N	Oceanography	Nov 26-Dec 13
3L	CAN-N	Avalon snow crab trawl/trap survey	May 10-23
3L	CAN-N	Bonavista Bay snow crab trap/trawl survey	Aug 1-12
3L	CAN-N	Conception Bay snow crab trap/trawl survey	Oct 6-18
3L	CAN-N	Bonavista Bay cod habitat and acoustics	Nov 22-Dec 14
3LMNO	CAN-N	Physical and biological oceanographic survey	Apr 26-May 9
3LMNO	CAN-N	Physical and biological oceanographic survey	Jul 16-Jun 5
3MO	RUS	Redfishes, selectivity of trawl	March-July 2006
3O	RUS	Redfishes, selectivity of trawl	September-November 2005
4VWX+5YZ	USA	Northern right whale and large whale biology	Jul 25-Aug 18, 2005
4X+5Z	USA	GoMOOS mooring	Apr 25-30, 2005
4X+5YZ	USA	Northern right whale and pelagic cetacean biology	Apr 25-May 20, 2005
4X+5YZ	USA	Atlantic herring hydroacoustic	Sep 6- Oct 14, 2005
5Y	USA	Stellwagen Bank Nat. Mar. Sanctuary acoustic	Feb 21-Mar 4, 2006
5Y	USA	Stellwagen Bank Nat. Mar. Sanctuary acoustic	Feb 13-Mar 10, 2006
5Z	USA	Survey trawl testing	Feb 14-18, 2005
5Z	USA	Northern shrimp ecology	Mar 6-11, 2005
5Z	USA	Advanced technology	Mar 14-Apr 1, 2005
5Z	USA	Deepwater biodiversity	Apr 11-22, 2005
5Z	USA	Benthic habitat	Aug 22- Sep 2, 2005
5Z	USA	Survey trawl study	Oct 17-28, 2005
5Z+6A	USA	Benthic habitat	Oct 31-Nov 10, 2005
5Z	USA	Bottom trawl survey shakedown	Jan 30-Feb 3, 2006
5Z	USA	Gear experimentation	Mar 13-31, 2006
6B,C	USA	Cooperative striped bass study	Jan 17-28, 2005
6B,C	USA	Cooperative striped bass study	Jan 9-20, 2006