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SCIENTIFIC COUNCIL MEETING – NOVEMBER 2002

A Compilation of Research Vessel Surveys on a Stock-by-stock Basis

by

NAFO Secretariat

Discussions at the Scientific Council Meeting in June 1990 resulted in the compilation of information on research vessel surveys on a stock-by-stock basis (SCS Doc. 90/22, Serial No. N1820). This inventory was judged to be very helpful for the establishment of future inventories. It was agreed that the Designated Experts for the stocks be responsible for future compilations. The tabulations prepared at the June 1991 Meeting were presented and it was concluded (*NAFO Sci. Coun. Rep.*, 1991, p. 114) that Designated Experts should update the information annually for review by STACFIS. The following tabulations were received at the Secretariat from the Designated Experts during the year 2002.

Stock name: Greenland halibut in Subarea 0, Division 1A offshore and Divisions 1B-F																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Country	SCS/ SCR Doc. No	
										abundance	bio-mass	ALK	LF	Indiv- idual weights		
Canada SA 0 survey	0A	Oct	1999	Stratified Random bottom Trawl	GHL	65	Y	?	400-1500m	Y	Y	Y	Y	Y	Canada	SCR 00/31
	0B	Oct	2000		GHL	64	Y	?		Y	Y	Y	Y	Y		SCR 01/42
	0AB	Sep-Oct	2001		GHL	84	Y	?		Y	Y	Y	Y	Y		SCR/ 02/47
Greenland Deep Sea	1CD	Sep-Nov	Since 1997	Stratified Random bottom Trawl	Greenland halibut Roundnose grenadier	42	N/Y	?	400-1500 m	Y	Y	Y	Y	Y	Green-land	SCR 02/30
	1AB	Sep-Oct	2001		Greenland halibut Groundfish	79	Y	?	1-1500 m	Y	Y	Y	Y	Y		SCR 02/30
Greenland Shrimp Trawl	1A-F	Jul-Sep	Since 1988	Stratified Random bottom Trawl	Shrimp Groundfish	234	N	?	0-600m	Y	Y	Y	Y	Y	Green-land	SCR 02/48

Stock name: Greenland halibut in Subareas 2+3KLMNO																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	abundance	bio-mass	ALK	LF	Individual weights	Country	SCS/ SCR Doc. No.
Canadian autumn groundfish	2J,3K, 3L	Sep-Dec	78-01 2J3K 81-00 3L	Stratified-random Engel trawl 1978-94 2J3K Yankee trawl 1981- 82 3L Engel trawl 1984-94 3L Campelen Trawl all areas 1995-01	Groundfish (Cod, flounders, G. halibut, Redfish & shellfish)	490 in 2000	Y	This column not appropriate for this species given differences in depth coverage and areas covered in the surveys.	2J3K in 2001 120-1479 m 3L in 2000 42-1430 m	Y	Y	Y	Y	Y	Canada	02/24
EU bottom trawl	3M	Jul	1988-00	Stratified-random Bottom trawl	Groundfish & shrimp	120 in 2001	N		731 m	N	N	Y		Y	EU	02/12
EU-Spain bottom trawl	Reg. Area 3NO	Apr-May	1995-2001	Stratified-random Bottom trawl	Groundfish	130 in 2001	N		1430 m in recent years	Y	Y	N	Y	Y	Spain	02/04
Canadian groundfish	2GH	Sep-Oct	occasion since 1978	Stratified-random Campelen in 1996-01	Groundfish & shellfish	57 in 2H in 2001	Y		201-1382 m	Y	Y		Y	Y	Canada	02/24
Canadian groundfish	3MNO	Sep-Dec	3NO 1990-00 *3M 1996-00	Stratified-random Campelen	Groundfish	26-3M 94-3N 97-3O in 2001	Y	3M * 1997 only in deepwater Sackville Spur, Flem. Pass	1407 m 3M 1410 m 3N 1391 m 3O in 2001	Y	Y	Y	Y	Y	Canada	02/24
Russian	3M	May	1987-96	Stratified-random Bottom trawl	Groundfish	-	Y		914 m in 1996	Y	Y			N	Russia	98/13
	3LM Fl. Pass	Feb Apr-May	1995-96 2000	Stratified-random Bottom trawl	Groundfish	-	Y		732-1280 m	Y		Y		N	Russia	01/10
	3M	May/June	2001	Stratified-random Bottom trawl	Groundfish	90	Y	Flemish Cap	127-1280	Y	Y	Y		N	Russia	02/27

Stock name: Roundnose Grenadier in Subareas 0+1																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
										abun- dance	bio- mass	ALK	LF			
Greenland Deep Sea	1CD	Sep-Nov	Since 1997	Stratified Random Bottom Trawl	Greenland halibut, Roundnose grenadier	42	N/Y	?	400-1500m	Y	Y	N	Y	N	Green-land	SCR 02/30
Canadian Deep Sea	0AB	Sep-Oct	2001	Stratified Random Bottom Trawl	Greenland halibut	84	Y	?	400-1500	Y	Y	N	Y	N	Canada	SCR 02/47

Stock name: Redfish in Subarea 1																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	abundance	bio-mass	ALK	LF	Individual weights	Country	SCS/ SCR Doc. No.
West Greenland Groundfish	1B - 1F	Oct-Nov	since 1982	Stratified random bottom trawl	Cod, redfish, other finfish	54	N	80	0-400m	Y	Y	N	Y	Y	EU-Germany	SCS 02/9 SCR 02/23
Greenland - Deepsea	1A - 1D	Sep-Oct	1987-95 since 1997	Stratified random bottom trawl	Greenland halibut, Roundnose Grenadier	121	N/Y	?	1-1500m	Y	Y	N	Y	N	*Greenland	SCR 02/30
Greenland shrimp	1A - 1F	Jul-Aug	since 1992	Stratified random bottom trawl	Shrimp	234	N	?	0-600m	Y	Y	N	Y	N	Greenland	SCR 02/48

Stock name: Other Finfish in Subarea I																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of Sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
										abun- dance	bio- mass	ALK	LF			
West Greenland groundfish	1B - 1F	Oct-Nov	since 1982	Stratified random bottom trawl	Cod, redfish Other finfish	59	N	80	0-400m	Y	Y	N	Y	U	EU- Germany	SCS 02/9 SCR 02/22
Greenland/ Deepsea	1A - 1D	Sep-Nov	1987-95 1997-2001	"	Greenland halibut Roundnose grenadier	121	N/Y	?	100-1500m	Y	Y	N	Y	N	Green- land/	SCR 02/30
Greenland shrimp	1A - 1F	Jul-Aug	since 1992	"	Shrimp	234	N	?	0-600m	Y	Y	N	Y	N	Green- land	SCR 02/48

Stock name: Cod in Division 3M																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
EU- bottom trawl survey	3M	Jul	since 1988	Stratified random	all	120	N	100%	to 730 m	Y	Y	Y	Y	Y	EU	SCR 02/12
Russian trawl survey	3M	May-June	1983-1993 1995-1996 2001	Stratified Random (and acoustic survey 1987-93)	all	90	Y	100%	to 1280 m	Y	Y	N	Y	N	Russia	SCS 02/4
Canadian groundfish survey	3M	Sept/oct	1996	Stratified random	all	68	Y	100%	to 730 m	Y	Y	N	Y	N	Canada New-foundland	SCR 97/42

Stock name: Redfish in Division 3M																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Individual weights	Country	SCS/ SCR Doc. No.
EU Flemish Cap Survey	3M	Summer July	1988	Stratified random bottom trawl	Groundfish and shrimp	120	N	67%	127- 730 m	Y	Y	Y	Y	Y	EU/ESP EU/PRT	02/12
Russian Trawl Survey	3M	Spring May-June	1987-96 2001	Stratified random bottom trawl	Groundfish	90	Y	100%	127- 1280	Y	Y	Y	Y	Y	Russia	

Stock name: American plaice in Division 3M																
Name of survey	Location (Div.)	Season months(s)	Years of survey since	Type of survey and gears	Target Species	No. of Sets	24 hr fishing	Area of coverage in relation to stock distribu- tion (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
										abun- dance	bio- mass	ALK	LF			
EU – bottom Trawl	3M	Summer Jul	1988	Stratified-random bottom trawl	Groundfish and shrimp	120	N	100	127- 731 m	Y	Y	Y	Y	Y	EU- Spain EU- Portugal	02/12
RUSSIA - Trawl survey	3M	Spring May/Jun	2001	Stratified-random bottom trawl	Groundfish	90	Y	100	127- 1280 m	Y	Y	Y	Y	Y	RUSSIA	WP 02/13

Stock name: Cod in Divisions 3NO																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
Groundfish	3NO	Apr, May	1972-01 (except 1983)	Stratified- random Bottom trawl	Multi- species	160	Y	100	30-400 fm	Y	Y	Y	Y	Y	Canada	02/57
										abun- dance	bio- mass	ALK	LF			
Juvenile flatfish	3NO	Sep	1989-94	Stratified- random Bottom trawl	Groundfish		Y	100	30-150	Y	Y	Y	Y	Y	Canada	96/80
Groundfish	3NO	Oct, Nov	1990-01	Stratified- random Bottom trawl	Multi- species	160	Y	100	30-800 fm	Y	Y	Y	Y	Y	Canada	02/57
										abun- dance	bio- mass	ALK	LF			
EU-Spain	3NO Reg. Area	May	1995-01	Stratified- random & Lofoten	Groundfish	137	N	20	1 100 m	Y	N	Y	N	Y	Spain	SCS 02/07

Stock name: Redfish in Divisions 3LN																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Individual weights	Country	SCS/ SCR Doc. No.
										abundance	bio-mass	ALK	LF			
USSR groundfish	3L, 3N	Apr-Jul (mostly)	1972-82	Fixed station Bottom trawl	Multi-species Groundfish	50-60 per Div.	Y	Unknown	1972-76; to 367m 1977-82; to 732 m	Y	Y	Y	Y	Some-times	USSR	86/66
USSR ground-fish	3L, 3N	Apr-Jun (mostly)	1983-91, 1993, 1994	Stratified-random Bottom trawl	Multi-species Groundfish	approx. 48-3L	Y	Unknown	to 732 m	Y	Y	Y	Y	Some-times	USSR	86/66
USSR acoustic	3LN	Apr-Jun	1987-91, 1993	Acoustic	Multi-species Groundfish	approx. 42-3N unknown midwater sampl.	Y	Unknown	to 732 m	Y	Y	Y	Y	Some-times	USSR	88/24
Canadian groundfish (covering deep-water strata)	3L	various	1978-86	Stratified-random Bottom Trawl	Multi-species Groundfish	min. of 40 in depths >183m	Y	Unknown	to 732 m	Y	Y	Y	Y	Some-times	Canada	NAFO Studies No. 2
Canada redfish	3L	Jan	1990	Stratified-random Bottom trawl	Redfish	55	Y	Unknown	183-732 m	Y	Y	Y	Y	N	Canada	NAFO Studies No. 2
Canada ground- fish	3LN	Apr-Jun	1990-93	Stratified-random Bottom trawl	Multi-species Groundfish	90 in redfish depths	Y	Unknown	to 732 m	Y	Y	Y	Y	Y	Canada	NAFO Studies No. 2
Canada redfish	3L, 3N (since 1990)	Aug	1990-91, 1993	Stratified-random Bottom trawl	Redfish	59-3L 47-3N	Y	Unknown	183-732 m	Y	Y	Y	Y	Y	Canada	NAFO Studies No. 2
Canada ground- fish	3L	Oct-Dec + Apr-May	1990-01	Stratified-random Bottom trawl	Multi-species Groundfish	44-53N in depths 184-914 m	Y	Unknown	to 732 m	Y	Y	Y	Y	N	Canada	NAFO Studies No. 2
Canada ground- fish	3N	Oct-Dec + Apr-May	1991-02	Stratified-random Bottom trawl	Multi-species Groundfish	30-36 in redfish depths 93-914 m	Y	Unknown	to 732 m	Y	Y	Y	Y	Y	Canada	NAFO Studies No. 2

Stock name: American plaice in Divisions 3LNO																
Name of survey	Location (Div.)	Season Months(s)	Years of Survey from, to or since	Type of survey and gears	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range	Research data related to stock estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
Canadian spring	3LNO	Apr-Jun	1971-2001	Stratified random Campelen	Groundfish	310	Y	95	to 730 m	Y	Y	Y	Y	Y	Canada	SCR 02/70
										abun- dance	bio- mass	ALK	LF			
Canadian autumn	3LNO	Sep-Dec	1990-2001	Stratified random Campelen	Groundfish Shellfish	310	Y	100	to 1460 m	Y	Y	Y	Y	Y	Canada	SCR 02/70
										abun- dance	bio- mass	ALK	LF			
EU-Spain	3NO Reg. Area	Apr-May	1995-2001	Stratified random Padreira	Groundfish	124	N	11	to 1460 m	Y	N	Y	Y	N	Spain	SCR 02/2
										abun- dance	bio- mass	ALK	LF			
Canadian DFO-Industry Co-operative	3NO expanded to 3L in 2000	July Quarterly in 1997-98	1996-2001	Grid survey with commercial Engel trawl (unlined)	Yellowtail (by-catches of cod, A. plaice)	50-80 sets per survey (285 total in 1997)	Y	35	45-90 m	N	N	N	N	N	Canada	SCR 02/44
										abun- dance	bio- mass	ALK	LF			

Stock name: Yellowtail flounder in Divisions 3L, 3N and 3O																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target Species	No. of Sets (2001)	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
Canadian Groundfish (Spring)	Div. 3LNO	Spring (Apr-Jun)	1971-2001	Stratified random - bottom trawl	Groundfish & shellfish	311	Y	100	51 to 730m	Y	Y	Y	Y	Y	Canada	02/43
Canadian Groundfish (Autumn)	Div. 3LNO	Autumn (Oct-Nov)	1990-2001	Stratified-random - bottom trawl	Groundfish & shellfish	394	Y	100	51 to 1 437m	Y	Y	Y	Y	Y	Canada	02/43
Spanish Groundfish (Spring)	Div. 3NO Regulatory Area	Spring (Apr-May)	1995-2001	Stratified-random - bottom trawl	Groundfish	130	N	unknown	45 to 1 280m	Y	N	Y	N	N	Spain	02/3
Canadian DFO/Industry	Div. 3NO	Seasonal during 1997-98. Surveys in July of all yrs 1996-2001	1996-2001	Grid , with fixed stations, unlined trawl. Grid expanded in 2000-2001.	Yellowtail	152	Y	80	45-90m	N	N	N	Y	N	Canada	02/44

Stock name: Witch flounder in Divisions 3N and 3O																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distrib- ution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
Canadian Groundfish (Spring)	Div. 3LNO	Spring (Apr-Jun)	1971-01	Stratified- Random - Bottom trawl	Groundfish	about 300	Y	100	51 to 731m	Y	Y	Y	Y	Y	Canada	02/53
										Y	Y	Y	Y	Y		
										Y	Y	Y	Y	Y		
Canadian Groundfish (Autumn)	Div. 3LNO	Autumn (Oct-Nov)	1990-01	Stratified- Random - Bottom trawl	Groundfish	205-3L 94-3N 97-3O	Y	100	51 to 1424m	Y	Y	Y	Y	Y	Canada	02/53
Spanish Groundfish (Spring)	Div. 3NO Regulatory Area	Spring (Apr-May)	1995- 2000	Stratified- Random - Bottom trawl	Groundfish	118	N	unknown	45 to 1500m	Y	Y	Y	N	N	Spain	00/46

Stock name: Cod Divisions 2I+3KL																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCR Doc. No.
Groundfish	2I3K	Oct, Nov, Dec	1977-01	Stratified-random Bottom trawl	Groundfish	400	Y	100	100-1000 m	Y	Y	Y	Y	Y	Canada	02/66
Groundfish	3L	Oct, Nov	1981-01	Stratified-random Bottom trawl	Groundfish	160	Y		30-400 fm	Y	Y	Y	Y	Y	Canada	02/66
Groundfish	3L	May-Jun	1971-01	Stratified-random Bottom trawl	Groundfish	160	Y		30-800 fm	Y	Y	Y	Y	Y	Canada	02/66
Acoustics	3L	Apr	1997	Acoustic	Cod		Y			N	Y	Y	Y	N	Canada	97/49
Juvenile flatfish	3L	Aug, Sep	1989-94	Stratified-random Bottom trawl	Groundfish		Y		30-150 fm	Y	Y	Y	N	N	Canada	95/59
Juvenile cod	2I3KL	Aug, Sep	1992-99	Fixed station	0-group cod	100-150	Y		30-400 fm	Y	Y	Y	Y	N	Canada	00/33
Acoustic	3KL	Oct-Dec	1997	Acoustic	cod/herring		N	70	<120m	N	Y	Y	Y	N	Canada	98/46

Stock name: Witch flounder in Div. 2J+3KL																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCR Doc. No.
Canadian autumn groundfish	2J,3K, 3L	Sep-Dec	78-01 2J3K 81-00 3L	Stratified-random Engel trawl 1978-94 2J3K Yankee trawl 1981-82 3L Engel trawl 1984-94 3L Campelen Trawl all areas 1995-00	Groundfish (Cod, flounders, G. halibut, Redfish & shellfish)	490 in 2001	Y	This column not appropriate for this species given differences in depth coverage and areas covered in the surveys.	2J3K in 2000 120-1479m 3L in 2000 146-1457 m	abun- dance Y	bio- mass Y	ALK Y	LF Y	Y	Canada	02/52

Stock name: Elasmobranchs in Subareas 2-6																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of Coverage in Relation to stock distribution (%)	Depth range	abundance	bio-mass	Research data related to stock size estimates		Indiv-idual weights	Country	SCS Doc. No.
Can. Spring Multispecies	SA 3	Apr-Jun	1971 to date	Stratified-random	Multispecies	~200	Y	Partial	50-1100 m	Y	Y	N	Y	N	Canada	02/10
Can. Fall Multispecies	SA 3	Sep-Nov	1978 to date	Stratified-random	Multispecies	~250	Y	All	50-1250 m	Y	Y	N	Y	N	Canada	02/10
Can. Bottom trawl Scotian Shelf	SA4	Jul	1970-date	Stratified-random bottom trawl	Multi-species		Y	?	?	Y	Y	N	Y	N	Canada	
Spanish bottom trawl	3NO (NRA)	May	1995-date	Stratified-random Bottom trawl	Groundfish	133	Day	Partial	56-1466 m	Y	Y	N	Y	N	Spain	02/7
USA R/V bottom trawl survey	SA 4-6	Autumn	1963-date	Bottom trawl	Groundfish	249, 156, 175	Y	Partial	20-400 m	Y	Y	N	Y	Y	USA	02/15, SCR 00/19
		Spring	1968-date													
		Winter	1992-date													

See Table 4 – Inventory of Surveys for STACREC for full list of surveys that catch elasmobranchs across all areas.

Stock name: Northern Shortfin Squid in Subareas 3 and 4

Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCR Doc. No
Canadian multi-species Scotian Shelf	SA 4 (4VWX)	July	From 1970	Stratified random bottom trawl	Multi-species		Y	unknown	Inshore to 366 m	Y	Y	N	Y	N	Canada	01/61
Canadian multi-species Gulf of St. Lawrence	SA 4 (4T)	Sept	From 1971	Stratified random bottom trawl	Multi-species		Day-time only	unknown		Y	Y	N	N	N	Canada	01/61
Canadian SA 2+3 multi-species	SA 2+3 (2J3KLNO)	Sept-Dec	1995	Stratified random bottom trawl – Campelen 1800	Multi-species	450	Y	unknown							Canada	02/??
Canadian SA 3 multi-species	SA 3 (3LNOPs)	April-June	1995	Stratified random bottom trawl – Campelen 1800	Multi-species	488	Y	unknown							Canada	02/??
EU Flemish Cap multi-species	3M	July	1988	Stratified random bottom trawl – Lofoten through 2001	Multi-species	120	0600-2200	unknown								02/12

Stock name: Squid in Subareas 5 and 6

Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCR Doc. No
NEFSC Autumn Bottom Trawl	SA 5+6	Sep-Dec	From 1967	Stratified random bottom trawl	Multi-species	~350	Y	USA shelf, GOM-Cape Hatteras (area of coverage in relation to total stock area varies interannually, depending on timing of offshore autumn migration and is unknown)	27-366 m	abun- dance	bio- mass	ALK	LF	N	USA	01/61

Stock name: Shrimp in 3LNO																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No
										abun- dance	bio- mass	ALK	LF			
Multi-species Spring Survey	3LNO 3Ps	May to June	1999 to present	Stratified-random bottom trawl	Groundfish Shellfish (crab, shrimp)/ capelin	~350	Yes	100% of area covered	30-732 m	Y	Y	N	Y	N	Canada	SCR 02/160
Multi-species Autumn Survey	2J 3KLNO	October to December	1995 to present	Stratified-random bottom trawl	Groundfish Shellfish (crab, shrimp)/ capelin	(~370 sets done in Div. 3LNO)	Yes	100% of area covered	30-1500 m	Y	Y	N	Y	N	Canada	SCR 02/160

Stock name: Shrimp in Division 3M

Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribu- tion (%)	Depth range	Research data related to stock size estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No
										abun- dance	bio- mass	ALK	LF			
EU-bottom trawl	3M	Jul	1988	Stratified-random bottom trawl	All	120	N	100	80-730 m	Y	Y	Y	Y	Y	EU	SCR 96/94 96/98
Faroe Shrimp trawl survey	3M	Jun/Jul	1997	Stratified-random bottom trawl	Shrimp	61	Y	100	200-600 m	Y	Y	Y	Y	Y	Faroe Islands	SCR 01/187 01/188

Stock name: Shrimp – Subarea 0+1																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey and gears	Target species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth range	Research data related to stock estimates				Indiv- idual weights	Country	SCS/ SCR Doc. No.
West Greenland trawl survey	SA 0+ 1 (West Greenland Shelf)	Jul- Sep	since 1988	Stratified-random survey Skjervøy 3000 with bobbin gear	Northern shrimp groundfish	238	N	95	150- 600 m	Y	Y	N	Y	Y	Green- land	02/14 8

