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**SCIENTIFIC COUNCIL MEETING – OCTOBER/NOVEMBER 2005**

**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 and that Designated Experts should update the information annually for review by STACFIS (*NAFO Sci. Coun. Rep.*, 1991, p. 114). The following tabulations were received at the Secretariat from the Designated Experts during the year 2005.

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				Individual weights	Country	SCS/ SCR Doc. No.
Canadian spring	3LNO	Apr-Jun	1971-2004	Stratified random Campelen	Groundfish	314	Y	95	to 730 m	Y	Y	Y	Y	Y	Canada	SCR 05/61
Canadian autumn	3LNO	Sep-Dec	1990-2004	Stratified random Campelen	Groundfish Shellfish	345	Y	100	to 1 460 m	Y	Y	Y	Y	Y	Canada	SCR 05/61
EU-Spain	3NO Reg. Area	Apr-May	1995-2004	Stratified random Campelen	Groundfish	120	N	12	to 1 460 m	Y	Y	N	Y	N	Spain	SCR 05/26
Canadian DFO-Industry Co-operative	3NO expanded to 3L in 2000	July Quarterly in 1997-98	1996-2004	Grid survey with commercial Engel trawl (unlined)	Yellowtail (by-catches of cod, A. plaice)	50-92 sets per survey (285 total in 1997)	Y	20	45-90 m	N	N	N	N	N	Canada	SCR 05/9

Stock name: American plaice 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 – bottom Trawl	3M	Summer Jul	1988	Stratified-random bottom trawl	Groundfish and shrimp	177	N	100	127-1400m	Y	Y	Y	Y	Y	EU-Spain EU-Portugal	05/35

Stock name: Capelin 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 estimates				Individual weights	Country	SCS/ SCR Doc. No.
										abundance x10 <sup>9</sup>	bio-mass x10 <sup>3</sup> t	ALK	LF			
Multi-species bottom trawl survey	3NO	5-6	1977-2004	Stratified-random, Campelen 1800	Demersal fishes	309	+	100	44-710	2.9	35.5	N	Y	N	CAN	05/17

Stock name: Cod in Division 3M																
Name of survey	Location (Div.)	Season months(s)	Years of survey from, to or since	Type of survey	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- bottom trawl survey	3M	Jul	since 1988	Stratified random	all	177	N	100%	to 1400 m	Y	Y	Y	Y	Y	EU	SCR 05/35
Russian trawl survey	3M	May-June	1983-1993 1995-1996 2001-2002	Stratified Random (and acoustic survey 1987-93)	all	94	Y	100%	to 1280 m	Y	Y	N	N	N	Russia	SCS 03/9
Canadian groundfish survey	3M	Sept/oct	1996	Stratified random	all	68	Y	100%	to 730 m	Y	Y	N	N	N	Canada Newfoundland	SCR 97/42

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				Individual weights	Country	SCS/ SCR Doc. No.
EU- bottom trawl survey	3M	Jul	since 1988	Stratified random	all	177	N	100%	to 1400 m	Y	Y	Y	Y	Y	EU	SCR 05/35
Russian trawl survey	3M	May-June	1983-1993 1995-1996 2001-2002	Stratified Random (and acoustic survey 1987-93)	all	94	Y	100%	to 1280 m	Y	Y	N	N	N	Russia	SCS 03/9
Canadian groundfish survey	3M	Sept/oct	1996	Stratified random	all	68	Y	100%	to 730 m	Y	Y	N	N	N	Canada Newfoundland	SCR 97/42

Stock name: Greenland halibut in Division 1A inshore																
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.
Inshore longline	Disko Bay Uummannaq Upernivik (2 a year)	Jul-Aug	since 1993	Fixed station Longlines	Greenland Halibut	30 in each location (60 a year)	Yes	?	200-900m	N	N	Y	Y	Y	Greenland	98/44
Inshore longline	Disko Bay Uummannaq Upernivik (2 a year)	Jul-Aug	Since 1993	Fixed station Longline	Greenland Halibut	30 in each location (60 a Year)	Yes	?	200-900m	N	N	Y	Y	Y	Greenland	00/29 00/47
Inshore longline	Disko Bay Uummannaq Upernivik (2 a year)	Jul-Aug	Since 1993	Fixed station Longline	Greenland Halibut	30	Yes	?	200-900m	N	N	Y	Y	Y	Greenland	01/68
Inshore longline	Disko Bay Uummannaq Upernivik (2 a year)	Jul-Aug	Since 1993	Fixed station Longline	Greenland Halibut	50	Yes	?	200-900m	N	N	Y	Y	Y	Greenland	05/58
Inshore juvenile G. halibut	Disko Bay	July	Since 2001	Gillnet	Greenland Halibut	19 in total	Yes	?	200-700m	N	N	Y	Y	Y	Greenland	05/58
Inshore juvenile G. halibut	Disko Bay	Jul-Aug	2001 and 2004	Gillnet and longline calibration	Greenland halibut		Yes	?	200-700m	N	N	Y	Y	Y	Greenland	05/57

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 (%)		Research data related to stock size estimates				Individual weights		SCS/ SCR Doc. No
									Depth range	abundance	bio-mass	ALK	LF			
Greenland Deep Sea	1CD	Sep-Nov	Since 1997	Stratified Random bottom Trawl	Greenland halibut Roundnose grenadier	51	Y	?	400-1500 m	Y	Y	Y	Y	Y	Greenland	SCR 05/13
Greenland Deep Sea	1A	Sep-Oct	2004	Stratified Random bottom Trawl	Greenland halibut	62	Y	?	50-1500	Y	Y	Y	Y	Y	Greenland	SCR 05/14
Canada Deep Sea	0A	Sep-Oct	1999, 2001, 2004	Stratified Random bottom Trawl	Greenland halibut	101	Y	?	400-1500	Y	Y	Y	Y	Y	Canada	SCR 05/56
Greenland Shrimp Trawl	1A-F	Jul-Sep	Since 1988	Stratified Random bottom Trawl	Shrimp Groundfish	209	N	?	50-600m	Y	Y	Y	Y	Y	Greenland	SCR 05/39

Stock name: Other Finfish 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	Research data related to stock size estimates				Individual weights	Country	SCS/SCR Doc. No.
West Greenland groundfish	1B - 1F	Oct-Nov	since 1982	Stratified random bottom trawl	Cod, redfish Other finfish	65	N	80	0-400m	Y	Y	N	Y	U	EU-Germany	SCS 05/20
Greenland/ Deepsea	1A - 1D	Sep-Oct	1987-95 1997-2001	"	Greenland halibut Round nose grenadier	51	N/Y	?	100-1500m	Y	Y	N	Y	N	Greenland/	SCR 05/13
Greenland shrimp	1A - 1F	Jul-Aug	since 1992	"	Shrimp	209	N	?	0-600m	Y	Y	N	Y	N	Greenland	SCR 05/39

Stock name: Redfish in Divisions 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 distribution (%)	Depth range	abundance	bio-mass	ALK	LF	Individual weights	Country	SCS/SCR Doc. No.
USSR ground-fish	3O	Apr-Jun (mostly)	1983-91, 1993, 1994	Stratified-random Bottom trawl	Multi-species Groundfish	75-100	Y	Unknown	to 732 m	Y	Y	Y	Y	Sometimes	Russia	86/66
Canada ground-fish	3O	Apr-Jun	1971-90	Stratified-random Bottom trawl	Multi-species Groundfish	30-36 in redfish depths	Y	Unknown	to 367m	Y	Y	Y	Y	N	Canada	NAFO Studies No. 2
Canada ground-fish	3O	Oct-Dec series + Apr-May series	1991-04	Stratified-random Bottom trawl	Multi-species Groundfish	30-36 in redfish depths	Y	Unknown	93--732 m	Y	Y	Y	Y	Some Surveys	Canada	05/59

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	abundance	bio-mass	ALK	LF	Individual weights	Country	SCS/ SCR Doc. No.
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	Y	Y	Y	Y	Sometimes	USSR	86/66
USSR ground-fish	3L, 3N	Apr-Jun (mostly)	1983-91, 1993, 1994	Stratified-random Bottom trawl	Multi-species	approx. 48-3L	Y	Unknown	1977-82: to 732 m	Y	Y	Y	Y	Sometimes	USSR	86/66
USSR acoustic	3LN	Apr-Jun	1987-91, 1993	Acoustic	Multi-species	unknown midwater samp.	Y	Unknown	to 732 m	Y	Y	Y	Y	Sometimes	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	Sometimes	Canada	NAFO Studies No. 2
Canada redfish	3L	Jan	1990	Stratified-random Bottom trawl	Redfish	55	Y	Unknown	to 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	183-732 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	to 732 m	Y	Y	Y	Y	Y	Canada	NAFO Studies No. 2
Canada ground-fish	3LN	Oct-Dec + May-Jun	1990-03	Stratified-random Bottom trawl	Multi-species Groundfish	44-53 in depths 184-914 m	Y	Unknown	183-732 m	Y	Y	Y	Y	N	Canada	05/52

Stock name: Redfish in Divisions 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 distribution (%)	Depth range	Research data related to stock size estimates				Individual weights	Country	SCS/ SCR Doc. No.
USSR ground-fish	3O	Apr-Jun (mostly)	1983-91, 1993, 1994	Stratified-random Bottom trawl	Multi-species Groundfish	75-100	Y	Unknown	to 732 m	Y	Y	Y	Y	Sometimes	Russia	86/66
Canada ground-fish	3O	Apr-Jun	1971-90	Stratified-random Bottom trawl	Multi-species Groundfish	30-36 in redfish depths	Y	Unknown	to 367m	Y	Y	Y	Y	N	Canada	NAFO Studies No. 2
Canada ground-fish	3O	Oct-Dec series + Apr-May series	1991-04	Stratified-random Bottom trawl	Multi-species Groundfish	30-36 in redfish depths	Y	Unknown	93--732 m	Y	Y	Y	Y	Some Surveys	Canada	05/59

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	abundance	bio-mass	ALK	LF	Individual weights	Country	SCS/ SCR Doc. No.
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	Y Y	Y Y	Sometimes	USSR 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 approx. 42-3N	Y Y	Unknown	to 732 m	Y Y	Y Y	Y Y	Y Y	Sometimes	USSR USSR	86/66
USSR acoustic	3LN	Apr-Jun	1987-91, 1993	Acoustic	Multi-species	unknown midwater samp1.	Y	Unknown	to 732 m	Y Y	Y Y			Sometimes	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	Y Y	Y Y	Sometimes	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	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 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 Y	Y Y	Y	Canada	NAFO Studies No. 2
Canada ground-fish	3LN	Oct-Dec + May-Jun	1990-03	Stratified-random Bottom trawl	Multi-species Groundfish	44-53 in depths 184-914 m	Y	Unknown	to 732 m	Y Y	Y Y	Y Y	Y Y	N	Canada	05/52

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	177	N	100%	127-1400m	Y	Y	Y	Y	Y	EU/ESP EU/PRT	05/35

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	Research data related to stock size estimates				Individual weights	Country	SCS/ SCR Doc. No.
West Greenland Groundfish	1B - 1F	Oct-Nov	since 1982	Stratified random bottom trawl	Cod, redfish, other finfish	65	N	80	0-400m	Y	Y	N	Y	Y	EU-Germany	SCR 05/20
Greenland – Deepsea	1A - 1D	Sep-Oct	1987-95 since 1997	Stratified random bottom trawl	Greenland halibut, Roundnose Grenadier	51	N/Y	?	1-1500m	Y	Y	N	Y	N	Greenland	SCR 05/13
Greenland shrimp	1A - 1F	Jul-Aug	since 1992	Stratified random bottom trawl	Shrimp	209	N	?	0-600m	Y	Y	N	Y	N	Greenland	SCR 05/39

Stock name: Roughhead Grenadier in Subareas 2 and 3																
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.
Canadian Autumn Survey	2GHJ 3MLNO	Oct-Dec	1978	Stratified random <= 1994 Engel >=1995 Campelen	Groundfish Shellfish	645 in 2004	Yes		<1500		+			No	CAN	SCR 05/8
Canadian Spring Survey	3LNO	Spring May-July	1978	Stratified random <=1995 Engel >= 1996 Campelen	Groundfish Shellfish	309 in 2004	Yes		<730 m		+			No	CAN	SCR 05/8
Canadian deepwater	3MLN	August February Spring	1991 1994 1995	Bottom trawl	Groundfish				<1500	+	+		+	No	CAN	SCR 95/51
Spanish Surveys in Div. 3NO	3NO	May-June	1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Groundfish	120 in 2004	No		<1500	+	+		+	+	EU-ESP	SCR 05/28
EU Flemish Cap Surveys	3M	July	1988	Stratified Random (Lofoten)	Groundfish Shrimp	124 in 2004	No	Flemish Cap	< 720m	+	+	+	+	+	EU-ESP EU-PRT	SCR 05/29 SCR 05/36

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				Individual weights	Country	SCS/ SCR Doc. No.
Greenland Deep Sea	1CD	Sep-Nov	Since 1997	Stratified Random Bottom Trawl	Greenland halibut, Roundnose grenadier	51	Y	?	400-1500m	Y	Y	N	Y	N	Greenland	SCR 05/13

Stock name: Thorny skate 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 (2004)	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.
Canadian Groundfish (Spring)	Div. 3LNO	Spring (Apr-Jun)	1971-2004	Stratified random-bottom trawl	Groundfish & shellfish	321	Y	100	50 to 731m	Y	Y	N	Y	Y	Canada	05/49
Canadian Groundfish (Autumn)	Div. 3LN0	Autumn (Oct-Dec)	1990-2004 some sets in 2005	Stratified-random-bottom trawl	Groundfish & shellfish	392	Y	100	35 to 1 462m	Y	Y	N	Y	Y	Canada	05/49
Spanish Groundfish (Spring)	Div. 3LNO Regulatory Area	Spring (Apr-May)	1997-2004	Stratified-random-bottom trawl	Groundfish & shellfish	120	N	unknown	56 to 1 464m	Y	Y	N	Y	N	Spain	05/8, 26

Stock name: White hake 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 (2004)	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.
Canadian Groundfish (Spring)	Div. 3NO	Spring (Apr-Jun)	1971-2004	Stratified random-bottom trawl	Groundfish & shellfish	321	Y	100	50 to 731m	Y	Y	N	Y	Y	Canada	05/60, 66
Canadian Groundfish (Autumn)	Div. 3NO	Autumn (Oct-Dec)	1990-2004 some sets in 2005	Stratified-random-bottom trawl	Groundfish & shellfish	392	Y	100	35 to 1 462m	Y	Y	N	Y	Y	Canada	05/60, 66
Spanish Groundfish (Spring)	Div. 3NO Regulatory Area	Spring (Apr-May)	1997-2004	Stratified-random-bottom trawl	Groundfish & shellfish	120	N	unknown	56 to 1 464m	Y	Y	N	Y	N	Spain	05/8, 26

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				Individual weights	Country	SCS/ SCR Doc. No.
Canadian autumn groundfish	2J,3K, 3L	Autumn	78-04 2J3K 84-04 3L	Stratified-random Engel trawl 1978-94  2J3K Yankee trawl 1981-82 3L  Engel trawl 1984-94 3L  Campelen Trawl all areas 1995-04	Multispecies (Cod, flounders, G. halibut, Redfish & shellfish)	413 in 2004	Y	This column not appropriate for this species given differences in depth coverage and areas covered in the surveys.	2J3K in 2004 115-1474m  3L in 2004 32-731 m	Y	Y	Prior to 1994	Y	Y	Canada	05/53 05/8

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 distribution (%)	Depth range	Research data related to stock size estimates				Individual weights	Country	SCS/ SCR Doc. No.
Canadian Groundfish (Spring)	Div. 3LN0	Spring (Apr-Jun)	1971-04	Stratified Random - Bottom trawl	Multispecies	309	Y	100	55 to 731m	Y	Y	Previous to 1994	Y	Y	Canada	05/8
Canadian Groundfish (Autumn)	Div. 3LN0	Autumn (Oct-Dec)	1990-04	Stratified- Random - Bottom trawl	Multispecies	147-3L 69-3N 76-3O	Y	100	32 to 1446m	Y	Y	"	Y	Y	Canada	05/8
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: 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 (2004)	24 hr fishing	Area of coverage in relation to stock distribution (%)		Research data related to stock size estimates				Individual weights	Country	SCS/ SCR Doc. No.
Canadian Groundfish (Spring)	Div. 3LN0	Spring (Apr-Jun)	1971-2004	Stratified random-bottom trawl	Groundfish & shellfish	321	Y	100	50 to 731m	Y	Y	Y	Y	Y	Canada	05/55
Canadian Groundfish (Autumn)	Div. 3LN0	Autumn (Oct-Dec)	1990-2004 some sets in 2005	Stratified-random-bottom trawl	Groundfish & shellfish	392	Y	100	35 to 1 462m	Y	Y	Y	Y	Y	Canada	05/55
Spanish Groundfish (Spring)	Div. 3NO Regulatory Area	Spring (Apr-May)	1995-2003	Stratified-random-bottom trawl	Groundfish & shellfish	120	N	unknown	56 to 1 464m	Y	Y	N	N	N	Spain	05/25
Canadian DFO/Industry	Div. 3NO	Seasonal during 1997-98. Surveys in July of all yrs 1996-2003	1996-2003	Grid , fixed stations. Commercial unlined trawl. Grid expanded from 2000 on.	Yellowtail. By-catch info on A. plaice, cod, skates	141	Y	65-85	45-90m	N	N (only CPUE)	N	Y	N	Canada	05/9

Stock name: Shrimp 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				Individual weights	Country	SCS/ SCR Doc. No
Greenland Deep Sea	1CD	Sep-Nov	Since 1997	Stratified Random bottom Trawl	Greenland halibut Roundnose grenadier	35	Y	?	400-1500 m	Y	Y	Y	Y	Y	Greenland	SCR 04/19
Greenland Shrimp Trawl	1A-F	Jul-Sep	Since 1988	Stratified Random bottom Trawl	Shrimp Groundfish	197	N	?	50-600m	Y	Y	Y	Y	Y	Greenland	SCR 04/18
West Greenland Trawl Survey	SA 1 & Canadian SFA1	Jul-Aug	1988-date	Design: stratified semi-systematic random; partly fixed. Ger: Cosmos 2000	<i>Pandalus borealis</i> ; groundfish	194 <sup>1</sup>	N	95	150-600	Y	Y	N	Y	Y	Greenland	SCR 05/74

<sup>1</sup> excluding additional hauls at some stations for gear comparison and calibration.

Stock name: Northern Shrimp in Divisions 3LN0																
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
Multi-species Spring Survey	3LNOP	May to June	1999 to present	Campelen 1800 research shrimp trawl	Multispecies	310	Yes	100%	<100-731 m	Y	Y	N	Y	Y	Canada	SCR 96/50, 96/27, 05/8 & 05/88
Multi-species Autumn Survey	3LNO	Oct-Jan	1995 to present	Campelen 1800 research shrimp trawl	Multispecies	310	Yes	100%	<100-1500 m	Y	Y	N	Y	Y	Canada	SCR 96/50, 96/27, 05/8 & 05/88

Stock name: Shrimp in Denmark Strait																
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
East Greenland shrimp survey  No surveys since 1996	ICES XIVb	Sep	1989-1996 (except 1991 and 1993)	Spline survey, bottom shrimp trawl	Northern shrimp	40	No	Not known	200-600 m	N	N	N	Y	N	Greenland	96/116

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 distribution (%)	Depth range	Research data related to stock size estimates				Individual weights	Country	SCS/ SCR Doc. No
EU- survey	3M	Jul-Aug	18	Demersals	Cod, American plaice, redfish Greenland halibut, Grenadiers, Shrimp	195	N	100%	60-800 fathoms	Y	Y	ALK	LF	Y	EU/Spain EU/Portugal	SCR 05/78