

NORTHWEST ATLANTIC FISHERIES ORGANIZATION



Scientific Council Studies
Number 45

NAFO Research Vessel Stock-by-Stock
Surveys Summary 2000–2010

2013



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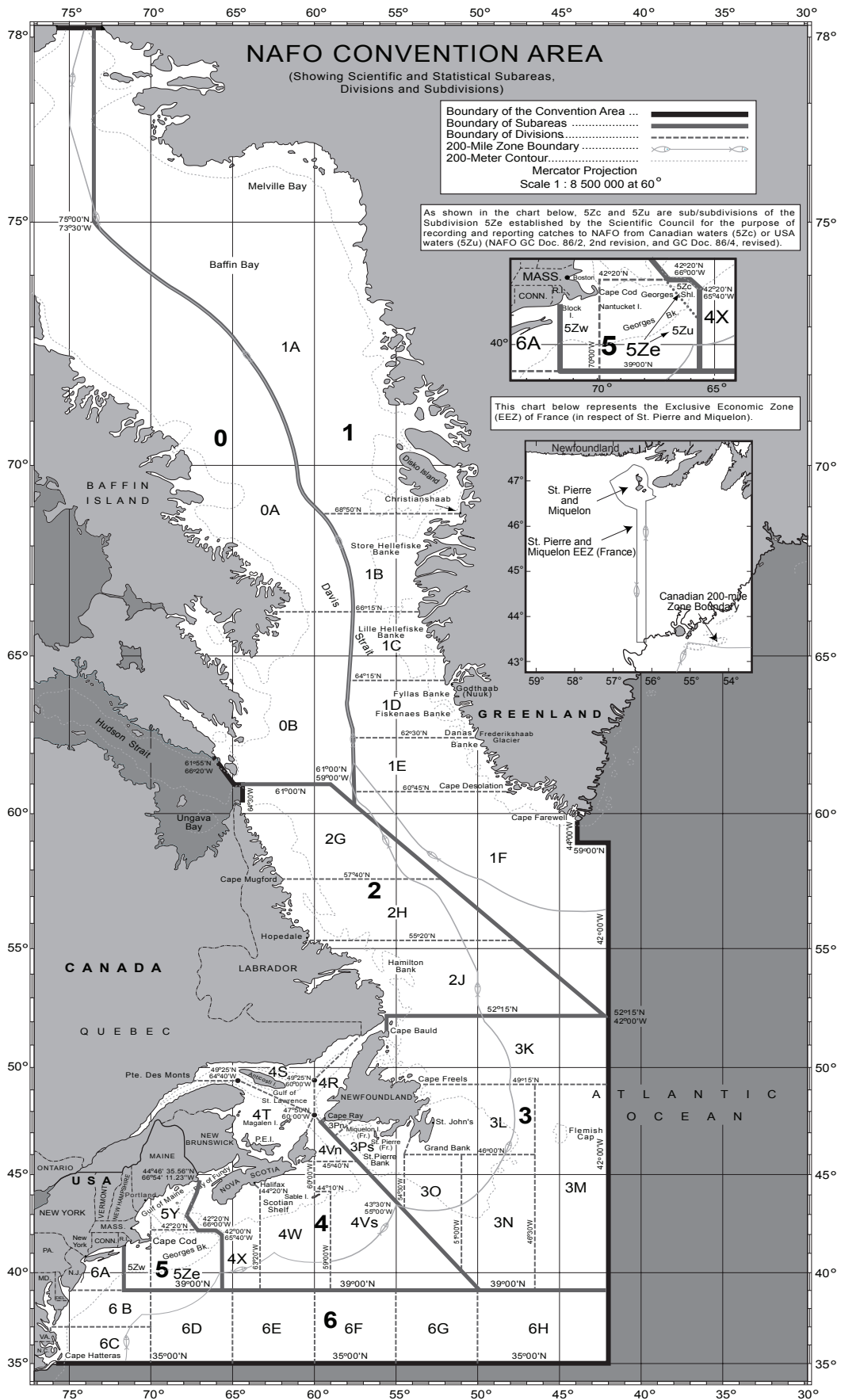
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NAFO CONVENTION AREA

(Showing Scientific and Statistical Subareas, Divisions and Subdivisions)

Boundary of the Convention Area ...

Boundary of Subareas

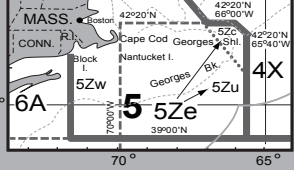
Boundary of Divisions

200-Mile Zone Boundary

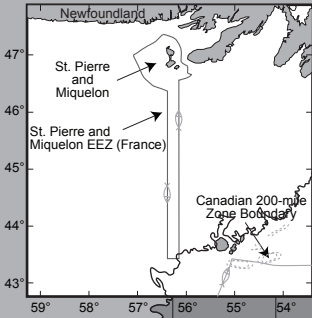
200-Meter Contour

Mercator Projection
Scale 1 : 8 500 000 at 60°

As shown in the chart below, 5Zc and 5Zu are sub/subdivisions of the Subdivision 5Ze established by the Scientific Council for the purpose of recording and reporting catches to NAFO from Canadian waters (5Zc) or USA waters (5Zu) (NAFO GC Doc. 86/2, 2nd revision, and GC Doc. 86/4, revised).



This chart below represents the Exclusive Economic Zone (EEZ) of France (in respect of St. Pierre and Miquelon).



Stock-by-Stock Research Vessel Surveys Reported During 2001–2010

NAFO Secretariat

NAFO Secretariat. 2013. NAFO Research Vessel Stock-by-Stock Surveys Summary 2000–2010. *Scientific Council Studies*, **45**: 1–91. doi:10.2960/S.v45.m1

The Scientific Council at its meeting in June 1990 agreed to compile an inventory and information on research vessel surveys conducted with respect to stocks assessed by the Scientific Council (SCS Doc. 90/22). This inventory was judged to be a useful reference and very helpful for the establishment of other inventories. During its meeting in June 1991 the Council agreed that the Designated Experts for the stocks should update the information annually (*NAFO Sci. Coun. Rep.*, 1991, p. 37) for review by STACFIS. Since 1991, the inventory has been compiled annually and presented to the Scientific Council in the form of Scientific Council Summary Documents. A collation of this information was published as part of the NAFO Scientific Council Studies series in 2001 (NAFO Sci. Coun. Studies, 34: 19–83).

A review of the annual inventories showed that there often were revisions and updates from one year to the next, and consequently readers of the SCS Document series may experience difficulties in interpreting the information. The Secretariat therefore took the initiative to compile a decadal publication. Noting this represented the best interpretation of the available information; Designated Experts responsible for stock assessments were requested to verify the accuracy of this compilation.

The following tabulations were compiled by the Secretariat in order to provide a comprehensive overview of surveys during the 2001–2010 decade used for stock assessments by the Scientific Council. Information supplied in the SCS Documents were collated and edited as needed, and the SCR Documents cited in them were checked and corrections made to the tables when necessary.

This paper is compiled in the format designed by the Scientific Council in 1990s. Stock-by-Stock tabulations are listed with the northernmost stock first and progressing southwards. The following is the sequence of presentation:

Greenland halibut in Subarea 0 +Divisions IB–IF	Cod in Divisions 3N and 3O
Greenland halibut in Division 1A	Redfish in Divisions 3L and 3N
Roundnose grenadier in Subareas 0 and 1	American plaice in Divisions 3LNO
Northern shrimp in Subareas 0+1	Yellowtail flounder in Divisions 3LNO
Redfish in Subarea 1	Northern shrimp in Divisions 3LNO
Other Finfish in Subarea 1	Witch flounder in Divisions 3LNO
Northern shrimp in ICES Subarea XIV (Denmark Strait)	Capelin in Divisions 3NO
Cod in Division 2J and 3KL	White hake in Divisions 3NOPs
Greenland halibut in Divisions 2J and 3KLMNO	Thorny skate in Divisions 3LNOPs
Witch flounder in Divisions 2J and 3KL	Redfish in Division 3O
Cod in Division 3M	Elasmobranchs in Subareas 2–6
Redfish in Division 3M	Roughhead grenadier in Subareas 2 and 3
American plaice in Division 3M	Short-finned squid in Subareas 3 and 4
Northern shrimp in Division 3M	Short-finned squid in Subareas 5 and 6

References to pertinent documents are noted in the tables and a complete list of documents cited is listed at the end.

Stock name: Greenland halibut in Subarea 0, Division 1A offshore and Divisions 1B-F

Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	bio-mass	ALK	LF	Individual weight	Country	SCR Doc. No.
2009	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	Greenland halibut Roundnose grenadier	482	Y	?	400–1500	Y	Y	Y	N	Y	Y	Green-land	10/21
2008	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	Greenland halibut Roundnose grenadier	70	Y	?	400–1500	Y	Y	Y	N	Y	Y	Green-land	09/12
2007	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	Greenland halibut Roundnose grenadier	50	Y	?	400–1500	Y	Y	Y	N	Y	Y	Green-land	08/32
2006	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	Greenland halibut Roundnose grenadier	61	Y	?	400–1500	Y	Y	Y	N	Y	Y	Green-land	07/18
2005	Green-land Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random Campelen trawl	Greenland halibut Roundnose grenadier	61	Y	?	400–1500	Y	Y	Y	N	Y	Y	Green-land	06/34
2004	Green-land Deep Sea	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	?	44–675	Y	Y	Y	N	Y	Y	Green-land	05/64
2003	Green-land Deep Sea	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	?	39–726	Y	Y	Y	N	Y	Y	Green-land	04/48
2002	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	Greenland halibut Roundnose grenadier	35	N/Y	?	400–1500	Y	Y	Y	N	Y	Y	Green-land	SCR 03/20
2001	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	Greenland halibut Roundnose grenadier	42	N/Y	?	400–1500	Y	Y	Y	N	Y	Y	Green-land	SCR 02/30
2000	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	Greenland halibut Roundnose grenadier	30	Y	?	400–1500	Y	Y	Y	N	Y	Y	Green-land	SCR 01/23

NAFO Secretariat: NAFO Research Vessel Stock-by-Stock Surveys Summary 2000–2010

Stock name: Greenland halibut in Subarea 0, Division 1A offshore and Divisions 1B–F																	
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock mates	bio-ALK LF	Individual weight	Country	SCR Doc. No.		
2009	Green-land Shrimp Trawl	1A–F	Jul–Sep	Since 1988	Stratified random bottom trawl, Cosmos trawl	Shrimp and groundfish	299	N	?	50–600	Y	Y	N	Y	Y	Green-land	10/21
2008	Green-land Shrimp Trawl	1A–F	Jul–Sep	Since 1988	Stratified random bottom trawl, Cosmos trawl	Shrimp and groundfish	252	N	?	50–600 (950)	Y	Y	Y	Y	Y	Green-land	09/12
2007	Green-land Shrimp Trawl	1A–F	Jul–Sep	Since 1988	Stratified random bottom trawl, Cosmos trawl	Shrimp and groundfish	254	N	?	50–600 (800)	Y	Y	Y	Y	Y	Green-land	08/32
2006	Green-land Shrimp Trawl	1A–F	Jul–Sep	Since 1988	Stratified random bottom trawl, Cosmos trawl	Shrimp and groundfish	244	N	?	50–600	Y	Y	Y	Y	Y	Green-land	SCR 07/28
2005	Green-land Shrimp Trawl	1A–F	Jul–Aug	Since 1988	Stratified random bottom trawl	Shrimp and groundfish	212	N	?	50–600	Y	Y	Y	Y	Y	Green-land	06/34
2004	Green-land Shrimp Trawl	1A–F	Jul–Sep	Since 1988	Stratified random bottom trawl	Shrimp and groundfish	209	N	?	50–600m	Y	Y	Y	Y	Y	Green-land	SCR 05/39
2003	Green-land Shrimp Trawl	1AF	Jul–Sep	Since 1988	Stratified Random	Shrimp and groundfish	197	N	–	to 600	Y	Y	Y	Y	Y	Green-land	04/18
2002	Green-land Shrimp Trawl	1A–F	Jul–Sep	Since 1988	Stratified random bottom trawl	Shrimp and groundfish	225	N	?	50–600	Y	Y	Y	Y	Y	Green-land	SCR 03/29

Stock name: Greenland halibut in Subarea 0, Division 1A offshore and Divisions 1B-F																	
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock mates	bio-ALK LF	Individual weight	Country	SCR Doc. No.		
2001	Green-land Shrimp Trawl	1A-F	Jul-Sep	Since 1988	Stratified random bottom trawl	Shrimp and groundfish	234	N	?	0-600	Y	Y	Y	Y	Y	Green-land	SCR 02/48
2000	Green-land Shrimp Trawl	1A-F	Jul-Sep	Since 1988	N/A	Shrimp and groundfish	232	N	?	0-600	Y	Y	Y	Y	Y	Green-land	SCR 01/35
2009	Canada Deep Sea	0A	Oct-Nov	Since 1999 not annually, Not in 2009	Stratified random bottom trawl Alfredo trawl	Greenland halibut	120	Y	?	400-1500	Y	Y	Y	Y	Y	Canada	SCR 11/17
2008	Canada Deep Sea	0A	Oct-Nov	Since 1999 not annually	Stratified random bottom trawl Alfredo trawl	Greenland halibut	86	Y	?	400-1500	Y	Y	Y	Y	Y	Canada	SCR 09/26
2007	NO SURVEY																
2006	Canada Deep Sea	0A	Oct-Nov	1999-2001-2004-2006	Stratified random bottom trawl Alfredo trawl	Greenland halibut; groundfish	62	Y	?	400-1500	Y	Y	N	Y	Y	Canada	SCR 07/41
2005	NO SURVEY																
2004	Canada Deep Sea	0A	Oct-Nov	1999-2001-2004	Stratified random bottom trawl	Greenland halibut	101	Y	?	400-1500	Y	Y	N	Y	Y	Canada	SCR 05/56
2003	NO SURVEY																
2002	NO SURVEY																
2001	Canada Deep Sea	0AB	Sep-Oct	1999, 2001, 2004, 2006	Stratified random	Greenland halibut	48/36	Y		400-1500	Y	Y	Y	Y	-	Canada	02/47, 08/35
2000	NO SURVEY																

NAFO Secretariat: NAFO Research Vessel Stock-by-Stock Surveys Summary 2000–2010

Stock name: Greenland halibut in Subarea 0, Division 1A offshore and Divisions 1B–F																
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock mates	bio- abundance	ALK LF	Individual weight	Country	SCR Doc. No.
2009	Green-land Deep Sea, Baf-fin Bay	1A	Sep–Oct	2001, 2004, 2010	Stratified random bottom trawl Alfredo trawl	Greenland halibut	97	Y	?	400–1500	Y	Y	Y	Y	Green-land	SCR 11/10
2008	NO SURVEY															
2007																
2006																
2005																
2004	Green-land Deep Sea	1A	Sep–Oct	2004	Stratified random bottom trawl	Greenland halibut	62	Y	?	50–1500	Y	Y	Y	Y	Green-land	SCR 05/14
2003	NO SURVEY															
2002																
2001	Green-land Deep Sea	1AB	Sep–Oct	2001	Stratified random bottom trawl	Greenland halibut, Groundfish	79	Y	?	1–1500	Y	Y	Y	Y	Green-land	SCR 02/30
2000	NO SURVEY															
2009																
2008																
2007																
2006	Canada 0A, shrimp trawl	0A	Aug–Sep	2006 only	Stratified random bottom trawl Cosmos	<i>Pandalus</i> sp.(Shrimp), Groundfish	88	Y	?	100–800	Y	Y	N	Y	Canada	SCR 07/41
2005																
2004																
2003																
2002																
2001																
2000																

NAFO Secretariat: NAFO Research Vessel Stock-by-Stock Surveys Summary 2000–2010

Stock Name: Greenland halibut in Division 1A inshore																	
Year	Survey	Location	Month(s)	Year of Survey from/ to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates			Indi-vidual weight	Country	SCR Doc. No.	
											abun-	biomass	ALK	LF			
2009	Inshore juvenile GRL	Disko Bay	July	2001–2008, 2010	Stratified random Campelen trawl	Green-land Halibut	482	Y	N/I	200–700	N	N	N	Y	Y	Green-land	10/21
2008	Inshore juvenile GRL	Disko Bay	July	2001	Stratified random Campelen trawl	Green-land Halibut	30	Y	N/I	200–700	N	N	N	Y	Y	Green-land	09/12
2007	Inshore juvenile GRL	Disko Bay	July	Since 2001	Stratified random Campelen trawl	Green-land Halibut	30	Y	N/I	200–700	N	N	N	Y	Y	Green-land	08/32
2006	Inshore juvenile GRL	Disko Bay	July	Since 2001	Stratified random Campelen trawl	Green-land Halibut	44	Y	N/I	200–700	N	N	N	Y	Y	Green-land	07/18
2005	Inshore juvenile GRL	Disko Bay	July	Since 2001	Stratified random Campelen trawl	Green-land Halibut	47	Y	N/I	200–700	N	N	N	Y	Y	Green-land	06/34
2004	Inshore juvenile GRL	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	N/I	44–675	N	N	N	Y	Y	Green-land	05/64
2003	N/I	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	N/I	39–726	N	N	N	Y	Y	Green-land	04/48
2002	Inshore juvenile GRL	Disko Bay	July	Since 2001	Stratified random Campelen trawl	Green-land Halibut	40	Y	N/I	200–700	N	N	N	Y	Y	Green-land	03/49
2001	N/I				Stratified random Campelen trawl									N			
2000	N/I				Stratified random Campelen trawl									N			
2009	Inshore juvenile GRL	Disko Bay	July	2001–2008, 2010	Gilnet and longline calibration	Green-land Halibut	0	Y	N/I	200–700	N	N	N	Y	Y	Green-land	May–57 10/21

Stock Name: Greenland halibut in Division 1A inshore																		
Year	Survey	Location	Month(s)	Year of Survey from/ to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates			Indi-vidual weight	Country	SCR Doc. No.		
											abun-	biomass	ALK	LF				
2008	Inshore juvenile GRL	Disko Bay	July	2001	Gillnet and longline calibration	Green-land Halibut	0	Y	N/I	200-700	N	N	Y	Y	Y	Y	Green-land	09/12
2007	Inshore juvenile GRL	Disko Bay	July	Since 2001	Gillnet and longline calibration	Green-land Halibut	0	Y	N/I	200-700	N	N	Y	Y	Y	Y	Green-land	08/32
2006	Inshore juvenile GRL	Disko Bay	July	Since 2001	Gillnet and longline calibration	Green-land Halibut	3	Y	N/I	200-700	N	N	Y	Y	Y	Y	Green-land	05/57
2005	Inshore juvenile GRL	Disko Bay	July	Since 2001	Gillnet and longline calibration	Green-land Halibut	19	Y	N/I	200-700	N	N	Y	Y	Y	Y	Green-land	06/34
2004	Inshore juvenile GRL	Disko Bay	July-Aug	Since 2001	Gillnet and longline calibration	Green-land Halibut	19 in total with the other juv survey	Y	N/I	200-700	N	N	Y	Y	Y	Y	Green-land	05/57
2003	N/I																	
2002	N/I																	
2001	N/I																	
2000	N/I																	
2009	Inshore longline	Ummann-naq	Aug	Since 1993-2007	Fixed station longline	GRH	0	Y	N/I	200-900	N	N	Y	Y	Y	Y	Green-land	98/44 00/29 00/47 01/68 08/38 10/43
2008	Inshore longline	Ummann-naq	Aug	Since 1993	Fixed station longline	GRH	21	Y	N/I	200-900	N	N	Y	Y	Y	Y	Green-land	98/44 00/29 00/47 01/68 08/38
2007	Inshore longline	Ummann-naq	Aug	Since 1993	Fixed station longline	GRH	21	Y	N/I	200-900	N	N	Y	Y	Y	Y	Green-land	98/44 00/29 00/47 01/68 08/38

NAFO Secretariat: NAFO Research Vessel Stock-by-Stock Surveys Summary 2000–2010

Stock Name: Greenland halibut in Division 1A inshore																		
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Indi-vidual weight	Country	SCR Doc. No.		
											Stock size estimates		biomass					
											abun-	biomass	ALK	LF				
2006	Inshore longline	Ummann-naq	Aug	Since 1993	Fixed station longline	GRH	11	Y	N/I	200–900	N	N	Y	Y	Y	Green-land	98/44 00/29 00/47 01/68 06/35	
2005	Inshore longline	Ummann-naq	Aug	Since 1993	Fixed station longline	GRH	21	Y	N/I	200–900	N	N	Y	Y	Y	Green-land	98/44 00/29 00/47 01/68 06/35	
2004	Inshore longline	Disko Bay Ummannmannaq Upernavik (2/yr)	Jul–Aug	Since 1993	Fixed station longline	GRH	30 each location (60/yr)	Y	N/I	200–900	N	N	Y	Y	Y	Green-land	98/44	
2003	Inshore longline	N/I																
2002	Inshore longline	Disko Bay Ummannmannaq Upernavik (2/yr)	Jul–Aug	Since 1993	Fixed station longline	GRH	30 each location (60/yr)	Y	N/I	200–900	N	N	Y	Y	Y	Green-land	98/44	
2001	Inshore longline	N/I																
2000	Inshore longline	Disko Bay Ummannmannaq Upernavik (2/yr)	Jul–Aug	Since 1993	Fixed station longline	GRH	30 each location (60/yr)	Y	N/I	200–900	N	N	Y	Y	Y	Green-land	98/44	
2009	Inshore longline	Disko Bay	July	Since 1993	Fixed station longline	GRH	0	Y	N/I	200–700	N	N	Y	Y	Y	Green-land	98/44 00/29 00/47 01/68 08/38	

Stock Name: Greenland halibut in Division 1A inshore

Year	Survey	Location	Month(s)	Year of Survey from/ to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribu-tion (%)	Depth Range (m)	Research data related to stock				Country	SCR Doc. No.	
											Stock size estimates	abun-dance	biomass	ALK LF			Indi-vidual weight
2000	Inshore longline	Disko Bay	Jul–Aug	Since 1993	Fixed station longline	GRH	30 each loca-tion (60/yr)	Y	N/I	200–1200	N	N	Y	Y	Y	Green-land	01/68
2009	Inshore longline	N/I															
2008	Inshore longline	N/I															
2007	Inshore longline	N/I															
2006	Inshore longline	N/I															
2005	Inshore longline	N/I															
2004	Inshore longline	Disko Bay	Jul–Aug	Since 1993	Fixed station longline	GRH	50	Y	N/I	200–900	N	N	Y	Y	Y	Green-land	05/58
2003	Inshore longline	N/I															
2002	Inshore longline	Disko Bay	Jul–Aug	Since 1993	Fixed station longline	GRH	30	Y	N/I	200–900	N	N	Y	Y	Y	Green-land	03/49
2001	Inshore longline	N/I															
2000	Inshore longline	N/I															
2009	Green-land shrimp	1A	Jul–Sep	Since 1991	Stratified random trawl	shrimp	25	N	N/I	50–600	Y	Y	N	Y	Y	Green-land	11/24

Stock name: Roundnose Grenadier in Subarea 0+1																		
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates	Stock size estimates	Stock biomass	ALK	LF	Individual weight	Country	SCR Doc. No.
2009	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	482	Y		400–1500	Y	Y	N	Y	N	N	Green-land	10/21
2008	Green-land Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	70	Y		400–1500	Y	Y	N	Y	N	N	Green-land	09/12
2007	Green-land Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	501	Y		400–1500	Y	Y	N	Y	N	N	Green-land	08/32
2006	Green-land Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	61	Y		400–1500	Y	Y	N	Y	N	N	Green-land	07/18
2005	Green-land Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	51	Y		400–1500	Y	Y	N	Y	N	N	Green-land	06/34
2004	Green-land Deep Sea	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y		44–675	Y	Y	N	Y	N	N	Green-land	05/64
2003	Green-land Deep Sea	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y		39–726	Y	Y	N	Y	N	N	Green-land	04/48
2002	Green-land Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	35	N/Y		400–1500	Y	Y	N	Y	N	N	Green-land	03/20
2001	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	42	N/Y		400–1500	Y	Y	N	Y	N	N	Green-land	02/30
2000	Green-land Deep Sea	ICD	Sep–Oct	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	30	N		400–1500	Y	Y	N	Y	N	N	Green-land	01/23

NAFO Secretariat: NAFO Research Vessel Stock-by-Stock Surveys Summary 2000–2010

Stock name: Roundnose Grenadier in Subarea 0+1																	
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates	biomass	ALK	LF	Indiv-vidual weight	Country	SCR Doc. No.
2009	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random Campelen trawl	GRH, Round-nose grenadier	482	Y		400–1500	Y	Y	N	Y	N	Green-land	10/21
2001	Canadian Deep Sea	OAB	Sep–Oct	2001	Stratified random bottom trawl	GRH	84	Y		400–1500	Y	Y	N	Y	N	Canada	10/21
no info for any other year																	
08/32																	
06/34																	

Stock name: Northern Shrimp in Subarea 0+1																	
Year	Survey	Location	Month(s)	Year of survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Individual weight	Country	SCR Dec. No.	
											Stock size estimates						
											abun-	biomass	ALK	LF			
2010	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Jun-July	Since 1988	Stratified random Campelen trawl	Northern shrimp; ground-fish	482	N	95	150-600	Y	Y	N	Y	Y	Green-land	10/21
2009	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Jun-July	Since 1988	Stratified random Campelen trawl	Northern shrimp; ground-fish	271	N	95	150-600	Y	Y	N	Y	Y	Green-land	09/12
2008	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Jun-July	Since 1988	Stratified random Campelen trawl	Northern shrimp; ground-fish	258	N	95	150-600	Y	Y	N	Y	Y	Green-land	08/32
2007	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Jun-Aug	Since 1988	Stratified random Campelen trawl	Northern shrimp; ground-fish	254	N	95	150-600	Y	Y	N	Y	Y	Green-land	07/18
2006	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Jul-Aug	Since 1988	Stratified random Campelen trawl	Northern shrimp; ground-fish	244	N	95	150-600	Y	Y	N	Y	Y	Green-land	06/34
2005	West Green-land Trawl Survey	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	95	44-675	Y	Y	N	Y	Y	Green-land	05/64
2004	West Green-land Trawl Survey	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	95	39-726	Y	Y	N	Y	Y	Green-land	04/48
2003	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Jul-Aug	Since 1988	Stratified random Campelen trawl	Northern shrimp; ground-fish	199	N	95	150-600	Y	Y	N	Y	Y	Green-land	10/30

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Stock name: Northern Shrimp in Subarea 0+1																		
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Individual weight	Country	SCR Dec. No.		
											Stock size estimates		ALK		LF			
											abun-	biomass						
2002	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Jul–Aug	Since 1988	Stratified random Campelen trawl	Northern shrimp; ground-ground-fish	227	N	95	150–600	Y	Y	N	Y	Y	Green-land	10/30	
2001	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Aug	Since 1988	Stratified random Campelen trawl	Northern shrimp; ground-ground-fish	236	N	95	150–600	Y	Y	N	Y	Y	Green-land	02/148	
2000	West Green-land Trawl Survey	SA0+1 (West Greenland Shelf)	Aug	Since 1988	Stratified semi-sys-tematic trawl: Skiervoy 3000 w/ bobbins	Northern shrimp; ground-ground-fish	221	N	95	150–600	Y	Y	N	Y	Y	Green-land	10/21	
1 excluding additional hauls at some stations for gear comparison and calibration																		
2004	Green-land Deep Sea	ICD	Sep–Nov	Since 1997	Stratified random bottom trawl	Green-land halibut Round-nose grenadier	35	Y	?	400–1500	Y	Y	Y	Y	Y	Green-land	04/19	
08/32																		
2004	Green-land Shrimp Trawl	IAF	Jul–Sep	Since 1988	Stratified random bottom trawl	Shrimp and ground-fish	197	N	?	50-600	Y	Y	Y	Y	Y	Green-land	06/34	

Stock name: Redfish Subarea 1																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance - biomass	Stock size estimates	ALK L F	Indiv-vidual weight	Country	SCR Doc. No.	
2009	West Greenland groundfish	IBF	Oct-Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	482	N	80	0-400	Y	Y	N	Y	Y	EU-Ger-many	10/21
2008	West Greenland groundfish	IBF	Oct-Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	50	N	80	0-400	Y	Y	N	Y	Y	EU-Ger-many	09/12
2007	West Greenland groundfish	IBF	Oct-Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	47	N	80	0-400	Y	Y	N	Y	Y	EU-Ger-many	08/32
2006	West Greenland groundfish	IBF	Oct-Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	50	N	80	0-400	Y	Y	N	Y	Y	EU-Ger-many	07/18
2005	West Greenland groundfish	IBF	Oct-Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	41	N	80	0-400	Y	Y	N	Y	Y	EU-Ger-many	06/34
2004	West Greenland groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	80	44-675	Y	Y	N	Y	Y	EU-Ger-many	05/64
2003	West Greenland groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	80	39-726	Y	Y	N	Y	Y	EU-Ger-many	04/48
2002	West Greenland groundfish	IBF	Oct-Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	32	N	80	0-400	Y	Y	N	Y	Y	EU-Ger-many	04/28
2001	West Greenland groundfish	IBF	Oct-Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	54	N	80	0-400	Y	Y	N	Y	Y	EU-Ger-many	SCS 02/9 SCR 02/23
2000	West Greenland groundfish	IBF	Oct-Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	73	N	80	0-400	Y	Y	N	Y	Y	EU-Ger-many	01/15

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Stock name: Redfish Subarea 1																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Indi-vidual weight	Country	SCR Doc. No.	
											Stock size estimates	abun-	biomass	ALK	LF		
2009	Greenland Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	66	N	400–1500	Y	Y	N	Y	N	N	Greenland	10/21
2008	Greenland Deep Sea	ICD	(No Sugges-tions)	Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	70	N	400–1500	Y	Y	N	Y	N	N	Greenland	09/12
2007	Greenland Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	50	Y	400–1500	Y	Y	N	Y	N	N	Greenland	08/32
2006	Greenland Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	61	Y	400–1500	Y	Y	N	Y	N	N	Greenland	07/29
2005	Greenland Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	61	Y	400–1500	Y	Y	N	Y	N	N	Greenland	06/34
2004	Greenland Deep Sea	IAD	Sep–Oct	1987-95, Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	51	N/Y	1–1500	Y	Y	N	Y	N	N	Greenland	05/13
2003	Greenland Deep Sea	ICD	Sep–Oct	Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	35	Y	400–1500	Y	Y	N	Y	N	N	Greenland	04/19
2002	Greenland Deep Sea	ICD	Sep–Oct	Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	35	Y	400–1500	Y	Y	N	Y	N	N	Greenland	03/20

Stock name: Redfish Subarea 1																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Indi-vidual weight	Country	SCR Doc. No.	
											Stock size estimates		biomass				
											abun-	ALK	LF				
											dance						
2001	Greenland Deep Sea	IAD	Sep-Oct	1987-96, Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	121	N/Y		1-1500	Y	Y	N	Y	N	Green-land	02/30
2000	Greenland Deep Sea	IAD	Sep-Oct	1987-96, Since 1997	Stratified random bottom trawl	GRH, Round-nose grenadier	30	N	80	600-1500	Y	Y	N	Y	N	Green-land	01/23
2009	Greenland Shrimp	IAF	Jul-Aug	Since 1992	Stratified random bottom trawl	Shrimp, Ground-fish	289	N		50-600	Y	Y	N	Y	N	Green-land	11/24
2008	Greenland Shrimp	IAF	Jul-Aug	Since 1991	Stratified random bottom trawl	Shrimp, Ground-fish	252	N	80	50-598	Y	Y	N	Y	N	Green-land	09/20
2007	Greenland Shrimp	IAF	Jul-Aug	Since 1992	Stratified random bottom trawl	Shrimp, Ground-fish	254	N	80	50-599	Y	Y	N	Y	N	Green-land	08/28
2006	Greenland Shrimp	IAF	Jul-Aug	Since 1992	Stratified random bottom trawl	Shrimp	244	N			Y	Y	N	Y	N	Green-land	07/28
2005	Greenland Shrimp	IAF	Jul-Aug	Since 1992	Stratified random bottom trawl	Shrimp	121	N		50-600	Y	Y	N	Y	N	Green-land	06/28
2004	Greenland Shrimp	IAF	Jul-Aug	Since 1992	Stratified random bottom trawl	Shrimp	209	N		0-600	Y	Y	N	Y	N	Green-land	05/39
2003	Greenland Shrimp	IAFDNX	Jul-Sep	Since 1992	Stratified random bottom trawl	Shrimp	197	N		600	Y	Y	N	Y	N	Green-land	04/18
2002	Greenland Shrimp	IAFDNX	Jul-Sep	Since 1992	Stratified random bottom trawl	Shrimp	225	N		600	Y	Y	N	Y	N	Green-land	03/29

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Stock name: Redfish Subarea 1																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of fish- ing sets	24 hr fish- ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance biomass	Stock size estimates	ALK LF	Indi- vidual weight	Country	SCR Doc. No.	
2001	Greenland Shrimp	IAF	Jul–Aug	Since 1992	Stratified random bottom trawl	Shrimp	234	N	0–600	Y	Y	N	Y	N	Green-land	02/48	
2000	Greenland Shrimp	IAF	Jul–Aug	Since 1992	Stratified random bottom trawl	Shrimp	232	N	80	0–600	Y	Y	N	Y	N	Green-land	01/35

Stock name: Other finfish Sub-area 1																		
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance	Stock size estimates	biomass	ALK	LF	Indi-vidual weight	Country	SCR Doc. No.
2009	West Greenland groundfish	IBF	Oct–Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	482	N	N/I	0–400	Y	Y	Y	N	Y	U	EU–Ger- many	10/21
2008	West Greenland groundfish	IBF	Oct–Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	50	N	N/I	0–400	Y	Y	Y	N	Y	U	EU–Ger- many	09/12
2007	West Greenland groundfish	IBF	Oct–Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	47	N	N/I	0–400	Y	Y	Y	N	Y	U	EU–Ger- many	08/32
2006	West Greenland groundfish	IBF	Oct–Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	50	N	N/I	0–400	Y	Y	Y	N	Y	U	EU–Ger- many	07/18
2005	West Greenland groundfish	IBF	Oct–Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	65	N	80	0–400	Y	Y	Y	N	Y	U	EU–Ger- many	06/34
2004	West Greenland groundfish	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	80	44–675	Y	Y	Y	N	Y	U	EU–Ger- many	05/64
2003	West Greenland groundfish	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	80	39–726	Y	Y	Y	N	Y	U	EU–Ger- many	04/48
2002	West Greenland groundfish	IBF	Oct–Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	32	N	80	0–400	Y	Y	Y	N	Y	U	EU–Ger- many	03/15
2001	West Greenland groundfish	IBF	Oct–Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	59	N	80	0–400	Y	Y	Y	N	Y	U	EU–Ger- many	02/0, 02/22
2000	West Greenland groundfish	IBF	Oct–Nov	Since 1982	Stratified random Campelen trawl	Cod, Redfish, other finfish	73	N	80	0–400	Y	Y	Y	N	Y	U	EU–Ger- many	01/15

Stock name: Other finfish Sub-area 1																		
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance	Stock size estimates	biomass	ALK	LF	Indi-vidual weight	Country	SCR Doc. No.
2006	Greenland Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random Campelen trawl	GRH Round-nose grenadier	61	Y	N/I	400–1500	Y	Y	N	Y	N	N	Green-land	07/29
2005	Greenland Deep Sea	ICD	Aug–Nov	Since 1997	Stratified random Campelen trawl	GRH Round-nose grenadier	61	Y	N/I	400–1500	Y	Y	N	Y	N	N	Green-land	06/27
2004	Greenland Deep Sea	IAD	Aug–Nov	1987–95, 1997–2001	Stratified random Campelen trawl	GRH Round-nose grenadier	51	N/Y	N/I	100–1500	Y	Y	N	Y	N	N	Green-land	05/13
2003	Greenland Deep Sea	ICD	Sep	Since 1997	Stratified random Campelen trawl	GRH Round-nose grenadier	35	N/Y	N/I	400–1500	Y	Y	N	Y	N	N	Green-land	04/19
2002	Greenland Deep Sea	ICD	Sep	Since 1997	Stratified random Campelen trawl	GRH Round-nose grenadier	35	N/Y	N/I	400–1500	Y	Y	N	Y	N	N	Green-land	03/20
2001	Greenland Deep Sea	IAD	Aug–Nov	1987–95, 1997–2001	Stratified random Campelen trawl	GRH Round-nose grenadier	121	N/Y	N/I	100–1500	Y	Y	N	Y	N	N	Green-land	02/30
2000	Greenland Deep Sea	IAD	Sep–Oct	1987–95, 1997	Stratified random Campelen trawl	GRH Round-nose grenadier	70	N	80	400–1500	Y	Y	N	Y	N	N	Green-land	01/23

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Stock name: Shrimp Denmark																			
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock Stock size estimates abundance biomass	ALK	LF	Individual weight	Country	SCR Doc. No.			
No surveys since 1996					Stratified random Campelen trawl		482								N		10/21		
2011	East Green-land Trawl Survey	ICES XIVb	August	Since 2008	Stratified random Campelen trawl	Northern shrimp	85	N	Not known	0–600	Y	Y	Y	Y	N	Y	Y	Green-land	09/12
2009	East Green-land Trawl Survey	ICES XIVb	August	Since 2008	Stratified random Campelen trawl	Northern shrimp	85	N	Not known	0–600	Y	Y	Y	Y	N	Y	Y	Green-land	08/32
2008	East Green-land Trawl Survey	ICES XIVb	Aug–Sep	Since 2008	Stratified random Campelen trawl	Northern shrimp	97	N	Not known	0–600	Y	Y	Y	Y	N	Y	Y	Green-land	07/18
2007	East Green-land Trawl Survey	ICES XIVb	Aug–Sep	Since 2008	Stratified random Campelen trawl	Northern shrimp	53	N	Not known	0–600	Y	Y	Y	Y	N	Y	Y	Green-land	06/34
		3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	Not known	44–675	Y	Y	Y	Y	N	Y	Y	Green-land	05/64
		3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	Not known	39–726	Y	Y	Y	Y	N	Y	Y	Green-land	04/48
					Stratified random Campelen trawl										N				

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Stock name: Cod in Division 2J+3KL																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates			Individual weight	Country	SCR Doc. No.	
											abun-	biomass	ALK	LF			
2002	Ground-fish	2J3K	Oct-Dec	1977-02	Stratified random Campelen trawl	Ground-fish	450	Y	100	100-1500	Y	Y	N	Y	Y	Canada	03/62
2001	Ground-fish	2J3K	Oct-Dec	1977-01	Stratified random Campelen trawl	Ground-fish	400	Y	100	100-1000	Y	Y	N	Y	Y	Canada	02/66
2000	Ground-fish	2J3K	Oct-Dec	1977-00	Stratified random Campelen trawl	Ground-fish	400	Y	100	100-1000	Y	Y	N	Y	Y	Canada	01/33
2002	Ground-fish	3L	Oct-Nov	1981-01	Stratified random bottom trawl (Yankee 41.5, Engels 145, Campelen 1800)	Ground-fish	450	Y	100	100-1500	Y	Y	Y	Y	Y	Canada	03/62
2001	Ground-fish	3L	Oct-Nov	1981-01	Stratified random bottom trawl	Ground-fish	160	Y	N/I	30-400	Y	Y	Y	Y	Y	Canada	02/66
2000	Ground-fish	3L	Oct-Nov	1981-01	Stratified random bottom trawl	Ground-fish	160	Y	N/I	30-400	Y	Y	Y	Y	Y	Canada	01/33
2002	Spring multi-species	3L	May-June	1971-02	Stratified random bottom trawl	Ground-fish	200	Y	Only div 3L	to 731	Y	Y	Y	Y	Y	Canada	03/10
2001	Ground-fish	3L	May-June	1971-01	Stratified random bottom trawl	Ground-fish	160	Y	N/I	30-800	Y	Y	Y	Y	Y	Canada	02/66
2000	Ground-fish	3L	May-June	1971-01	Stratified random bottom trawl	Ground-fish	160	Y	N/I	30-800	Y	Y	Y	Y	Y	Canada	01/33

Stock name: Greenland halibut in Subarea 2+3KJ,MNO																	
Year	Survey	Location	Month(s)	Year of Survey from/for since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance	bio-estimates	ALK	LF	Individual weight	Country	SCR Doc. No.
2009	Canada autumn ground-fish	2J, 3K, 3L	Sep-Dec	Since 1995	Stratified random Campellen trawl	Groundfish (Cod, flounder, GRH, Redfish & shellfish)	482	Y		2J3K in 2009 127-1494m, 3L (2009) 81-1424m	Y	Y	N	Y	Y	Canada	10/21
2008	Canada autumn ground-fish	2J, 3K, 3L	Sep-Dec	Since 1995	Stratified random Campellen trawl	Groundfish (Cod, flounder, GRH, Redfish & shellfish)		Y		2J3K in 2009 127-1494m, 3L (2009) 81-1424m	Y	Y	N	Y	Y	Canada	09/12
2007	Canada autumn ground-fish	2J, 3K, 3L	Sep-Dec	Since 1995	Stratified random Campellen trawl	Groundfish (Cod, flounder, GRH, Redfish & shellfish)	412	Y		2J3K in 2009 127-1494m, 3L (2009) 81-1424m	Y	Y	N	Y	Y	Canada	08/32
2006	Canada autumn ground-fish	2J, 3K, 3L	Sep-Dec	Since 1995	Stratified random Campellen trawl	Groundfish (Cod, flounder, GRH, Redfish & shellfish)	456	Y		2J3K in 2009 127-1494m, 3L (2009) 81-1424m	Y	Y	N	Y	Y	Canada	07/18
2005	Canada autumn ground-fish	2J, 3K, 3L	Sep-Dec	Since 1995	Stratified random Campellen trawl	Groundfish (Cod, flounder, GRH, Redfish & shellfish)	468	Y		2J3K in 2009 127-1494m, 3L (2009) 81-1424m	Y	Y	N	Y	Y	Canada	06/34
2004	Canada autumn ground-fish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campellen trawl	Multi-species	158	Y		44-675	Y	Y	N	Y	Y	Canada	05/64
2003	Canada autumn ground-fish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campellen trawl	Multi-species	158	Y		39-726	Y	Y	N	Y	Y	Canada	04/48

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Stock name: Greenland halibut in Subarea 2+3KLMNO																		
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Indi-vidual weight	Country	SCR Doc. No.		
											Stock size estimates							
											abun-	bio-	ALK		LF			
											dance	mass						
2002	Canada autumn ground-fish	2J, 3K, 3L	Sep-Dec	Since 1995	Stratified random Campel-en trawl	Groundfish (Cod, floun-der, GRH, Redfish & shellfish	498	Y		2J3K in 2009 127-1494m, 3L (2009) 81-1424m	Y	Y	N	Y	Y	Canada	03/51	
2001	Canada autumn ground-fish	2J, 3K, 3L	Sep-Dec	Since 1995	Stratified random Campel-en trawl	Groundfish (Cod, floun-der, GRH, Redfish & shellfish	490	Y		2J3K in 2009 127-1494m, 3L (2009) 81-1424m	Y	Y	N	Y	Y	Canada	02/24	
2000	Canada autumn ground-fish	2J, 3K, 3L	Sep-Dec	Since 1995	Stratified random Campel-en trawl	Groundfish (Cod, floun-der, GRH, Redfish & shellfish	452	Y		2J3K in 2009 127-1494m, 3L (2009) 81-1424m	Y	Y	N	Y	Y	Canada	02/24	
2009	EU bottom trawl	3M	Jul	1988-09	Stratified bottom trawl	Groundfish and shrimp	178 in 2009	N		128-1460	N	N	N	Y	Y	EU	10/21	
2008	EU bottom trawl	3M	Jul	1988-07	Stratified bottom trawl	Groundfish and shrimp	174 IN 2007	N		128-1460	N	N	Y	Y	Y	EU	08/32	
2006	EU bottom trawl	3M	Jul	1988-06	Stratified bottom trawl	Groundfish and shrimp	179 in 2006	N		128-1400	Y	Y	Y	Y	Y	EU	07/10	
2005	EU bottom trawl	3M	Jul	1988-05	Stratified bottom trawl	Groundfish and shrimp	176 IN 2005	N		1400	Y	Y	Y	Y	Y	EU	06/34	
2004																		
2003																		
2002	EU bottom trawl	3M	Jul	1988-02	Stratified bottom trawl	Groundfish and shrimp	120 in 2002	N		730	N	N	N	Y	Y	EU	03/42	
2001	EU bottom trawl	3M	Jul	1988-01	Stratified bottom trawl	Groundfish and shrimp	120 in 2001	N		731	N	N	Y	Y	Y	EU	02/12	

Stock name: Greenland halibut in Subarea 2+3KJLMNO																		
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Indi-vidual weight	Country	SCR Doc. No.		
											abun-	bio-	ALK	LF				
2000	EU bottom trawl	3M	Jul	1988-00	Stratified bottom trawl	Groundfish and shrimp	120 in 2000	N		731	N	N	Y	Y	Y	Y	EU	01/22
2009	EU-Spain bottom trawl	3LNO	Apr-May	3NO (1995-2009), 3L 2003, 04, 06, 07, 09	Stratified random bottom trawl	Groundfish	207	N		128-1460	Y	Y	Y	Y	Y	Y	Spain	11/21
2008	EU-Spain bottom trawl	3NO	May-Jun	Since 1995	Stratified random bottom trawl	Groundfish	122	N		45-1374	Y	Y	Y	Y	Y	Y	Spain	09/08
2007	EU-Spain bottom trawl	3LNO	Apr-May	3NO (1995-2007), 3L 2003, 04, 06, 07	Stratified random bottom trawl	Groundfish	204	N		56-1464	Y	Y	Y	Y	Y	Y	Spain	08/07, 08/20
2006	EU-Spain bottom trawl	3NO	Apr-May	1995-2006	Stratified random bottom trawl	Groundfish	120	N		56-1464	Y	Y	Y	Y	Y	Y	Spain	07/35
2005	EU-Spain bottom trawl	3NO	Apr-May	1995-2005	Stratified random bottom trawl	Groundfish and shrimp	119	N		56-1464	Y	Y	Y	Y	Y	Y	Spain	06/12
2004	EU-Spain bottom trawl	3NO	Apr-May	1995-2002	Stratified random bottom trawl	Groundfish and shrimp	120	N		56-1464	Y	Y	Y	Y	Y	Y	Spain	05/57
2003	EU-Spain bottom trawl	3NO	Apr-May	1995-2002	Stratified random bottom trawl	Groundfish and shrimp	118	N		56-1464	Y	Y	Y	Y	Y	Y	Spain	04/11
2002	EU-Spain bottom trawl	3NO	Apr-May	1995-2002	Stratified random bottom trawl	Groundfish and shrimp	125 IN 2002	N		56-1464	Y	Y	Y	Y	Y	Y	Spain	03/08
2001	EU-Spain bottom trawl	3NO	Apr-May	1995-2001	Stratified random bottom trawl	Groundfish and shrimp	130 in 2001	N		1430	Y	Y	Y	Y	Y	Y	Spain	02/04

Stock name: Witch flounder in Division 2J+3KL																						
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock size estimates	abundance bio-mass	ALK	LF	Individual weight	Country	SCR Doc. No.					
2009	Canada autumn ground fish	21,3KL	Autumn	1978-10, 213K 84-10 3L	Stratified random Campelen trawl	Multi-species (Cod, flounder, G. halibut, Redfish & shellfish)	482	Y	213K in 2009	Y	Y	N	Y	Y	Y	Canada	10/21					
																		109-	1442	3L in 2009	58-	1448
2008	Canada autumn ground fish	21,3KL	Autumn	1978-10, 213K 84-10 3L	Stratified random Campelen trawl	Multi-species (Cod, flounder, G. halibut, Redfish & shellfish)	333	Y	213K in 2008	Y	Y	N	Y	Y	Y	Canada	09/12					
																		125-	1439	3L in 2008	62-664	
2007	Canada autumn ground fish	21,3KL	Autumn	1978-10, 213K 84-10 3L	Stratified random Campelen trawl	Multi-species (Cod, flounder, G. halibut, Redfish & shellfish)	412	Y	213K in 2007	Y	Y	N	Y	Y	Y	Canada	08/32					
																		127-	1494	3L in 2007	1424	
2006	Canada autumn ground fish	213KL	Autumn	1978-10, 213K 84-10 3L	Stratified random Campelen trawl	Multi-species (Cod, flounder, G. halibut, Redfish & shellfish)	456	Y	213K in 2006	Y	Y	N	Y	Y	Y	Canada	07/18					
																		107-	1443	3L in 2006	61-	1401
2005	Canada autumn ground fish	21,3KL	Autumn	1978-10, 213K 84-10 3L	Stratified random Campelen trawl	Multi-species (Cod, flounder, G. halibut, Redfish & shellfish)	468	Y	213K in 2005	Y	Y	N	Y	Y	Y	Canada	06/34					
																		118-	1427	3L in 2005	50-	1351

Stock name: Cod in Division 3M																		
Year	survey	Location	Month(s)	Year of survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock mates	Stock size esti-	bio-	ALK	LF	Indi-vidual weight	Country	SCR Doc. No.
2009	EU-bot-tom trawl survey	3M	Jun-Jul	Since 1988	Stratified random Campelen trawl	All	482	N	100	<750 (88-03) <1400 (04-11)	Y	Y	Y	N	Y	Y	EU	10/21
2008	EU-bot-tom trawl survey	3M	Jun-Jul	Since 1988	Stratified random Campelen trawl	All	167	N	100	<750 (88-03) <1400 (04-11)	Y	Y	Y	N	Y	Y	EU	09/12
2007	EU-bot-tom trawl survey	3M	July	Since 1988	Stratified random Campelen trawl	All	174	N	100	<750 (88-03) <1400 (04-11)	Y	Y	Y	N	Y	Y	EU	08/32
2006	EU-bot-tom trawl survey	3M	Jun-Jul	Since 1988	Stratified random Campelen trawl	All	179	N	100	<750 (88-03) <1400 (04-11)	Y	Y	Y	N	Y	Y	EU	07/18
2005	EU-bot-tom trawl survey	3M	Jun-Jul	Since 1988	Stratified random Campelen trawl	All	177	N	100	<750 (88-03) <1400 (04-11)	Y	Y	Y	N	Y	Y	EU	06/34
2004	EU-bot-tom trawl survey	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	100	44-675	Y	Y	Y	N	Y	Y	EU	05/64
2003	EU-bot-tom trawl survey	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	100	39-726	Y	Y	Y	N	Y	Y	EU	04/48
2002	EU-bot-tom trawl survey	3M	Jun-Jul	Since 1988	Stratified random Campelen trawl	All	120	N	100	to 730	Y	Y	Y	N	Y	Y	EU	03/42
2001	EU-bot-tom trawl survey	3M	Jun-Jul	Since 1988	Stratified random Campelen trawl	All	120	N	100	to 730	Y	Y	Y	N	Y	Y	EU	02/12
2000	EU-bot-tom trawl survey	3M	Jul	1988	Stratified random Campelen trawl	cod	120	N	100	to 730	Y	Y	Y	N	Y	Y	EU	01/22

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Stock name: Cod in Division 3M																		
Year	survey	Location	Month(s)	Year of survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	bio-mass	ALK	LF	Individual weight	Country	SCR Doc. No.
2002	Russian trawl survey	3M	May–June	1983–1993 1995–1996 2001–2002	stratified random (& acoustic survey 1987–93)	All	94	Y	100	to 1280	Y	Y	Y	N	N	N	Russia	10/21
2001	Russian trawl survey	3M	May–June	1983–1993 1995–1996 2001–2002	stratified random (& acoustic survey 1987–93)	All	90	Y	100	<1280	Y	Y	Y	N	N	N	Russia	09/12

Stock name: American plaice in Division 3M																		
Year	Survey	Location	Month(s)	Year of Survey from/for or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	abundance biomass	ALK	LF	Individual weight	Country	SCR Doc. No.
2009	EU - bottom trawl	3M	July	1988	Stratified random Campelen trawl	Ground-fish and shrimp	482	N	100	127-1460	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	10/21
2008	EU - bottom trawl	3M	July	1988	Stratified random Campelen trawl	Ground-fish and shrimp	179	N	100	127-1400	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	09/12
2007	EU - bottom trawl	3M	July	1988	Stratified random Campelen trawl	Ground-fish and shrimp	174	N	100	127-1400	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	08/32
2006	EU - bottom trawl	3M	July	1988	Stratified random Campelen trawl	Ground-fish and shrimp	179	N	100	127-1400	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	07/18
2005	EU - bottom trawl	3M	July	1988	Stratified random Campelen trawl	Ground-fish and shrimp	176	N	100	127-1400	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	06/34
2004	EU - bottom trawl	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	100	44-675	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	05/64
2003	EU - bottom trawl	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	N	100	39-726	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	04/48
2002	EU - bottom trawl	3M	July	1988	Stratified random Campelen trawl	Ground-fish and shrimp	120	N	100	127-731	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	03/42
2001	EU - bottom trawl	3M	July	1988	Stratified random Campelen trawl	Ground-fish and shrimp	120	N	100	127-731	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	02/12
2000	EU - bottom trawl	3M	July	1988	Stratified random Campelen trawl	Ground-fish and shrimp	120	N	100	127-731	Y	Y	N	Y	Y	Y	EU-Spain EU-Portugal	01/22

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Stock name: American plaice in Division 3M															
Year	Survey	Location	Month(s)	Year of Survey from/for or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance biomass	Stock size estimates	Individual weight	Country	SCR Doc. No.
2009	No Survey since 2003														
2008															
2007															
2006															
2005															
2004															
2003															
2002	Russia trawl survey	3M	May/June	1987-96, 2001	Stratified-random bottom trawl	Ground-fish	94	Y	100	127-1280	Y	Y		Russia	03/09
2001	Russia trawl survey	3M	May/June	2001	Stratified-random bottom trawl	Ground-fish	90	Y	100	127-1280	Y	Y		Russia	WP 02/13
2000	Russia trawl survey	3M	May/June	1987-96, 2001	Stratified-random bottom trawl	Ground-fish	94	Y	100	127-1280	Y	Y		Russia	03/09

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Stock name: Northern Shrimp in Division 3M																	
Year	Survey	Location	Month(s)	Year of Survey from/ to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribu-tion (%)	Depth Range (m)	Research data related to stock size estimates	abun- biomass	ALK LF	Indi-vidual weight	Country	SCR Doc. No.	
2009	Faroese Shrimp trawl survey															09/12	
2008	Faroese Shrimp trawl survey															08/32	
2007	Faroese Shrimp trawl survey																
2006	Faroese Shrimp trawl survey															06/34	
2005	Faroese Shrimp trawl survey																
2004	Faroese Shrimp trawl survey	3M	May–July	Since 1988	Stratified-random bottom trawl	All	36	N	100	750–1400	Y	Y	Y	Y	Y	EU	04/69
2003	Faroese Shrimp trawl survey	3M	July	Since 1997	Stratified-random bottom trawl	All		N	100	750–1400	Y	Y	Y	Y	Y	EU	03/67
2002	Faroese Shrimp trawl survey	3M	Jun-July	Since 1997	Stratified-random bottom trawl	Shrimp	61	Y	100	200–600	Y	Y	Y	Y	Y	Faroe Island	03/66 03/87
2001	Faroese Shrimp trawl survey	3M	Jun-July	Since 1997	Stratified-random bottom trawl	Shrimp	61	Y	100	200–600	Y	Y	N	Y	Y	Faroe Island	01/187 01/188
2000	Faroese Shrimp trawl survey	3M	Jun-July	Since 1997	Stratified-random bottom trawl	Shrimp	61	Y	100	200–600	Y	Y	N	Y	Y	Faroe Island	01/187 01/188

Stock name: Cod in Division 3NO																	
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock estimates			Individual weight	Country	SCR Dec. No.	
											abun-	bio-	ALK	LF			
2009	Canadian groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	482	Y	100	42-732	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	164	Y	100	45-719	Y	Y	N	Y	Y	Canada	09/12
2007	Canadian groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	164	Y	100	45-719	Y	Y	N	Y	Y	Canada	08/32
2006	Canadian groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	157	Y	100	45-719	Y	Y	N	Y	Y	Canada	07/18
2005	Canadian groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	157	Y	100	45-719	Y	Y	N	Y	Y	Canada	06/34
2004	Canadian groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	44-675	Y	Y	N	Y	Y	Canada	05/64
2003	Canadian groundfish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	39-726	Y	Y	N	Y	Y	Canada	04/48
2002	Canadian groundfish	3NO	Apr-May	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	120	Y	100	30-400	Y	Y	N	Y	Y	Canada	03/10
2001	Canadian groundfish	3NO	Apr-May	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	160	Y	100	30-400	Y	Y	N	Y	Y	Canada	02/57

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Stock name: Cod in Division 3NO																	
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock estimates			Individual weight	Country	SCR Dec. No.	
											abun-	bio-	ALK	LF			
2000	Canadian groundfish	3NO	Apr–May	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	160	Y	100	30–400	Y	Y	N	Y	Y	Canada	01/72
2009	Canadian groundfish	3NO	Oct–Dec	Since 1990	Stratified random bottom trawl	Multi-species	125–193	Y	100	42–1445	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian groundfish	3NO	Oct–Dec	Since 1990	Stratified random bottom trawl	Multi-species	198	Y	100	42–1445	Y	Y	Y	Y	Y	Canada	09/12
2007	Canadian groundfish	3NO	Oct–Dec	Since 1990	Stratified random bottom trawl	Multi-species	198	Y	100	42–1445	Y	Y	Y	Y	Y	Canada	08/32
2006	Canadian groundfish	3NO	Oct	Since 1990	Stratified random bottom trawl	Multi-species	144	Y	100	42–1445	Y	Y	Y	Y	Y	Canada	07/40
2005	Canadian groundfish	3NO	Oct–Jan	Since 1990	Stratified random bottom trawl	Multi-species	185	Y	100	42–1445	Y	Y	Y	Y	Y	Canada	06/34
2004	Canadian groundfish	3NO	Oct–Jan	Since 1990	Stratified random bottom trawl	Multi-species		Y	100	42–1445	Y	Y	Y	Y	Y	Canada	05/67
2003	Canadian groundfish	3NO	Oct–Jan	Since 1990	Stratified random bottom trawl	Multi-species		Y	100	42–1445	Y	Y	Y	Y	Y	Canada	03/59
2002	Canadian groundfish	3NO	Oct–Nov	Since 1990	Stratified random & Lofoten	Multi-species	160	Y	100	30–800	Y	Y	Y	Y	Y	Canada	03/10
2001	Canadian groundfish	3NO	Oct–Nov	Since 1990	Stratified random bottom trawl	Multi-species	160	Y	100	30–800	Y	Y	Y	Y	Y	Canada	02/57

Stock name: Cod in Division 3NO																	
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to			Individual weight	Country	SCR Dec. No.	
											Stock size estimates	abun-	bio-	ALK	LF		
2000	Canadian groundfish	3NO	Oct-Nov	Since 1990	Stratified random bottom trawl	Multi-species	160	Y	100	30-800	Y	Y	Y	Y	Y	Canada	01/72
2009	EU-Spain	3NO	June	1995-10	Stratified random bottom trawl	Multi-species	95-128	N	20	36-1666	Y	Y	N	Y	N	Spain	10/06
2008	EU-Spain	3NO	June	1995-08	Stratified random bottom trawl	Multi-species	110	N	20	45-1480	Y	Y	N	Y	N	Spain	09/09
2007	EU-Spain	3NO	June	1995-07	Stratified random bottom trawl	Multi-species	110	N	20	45-1480	Y	Y	N	Y	N	Spain	08/08
2006	EU-Spain	3NO	June	1995-06	Stratified random bottom trawl	Groundfish	120	N	20	45-1480	Y	Y	N	Y	N	Spain	07/36
2005	EU-Spain	3NO	June	1995-05	Stratified random bottom trawl	Groundfish	119	N	20	56-1464	Y	Y	N	Y	N	Spain	06/14
2004	EU-Spain	3NO	June	1995-05	Stratified random bottom trawl	Groundfish	120	N	20	56-1464	Y	Y	N	Y	N	Spain	05/26
2003	EU-Spain	3NO	June	1995-05	Stratified random bottom trawl	Groundfish	119	N	20	56-1464	Y	Y	N	Y	N	Spain	04/12
2002	EU-Spain	3NO	May	1995-02		Groundfish	137	N	20	100	Y	Y	N	Y	N	Spain	03/11
2001	EU-Spain	3NO	May	1995-01	Stratified random bottom trawl	Groundfish	137	N	20	100	Y	Y	N	Y	N	Spain	SCS 02/07
2000	EU-Spain	3NO	May	1995-99	Stratified random bottom trawl	Groundfish	137	N	20	100	Y	Y	N	Y	N	Spain	01/18

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Stock name: Redfish Division 3LN																		
Year	survey	Loca- tion	Month(s)	Year of survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish- ing	Area of coverage in relation to stock distribu- tion (%)	Depth Range (m)	Research data related to stock			Individu- al weight	Country	SCR Doc. No.		
											Stock size esti- mates		abun- biomass		ALK	LF		
2009	Canada Ground- fish	3LN	Oct-Dec	Since 1991	Stratified random Campelen trawl	Multi- species Ground- fish	482	Y		58-1448 (3L) 40-1219 (3N)	Y	Y	N	Y	Y	Canada	10/21	
2008	Canada Ground- fish	3LN	Oct-Dec	Since 1991	Stratified random Campelen trawl	Multi- species Ground- fish	126 (3L) 64 (3N)	Y		62-664 (3L) 38-643 (3N)	Y	Y	N	Y	Y	Canada	09/12	
2007	Canada Ground- fish	3LN	Oct-Dec	Since 1991	Stratified random Campelen trawl	Multi- species Ground- fish	168 (3L) 94 (3N)	Y		61- 1401(3L) 46- 650(3N)	Y	Y	N	Y	Y	Canada	08/32	
2006	Canada Ground- fish	3L	Oct-Dec	Since 1991	Stratified random Campelen trawl	Multi- species Ground- fish	185 (3L) 70 (3N)	Y		61- 1401(3L) 46- 650(3N)	Y	Y	N	Y	Y	Canada	07/18	
2005	Canada Ground- fish	3LN	Oct-Dec	Since 1991	Stratified random Campelen trawl	Multi- species Ground- fish	270	Y		40-1442	Y	Y	N	Y	Y	Canada	06/34	
2004	Canada Ground- fish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi- species	158	Y		44-675	Y	Y	N	Y	Y	Canada	05/64	
2003	Canada Ground- fish	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi- species	158	Y		39-726	Y	Y	N	Y	Y	Canada	04/48	
2002	Canada Ground- fish	3L	Oct-Dec, Apr-May	Since 1991	Stratified random Campelen trawl	Multi- species Ground- fish	44-53N (184- 914m)	Y		732	Y	Y	N	Y	n	Canada	NAFO studies #2	
2001	Canada Ground- fish	3L	Oct-Dec, Apr-May	Since 1991	Stratified random Campelen trawl	Multi- species Ground- fish	44-53N (184- 914m)	Y		732	Y	Y	N	Y	n	Canada	NAFO studies #2	
2000	Canada Ground- fish	3L	Oct-Dec, Apr-May	Since 1991	Stratified random Campelen trawl	Multi- species Ground- fish	44-53N (184- 914m)	Y		732	Y	Y	N	Y	n	Canada	NAFO studies #2	

Stock name: Redfish Division 3LN																	
Year	survey	Location	Month(s)	Year of survey from/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Individual weight	Country	SCR Doc. No.	
											Stock size esti-mates	abun-biomass	ALK	LF			
2009	Canada Ground-fish	3LN	May-Jun	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	130 (3L) 78 (3N)	Y	58-715 (3L) 39-714 (2N)	60-84 (3L) 40-623 (2N)	Y	Y	N	Y	Y	Canada	10/21
2008	Canada Ground-fish	3LN	May-Jun	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	122 (3L) 71 (3N)	Y	60-701 (3L) 46-77 (2N)	60-701 (3L) 46-77 (2N)	Y	Y	n	Y	Y	Canada	09/12
2007	Canada Ground-fish	3LN	May-Jun	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	137 (3L) 79 (3N)	Y	60-701 (3L) 46-77 (2N)	60-701 (3L) 46-77 (2N)	Y	Y	n	Y	Y	Canada	08/32
2006	Canada Ground-fish	3LN	May-Jun	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	141 (3L) 22 (3N)	Y	60-701 (3L) 4-77 (2N)	60-701 (3L) 4-77 (2N)	Y	Y	n	Y	Y	Canada	07/18 & pers. Com.
2005	Canada Ground-fish	3LN	May-Jun	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	211	Y	<730	<730	Y	Y	n	Y	Y	Canada	06/34
2004	Canada Ground-fish	3LN	Oct-Dec, May-Jun	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	44-53 in 18-4 914m	Y	183-732	183-732	Y	Y	Y	Y	N	Canada	05/52
2003	Canada Ground-fish	3LN	May-Jun	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	235	Y	60-701 (3L) 46-77 (2N)	60-701 (3L) 46-77 (2N)	Y	Y	n	Y	Y	Canada	09/12
2002	Canada Ground-fish	3N	Oct-Dec, Apr-May	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	30-36 in 93- 914m	Y	732	732	Y	Y	Y	Y	Y	Canada	NAFO studies #2
2001	Canada Ground-fish	3N	Oct-Dec, Apr-May	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	30-36 in 93- 914m	Y	732	732	Y	Y	Y	Y	Y	Canada	NAFO studies #2
2000	Canada Ground-fish	3N	Oct-Dec, Apr-May	Since 1991	Stratified-random bottom trawl	Multi-species Ground-fish	30-36 in 93- 914m	Y	732	732	Y	Y	Y	Y	Y	Canada	NAFO studies #2

Stock Name: American plaice in Division 3LNO																		
Year	survey	Location	Month(s)	Year of survey from/6/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock size estimates	abun- dance	biomass	ALK	LF	Individual weight	Country	SCR Doc. No.
2009	Canadian Spring	3LNO	Apr–June	Since 1971	Stratified random Campelen trawl	Multi-species	482	Y	95	39–715	Y	Y	N	Y	Y	Y	Canada	10/21
2008	Canadian Spring	3LNO	Apr–June	Since 1971	Stratified random Campelen trawl	Multi-species	273*	Y	95	<704	Y	Y	N	Y	Y	Y	Canada	09/12
2007	Canadian Spring	3LNO	Apr–June	Since 1971	Stratified random Campelen trawl	Multi-species	295*	Y	95	<719	Y	Y	N	Y	Y	Y	Canada	08/32
2006	Canadian Spring	3LNO	Apr–June	Since 1971	Stratified random Campelen trawl	Multi-species	198*	Y	95	<701	Y	Y	N	Y	Y	Y	Canada	07/18
2005	Canadian Spring	3LNO	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish	290	Y	95	<691	Y	Y	N	Y	Y	Y	Canada	06/34
2004	Canadian Spring	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	95	44–675	Y	Y	N	Y	Y	Y	Canada	05/64
2003	Canadian Spring	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	95	39–726	Y	Y	N	Y	Y	Y	Canada	04/48
2002	Canadian Spring	3LNO	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish	304	Y	95	730	Y	Y	N	Y	Y	Y	Canada	03/56
2001	Canadian Spring	3LNO	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish	310	Y	95	<730	Y	Y	N	Y	Y	Y	Canada	02/70
2000	Canadian Spring	3LNO	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish	310	Y	95	<730	Y	Y	N	Y	Y	Y	Canada	01/59

Stock Name: American plaice in Division 3LN0																	
Year	survey	Location	Month(s)	Year of survey from/for or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Individual weight	Country	SCR Doc. No.			
											Stock size estimates						
											abun-	biomass	ALK	LF			
											dance						
2009	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Multi-species	343	Y	100	58-1448	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Multi-species	126 (3L) 64 (3N) 66 (3O)	Y	100	<664	Y	Y	Y	Y	Y	Canada	09/12
2007	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Multi-species	168 (3L) 94 (3N) 99 (3O)	Y	100	<1424	Y	Y	Y	Y	Y	Canada	08/32
2006	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Multi-species	329*	Y	100	<1455	Y	Y	Y	Y	Y	Canada	07/56
2005	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Multi-species	369	Y	100	<1445	Y	Y	Y	Y	Y	Canada	06/34
2004	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Multi-species	345	Y	100	<1460	Y	Y	Y	Y	Y	Canada	SCR 05/61
2003	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Multi-species	358	Y	100	<1460	Y	Y	Y	Y	Y	Canada	09/12
2002	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Ground-fish shellfish	399	Y	100	<1460	Y	Y	Y	Y	Y	Canada	03/56
2001	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Ground-fish shellfish	310	Y	100	<1460	Y	Y	Y	Y	Y	Canada	02/70
2000	Canadian autumn	3LN0	Sep-Dec	since 1990	Stratified random Campelen	Ground-fish shellfish	310	Y	100	<1460	Y	Y	Y	Y	Y	Canada	01/59
2009	EU-Spain	3NO	Apr-June	Since 1995	Stratified random Campelen	Ground-fish	109	N	11	45-1374	Y	Y	N	Y	N	Spain	10/08

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Stock Name: American plaice in Division 3L:NO																	
Year	survey	Location	Month(s)	Year of survey from/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Individual weight	Country	SCR Doc. No.	
											Stock size estimates		ALK		LF		
											abun-	biomass					
2008	EU-Spain	3NO	Apr–June	Since 1995	Stratified random Campelen	Ground-fish	122	N	11	<1374	Y	Y	N	Y	N	Spain	09/8
2007	EU-Spain	3NO	Apr–June	Since 1995	Stratified random Campelen	Ground-fish	110	N	11	<1374	Y	Y	N	Y	N	Spain	08/7
2006	EU-Spain	3NO	Apr–June	Since 1995	Stratified random Campelen	Ground-fish	120	N	11	<1460	Y	Y	N	Y	N	Spain	SCR (07/35) SCS (07/8)
2005	EU-Spain	3NO	Apr–June	Since 1995	Stratified random Campelen	Ground-fish	119	N	12	<1464	Y	Y	N	Y	N	Spain	SCR 06/14
2004	EU-Spain	3NO	Apr–May	Since 1995	Stratified random Campelen	Ground-fish	120	N	12	<1460	Y	Y	N	Y	N	Spain	05/26
2003	EU-Spain	3NO	Apr–May	Since 1995	Stratified random Campelen	Ground-fish	118	N	12	<1460	Y	Y	N	Y	N	Spain	10/08
2002	EU-Spain	3NO	Apr–May	Since 1995	Stratified random Campelen	Ground-fish	125	N	11	<1460	Y	Y	N	Y	N	Spain	03/7
2001	EU-Spain	3NO	Apr–May	Since 1995	Stratified random Campelen	Ground-fish	124	N	11	<1460	Y	Y	N	Y	N	Spain	02/2
2000	EU-Spain	3NO	Apr–June	Since 1995	Stratified random Campelen	Ground-fish	124	N	10	<1460	Y	Y	N	Y	N	Spain	01/58
2009	EU-Spain	3L	Jul–Aug	2003–2010 (No 2005)	Stratified random Campelen	Ground-fish	98	N		119–1462	Y	Y	N	Y	N	Spain	10/13
2008	EU-Spain	3L	Jul–Aug	2003–2010 (No 2005)	Stratified random Campelen	Ground-fish	100	N		<1455	Y	Y	N	Y	N	Spain	09/23
2007	EU-Spain	3L	Jul–Aug	2003–2010 (No 2005)	Stratified random Campelen	Ground-fish	94	N		<1455	Y	Y	N	Y	N	Spain	10/13
2006	EU-Spain	3L	Jul–Aug	2003–2010 (No 2005)	Stratified random Campelen	Ground-fish	100	N		<1455	Y	Y	N	Y	N	Spain	10/13

Stock Name: American plaice in Division 3LNO																		
Year	survey	Location	Month(s)	Year of survey from/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Individual weight	Country	SCR Doc. No.		
											Stock size estimates		biomass		ALK		LF	
											abun-	biomass	ALK	LF				
											dance							
2005	No survey this Year																	
2004	EU-Spain	3L	Jul-Aug	2003-2010 (No 2005)	Stratified random Campelen	Ground-fish	50	N		<1455	Y	Y	N	Y	N	Spain	10/13	
2003	EU-Spain	3L	Jul-Aug	2003-2010 (No 2005)	Stratified random Campelen	Ground-fish	39	N		<1455	Y	Y	N	Y	N	Spain	10/13	
2004	Canadian DFO-In-dustry Co-operative	3NO, ex-panded <3L in 2000	Jul-Aug, quarterly in 1997-98	1996-2004	grid survey with commercial Engel trawl (unlined)	Yellow-tail (by-paths of cod, A. place)	61 (July) 80 (Aug)	Y	22	45-90	N	N	N	N	N	Canada	05/9 04/13	
2003	Canadian DFO-In-dustry Co-operative	3NO, ex-panded <3L in 2000	July quarterly in 1997-98	1996-2004	grid survey with commercial Engel trawl (unlined)	Yellow-tail (by-paths of cod, A. place)	50-80 survey (285 <tal in 1997)	Y	35	45-90	N	N	N	N	N	Canada	03/18	
2002	Canadian DFO-In-dustry Co-operative	3NO, ex-panded <3L in 2000	Jul-Aug, quarterly in 1997-98	1996-2004	grid survey with commercial Engel trawl (unlined)	Yellow-tail (by-paths of cod, A. place)	50-80 survey (285 <tal in 1997)	Y	35	45-90	N	N	N	N	N	Canada	02/44	
2001	Canadian DFO-In-dustry Co-operative	3NO, ex-panded <3L in 2000	Jul-Aug, quarterly in 1997-98	1996-2004	grid survey with commercial Engel trawl (unlined)	Yellow-tail (by-paths of cod, A. place)	50-80 survey (285 <tal in 1997)	Y	35	45-90	N	N	N	N	N	Canada	01/70	
* of 3LNO only																		

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Stock name: Yellowtail flounder in Division 3LN0																	
Year	Survey	Location	Month(s)	Year of Survey from/ to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Individual weight	Country	SCR Doc. No.	
											abundance	bio-mass	ALK	LF			
2009	Canadian ground-fish spring	3LN0	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish and shellfish	482	Y	100	39–715	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian ground-fish spring	3LN0	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish and shellfish	273	Y	100	60–704	Y	Y	N	Y	Y	Canada	09/12
2007	Canadian ground-fish spring	3LN0	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish and shellfish	295	Y	100	44–719	Y	Y	N	Y	Y	Canada	08/32
2006	Canadian ground-fish spring	3LN0	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish and shellfish	195	Y	95	to 731	Y	Y	N	Y	Y	Canada	07/18
2005	Canadian ground-fish spring	3LN0	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish and shellfish	290	Y	100	50–731	Y	Y	N	Y	Y	Canada	06/34
2004	Canadian ground-fish spring	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	44–675	Y	Y	N	Y	Y	Canada	05/64
2003	Canadian ground-fish spring	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	39–726	Y	Y	N	Y	Y	Canada	04/48
2002	Canadian ground-fish spring	3LN0	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish and shellfish	304	Y	100	50–730	Y	Y	N	Y	Y	Canada	03/52
2001	Canadian ground-fish spring	3LN0	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish and shellfish	311	Y	100	51–730	Y	Y	N	Y	Y	Canada	02/43
2000	Canadian ground-fish spring	3LN0	Apr–June	Since 1971	Stratified random Campelen trawl	Ground-fish	243	Y	100	51–941	Y	Y	N	Y	Y	Canada	01/50

Stock name: Yellowtail flounder in Division 3LNO																			
Year	Survey	Location	Month(s)	Year of Survey from/ to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	abundance	bio-mass	ALK	LF	Individual weight	Country	SCR Doc. No.
2009	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	343	Y	100	58-1448	Y	Y	Y	N	Y	Y	Y	Canada	10/21
2008	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	256	Y	100	38-664	Y	Y	Y	N	Y	Y	Y	Canada	09/12
2007	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	361	Y	100	48-1424	Y	Y	Y	N	Y	Y	Y	Canada	08/32
2006	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	329	Y	100	to 659	Y	Y	Y	N	Y	Y	Y	Canada	07/51
2005	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	369	Y	100	35-1462	Y	Y	Y	N	Y	Y	Y	Canada	06/34
2004	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	392	Y	100	35-1462	Y	Y	Y	Y	Y	Y	Y	Canada	05/55
2003	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	350	Y	100	35-1462	Y	Y	Y	Y	Y	Y	Y	Canada	04/36
2002	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	399	Y	100	53-1500	Y	Y	Y	Y	Y	Y	Y	Canada	03/52
2001	Canadian ground-fish autumn	3LNO	Oct-Nov	Since 1990	Stratified random bottom trawl	Ground-fish and shellfish	394	Y	100	51-1437	Y	Y	Y	Y	Y	Y	Y	Canada	02/43
2000	Canadian ground-fish autumn	3LNO	Oct-Dec	Since 1990	Stratified random bottom trawl	Ground-fish	315	Y	100	51-1437	Y	Y	Y	Y	Y	Y	Y	Canada	01/50
2009	Spanish Ground-fish	3NO	Apr-May	Since 1995	Stratified random bottom trawl	Ground-fish and shellfish	95	N		45-1374	Y	Y	Y	N	Y	N	N	Spain	11/06

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Stock name: Yellowtail flounder in Division 3LNO																	
Year	Survey	Location	Month(s)	Year of Survey from/ to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Individual weight	Country	SCR Doc. No.	
											abundance	bio-mass	ALK	LF			
2008	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish and shellfish	122	N		38–1460	Y	Y	N	Y	N	Spain	09/09
2007	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish and shellfish	110	N		45–1374	Y	Y	N	N	N	Spain	08/08
2006	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish and shellfish	120	N	~11	to 1460	Y	Y	N	Y	N	Spain	07/36
2005	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish and shellfish	119	N		56–1464	Y	Y	N	N	N	Spain	06/13
2004	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish and shellfish	120	N		56–1464	Y	Y	N	N	N	Spain	05/25
2003	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish and shellfish	118	N		56–1464	Y	Y	N	N	N	Spain	04/10
2002	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish and shellfish	125	N		56–1464	Y	Y	N	N	N	Spain	03/06
2001	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish	130	N		45–1280	Y	Y	N	N	N	Spain	02/03
2000	Spanish Ground-fish	3NO	Apr–May	Since 1995	Stratified random bottom trawl	Ground-fish	124	N		45–1280	Y	Y	N	N	N	Spain	00/46
2009																	
2008																	
2007																	
2006																	
2005																	
2004	Canadian DFO/ Industry	3NO	Seasonal during 1997–98. Surveys in July of all years 1996–2003	1996–2003	Grid, fixed stations. Commercial unlined trawl. Grid expanded from 2000 on	Yellowtail. Bycatch info on plaice, cod, & skate.	141	Y	65–85	45–90	N	N	N	Y	N	Canada	05/09 (CPUe only)

Stock name: Yellowtail flounder in Division 3LNO																		
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance	Stock size estimates	bio-mass	ALK	LF	Individual weight	Country	SCR Doc. No.
2003	Canadian DFO/ Industry	3NO	Seasonal during 1997-98. Surveys in July of all years 1996-2003	1996-2003	Grid, fixed stations. Commercial unlined trawl. Grid expanded from 2000 on	Yellowtail. Bycatch info on plaice, cod, & skate.	167	Y	80	45-90	N	N (CPU only)	N	N	Y	N	Canada	04/13
2002	Canadian DFO/ Industry	3NO	Seasonal during 1997-98. Surveys in July of all years 1996-2003	1996-2003	Grid, fixed stations. Commercial unlined trawl. Grid expanded from 2000 on	Yellowtail. Bycatch info on plaice, cod, & skate.	152	Y	80	45-90	N	N (CPU only)	N	N	Y	N	Canada	02/44
2001	Canadian DFO/ Industry	3NO	Seasonal during 1997-98. Surveys in July of all years 1996-2003	1996-2003	Grid, fixed stations. Commercial unlined trawl. Grid expanded from 2000 on	Yellowtail	285	Y	80	45-90	N	N	N	N	Y	N	Canada	01/70

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Stock name: Northern Shrimp in Division 3LNO																				
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock			Individual weight	Country	SCR Doc. No.				
											Stock size estimates		abundance		biomass		ALK		LF	
2009	Multi-species spring survey	3LNO 3Ps	May–Jun	1999-present	Stratified random Campelen trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	482	Y	100	30–732	Y	Y	N	Y	N	N	Canada	10/21		
2008	Multi-species spring survey	3LNO 3Ps	May–Jun	1999-present	Stratified random Campelen trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~350	Y	100	30–732	Y	Y	N	Y	N	N	Canada	09/12		
2007	Multi-species spring survey	3LNO 3Ps	May–Jun	1999-present	Stratified random Campelen trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~350	Y	100	30–732	Y	Y	N	Y	N	N	Canada	08/32		
2006	Multi-species spring survey	3LNO 3Ps	May–Jun	1999-present	Stratified random Campelen trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~350	Y	100	30–732	Y	Y	N	Y	N	N	Canada	07/18		
2005	Multi-species spring survey	3LNO 3Ps	May–Jun	Since 1995	Stratified random Campelen trawl	Ground-fish, shellfish, (crab & shrimp), Capelin		Y	101	731	Y	Y	N	Y	N	N	Canada	06/34		
2004	Multi-species spring survey	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	101	44–675	Y	Y	N	Y	N	N	Canada	05/64		
2003	Multi-species spring survey	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	101	39–726	Y	Y	N	Y	N	N	Canada	04/48		
2002	Multi-species spring survey	3LNO 3Ps	May–Jun	1999-present	Stratified random Campelen trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~350	Y	100	30–732	Y	Y	N	Y	N	N	Canada	03/82		

Stock name: Northern Shrimp in Division 3LNO																		
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance	Stock size estimates	biomass	ALK	LF	Individual weight	Country	SCR Doc. No.
2001	Multi-species spring survey	3LNO 3Ps	May-Jun	1999-present	Stratified random Capapelen trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~350	Y	100	30-732	Y	Y	Y	N	Y	N	Canada	02/160
2000	Multi-species spring survey	3LNO 3Ps	May-Jun	1999-present	Stratified random Capapelen trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	312	Y	100	30-732	Y	Y	Y	N	Y	N	Canada	01/186
2009	Multi-species autumn survey	21, 3KLNO	Oct-Dec	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	30-1500	Y	Y	Y	N	Y	N	Canada	10/21
2008	Multi-species autumn survey	21, 3KLNO	Oct-Dec	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	30-1500	Y	Y	Y	N	Y	N	Canada	09/12
2007	Multi-species autumn survey	21, 3KLNO	Oct-Dec	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	30-1500	Y	Y	Y	N	Y	N	Canada	08/32
2006	Multi-species autumn survey	21, 3KLNO	Oct-Dec	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	30-1500	Y	Y	Y	N	Y	N	Canada	06/73
2005	Multi-species autumn survey	21, 3KLNO	Oct-Dec	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	30-1500	Y	Y	Y	N	Y	N	Canada	06/34
2004	Multi-species autumn survey	3LNO	Fall	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	1462	Y	Y	Y	N	Y	N	Canada	05/68

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Stock name: Northern Shrimp in Division 3LNO																			
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	abundance	biomass	ALK	LF	Individual weight	Country	SCR Doc. No.
2003	Multi-species autumn survey	3LNO	Fall	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	1462	Y	Y	N	Y	N	N	N	Canada	04/65
2002	Multi-species autumn survey	21, 3KLNO	Oct-Dec	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	30-1500	Y	Y	N	Y	N	N	N	Canada	03/82
2001	Multi-species autumn survey	21, 3KLNO	Oct-Dec	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	~370 in 3LNO	Y	100	30-1500	Y	Y	N	Y	N	N	N	Canada	02/60
2000	Multi-species autumn survey	21, 3KLNO	Oct-Dec	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	370 in 3LNO	Y	100	30-1500	Y	Y	N	Y	N	N	N	Canada	01/86
2009	EU Bottom Trawl Survey	3NO	May-Jun	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	95	N		60-1500	Y	Y	Y					Spain	11/61
2008	EU Bottom Trawl Survey	3NO	May-Jun	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	122	N		40-1450	Y	Y	Y					Spain	08/66
2007	EU Bottom Trawl Survey	3NO	May-Jun	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	110	N		40-1400	Y	Y	Y					Spain	07/79
2006	EU Bottom Trawl Survey	3NO	June	Since 1995	Stratified-random bottom trawl	Ground-fish, shellfish, (crab & shrimp), Capelin	120	N		40-1400	Y	Y	Y					Spain	06/69

Stock name: Witch flounder in Division 3LN0																		
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance	Stock size estimates	bio- mass	ALK	LF	Indi-vidual weight	Country	SCR Doc. No.
2009	Canadian mul-tispecies (spring)	3NO	Apr-June	1971-2010	Stratified random Campelen trawl	Multispecies	482	Y	80-90	39-714	Y	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian mul-tispecies (spring)	3LN0	Apr-June	1971-2010	Stratified random Campelen trawl	Multispecies	273	Y	90	44-704	Y	Y	Y	N	Y	Y	Canada	09/12
2007	Canadian mul-tispecies (spring)	3LN0	Apr-June	1971-2010	Stratified random Campelen trawl	Multispecies	295	Y	90	44-719	Y	Y	Y	N	Y	Y	Canada	08/32
2006	Canadian mul-tispecies (spring)	3LN0	Apr-June	1971-2010	Stratified random Campelen trawl	Multispecies	290	Y	100	45-719	Y	Y	Y	N	Y	Y	Canada	07/18
2005	Canadian mul-tispecies (spring)	3LN0	Apr-June	1971-2010	Stratified random Campelen trawl	Multispecies	290	Y	100	45-719	Y	Y	Y	N	Y	Y	Canada	06/34
2004	Canadian mul-tispecies (spring)	3NO	Apr-June	Since 1972 (not 1983)	Stratified random Campelen trawl	Multispecies	158	Y	100	44-675	Y	Y	Y	N	Y	Y	Canada	05/64
2003	Canadian mul-tispecies (spring)	3NO	Apr-June	Since 1972 (not 1983)	Stratified random Campelen trawl	Multispecies	158	Y	100	39-726	Y	Y	Y	N	Y	Y	Canada	04/48
2002	Canadian mul-tispecies (spring)	3LN0	Apr-June	1971-2010	Stratified random Campelen trawl	Groundfish	~300	Y	100	51-731	Y	Y	Y	N	Y	Y	Canada	03/46
2001	Canadian mul-tispecies (spring)	3LN0	Apr-June	1971-2010	Stratified random Campelen trawl	Groundfish	~300	Y	100	51-731	Y	Y	Y	N	Y	Y	Canada	02/53

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Stock name: Witch flounder in Division 3LN0																	
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates	bio-ALK	LF	Individual weight	Country	SCR Doc. No.	
2000	Canadian multispecies (spring)	3LN0	Apr–June	1971–2010	Stratified random Campelen trawl	Groundfish	~300	Y	100	51–731	Y	Y	N	Y	Y	Canada	01/63
2009	Canadian multispecies (autumn)	3NO	Oct–Dec	1990–2010	Stratified random bottom trawl	Multispecies	335	Y	80-90	40–667	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian multispecies (autumn)	3LN0	Oct–Dec	1990–2010	Stratified random bottom trawl	Multispecies	64-3N 66-3O	Y	100	48–664	Y	Y	Previ-ous to 1994	Y	Y	Canada	09/12
2007	Canadian multispecies (autumn)	3LN0	Oct–Dec	1990–2010	Stratified random bottom trawl	Multispecies	168-3L 94-3N 99-3O	Y	100	48–1434	Y	Y	Previ-ous to 1994	Y	Y	Canada	08/32
2006	Canadian multispecies (autumn)	3LN0	Oct–Dec	1990–2010	Stratified random bottom trawl	Multispecies	154-3L 70-3N 74-3O	Y	100	46–1401	Y	Y	Previ-ous to 1994	Y	Y	Canada	09/12
2005	Canadian multispecies (autumn)	3LN0	Oct–Dec	1990–2010	Stratified random bottom trawl	Multispecies	184-3L 86-3N 99-3O	Y	100	50–1445	Y	Y	Previ-ous to 1994	Y	Y	Canada	06/34
2004	Canadian multispecies (autumn)	3LN0	Oct–Dec	1990–2010	Stratified random bottom trawl	Multispecies	147-3L 69-3N 76-3O	Y	100	32–1446	Y	Y	Previ-ous to 1994	Y	Y	Canada	05/08

Stock name: Witch flounder in Division 3LN0																		
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance	Stock size estimates	bio-mass	ALK	LF	Individual weight	Country	SCR Doc. No.
2003	Canadian multispecies (autumn)	3LN0	Oct-Dec	Since 1990	Stratified random bottom trawl	Multispecies	358	Y	100	35-1446	Y	Y	Y	Previous to 1994	Y	Y	Canada	09/12
2002	Canadian multispecies (autumn)	3LN0	Oct-Dec	1990-2010	Stratified random bottom trawl	Groundfish	205-3L 94-3N 97-3O	Y	100	51-1424	Y	Y	Y	Previous to 1994	Y	Y	Canada	03/46
2001	Canadian multispecies (autumn)	3LN0	Oct-Dec	1990-2010	Stratified random bottom trawl	Groundfish	205-3L 94-3N 97-3O	Y	100	40-667	Y	Y	Y	Y	Y	Y	Canada	02/53
2000	Canadian multispecies (autumn)	3LN0	Oct-Dec	1990-2010	Stratified random bottom trawl	Multispecies	176-3L 94-3N 100-3O	Y	100	51-1424	Y	Y	Y	Y	Y	Y	Canada	01/63
2009	Spanish Groundfish (Spring)	3NO	Apr-May	1995-2010	Stratified random bottom trawl	Groundfish	109	N		45-1374	Y	Y	N	N	Y	N	EU-Spain	10/08
2008	Spanish Groundfish (Spring)	3NO	Apr-May	1995-2010	Stratified random bottom trawl	Groundfish	122	N		45-1374	Y	Y	N	N	N	N	Spain	09/08
2007	Spanish Groundfish (Spring)	3NO	Apr-May	1995-2010	Stratified random bottom trawl	Groundfish	110	N		45-1374	Y	Y	N	Y	N	N	EU-Spain	09/12
2006	Spanish Groundfish (Spring)	3NO	Apr-May	1995-2010	Stratified random bottom trawl	Groundfish	120	N		45-1500	Y	Y	Y	N	N	N	Spain	09/12

Stock name: Witch flounder in Division 3LNO																	
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock size estimates	bio-abundance	ALK	LF	Individual weight	Country	SCR Doc. No.
2005	Spanish Groundfish (Spring)	3NO	Apr–May	1995–2010	Stratified random bottom trawl	Groundfish	119	N		45–1500	Y	Y	N	N	N	Spain	09/12
2004	Spanish Groundfish (Spring)	3NO	Apr–May	1995–2010	Stratified random bottom trawl	Groundfish	120	N		45–1500	Y	Y	N	N	N	Spain	09/12
2003	Spanish Groundfish (Spring)	3NO	Apr–May	1995–2010	Stratified random bottom trawl	Groundfish	118	N		45–1500	Y	Y	N	N	N	Spain	09/12
2002	Spanish Groundfish (Spring)	3NO	Apr–May	1995–2010	Stratified random bottom trawl	Groundfish	125	N		45–1500	Y	Y	N	N	N	Spain	09/12
2001	Spanish Groundfish (Spring)	3NO	Apr–May	1995–2010	Stratified random bottom trawl	Groundfish	204	N		45–1500	Y	Y	N	N	N	Spain	09/12
2000	Spanish Groundfish (Spring)	3NO	Apr–May	1995–2010	Stratified random bottom trawl	Groundfish	118	N		45–1500	Y	Y	N	N	N	Spain	09/12

Stock name: Capelin in Division 3NO																	
Year	Survey	Location	Month(s)	Year of Survey From/to or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock		Individual weight	Country	SCR Doc. No.		
											abundance $\times 10^9$	bio-mass $\times 10^3$	ALK	LF			
2009	Multi-species trawl survey	3NO	Apr–June	Since 1977	Stratified random Campelen trawl	Demersal fishes	482	+	50	45–105	0.8	9.6	N	Y	Y	Canada	10/21
2008	Multi-species trawl survey	3NO	Apr–June	Since 1977	Stratified random Campelen trawl	Demersal fishes	54	+	50	45–105	0.8	9.6	N	Y	Y	Canada	09/12
2007	Multi-species trawl survey	3NO	Apr–June	Since 1977	Stratified random Campelen trawl	Demersal fishes	54	+	50	45–105	0.8	9.6	N	Y	Y	Canada	08/32
2006	Multi-species trawl survey	3NO	Apr–June	Since 1977	Stratified random Campelen trawl	Demersal fishes	54	+	50	45–105	0.8	9.6	N	Y	Y	Canada	07/18
2005	Multi-species trawl survey	3NO	Apr–June	Since 1977	Stratified random Campelen trawl	Demersal fishes	157	+	100	45–719	0.3	3.9	N	Y	N	Canada	06/34
2004	Multi-species trawl survey	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	+	100	44–675	0.3	3.9	N	Y	N	Canada	05/64
2003	Multi-species trawl survey	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	+	100	39–726	0.3	3.9	N	Y	N	Canada	04/48
2002	Multi-species trawl survey	3NO	Apr–June	Since 1977	Stratified random Campelen trawl	Demersal fishes	158	+	100	42–668	N/I	N/I	N	N/I	N/I	Canada	03/37
2001	no info found				Stratified random Campelen trawl								N				
2000	no info found				Stratified random Campelen trawl								N				

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Stock name: White hake in division 3N0Ps																		
Year	Survey	Location	Month(s)	Year of Survey from/to or since	Type of survey and gear	Target Species	No. of fish-sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	abundance biomass ALK LF	Individual weight	Country	SCR Doc. No.		
2009	Canadian ground-fish (Spring)	3N0Ps	Apr–Jun	1971–2010	Stratified random Campelen trawl	Ground-fish and shellfish	482	Y	100	44–719	Y	Y	N	Y	Y	Y	Canada	10/21
2008	Canadian ground-fish (Spring)	3N0Ps	Apr–June	1971–2008	Stratified random Campelen trawl	Ground-fish and shellfish	320	Y	100	44–719	Y	Y	N	Y	Y	Y	Canada	09/12
2007	Canadian ground-fish (Spring)	3N0Ps	Apr–Jun	1971–2007	Stratified random Campelen trawl	Ground-fish and shellfish	218	Y	100	44–719	Y	Y	N	Y	Y	Y	Canada	08/32
2006	Canadian ground-fish (Spring)	3N0Ps	Apr–Jun	1971–2006	Stratified random Campelen trawl	Ground-fish and shellfish	102	Y	100	50–731	Y	Y	N	Y	Y	Y	Canada	07/18
2005	Canadian ground-fish (Spring)	3N0Ps	Apr–Jun	1971–2005	Stratified random Campelen trawl	Ground-fish and shellfish	290	Y	100	50–731	Y	Y	N	Y	Y	Y	Canada	06/34
2004	Canadian ground-fish (Spring)	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	44–675	Y	Y	N	Y	Y	Y	Canada	05/64
2003	Canadian ground-fish (Spring)	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	39–726	Y	Y	N	Y	Y	Y	Canada	04/48
2002	Canadian ground-fish (Spring)	3NO	Apr–Jun	1971–2006	Stratified random Campelen trawl	Ground-fish and shellfish	480	Y	100	<800	Y	Y	N	Y	Y	Y	Canada	06/33
2001	Canadian ground-fish (Spring)	3NO	Apr–Jun	1971–2007	Stratified random Campelen trawl	Ground-fish and shellfish	489	Y	100	<800	Y	Y	N	Y	Y	Y	Canada	06/33
2000	Canadian ground-fish (Spring)	3NO	Apr–Jun	1971–2008	Stratified random Campelen trawl	Ground-fish and shellfish	477	Y	100	<800	Y	Y	N	Y	Y	Y	Canada	06/33

Stock name: White hake in division 3NOPs																		
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of fish-sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	abundance biomass	ALK	LF	Individual weight	Country	SCR Doc. No.
2009	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2010	Stratified random bot-tom trawl	Ground-fish and shellfish	147	Y	100	48-1424	Y	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2008	Stratified random bot-tom trawl	Ground-fish and shellfish	130	Y	100	48-1419	Y	Y	Y	N	Y	Y	Canada	09/12
2007	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2007 some in 2006	Stratified random bot-tom trawl	Ground-fish and shellfish	193	Y	100	48-1419	Y	Y	Y	N	Y	Y	Canada	08/32
2006	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2006	Stratified random bot-tom trawl	Ground-fish and shellfish	144	Y	100	35-1462	Y	Y	Y	N	Y	Y	Canada	07/06, 08, 09, 12
2005	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2005 some in 2006	Stratified random bot-tom trawl	Ground-fish and shellfish	369	Y	100	35-1462	Y	Y	Y	N	Y	Y	Canada	06/34
2004	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2004 some in 2005	Stratified random bot-tom trawl	Ground-fish and shellfish	392	Y	100	35-1462	Y	Y	Y	N	Y	Y	Canada	05/60, 66
2003	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2004 some in 2006	Stratified random bot-tom trawl	Ground-fish and shellfish	399	Y	101	35-1463	Y	Y	Y	N	Y	Y	Canada	06/33
2002	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2004 some in 2007	Stratified random bot-tom trawl	Ground-fish and shellfish	396	Y	102	35-1464	Y	Y	Y	N	Y	Y	Canada	06/33
2001	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2004 some in 2008	Stratified random bot-tom trawl	Ground-fish and shellfish	370	Y	103	35-1465	Y	Y	Y	N	Y	Y	Canada	06/33
2000	Canadian ground-fish (Au-tumn)	3NO	Oct-Dec	1990-2004 some in 2009	Stratified random bot-tom trawl	Ground-fish and shellfish	313	Y	104	35-1466	Y	Y	Y	N	Y	Y	Canada	06/33

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Stock name: White hake in division 3N0Ps																			
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of fish- ing sets	24 hr fish- ing coverage in relation to stock distribu- tion (%)	Area of coverage in relation to stock distribu- tion (%)	Depth Range (m)	Research data related to stock	Stock size estimates	abun- dance	biomass	ALK	LF	Indi- vidual weight	Country	SCR Doc. No.
2009	Spanish Ground-fish (Spring)	3NO	May–June	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	95	N	unknown	40–1395	Y	Y	Y	N	N	N	N	Spain	SCR 11/07
2008	Spanish Ground-fish (Spring)	3NO	May–June	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	122	N	unknown	45–1374	Y	Y	Y	N	N	N	N	Spain	SCR 10/10
2007	Spanish Ground-fish (Spring)	3NO	Apr–May	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	111	N	unknown	44–1450	Y	Y	Y	N	Y	N	N	Spain	SCR 08/07
2006	Spanish Ground-fish (Spring)	3NO	Apr–May	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	120	N	unknown	56–1464	Y	Y	Y	N	Y	N	N	Spain	SCR 07/37
2005	Spanish Ground-fish (Spring)	3NO	Apr–May	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	119	N	unknown	56–1464	Y	Y	Y	N	Y	N	N	Spain	SCR 06/14
2004	Spanish Ground-fish (Spring)	3NO	Apr–May	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	120	N	unknown	56–1464	Y	Y	Y	N	Y	N	N	Spain	SCR 05/08,26
2003	Spanish Ground-fish (Spring)	3NO	Apr–May	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	118	N	unknown	56–1464	Y	Y	Y	N	Y	N	N	Spain	06/14
2002	Spanish Ground-fish (Spring)	3NO	Apr–May	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	125	N	unknown	56–1464	Y	Y	Y	N	Y	N	N	Spain	06/14
2001	Spanish Ground-fish (Spring)	3NO	Apr–May	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	204	N	unknown	56–1464	Y	Y	Y	N	Y	N	N	Spain	06/14
2000	Spanish Ground-fish (Spring)	3NO	Apr–May	Since 1997	Stratified random bot- tom trawl	Ground-fish and shellfish	118	N	unknown	56–1464	Y	Y	Y	N	Y	N	N	Spain	06/14

Stock name: Thorny skate in Division 3LNOPs																	
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock size estimates	abun-biomass	ALK	LF	Indi-vidual weight	Country	SCR Doc. No.
2009	Canadian groundfish (spring)	3LNOPs	Apr-July	Since 1997	Stratified random Campelen trawl	Ground-fish and shellfish	482	Y	100	44-719	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian groundfish (spring)	3LNOPs	Apr-July	Since 1997	Stratified random Campelen trawl	Ground-fish and shellfish	442	Y	100	44-719	Y	Y	N	Y	Y	Canada	09/12
2007	Canadian groundfish (spring)	3LNOPs	Apr-July	Since 1997	Stratified random Campelen trawl	Ground-fish and shellfish	355	Y	100	44-719	Y	Y	N	Y	Y	Canada	08/32
2006	Canadian groundfish (spring)	3LNOPs	Apr-June	Since 1997	Stratified random Campelen trawl	Ground-fish and shellfish	102	Y	100	50-731	Y	Y	N	Y	Y	Canada	07/18
2005	Canadian groundfish (spring)	3LNOPs	Apr-June	Since 1997	Stratified random Campelen trawl	Ground-fish and shellfish	290	Y	100	50-731	Y	Y	N	Y	Y	Canada	06/34
2004	Canadian groundfish (spring)	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	44-675	Y	Y	N	Y	Y	Canada	05/64
2003	Canadian groundfish (spring)	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	39-726	Y	Y	N	Y	Y	Canada	04/48
2002	Canadian groundfish (spring)	3LNNO	Spring	Since 1997	Stratified random Campelen trawl	Ground-fish and shellfish	304	Y	100	40-710	Y	Y	N	Y	Y	Canada	09/12
2001	Canadian groundfish (spring)	3LNNO	Spring	Since 1997	Stratified random Campelen trawl	Ground-fish and shellfish	312	Y	100	34-699	Y	Y	N	Y	Y	Canada	09/12
2000	Canadian groundfish (spring)	3LNNO	Spring	Since 1997	Stratified random Campelen trawl	Ground-fish and shellfish	298	Y	100	45-694	Y	Y	N	Y	Y	Canada	09/12

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Stock name: Thorny skate in Division 3LNOPs																	
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock size estimates	abun- biomass	ALK	LF	Indi-vidual weight	Country	SCR Doc. No.
2009	Canadian groundfish (Autumn)	3LNO	Oct-Dec	1990-2010 (some in 2006)	Stratified random-bottom trawl	Ground-fish and shellfish	343	Y	100	48-1424	Y	Y	N	Y	Y	Canada	10/21
2008	Canadian groundfish (Autumn)	3LNO	Oct-Dec	1990-2010 (some in 2006)	Stratified random-bottom trawl	Ground-fish and shellfish	256	Y	100	48-1424	Y	Y	N	Y	Y	Canada	09/12
2007	Canadian groundfish (Autumn)	3LNO	Oct-Dec	1990-2010 (some in 2006)	Stratified random-bottom trawl	Ground-fish and shellfish	361	Y	100	48-1424	Y	Y	N	Y	Y	Canada	08/32
2006	Canadian groundfish (Autumn)	3LNO	Oct-Dec	1990-2010 (some in 2006)	Stratified random-bottom trawl	Ground-fish and shellfish	144	Y	100	35-1462	Y	Y	N	Y	Y	Canada	07/06, 08/09, 12
2005	Canadian groundfish (Autumn)	3LNO	Oct-Dec	1990-2010 (some in 2006)	Stratified random-bottom trawl	Ground-fish and shellfish	369	Y	100	35-1462	Y	Y	N	Y	Y	Canada	06/34
2004	Canadian groundfish (Autumn)	3LNO	Oct-Dec	1990-2004 (some in 2005)	Stratified random-bottom trawl	Ground-fish and shellfish	392	Y	100	35-1462	Y	Y	N	Y	Y	Canada	05/49
2003	Canadian groundfish (Autumn)	3LNO	Oct-Dec	Since 1990	Stratified random-bottom trawl	Ground-fish and shellfish	358	Y	100	<1500	Y	Y	N	Y	Y	Canada	09/12
2002	Canadian groundfish (Autumn)	3LNO	Oct-Dec	Since 1990	Stratified random-bottom trawl	Ground-fish and shellfish	399	Y	100	<1500	Y	Y	N	Y	Y	Canada	09/12
2001	Canadian groundfish (Autumn)	3LNO	Oct-Dec	Since 1990	Stratified random-bottom trawl	Ground-fish and shellfish	396	Y	100	<1500	Y	Y	N	Y	Y	Canada	09/12
2000	Canadian groundfish (Autumn)	3LNO	Oct-Dec	Since 1990	Stratified random-bottom trawl	Ground-fish and shellfish	370	Y	100	<1500	Y	Y	N	Y	Y	Canada	09/12

Stock name: Thorny skate in Division 3LNOs																	
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance - biomass	Stock size estimates	ALK	Indi-vidual weight	Country	SCR Doc. No.	
2009	EU-Spain Groundfish	3NO	May-Jun	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	95	N		40-1395	Y	Y	N	Y	N	Spain	11/07
2008	Spanish Groundfish	3NO	May-Jun	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	122	N		38-1666	Y	Y	N	Y	N	Spain	SCS 09/09 SCR 09/10
2007	Spanish Groundfish	3NO	May-Jun	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	111	N		44-1450	Y	Y	N	Y	N	Spain	08/07
2006	Spanish Groundfish	3NO	May-Jun	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	120	N		56-1464	Y	Y	N	Y	N	Spain	07/37
2005	Spanish Groundfish	3NO	Apr-May	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	119	N		56-1464	Y	Y	N	Y	N	Spain	06/14
2004	Spanish Groundfish	3NO	Apr-May	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	120	N		56-1464	Y	Y	N	Y	N	Spain	05/08,26
2003	Spanish Groundfish	3NO	May-Jun	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	118	N		<1500	Y	Y	N	Y	N	Spain	06/14
2002	Spanish Groundfish	3NO	Apr-May	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	125	N		<1500	Y	Y	N	Y	N	Spain	06/14
2001	Spanish Groundfish	3NO	May	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	204	N		<1500	Y	Y	N	Y	N	Spain	06/14
2000	Spanish Groundfish	3NO	May	Since 1997	Stratified random-bottom trawl	Ground-fish and shellfish	118	N		<1500	Y	Y	N	Y	N	Spain	06/14

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Stock name: Thorny skate in Division 3L NOPs																	
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock size estimates	Stock abundance	Stock biomass	Stock weight	Country	SCR Doc. No.	
											ALK	LF					
2009	EU-Spain Groundfish	3L	Jul–Aug	Since 2003	Stratified random-bottom trawl	Ground-fish and shellfish	103	N		105–1463	Y	Y	N	Y	N	Spain	11/20
2008	Spanish Groundfish	3L	Jul–Aug	2003-2008	Stratified random-bottom trawl	Ground-fish and shellfish	100	N		105–1455	Y	Y	N	Y	N	Spain	SCS 09/09 SCR 09/24
2007	Spanish Groundfish	3L	Jul–Aug	2003-2007	Stratified random-bottom trawl	Ground-fish and shellfish	94	N		44–1463	Y	Y	N	Y	N	Spain	08/07
2006	Spanish Groundfish	3L	Jul–Aug	Since 2003	Stratified random-bottom trawl	Ground-fish and shellfish	100	N		<1500	Y	Y	N	Y	N	Spain	09/24
2005	No Survey																
2004	Spanish Groundfish	3L	August	Since 2003	Stratified random-bottom trawl	Ground-fish and shellfish	50	N		<1500	Y	Y	N	Y	N	Spain	09/24
2003	Spanish Groundfish	3L	June	Since 2003	Stratified random-bottom trawl	Ground-fish and shellfish	39	N		<1500	Y	Y	N	Y	N	Spain	09/24

Stock name: Redfish in Division 30																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance-biomass	Stock size estimates	ALK	LF	Individual weight	Country	SCR Doc. No.
2009	Spring bottom trawl survey	30	Apr-June	1971-10 (ex 2006)	Stratified random Campelen trawl	Multispecies Groundfish	482	Y	unknown	to 367	Y	Y	N	Y	N	Canada	10/21
2008	Canada Ground-fish	30	Apr-June	1971-08 (ex 2006)	Stratified random Campelen trawl	Multispecies Groundfish	30-39 in redfish depths	Y	unknown	to 367	Y	Y	N	Y	N	Canada	09/12
2007	Canada Ground-fish	30	Apr-June	1971-07 (ex 2006)	Stratified random Campelen trawl	Multispecies Groundfish	30-36 in redfish depths	Y	unknown	to 367	Y	Y	N	Y	N	Canada	08/32
2006	Canada Ground-fish	30	Apr-June	1971-90	Stratified random Campelen trawl	Multispecies Groundfish	30-36 in redfish depths	Y	unknown	to 367	Y	Y	N	Y	N	Canada	07/18
2005	Canada Ground-fish	30	Apr-June	1971-90	Stratified random Campelen trawl	Multispecies Groundfish	30-36 in redfish depths	Y	unknown	to 367	Y	Y	N	Y	N	Canada	06/34
2004	Canada Ground-fish	3NO	Apr-June	Since 1972 (not 1983)	Stratified random Campelen trawl	Multispecies	158	Y	unknown	44-675	Y	Y	N	Y	N	Canada	05/64
2003		3NO	Apr-June	Since 1972 (not 1983)	Stratified random Campelen trawl	Multispecies	158	Y	unknown	39-726	Y	Y	N	Y	N	Canada	04/48
2002	Canada Ground-fish	30	Apr-June	1971-90	Stratified random Campelen trawl	Multispecies Groundfish	30-36 in redfish depths	Y	unknown	to 367	Y	Y	N	Y	N	Canada	NAFO studies No. 2
2001					Stratified random Campelen trawl										N		
2000					Stratified random Campelen trawl										N		

Stock name: <i>Elaasmobranch</i> in Subarea 2-6																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Individual weight	Country	SCR Doc. No.			
											abundance	biomass	ALK	LF			
2009	Canadian spring multi-species	N/I			Stratified random Campel-en trawl		482						N	10/21			
2008	Canadian spring multi-species	SA3	Apr-June	Since 1971	Stratified random Campel-en trawl	Multi-species	~200	Y	Partial	50-1100	Y	Y	N	Y	N	Canada	09/12
2007	Canadian spring multi-species	SA3	Apr-June	Since 1971	Stratified random Campel-en trawl	Multi-species	~200	Y	Partial	50-1100	Y	Y	N	Y	N	Canada	08/32
2006	Canadian spring multi-species	N/I			Stratified random Campel-en trawl								N	07/18			
2005	Canadian spring multi-species	N/I			Stratified random Campel-en trawl								N	06/34			
2004	Canadian spring multi-species	3NO	Apr-June	Since 1972 (not 1983)	Stratified random Campel-en trawl	Multi-species	158			44-675			N	05/64			
2003	Canadian spring multi-species	3NO	Apr-June	Since 1972 (not 1983)	Stratified random Campel-en trawl	Multi-species	158			39-726			N	04/48			
2002	Canadian spring multi-species	N/I			Stratified random Campel-en trawl								N				
2001	Canadian spring multi-species	SA3	Apr-June	Since 1971	Stratified random Campel-en trawl	Multi-species	~200	Y	Partial	50-1100	Y	Y	N	Y	N	Canada	02/10

Stock name: <i>Elaasmobranch</i> in Subarea 2–6																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance biomass	ALK	LF	Individual weight	Country	SCR Doc. No.	
2008	Bottom trawl Scotia Shelf	N/I															
2007	Bottom trawl Scotia Shelf	N/I															
2006	Bottom trawl Scotia Shelf	N/I															
2005	Bottom trawl Scotia Shelf	N/I															
2004	Bottom trawl Scotia Shelf	N/I															
2003	Bottom trawl Scotia Shelf	N/I															
2002	Bottom trawl Scotia Shelf	N/I															
2001	Canadian Bottom trawl Scotia Shelf	SA4	July	since 1970	Stratified bottom trawl	Multi-species	Y				Y	Y	N	Y	N	Canada	
2000	Bottom trawl Scotia Shelf	SA4	July	1970–2000	Stratified bottom trawl	Multi-species	Y				Y	Y	N	Y	N	Canada	N/I
2009	Spanish bottom trawl	3NO (NRA)	May–June	Since 1995	Stratified random Campellen trawl	Ground-fish	109		Partial	45–1374	Y	Y	N	Y	N	Spain	10/10
2008	Spanish bottom trawl	3NO (NRA)	May–June	Since 1995	Stratified random Campellen trawl	Ground-fish	122		Partial	45–1374	Y	Y	N	Y	N	Spain	10/10

Stock name: Roughhead Grenadier in Subarea 2 and 3																		
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	abun- biomass ALK LF dance	Indi-vidual weight	Country	SCR Doc. No.		
2009	Canadian Autumn Survey	2GHJ 3MLNO	Oct-Dec	Since 1978	Stratified random Campelen trawl	Ground-fish and shellfish	482	Y	100	<1500	Y	Y	Y	N	Y	N	Canada	10/21
2008	Canadian Autumn Survey	2GHJ 3MLNO	Oct-Dec	Since 1978	Stratified random Campelen trawl	Ground-fish and shellfish	532	Y	100	<1500	Y	Y	Y	N	N	N	Canada	09/12
2007	Canadian Autumn Survey	2GHJ 3MLNO	Oct-Dec	Since 1978	Stratified random Campelen trawl	Ground-fish and shellfish	631	Y	100	<1500	Y	Y	Y	N	N	N	Canada	08/32
2006	Canadian Autumn Survey	2GHJ 3MLNO	Oct-Dec	Since 1978	Stratified random Campelen trawl	Ground-fish and shellfish	704	Y	100	<1500	Y	Y	Y	N	N	N	Canada	07/18
2005	Canadian Autumn Survey	2GHJ 3MLNO	Oct-Dec	Since 1978	Stratified random Campelen trawl	Ground-fish and shellfish	290	Y	100	<1500	Y	Y	Y	N	N	N	Canada	06/34
2004	Canadian Autumn Survey	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	44-675	Y	Y	Y	N	N	N	Canada	05/64
2003	Canadian Autumn Survey	3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Campelen trawl	Multi-species	158	Y	100	39-726	Y	Y	Y	N	N	N	Canada	04/48
2002	Canadian Autumn Survey	2GHJ 3MLNO	Oct-Dec	Since 1978	Stratified random Campelen trawl	Ground-fish and shellfish	717	Y	100	<1500	Y	Y	Y	N	Y	N	Canada	09/12
2001	Canadian Autumn Survey	2HI 3KL/M- NO	Oct-Dec	Since 1978	Stratified random Campelen trawl	Ground-fish and shellfish	764	Y	100	<1500	Y	Y	Y	N	N	N	Canada	09/12
2000	Canadian Autumn Survey	2I 3KL/M- NO	Oct-Dec	Since 1978	Stratified random Campelen trawl	Ground-fish and shellfish	672	Y	100	<1500	Y	Y	Y	N	N	N	Canada	09/12

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Stock name: Roughhead Grenadier in Subarea 2 and 3															
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates	Stock size estimates	Indiv-vidual weight	Country	SCR Doc. No.
											abun- biomass	ALK	LF		
2009	Canadian Spring Survey	3LN0	May–July	Since 1978	Campelen	Ground-fish and shellfish	299	Y	100	<730	Y	N	N	Canada	10/21
2008	Canadian Spring Survey	3LN0	May–July	1978–2006	Campelen	Ground-fish and shellfish	273	Y	100	<730	Y	N	N	Canada	09/12
2007	Canadian Spring Survey	3LN0	May–July	1978–2006	Campelen	Ground-fish and shellfish	295	Y	100	<730	Y	N	N	Canada	08/32
2006	Canadian Spring Survey	3LN0	May–July	Since 1978	Campelen	Ground-fish and shellfish	195	Y	100	<730	Y	N	N	Canada	07/18
2005	Canadian Spring Survey	3LN0	May–July	Since 1978	Campelen	Ground-fish and shellfish	290	Y	100	<730	Y	N	N	Canada	06/34
2004	Canadian Spring Survey	3LN0	May–July	Since 1978	Campelen	Ground-fish and shellfish	309	Y	100	<730	Y	N	N	Canada	05/08
2003	Canadian Spring Survey	3LN0	May–July	Since 1978	Campelen	Ground-fish and shellfish	314	Y	100	<730	Y	N	N	Canada	09/12
2002	Canadian Spring Survey	3LN0	May–July	Since 1978	Campelen	Ground-fish and shellfish	68	Y	100	<730	Y	N	N	Canada	09/12
2001	Canadian Spring Survey	3LN0	May–July	Since 1978	Campelen	Ground-fish and shellfish	312	Y	100	<730	Y	N	N	Canada	09/12
2000	Canadian Spring Survey	3LN0	May–July	Since 1978	Campelen	Ground-fish and shellfish	298	Y	100	<730	Y	N	N	Canada	09/12
2009	Spanish Survey	3NO	May–Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	109	N	Low	<1500	Y	Y	Y	EU-ESP	10/08
2008	Spanish Survey	3NO	May–Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	123	N	Low	<1500	Y	Y	Y	EU-ESP	09/10

Stock name: Roughhead Grenadier in Subarea 2 and 3																
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%) ^a	Depth Range (m)	Research data related to stock abundance- biomass	Stock size estimates	Stock size estimates ALK LF	Indi-vidual weight	Country	SCR Doc. No.
2007	Spanish Survey	3NO	May-Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	111	N	Low	<1500	Y	Y	Y	Y	EU-ESP	08/09
2006	Spanish Survey	3NO	May-Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	120	N	Low	<1500	Y	Y	Y	Y	EU-ESP	07/37
2005	Spanish Survey	3NO	May-Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	120	N	Low	<1500	Y	Y	Y	Y	EU-ESP	06/14
2004	Spanish Survey	3NO	May-Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	120	N	Low	<1500	Y	Y	Y	Y	EU-ESP	05/28
2003	Spanish Survey	3NO	May-Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	118	N	Low	<1500	Y	Y	Y	Y	EU-ESP	10/08
2002	Spanish Survey	3NO	May-Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	125	N	Low	<1500	Y	Y	Y	Y	EU-ESP	10/08
2001	Spanish Survey	3NO	May-Jun	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	204	N	Low	<1500	Y	Y	Y	Y	EU-ESP	10/08

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Stock name: Roughhead Grenadier in Subarea 2 and 3

Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates	biomass	ALK	LF	Individual weight	Country	SCR Doc. No.
2000	Spanish Survey	3NO	May–June	Since 1995	Stratified Random <=2001 Pedreira >=2001 Campelen	Ground-fish	118	N	Low	<1500	Y	Y	Y	Y	Y	EU-ESP	10/08
2009	Spanish Survey	3L	Jul–Aug	Since 2003	Stratified random Campelen	Ground-fish	98	N	Low	<1500	Y	Y	Y	Y	Y	EU-ESP	10/18
2008	Spanish Survey	3L	Jul–Aug	Since 2003	Stratified random Campelen	Ground-fish	100	N	Low	<1500	Y	Y	Y	Y	Y	EU-ESP	10/18
2007	Spanish Survey	3L	Jul–Aug	Since 2003	Stratified random Campelen	Ground-fish	94	N	Low	<1500	Y	Y	Y	Y	Y	EU-ESP	10/18
2006	Spanish Survey	3L	Jul–Aug	Since 2003	Stratified random Campelen	Ground-fish	100	N	Low	<1500	Y	Y	Y	Y	Y	EU-ESP	10/18
2005	No Survey																
2004	Spanish Survey	3L	Aug	Since 2003	Stratified random Campelen	Ground-fish	50	N	Low	<1500	Y	Y	Y	Y	Y	EU-ESP	10/18
2003	Spanish Survey	3L	June	Since 2003	Stratified random Campelen	Ground-fish	39	N	Low	<1500	Y	Y	Y	Y	Y	EU-ESP	10/18
2009	EU Flem-ish Cap	3M	July	Since 1988	Stratified random Campelen	Ground-fish Shrimp	153	N	Flemish Cap	<1500	Y	Y	Y	Y	Y	EU-ESP EU-PRT	11/21
2008	EU Flem-ish Cap	3M	July	Since 1988	Stratified Random (Lofoten)	Ground-fish Shrimp	179	N	Flemish Cap	<1500	Y	Y	Y	Y	Y	EU-ESP EU-PRT	09/19
2007	EU Flem-ish Cap	3M	July	Since 1988	Stratified random Campelen	Ground-fish Shrimp	178	N	Flemish Cap	<1500	Y	Y	Y	Y	Y	EU-ESP EU-PRT	08/27, 34
2006	EU Flem-ish Cap	3M	July	Since 1988	Stratified random Campelen	Ground-fish Shrimp	181	N	Flemish Cap	<1500	Y	Y	Y	Y	Y	EU-ESP EU-PRT	07/10, 25
2005	EU Flem-ish Cap	3M	July	Since 1988	Stratified random Campelen	Ground-fish Shrimp	176	N	Flemish Cap	<720	Y	Y	Y	Y	Y	EU-ESP EU-PRT	06/07, 16

Stock name: Roughhead Grenadier in Subarea 2 and 3																	
Year	Survey	Location	Month(s)	Year of Survey from/to/or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock	Stock size estimates	abun- biomass ALK LF dance	Indi-vidual weight	Country	SCR Doc. No.	
2004	EU Flem- ish Cap	3M	July	Since 1988	Stratified random (Lofoten)	Ground- fish Shrimp	124	N	Flemish Cap	<720	Y	Y	Y	Y	Y	EU-ESP EU-PRT	05/29, 36
2003	EU Flem- ish Cap	3M	Jun-Jul	Since 1988	Stratified random (Lofoten)	Ground- fish Shrimp	177	N	Flemish Cap	<720	Y	Y	Y	Y	Y	EU-ESP EU-PRT	09/19
2002	EU Flem- ish Cap	3M	July	Since 1988	Stratified random (Lofoten)	Ground- fish Shrimp	120	N	Flemish Cap	<720	Y	Y	Y	Y	Y	EU-ESP EU-PRT	03/13, 42
2001	EU Flem- ish Cap	3M	August	Since 1988	Stratified random (Lofoten)	Ground- fish Shrimp	120	N	Flemish Cap	<720	Y	Y	Y	Y	Y	EU-ESP EU-PRT	09/19
2000	EU Flem- ish Cap	3M	Sept.	Since 1988	Stratified random (Lofoten)	Ground- fish Shrimp	120	N	Flemish Cap	<720	Y	Y	Y	Y	Y	EU-ESP EU-PRT	09/19
2002	Russian	3M	May-Jun	2001 and 2002	Stratified random bottom trawl	Ground- fish	94	Y	Flemish Cap	120-1280	Y	Y	Y	Y	Y	Russia	03/09
2001	Russian	3M	May-Jun	2001 and 2002	Stratified random bottom trawl	Ground- fish	90	Y	Flemish Cap	120-1280	Y	Y	Y	Y	Y	Russia	03/09

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Stock name: Short-finned Squid in Subareas 3 and 4															
Year	Survey	Location	Month(s)	Year of Survey from/ to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance biomass	Stock size estimates	Individual weight	Country	SCR Doc. No.
											ALK	LF			
2005	July Multi-species bottom trawl	SA 4	July	Since 1970	Stratified random Cam-pelen trawl	Multi-species	~190	Y	20–366	Y	Y	N	Y	N	Canada 06/34
2004	July Multi-species bottom trawl	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Cam-pelen trawl	Multi-species	158	Y	39–726	Y	Y	N	Y	N	Canada 04/48
2003	July Multi-species bottom trawl	3NO	Apr–Jun	Since 1972 (not 1983)	Stratified random Cam-pelen trawl	Multi-species	158	Y	39–726	Y	Y	N	Y	N	Canada 04/48
2002	July Multi-species bottom trawl	SA 4	July	Since 1970	Stratified random Cam-pelen trawl	Multi-species	~190	Y	20–366	Y	Y	N	Y	N	Canada 03/48
2001	July Multi-species bottom trawl	SA 4	July	Since 1970	Stratified random Cam-pelen trawl	Multi-species	~190	Y	20–366	Y	Y	N	Y	N	Canada 01/61
2000	July Multi-species bottom trawl	SA 4	July	Since 1970	Stratified random Cam-pelen trawl	Multi-species	~190	Y	20–366	Y	Y	N	Y	N	Canada 00/36
2005	Autumn Multi-species bottom trawl	4T	Sept.	Since 1971	Stratified random bottom trawl	Multi-species	Y	Y	Y	Y	N	N	N	Canada 06/34	
2004	Autumn multispecies bottom trawl	4T	Sept.	Since 1971	Stratified random bottom trawl	Multi-species	Y	Y	Y	Y	N	N	N	Canada 05/45	
2003	Autumn multispecies bottom trawl	4T	Sept.	Since 1971	Stratified random bottom trawl	Multi-species	Y	Y	Y	Y	N	N	N	Canada 04/38	

Stock name: Short-finned Squid in Subareas 3 and 4																	
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance-biomass	Stock size estimates	ALK	LF	Individual weight	Country	SCR Doc. No.
2002	Autumn multispecies bottom trawl	4T	Sept.	Since 1971	Stratified random bottom trawl	Multi-species	Y	Y	Y	Y	Y	N	N	N	N	Canada	03/48
2001	Autumn multispecies bottom trawl	4T	Sept.	Since 1971	Stratified random bottom trawl	Multi-species	Y	Y	Y	Y	Y	N	N	N	N	Canada	01/61
2000	Autumn multispecies bottom trawl	4T	Sept.	Since 1971	Stratified random bottom trawl	Multi-species	Y	Y	Y	Y	Y	N	N	N	N	Canada	00/36
2009	EU Flem-ish Cap multispecies bottom trawl	3M	Jun-Jul	Since 1988	Stratified random bottom trawl	Multi-species	178	N	<1400	Y	Y	Y	N	Y	N	EU (Spain)	10/23
2008	EU Flem-ish Cap multispecies bottom trawl	3M	Jun-Jul	Since 1988	Stratified random bottom trawl	Multi-species	179	N	<1400	Y	Y	Y	N	Y	N	EU (Spain)	09/19
2007	EU Flem-ish Cap multispecies bottom trawl	3M	Jun-Jul	Since 1988	Stratified random bottom trawl	Multi-species	174	N	<1460	Y	Y	Y	N	Y	N	EU (Spain)	08/34
2006	EU Flem-ish Cap multispecies bottom trawl	3M	Jun-Jul	Since 1988	Stratified random bottom trawl	Multi-species	179	N	<1400	Y	Y	Y	N	Y	N	EU (Spain)	07/10
2005	EU Flem-ish Cap multispecies bottom trawl	3M	Jul-Aug	Since 1988	Stratified random bottom trawl	Multi-species	176	N	<1400	Y	Y	Y	N	Y	N	EU (Spain)	06/46 06/16
2004	EU Flem-ish Cap multispecies bottom trawl	3M	Jun-Aug	Since 1988	Stratified random bottom trawl	Multi-species	177	N	<1400	Y	Y	Y	N	Y	N	EU (Spain)	05/35
2003	EU Flem-ish Cap multispecies bottom trawl	3M	Jun-Jul	Since 1988	Stratified random bottom trawl	Multi-species	114	N	<1400	Y	Y	Y	N	Y	N	EU (Spain)	04/21

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Stock name: Short-finned Squid in Subareas 3 and 4																
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance biomass	Stock size estimates	Individual weight	Country	SCR Doc. No.	
											ALK	LF				
2002	EU Flemish Cap multispecies bottom trawl	3M	Jun-Jul	Since 1988	Stratified random bottom trawl	Multi-species	120	N	<730	Y	Y	N	Y	N	EU (Spain)	03/12
2001	EU Flemish Cap multispecies bottom trawl	3M	July	Since 1988	Stratified random bottom trawl	Multi-species	120	N	<730	Y	Y	N	Y	N	EU (Spain)	02/12
2000	EU Flemish Cap multispecies bottom trawl	3LNO	July	Since 1988	Stratified random bottom trawl	Multi-species	120	N	<730	Y	Y	N	Y	N	EU (Spain)	01/22
2009	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	299	Y	<700	Y	Y	N	Y	N	Canada	10/21
2008	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	273	Y	<704	Y	Y	N	Y	N	Canada	09/12
2007	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	295	Y	<704	Y	Y	N	Y	N	Canada	09/12
2006	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	195	Y	<704	Y	Y	N	Y	N	Canada	09/12
2005	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	290	Y	<704	Y	Y	N	Y	N	Canada	09/12
2004	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	309	Y	<704	Y	Y	N	Y	N	Canada	05/45
2003	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	314	Y	<704	Y	Y	N	Y	N	Canada	09/12

Stock name: Short-finned Squid in Subareas 3 and 4															
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance-biomass	Stock size estimates	Individual weight	Country	SCR Doc. No.
											ALK	LF			
2002	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	304	Y	<704	Y	Y	N	Y	N	Canada 09/12
2001	Spring multispecies bottom trawl	3LNO	Apr-June	Since 1996	Stratified random bottom trawl	Multi-species	312	Y	<704	Y	Y	N	Y	N	Canada 09/12
2009	Autumn multispecies bottom trawl	3KLNO	Sep-Dec, may extends through Jan in some years	Since 1995	Stratified random bottom trawl	Multi-species	478	Y	<1450	Y	Y	N	Y	N	Canada 10/21
2008	Autumn multispecies bottom trawl	3KLNO	Sep-Dec, may extends through Jan in some years	Since 1995	Stratified random bottom trawl	Multi-species	364	Y	<1450	Y	Y	N	Y	N	Canada 09/12
2007	Autumn multispecies bottom trawl	3KLNO	Sep-Dec, may extends through Jan in some years	Since 1995	Stratified random bottom trawl	Multi-species	490	Y	<1450	Y	Y	N	Y	N	Canada 09/12
2006	Autumn multispecies bottom trawl	3KLNO	Sep-Dec, may extends through Jan in some years	Since 1995	Stratified random bottom trawl	Multi-species	483	Y	<1450	Y	Y	N	Y	N	Canada 09/12

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Stock name: Short-finned Squid in Subareas 3 and 4																		
Year	Survey	Location	Month(s)	Year of Survey from/to/ or since	Type of survey and gear	Target Species	No. of sets	24 hr fish-ing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock size estimates	abun- dance	biomass	ALK	LF	Individual weight	Country	SCR Doc. No.
2005	Autumn multispecies bottom trawl	3KLNO	Sep–Dec, may extends through Jan in some years	Since 1995	Stratified random bottom trawl	Multi-species	536	Y	<1450	Y	Y	N	Y	N	N	N	Canada	09/12
2004	Autumn multispecies bottom trawl	3KLNO	Sep–Dec, may extends through Jan in some years	Since 1995	Stratified random bottom trawl	Multi-species	443	Y	<1450	Y	Y	N	Y	N	N	N	Canada	09/12
2003	Autumn multispecies bottom trawl	3KLNO	Sep–Dec, may extends through Jan in some years	Since 1995	Stratified random bottom trawl	Multi-species	526	Y	<1450	Y	Y	N	Y	N	N	N	Canada	09/12
2002	Autumn multispecies bottom trawl	3KLNO	Sep–Dec, may extends through Jan in some years	Since 1995	Stratified random bottom trawl	Multi-species	574	Y	<1450	Y	Y	N	Y	N	N	N	Canada	09/12
2001	Autumn multispecies bottom trawl	SA 2+3 (213KLM-NO)	Sep–Dec	Since 1995	Stratified random bottom trawl - Can-pelen 1800	Multi-species	764	Y	<1450	Y	Y	N	Y	N	N	N	Canada	09/12

Stock name: Short-finned Squid in Subareas 5 & 6																	
Year	Survey	Location	Month(s)	Year of Survey from/for since	Type of survey and gear	Target Species	No. of sets	24 hr fishing	Area of coverage in relation to stock distribution (%)	Depth Range (m)	Research data related to stock abundance estimates	Stock size estimates	Individual weight	Country	SCR Doc. No.		
											abundance	biomass	ALK	LF			
2009					Stratified random Cam-pelen trawl		482				N				10/21		
2008					Stratified random Cam-pelen trawl						N				09/12		
2007					Stratified random Cam-pelen trawl						N				08/32		
2006					Stratified random Cam-pelen trawl						N				07/18		
2005	Autumn multi-species bottom trawl	SA 5+6	Sep-Dec	since 1967	Stratified random Cam-pelen trawl	Multi-species	~350	Y	unknown	20-366	Y	Y	N	Y	N	USA	06/34
2004		3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Cam-pelen trawl	Multi-species	158	Y	unknown	44-675	Y	Y	N	Y	N	USA	05/64
2003		3NO	Apr-Jun	Since 1972 (not 1983)	Stratified random Cam-pelen trawl	Multi-species	158	Y	unknown	39-726	Y	Y	N	Y	N	USA	04/48
2002					Stratified random Cam-pelen trawl						N						

