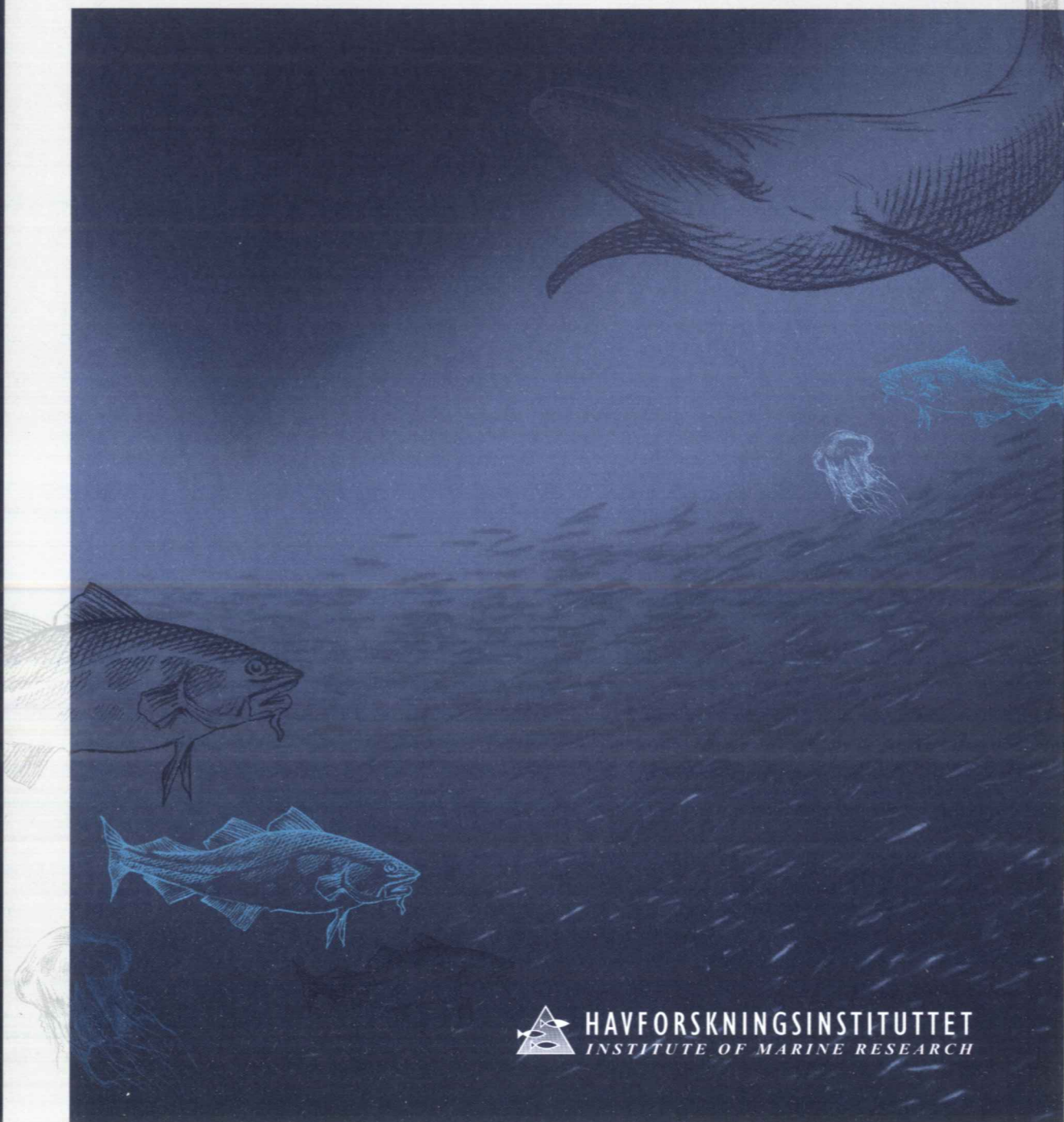


**Oversikt over tokt og stasjoner tatt i 2007**  
**Report on oceanographic cruises**  
**and data stations, 2007**

By Vigdis Rong

Maps made by Karen Gjertsen and Svein Erik Enersen ("G.M. Dannevig")



# PROSJEKTRAPPORT



Nordnesgaten 50, Postboks 1870 Nordnes, 5817 BERGEN  
Tlf. 55 23 85 00, Faks 55 23 85 31, [www.imr.no](http://www.imr.no)

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<b>Rapport:</b> FISKEN OG HAVET	<b>Nr. - År</b> 4-2008
<b>Tittel (norsk/engelsk):</b> <b>Oversikt over tokt og stasjoner tatt i 2007</b> <b>Report on oceanographic cruises and data stations, 2007</b>	
<b>Forfatter(e):</b> Vigdis Rong. Maps made by Karen Gjertsen and Svein Erik Enersen ("G.M. Dannevig")	

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<b>Program:</b>
<b>Faggruppe:</b> Norsk marint datasenter
<b>Antall sider totalt:</b> 70

## Sammendrag (norsk):

Rapporten gir en oversikt over tokt i regi av Havforskningsinstituttet og Universitetet i Bergen med forskningsfartøylene "G.O. Sars", "Johan Hjort", "Håkon Mosby" og "G.M. Dannevig" i 2007. Kartene viser hovedsakelig CTD- og trålstasjoner, men også planktonstasjoner. For de fleste toktene vises kurs- og stasjonskart samt oversikt over når de faste snittene er tatt. Antall observasjoner pr. måned for de faste stasjonene langs kysten er vist i egen tabell. Oversiktene er innrapporterte til Det internasjonale råd for havforskning (ICES) i skjemaet "Cruise Summary Report". Data fra toktene er tilgjengelig fra Norsk marint datasenter ved Havforskningsinstituttet.

## Summary (English):

The report presents cruises carried out by the research vessels "G.O. Sars", "Johan Hjort", "Håkon Mosby" og "G.M. Dannevig" on behalf of the Institute of Marine Research and the University in Bergen during 2007. The charts mainly show CTD and trawl stations. Some charts also include plankton stations. Beside tracks and stations, standard sections observed are listed. A separate table lists the number of observations per month for the fixed stations along the Norwegian coast. The overviews are reported to the International Council for the Exploration of the Sea (ICES) in the "Cruise Summary Report". The data may be requested from the Norwegian Marine Datacentre at the Institute of Marine Research.

## Emneord (norsk):

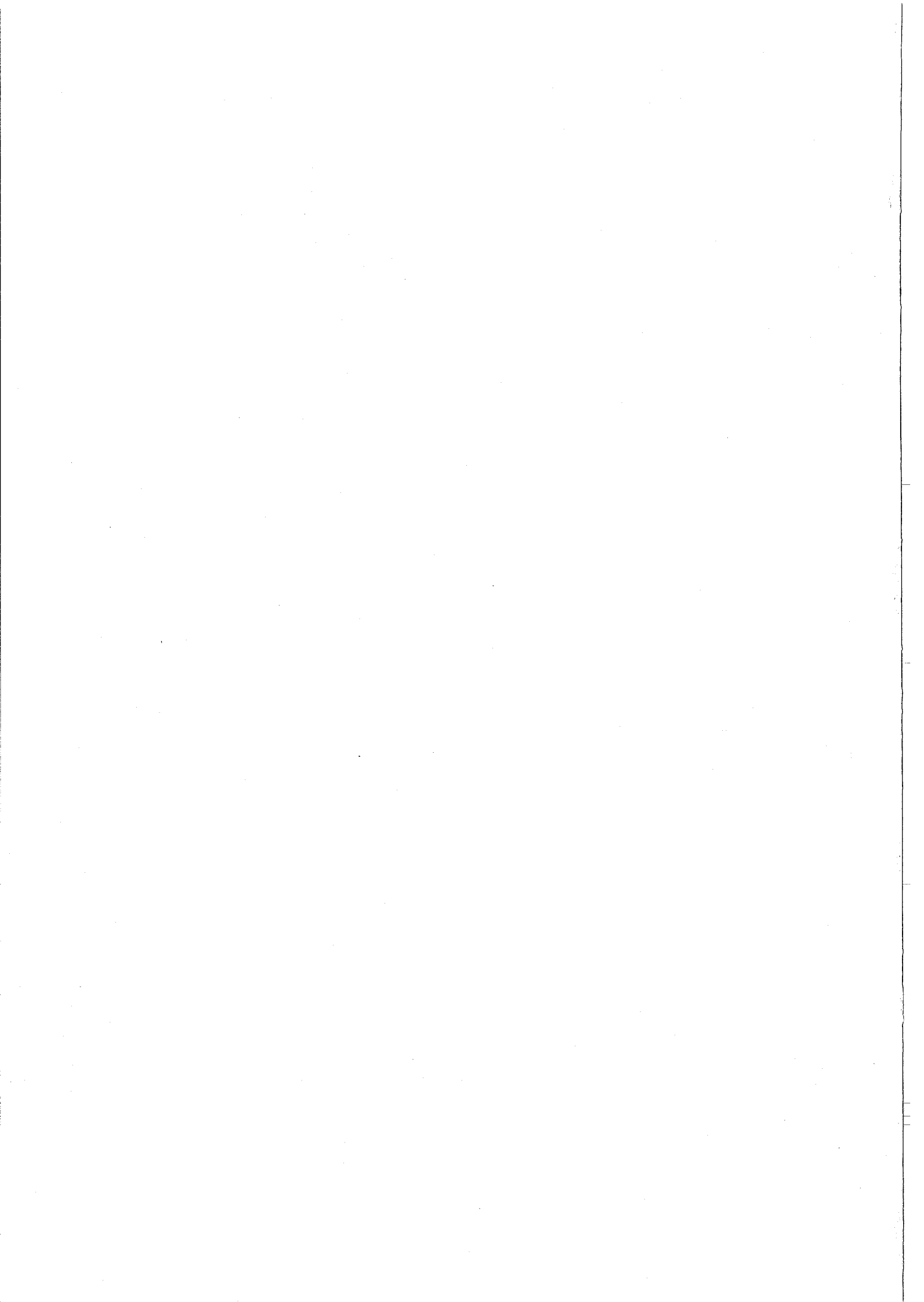
1. Kurskart
2. Stasjonskart
3. Toktmetadata

## Subject heading (English):

1. Cruise track charts
2. Station charts
3. Cruise metadata

*Helge Sægen*  
prosjektleder

*Helge Sægen*  
faggrøppeleder



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# 1 Cruises 2007

## 1.1 G.O. Sars (Ship no 10)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD-ST		TRAWL ST		PAGE OF CHART	COMMENT
	Start	End			Start	End	Start	End		
2007101	8 Jan	14 Jan			-	-	-	-	-	Cancelled
2007102	20 Jan	26 Jan	MUST and Messor final evaluation of equipment.	Western Norway	-	-	-	-	-	Cancelled
2007103	12 Feb	14 Mar	Ecosystem survey Barents Sea, NIFES-project.	Barents Sea	1	71	1	164	16-17	
2007104	15 Mar	28 Mar	Development of new trawl for testing. Trawl procedures for reduced bottom influence (DEGREE). Midwater trawling, cod/haddock.	Barents Sea	72	72	165	192	18	
2007105	30 Mar	21 Apr	MAREANO-survey. Coral reef. Hydrographic standard sections. Plankton.	Tromsøflaket - LoppHAVET, East of Fimmark, Vesterålen	73	92	-	-	19	
2007106	25 Apr	1 June	Density measurements of Atlantic herring, NIFES-project. Testing PROMUS, MS 70. Density measurements of Red-fish. Radioactivity.	Norwegian Sea	93	161	193	305	20-21	
2007107	2 June	21 June	IPY-NESSAR, front studies. Plankton.	Norwegian Sea	162	238	306	322	22-24	
2007108	25 June	19 July	Seismic investigations Knipovich ridge.	Norwegian Sea	239	310	-	-	24	
2007109	22 July	13 Aug	Sedimentary systems mid-Norwegian margin. RAPID.	North Sea	311	321	-	-	25	
2007110	14 Aug	30 Sep	Ecosystem survey Barents Sea, NIFES-project. Plankton. Hydrographic standard sections. Surveillance contamination.	Barents Sea	322	439	323	528	26-28	
2007111	1 Oct	23 Oct	MAREANO-survey. Hydrographic standard sections. Distribution of sponge aggregates.	Vesterålen	440	460	-	-	29-30	
2007112	27 Oct	29 Oct	GEOL 201. Field course in marine geology and geophysics.	Western Norway	461	462	-	-	31	
2007113	15 Nov	31 Dec	RETRO (Response of Tropical Atlantic Surface and Intermediate Waters to Changes in the Atlantic Meridional Overturning Circulation).	South-Atlantic, Western Tropical Atlantic	463	470	-	-	32	

1.2 Johan Hjort (Ship no 12)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD ST		TRAWL ST		PAGE OF CHART	COMMENT
	Start	End			Start	End	Start	End		
2007201	8 Jan	9 Jan			-	-	-	-	-	Cancelled
2007202	10 Jan	29 Jan	Hydrography, nutrients, phytoplankton and zooplankton on the oceanographic sections.	Norwegian Sea/ Barents Sea	1	67	-	-	33	
2007203	1 Feb	15 Mar	Ecosystem survey Barents Sea, NIFES-project. Hydrography and plankton. Inter calibration trawl.	Barents Sea	68	189	1	192	34-35	
2007204	17 Mar	7 Apr	Spawning areas NA cod survey.	Senja-Lofoten, Vestfjorden, Foldafjordene	190	356	193	223	36-37	
2007205	11 Apr	13 May	Sandeel. Plankton. Radioactivity. Hydrography.	North Sea / Skagerrak	357	456	224	252	38-40	
2007206	14 May	9 June	Egg survey west of Ireland.	Atlantic Ocean near Ireland	457	596	253	263	41-42	
2007207	20 June	21 June	MUST and MESSOR, final evaluation.		-	-	-	-	-	Cancelled
2007208	21 June	19 July	Ecosystem survey North Sea, NIFES-project. Hydrography.	North Sea	597	762	264	367	43-44	
2007209	23 July	31 July	Svinøy section and Gimsøy section. Plankton.	Norwegian Sea	763	787	368	373	45-46	
2007210	1 Aug	25 Sep	Ecosystem survey Barents Sea. Hydrography.	Barents Sea and the north/east part of the Norwegian Sea	788	909	374	560	47-49	
2007211	1 Oct	11 Oct	Acoustic survey mackerel distribution.	North Sea	910	951	561	580	50-51	
2007212	15 Oct	11 Nov	Ecosystem survey, the Norwegian coast.	Norwegian coast	952	994	581	659	52-53	
2007213	14 Nov	26 Nov	Hydrography. Plankton.		995	1039	660	665	54-55	
2007214	26 Nov	18 Dec	Wintering Norwegian spring-spawning herring, Norwegian Sea. Investigation oil spill North Sea.		1040	1053	666	690	56-57	

### 1.3 Håkon Mosby (Ship no 1)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD ST		TRAWL ST		PAGE OF CHART	COMMENT
	Start	End			Start	End	Start	End		
2007601	6 Jan	7 Jan	Calibrating EK60.	Tynes	1	1	-	-	58	
2007602	8 Jan	6 Feb	International Bottom Trawl Survey (IBTS) 1. quarter, NIFES-project. Hydrography. Investigation oil spill M/S "Server".	North Sea	2	103	1	26	59-61	
2007603	7 Feb	22 Feb	Shrimp survey, NIFES-project. Hydrography.	Skagerrak	104	186	27	92	62	
2007604	27 Feb	8 Mar	GEOF332, Oceanography.	Western Norway, mainly Sognefjorden	187	326	-	-	63	
2007605	9 Mar	11 Mar	Geotekn 2007.	Western Norway	-	-	-	-	-	No CTD data
2007606	12 Mar	15 Mar	GEOF 231 Operational oceanography.	Western Norway, mainly Sognefjorden	327	373	-	-	64	
2007607	16 Mar	23 Mar	Damocles/IPY. Surveillance of the Gulf Stream in the Svinøy section.	Norwegian Sea, Sognefjorden.	374	379	-	-	65	
2007608	26 Mar	27 Mar	GEOF130 Oceanography, educational cruise.	Western Norway, Sørfornden near Osterøy	380	391	-	-	65	
2007609	28 Mar	11 Apr	Herring larvae survey.	Norwegian coast from Bergen to Bodø	392	482	-	-	66	
2007610	21 Apr	5 May	Hydrography Norwegian Sea, Bjørnøya-V, Fugløya-Bjørnøya included rig replacement.	Norwegian Sea- Barents Sea	483	546	93	98	67-68	
2007611	7 May	2 June	Mengdemåling av vassild, hydrography, plankton and rig work on the Svinøy section.	Norwegian shelf from Tromsø to Skagerrak	547	595	99	141	69-70	
2007612	23 June	9 July	Current moorings in the Barents Sea. Oceanographic sections.	Barents Sea	596	644	142	150	71-73	
2007613	10 July	4 Aug	Svalbard coast. BASSEX, Yermak Plateau. DAMOCLES-BASSEX.	Barents Sea, Svalbard	645	829	-	-	74	
2007614	5 Aug	18 Aug	Petrobar. Utlegging av OBS near Bjørnøya.	Barents Sea	-	-	-	-	75	No CTD data
2007615	20 Aug	1 Sep	Svalex.	Svalbard	-	-	-	-	76	
2007616	2 Sep	4 Sep	Search for lost CTD.	Svalbard	-	-	-	-	-	
2007617	5 Sep	17 Sep	Educational cruise AGF214.	Svalbard	830	1108	-	-	77	
2007618	19 Sep	8 Oct	IPY/CARE Greenland. Recovery of rig near Jan Mayen.	Iceland/ Greenland Sea	1109	1224	-	-	77	

### 1.3 Håkon Mosby (cont.)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD ST		TRAWL ST		PAGE OF CHART	COMMENT
	Start	End			Start	End	Start	End		
2007619	9 Oct	15 Oct	MAR2 230 Fishery ecology.	North Sea	1225	1249	151	157	78	
2007620	17 Oct	22 Oct	Damocles/IPY, Surveillance of the Gulf Stream in the Svinøy section.	Norwegian Sea	1250	1251	-	-	79	
2007621	27 Oct	29 Oct	Geotekn 2007	Western Norway	-	-	-	-	80	
2007622	1 Nov	4 Nov	MAR310 Marine biological felt methods.	Western Norway	1252	1260	158	200	80-81	
2007623	7 Nov	16 Dec	Ecosystem survey.	Norwegian coast	1261	1410	201	304	82-84	
2007624	10 Dec	16 Dec	Swathseis.	Western Norway	-	-	-	-	-	

### 1.4 Jan Mayen (Ship no 19)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD ST		TRAWL ST		PAGE OF CHART	COMMENT
	Start	End			Start	End	Start	End		
2007701	31 July	18 Aug	IPY-NESSAR.	Barents Sea	190	329	11	39	85-87	Stations no 243 and 253 are missing.
2007702	10 Sep	27 Sep	Ecosystem survey Barents Sea.	The sea around Svalbard, Greenland Sea, Barents Sea, Arctic Ocean	330	359	40	167	88-89	
2007703	23 Oct	24 Nov	Ecosystem survey, the Norwegian coast.		360	444	168	314	90-91	



1.5 G.M. Dannevig (Ship no 16)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2007301	9 Jan	11 Jan	Collection of cod.	Eastern coast of Norway	-	-	-	Cancelled
2007302	12 Jan	15 Jan	Long-term environmental monitoring in the fjords along the Norwegian Skagerrak coast.	Norwegian coast of Skagerrak	1	13	93	
2007303	16 Jan	17 Jan	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	14	25	92	
2007304	5 Feb	6 Feb	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	26	37	92	
2007305	7 Feb	9 Feb	Long-term environmental monitoring in the fjords along the Norwegian Skagerrak coast.	Norwegian coast of Skagerrak	38	50	94	
2007306	11 Feb	12 Feb	Deployment of acoustic Doppler meters.	Tvedestrandsfjorden	51	62	95	
2007307	13 Feb	14 Feb	Shrimptrawl calibration (G.M.Dannevig and Håkon Mosby). Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	63	63	96	
2007308	15 Feb	4 Mar	Cod BioBank, collection of parent cod/genetic samples. Long-term environmental monitoring on a nearshore station outside Arendal.	Norwegian coast of Skagerrak and coast of Western Norway	64	68	97	
2007309	19 Mar	24 Mar	Habitat mapping (spawning grounds). Long-term environmental monitoring on a nearshore station outside Arendal.	Norwegian coast of Skagerrak, Grimstad-Kristiansand	69	84	98	
2007310	25 Mar	26 Mar	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	85	96	92	
2007311	27 Mar	29 Mar	Long-term environmental monitoring in the fjords along the Norwegian Skagerrak coast.	Norwegian coast of Skagerrak	97	109	99	
2007312	14 Apr	3 May	Long-term environmental monitoring on a nearshore station outside Arendal and environmental investigation in the eastern North Sea, the Skagerrak and Cattegat after the spring bloom. Retrieving of acoustic Doppler meters.	Eastern North Sea/ Skagerrak/ Cattegat	110	237	100	

G.M. Dannevig (cont.)

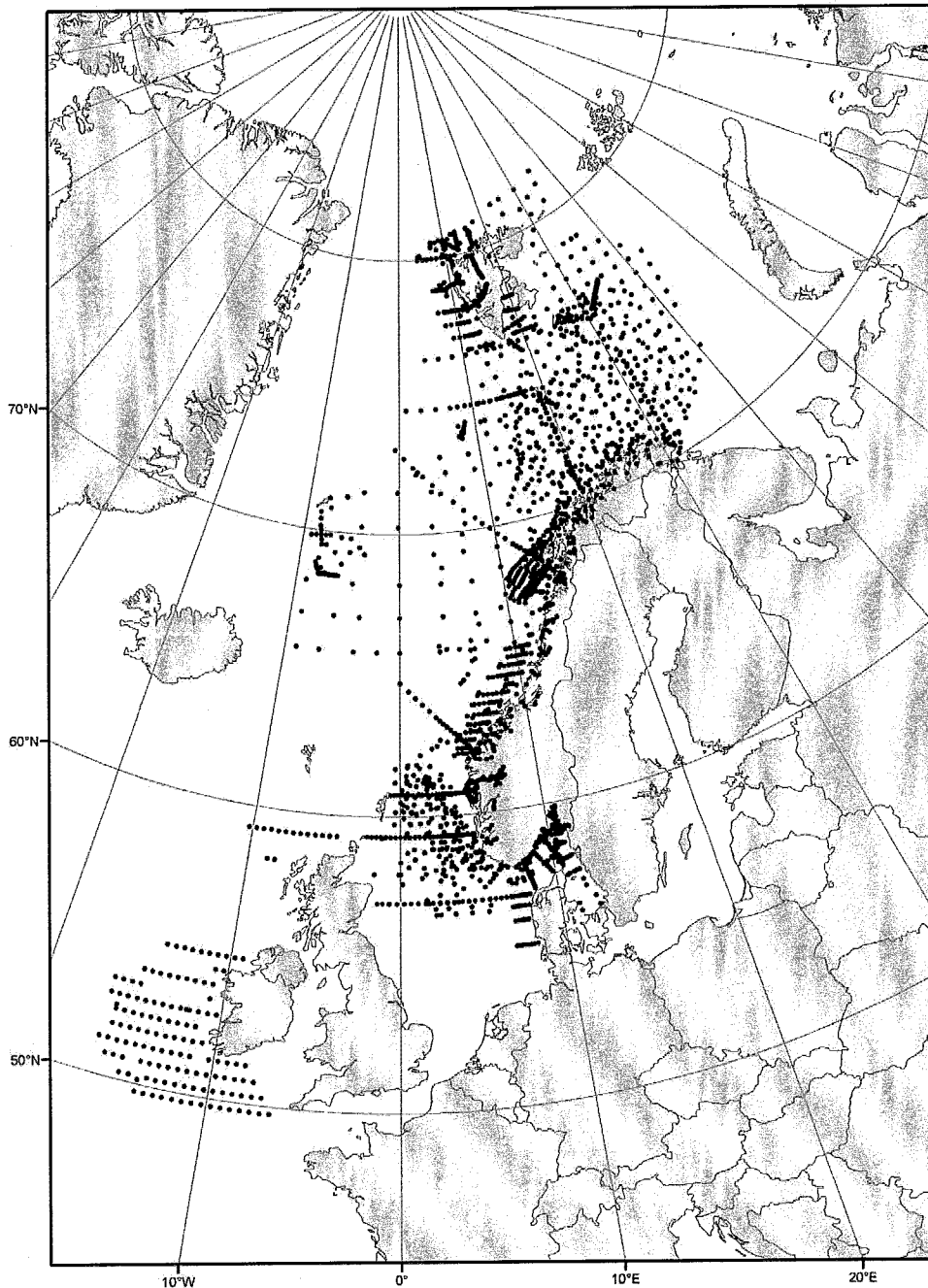
CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2007313	4 May	4 May	Retrieving of acoustic Doppler meters.	Tvedestrandsfjorden	-	-	-	Cancelled
2007314	5 May	9 May	Studies of distribution of salmon lice in Hardangerfjorden.	Hardangerfjorden			101	STD, no standard CTD
2007315	8 May	14 June	Studies of distribution of salmon lice in Hardangerfjorden.	Hardangerfjorden			102	STD, no standard CTD
2007316	18 June	19 June	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	238	249	92	
2007317	20 June	22 June	Beach seine studies.	Norwegian coast of Skagerrak	250	250	103	
2007318	23 June	30 June	Long-term environmental monitoring in the fjords along the Norwegian Skagerrak coast. Lobster data tags.	Norwegian coast of Skagerrak	251	264	104	
2007319	1 July	2 July	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	265	276	92	
2007329	8 Aug	17 Aug	Dock. Long-term environmental monitoring on a nearshore station outside Arendal.	Hirtshals	277	277		One CTD-station occupied during transfer for docking.
2007320	18 Aug	19 Aug	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	278	289	92	
2007321	20 Aug	30 Aug	Monitoring lobster/MPA. Habitate mapping. Long-term environmental monitoring in the fjords along the Norwegian coast.	Norwegian coast of Skagerrak	290	304	105	
2007322	13 Sep	14 Sep	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	305	316	92	
2007323	15 Sep	04 Sep	Beach seine studies. Long-term environmental monitoring on a nearshore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.	Skagerrak, Norwegian coast of Skagerrak	317	374	106	

G.M. Dannevig (cont.)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2007324	04 Sep	05 Sep	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	375	386	92	
2007325	03 Nov	04 Nov	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	-	-	-	Cancelled
2007326/ 327	03 Nov	03 Dec	Contaminants in seafood - Grenland. Fish community studies in marine protected area and resource studies in coastel cod. Long-term environmental monitoring on a nearshore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.	Skagerrak, Norwegian coast of Skagerrak	387	413	106	
2007328	04 Dec	05 Dec	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	414	425	92	

## 2 Charts – overview

### 2.1 CTD stations 2007



#### • CTD stations

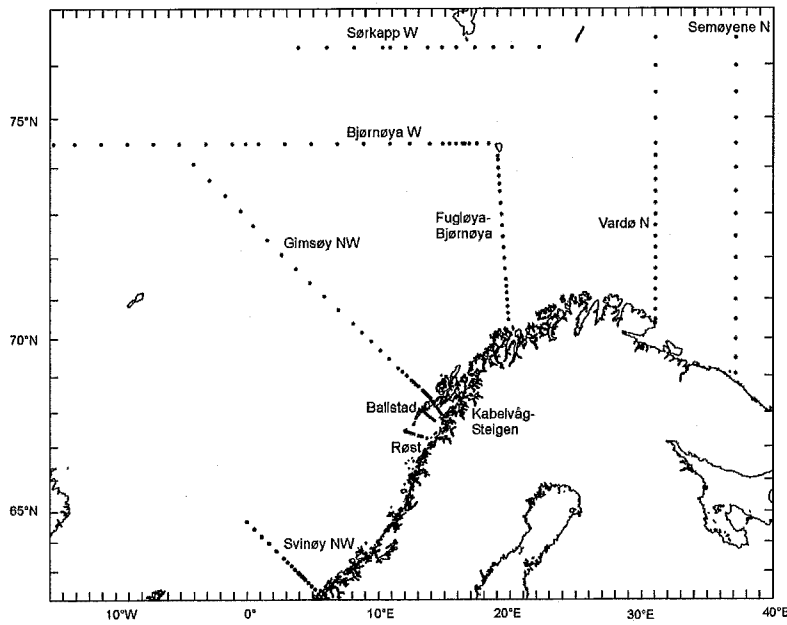
##### Ship:

Johan Hjort	1.053
Håkon Mosby	1.410
G.O. Sars	470
Jan Mayen	253
G.M. Dannevig	425

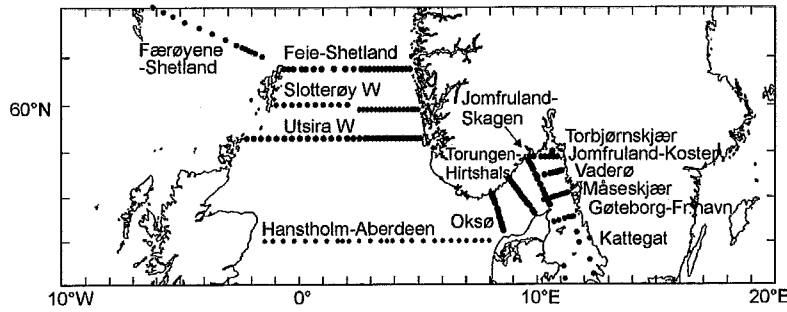
**3.611**

Including 8 st. from cruise no. 2007113, not shown on this chart (see page. 32)

## 2.2 Oceanographic sections

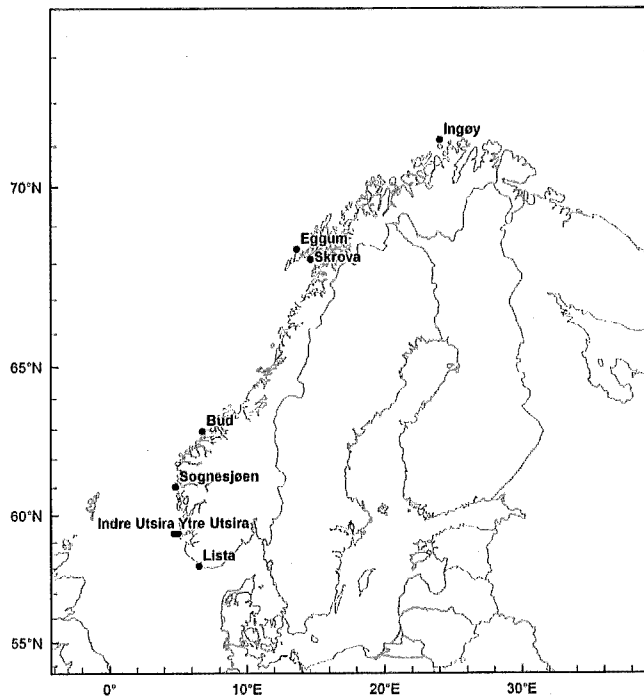


Norwegian Sea and Barents Sea



North Sea, Skagerrak and Kattegat

## 2.3 Fixed oceanographic stations



### 3 Tables - Observations in 2007

#### 3.1 Standard oceanographic sections 2007 (Cruise no/ship)

Area	Standard sections	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
North Sea, Skagerrak	Fedje-Shetland	2007602HM			2007205JH			2007208JH			2007619HM		2007623HM	
	Slottøy-West													
	Utsira-West	2007602HM			2007205JH			2007208JH						
	Jærens Rev-SW and W				2007205JH									
	Egerøya-SW													
	Lista-SW				2007205JH									
	Lindesnes-SSW													
	Hansholm-Aberdeen		2007603HM		2007205JH		2007208JH							
	Okseøy-Hansholm		2007603HM					2007208JH						
	Torungen-Hirtshals	2007303GMD	2007304GMD	2007310GMD	2007312GMD	2007312GMD	2007312GMD	2007316GMD	2007319GMD	2007320GMD	2007322GMD	2007324GMD		2007328GMD
	Jomfruland-Skagen													
	Jomfruland-Koster													
	Torbjørnskjær													
Våderø														
Måseskjær														
Gøteborg-Fredrikshavn														
Kattegat														



### 3.3 Fixed oceanographic stations 2007

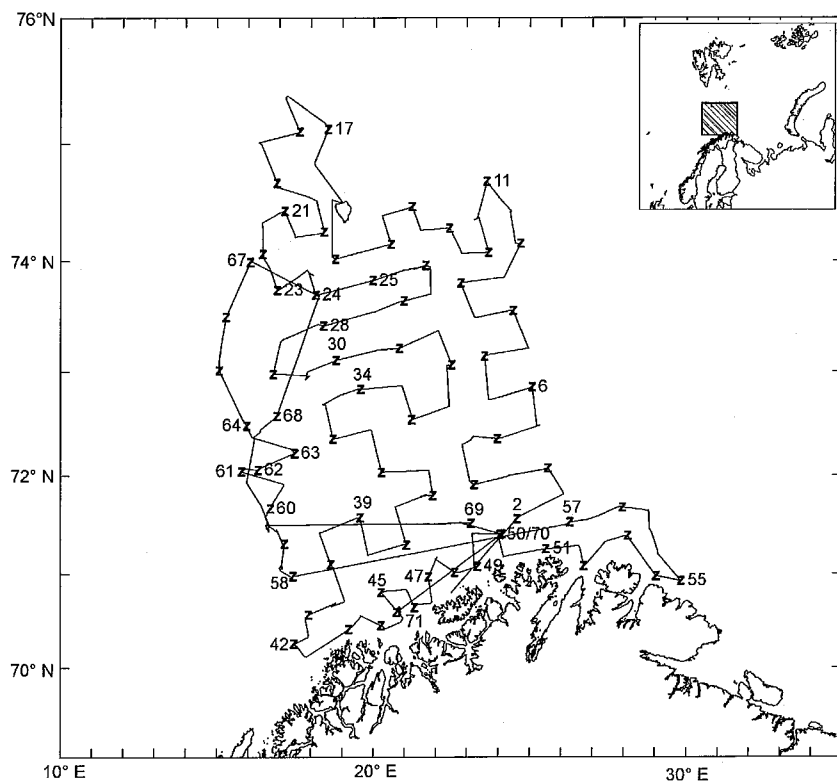
(No of observations)

Fixed stations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>LISTA</b> N58° 05,1' E06° 32,5'	2	2	4	2	4	3	2	3	4	3	3	3	35
<b>UTSIRA Y</b> N59° 19' E04° 44'	1	2	0	1	3	3	2	3	1	2	2	2	22
<b>UTSIRA I</b> N59° 19' E04° 59'	1	2	0	1	3	3	2	3	1	2	1	2	21
<b>SOGNESJØEN</b> N61° 01' E04° 50'	1	2	2	3	2	3	2	3	3	2	2	2	27
<b>BUD</b> N62° 56' E06° 47'	0	2	2	0	1	1	2	2	1	1	1	1	14
<b>SKROVA</b> N68° 07' E14° 39'	4	1	2	5	4	4	5	4	4	4	5	4	46
<b>EGGUM</b> N68° 23' E13° 38'	3	3	3	3	3	3	3	3	3	2	2	3	34
<b>INGØY</b> N71° 08' E24° 01'	3	4	2	3	3	3	3	3	3	4	3	2	36

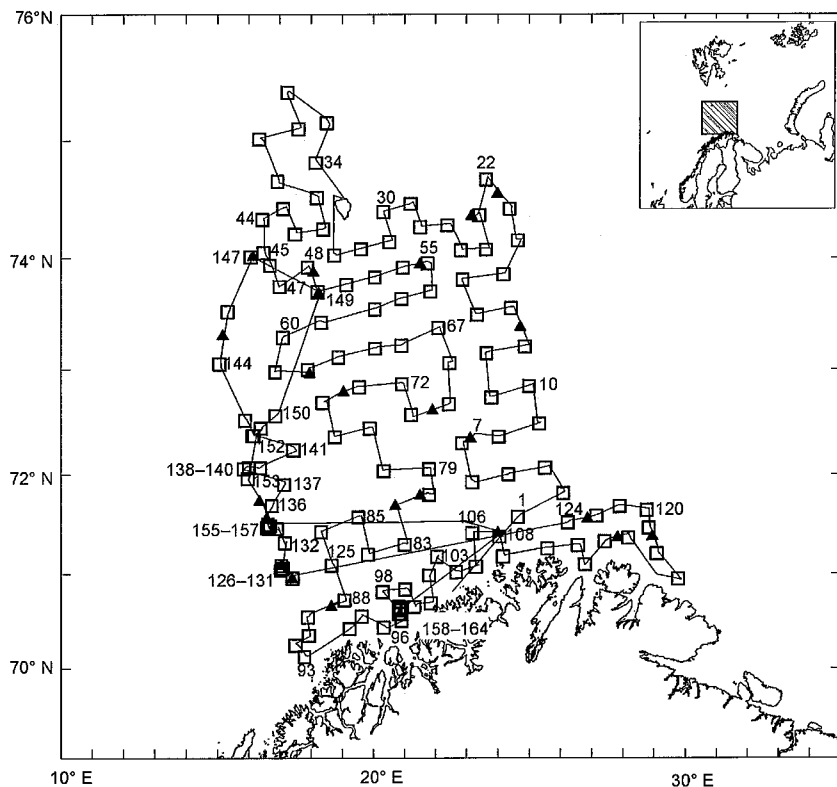


## 4 Charts for cruises 2007

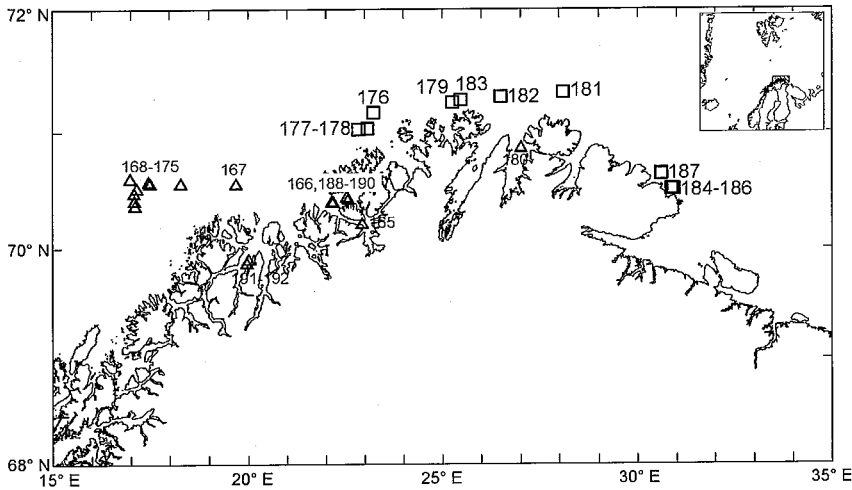
### 4.1 G.O. Sars



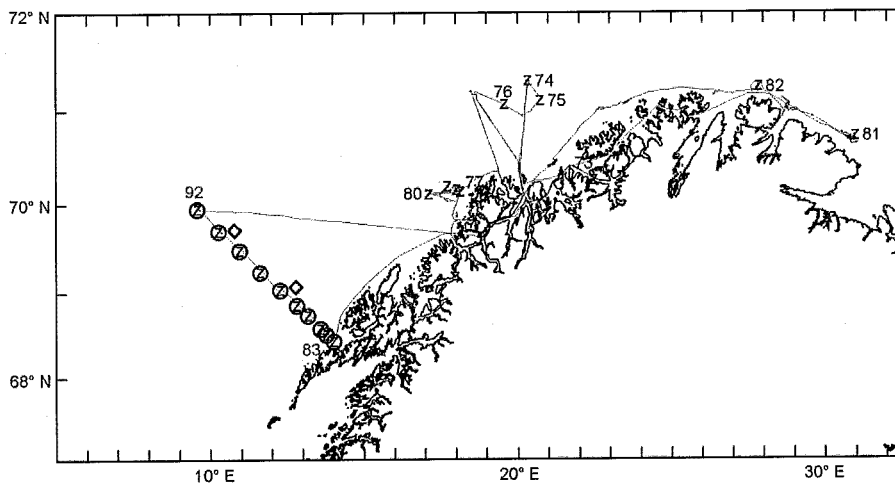
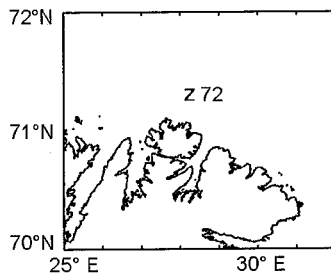
Cruise no 2007103  
 "G.O. Sars"  
 12 Feb–14 Mar 2007  
 z CTD st.no 1–71  
 (st.no 1: 60°24'N 05°18'E)



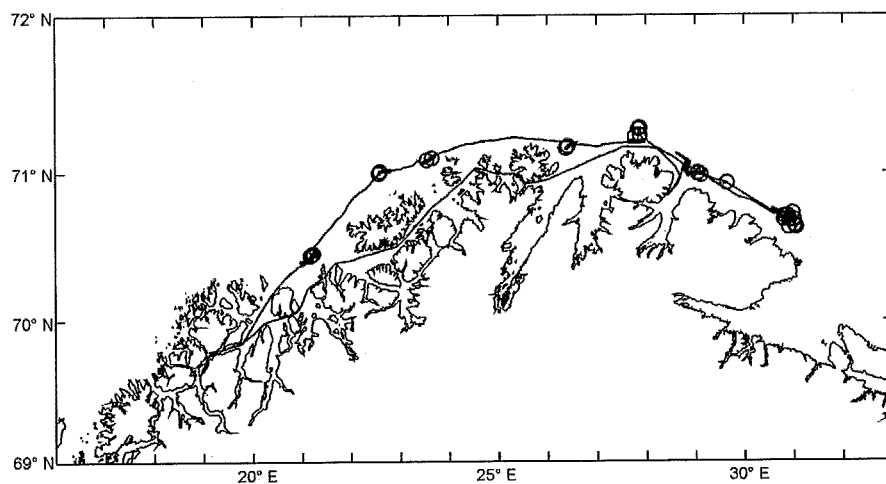
Cruise no 2007103  
 "G.O. Sars"  
 12 Feb–14 Mar 2007  
 Trawl st. no 1–164  
 □ Bottom trawl  
 ▲ Pelagic trawl



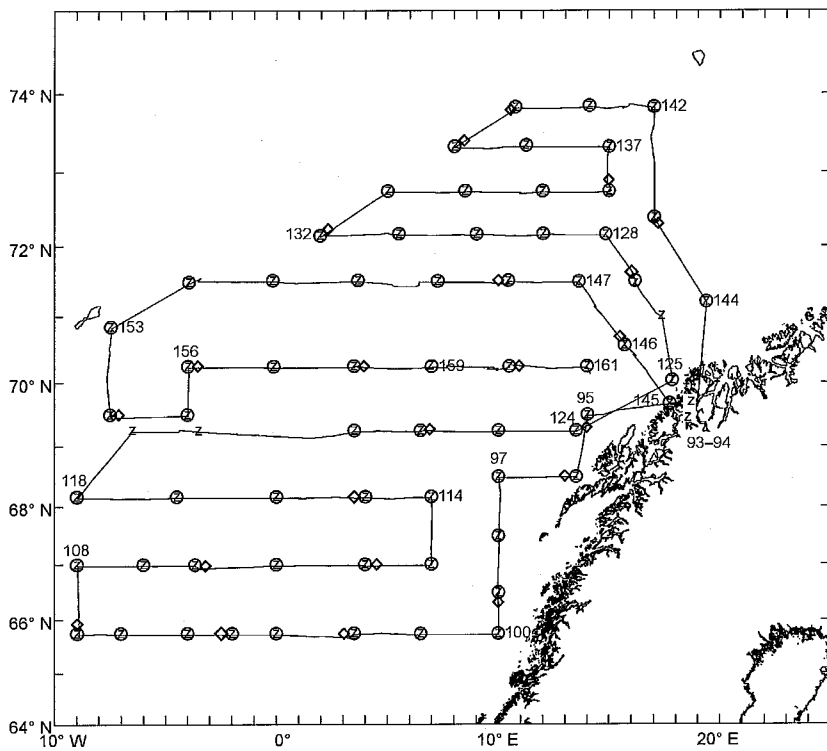
Cruise no 2007104  
 "G.O. Sars"  
 15-28 Mar 2007  
 z CTD st.no 72  
 □ Bottom trawl  
 △ Pelagic trawl  
 Trawl st.no 165-192



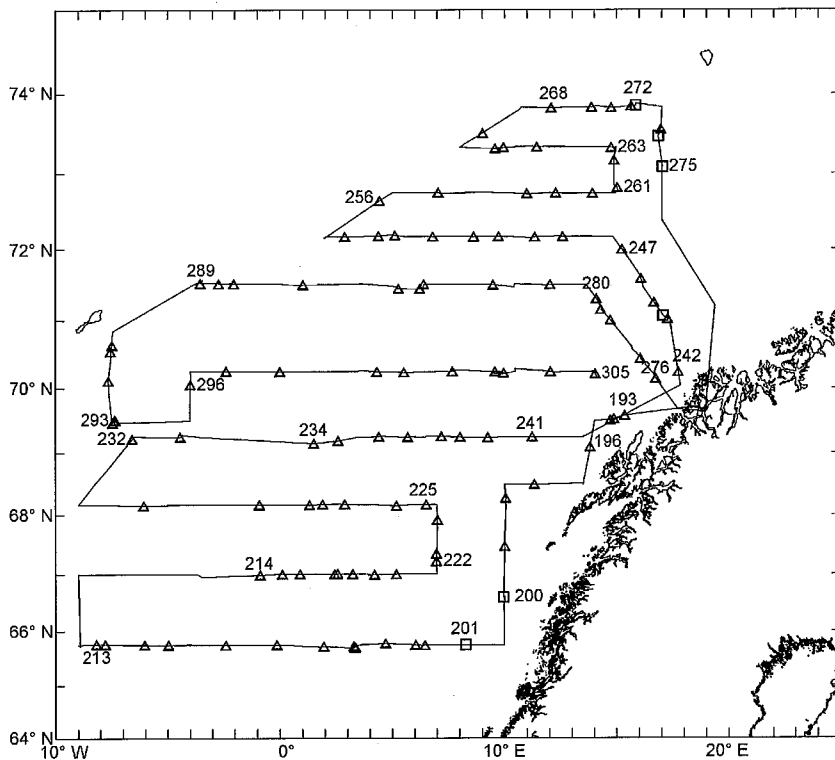
Cruise no 2007105  
 "G.O. Sars"  
 30 Mar-21 Apr 2007  
 z CTD st.no 73-92  
 ○ Plankton st. (WP-II-net)  
 ◇ Plankton st. (Mocness)  
 Standard section:  
 Gimsøy-NW st.no 83-92



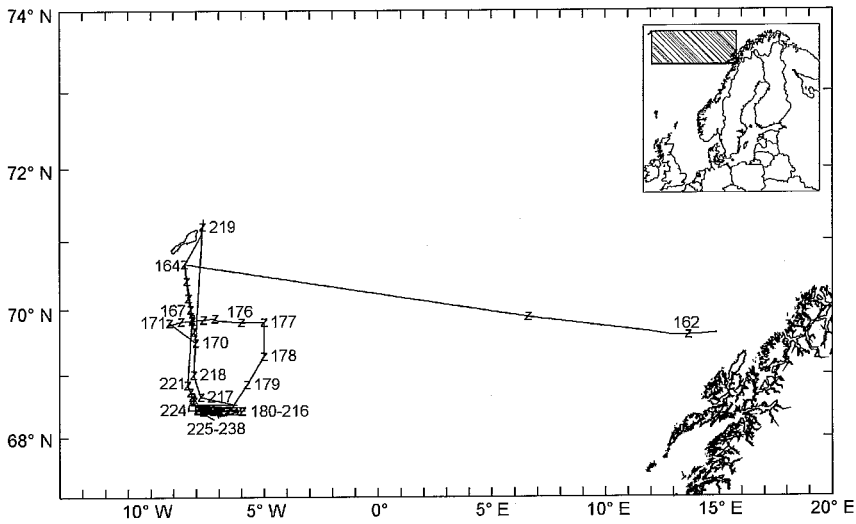
Cruise no 2007105  
 "G.O. Sars"  
 30 Mar-21 Apr 2007  
 ○ Video stations



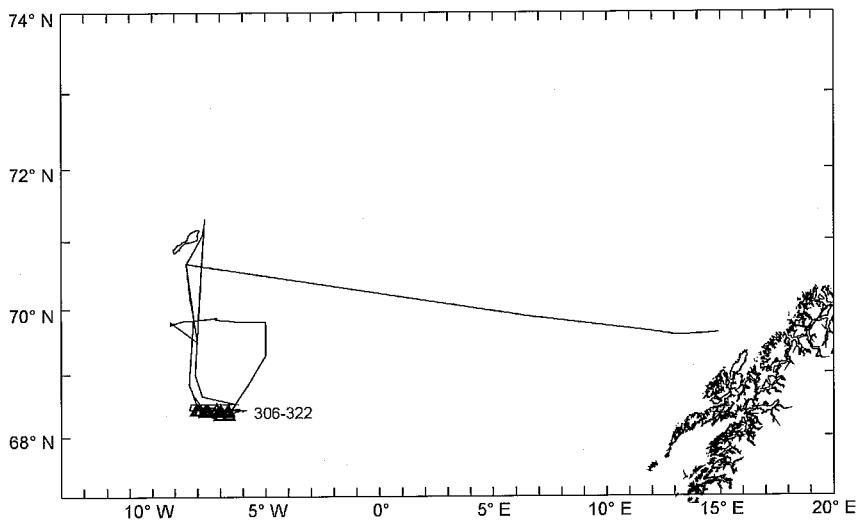
Cruise no 2007106  
 "G.O. Sars"  
 25 Apr-1 June 2007  
 z CTD st.no 93-161  
 ○ Plankton st. (WP-II-net)  
 ◇ Plankton st. (Mocness)



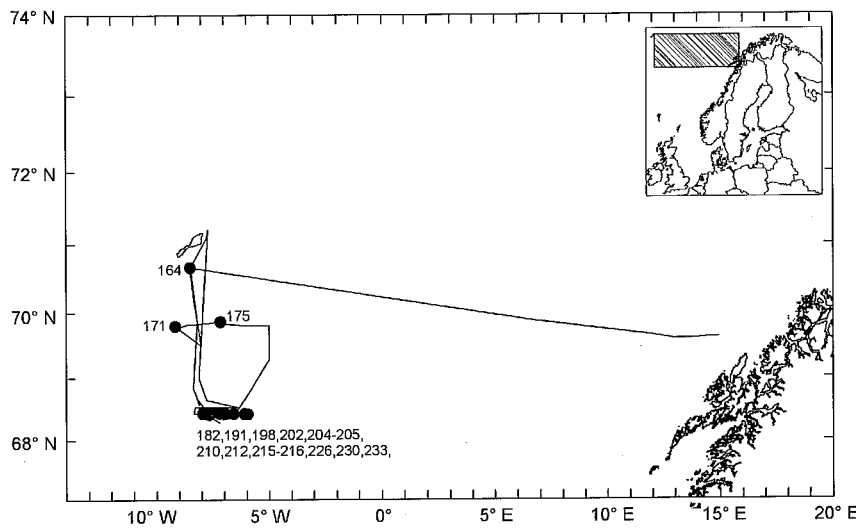
Cruise no 2007106  
 "G.O. Sars"  
 25 Apr-1 June 2007  
 Trawl st.no 193-305  
 □ Pelagic trawl  
 △ Bottom trawl



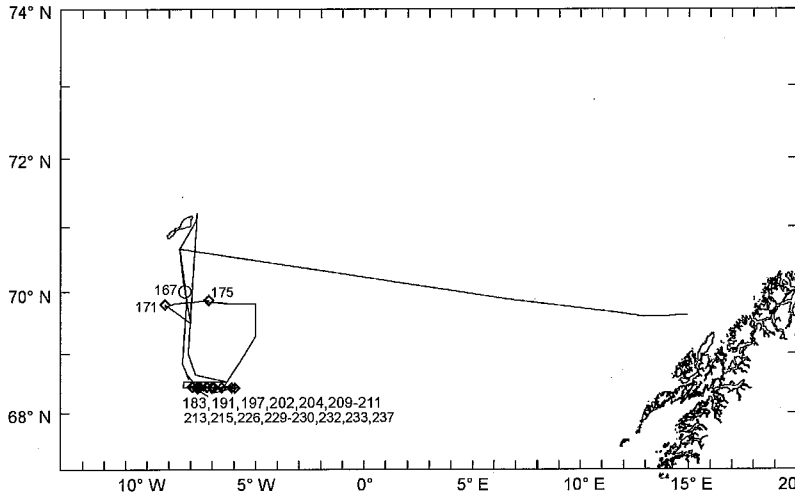
Cruise no 2007107  
 "G. O. Sars"  
 2-21 June 2007  
 z CTD st.no 162-238



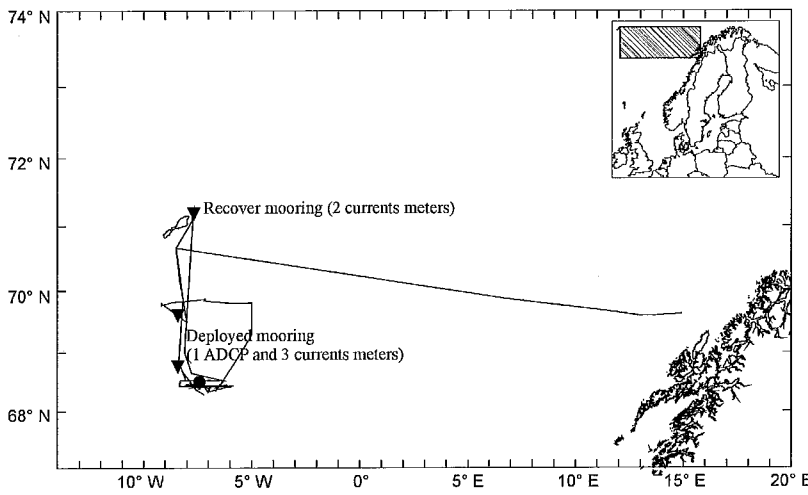
Cruise no 2007107  
 "G. O. Sars"  
 2-21 June 2007  
 st.no 306-322  
 Δ Pelagic trawl



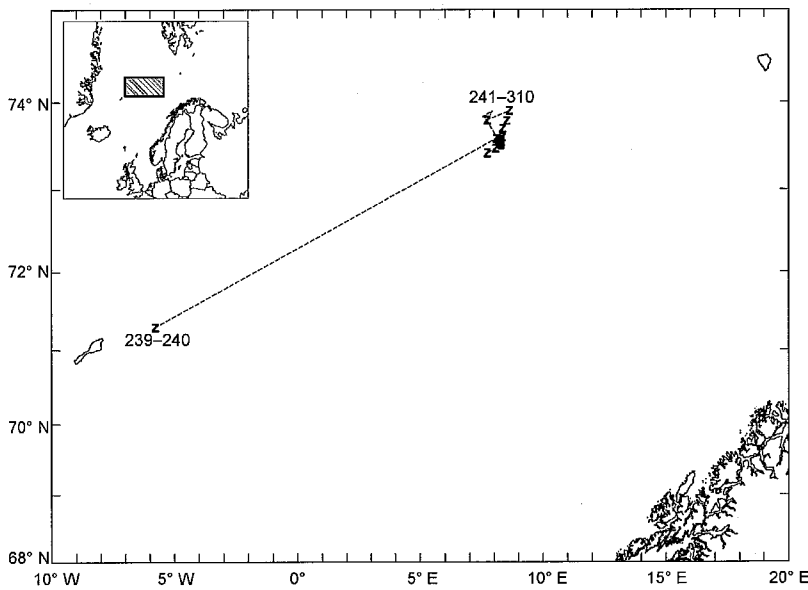
Cruise no 2007107  
 "G. O. Sars"  
 2-21 June 2007  
 ● 16 stations phytoplankton



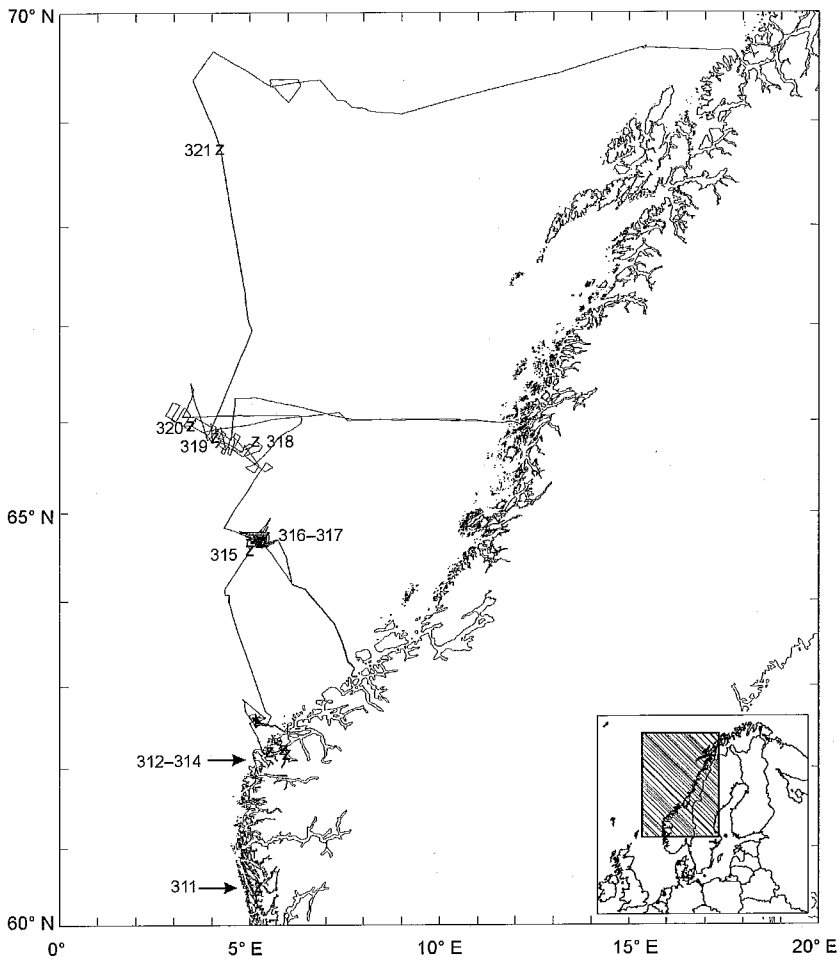
Cruise no 2007107  
 "G.O. Sars"  
 2-21 June 2007  
 ◇ 18 zooplankton stations  
 (Mocness st.)  
 ○ 1 zooplankton station (WP-II-net)



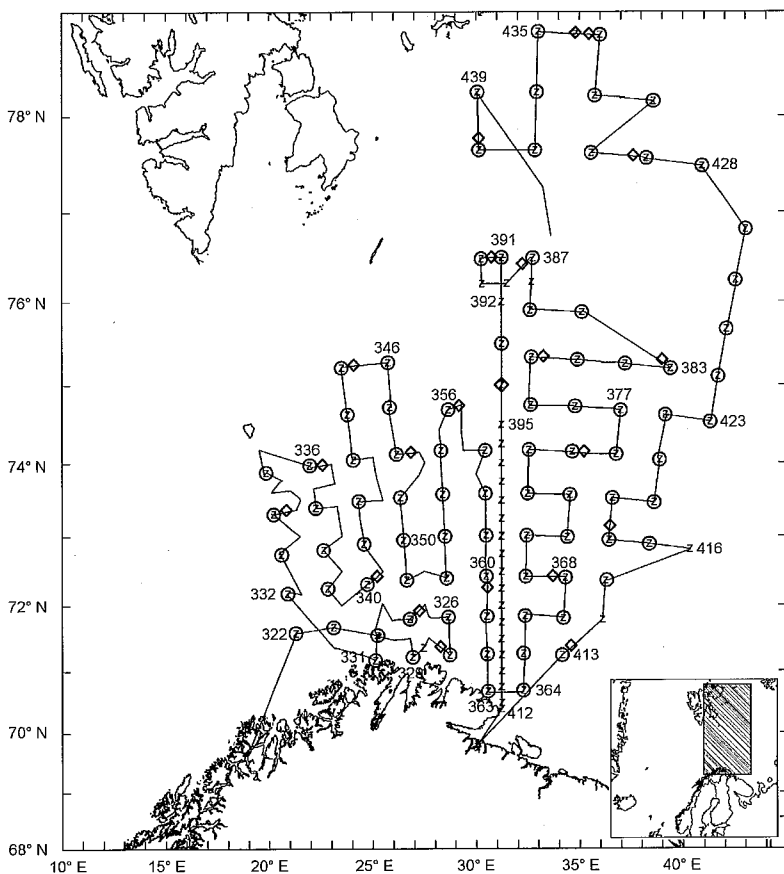
Cruise no 2007107  
 "G.O. Sars"  
 2-21 June 2007  
 ▼ Deployed/ recovered moorings  
 (ADCP and current meters)  
 ● Sea Glider (T, S, Fluor)



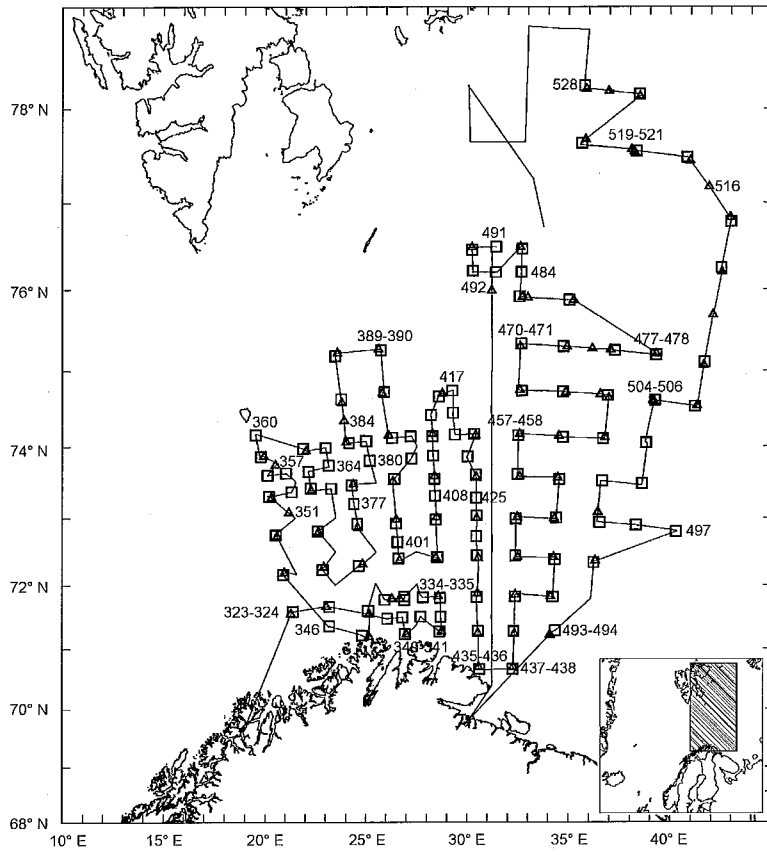
Cruise no 2007108  
 "G.O. Sars"  
 25 June-19 July 2007  
 z CTD st.no 239-310



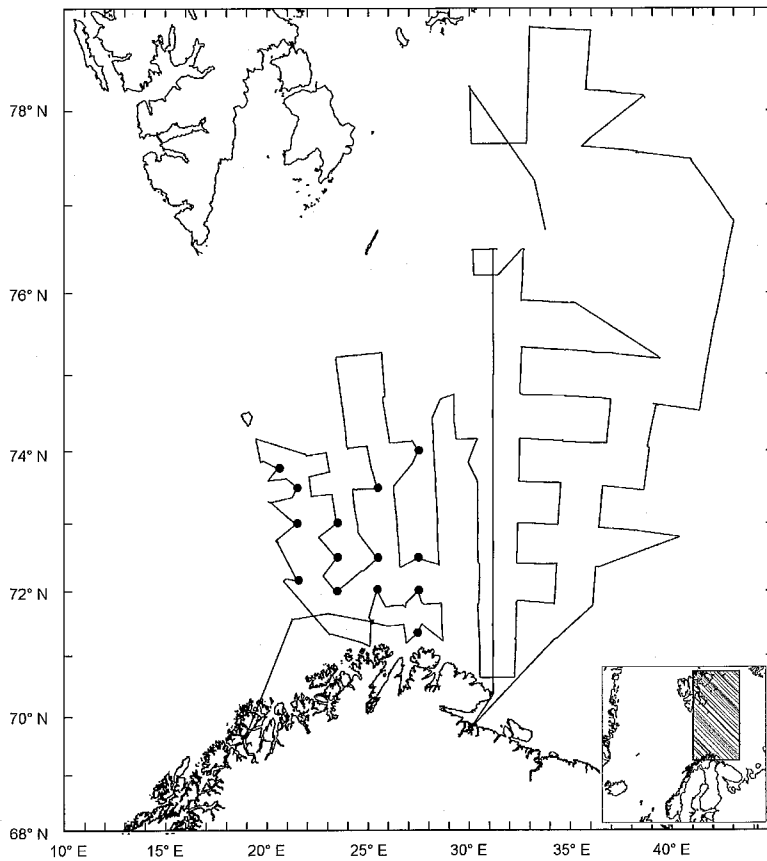
Cruise no 2007109  
 "G. O. Sars"  
 22 July–13 Aug 2007  
 z CTD st.no 311–321



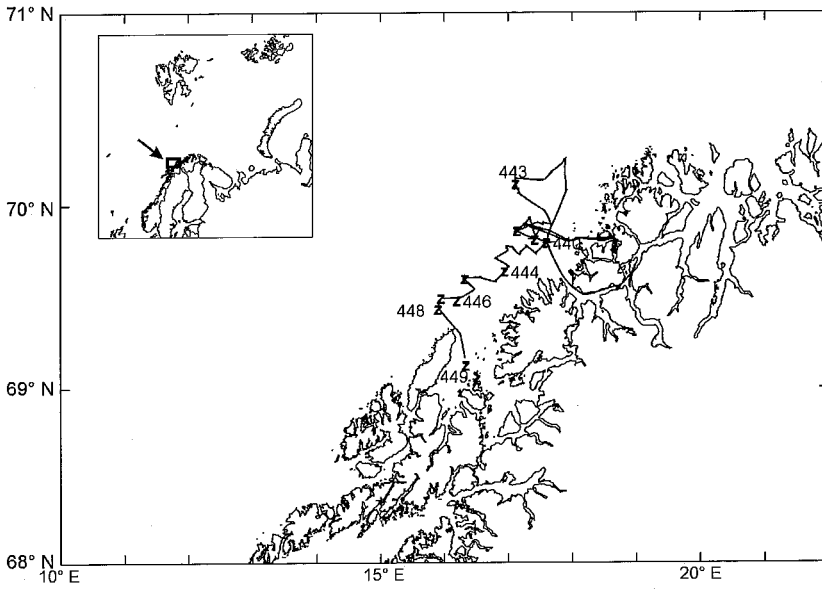
Cruise no 2007110  
 "G.O. Sars"  
 14 Aug–30 Sep 2007  
 z CTD st.no 322–439  
 ○ Plankton st. (WP-II-net)  
 ◇ Plankton st. (Mocness)  
 Standard sections: Vardø-N:  
 st.no 391–412



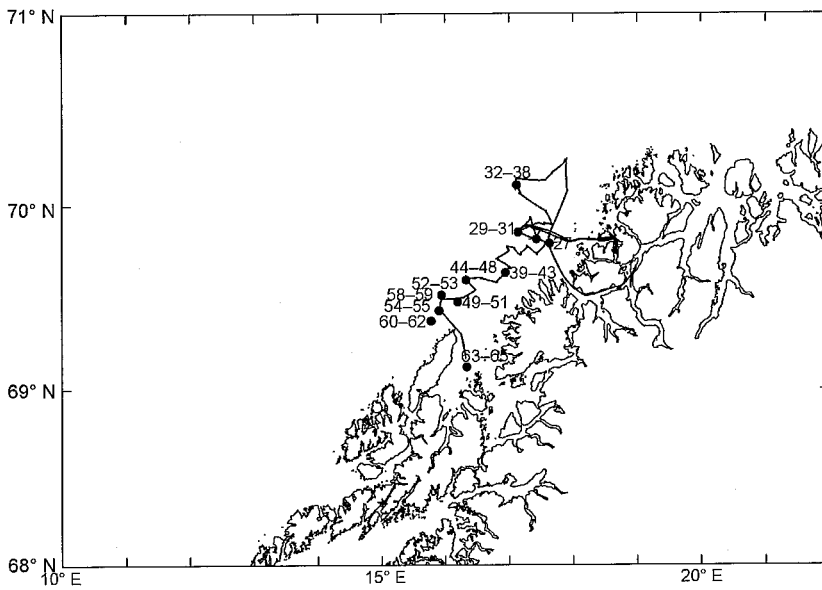
Cruise no 2007110  
 "G.O. Sars"  
 14 Aug-30 Sep 2007  
 Trawl st.no 323-528  
 ▲ Pelagic trawl  
 □ Bottom trawl



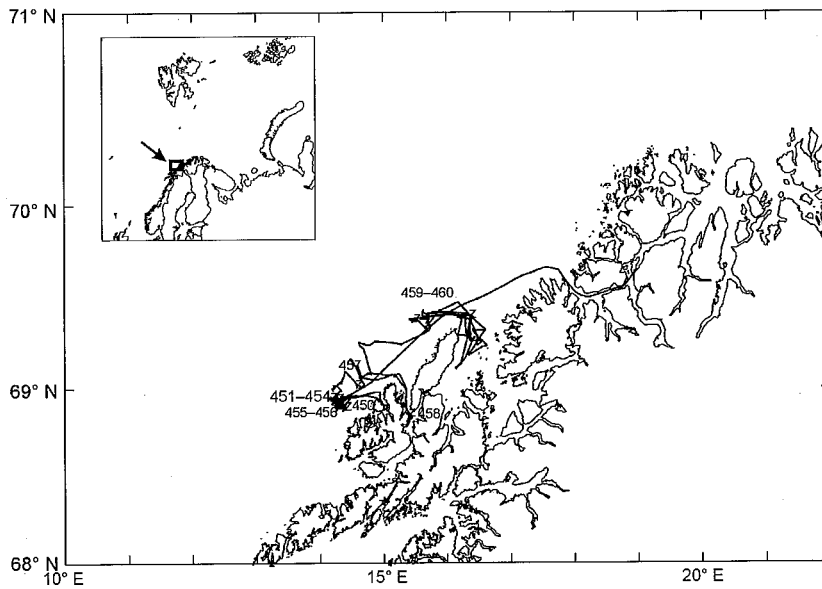
Cruise no 2007110  
 "G.O. Sars"  
 14 Aug-30 Sep 2007  
 ● Grab stations



Cruise no 2007111 Part I  
 "G.O. Sars"  
 1-10 Oct 2007  
 z CTD st.no 440-449

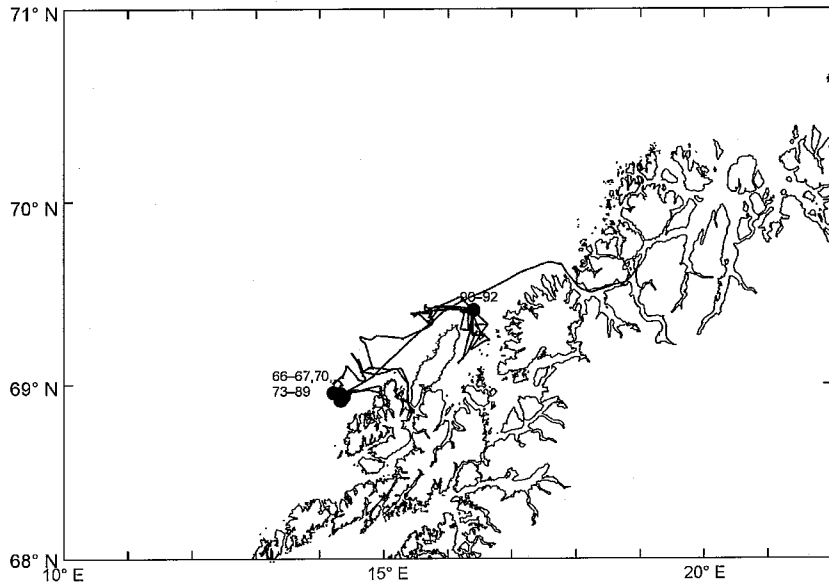


Cruise no 2007111 Part I  
 "G.O. Sars"  
 1-10 Oct 2007  
 ● Grab stations st.no 27-65

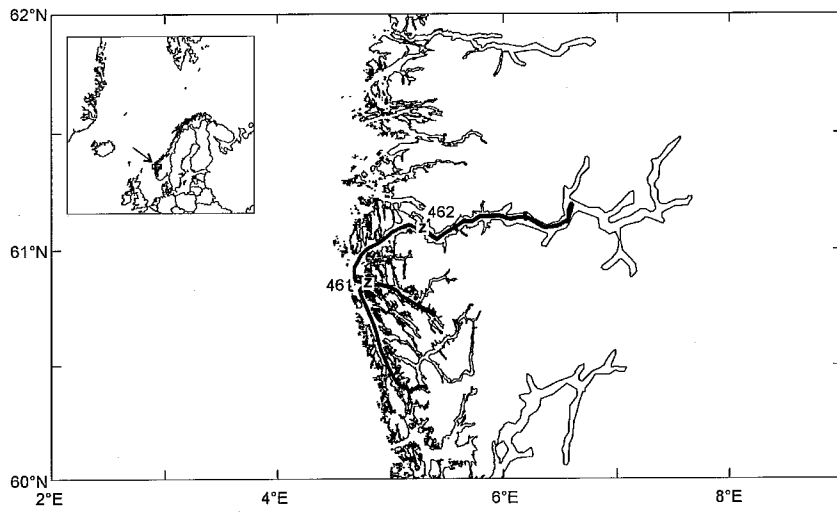


Cruise no 2007111 Part II  
 "G.O. Sars"  
 12-23 Oct 2007  
 z CTD st.no 450-460



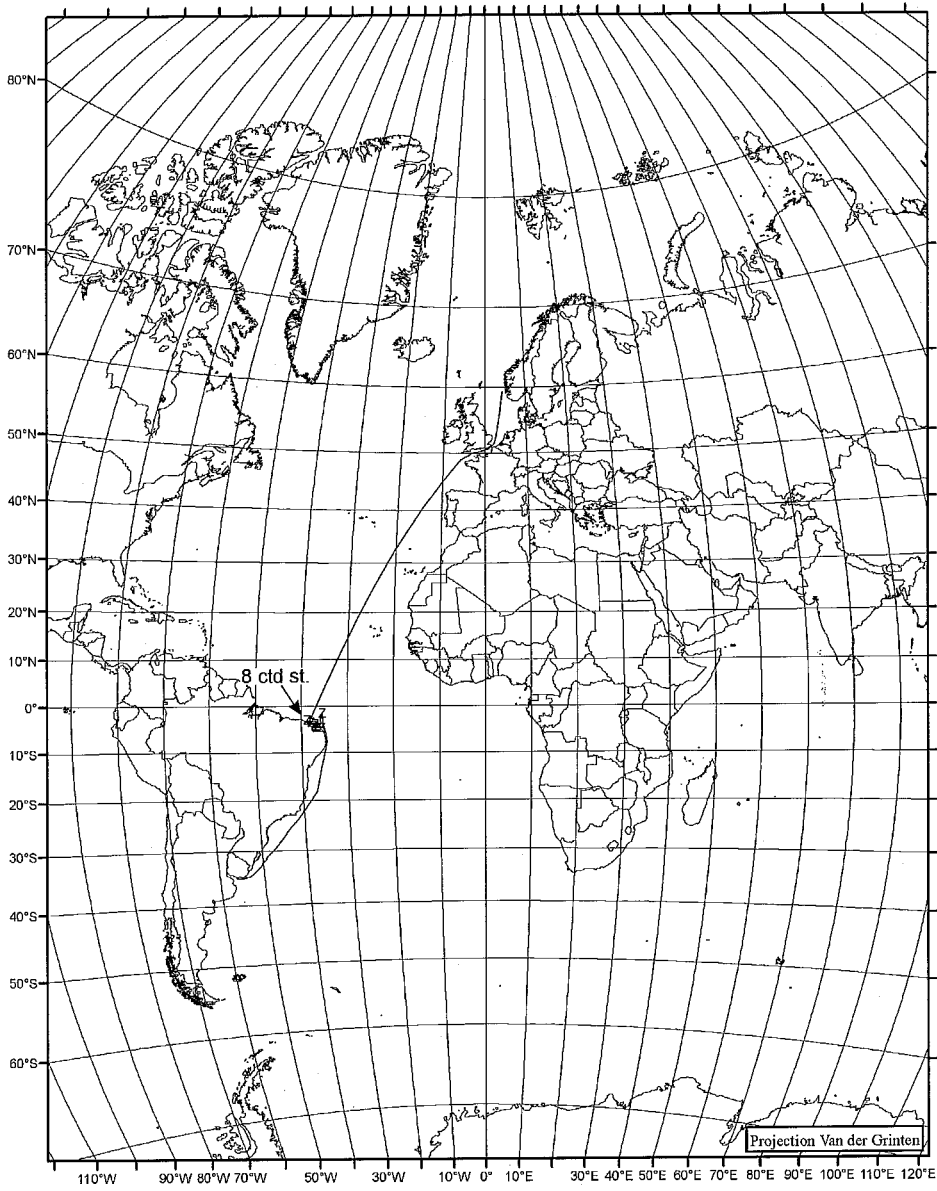


Cruise no 2007111 Part II  
 "G.O. Sars"  
 12-23 Oct 2007  
 ● Grab stations st.no 66-92

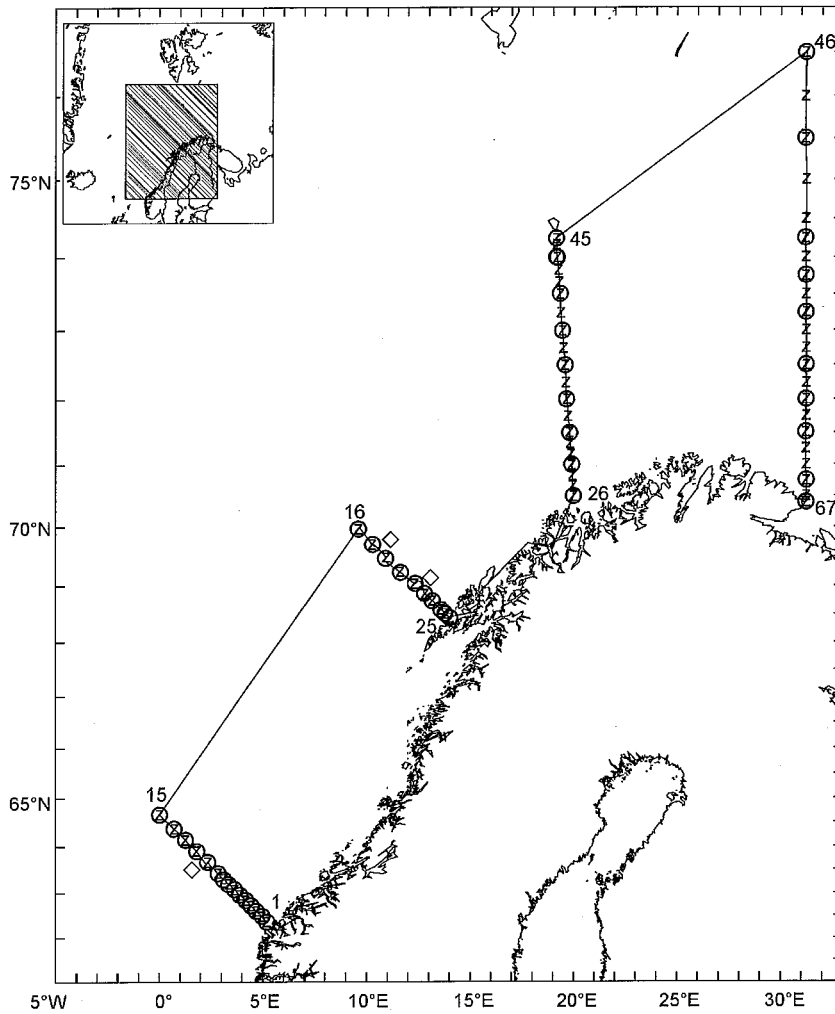


Cruise no 2007112  
 "G.O. Sars"  
 27-29 Oct 2007  
 z CTD st.no 461-462

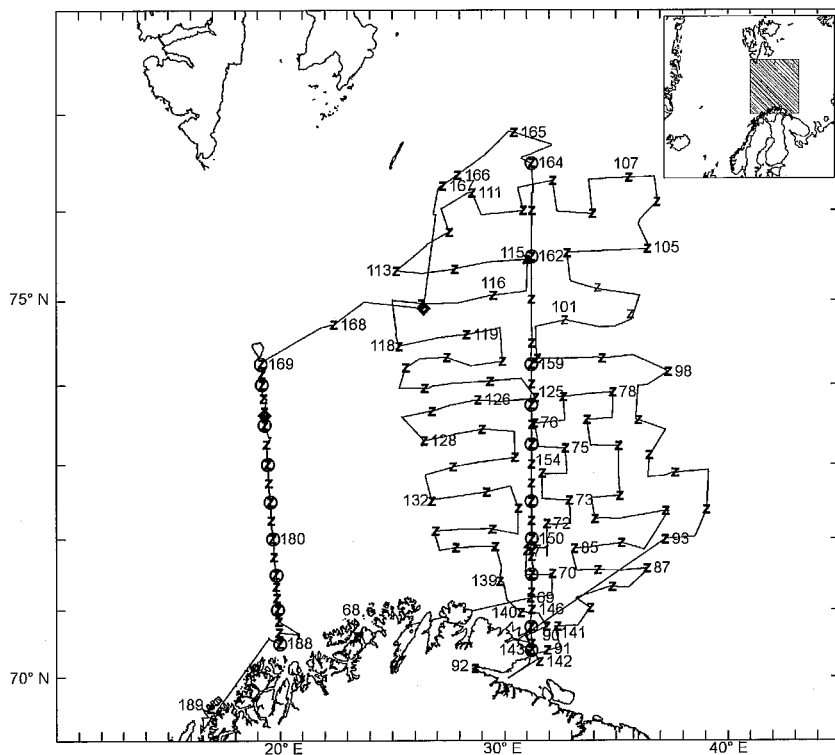
Cruise no 2007113  
"G.O. Sars"  
15 Nov-31 Dec 2007  
z CTD st.no 463-470



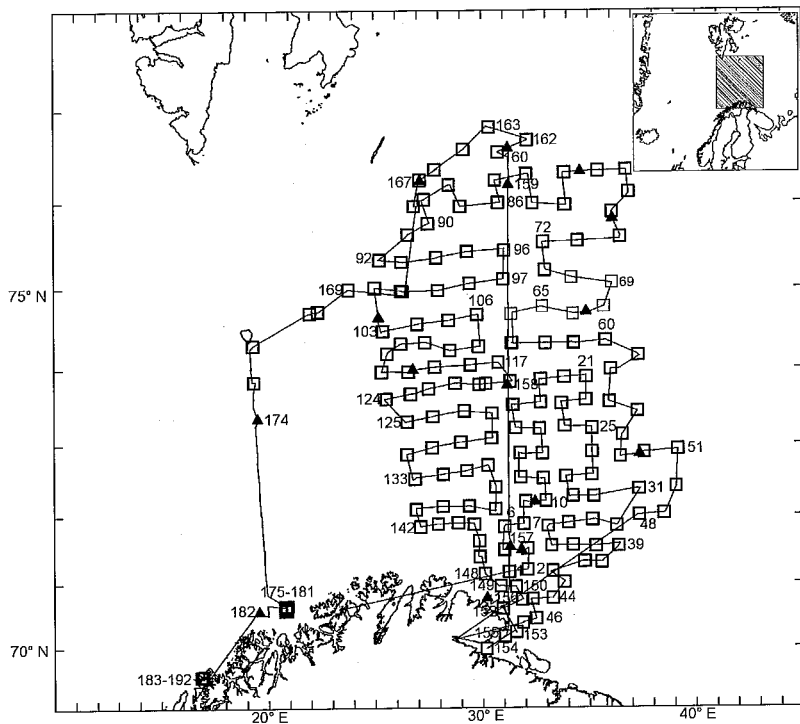
## 4.2 Johan Hjort



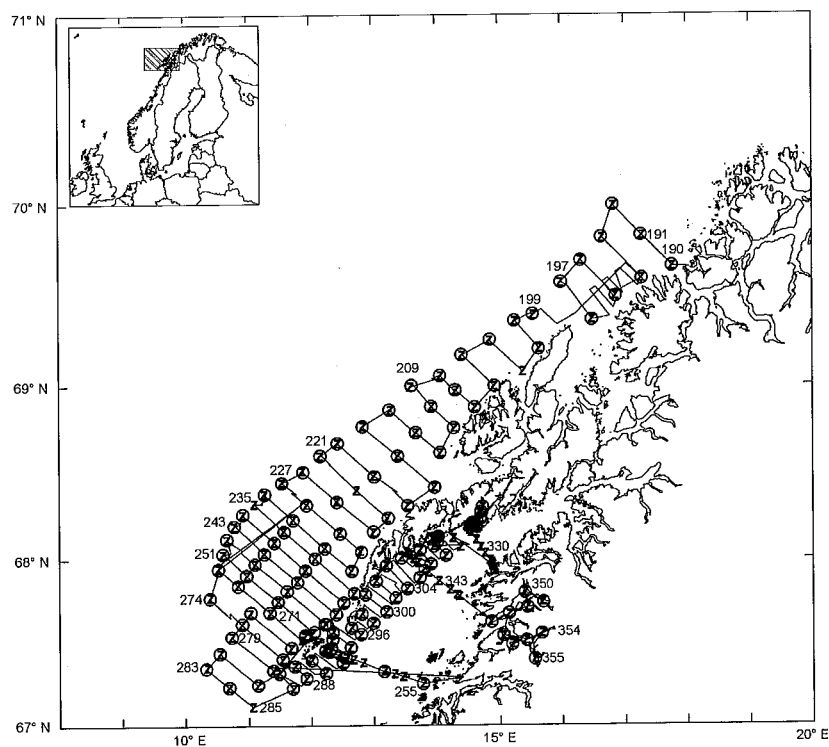
Cruise no 2007202  
 "Johan Hjort"  
 10–29 Jan 2007  
 z CTD st.no 1–67  
 o Plankton st. (WP-II-net)  
 ◇ Plankton st. (Mocness)  
 Standard section:  
 Svinøy-NW st.no 1–15  
 Gimsøy-NW st.no 16–25  
 Fugløya-Bjørnøya  
 st.no 26–45  
 Vardø-N st.no 46–64



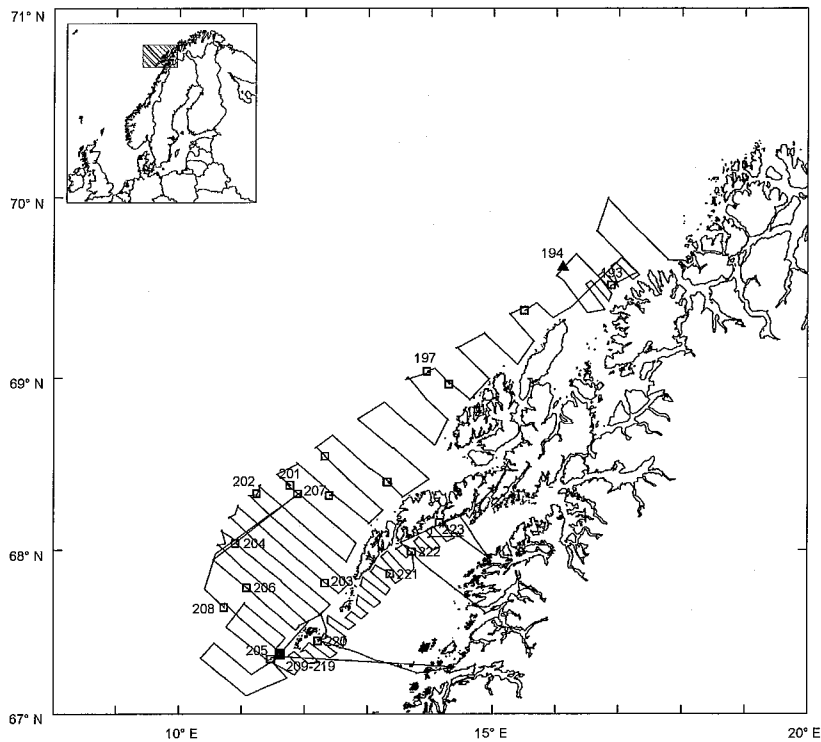
Cruise no 2007203  
 "Johan Hjort"  
 1 Feb–15 Mar 2007  
 z CTD st.no 68–189  
 o Plankton st. (WP-II-net)  
 ◇ Plankton st. (Mocness)  
 Standard sections:  
 Vardø-N st.no 143–164  
 Fugløya-Bjørnøya st.no 169–  
 188



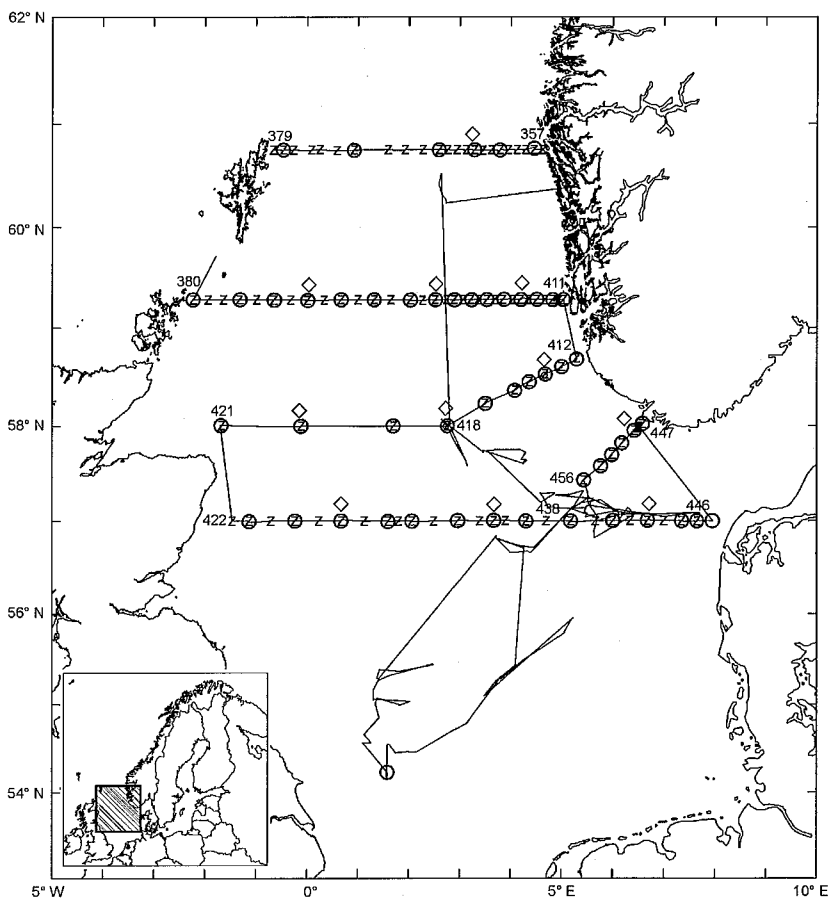
Cruise no 2007203  
 "Johan Hjort"  
 1 Feb–15 Mar 2007  
 Trawl st.no 1–192  
 □ Bottom trawl  
 ▲ Pelagic trawl



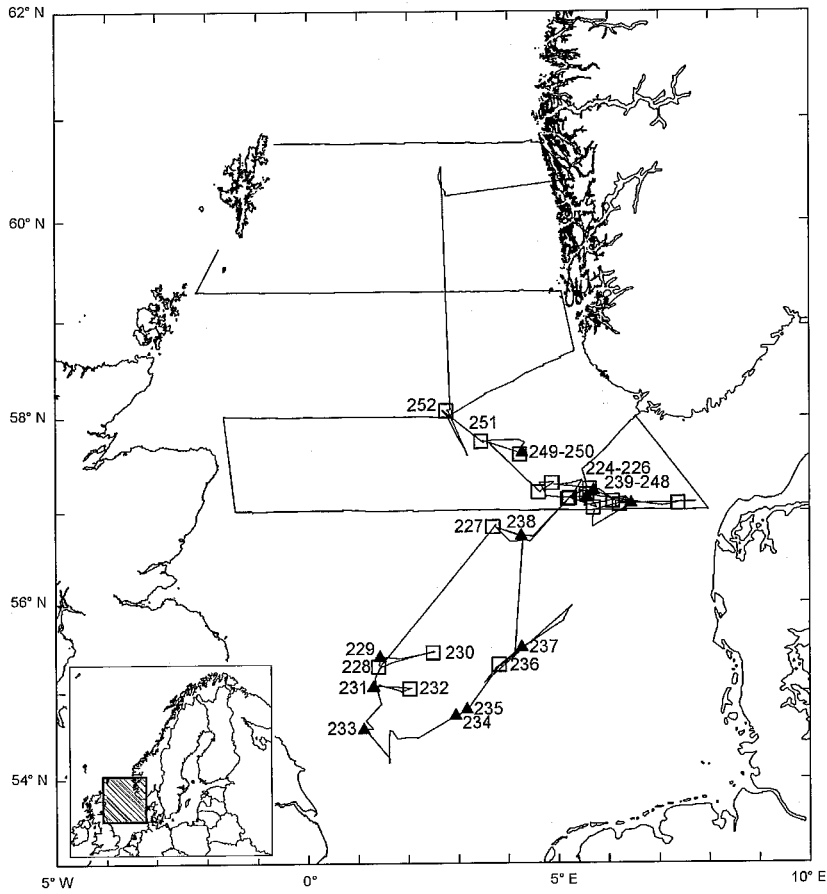
Cruise no 2007204  
 "Johan Hjort"  
 17 Mar–7 Apr 2007  
 z CTD st.no 190–356  
 o Egg survey with vertical net  
 Hydrographic sections:  
 Røst–Tennholmen  
 Ballstad–Måløy/Skarholmen  
 Kabelvåg–Steigen



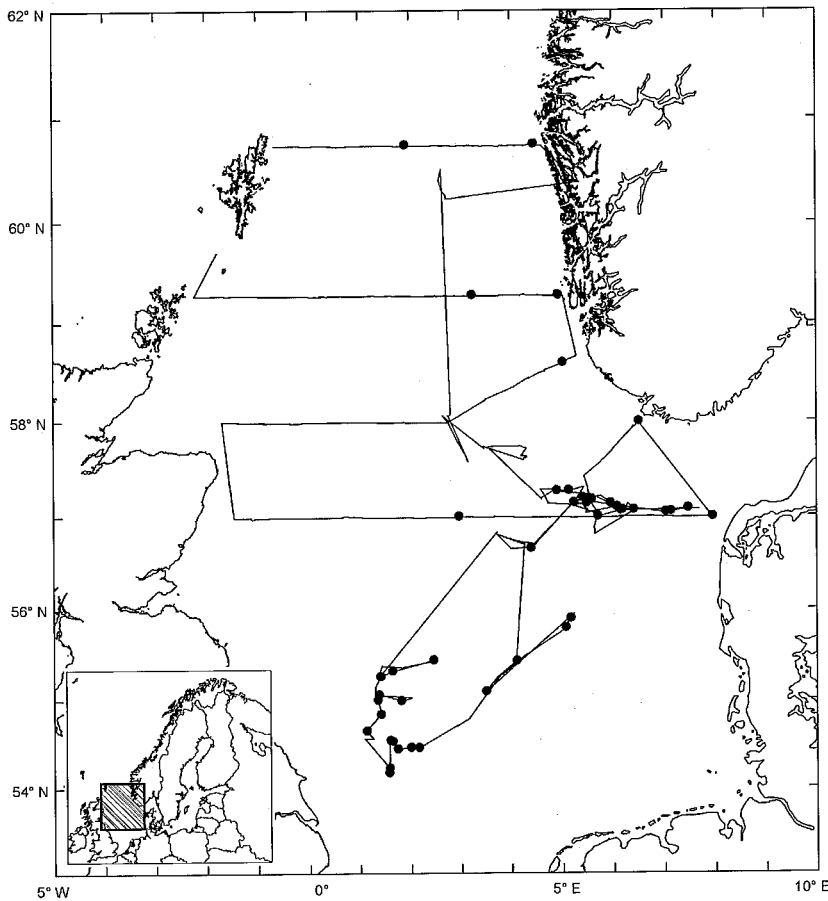
Cruise no 2007204  
 "Johan Hjort"  
 17 Mar–7 Apr 2007  
 Trawl st.no 193–223  
 □ Bottom trawl  
 ▲ Pelagic trawl



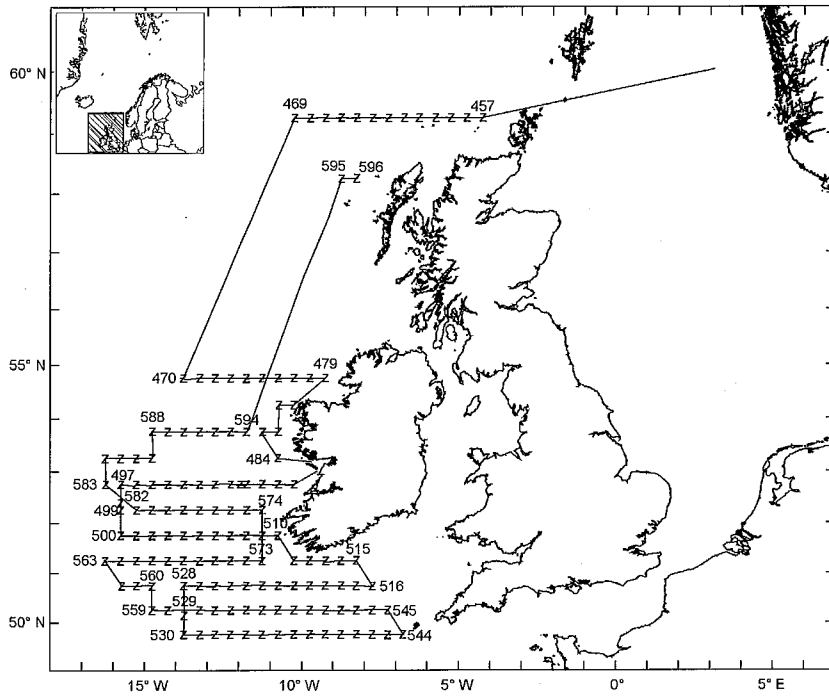
Cruise no 2007205  
 "Johan Hjort"  
 11 Apr–13 May 2007  
 z CTD st.no 357–456  
 o Plankton st. (WP-II-net)  
 Standard sections:  
 Fedje–Shetland  
 st.no 357–379  
 Utsira–W st.no 380–411  
 Hanstholm–Aberdeen  
 st.no 422–446  
 Jærens Rev SW and W  
 st.no 412–421  
 Lista SW st.no 447–456



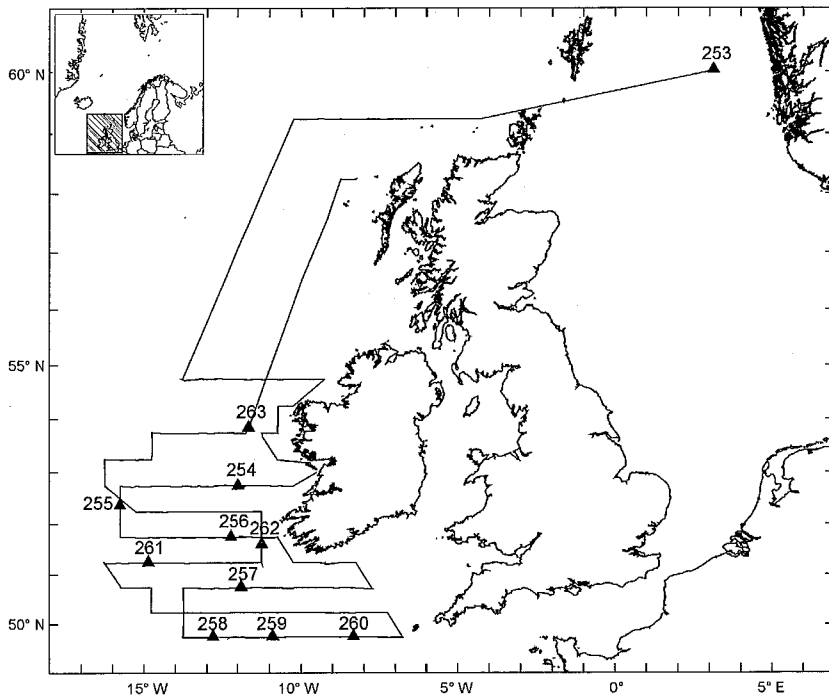
Cruise no 2007205  
 "Johan Hjort"  
 11 Apr-13 May 2007  
 Trawl st.no 224-252  
 □ Bottom trawl  
 ▲ Pelagic trawl



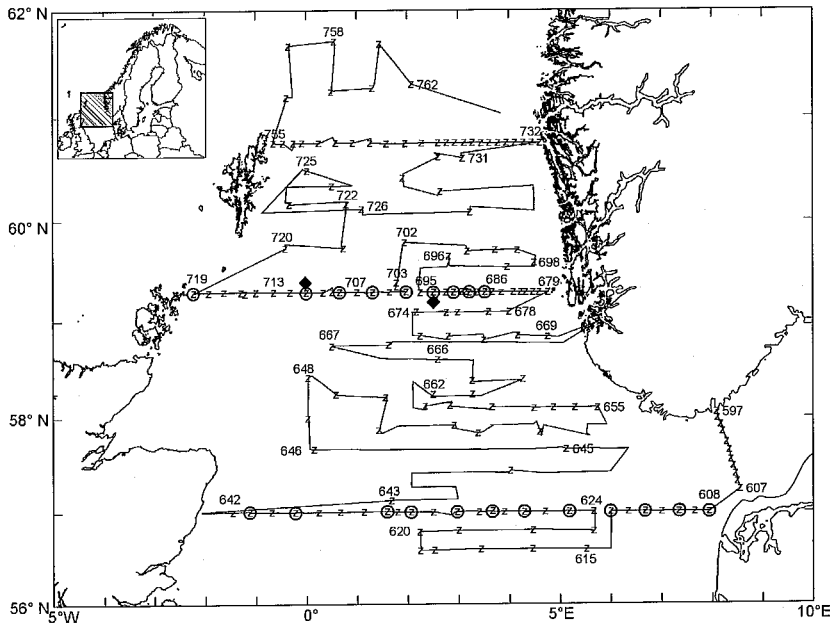
Cruise no 2007205  
 "Johan Hjort"  
 11 Apr-13 May 2007  
 ● Grab station



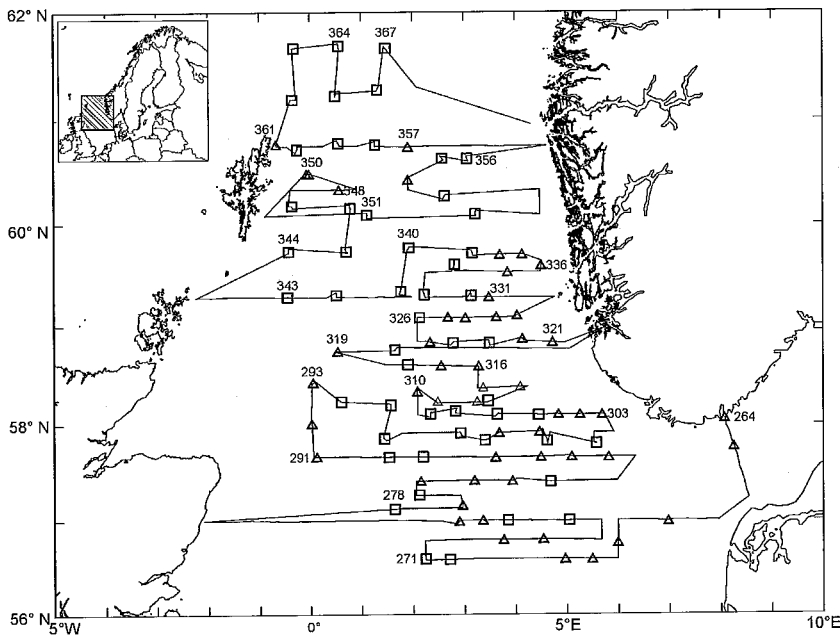
Cruise no 2007206  
 "Johan Hjort"  
 14 May–9 June 2007  
 z CTD st.no 457–596



Cruise no 2007206  
 "Johan Hjort"  
 14 May–9 June 2007  
 ▲ Pelagic trawl  
 st.no 253–263

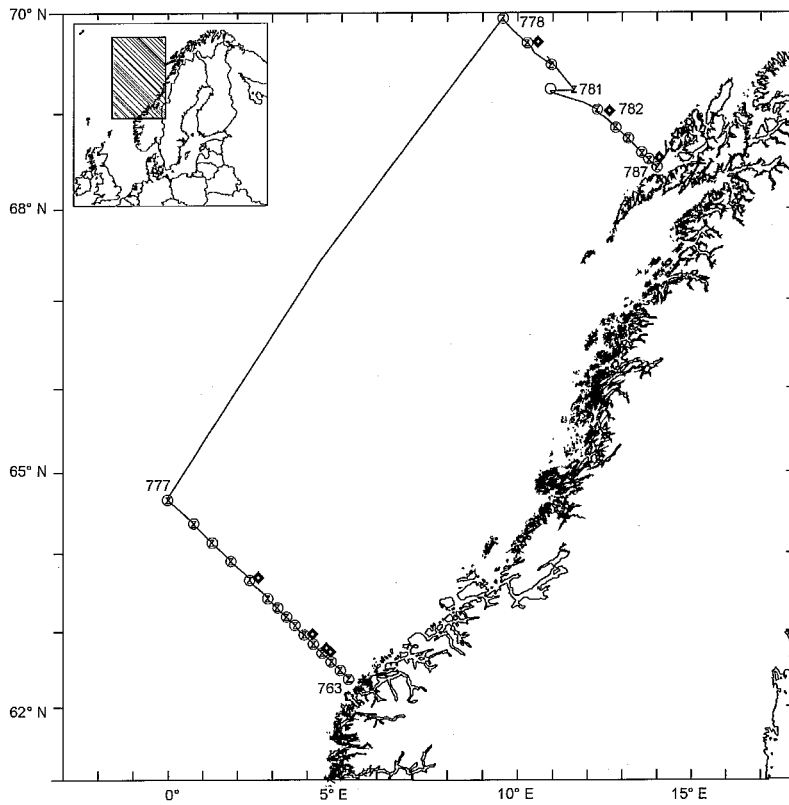


Cruise no 2007208  
 "Johan Hjort"  
 21 June–19 July 2007  
 z CTD st.no 597–762  
 o Plankton st. (WP-II-net)  
 ◆ Plankton st. (Mocness)  
 Standard sections:  
 Oksøy–Hansthalm  
 st.no 597–607  
 Hansthalm–Aberdeen  
 st.no 608–614 and 624–642  
 Fedje–Shetland  
 st.no 679–695 and 704–719  
 Utsira-W st.no 732–755

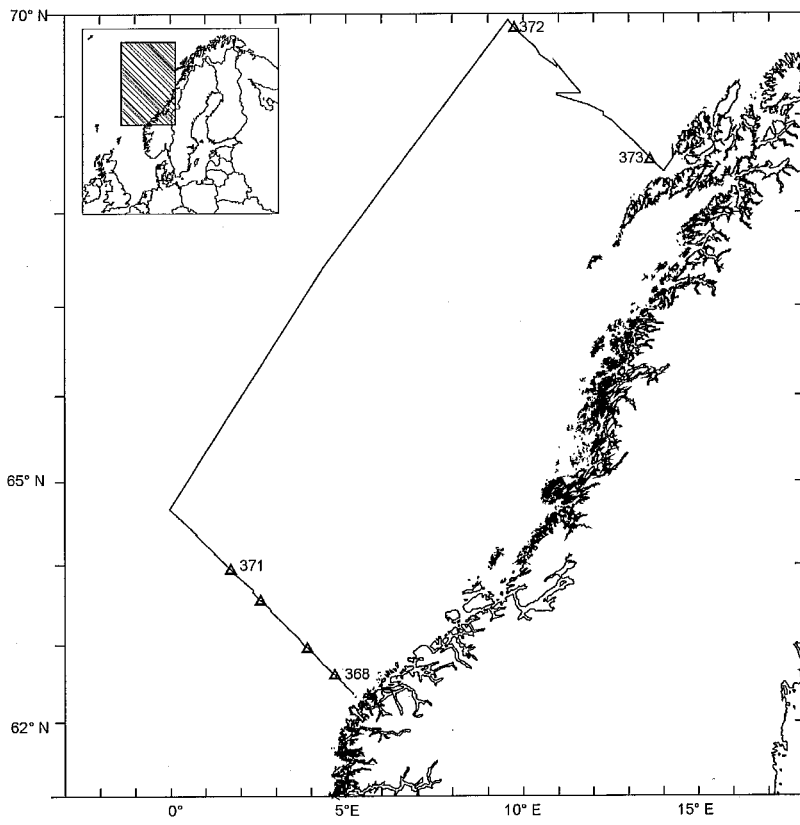


Cruise no 2007208  
 "Johan Hjort"  
 21 June–19 July 2007  
 Trawl st.no 264–367  
 △ Pelagic trawl  
 □ Bottom trawl

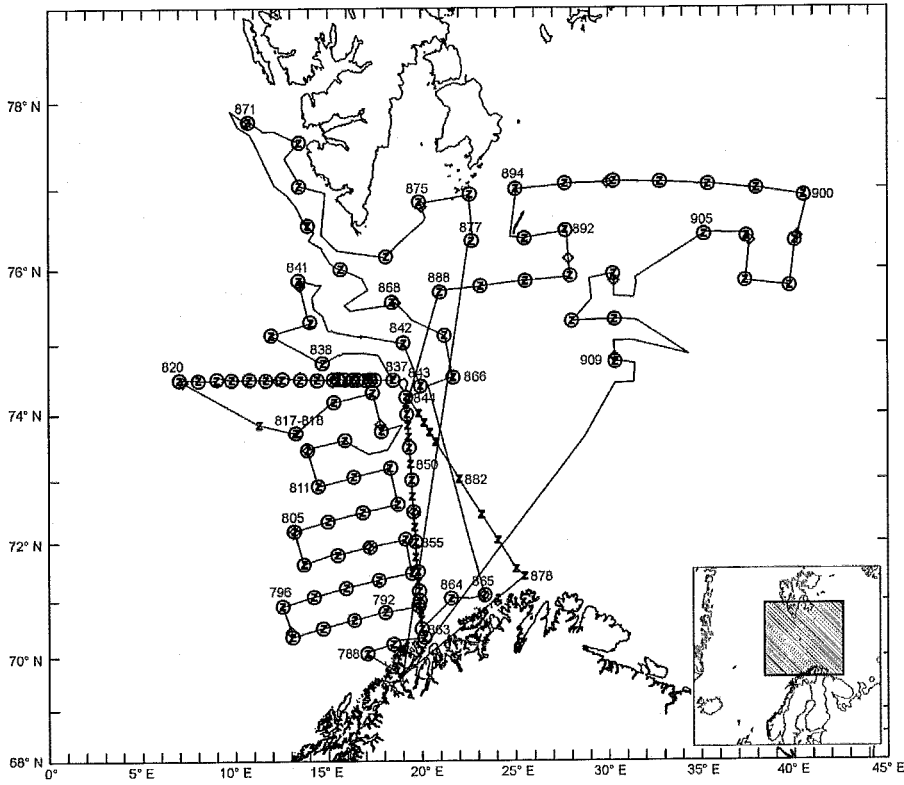




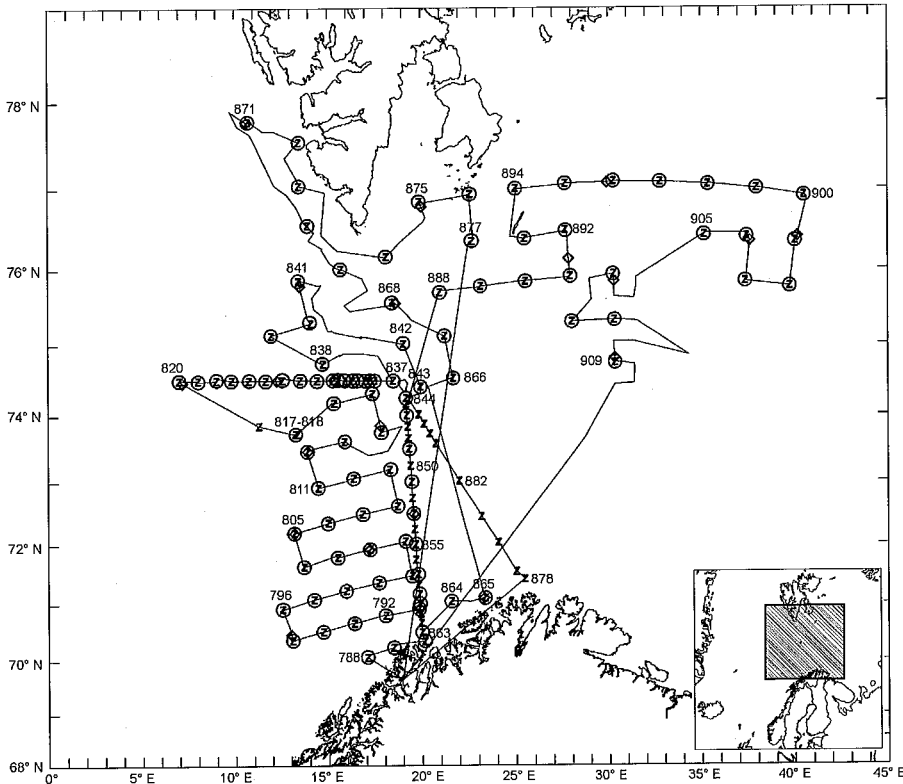
Cruise no 2007209  
 "Johan Hjort"  
 23-31 July 2007  
 z CTD st.no 763-787  
 o Plankton st. (WP-II-net)  
 ♦ Plankton st. (Mocness)  
 Standard sections:  
 Svinøy-NW st.no 763-777  
 Gimsøy-NW st.no 778-787



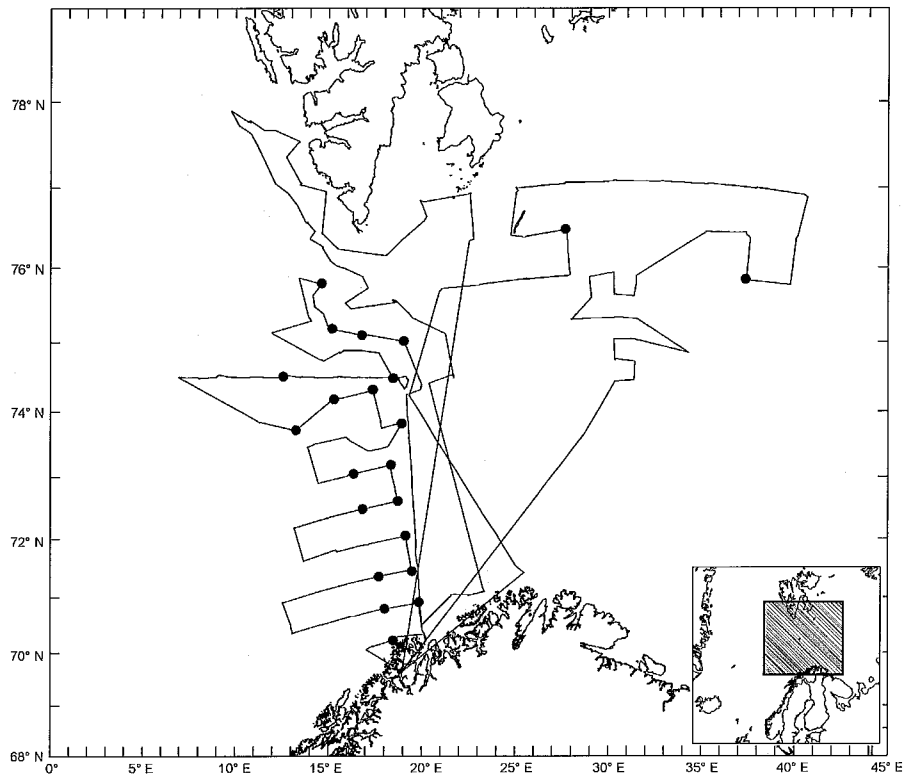
Cruise no 2007209  
 "Johan Hjort"  
 23-31 July 2007  
 Δ Pelagic trawl  
 st.no 368-373



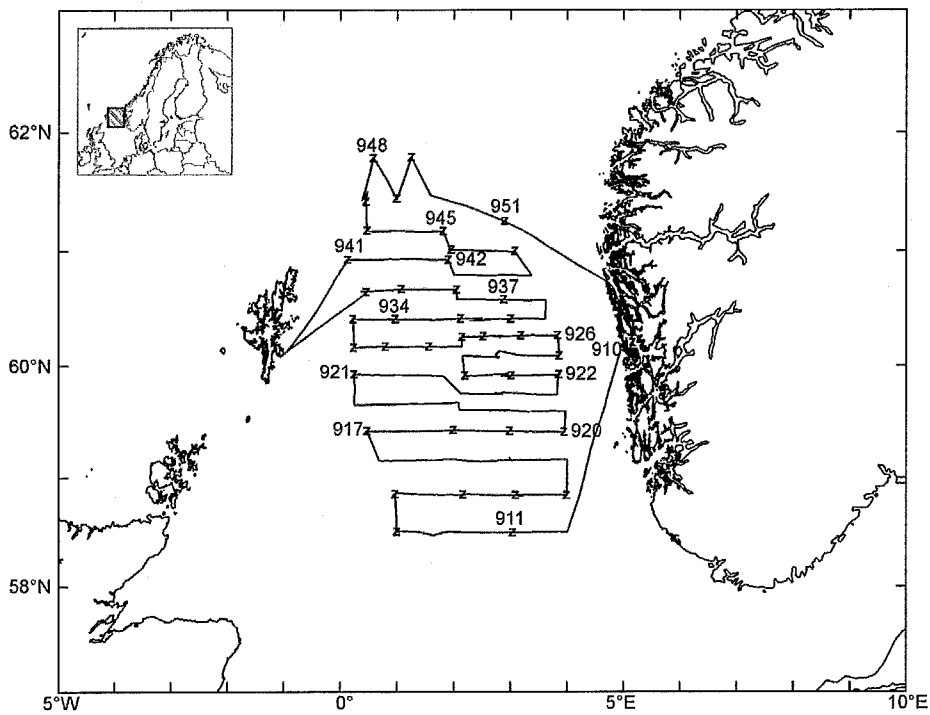
Cruise no 2007210  
 "Johan Hjort"  
 1 Aug–25 Sep 2007  
 z CTD st.no 788–909  
 o Plankton st. (WP-II-net)  
 ◇ Plankton st. (Mocness)  
 Standard sections:  
 Fugløya–Bjørnøya  
 st.no 844–863  
 Bjørnøya–W  
 st.no 820–837



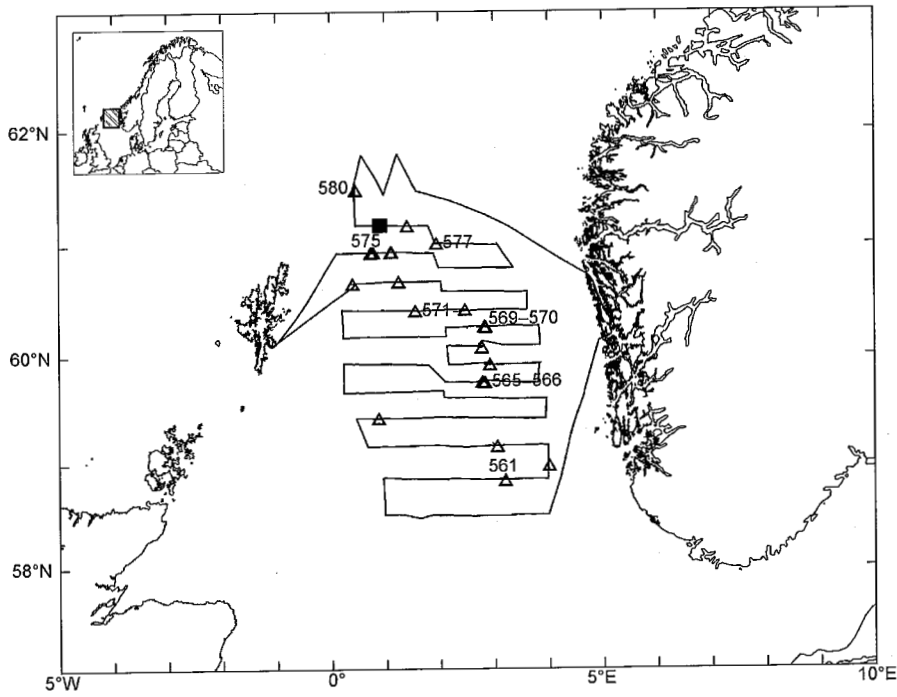
Cruise no 2007210  
 "Johan Hjort"  
 1 Aug–25 Sep 2007  
 Trawl st.no 374–560  
 △ Pelagic trawl  
 □ Bottom trawl



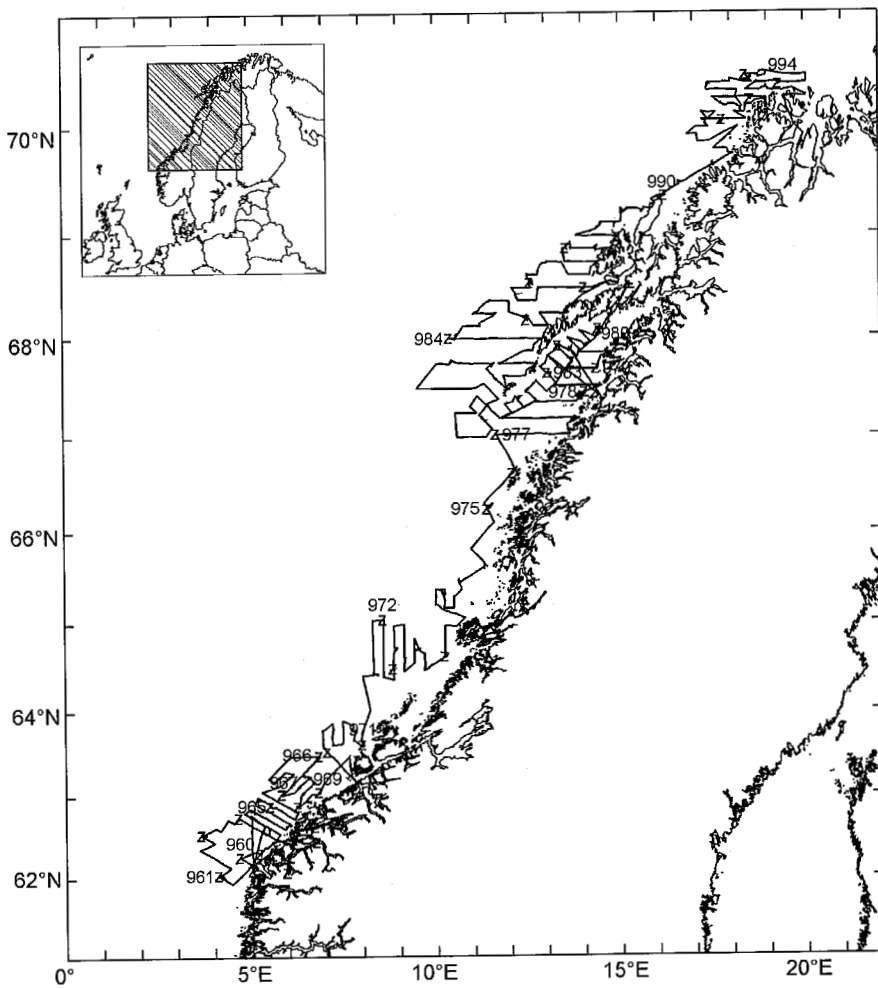
Cruise no 2007210  
 "Johan Hjort"  
 1 Aug–25 Sep 2007  
 ● Grab stations



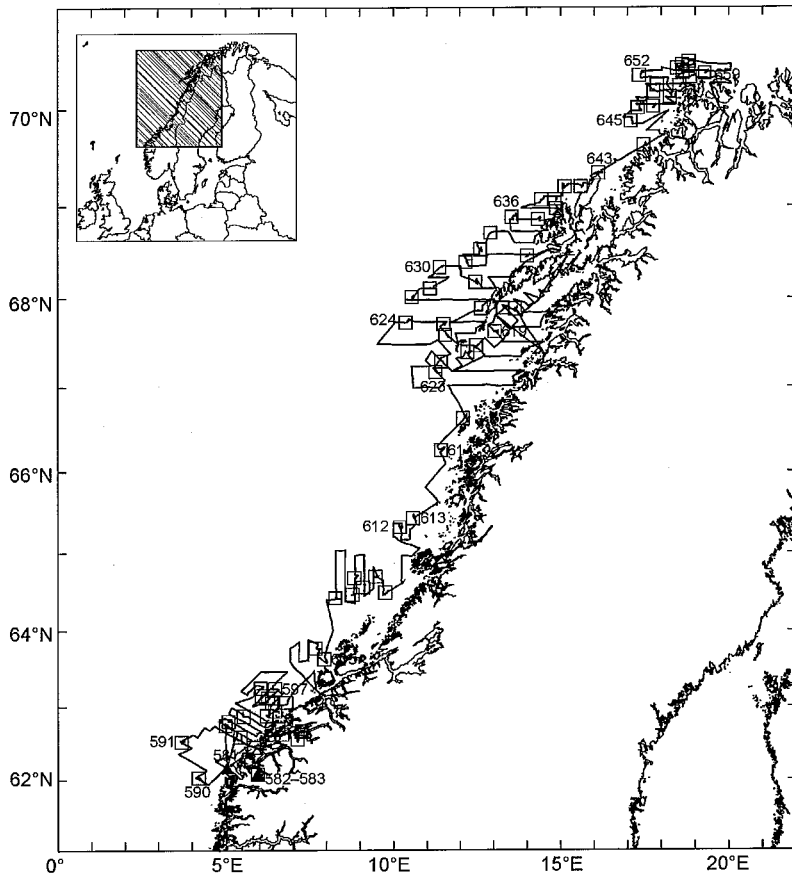
Cruise no 2007211  
 "Johan Hjort"  
 1–11 Oct 2007  
 z CTD st.no 910–951



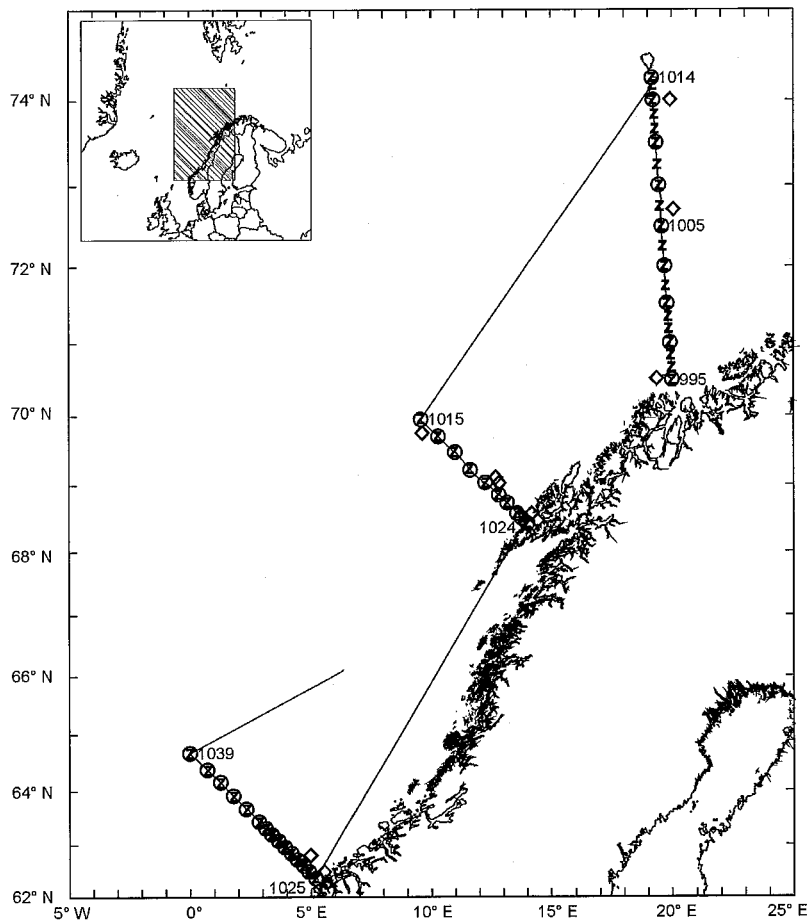
Cruise no 2007211  
 "Johan Hjort"  
 1-11 Oct 2007  
 Trawl st.no 561-580  
 Δ Pelagic trawl  
 ■ Bottom trawl



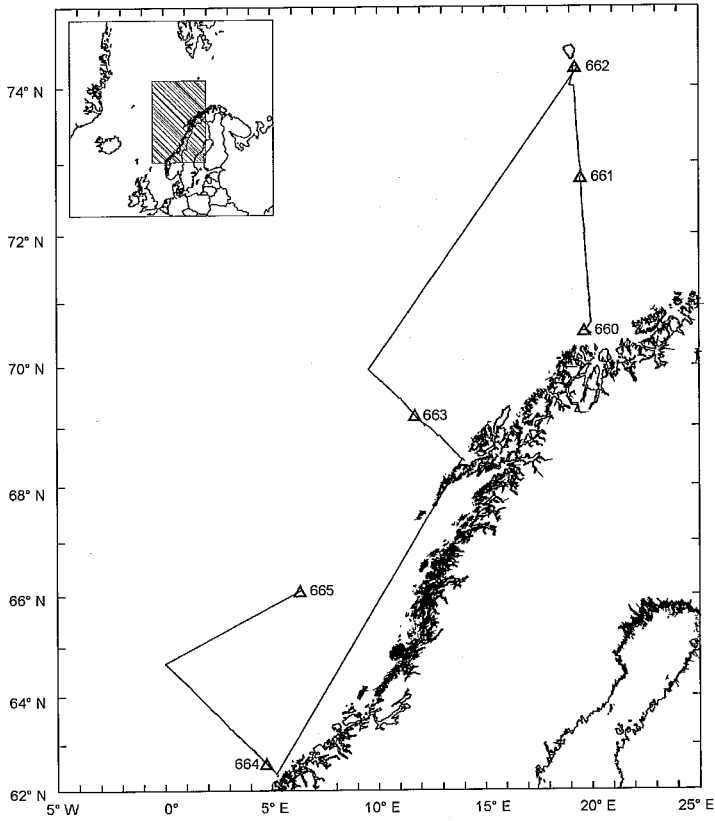
Cruise no 2007212  
 "Johan Hjort"  
 15 Oct-11 Nov 2007  
 z CTD st.no 952-994



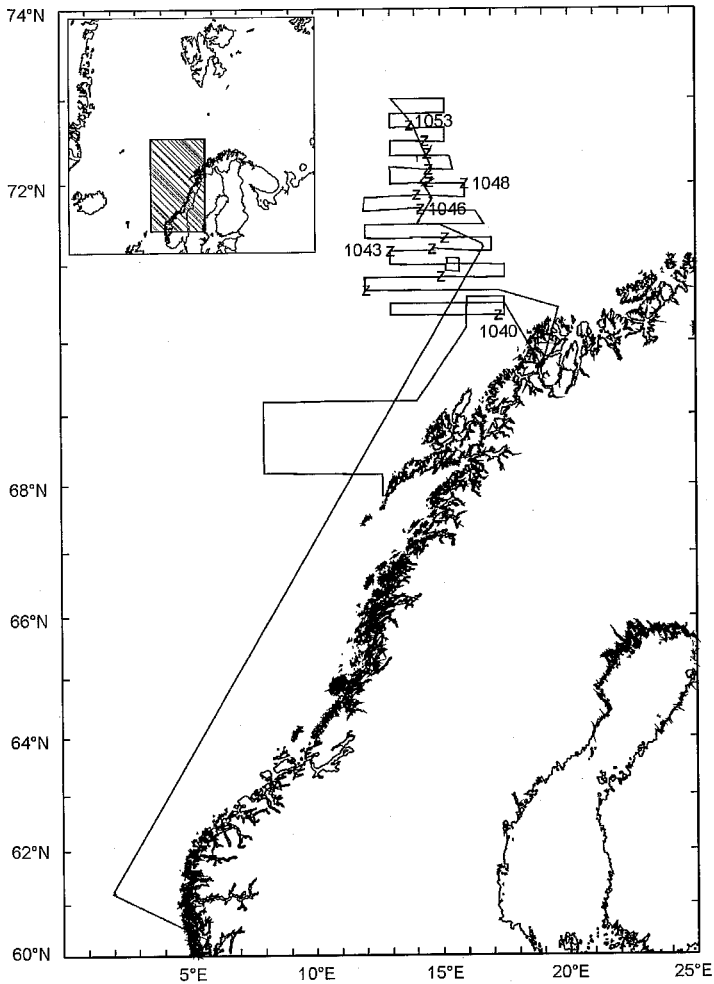
Cruise no 2007212  
 "Johan Hjort"  
 15 Oct–11 Nov 2007  
 Trawl st.no 581–659  
 □ Bottom trawl  
 ▲ Pelagic trawl



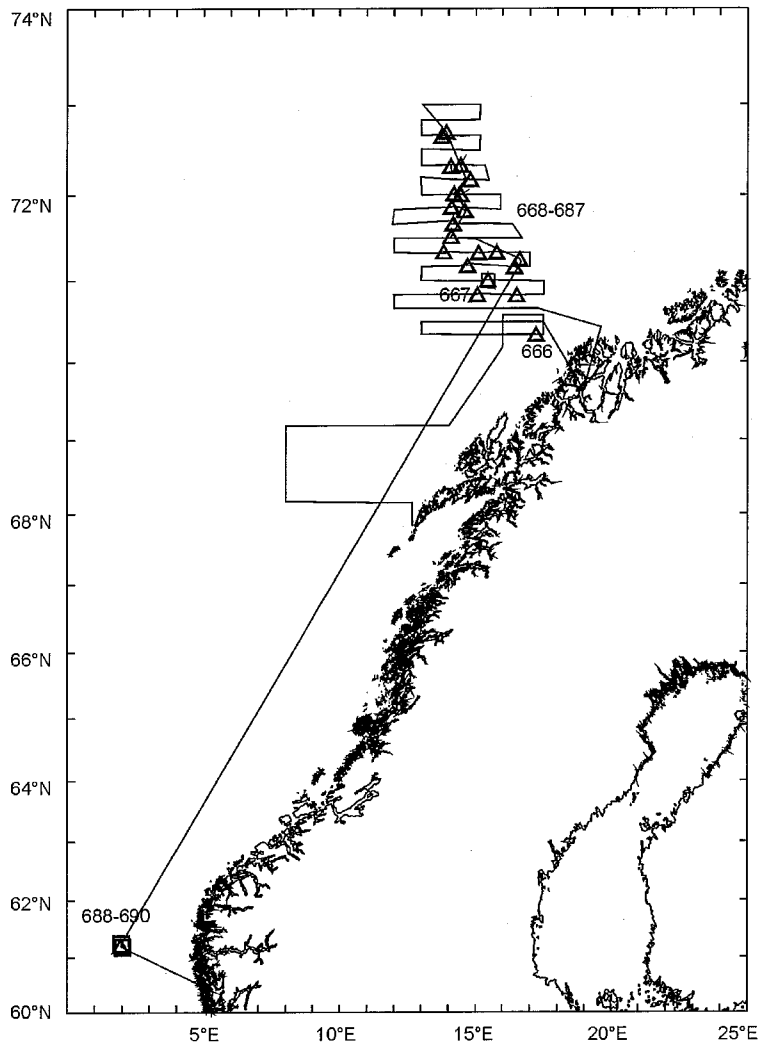
Cruise no 2007213  
 "Johan Hjort"  
 14–26 Nov 2007  
 z CTD st.no 995–1039  
 ○ Plankton st. (WP-II-net)  
 ◇ Plankton st. (Mocness)  
 Standard sections:  
 Fugløya–Bjørnøya  
 st.no 995–1014  
 Gimsøy-NW st.no 1015–1024  
 Svinøy-NW st.no 1025–1039



Cruise no 2007213  
 "Johan Hjort"  
 14-26 Nov 2007  
 Δ Pelagic st.no 660-665

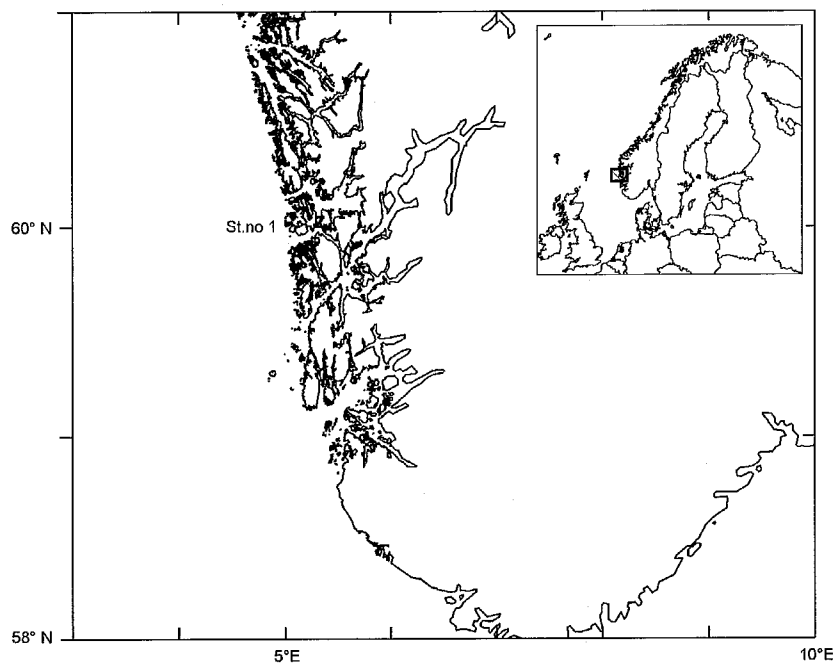


Cruise no 2007214  
 "Johan Hjort"  
 26 Nov-18 Dec 2007  
 z CTD st.no 1040-1053

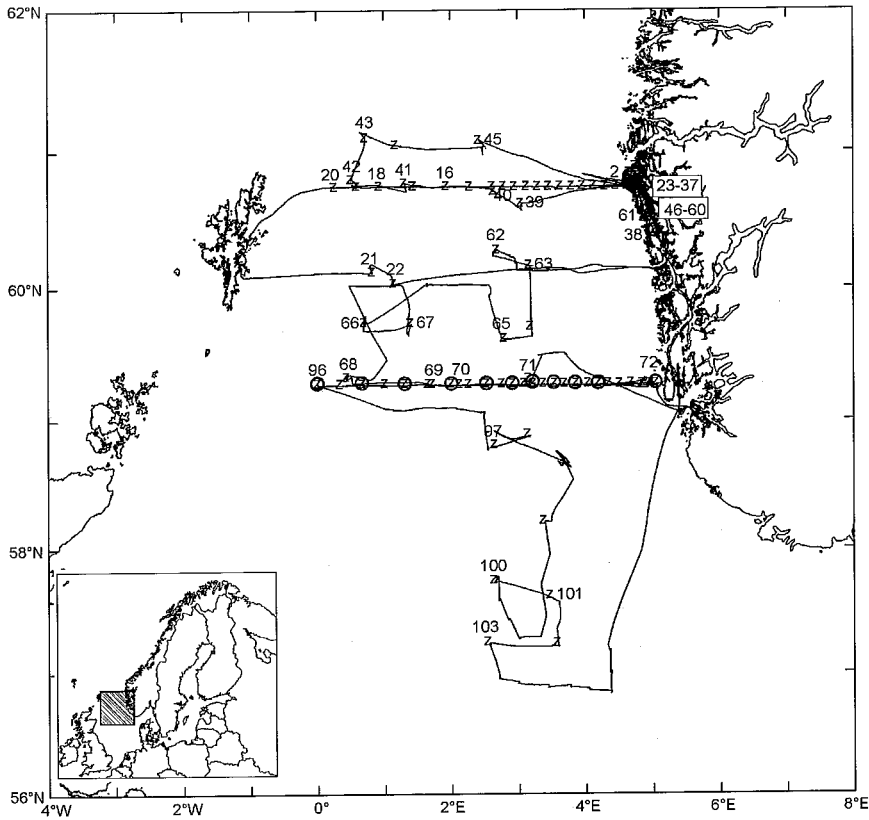


Cruise no 2007214  
 "Johan Hjort"  
 26 Nov-18 Dec 2007  
 Trawl st.no 666-690  
 Δ Pelagic trawl  
 □ Bottom trawl

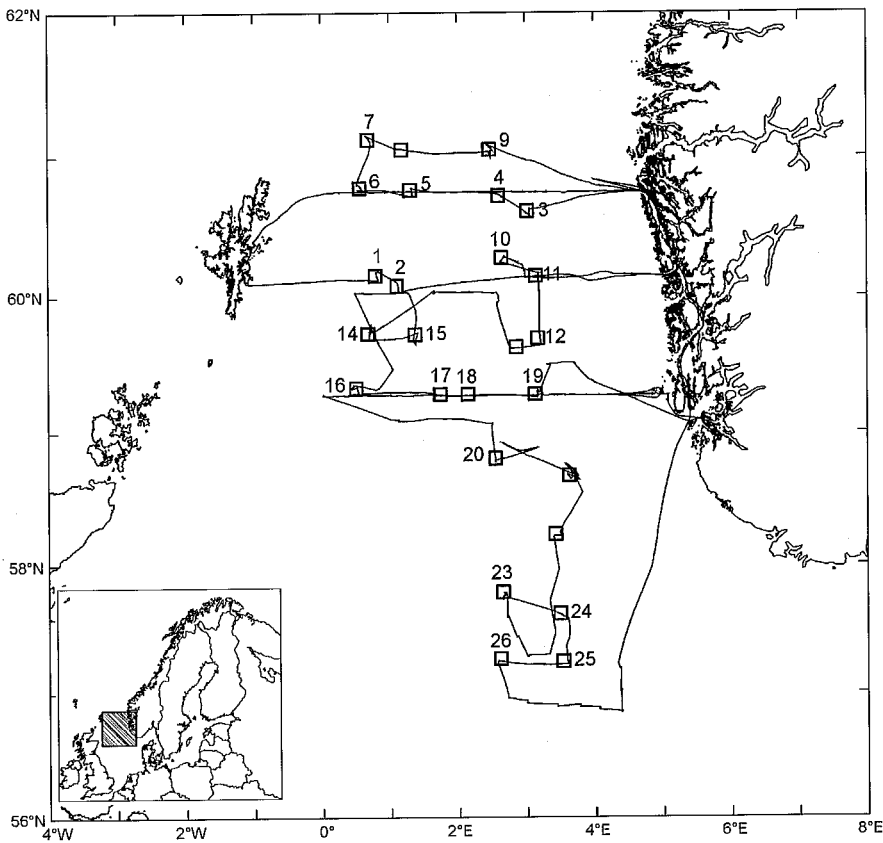
### 4.3 Håkon Mosby



Cruise no 2007601  
 "Håkon Mosby"  
 6-7 Jan 2007  
 z CTD st.no 1

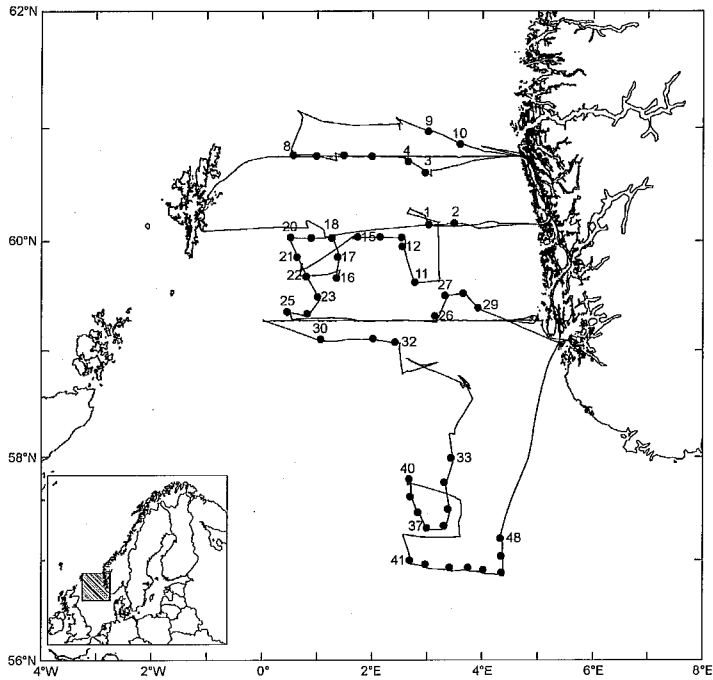


Cruise no 2007602  
 "Håkon Mosby"  
 8 Jan-6 Feb 2007  
 z CTD st.no 2-103  
 o Plankton st. (WP-II-net)  
 Standard sections:  
 Fedje-Shetland  
 st.no 2-20  
 Utsira-W  
 st.no 72-96

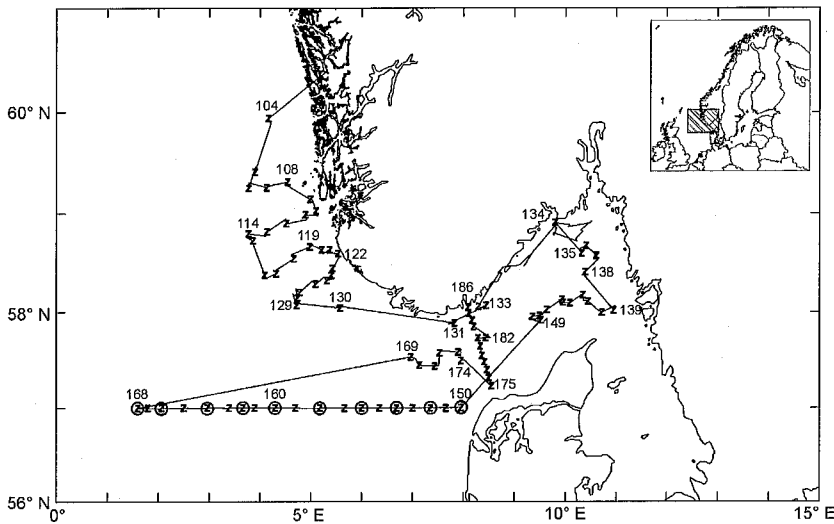


Cruise no 2007602  
 "Håkon Mosby"  
 8 Jan-6 Feb 2007  
 □ Bottom trawl st.no 1-26

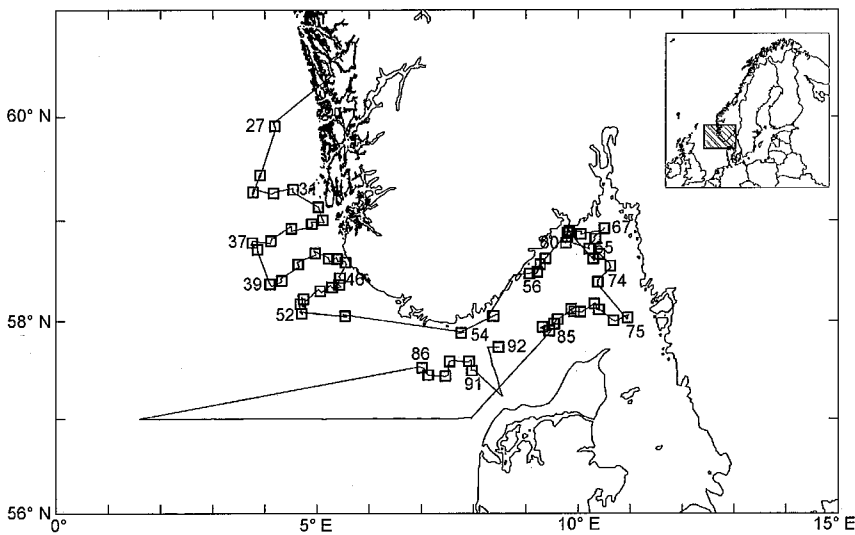




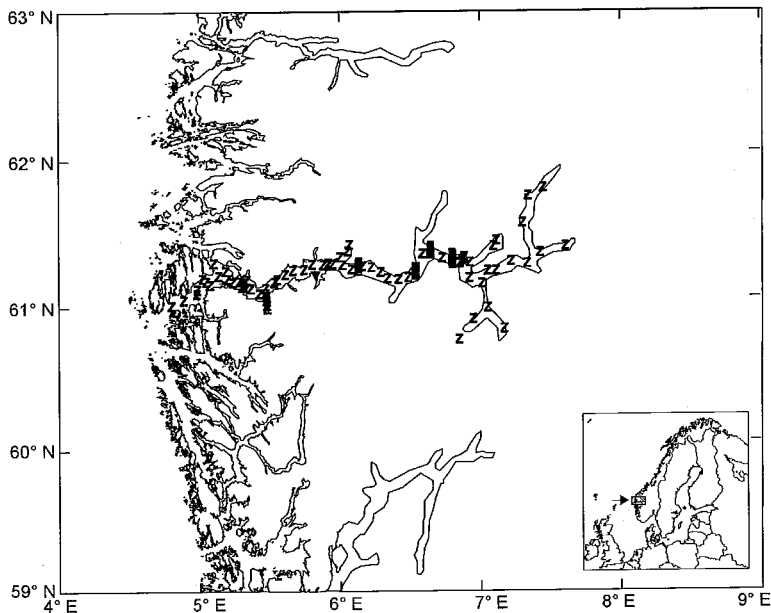
Cruise no 2007602  
 "Håkon Mosby"  
 8 Jan-6 Feb 2007  
 ● Mik st.no 1-48



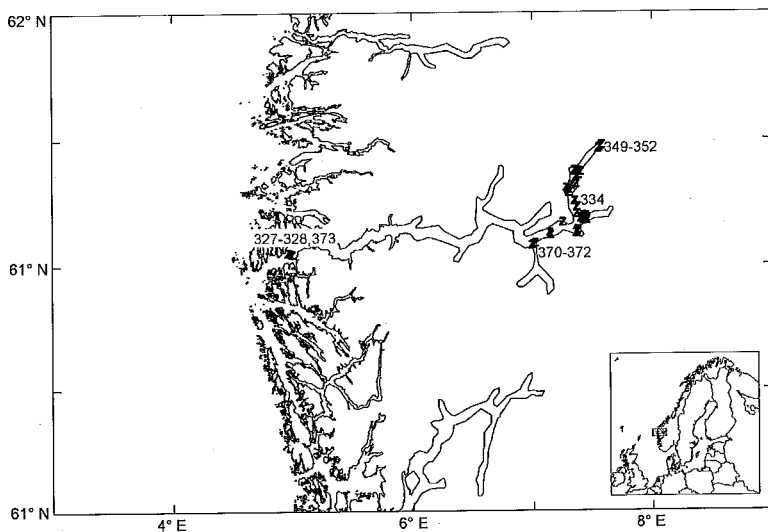
Cruise no 2007603  
 "Håkon Mosby"  
 7-22 Feb 2007  
 z CTD st.no 104-186  
 o Plankton st. (WP-II-net)  
 Standard sections:  
 Hanstholm-Aberdeen  
 st.no 150-168  
 Oksøy-Hanstholm  
 st.no 175-186



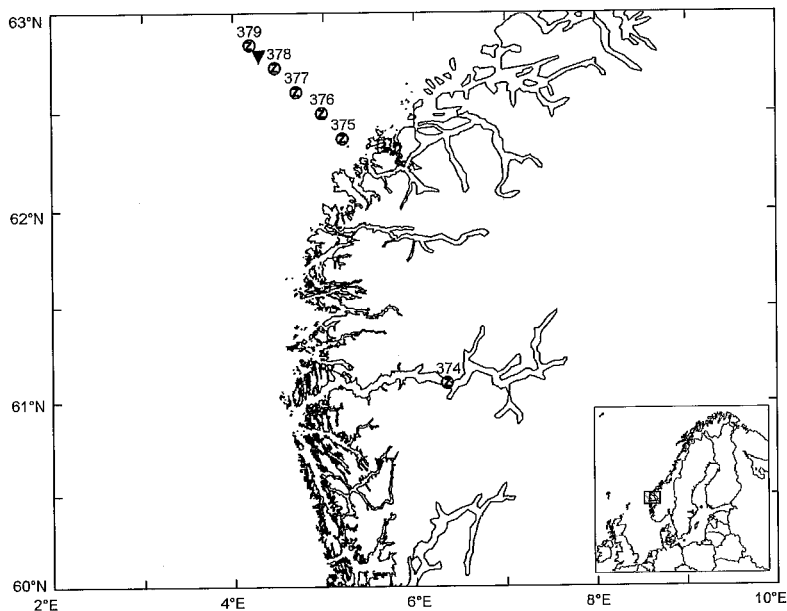
Cruise no 2007603  
 "Håkon Mosby"  
 7-22 Feb 2007  
 □ Bottom trawl st.no 27-92



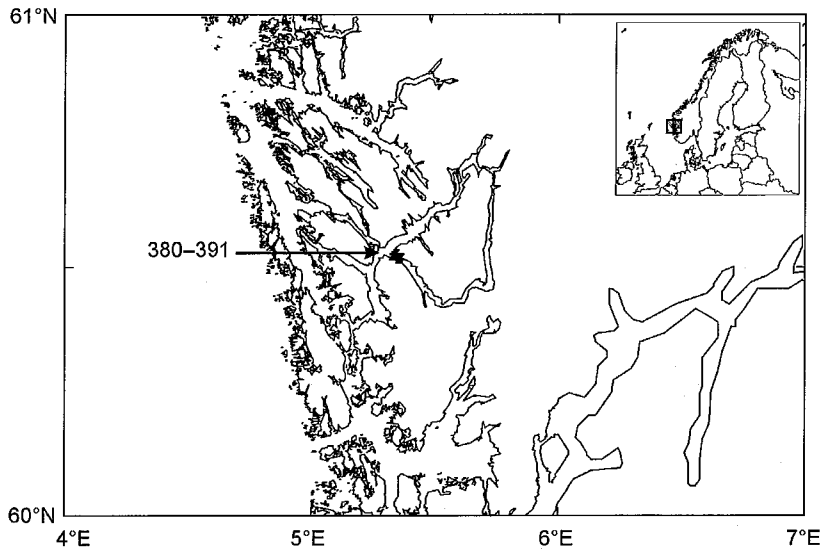
Cruise no 2007604  
 "Håkon Mosby"  
 27 Feb–8 Mar 2007  
 z CTD st.no 187–326  
 ▼ Deployment of mooring  
 with a RDCP600 and a Seaguard  
 current meter



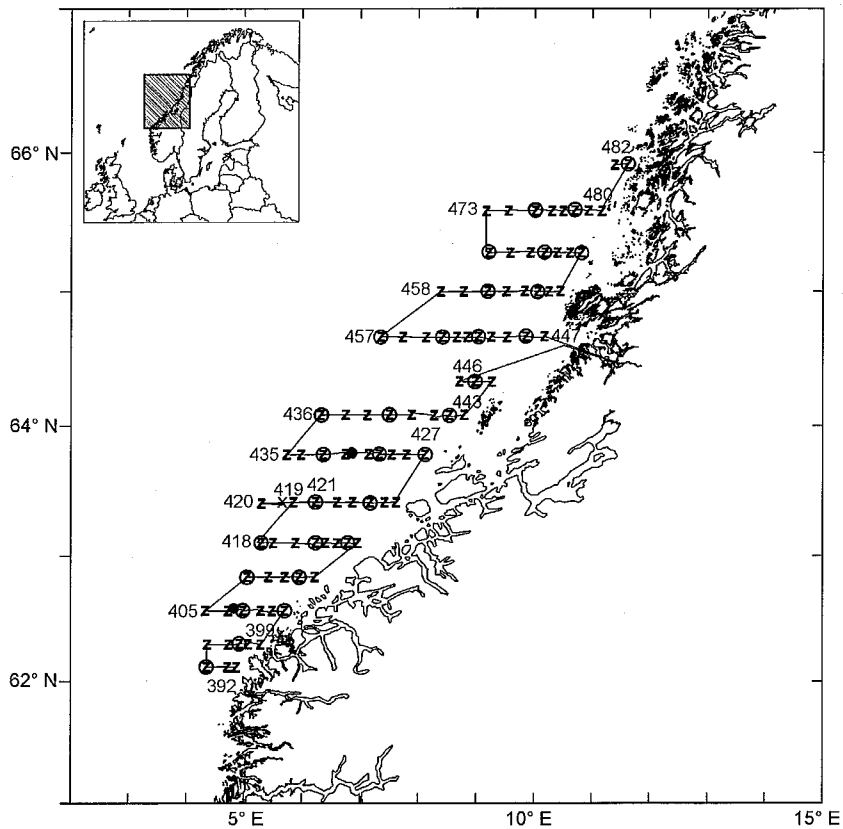
Cruise no 2007606  
 "Håkon Mosby"  
 12–15 Mar 2007  
 z CTD st.no 327–373



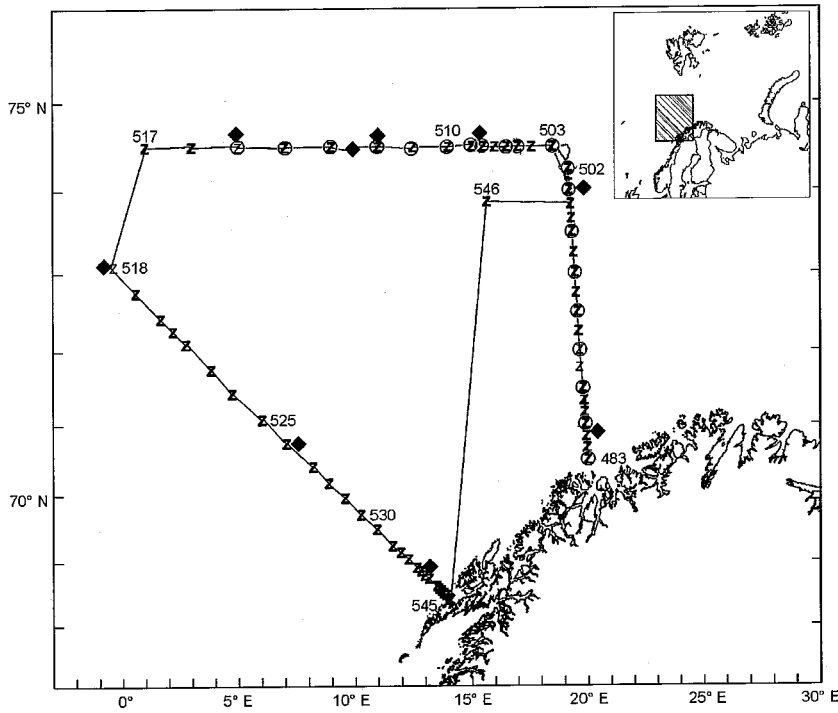
Cruise no 2007607  
 "Håkon Mosby"  
 16–23 Mar 2007  
 z CTD st.no 374–379  
 ○ Plankton st. (WP-II-net)  
 ▼ Recovery and redeployment of  
 mooring S1  
 Standard section:  
 Svinøy-NW st.no 375–379



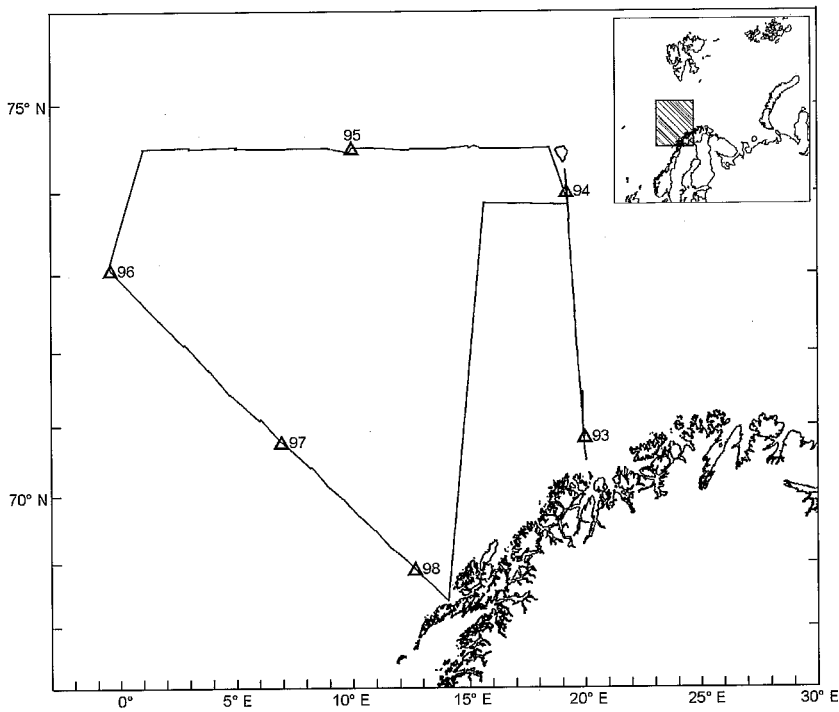
Cruise no 2007608  
 "Håkon Mosby"  
 26-27 Mar 2007  
 z CTD st.no 380-391



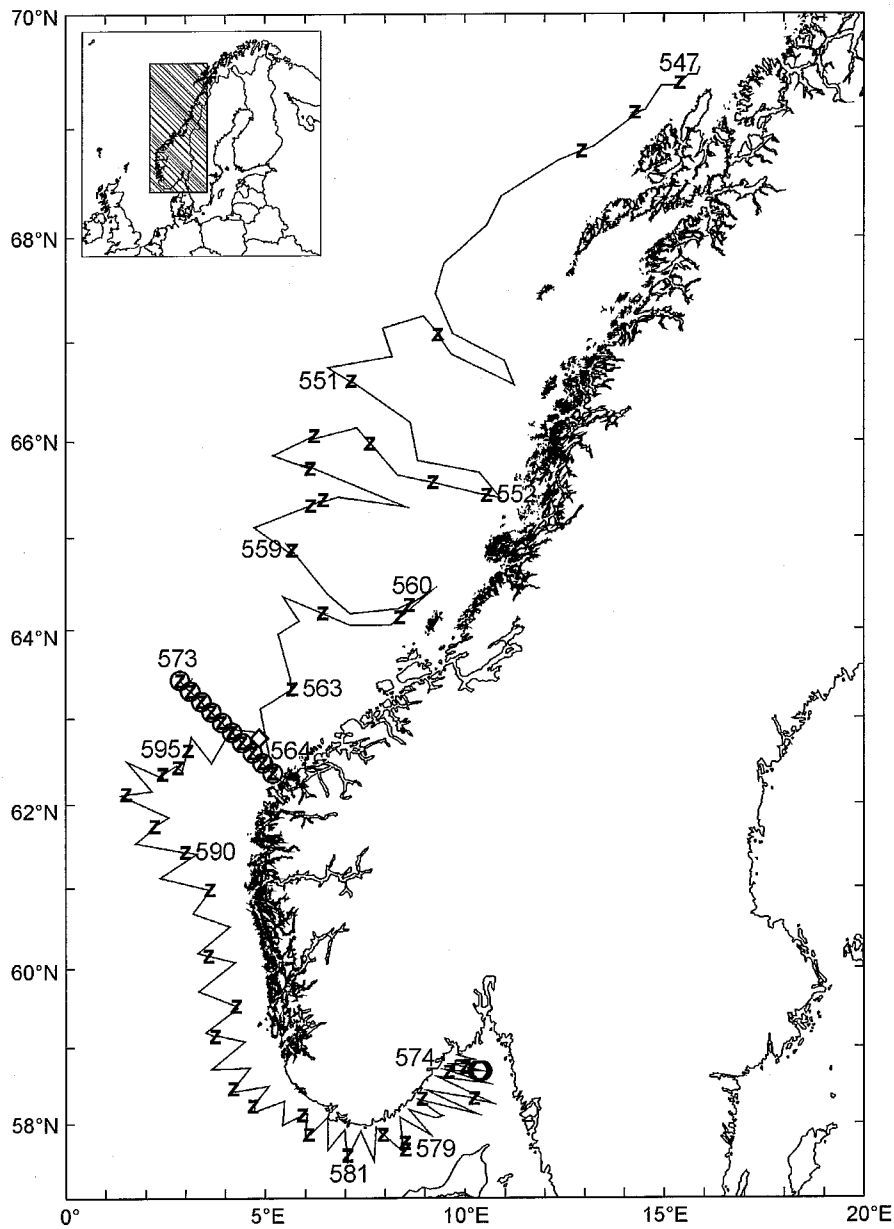
28 Mar-11 Apr 2007  
 Cruise no 2007609  
 "Håkon Mosby"  
 z CTD st.no 392-482  
 And fish larvae collected with  
 Gulf III or T-80 net (x Gulf III  
 without CTD)  
 o Plankton st. (WP-II-net)  
 ● Multinet hauls



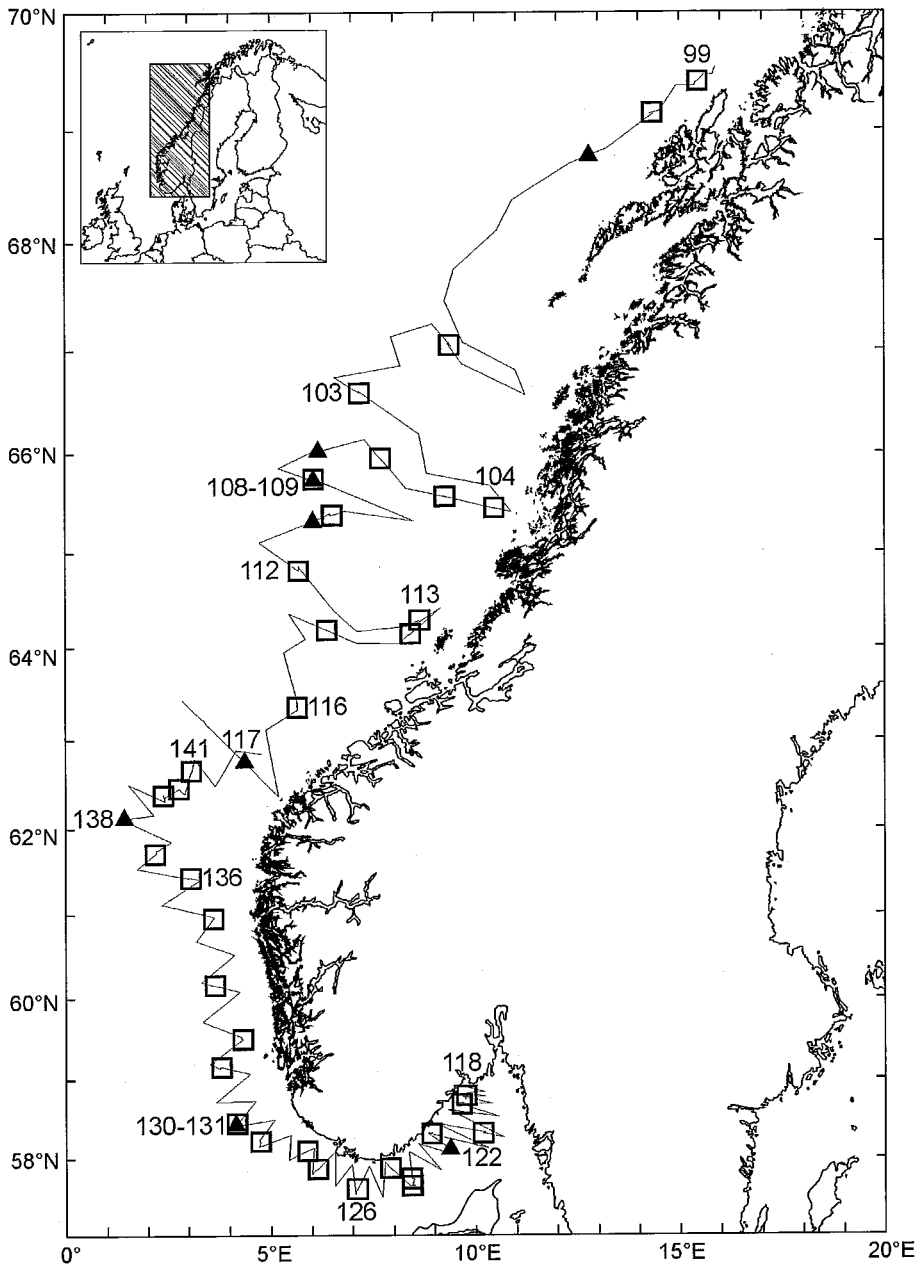
Cruise no 2007610  
 "Håkon Mosby"  
 21 Apr–5 May 2007  
 z CTD st.no 483–546  
 ○ Plankton st. (WP-II-net)  
 ◆ Mocness st.  
 Standard sections:  
 Fugløya–Bjørnøya  
 st.no 483–502  
 Bjørnøya–W st.no 503–517  
 Gimsøy–NW  
 st.no 518–545



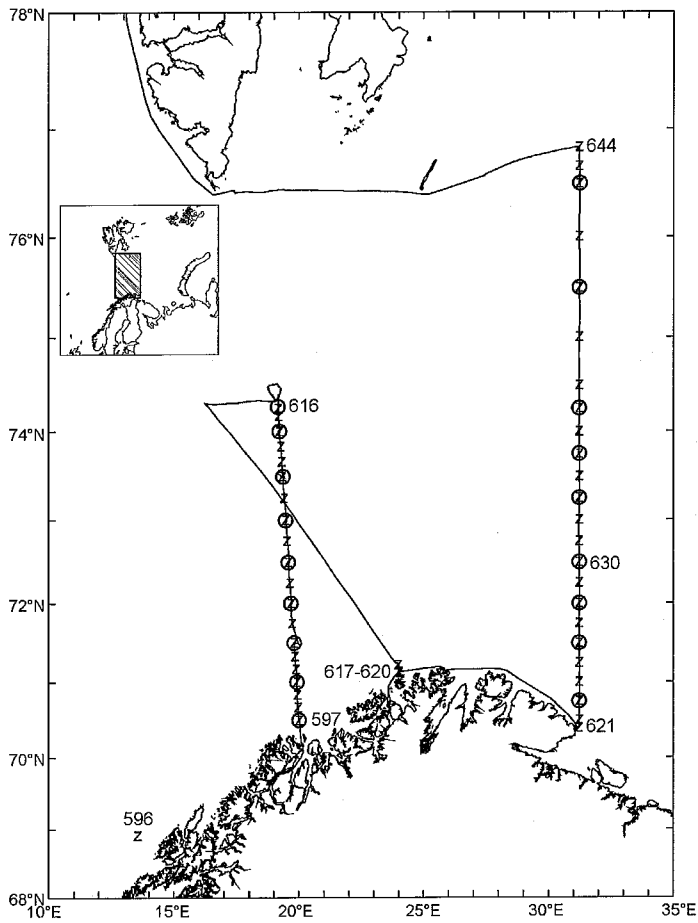
Cruise no 2007610  
 "Håkon Mosby"  
 21 Apr–5 May 2007  
 Δ Pelagic trawl st.no 93–98



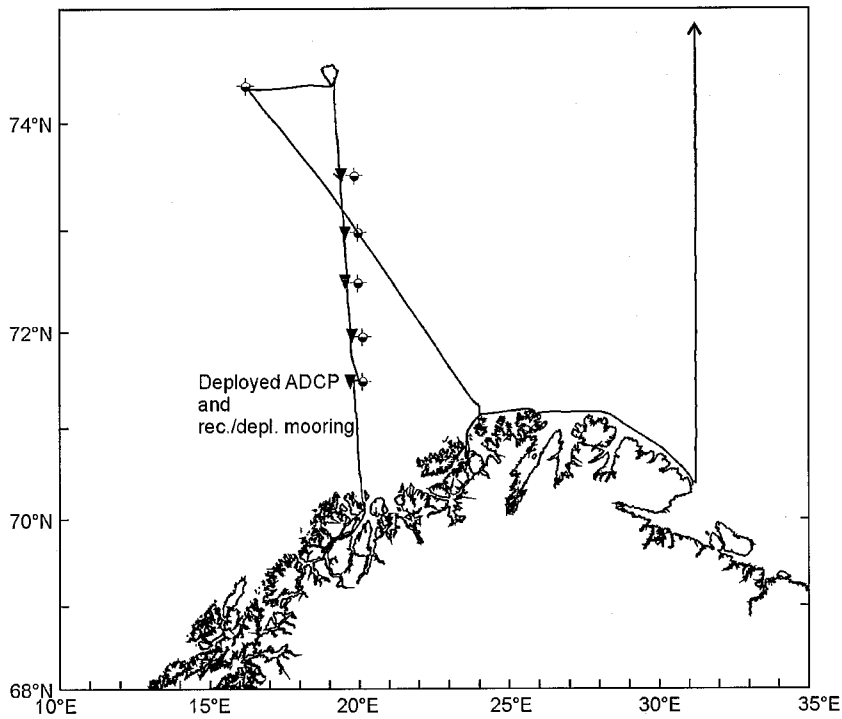
Cruise no 2007611  
 "Håkon Mosby"  
 7 May–2 June 2007  
 z CTD st.no 547–595  
 o Plankton st. (WP-II-net)  
 ◇ Moored st.  
 Standard sections:  
 Svinøy-NW st.no 564–573



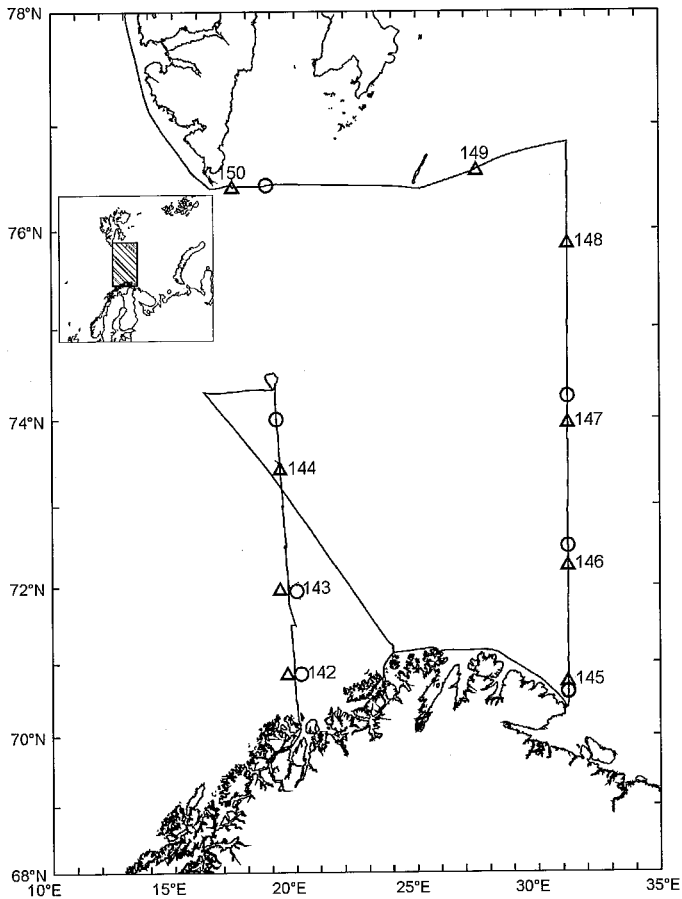
Cruise no 2007611  
 "Håkon Mosby"  
 7 May–2 June 2007  
 Trawl st.no 99–141  
 ▲ Pelagic trawl  
 □ Bottom trawl



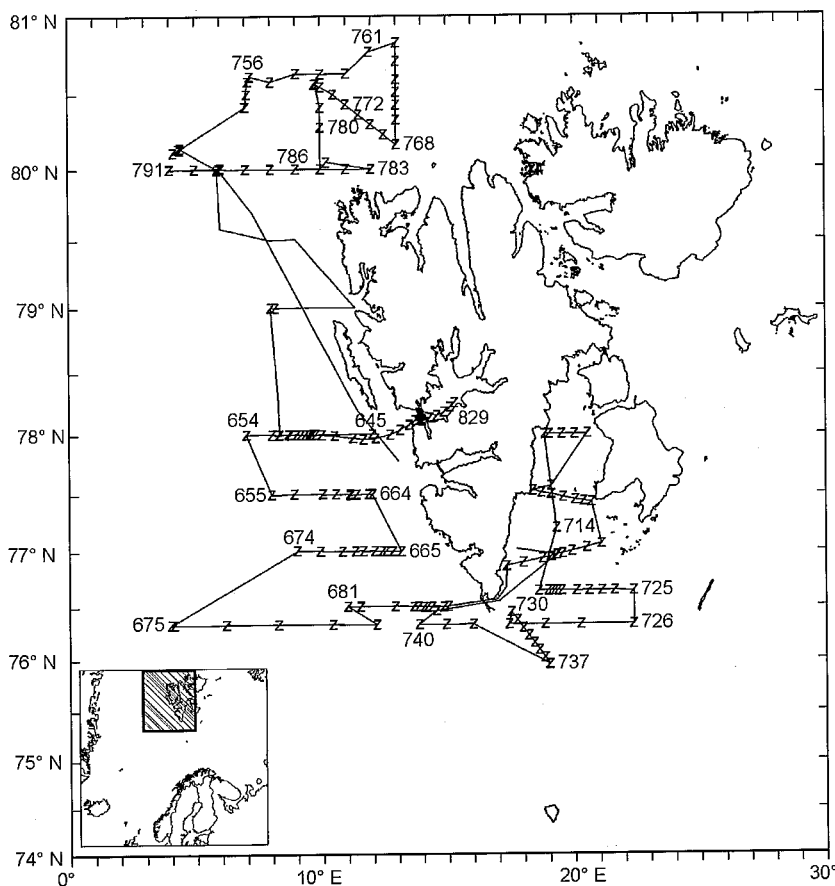
Cruise no 2007612  
 "Håkon Mosby"  
 23 June–9 July 2007  
 z CTD st.no 596–644  
 o Plankton st. (WP-II-net and  
 Algæ-net)  
 Standard sections:  
 Fugløya–Bjørnøya st.no 597–616  
 Vardø-N st.no 621–644



Cruise no 2007612  
 "Håkon Mosby"  
 23 June–9 July 2007  
 ▼ Recovered/deployed mooring  
 ⊕ Deployed surface drifters

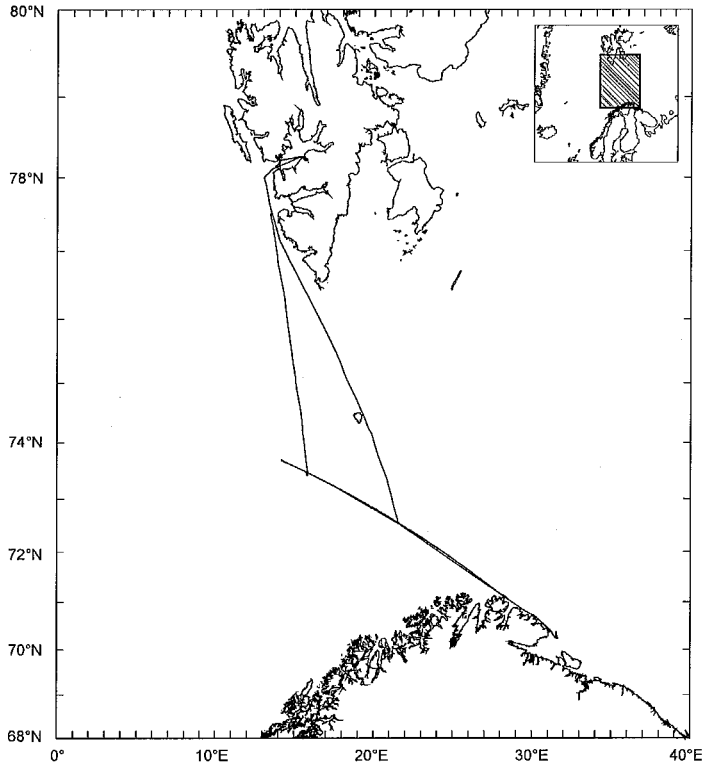


Cruise no 2007612  
 "Håkon Mosby"  
 23 June–9 July 2007  
 Biochemical samples:  
 Δ Pelagic trawl (krill trawl) st.no 142–150  
 ○ T80-net

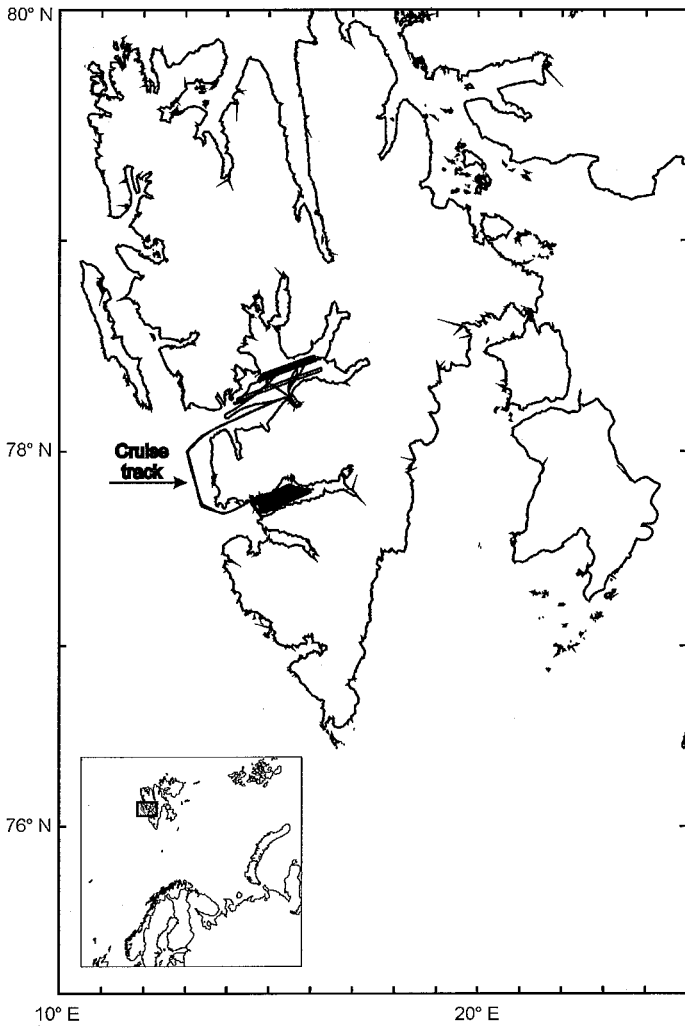


Cruise no 2007613  
 "Håkon Mosby"  
 10 July–4 Aug 2007  
 z CTD st.no 645–829  
 Standard sections:  
 Sørkapp-W st.no 675–680,  
 726–729, 738–740

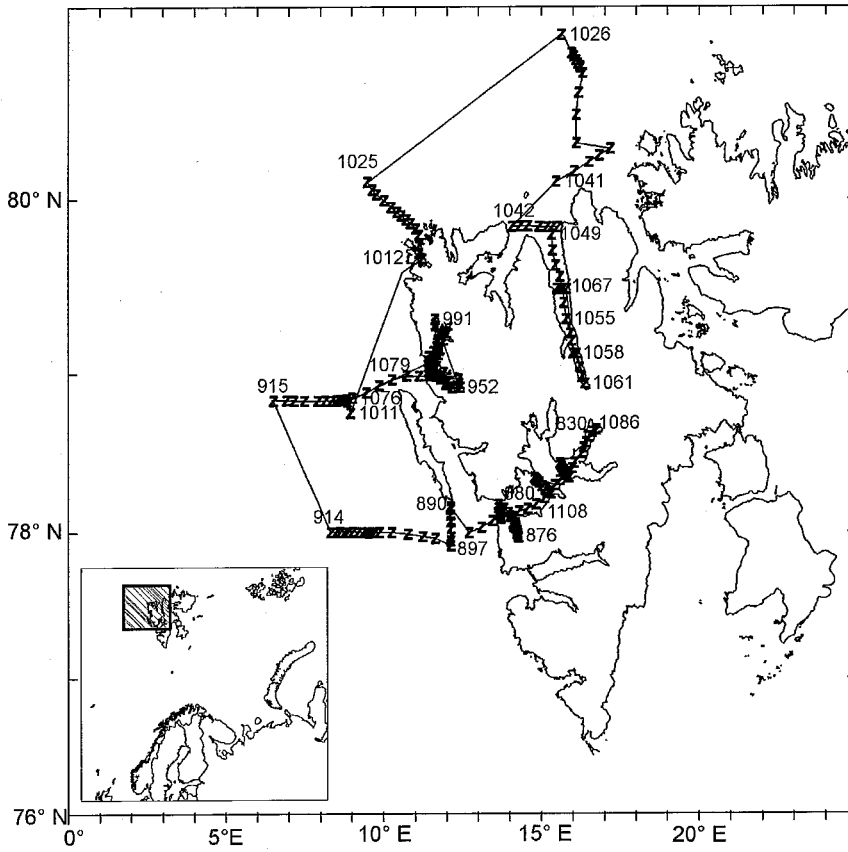




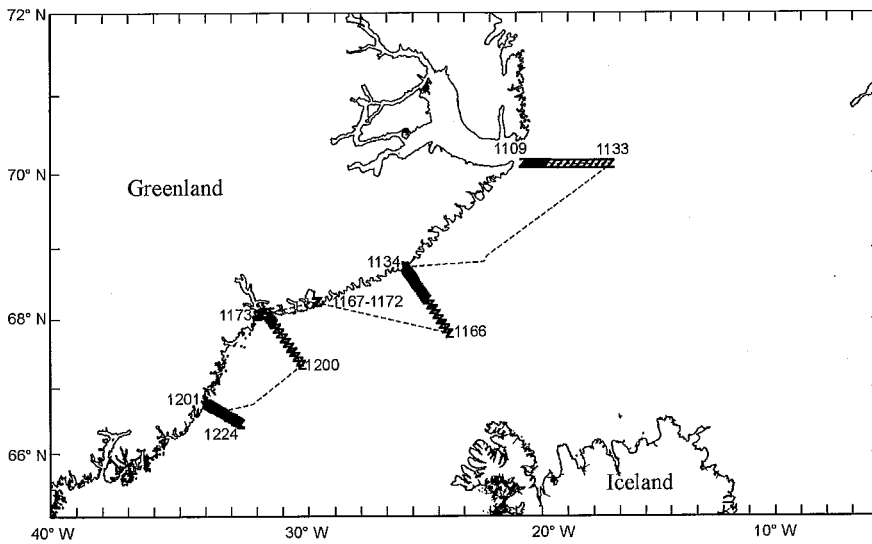
Cruise no 2007614  
 "Håkon Mosby"  
 5-18 Aug 2007  
 Cruise track



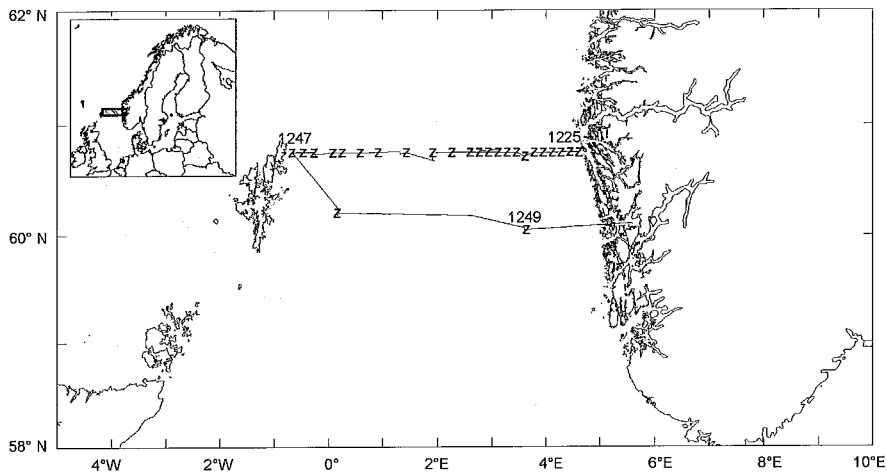
Cruise no 2007615  
 "Håkon Mosby"  
 22 Aug-1 Sep 2007  
 Track chart



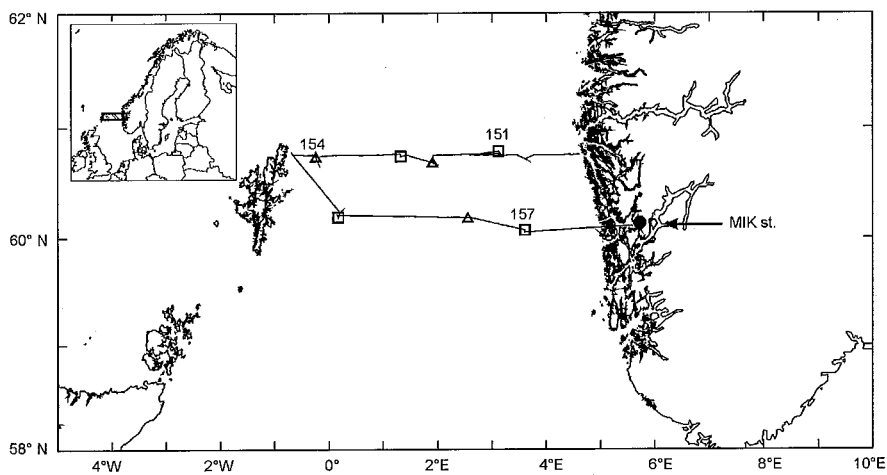
Cruise no 2007617  
 "Håkon Mosby"  
 5-17 Sep 2007  
 z CTD st.no 830-1108



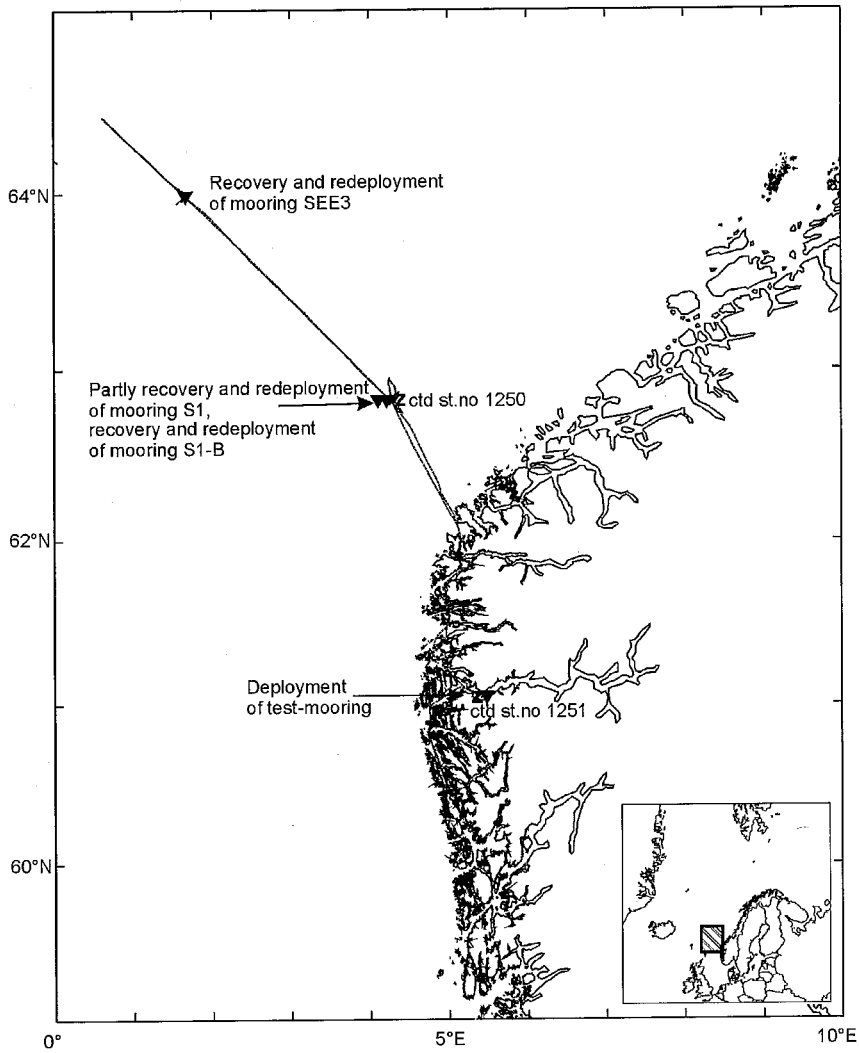
Cruise no 2007618  
 "Håkon Mosby"  
 19 Sep-8 Oct 2007  
 z CTD st.no 1109-1224



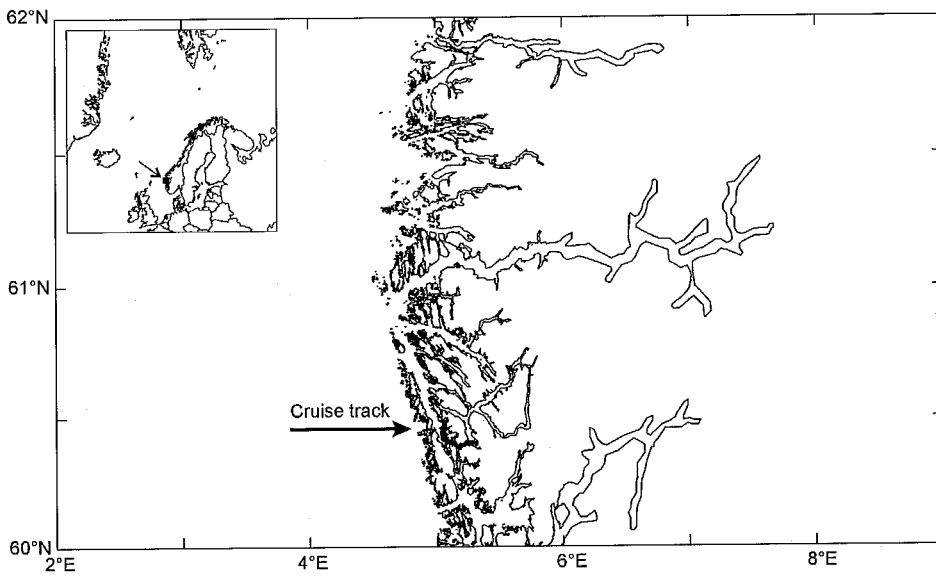
Cruise no 2007619  
 "Håkon Mosby"  
 9-15 Oct 2007  
 z CTD st.no 1225-1249  
 Standard section:  
 Fedje-Shetland  
 st.no 1225-1247



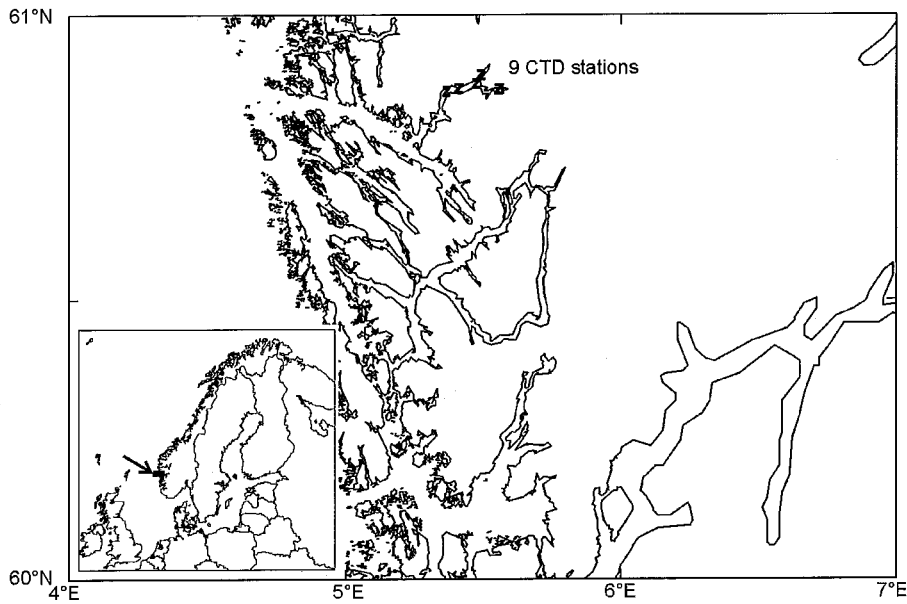
Cruise no 2007619  
 "Håkon Mosby"  
 9-15 Oct 2007  
 Trawl st.no 151-157  
 Δ Pelagic trawl  
 □ Bottom trawl  
 ● MIK st. (Method Kidd  
 Midwater Trawl)



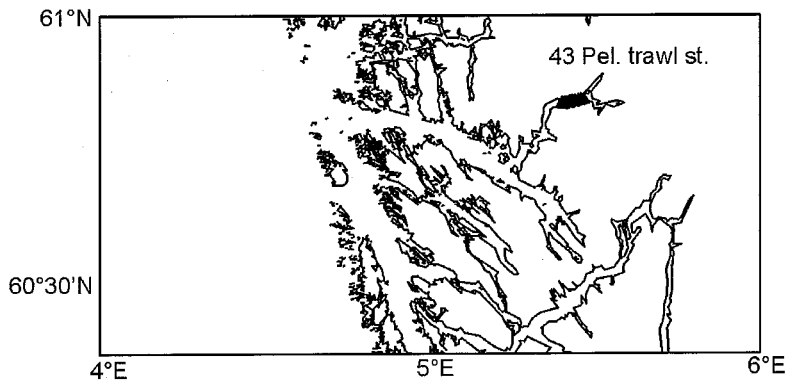
Cruise no 2007620  
 "Håkon Mosby"  
 17-22 Oct 2007  
 z CTD st.no 1250-1251  
 ▼ Recovery and  
 deployment moorings



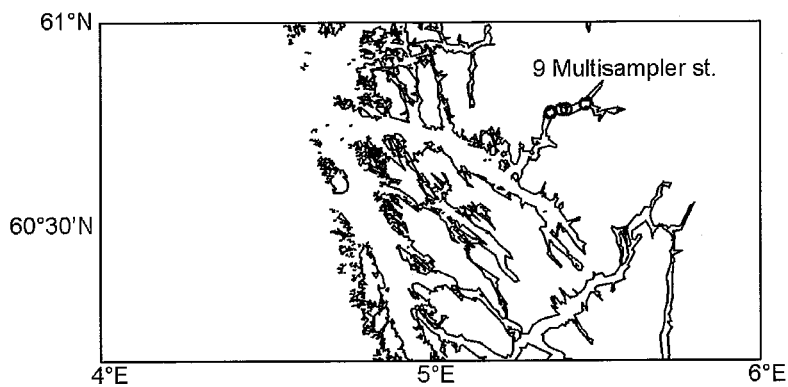
Cruise no  
 2007621  
 "Håkon Mosby"  
 27-29 Oct 2007  
 Cruise track



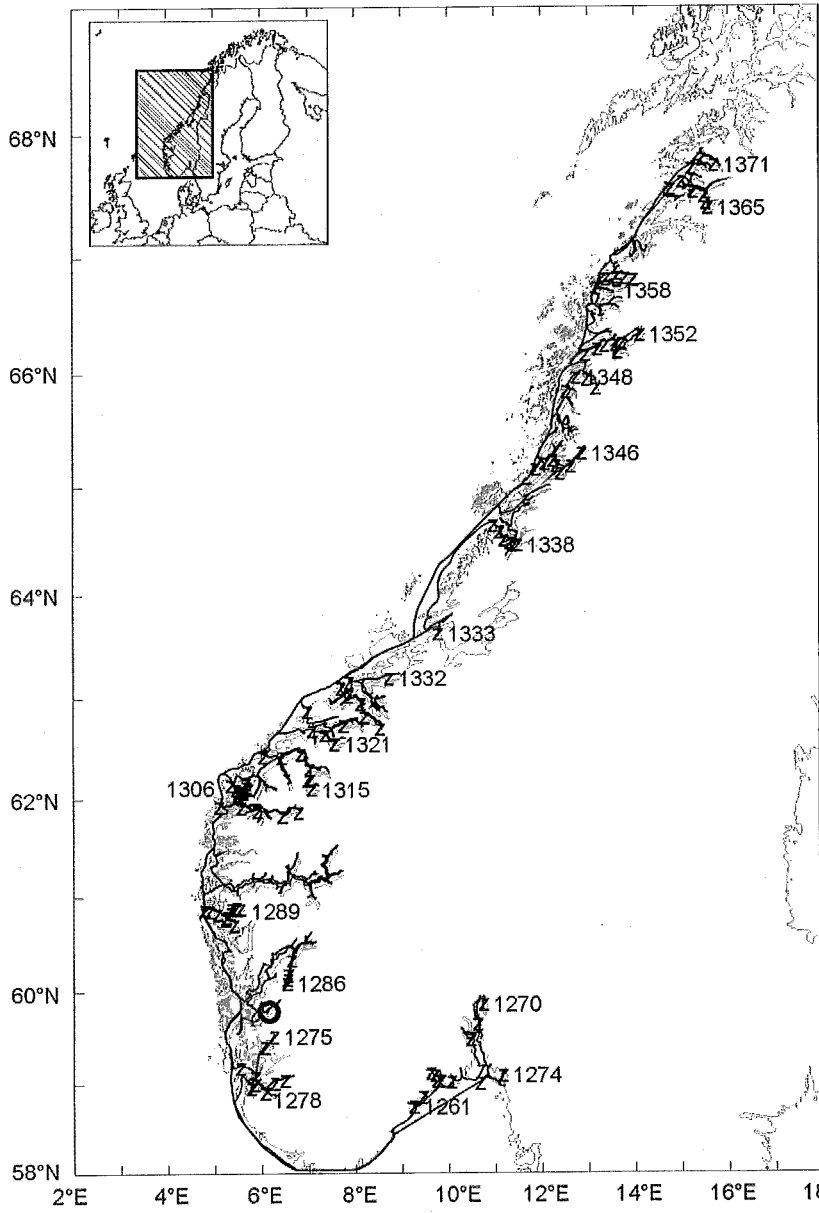
Cruise no 2007622  
 "Håkon Mosby"  
 1-4 Nov 2007  
 z CTD  
 st.no 1252-1260



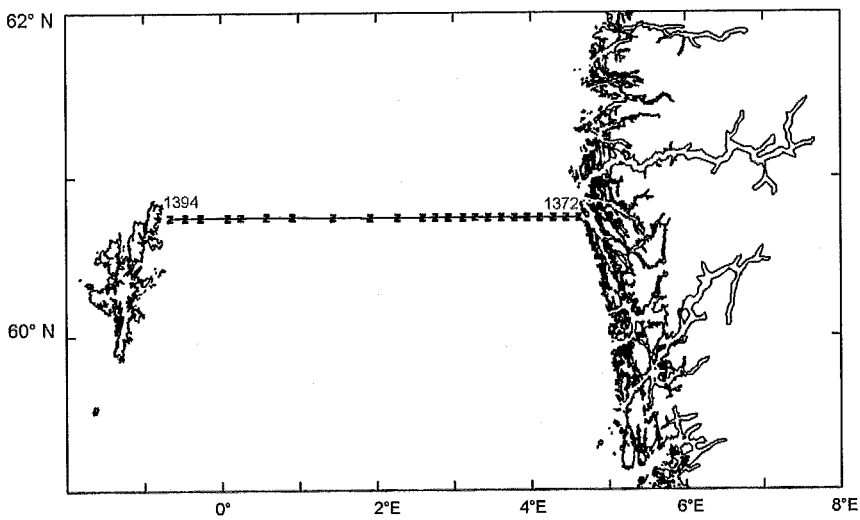
Cruise no 2007622  
 "Håkon Mosby"  
 1-4 Nov 2007  
 Δ Pelagic trawl  
 st.no 158-200

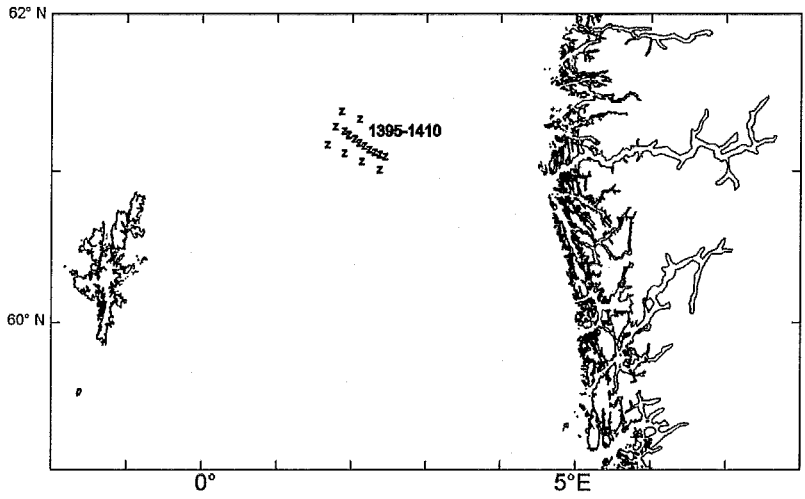


Cruise no 2007622  
 "Håkon Mosby"  
 1-4 Nov 2007  
 ○ Multisampler stations

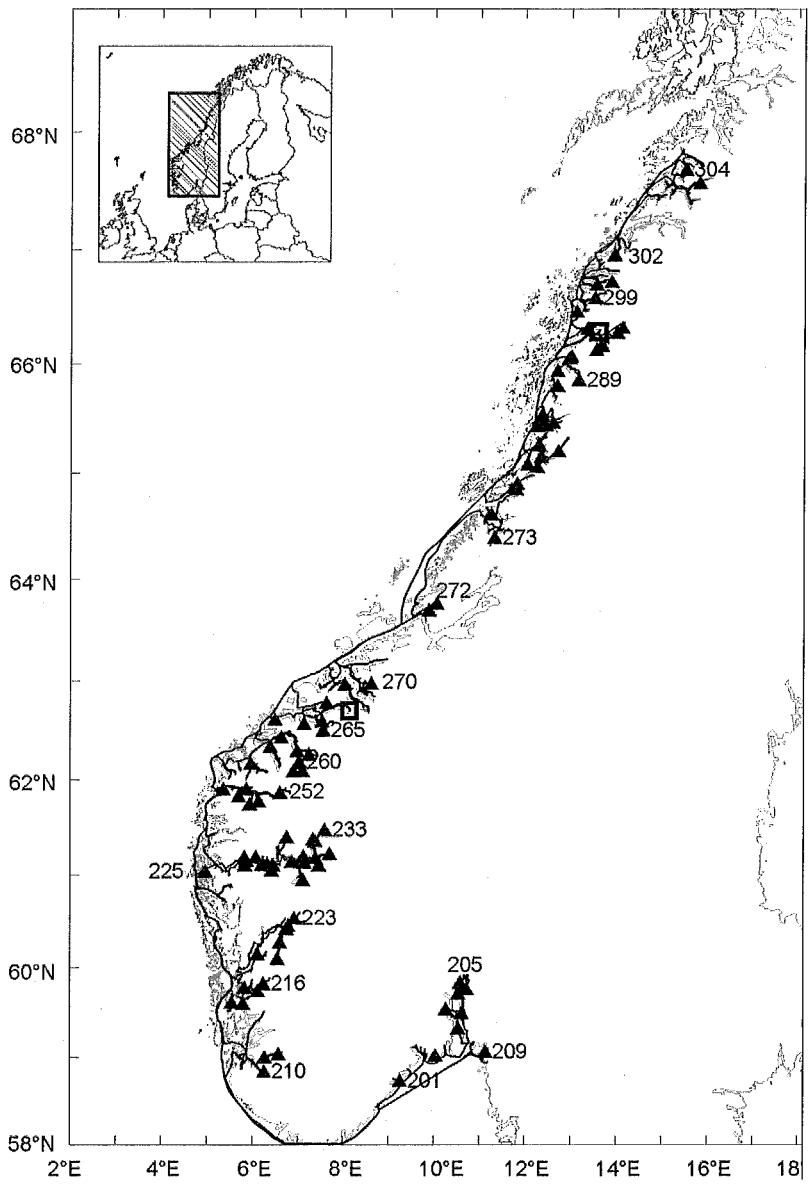


Cruise no 2007623  
 "Håkon Mosby"  
 7 Nov–16 Dec 2007  
 z CTD st.no 1261–1394  
 Standard section:  
 Fedje–Shetland  
 st.no 1372–1394  
 ○ Plankton st. (WP-II-net)

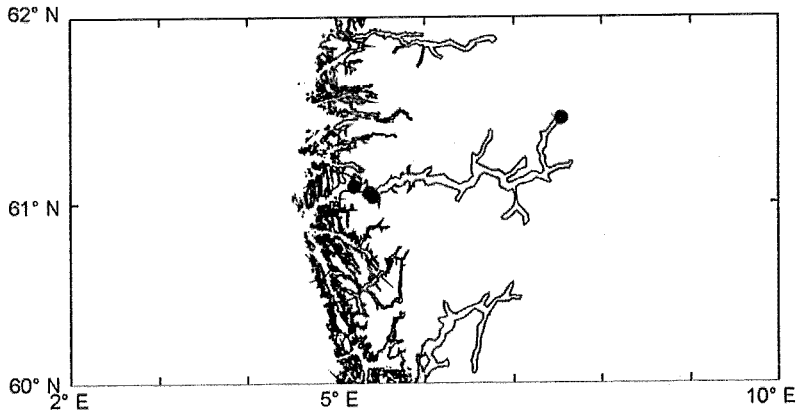




Cruise no 2007623 (last part)  
 "Håkon Mosby"  
 7 Nov–16 Dec 2007  
 z CTD st.no 1395–1410

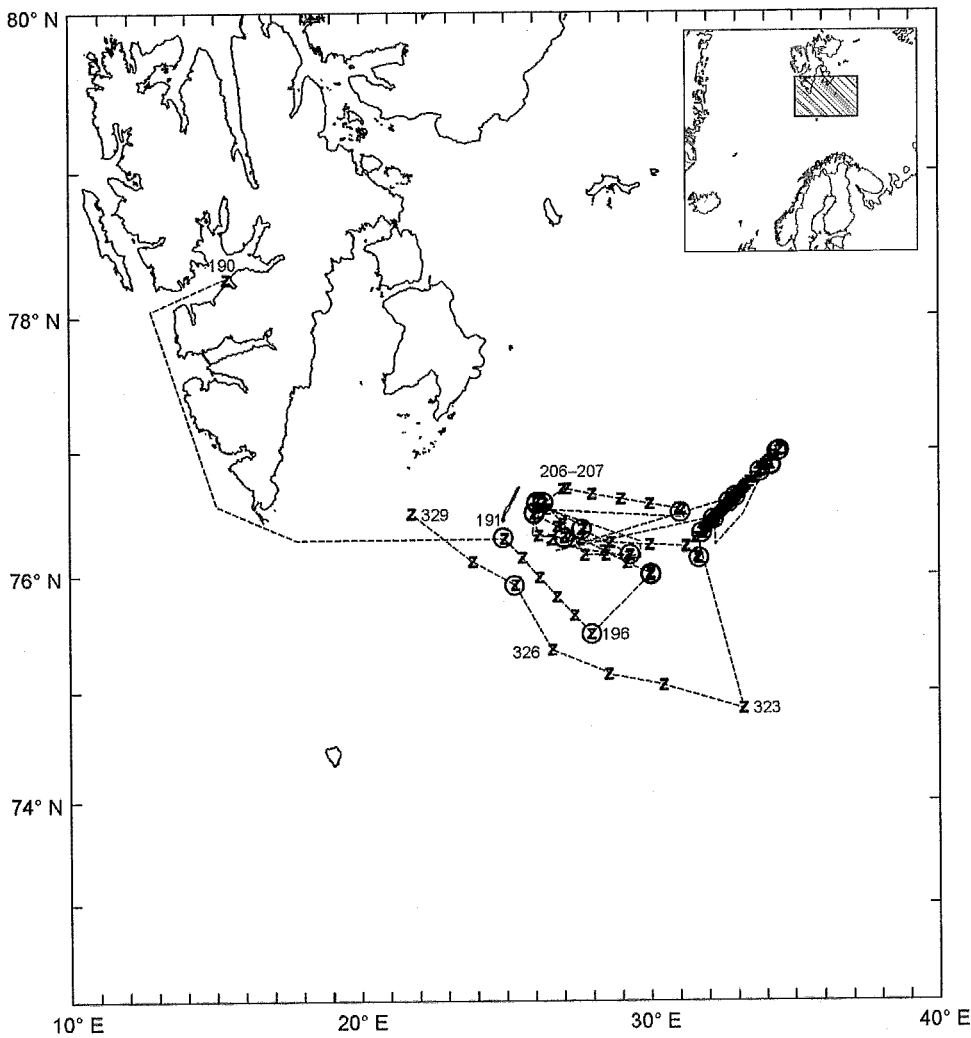


Cruise no 2007623  
 "Håkon Mosby"  
 7 Nov–16 Dec 2007  
 Trawl st.no 201–304  
 ▲ Pelagic trawl  
 □ Bottom trawl



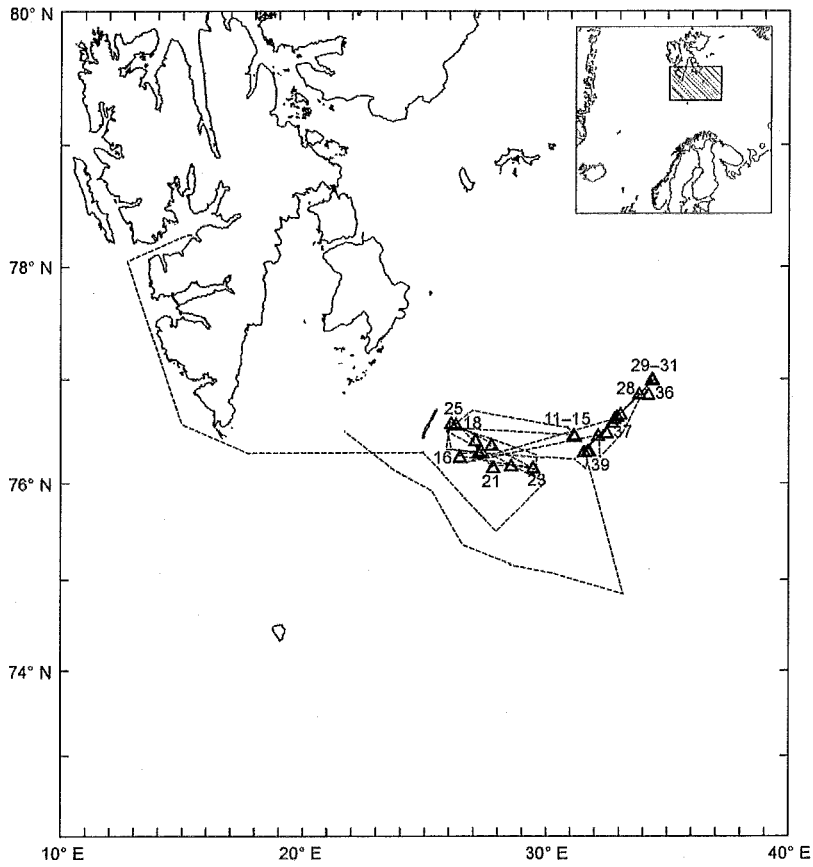
Cruise no 2007623  
 "Håkon Mosby"  
 7 Nov-16 Dec 2007  
 ● Grab stations

#### 4.4 Jan Mayen

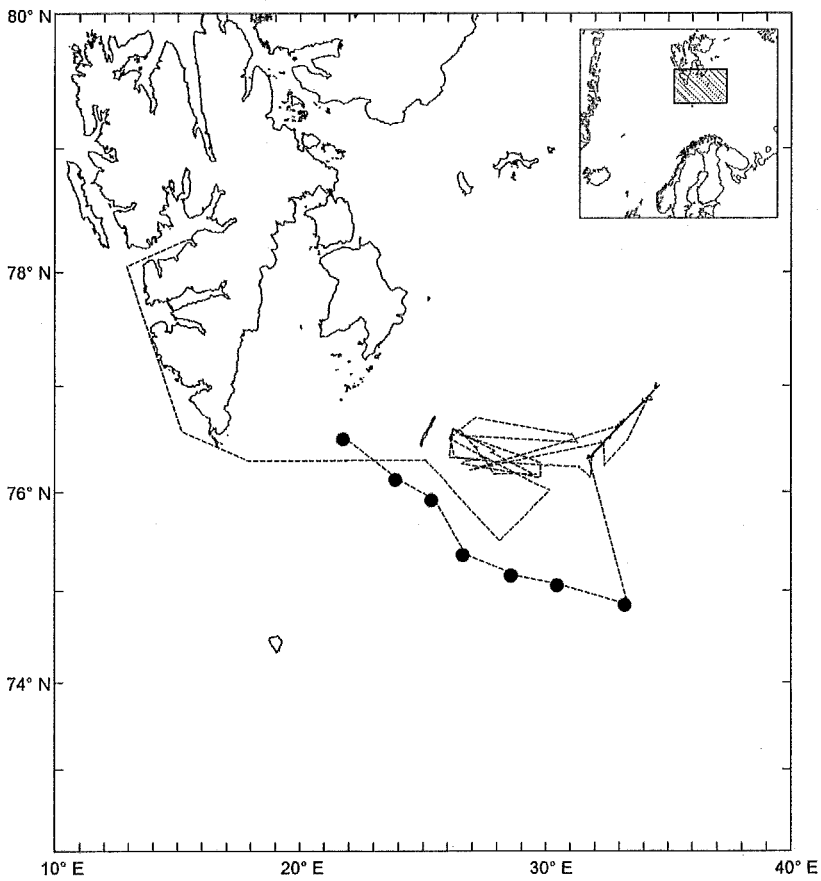


Cruise no 2007701  
 "Jan Mayen"  
 31 July-18 Aug 2007  
 z CTD st.no 190-329  
 ○ Plankton stations

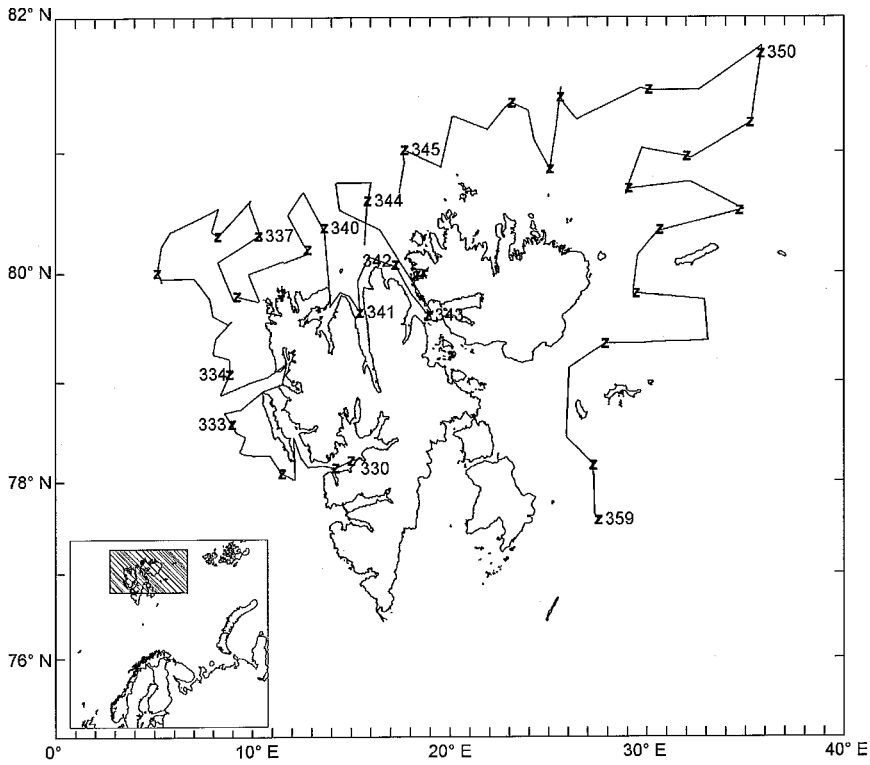




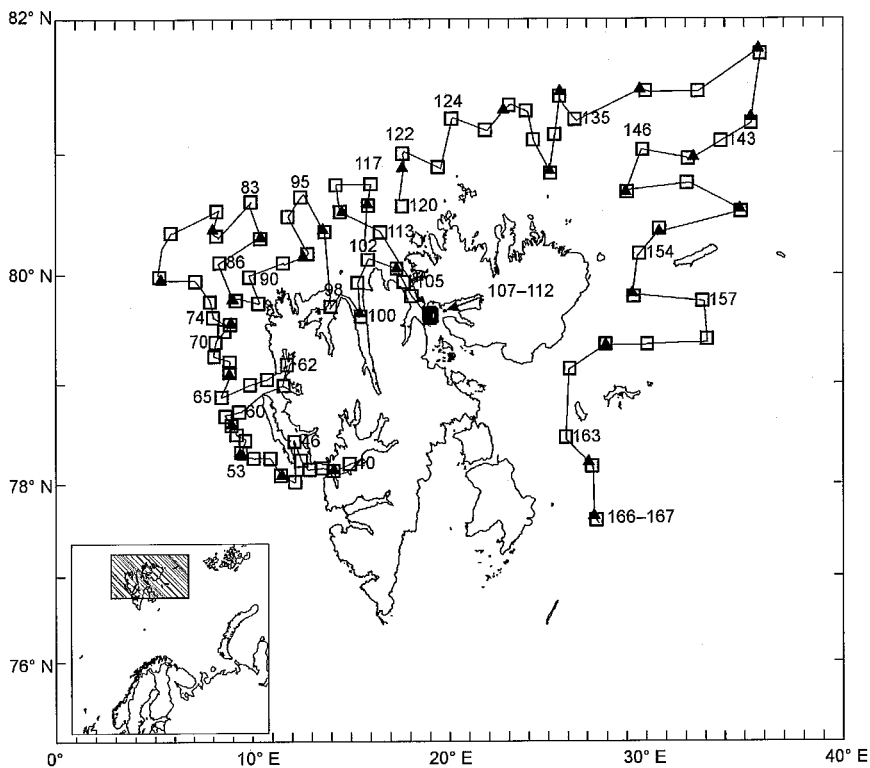
Cruise no 2007701  
 "Jan Mayen"  
 31 July-18 Aug 2007  
 Δ Pelagic trawl st.no 11-39



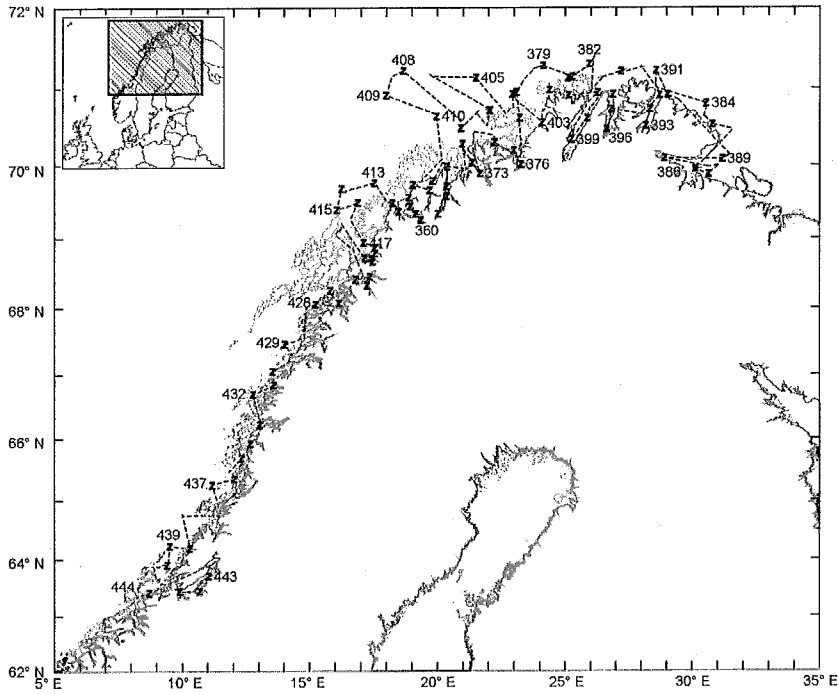
Cruise no 2007701  
 "Jan Mayen"  
 31 July-18 Aug 2007  
 ● Grab stations



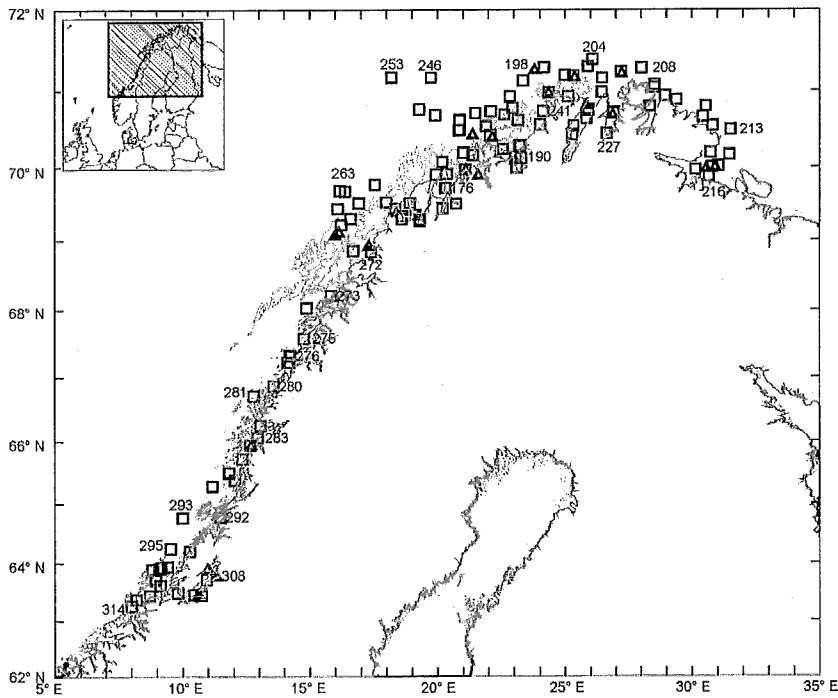
Cruise no 2007702  
 "Jan Mayen"  
 10-27 Sep 2007  
 z CTD st.no 330-359



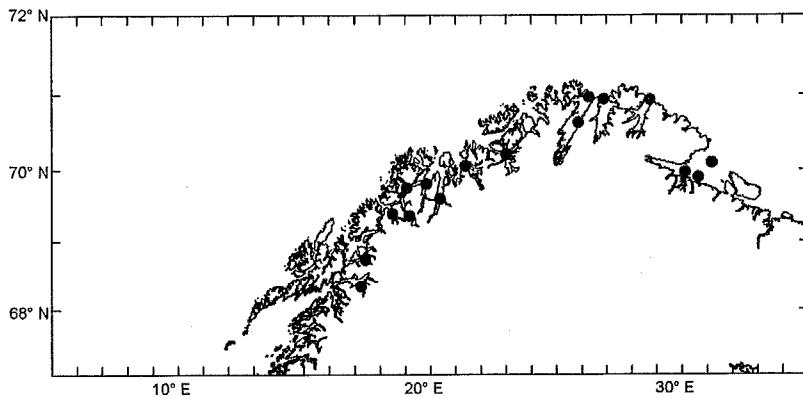
Cruise no 2007702  
 "Jan Mayen"  
 10-27 Sep 2007  
 Trawl st.no 40-167  
 □ Bottom trawl  
 ▲ Pelagic trawl



Cruise no 2007703  
 "Jan Mayen"  
 23 Oct–24 Nov 2007  
 z CTD st.no 360–444



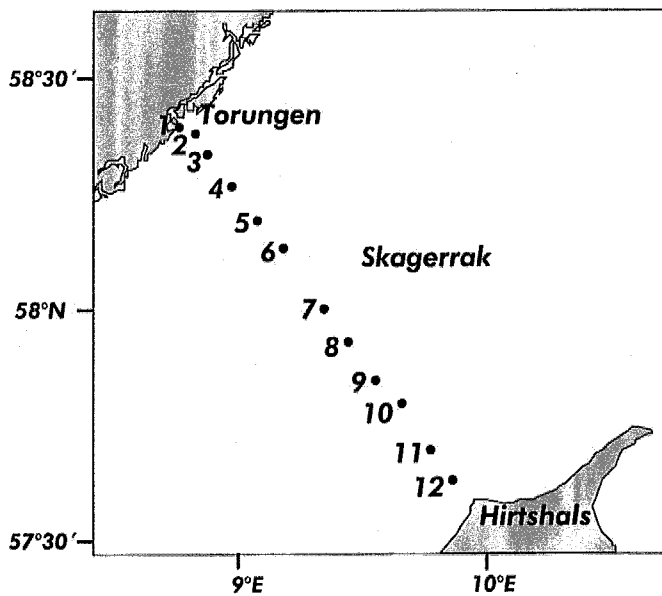
Cruise no 2007703  
 "Jan Mayen"  
 23 Oct–24 Nov 2007  
 Trawl st.no 168–314  
 □ Bottom trawl  
 △ Pelagic trawl



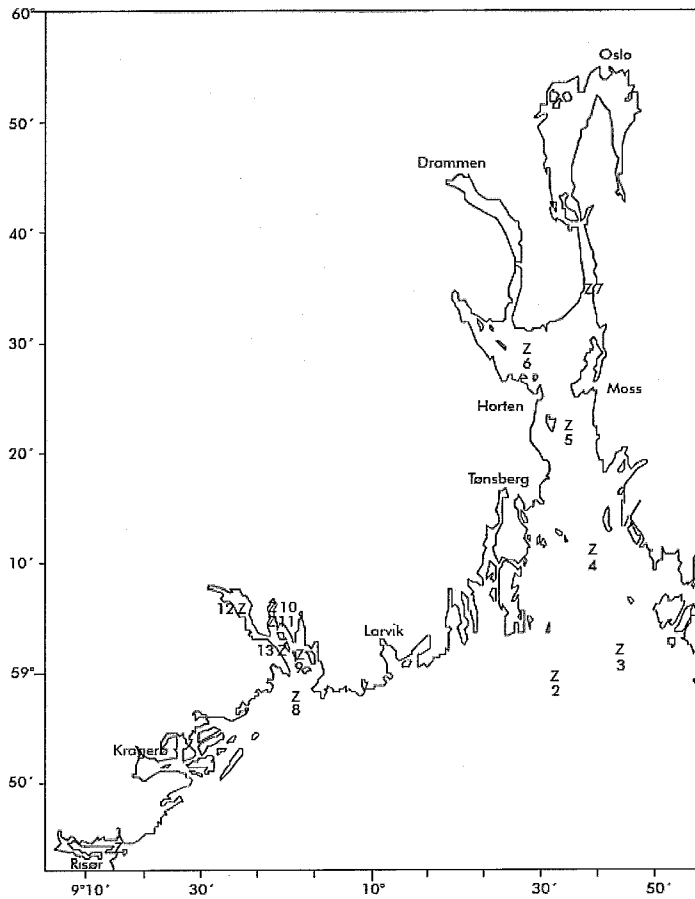
Cruise no 2007703  
 "Jan Mayen"  
 23 Oct–24 Nov 2007  
 ● Grab stations

#### 4.5 G.M. Dannevig

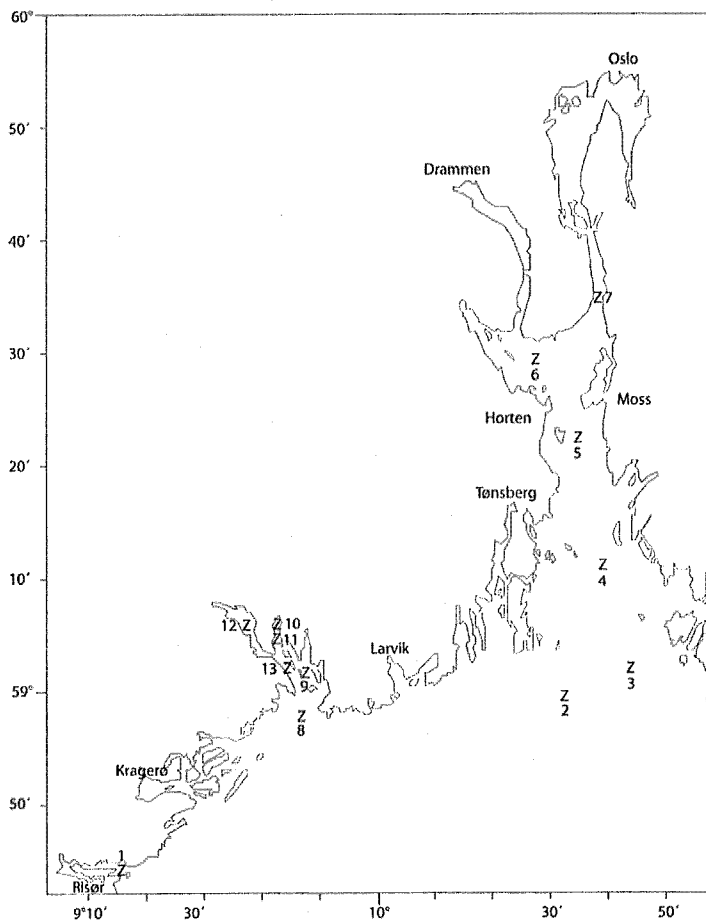
##### Standard section Torungen–Hirtshals 2007.



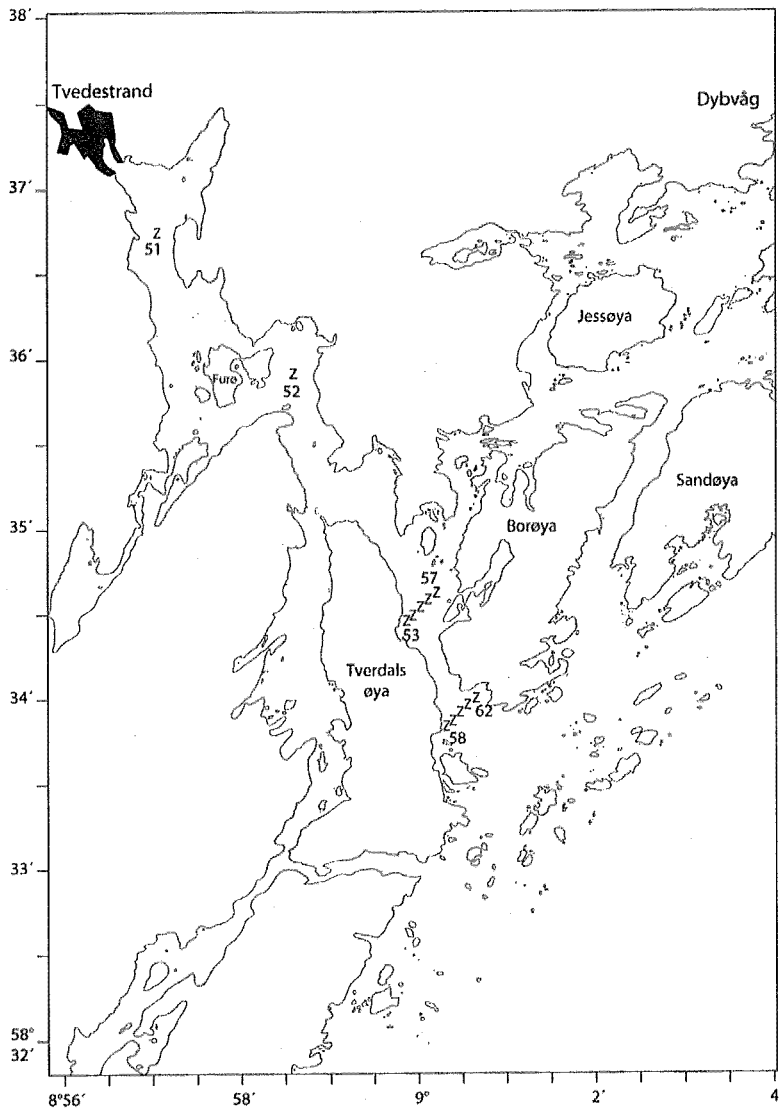
Month	Cruise no	CTD st. no	Comment
January	2007303	14–25	
February	2007304	26–37	
March	2007310	85–96	
April	2007312	110–121	
May	2007312	226–237	
June	2007316	238–249	
July	2007319	265–276	
August	2007320	278–289	
September	2007322	305–316	
October	2007324	375–386	
November	2007325	-	Cancelled
December	2007328	414–425	



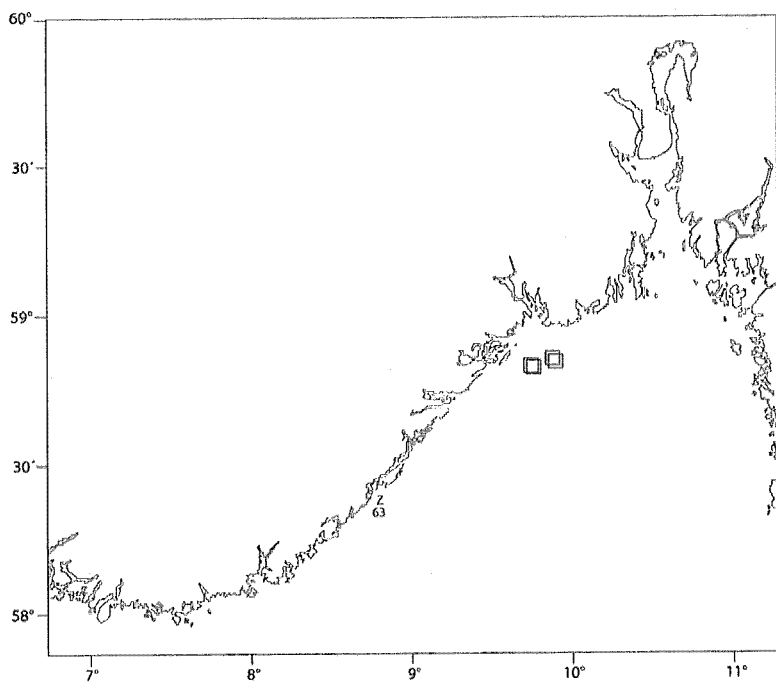
Cruise no 2007302  
 "G. M. Dannevig"  
 12-15 Jan 2007  
 z CTD st.no 1-13



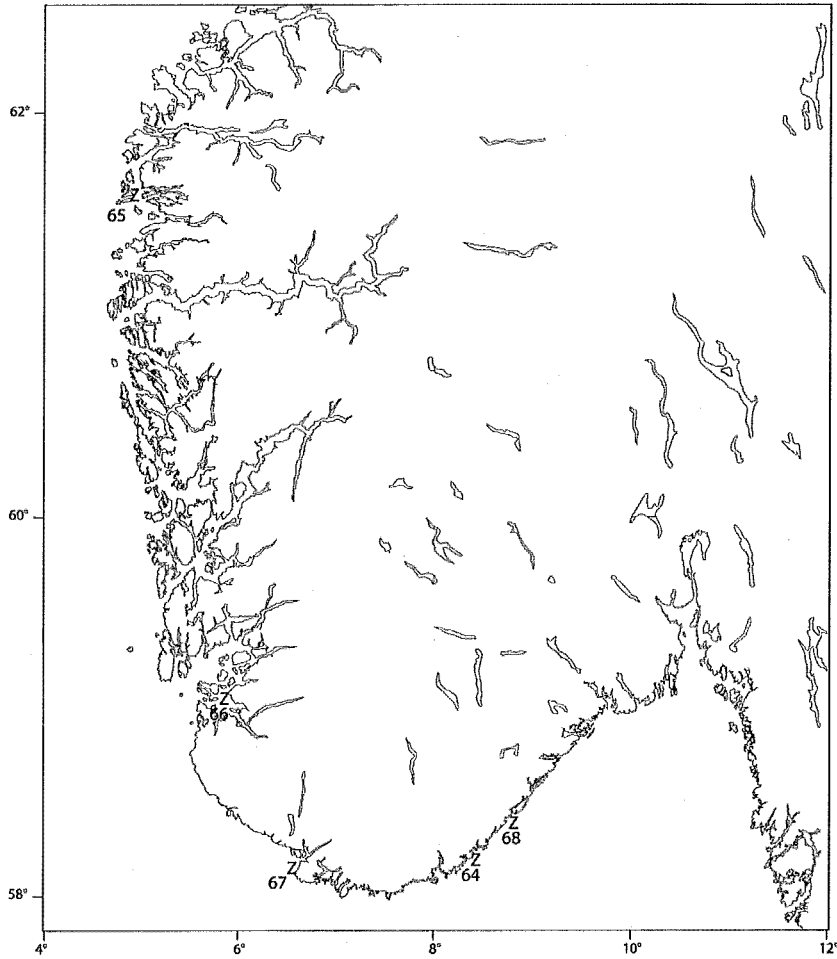
Cruise no 2007305  
 "G.M. Dannevig"  
 7-9 Feb 2007  
 z CTD st.no 38-50



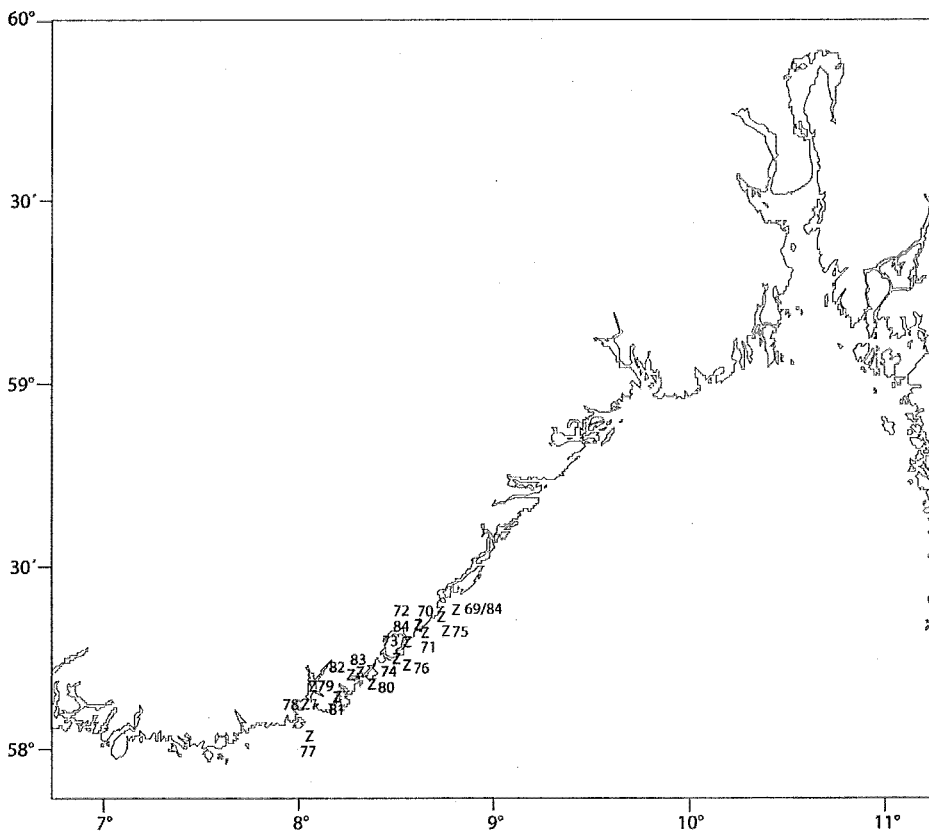
Cruise no 2007306  
 "G.M. Dannevig"  
 11-12 Feb 2007  
 z CTD st.no 51-62



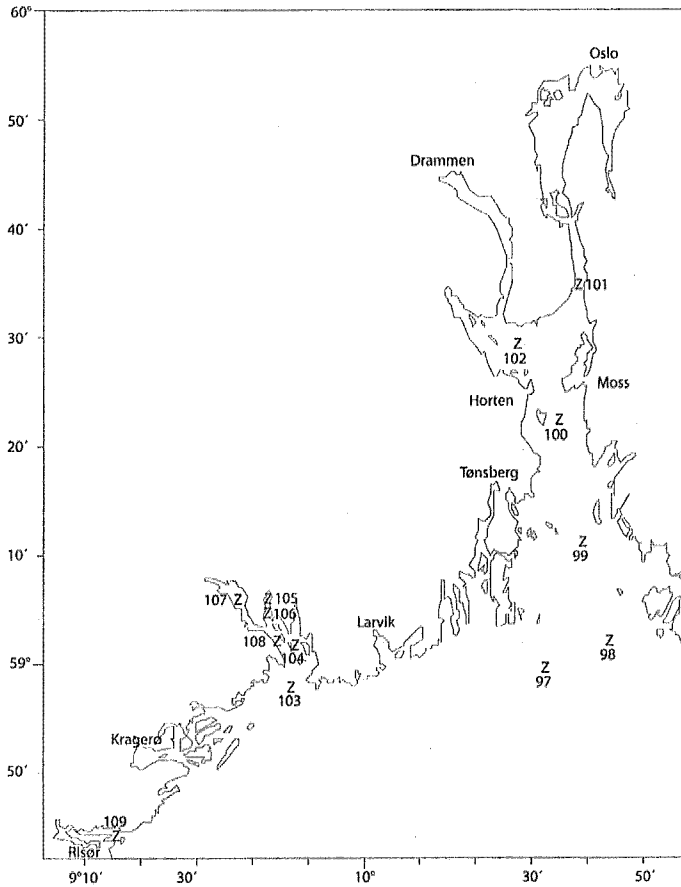
Cruise no 2007307  
 "G.M. Dannevig"  
 13-14 Feb 2007  
 z CTD st.no 63  
 Trawl st. no 1-4  
 □ Bottom trawl



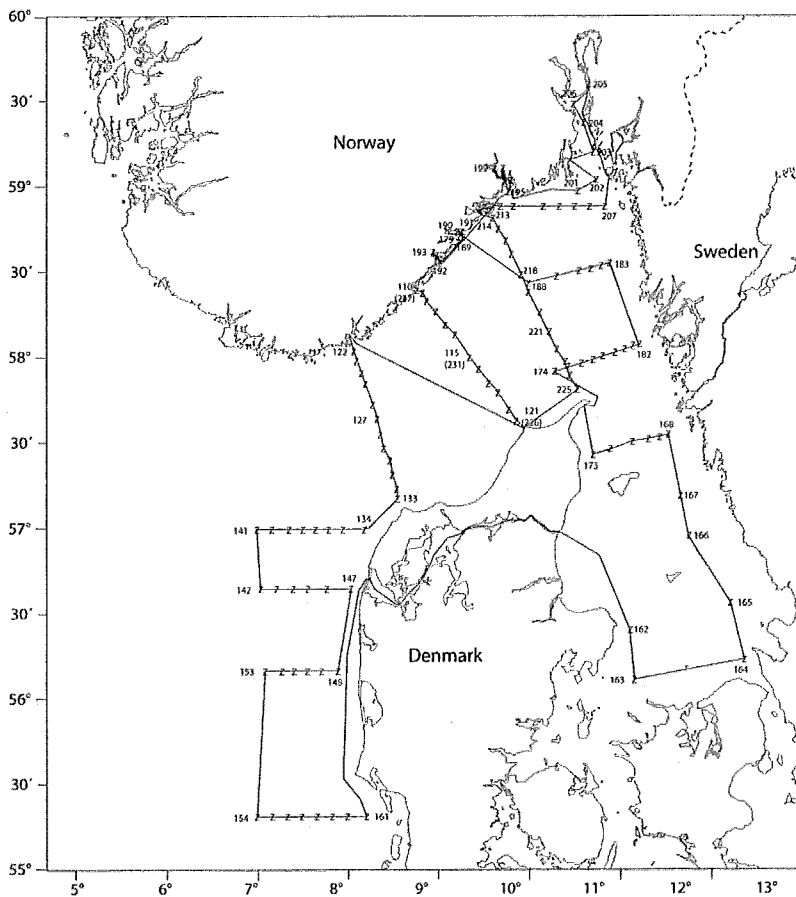
Cruise no 2007308  
 "G.M. Dannevig"  
 15 Feb-3 Mar  
 z CTD st.no 64-68



Cruise no 2007309  
 "G.M. Dannevig"  
 19-24 Mar 2007  
 z CTD st.no 69-84

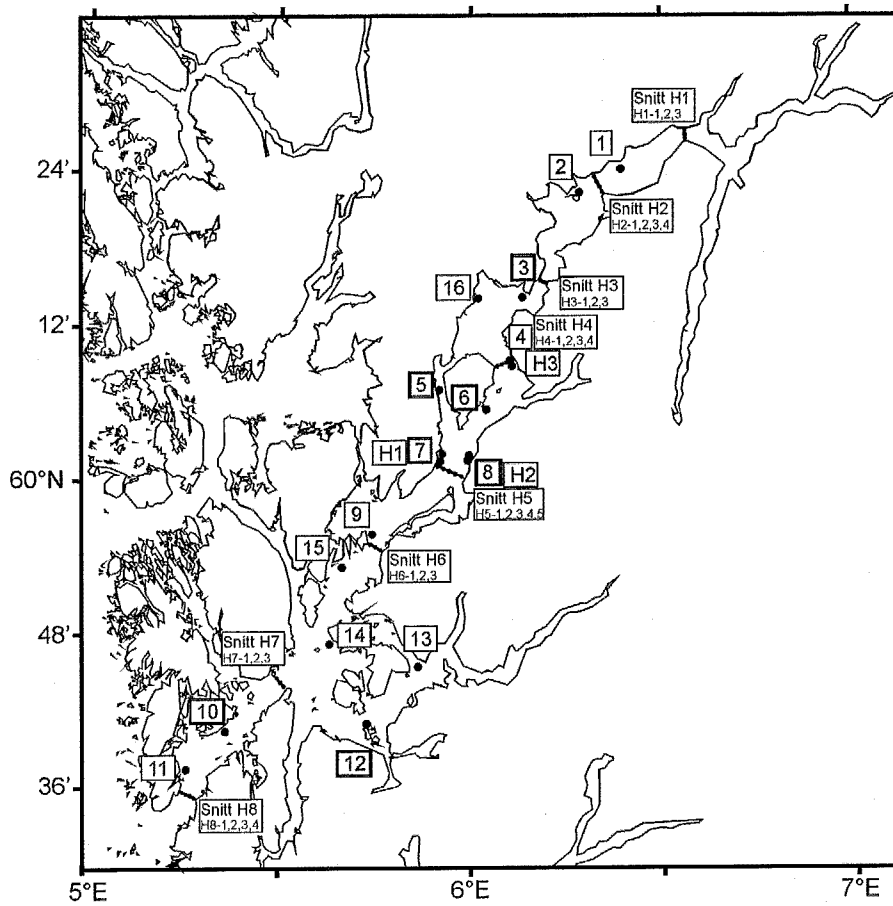


Cruise no 2007311  
 "G.M. Dannevig"  
 27-29 Mar 2007  
 z CTD st.no 97-109



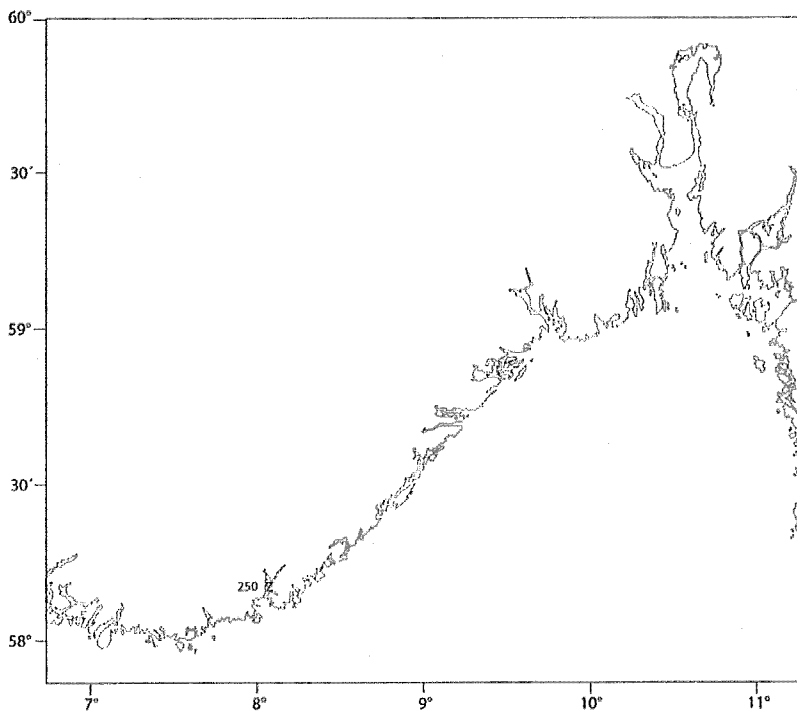
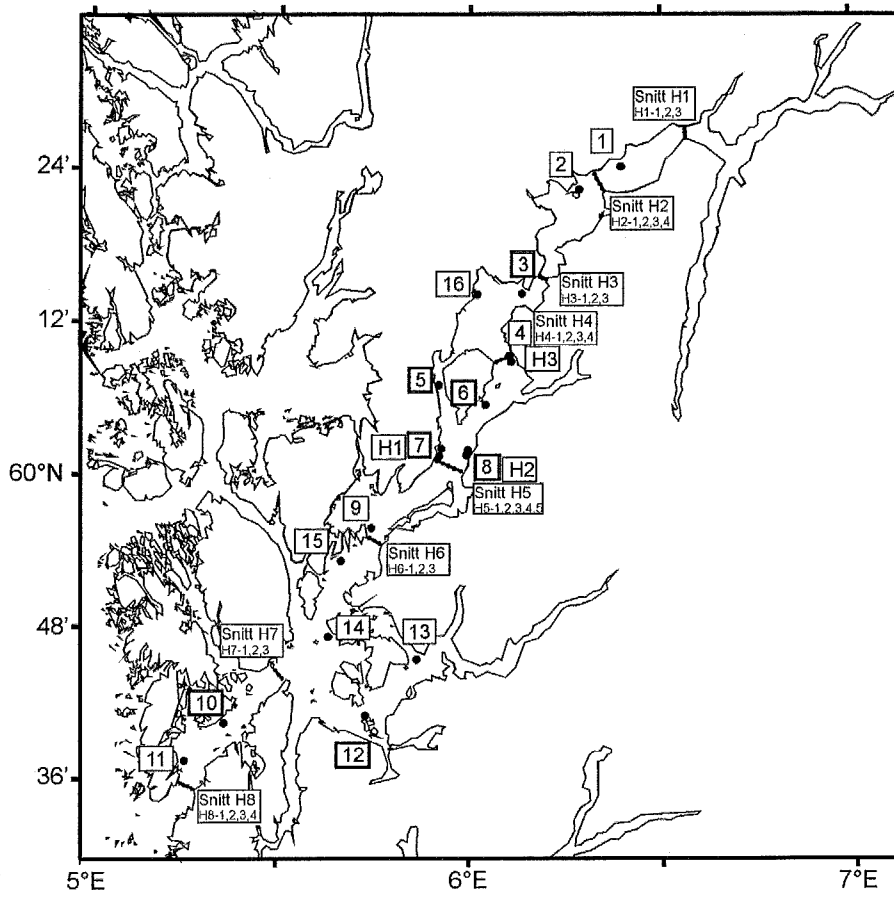
Cruise no 2007312  
 "G.M. Dannevig"  
 14 Apr-3 May 2007  
 z CTD st.no 110-237  
 Standard sections:  
 Oksøy-Hanstholm  
 st.no 122-133  
 Torungen-Hirtshals  
 st.no 110-121, 226-237  
 Jomfruland-Skagen  
 st.no 214-225  
 Jomfruland-Koster st.no 207-213  
 Torbjørnskjær st.no 202  
 Väderø st.no 183-188  
 Måeskjær st.no 174-182  
 Göteborg-Fredrikshavn  
 st.no 168-173  
 Kattegat st.no 162-167



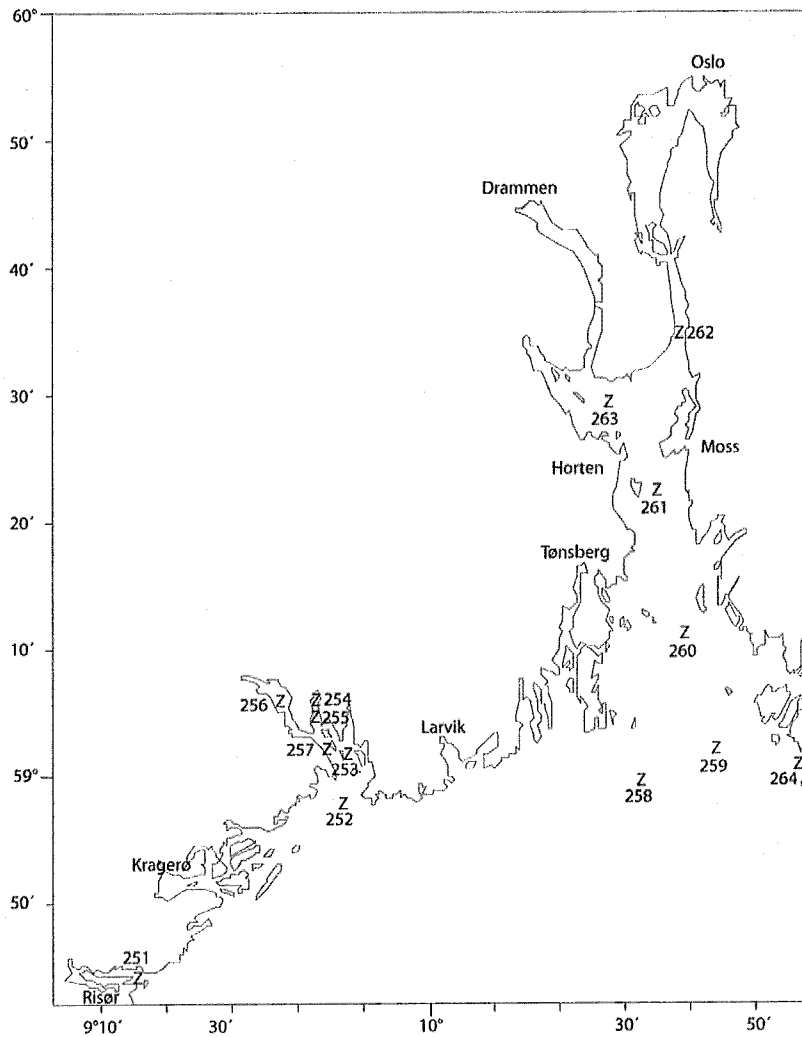


Cruise no 2007314  
 "G.M. Dannevig"  
 5-9 May 2007

Cruise no 2007315  
 "G.M. Dannevig"  
 8-14 June 2007

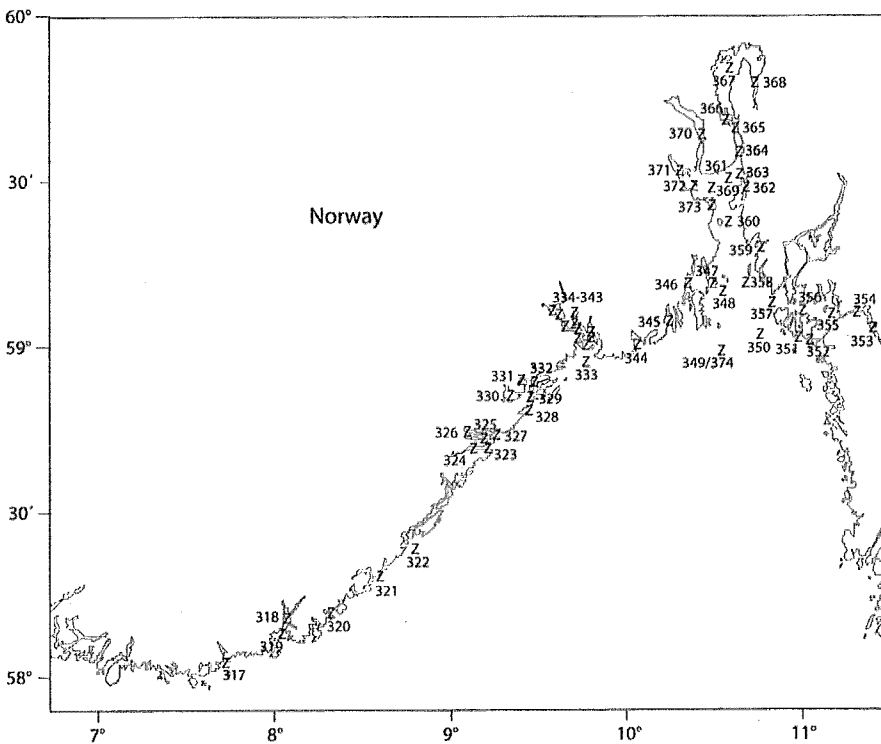
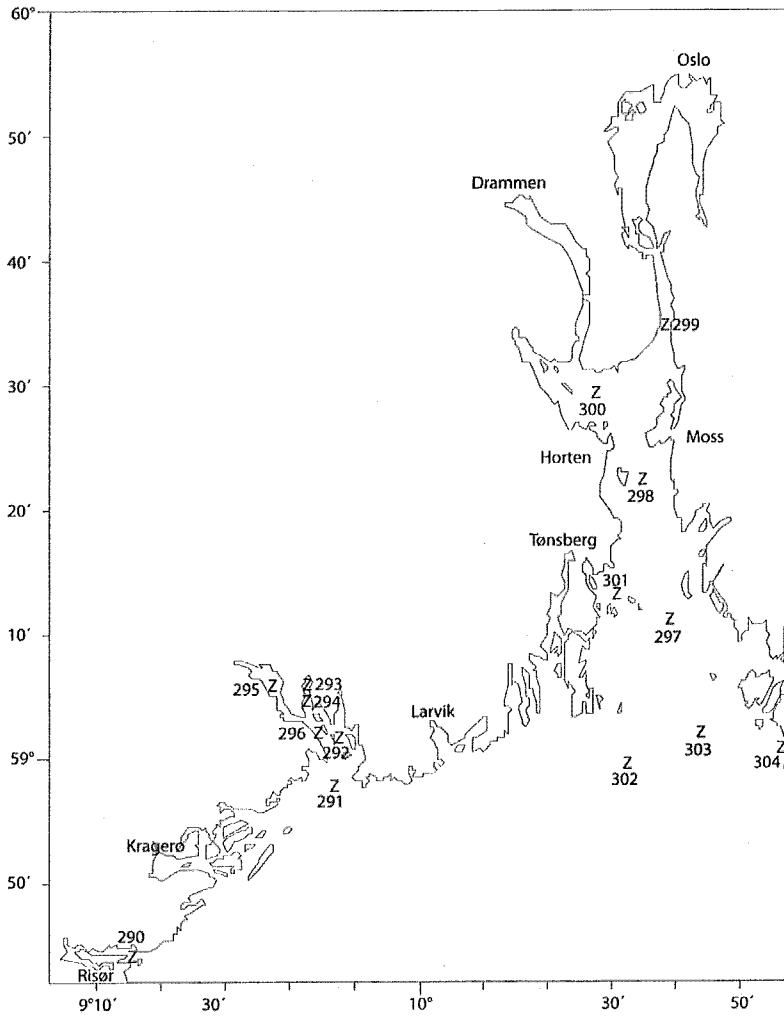


Cruise no 2007317  
 "G.M. Dannevig"  
 20-22 June 2007  
 Z CTD st.no 250

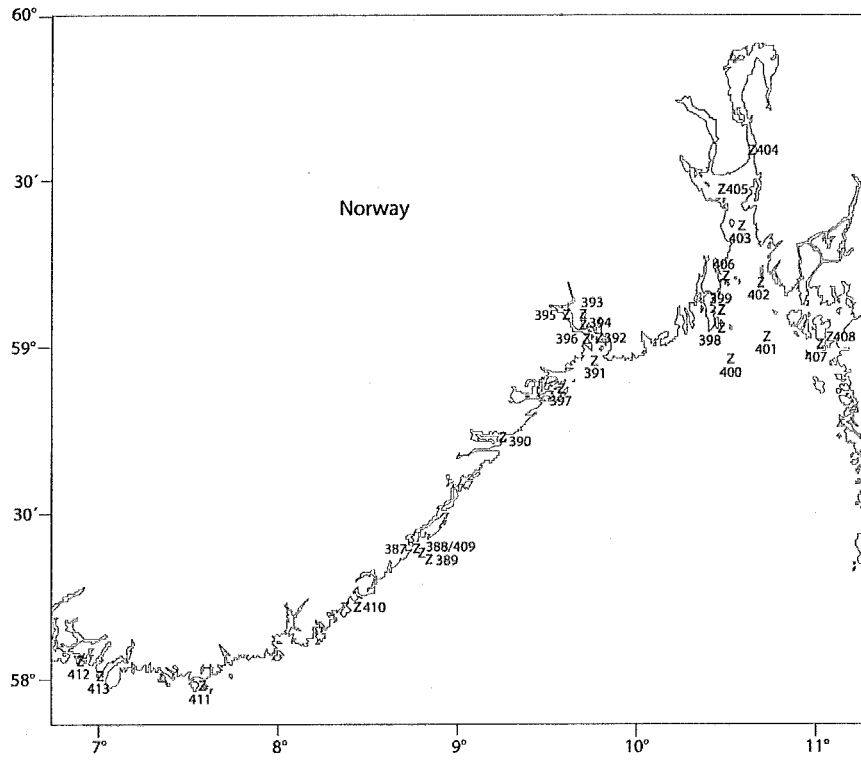


Cruise no 2007318  
 "G.M. Dannevig"  
 23-30 June 2007  
 z CTD st.no 251-264

Cruise no 2007321  
 "G.M. Dannevig"  
 20-30 Aug 2007  
 z CTD st.no 290-304



Cruise no 2007323  
 "G.M. Dannevig"  
 15 Sep-4 Oct 2007  
 z CTD st.no 317-374



Cruise no 2007326/327  
 "G.M. Dannevig"  
 3 Nov-3 Dec 2007  
 z CTD st.no 387-413