

Report on oceanographic cruises and data stations, 2006

Oversikt over tokt og stasjoner tatt i 2006

Vigdis Rong, Karen Gjertsen and Svein Erik Enersen



PROSJEKTRAPPORT



HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH

Nordnesgaten 50, Postboks 1870 Nordnes, 5817 BERGEN
Tlf. 55 23 85 00, Fax 55 23 85 31, www.imr.no

Tromsø	Flødevigen	Austevoll	Matre
9294 TROMSØ	4817 HIS	5392 STOREBØ	5984 MATREDAL
Tlf. 55 23 85 00	Tlf. 37 05 90 00	Tlf. 55 23 85 00	Tlf. 55 23 85 00
Fax 77 60 97 01	Fax 37 05 90 01	Fax 56 18 22 22	Fax 56 36 75 85

Rapport: FISKEN OG HAVET	Nr. - År 1 - 2007
Tittel (norsk/engelsk): Oversikt over tokt og stasjoner tatt i 2006 Report on oceanographic cruises and data stations, 2006	
Forfatter(e): Vigdis Rong, Karen Gjertsen and Svein Erik Enersen	

Distribusjon:
HI-prosjektnr.:
Oppdragsgiver(e):
Oppdragsgivers referanse:
Dato: 19.04.2007
Program:
Forskningsgruppe: Norsk Marint Datasenter
Antall sider totalt: 105

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", "Jan Mayen" og "G. M. Dannevig" i 2006. 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", "Jan Mayen" and "G. M. Dannevig" on behalf of the Institute of Marine Research and the University of Bergen during 2006. 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.

Emneord (norsk):

1. Kurskart
2. Stasjonskart
3. Toktmetadata

Subject heading (English):

1. Cruise track chart
2. Stations chart
3. Cruise meta data

Helge Rong
.....
prosjektleder

Helge Rong
.....
forskningsgruppeleder

TABLE OF CONTENTS

1 CRUISES 2006	2
1.1 G. O. Sars.....	2
1.2 Johan Hjort	4
1.3 Håkon Mosby	6
1.4 Jan Mayen	8
1.5 G. M. Dannevig	9
2 CHARTS – OVERVIEW	12
2.1 CTD stations 2006.....	12
2.2 Oceanographic sections	13
2.3 Fixed oceanographic stations	14
3 TABLES – OBSERVATIONS IN 2006.....	15
3.1 Standard oceanographic sections 2006	15
3.2 Other oceanographic sections 2006	16
3.3 Fixed oceanographic stations 2006.....	17
4 CHARTS FOR CRUISES 2006.....	18
4.1 G. O. Sars.....	18
4.2 Johan Hjort	40
4.3 Håkon Mosby	64
4.4 Jan Mayen	88
4.5 G. M. Dannevig	95

1 CRUISES 2006

1.1 G. O. Sars (Ship no 10)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006101	16 Jan	29 Jan	Testing LSSS, MS70 and PROMUS.	The coast from Bergen to Lofoten	1	3	18	
2006102	31 Jan	11 Feb	Final test of LSSS.	Barents Sea	-	-	19	No CTD data
2006103	11 Feb	10 Mar	Ecosystem survey, Barents Sea (G. O. Sars and Johan Hjort) and NIFES-project.	Barents Sea	4	67	20-21	
2006104	15 Mar	16 Apr	Blue whiting survey.	West of British Isles, the Faroe Islands	68	143	22-23	
2006105	18 Apr	19 Apr	Testing of ROV Bathysaurus.	Bergen	-	-	-	No CTD data
2006106	26 Apr	26 Apr	Test Calypso.	Bergen	-	-	24	No CTD data
2006107	27 Apr	30 May	Ecosystem survey Norwegian Sea. Radioactivity. Physical and biological investigations at the polar front.	Norwegian Sea	144	225	25-27	
2006108	1 Jun	18 Jun	Sampling from volcanic chimneys, Iceland/Greenland Sea.	The Greenland Sea	226	234	28	
2006109	19 Jun	8 Jul	NAVI-MOC (the VAMOC-project). Alterations of the circulation in the North Atlantic Ocean. Sediment samples and water samples from the Norwegian coast, the Faroe Islands/north, Iceland/south and south of Greenland.	Norwegian coast, Norwegian Sea, Irmingersjøen and Labradorsjøen.	235	247	29	
2006110	9 Jul	20 Jul	Seismic, Jan Mayen.	Jan Mayen	248	249	29	
2006111	21 Jul	5 Aug	Studies of C-cycle Iceland/Greenland Sea.	The Greenland Sea	250	320	30	
2006112	6 Aug	16 Aug	Coral reef and sponges.	Vestfjorden-Finmark	321	322	31	

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006113	18 Aug	29 Sep	Ecosystem survey, Barents Sea (G. O. Sars, Johan Hjort and Jan Mayen). NIFES-project. MARBANK-project. King crab.	Barents Sea	323	420	32-33	
2006114	1 Oct	11 Nov	Method survey – measurements of density. Testing PROMUS and MS 70. Acoustic estimate of Atlantic herring. Method survey – acoustics.	Barents Sea	421	469	34-36	
2006115	12 Nov	15 Nov	Transit Tromsø–Bodø. Gimsøy section.	Lofoten	470	480	37	
2006116	16 Nov	25 Nov	Educational cruise.	Bodø–Bergen	481	489	38	
2006117	26 Nov	2 Dec	Calypso corer survey Norwegian margin. Shallow seismic.	Norwegian Sea, North Sea	-	-	-	No CTD data
2006118	5 Dec	8 Dec	Sponges.	Bergen	490	492	39	

1.2 Johan Hjort
(Ship no 12)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006201	18 Jan	4 Feb	Hydrography, nutrients, phytoplankton and zooplankton on the oceanographic sections.	Norwegian Sea, Barents Sea	1	64	40	
2006202	6 Feb	10 Feb	Inter calibration of trawls (G. O. Sars and Johan Hjort).	Barents Sea	65	65	41	
2006203	11 Feb	15 Mar	Ecosystem survey, Barents Sea (G. O. Sars and Johan Hjort).	Barents Sea	66	165	42–43	
2006204	17 Mar	6 Apr	Cod survey.	Lofoten	166	325	44–45	
2006205	7 Apr	17 Apr	Transit Harstad–Bjørnøya–W–Gimsøy–Bergen.	Norwegian Sea	326	355	46	
2006206	18 Apr	21 Apr	Educational cruise.	Norwegian coast and Sognefjorden/Lusterfjorden	356	375	47	
2006207	24 Apr	19 May	Surveillance of plankton.	North Sea/Skagerrak	376	486	48–50	
2006208	23 May	11 Jun	Distribution of capelin larvae.	Barents Sea	487	523	51	
2006209	16 Jun	24 Jun	Replacement of rigs. ADCP.	Barents Sea	524	562	52	
2006210	28 Jun	4 Aug	International Bottom Trawl Survey (IBTS) 3. quarter. NIFES-project. Acoustic survey herring/sprat. Density measurements of 0-group sandeel.	North Sea	563	729	53–55	
2006211	14 Aug	19 Sep	Ecosystem survey, Barents Sea (G. O. Sars, Johan Hjort and Jan Mayen).	Barents Sea, Norwegian Sea	730	879	56–58	
2006212	2 Oct	20 Oct	Acoustics and distribution – mackerel.	North Sea	880	989	59	
2006213	24 Oct	21 Nov	Ecosystem survey, the Norwegian coast (Johan Hjort and Jan Mayen). NIFES-project.	Norwegian continental shelf from Stadt to Nordkapp	990	1049	60–61	

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006214	22 Nov	25 Nov	Svinøy section.	The coast outside Stadt	1050	1064	62	
2006215	26 Nov	3 Dec	Oceanographic sections North Sea.	North Sea	1065	1133	63	
2006216	5 Dec	12 Dec	Testing of MESSOR and MUST-equipment.	Western Norway	-	-	-	No CTD data

1.3 Håkon Mosby (Ship no 1)

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006601	10 Jan	31 Jan	International Bottom Trawl Survey (IBTS) 1. quarter. NIFES-project.	North Sea, Skagerrak, Kattegat	1	65	64-66	
2006602	2 Feb	15 Feb	Shrimp survey.	Skagerrak/Norwegian Trench, North Sea	66	145	67	
2006603	16 Feb	28 Feb	Spawning Atlantic herring survey.	Lofoten-Karnøy	146	210	68-69	
2006604	3 Mar	12 Mar	Educational cruise. Bottom sediments.	Western Norway, fjords (Lysefjorden, Hardangerfjorden and Korsfjorden)	211	281	70	
2006605	13 Mar	17 Mar	Bathymetric seismic, testing of equipment.	Bergen	-	-	-	No CTD data
2006606	18 Mar	24 Mar	Surveillance of the Gulf Stream in the Svinøy section.	Svinøy section	-	-	-	No CTD data
2006607	25 Mar	10 Apr	Herring larva survey.	Norwegian coast, Troms	282	450	71	
2006608	10 Apr	15 Apr	The Svinøy section, rig deployment.	Svinøy section	451	459	72	
2006609	18 Apr	24 Apr	Educational cruise. Fishery ecology.	North Sea	460	483	73	
2006610	25 Apr	26 Apr	Educational cruise.	Fjords near Bergen	484	497	74	
2006611	4 May	22 May	Oceanographic sections: Svinøy, Gimsøy, Bjørnøya-W. Recovery of current measurement rig. Fugløya-Bjørnøya section.	Norwegian Sea	498	574	75	
2006612	24 May	21 Jun	Bottom investigations.	Barents Sea and the Norwegian coast (parts of Tromsøflaket and the area close to Sørøya)	575	612	76	
2006613	26 Jun	1 Jul	Paleo climate.	Faroe Islands	613	618	77	

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006614	20 Jul	28 Jul	CTD, nutrients, phyto- and zooplankton on the sections Svinøy and Gimsøy. Norwegian television (NRK) made a film from a short period of the cruise.	Norwegian Sea	622	650	78	Stations no 619–621 are missing.
2006615	1 Aug	18 Aug	Recovery of rig – studies regarding mixing of water masses.	Storfjorden, Svalbard	651	786	79	
2006616	20 Aug	12 Sep	Svalex.	Svalbard	-	-	-	
2006617	14 Sep	25 Sep	Educational cruise Polar Ocean Climate.	Svalbard	787	1001	80	
2006618	1 Oct	6 Oct	Surveillance of the Gulf Stream in the Svinøy section.	Svinøy section	1002	1003	81	
2006619	7 Oct	8 Oct	Bathymetric seismic, testing of equipment.	Bergen	-	-	-	Cancelled
2006620	9 Oct	13 Oct	Educational cruise.	Western Norway	1004	1009	82–83	
2006621	14 Oct	20 Oct	Educational cruise.	North Sea	1010	1040	84	
2006622	29 Oct	4 Nov	Mesopelagic processes.	Western Norway	1041	1051	85	
2006623	7 Nov	9 Dec	Ecosystem survey, the Norwegian coast. NIFES-project. Nutrients, chlorophyll and oxygen in the fjords.	Swedish boarder–Lofoten	1052	1168	86–87	

**1.4 Jan Mayen
(Ship no 19)**

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006701	20 May	8 Jun	Greenland seal ecology.	Barents Sea	210	278	88–89	
2006702	7 Aug	16 Aug	Ecosystem survey (G. O. Sars, Johan Hjort and Jan Mayen).	Barents Sea	288	300	90–91	
2006703	17 Aug	25 Aug	Queen scallop, The University Centre in Svalbard (UNIS).	Barents Sea	-	-	-	
2006704	11 Sep	29 Sep	Ecosystem survey (G. O. Sars, Johan Hjort and Jan Mayen).	Barents Sea	301	322	92–93	
2006705	23 Oct	21 Nov	Ecosystem survey, Norwegian coast (Johan Hjort and Jan Mayen).	Varanger–Møre	-	-	94	

1.5 G. M. Dannevig
(Ship no 16)

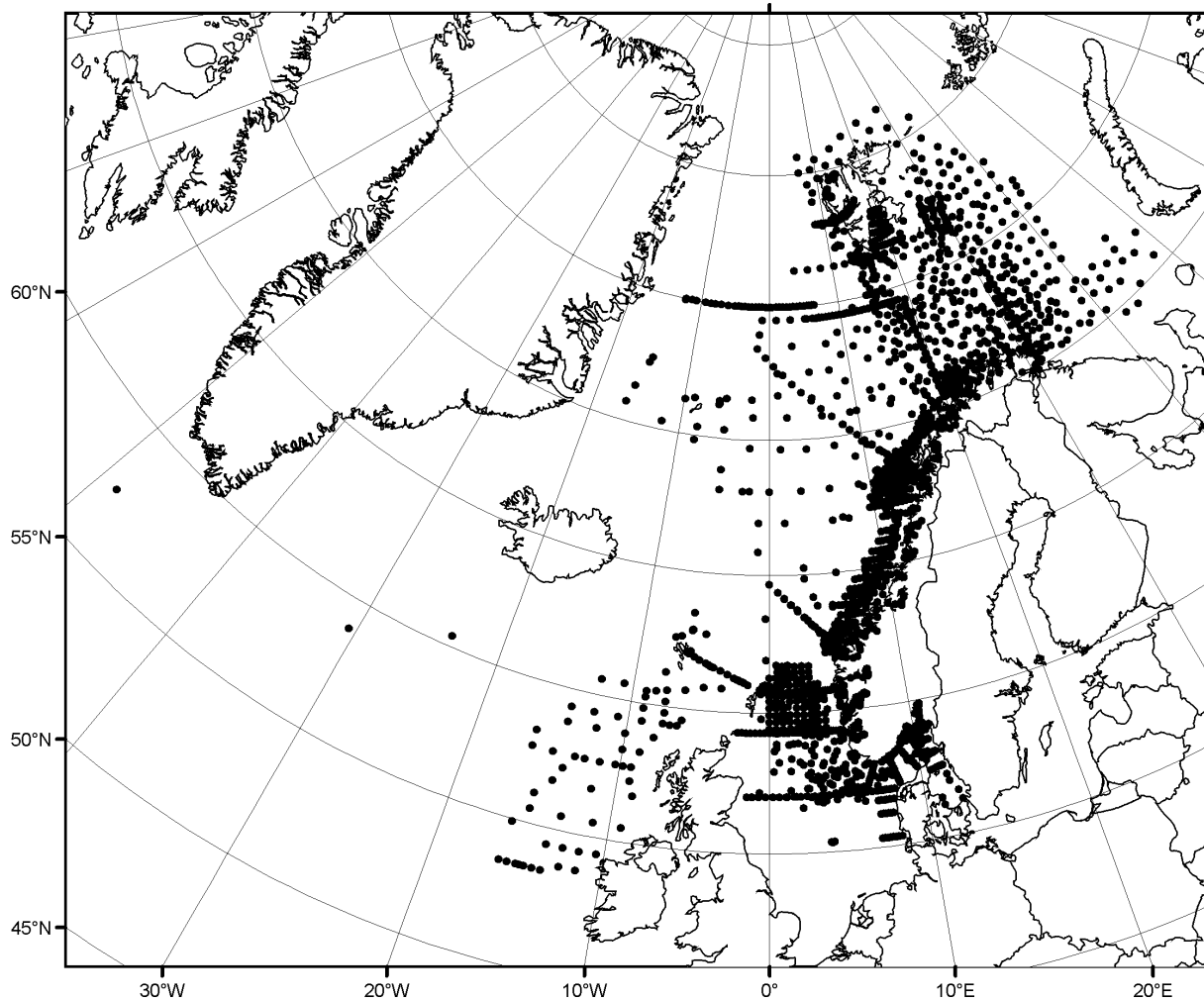
CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006301	16 Jan	16 Jan	Hydrographic standard section "Torungen–Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	1	12	95	
2006305	9 Feb	10 Feb	Long-term environmental monitoring in the fjords along the Norwegian coast.	Norwegian coast of Skagerrak	13	26	96	
2006304	11 Feb	12 Feb	Hydrographic standard section "Torungen–Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	27	38	95	
2006302	11 Feb	12 Feb	Shrimptrawl calibration (G. M. Dannevig and H. Mosby).	Skagerrak			-	Cancelled
2006303	13 Feb	14 Feb	Deployment of acoustic Doppler meters.	Tvedestrandsfjorden	39	52	97	
2006306	18 Feb	27 Feb	Cod BioBank, collection of parent cod/genetic samples.	Western coast of Norway				
2006308	28 Feb	2 Mar	Long-term environmental monitoring in the fjords along the Norwegian coast.	Norwegian coast of Skagerrak	53	66	98	
2006307	3 Mar	4 Mar	Hydrographic standard section "Torungen–Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	67	78	95	
2006329	22 Mar	23 Mar	Habitat mapping (spawning grounds). Long-term environmental monitoring on a nearshore station outside Arendal.	Norwegian coast of Skagerrak. Lillesand–Grimstad.	79	86	98	
2006309	24 Mar	27 Mar	Cod egg retention mechanisms.	Tvedestrandsfjorden	87	95	99	
2006310	31 Mar	31 Mar	Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	96	96	99	
2006311							-	Cancelled

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006312	18 Apr	7 May	Long-term environmental monitoring on a nearshore station outside Arendal and environmental investigation in the eastern North Sea, the Skagerrak and Kattegat after the spring bloom.	Eastern North Sea/Skagerrak/Kattegat	97	223	95, 100	
2006313	8 May	15 May	Research of fish assemblages/lobster in marine protected areas. Long-term environmental monitoring on a nearshore station outside Arendal an on a station in outer Oslofjord.	Skagerrak	224	227	101	
2006314	10 Jun	11 Jun	Long-term environmental monitoring in the fjords along the Norwegian coast.	Norwegian coast of Skagerrak	228	241	101	
2006315	12 Jun	13 Jun	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	242	253	95	
2006330	15 Jun	16 Jun	Habitat mapping.	Lillesand-Grimstad				
2006316	17 Jun	21 Jun	Interaction North Sea cod – coastal cod.	Norwegian coast of Skagerrak	254	259	102	
2006317	23 Jun	23 Jun	Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	260	260	102	
2006318	24 Jun	29 Jun	BIOSKAG I	Skagerrak				
2006319	30 Jun	1 Jul	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	261	272	95	
2006320	19 Aug	20 Aug	Hydrographic standard section "Torungen-Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	273	284	95	
2006321	21 Aug	31 Aug	Monitoring lobster/MPA. Long-term environmental monitoring on a nearshore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.	Norwegian coast of Skagerrak	285	301	103	

CRUISE NO	PERIOD OF CRUISES		PURPOSE	AREA	CTD NO		PAGE OF CHART	COMMENT
	Start	End			Start	End		
2006322	14 Sep	14 Sep	Hydrographic standard section "Torungen–Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	302	313	95	
2006323	16 Sep	7 Oct	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	314	358	104	
2006324	19 Oct	20 Oct	Hydrographic standard section "Torungen–Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.		359	370	95	
2006325	6 Nov	6 Nov	Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak	371	371	104	
2006326	7 Nov	3 Dec	Contaminants in seafood – Grenland. Fish community studies in marine protected area and resource studies in coastel cod.	Skagerrak, Norwegian coast of Skagerrak	372	380	105	
2006327	5 Dec	6 Dec	Hydrographic standard section "Torungen–Hirtshals", environmental investigation. Long-term environmental monitoring on a nearshore station outside Arendal.	Skagerrak			-	Cancelled
2006328	4 Dec	7 Dec	Long-term environmental monitoring in the fjords along the Norwegian coast and on two nearshore stations outside Arendal.	Skagerrak, Norwegian coast of Skagerrak	381	390	105	

2 CHARTS – OVERVIEW

2.1 CTD stations 2006



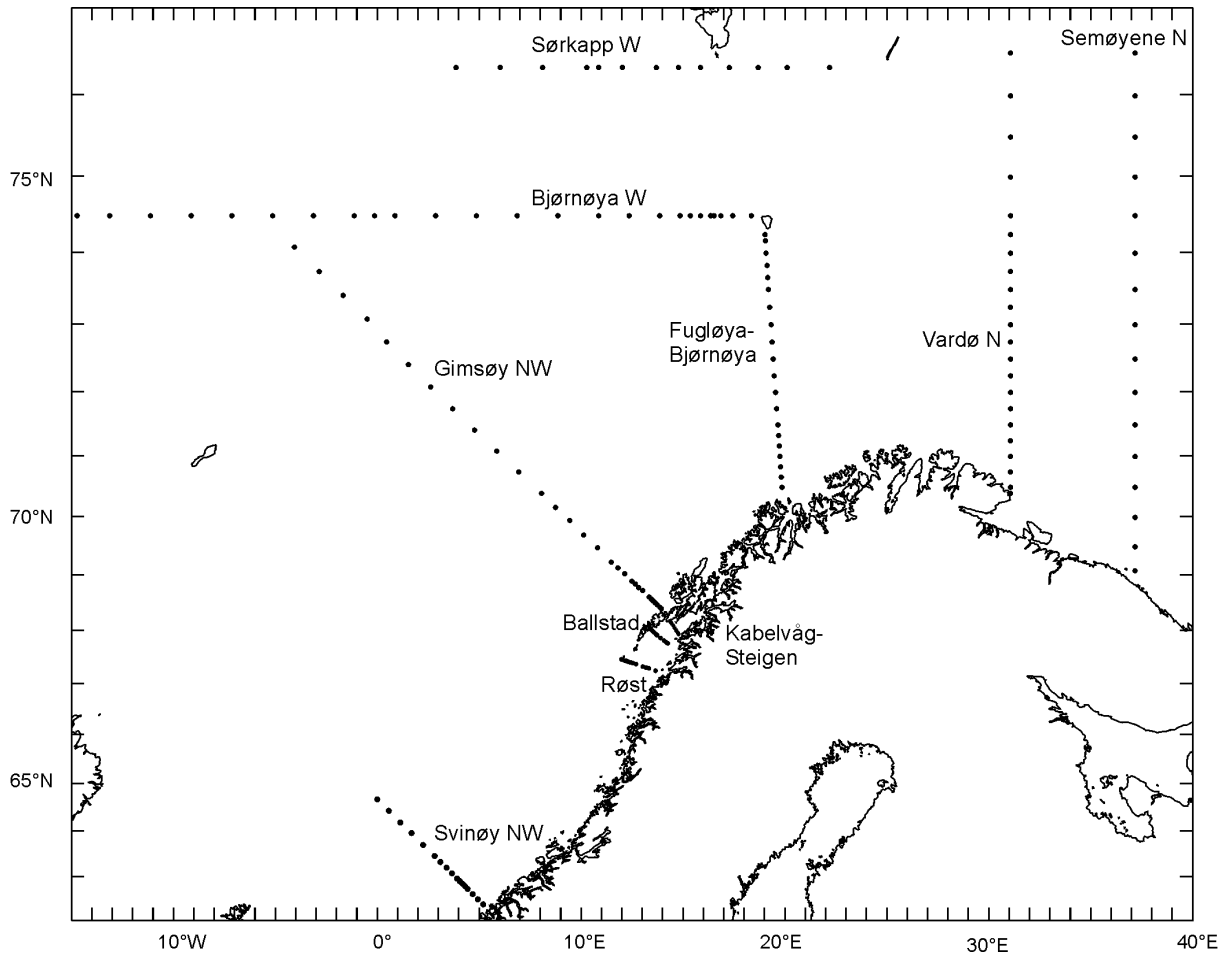
• CTD stations

Stations per ship:

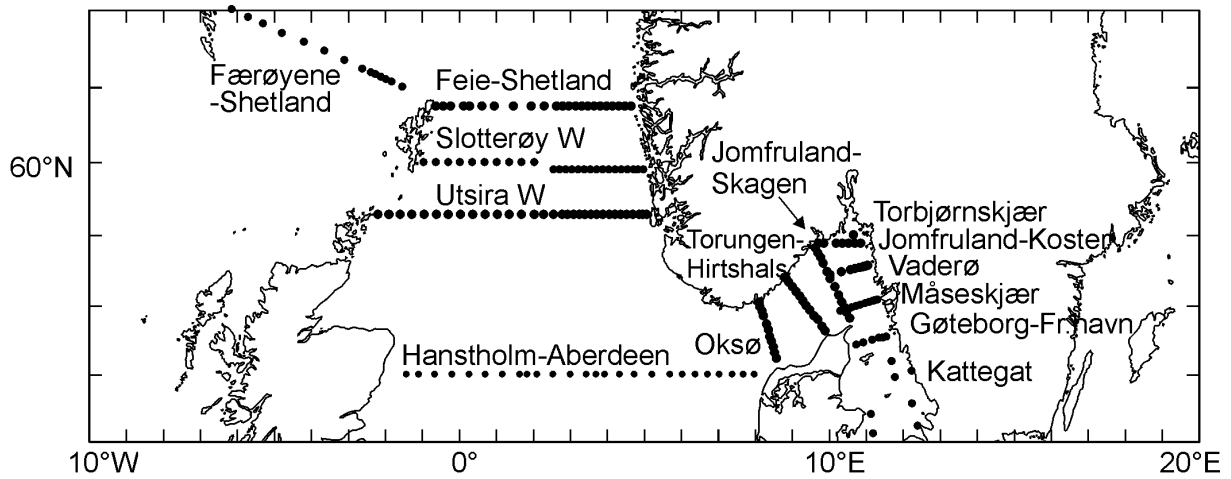
Johan Hjort	1.133 stations
Håkon Mosby	1.168 stations
G. O. Sars	492 stations
Jan Mayen	183 stations
G. M. Dannevig	390 stations
	3.366 stations

2.2 Oceanographic sections

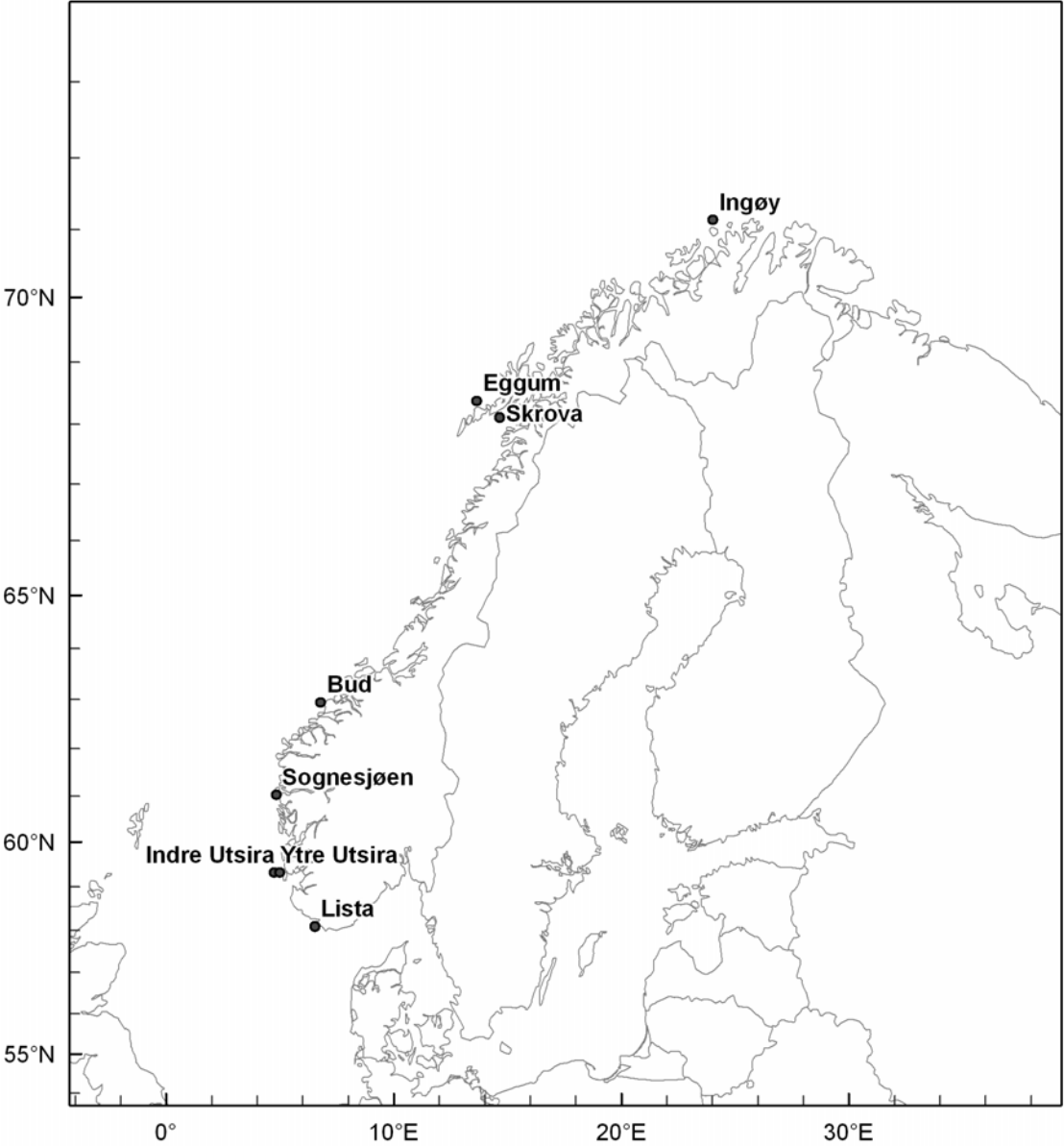
Norwegian Sea and Barents Sea



North Sea, Skagerrak and Kattegat



2.3 Fixed oceanographic stations



3 TABLES – OBSERVATIONS IN 2006

3.1 Standard oceanographic sections 2006

(Cruise no/ship)

Area	Sections	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
North Sea and Skagerrak	Fedje-Shetland				2006609HM				2006210JH		2006212JH 2006621HM			
	Slotterøy-West													
	Utsira-West	2006601HM				2006207JH			2006210JH				2006215JH	
	Egerøya-SW				2006207JH									
	Lista-SW					2006207JH								
	Lindesnes-SSW					2006207JH								
	Hanstholm-Aberdeen		2006602HM			2006207JH			2006210JH				2006215JH	
	Okseøy-Hanstholm		2006602HM						2006210JH				2006215JH	
	Torungen-Hirtshals	2006301GMD	2006304GMD	2006307GMD	2006312GMD	2006312GMD	2006315GMD	2006319GMD	2006320GMD	2006322GMD	2006324GMD			
	Jomfruland-Skagen					2006312GMD								
	Jomfruland-Koster					2006312GMD								
	Torbjørnskjær						2006312GMD							
	Väderø					2006312GMD								
Måseskjær					2006312GMD									
Gøteborg-Fredrikshavn					2006312GMD									
Kattegat					2006312GMD									
Røst-Tennholmen			2006204JH											
Ballstad-Måløy/Skarholmen			2006204JH											

Area	Sections	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Norwegian Sea	Svinøy-North/West	2006201JH			2006608HM	2006611HM		2006614HM				2006214JH	
	Gimsøy-North/West	2006201JH			2006205JH	2006611HM		2006614HM	2006211JH			2006115GS	
	Bjørnøya-West				2006205JH	2006611HM		2006111GS	2006211JH 2006615HM				
	Sørkapp-West								2006615HM				
Barents Sea	Fugløya-Bjørnøya	2006201JH	2006203JH	2006204JH		2006611HM	2006209JH		2006211JH		2006114GS		
	Vardo-North		2006201JH	2006203JH			2006209JH			2006113GS			
	Semøyene-North												

3.2 Other oceanographic sections 2006

Sections	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Færøene-Shetland				2006104GS								
Kabelvåg-Steigen			2006204JH									

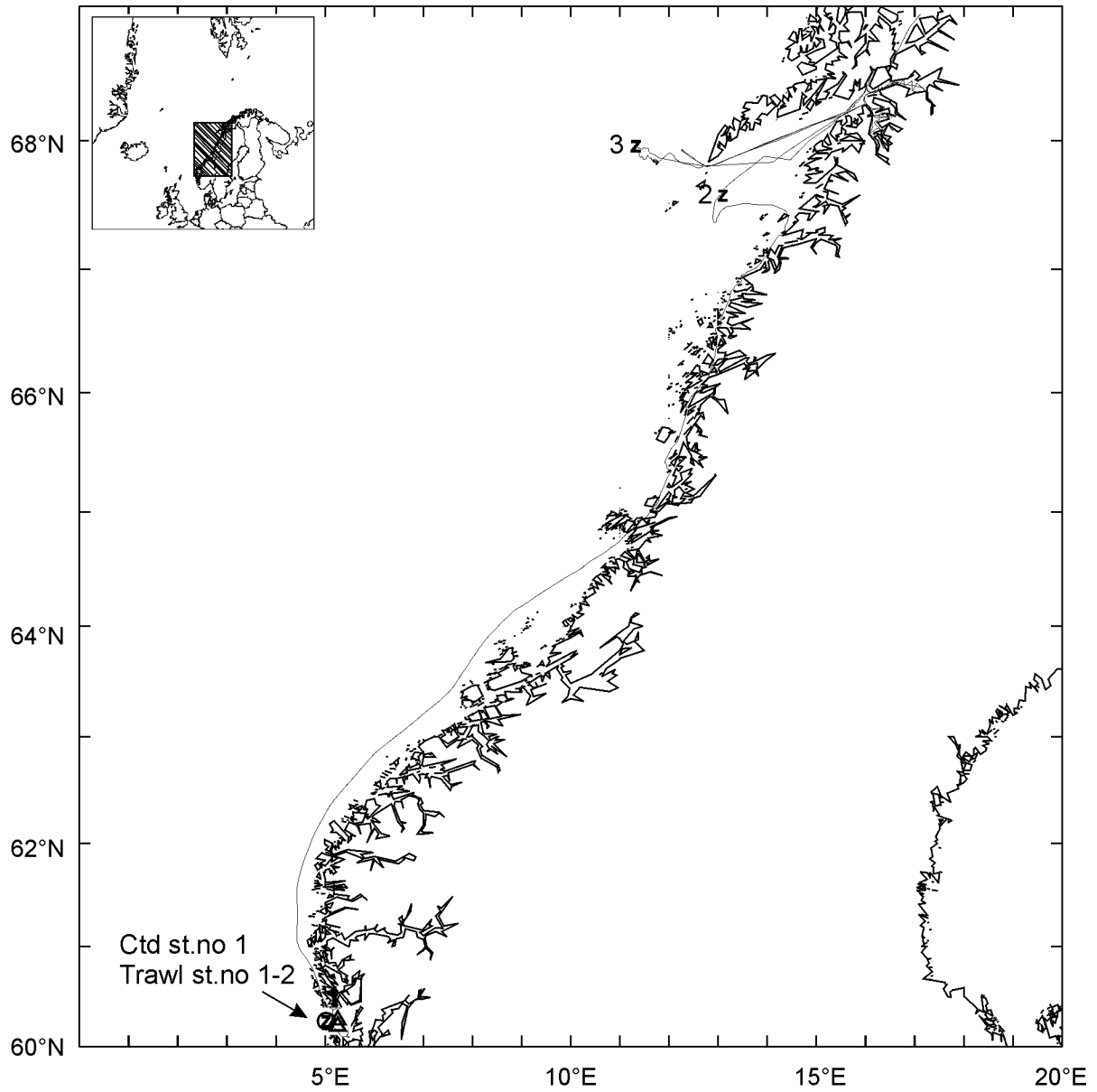
3.3 Fixed oceanographic stations 2006

(No of observations)

Fixed stations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
LISTA N58° 05,1' E06° 32,5'	3	3	3	3	3	3	3	3	3	3	3	3	36
UTSIRA Y N59° 19' E04° 44'	1	2	2	2	2	1	3	3	2	2	1	1	22
UTSIRA I N59° 19' E04° 59'	1	2	2	2	2	1	3	3	2	2	1	1	22
SOGNESJØEN N61° 01' E04° 50'	1	1	3	2	3	4	3	4	3	4	0	1	29
BUD N62° 56' E06° 47'	1	2	1	1	1	3	2	2	2	1	1	0	17
SKROVA N68° 07' E14° 39'	3	3	4	5	4	5	4	5	4	4	4	4	49
EGGUM N68° 23' E13° 38'	2	2	4	3	3	3	3	2	3	3	3	2	33
INGØY N71° 08' E24° 01'	3	4	4	3	1	4	4	3	2	3	4	2	37

4 CHARTS FOR CRUISES 2006

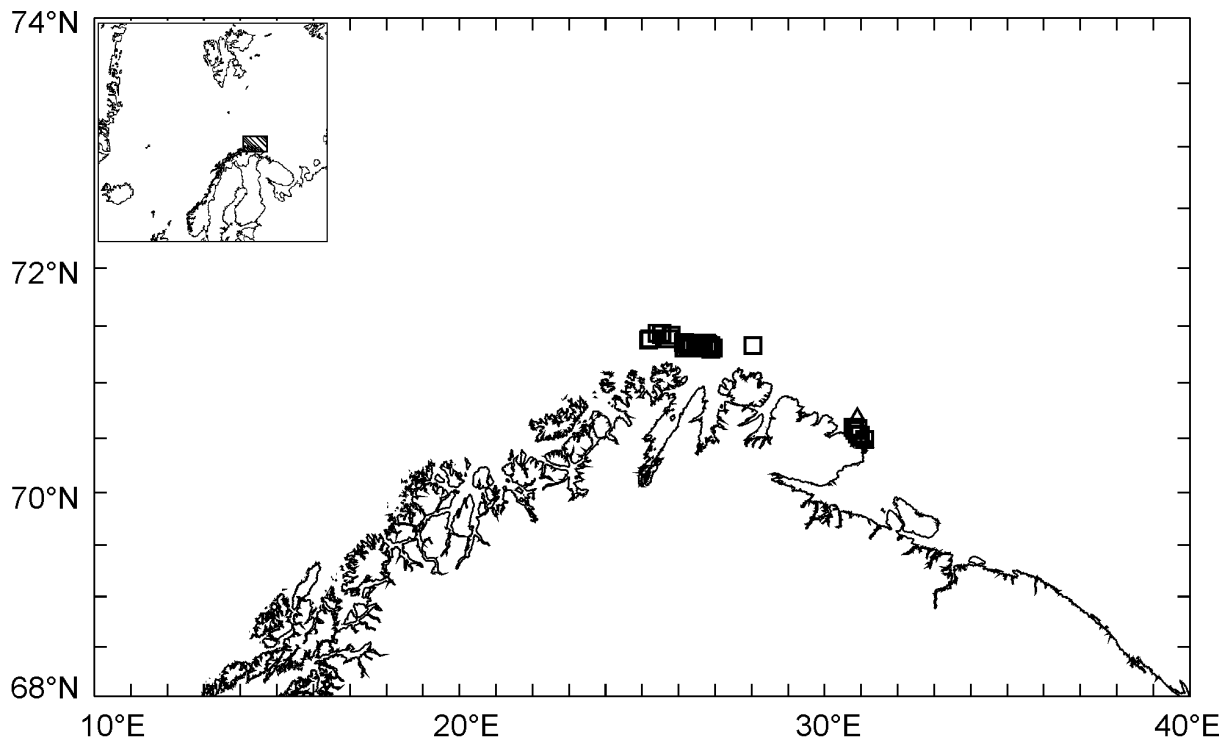
4.1 G. O. Sars



16–29 Jan 2006
Cruise no 2006101

z CTD st.no 1–3
△ Pelagic trawl st.no 1–2
o Plankton station

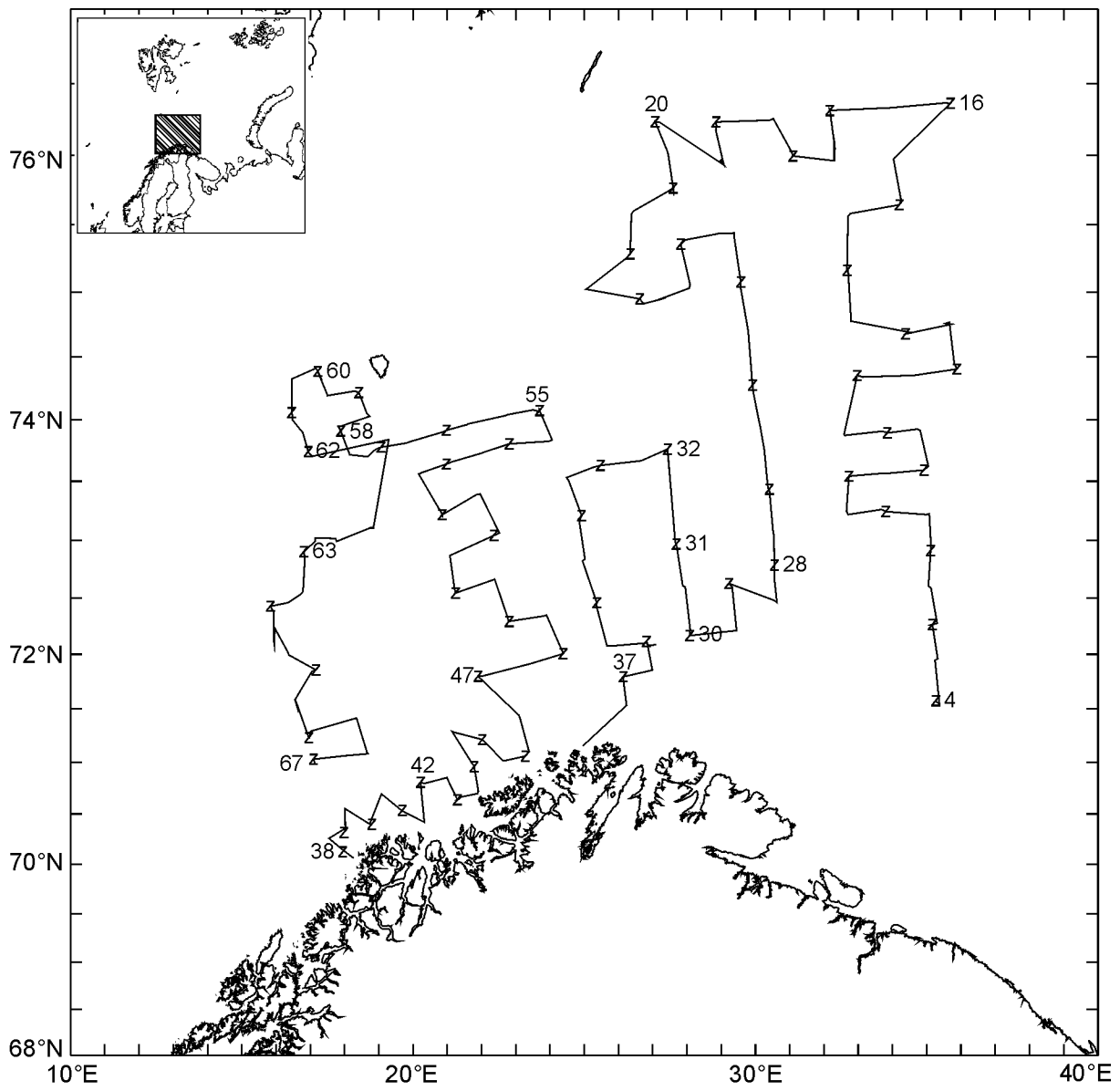
“G. O. Sars”



31 Jan–11 Feb 2006
Cruise no 2006102

Trawl st. no 3–50
□ Bottom trawl
△ Pelagic trawl st.no 19–21

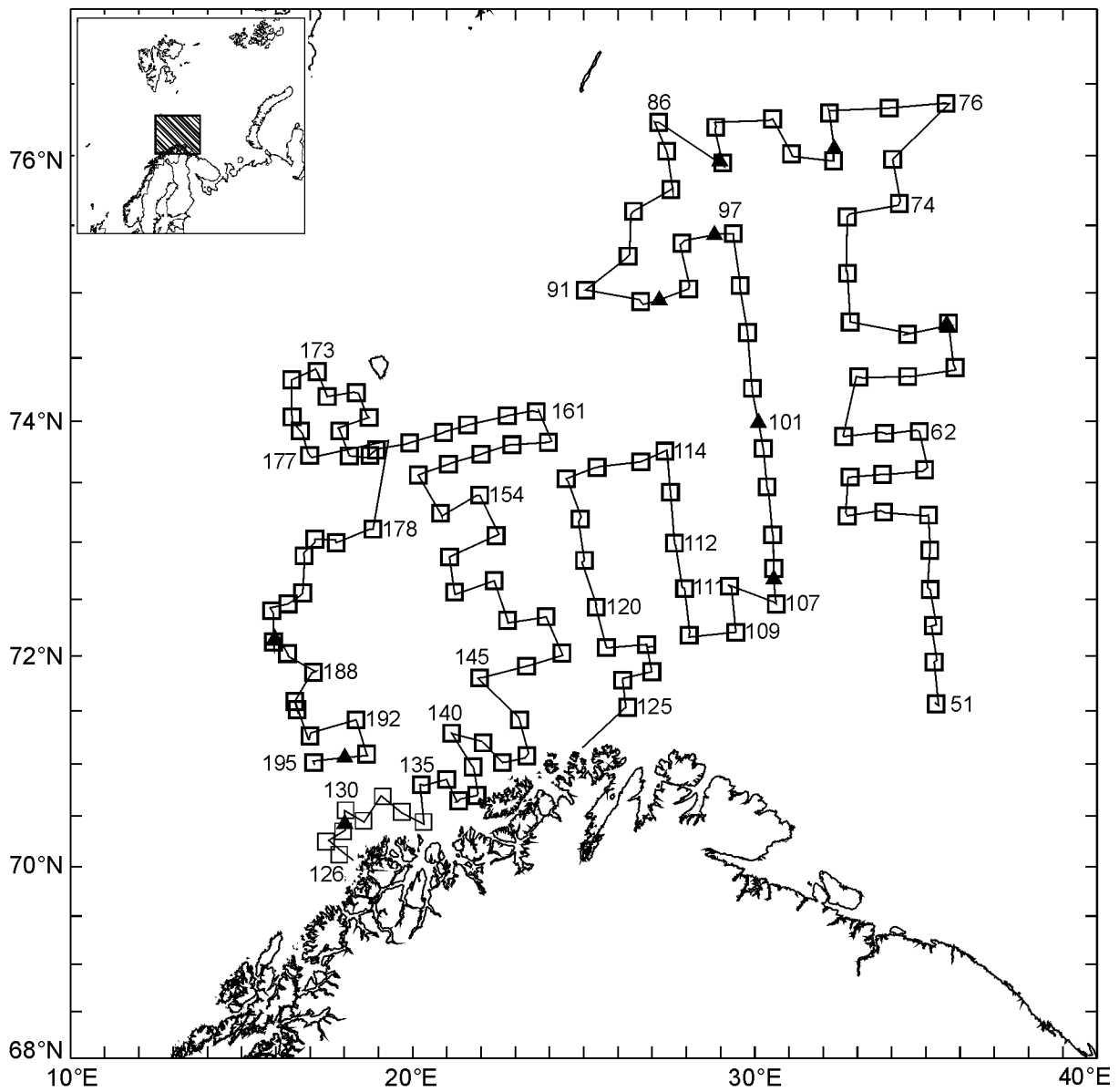
“G. O. Sars”



11 Feb–10 Mar 2006
Cruise no 2006103

z CTD st.no 4–67

“G. O. Sars”



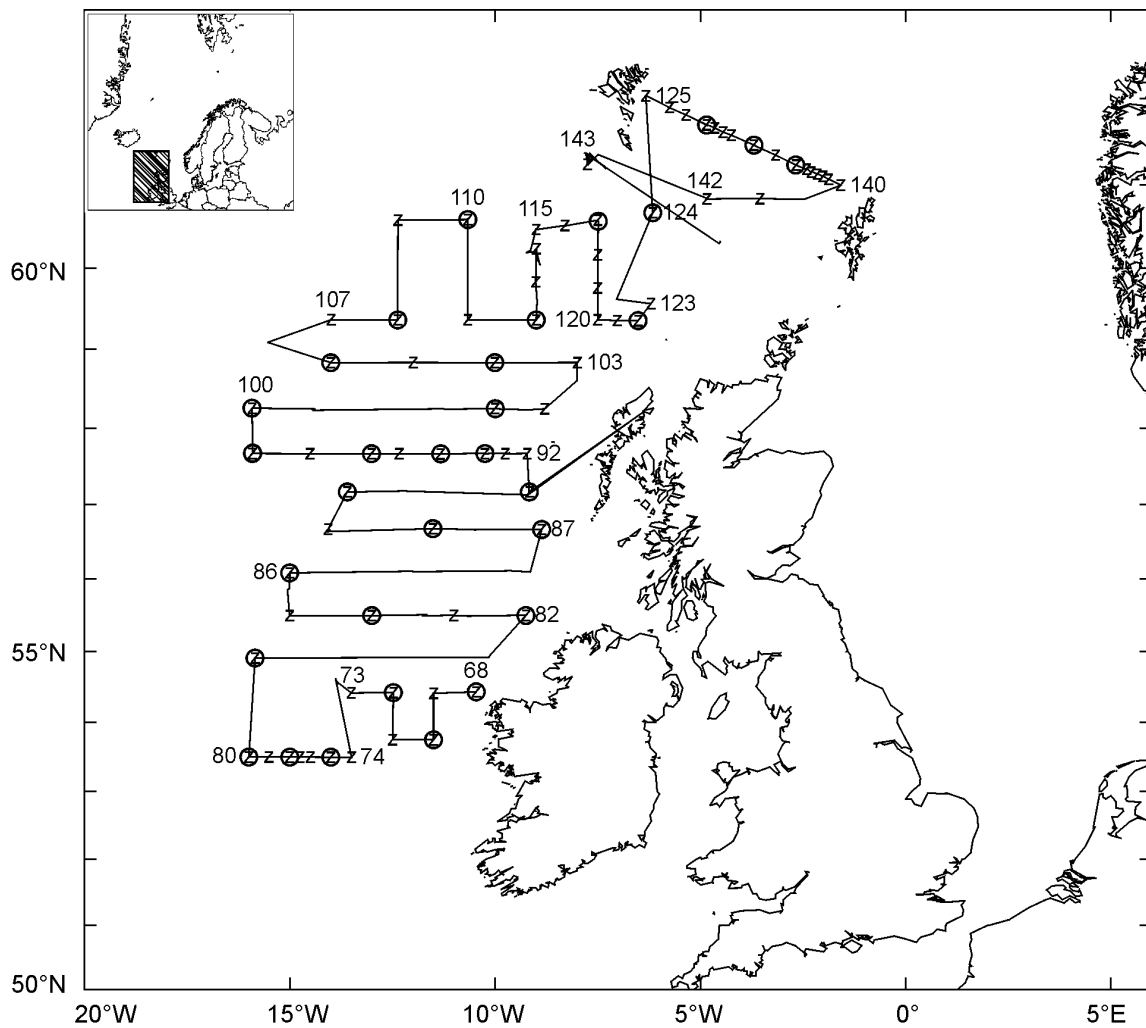
11 Feb–10 Mar 2006
Cruise no 2006103

Trawl st.no 51–195

“G. O. Sars”

□ Bottom trawl

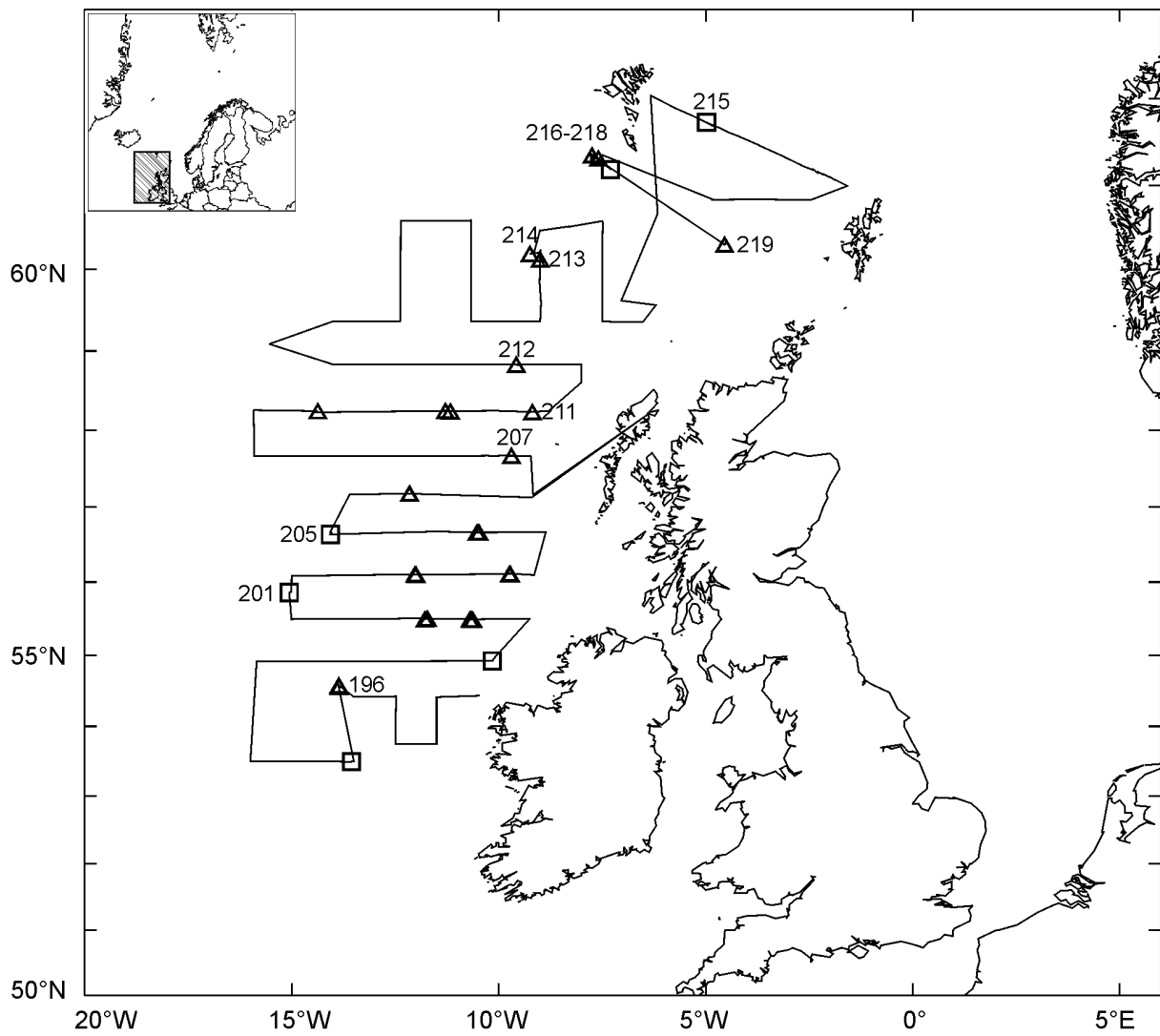
▲ Pelagic trawl



15 Mar–16 Apr 2006
Cruise no 2006104

z CTD st.no 68–143
o Plankton st. (WP-II-net)
Oceanographic section:
Færøylene–Shetland st.no 125–140

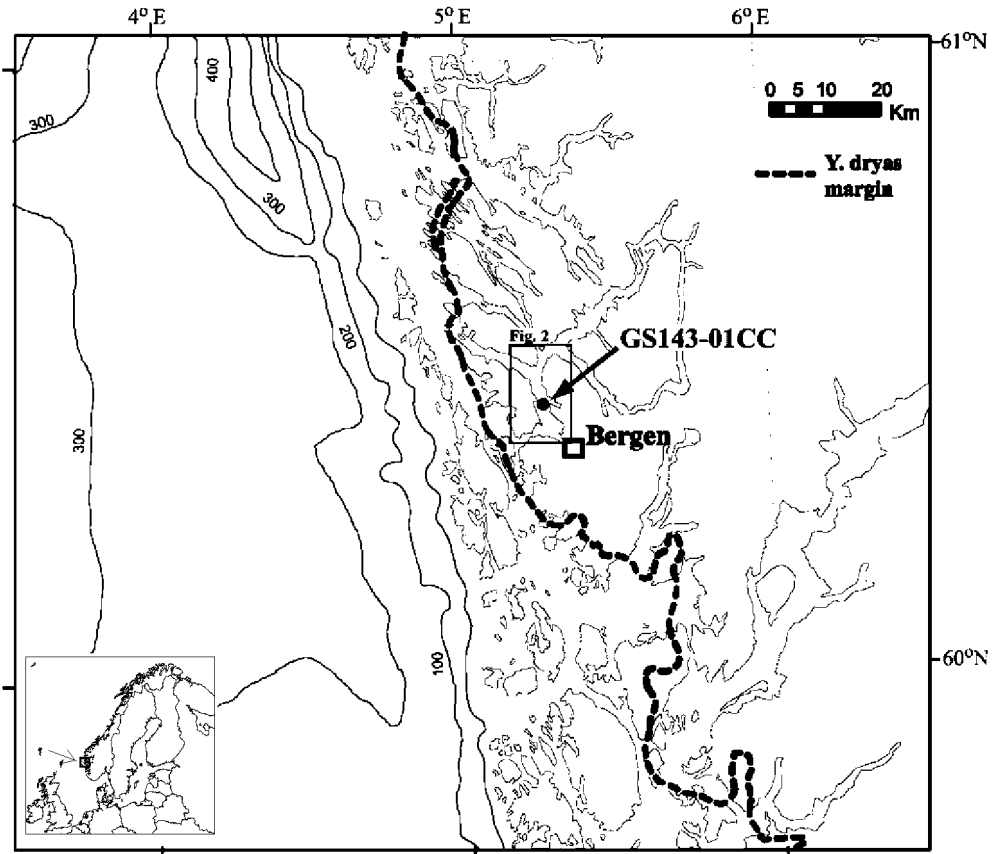
“G. O. Sars”



15 Mar–16 Apr 2006
Cruise no 2006104

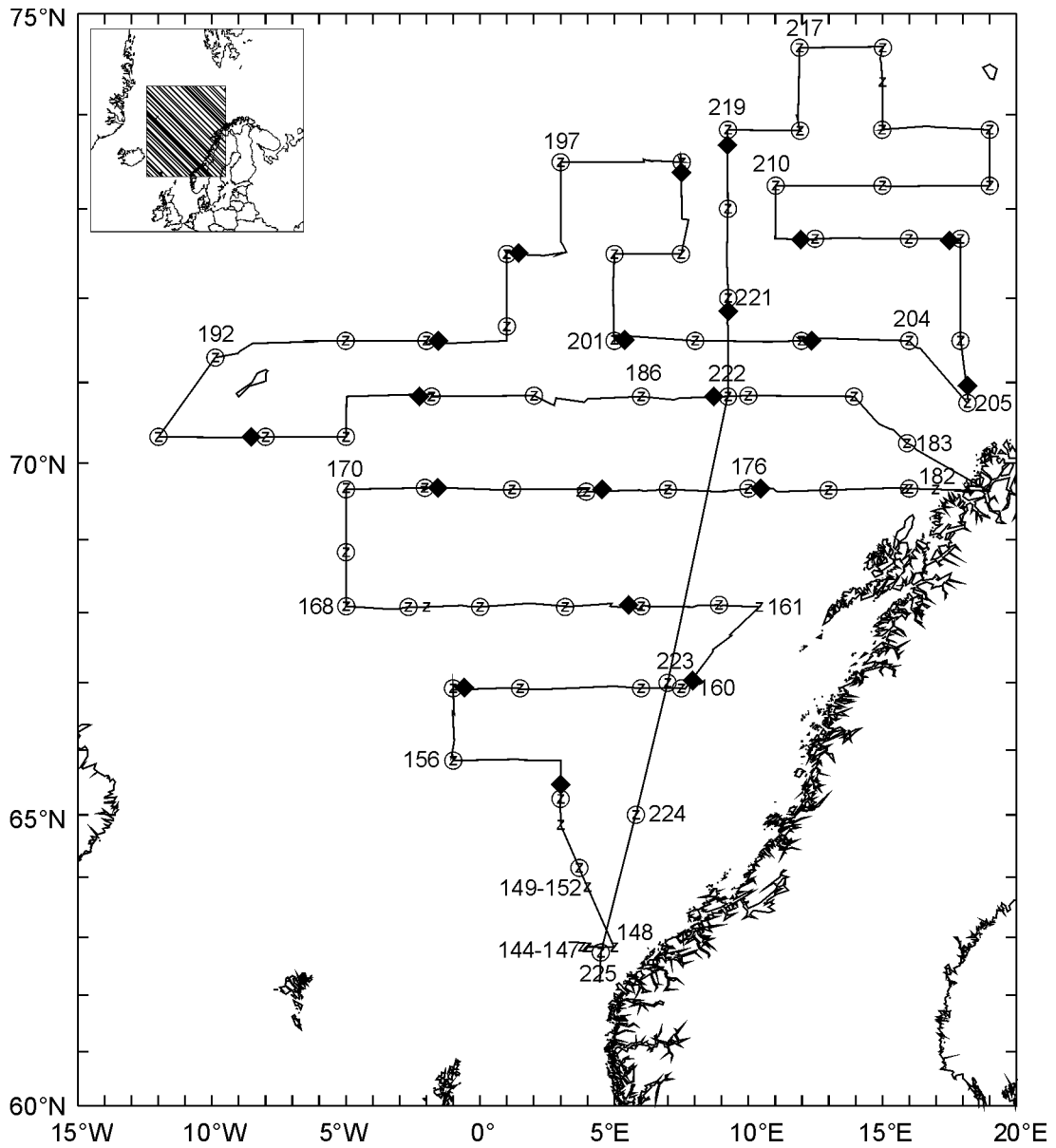
Trawl st.no 196–219
 △ Pelagic trawl
 □ Bottom trawl

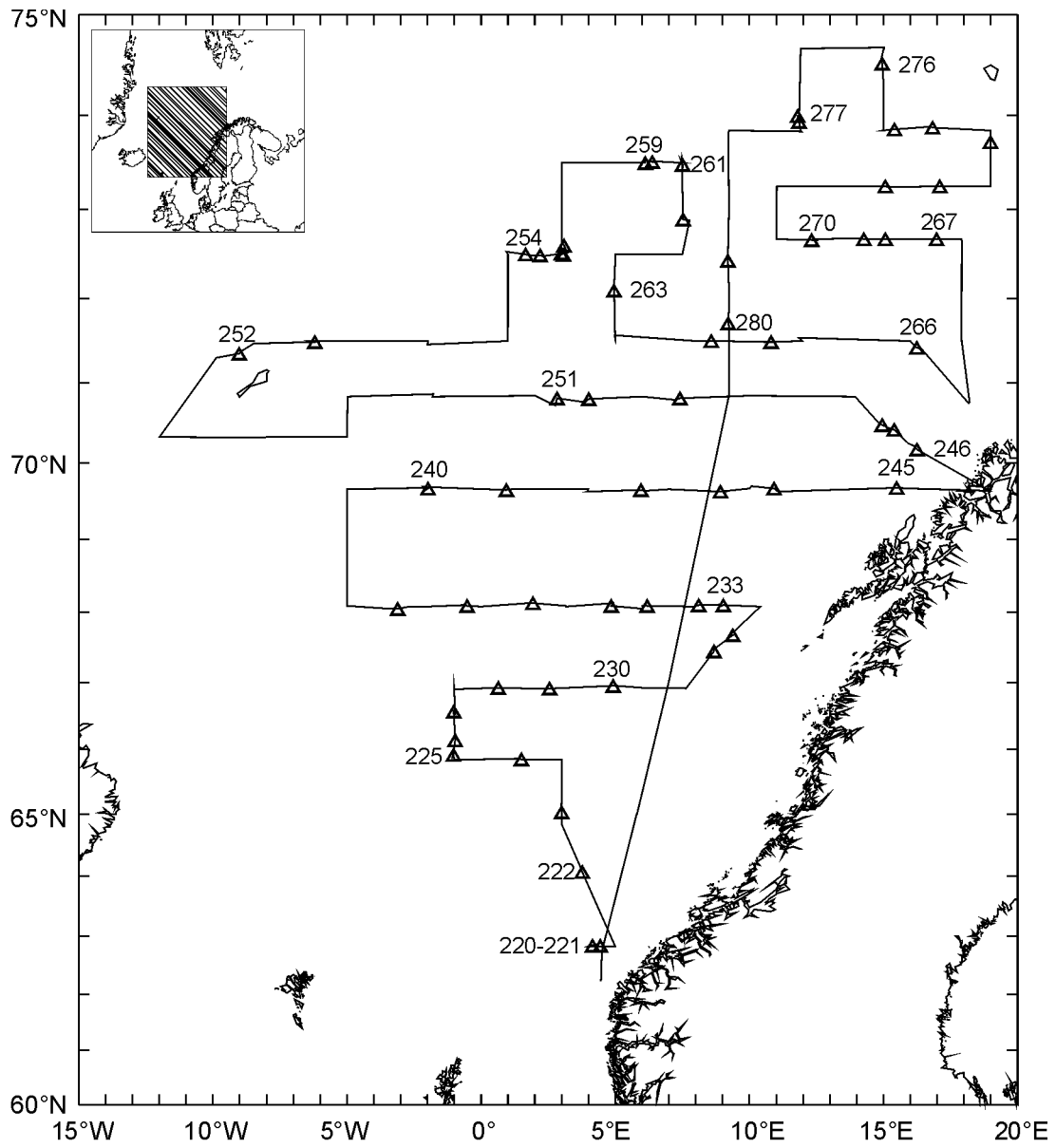
“G. O. Sars”



26 Apr 2006
Cruise no 2006106

“G. O. Sars”

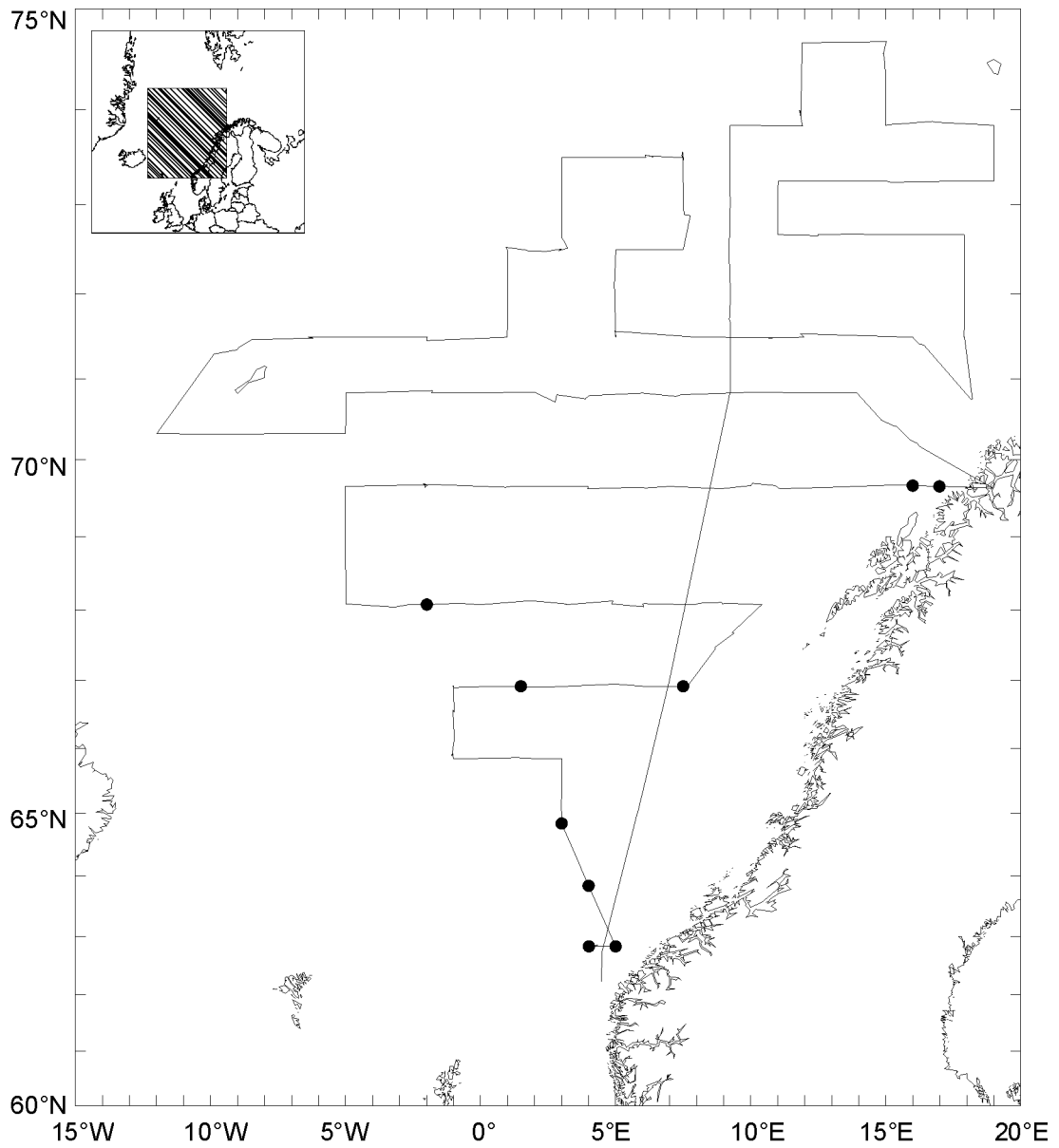




27 Apr–30 May 2006
Cruise no 2006107

△ Pelagic trawl st.no 220–280

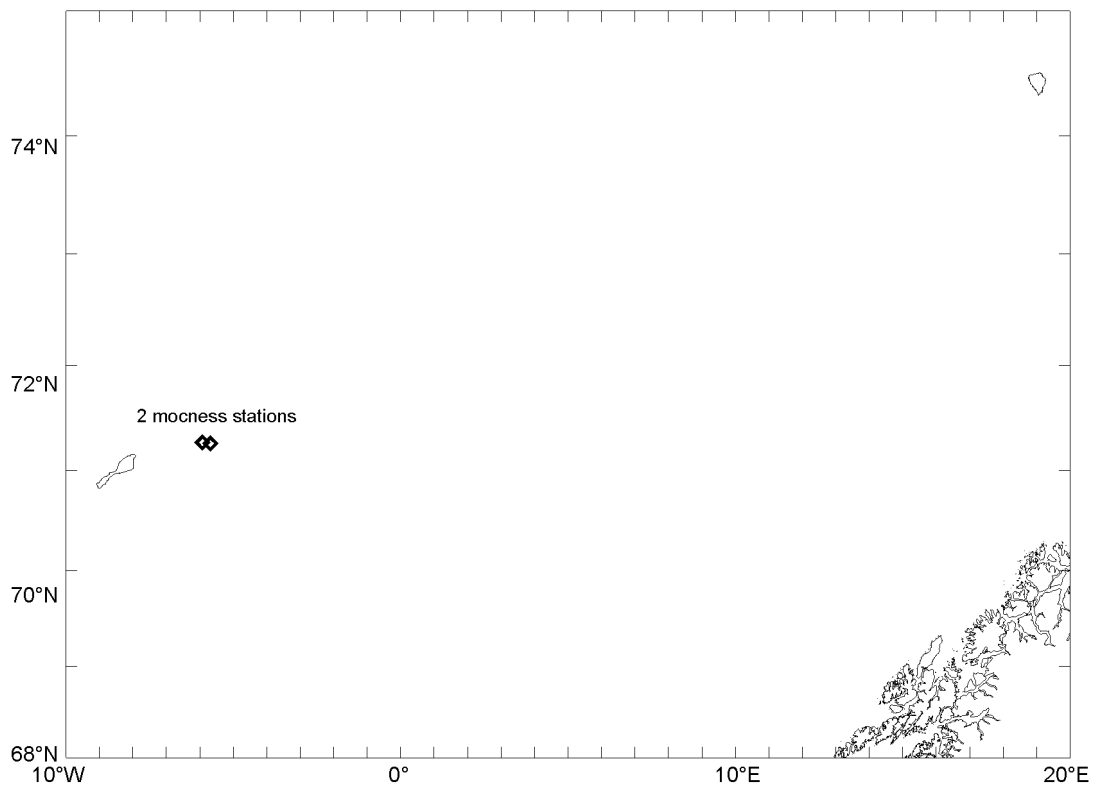
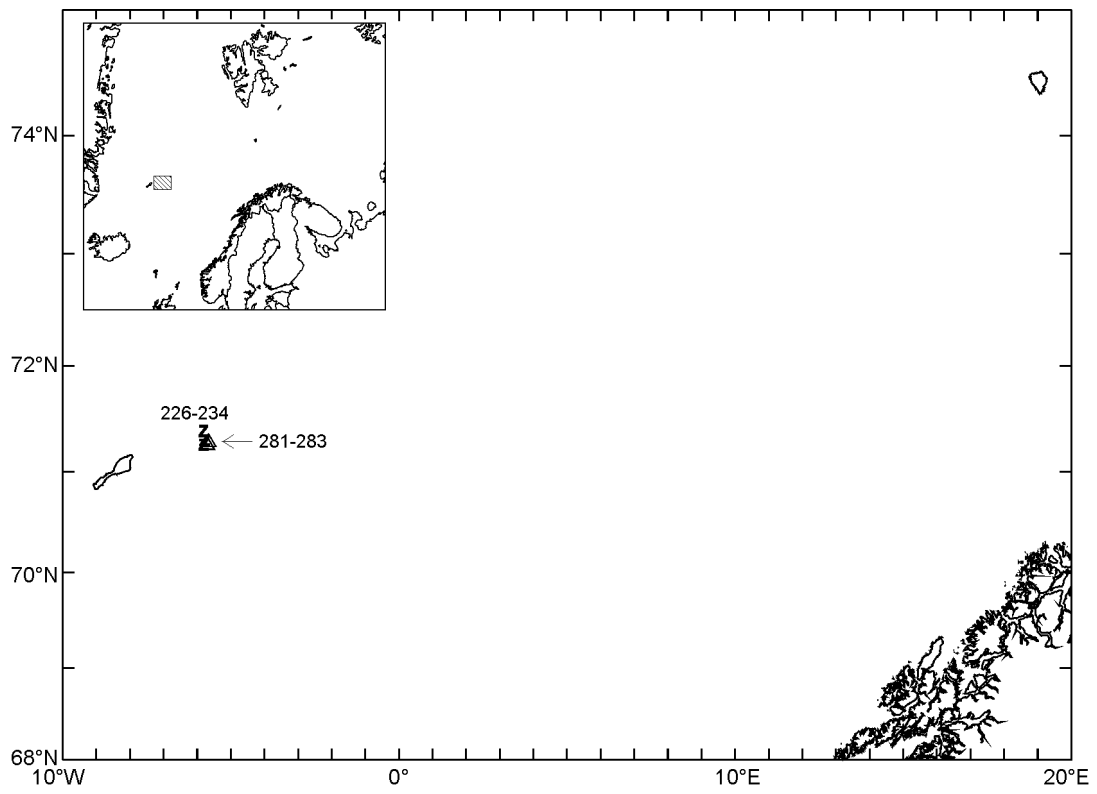
“G. O. Sars”



27 Apr–30 May 2006
Cruise no 2006107

● Grab stations

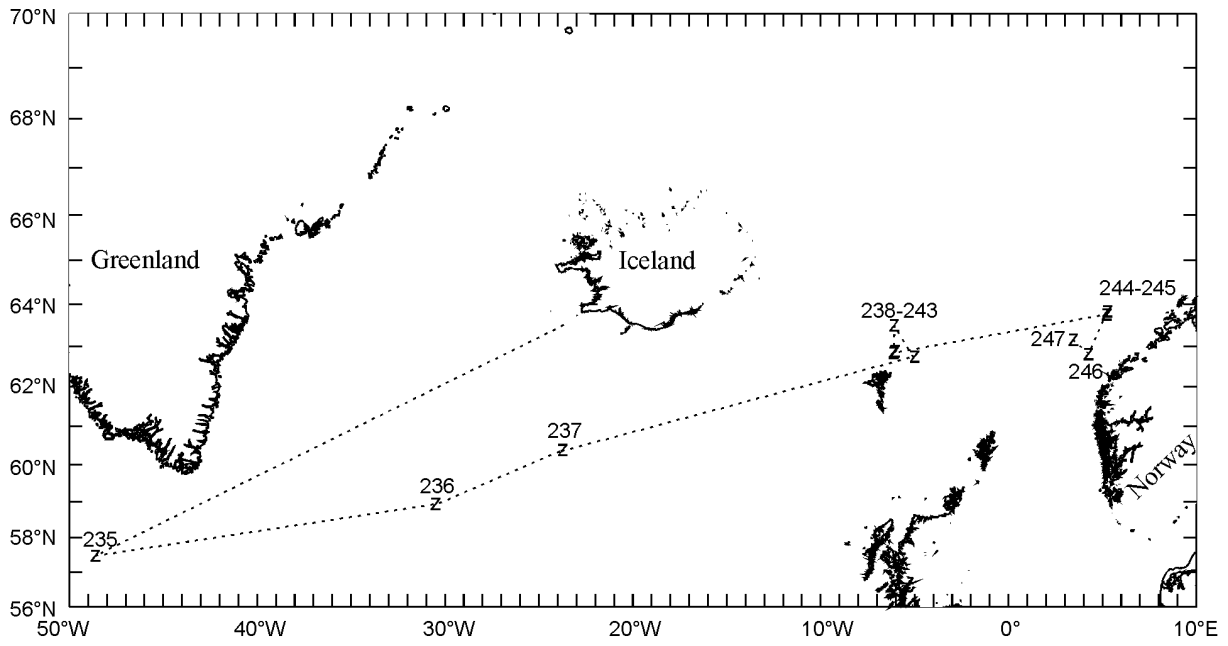
“G. O. Sars”



1–18 June 2006
Cruise no 2006108

z CTD st.no 226–234
△ Pelagic trawl st.no 281–283
◇ Mocness stations

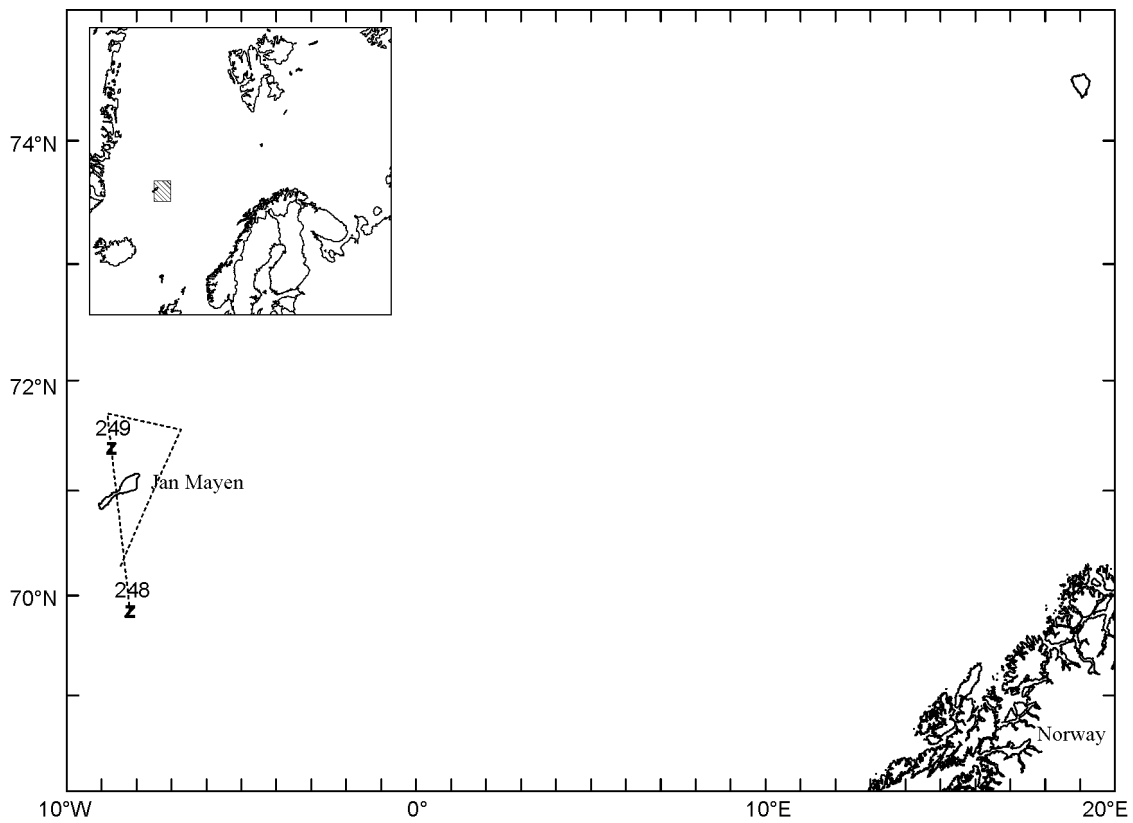
“G. O. Sars”



19 June–8 July 2006
Cruise no 2006109

z CTD st.no 235–247

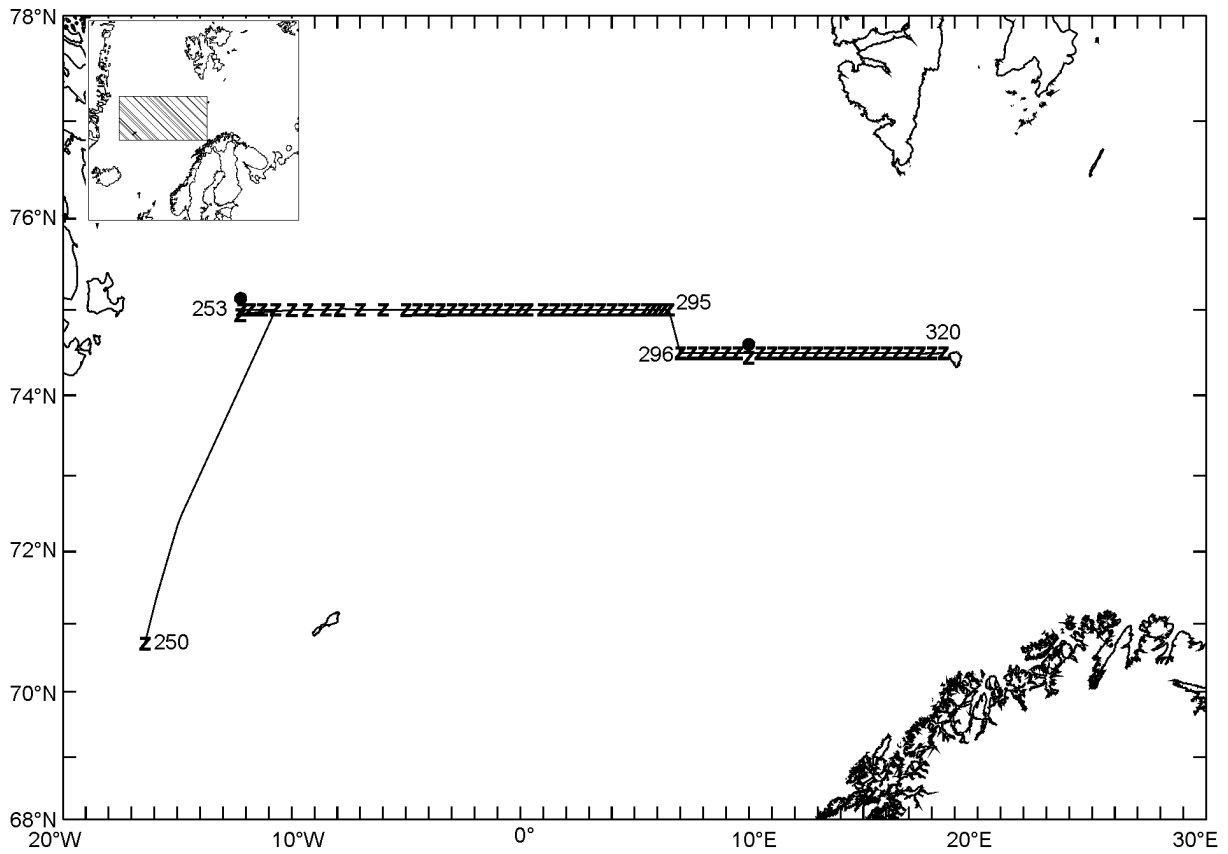
“G. O. Sars”



9–20 July 2006
Cruise no 2006110

z CTD st.no 248–249

“G. O. Sars”



21 Jul–5 Aug 2006
Cruise no 2006111

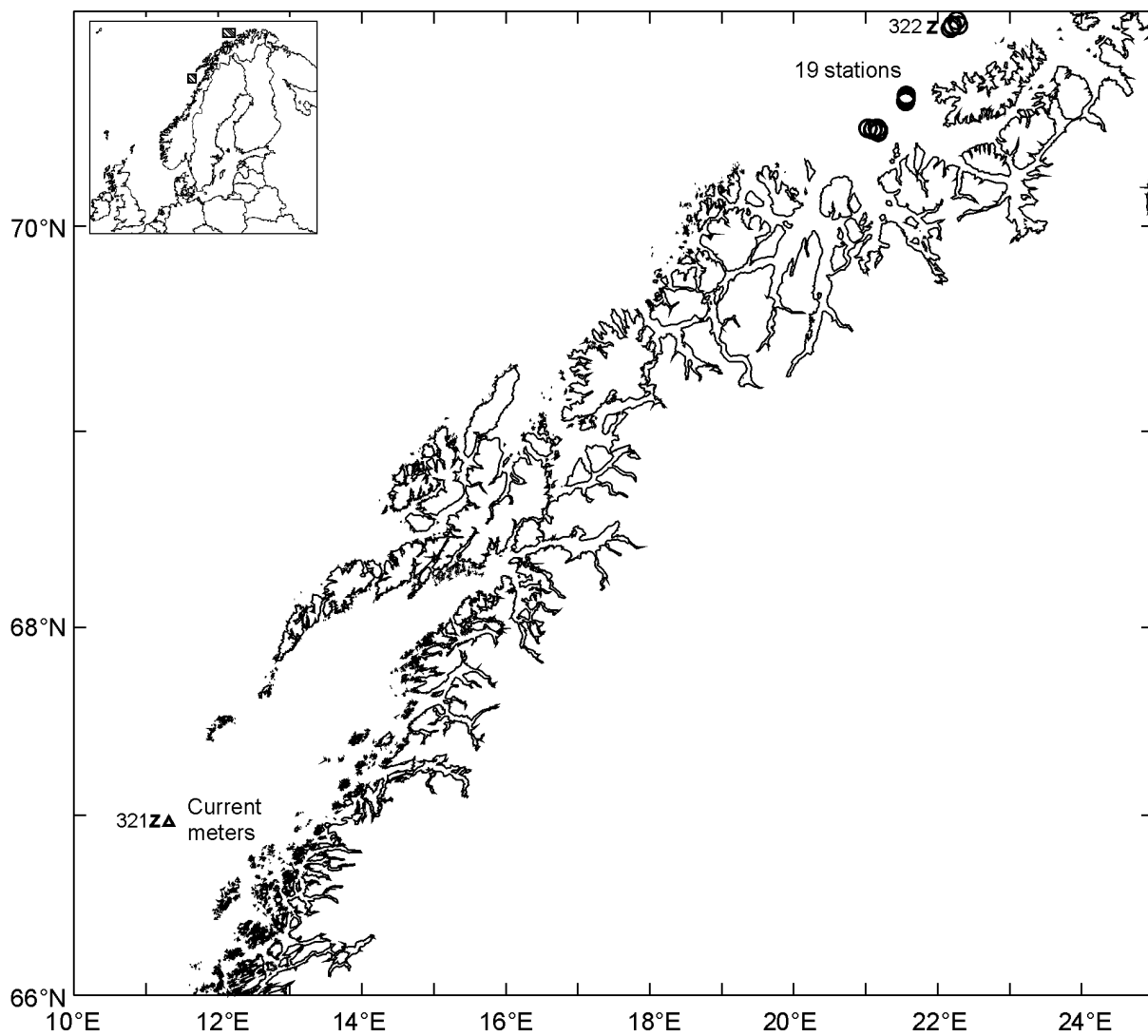
z CTD st.nr 250–320

“G. O. Sars”

● Grab stations

Standard section:

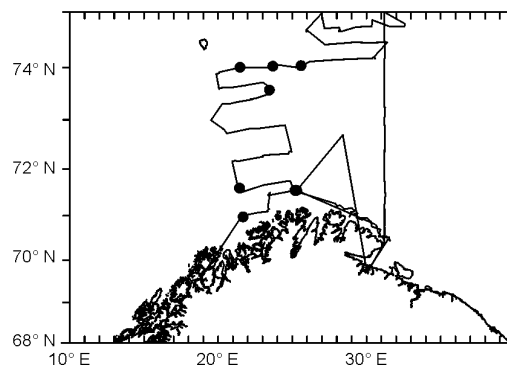
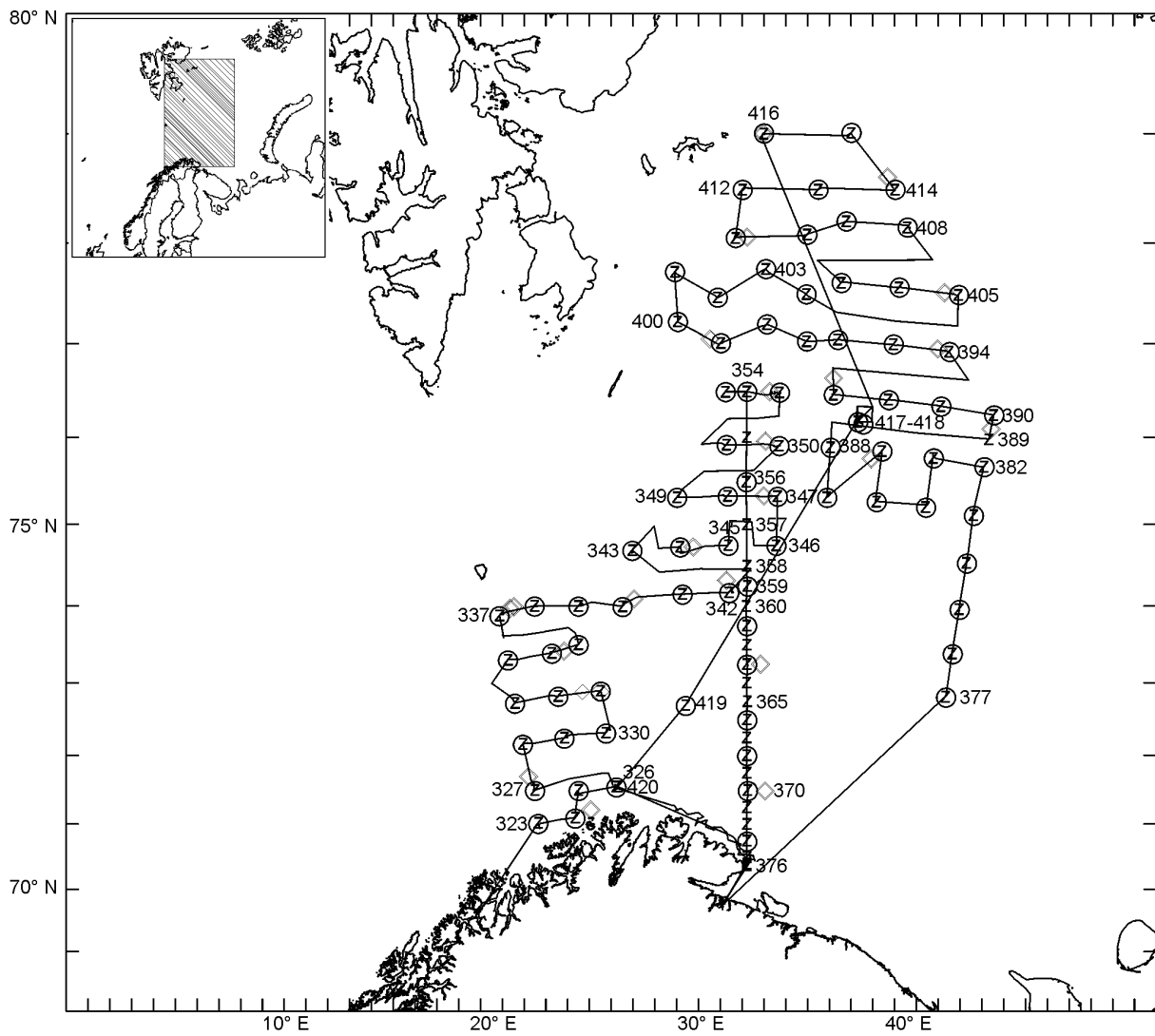
Bjørnøya-W st.no 296-320



6–16 Aug 2006
Cruise no 2006112

z CTD st.no 321–322
○ Video camera at bottom
▲ Current meters

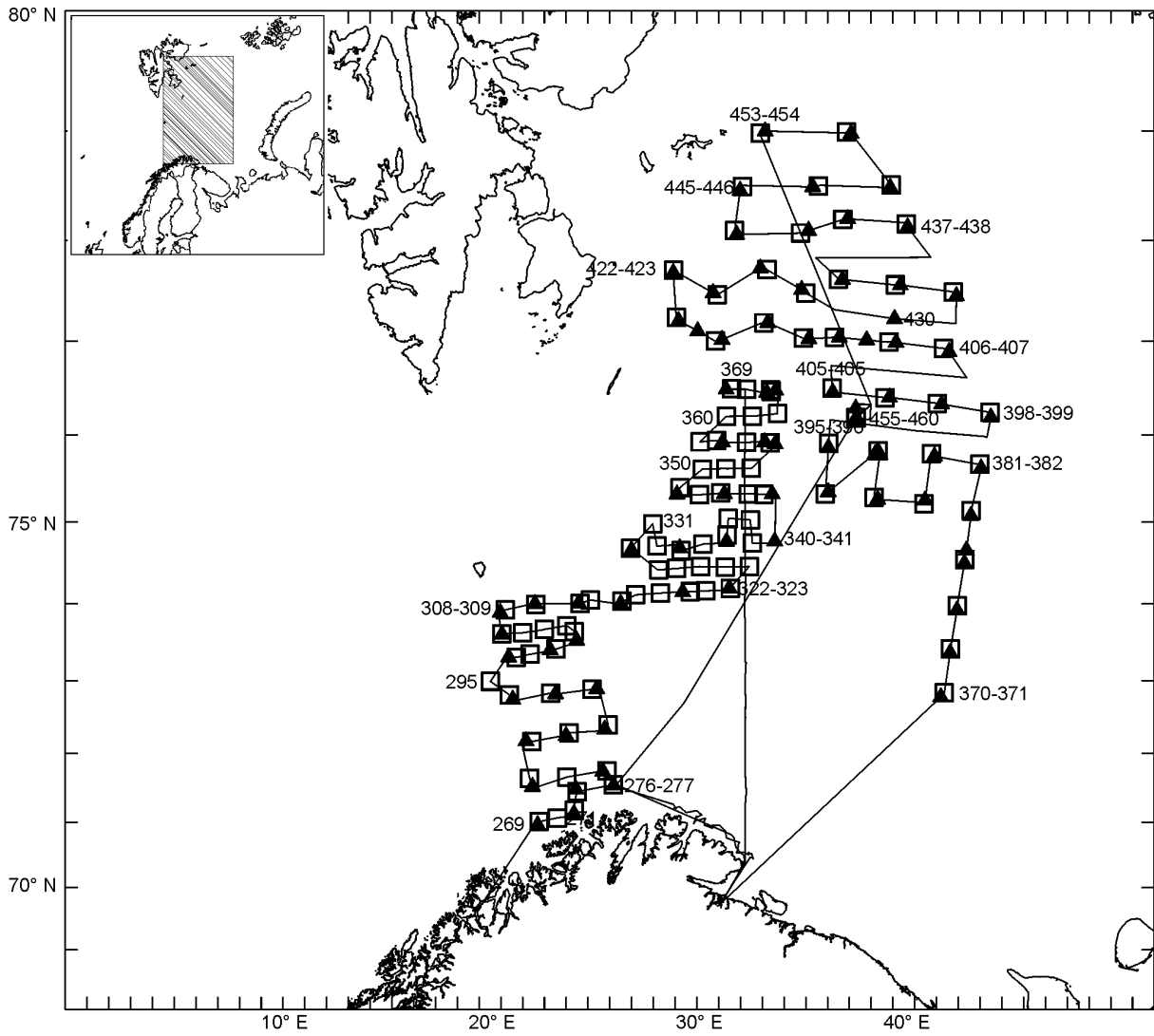
“G. O. Sars”



18 Aug–29 Sep 2006
Cruise no 2006113

z CTD st.no 323–420
o Plankton st. (WP-II-net)
◇ Moccuss st.
● Grab stations
Standard section:
Vardø-N st.no 354–376

“G. O. Sars”



18 Aug–29 Sep 2006
Cruise no 2006113

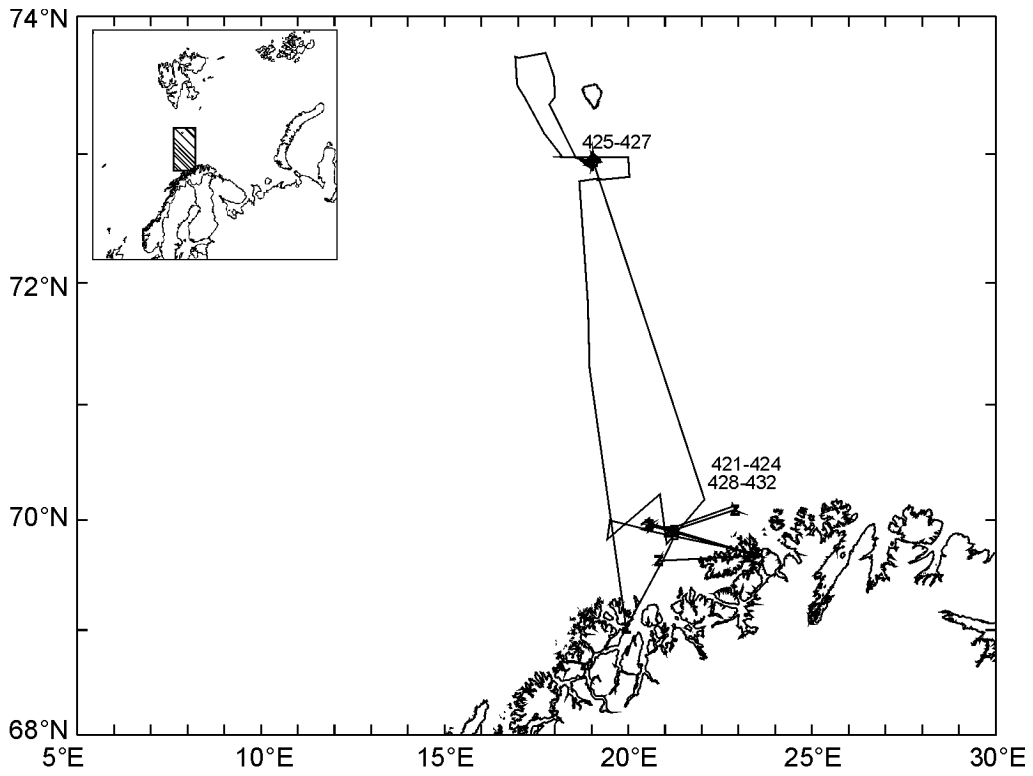
Trawl st.no 269–460

“G. O. Sars”

□ Bottom trawl

▲ Pelagic trawl

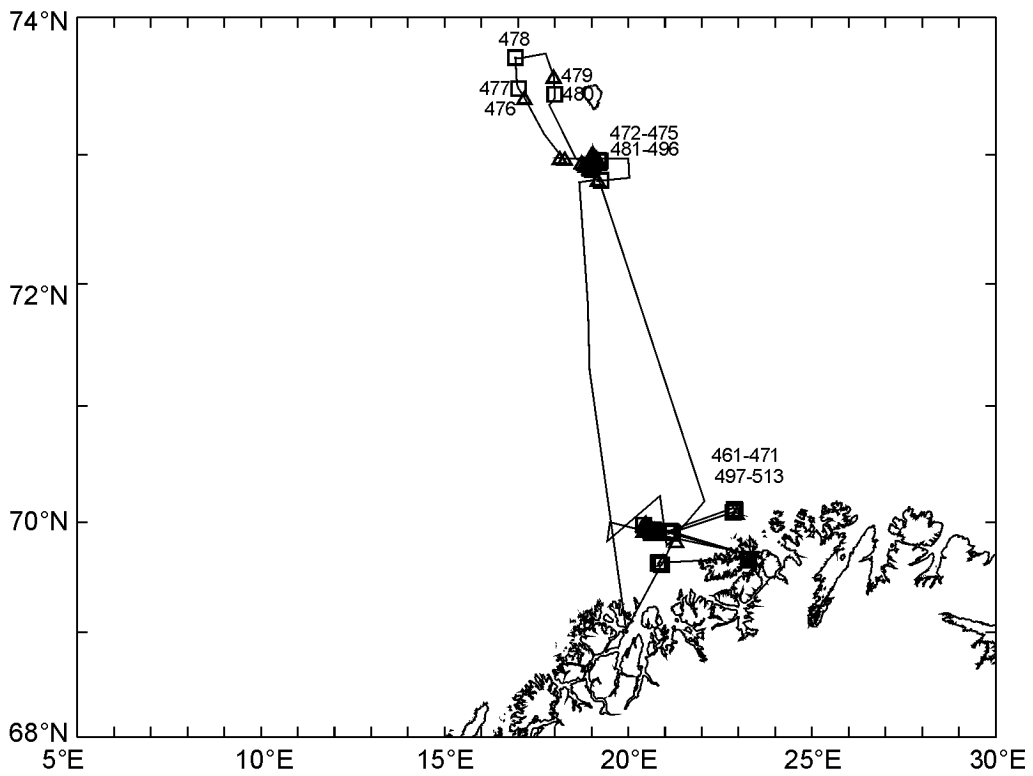
Notice aberrancy in station number. This is due to an error/errors in the numbering(s).



1–20 Oct 2006
Cruise no 2006114 Part I

z CTD st.no 421–432

“G. O. Sars”



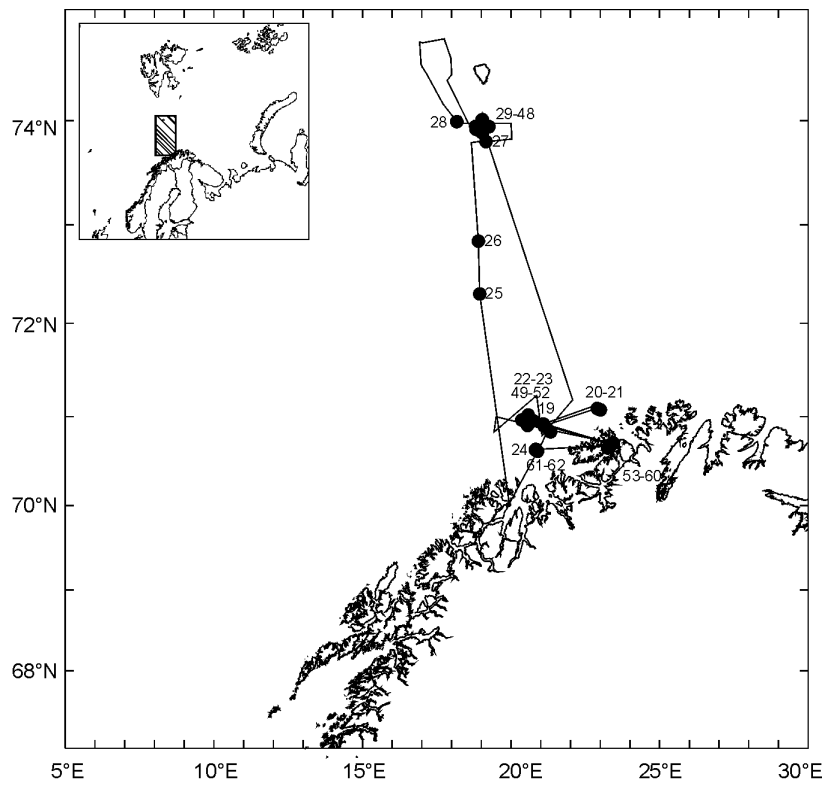
1–20 Oct 2006
Cruise no 2006114 Part I

Trawl st.no 461–513

“G. O. Sars”

□ Bottom trawl

△ Pelagic trawl

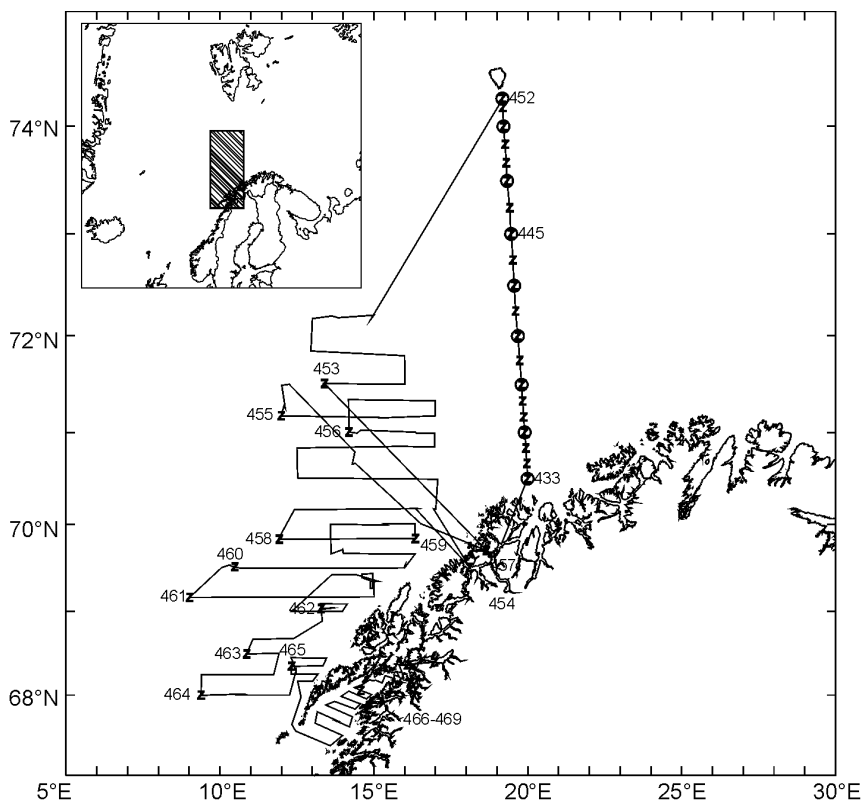


1–20 Oct 2006

● Acoustic stations

“G. O. Sars”

Cruise no 2006114 Part I



21 Oct–11 Nov 2006

z CTD st.no 433–469

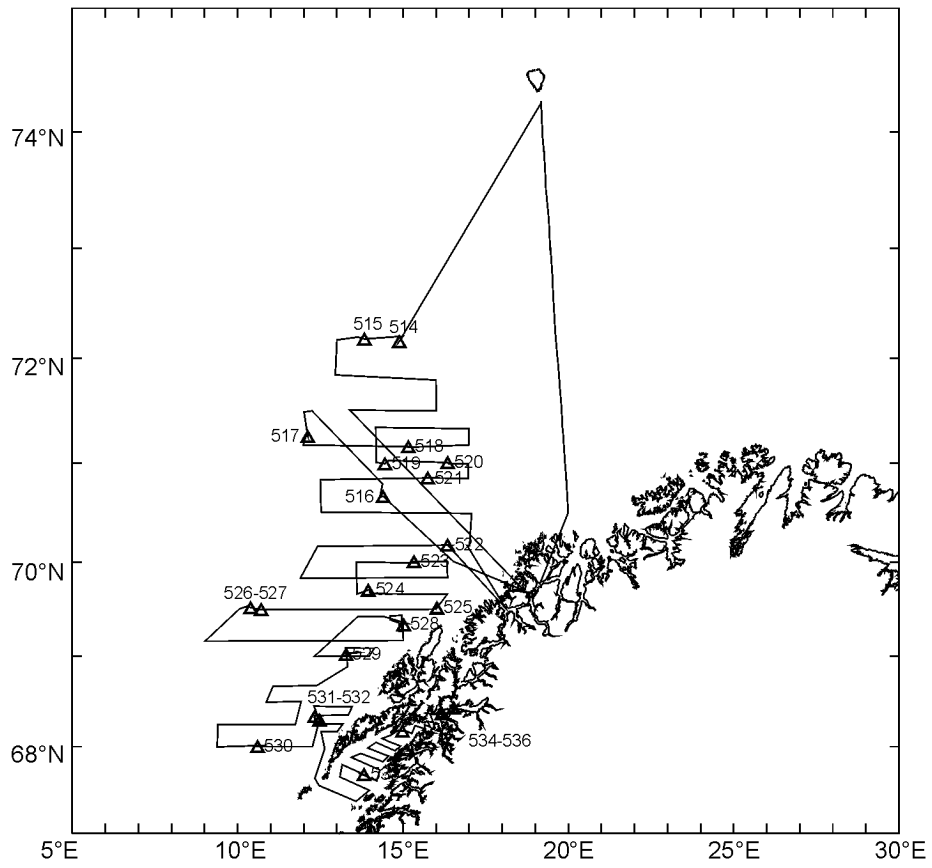
“G. O. Sars”

Cruise no 2006114 Part II

o Plankton st. (WP-II-net)

Standard section:

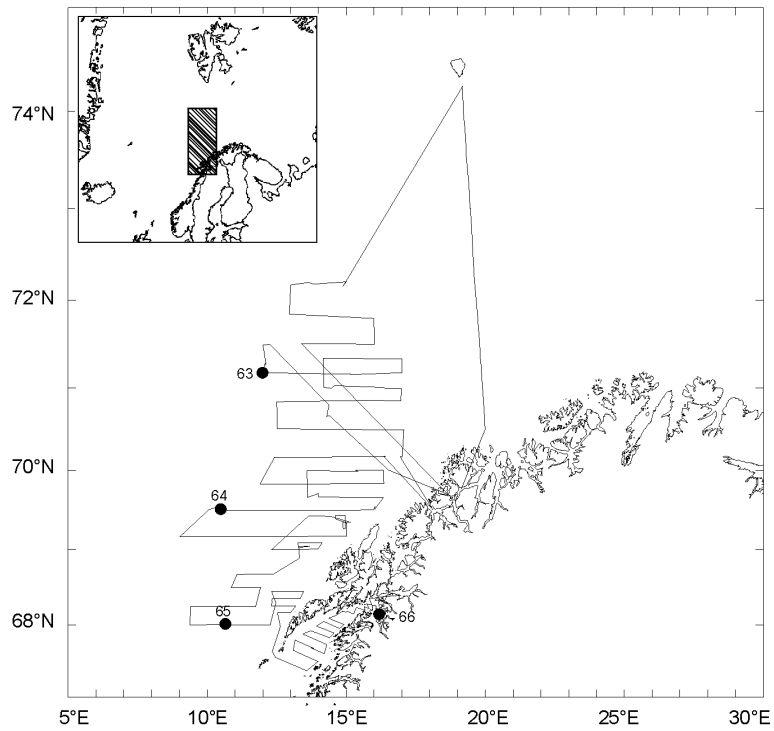
Fugløya–Bjørnøya st.no 433–452



21 Oct–11 Nov 2006
Cruise no 2006114 Part II

Δ Trawl st.no 514–536

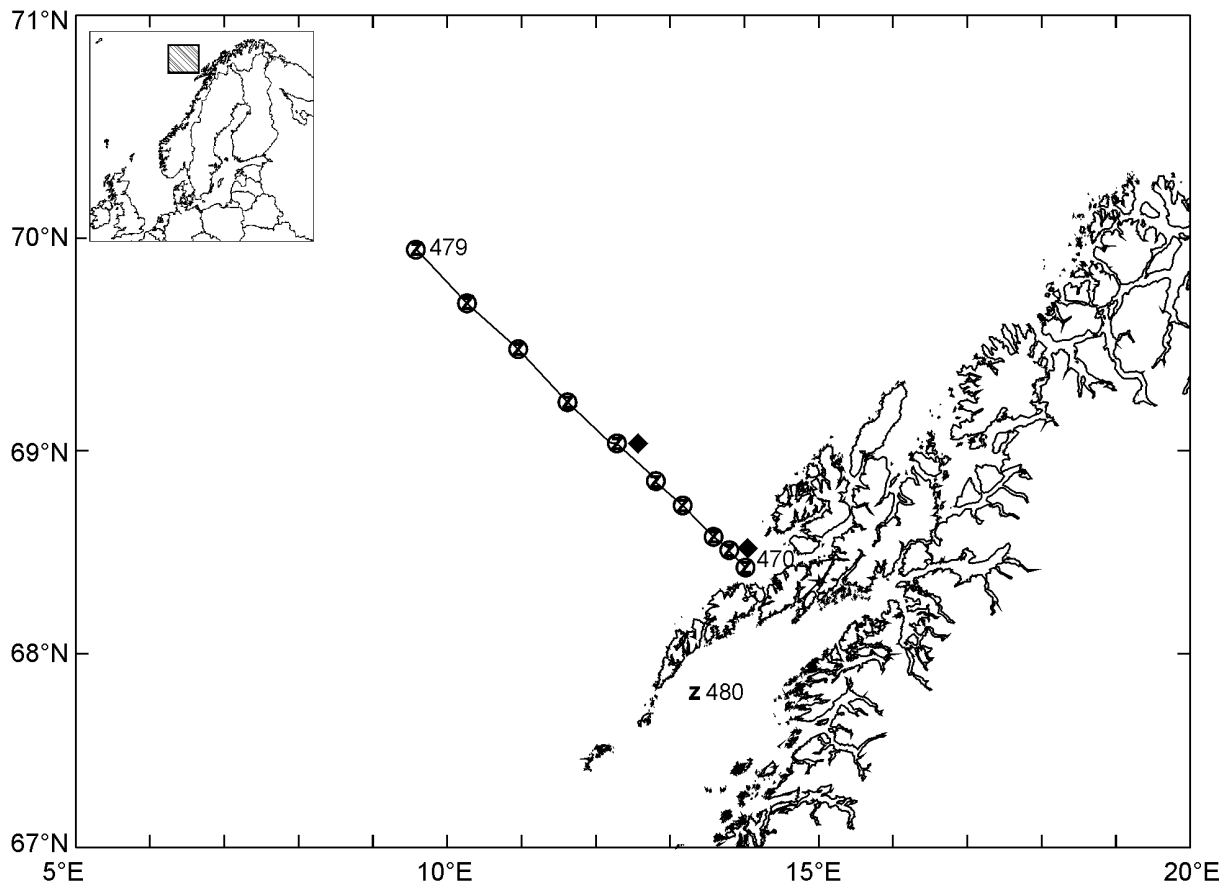
“G. O. Sars”



21 Oct–11 Nov 2006
Cruise no 2006114 Part II

● Acoustic stations

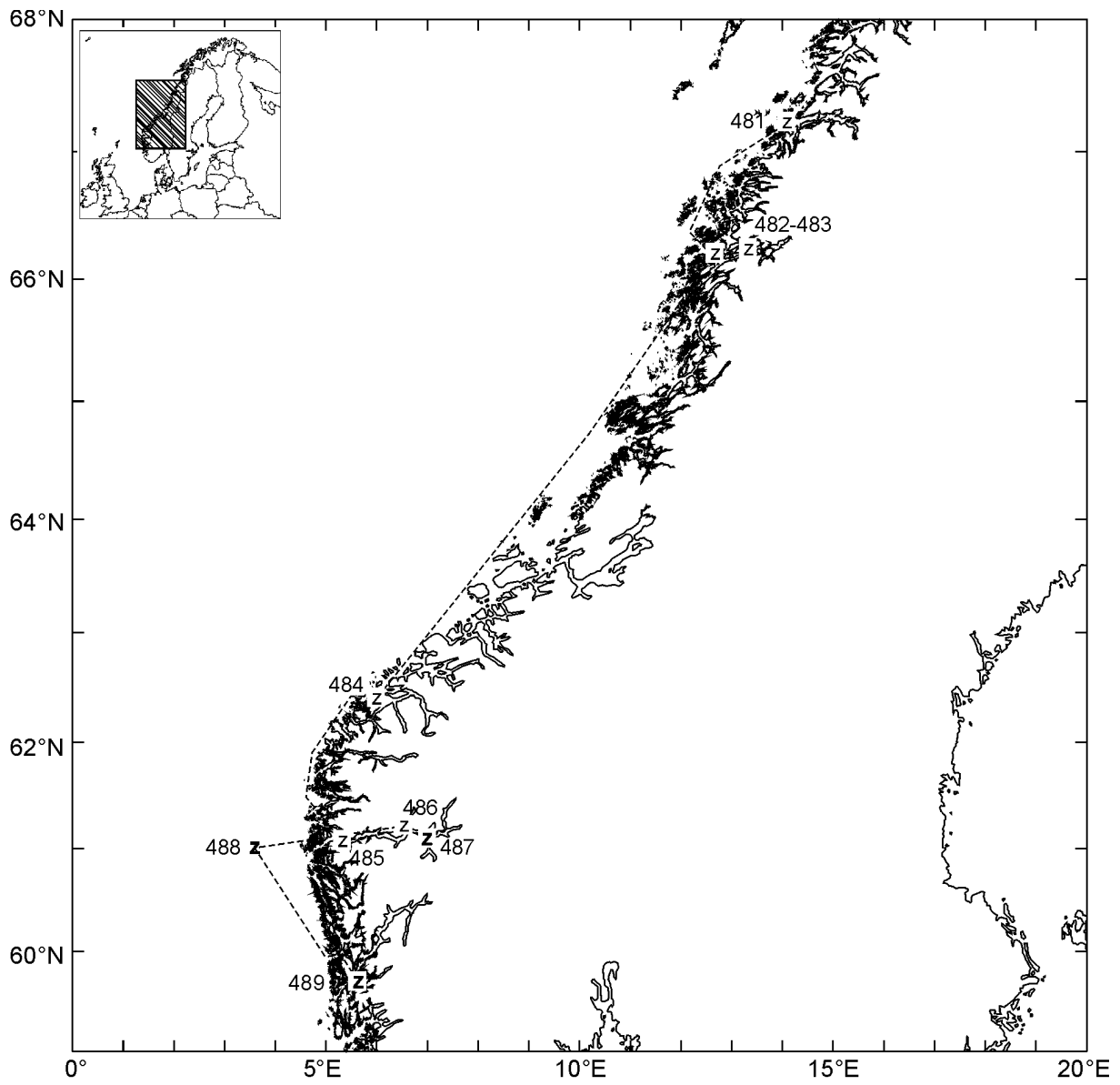
“G. O. Sars”



12–15 Nov 2006
Cruise no 2006115

z CTD st.no 470–480
o Plankton st. (WP-II-net)
◆ MOCNESS st.
Standard section:
Gimsøy-NW st.no 470–479

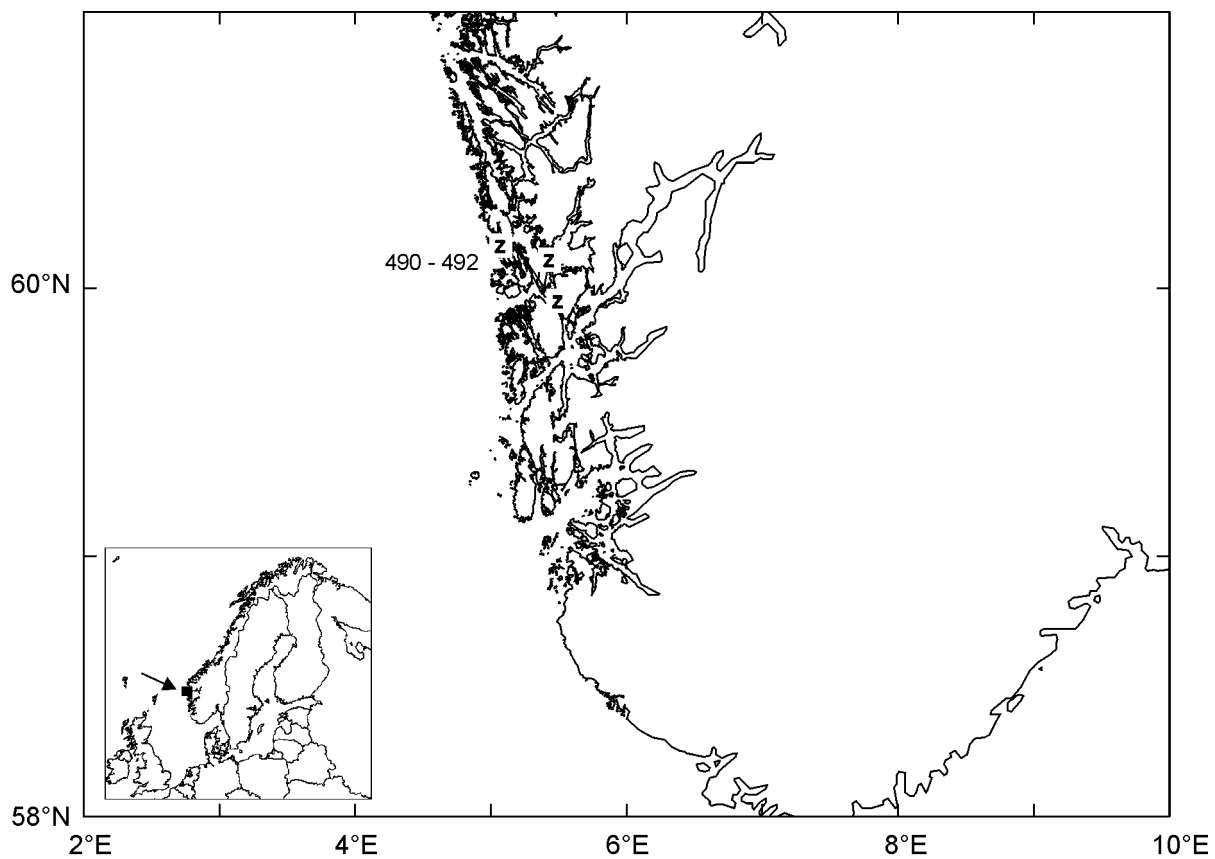
“G. O. Sars”



16–25 Nov 2006
Cruise no 2006116

z CTD st.no 481–489

“G. O. Sars”

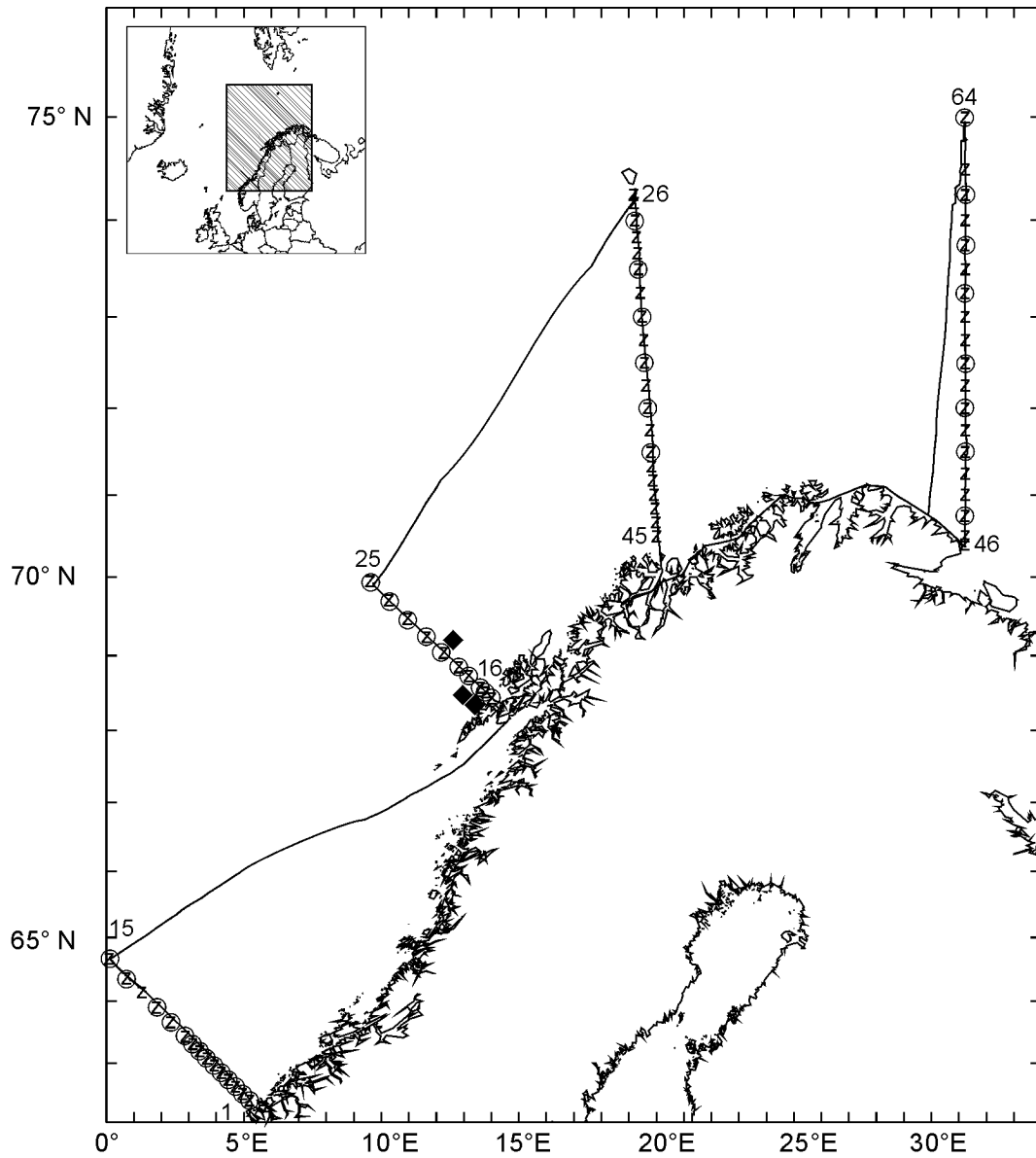


5-8 Dec 2006
Cruise no 2006118

z CTD st.no 490-492

"G. O. Sars"

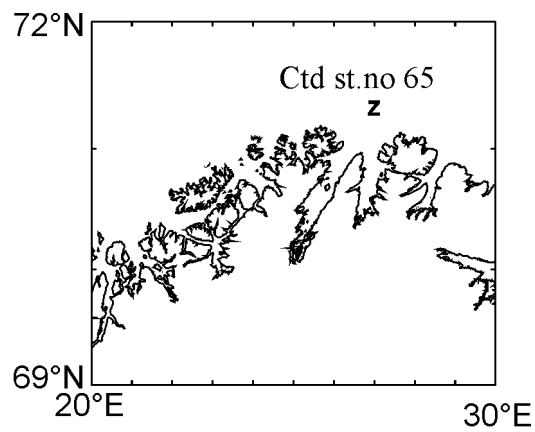
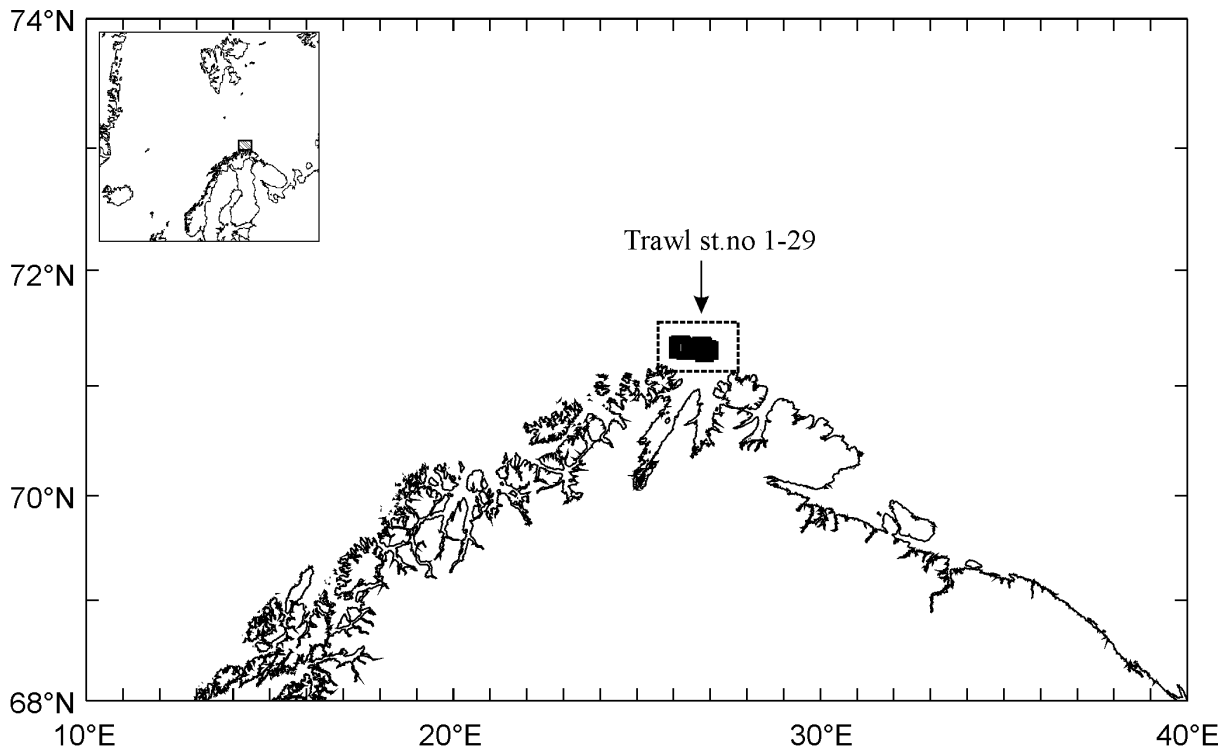
4.2 Johan Hjort



18 Jan–4 Feb 2006
Cruise no 2006201

z CTD st.no 1–64
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

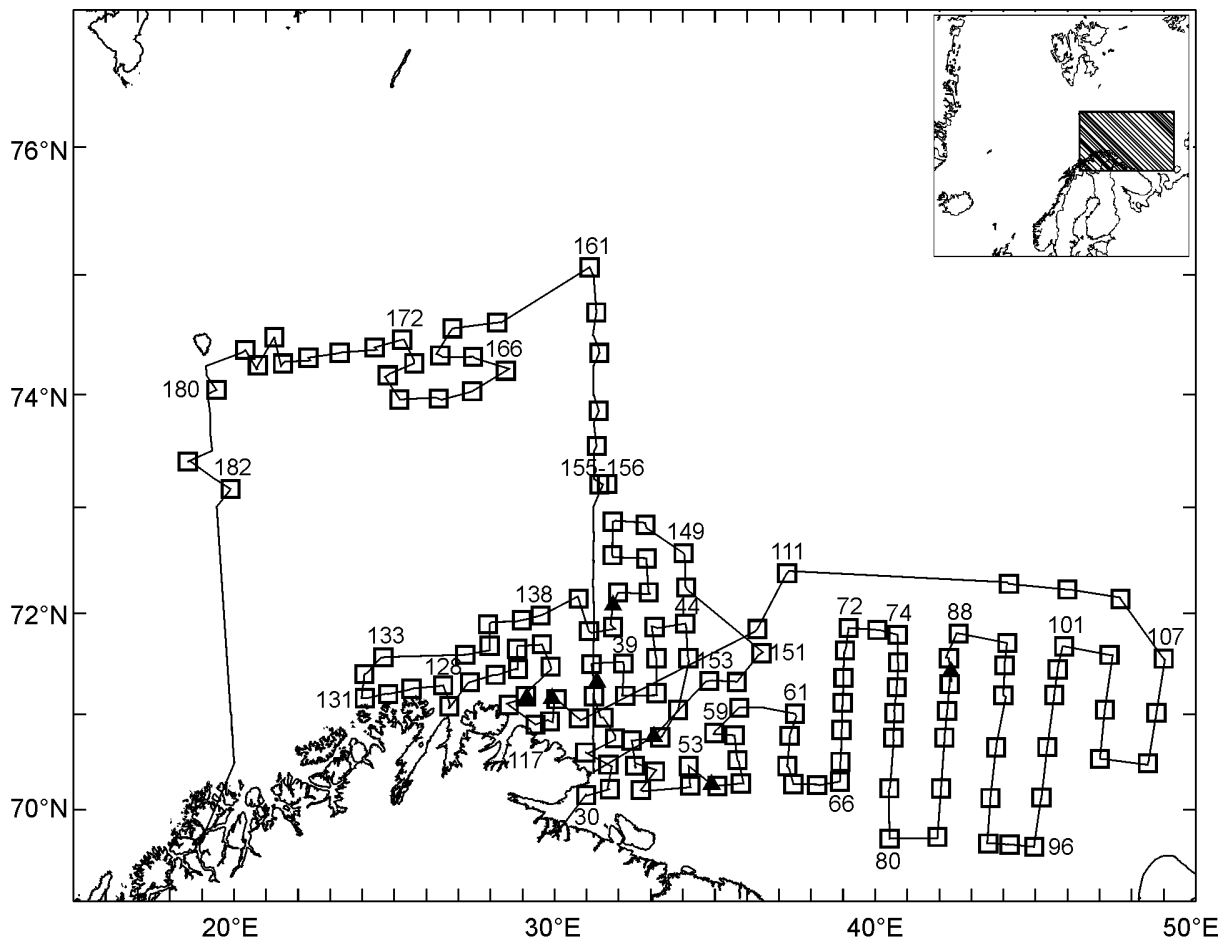
“Johan Hjort”



6–10 Feb 2006
Cruise no 2006202

z CTD st.no 65
□ Bottom trawl st.no 1–29

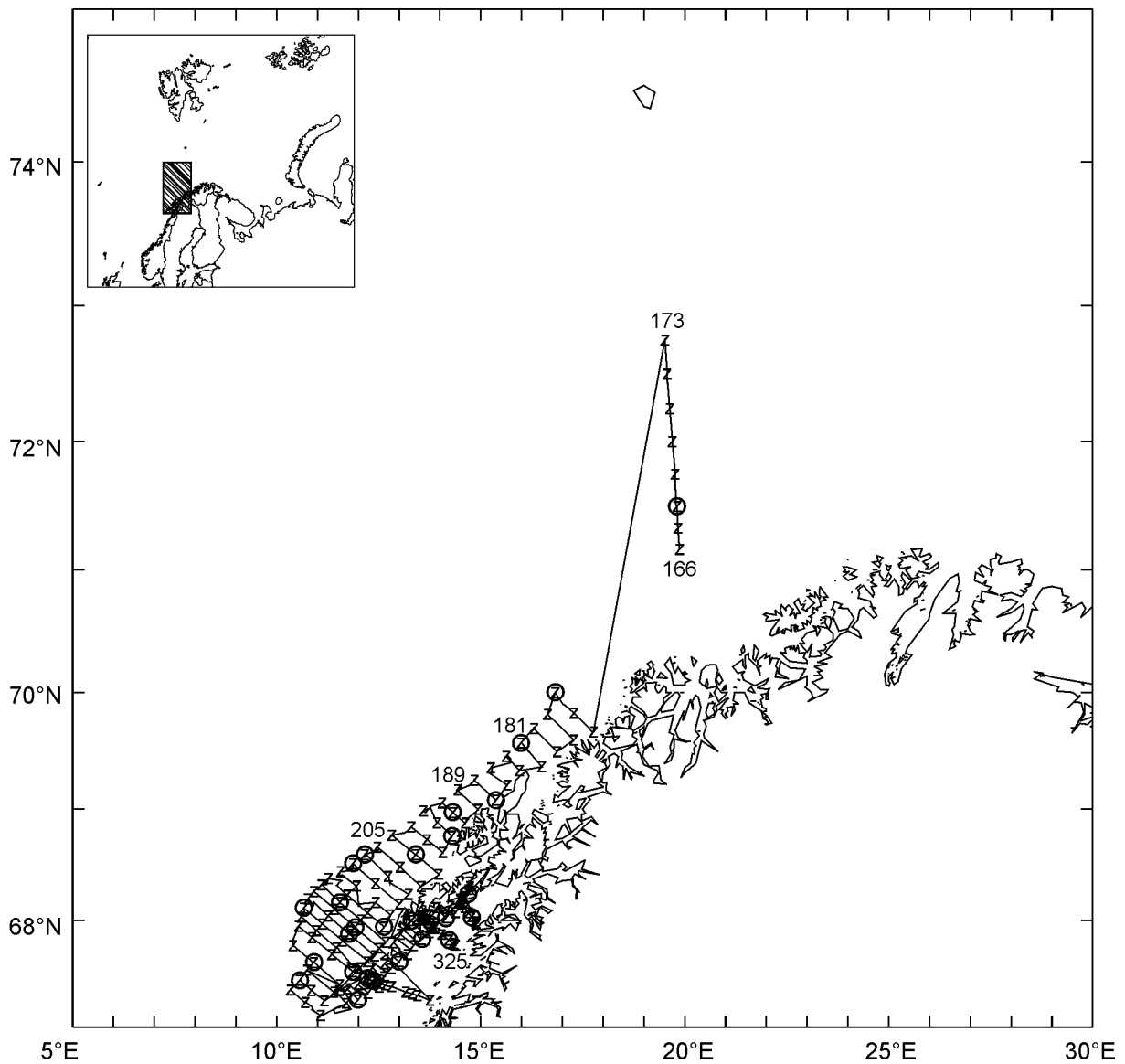
“Johan Hjort”



11 Feb–15 Mar 2006
Cruise no 2006203

Trawl st.no 30–182
 □ Bottom trawl
 ▲ Pelagic trawl

“Johan Hjort”



17 Mar–6 Apr 2006
Cruise no 2006204

z CTD st.no 166–325

“Johan Hjort”

o Plankton st. (WP-II-net)

Standard section:

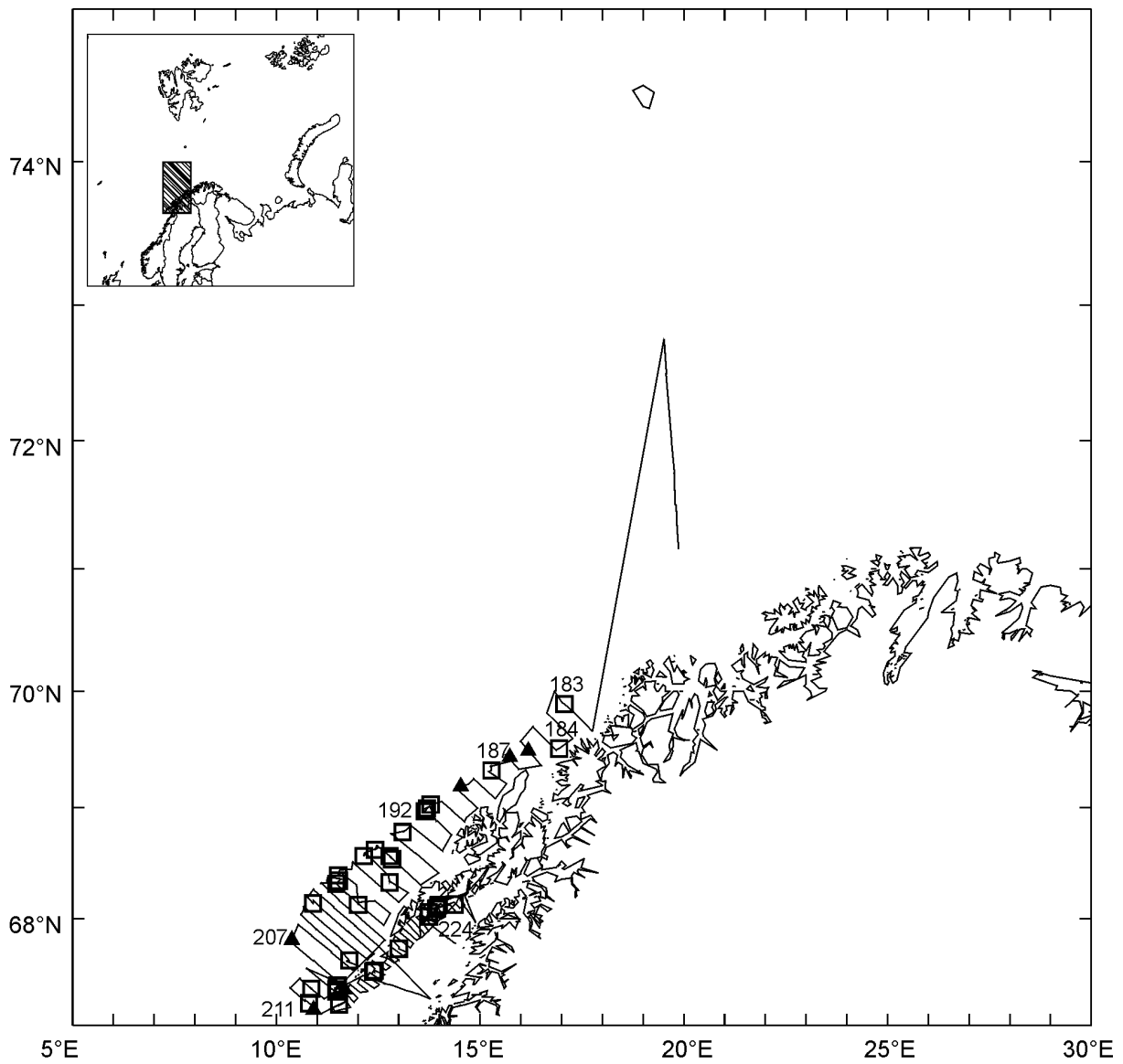
Fugløya–Bjørnøya (partly) st.no 166–173

Røst–Tennholmen

Ballstad–Måløy/Skarholmen

Other oceanographic section:

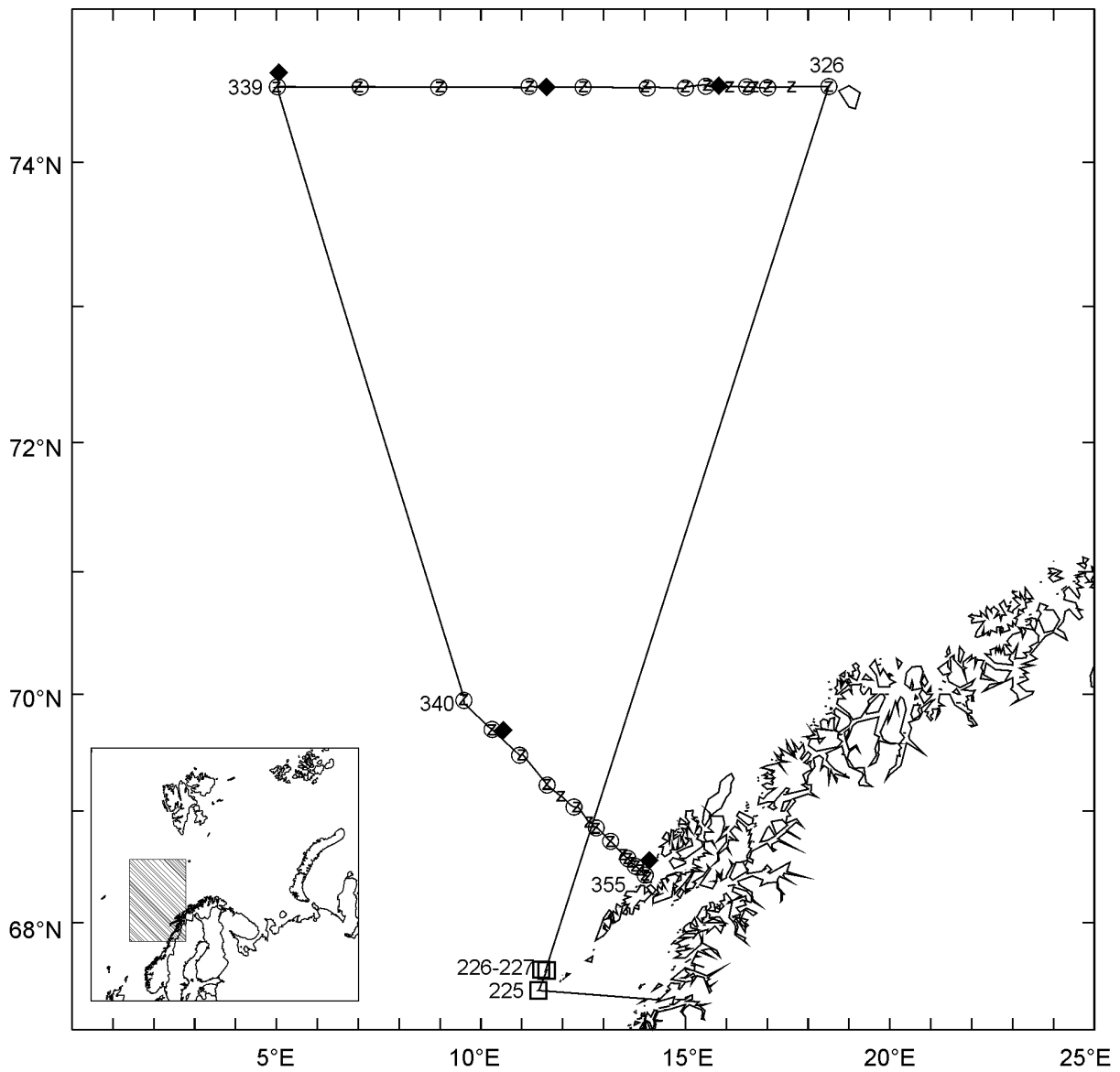
Kabelvåg–Steigen



17 Mar–6 Apr 2006
Cruise no 2006204

Trawl st.no 183–224
▲ Bottom trawl
□ Pelagic trawl

“Johan Hjort”

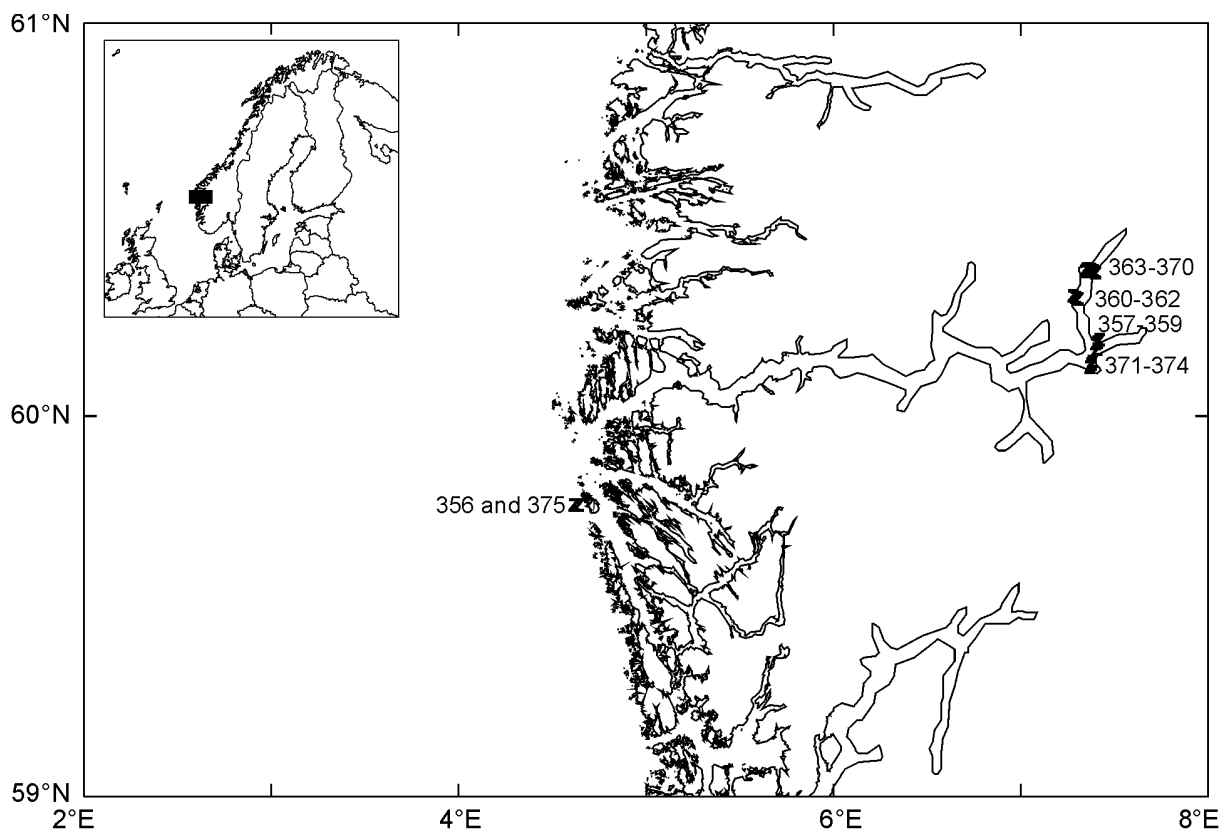


7–17 Apr 2006
Cruise no 2006205

z CTD st.no 326–355
o Plankton st. (WP-II-net)
◆ Plankton st. (Mocness)
□ Bottom trawl st.no 225–227

“Johan Hjort”

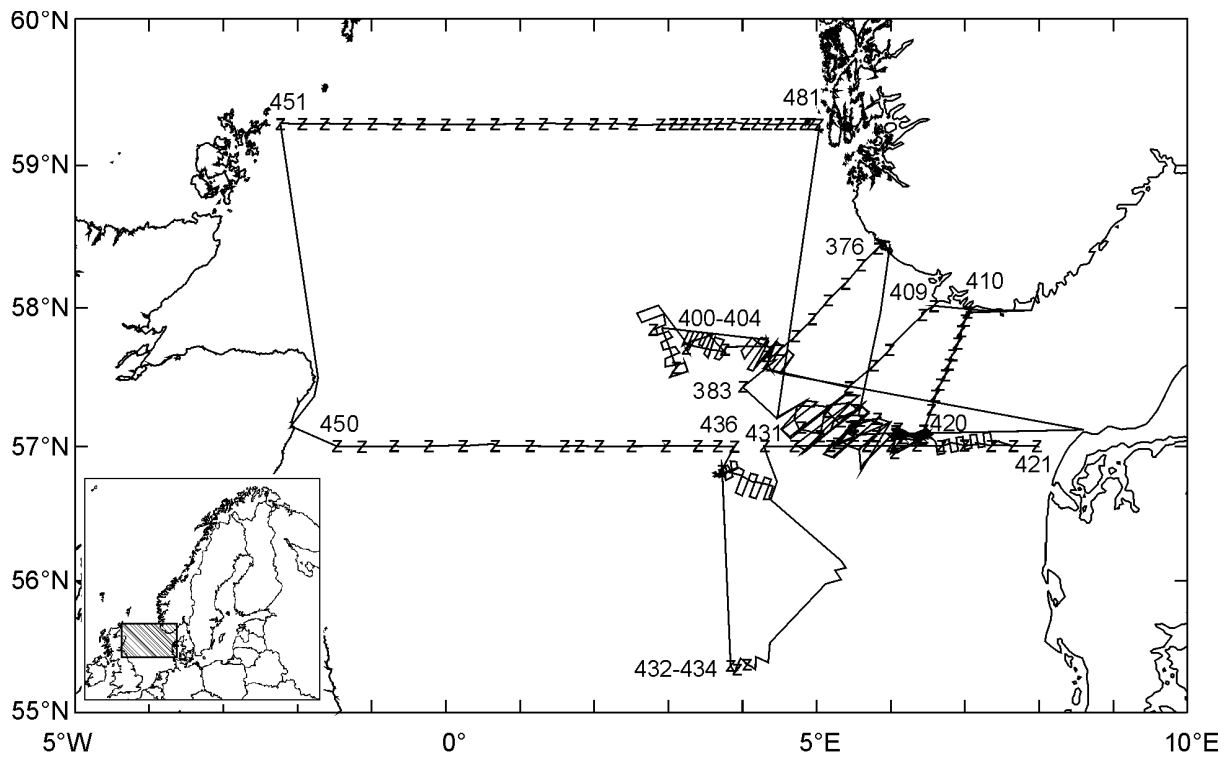
Standard section:
Gimsøy-NW st.no 340–355
Bjørnøya-W st.no 326–339



18–21 Apr 2006
Cruise no 2006206

z CTD st.no 356–375

“Johan Hjort”



24 Apr–19 May 2006
Cruise no 2006207

z CTD st.no 376–486

“Johan Hjort”

Standard sections:

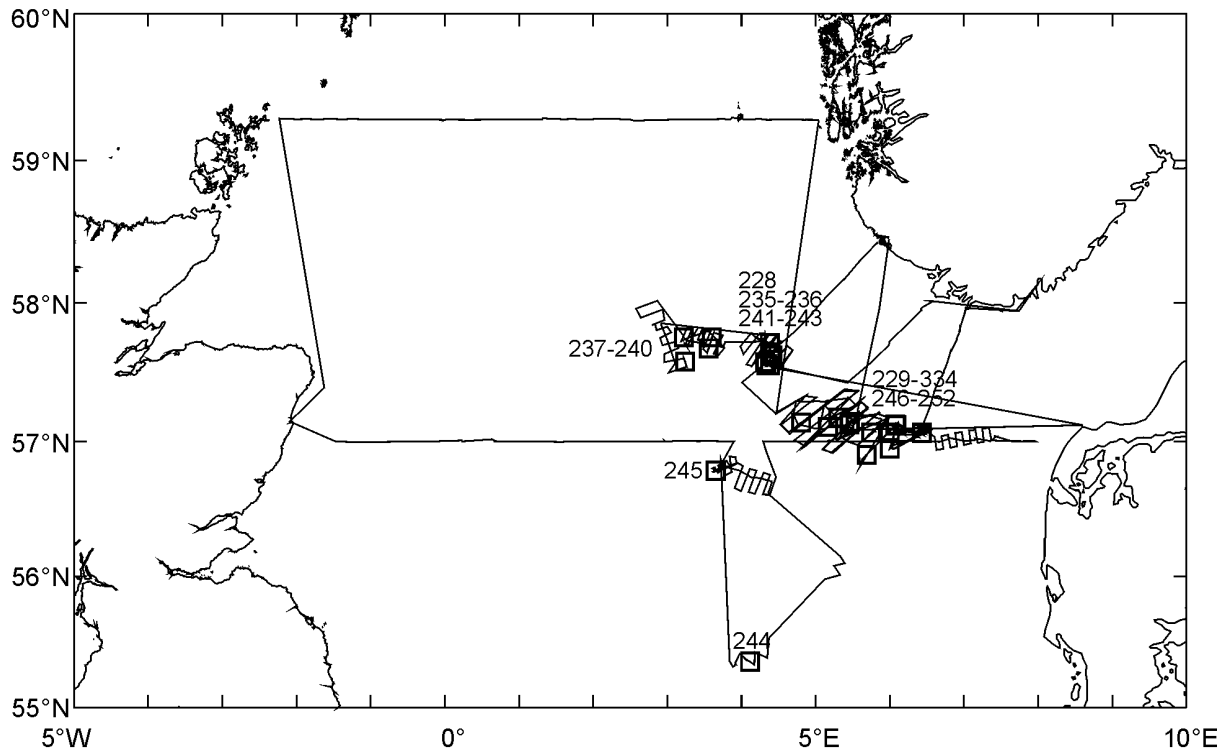
Utsira-W st.no 451–481

Hanstholm–Aberdeen st.no 421–431, 436–450

Lindesnes-SSW st.no 410–420

Egerøya-SW st.no 376–483

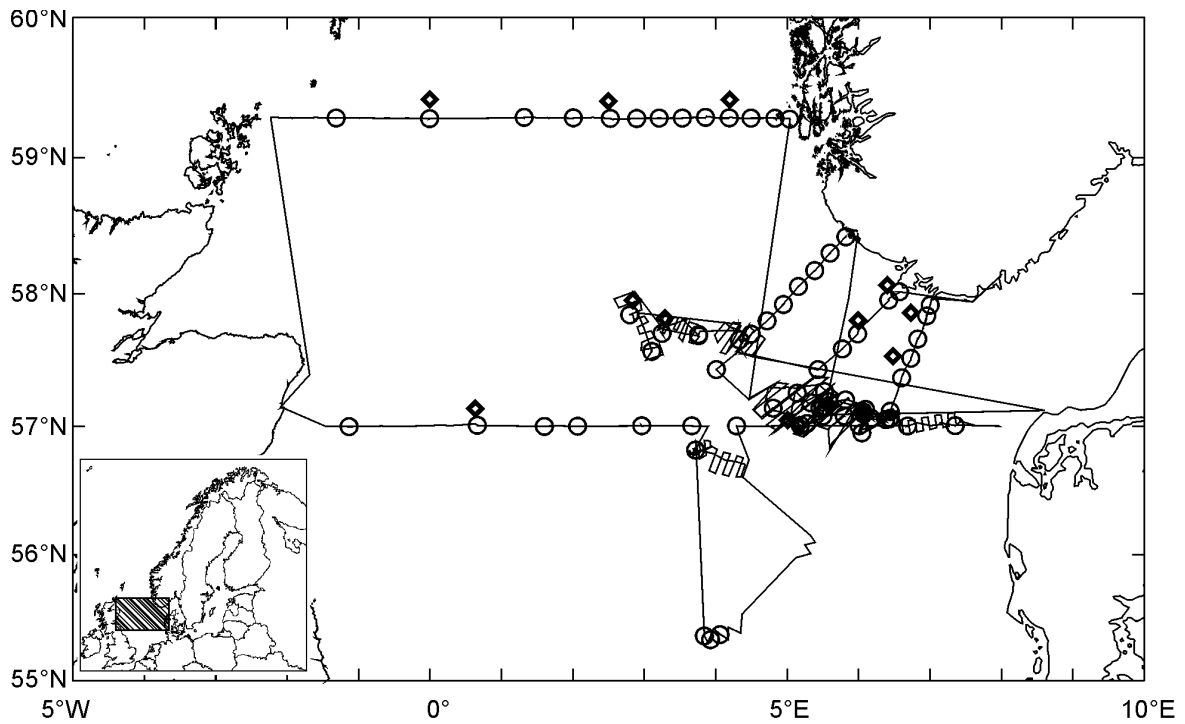
Lista-SW st.no 403-409



24 Apr–19 May 2006
Cruise no 2006207

□ Bottom trawl st.no 228–252

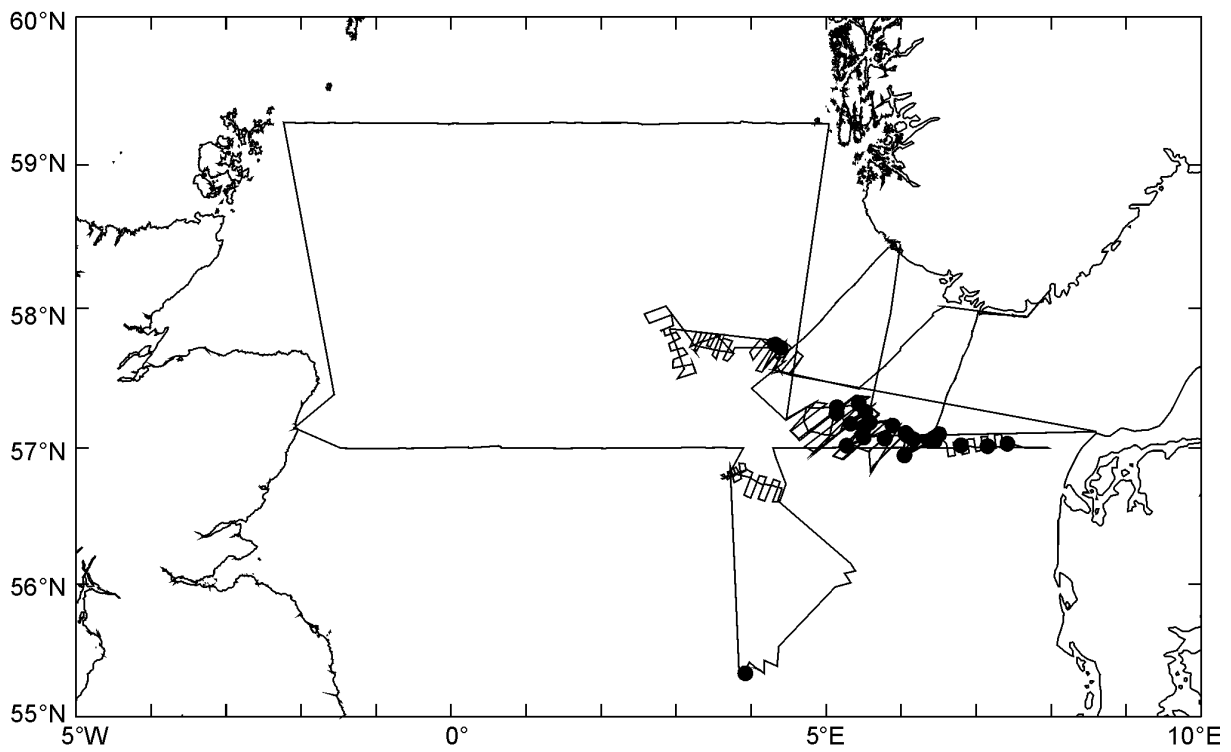
“Johan Hjort”



24 Apr–19 May 2006
Cruise no 2006207

○ Plankton st. (WP-II-net)
◇ Mocness st.

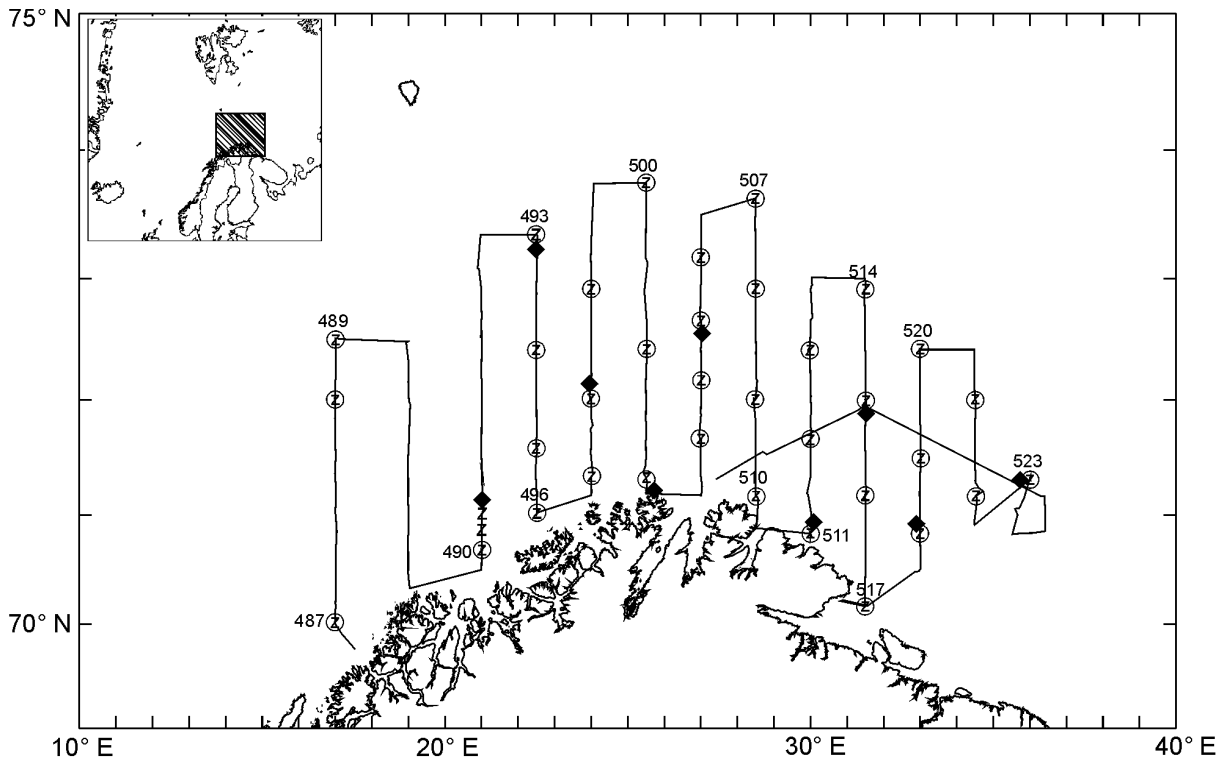
“Johan Hjort”



24 Apr–19 May 2006
Cruise no 2006207

● Grab stations

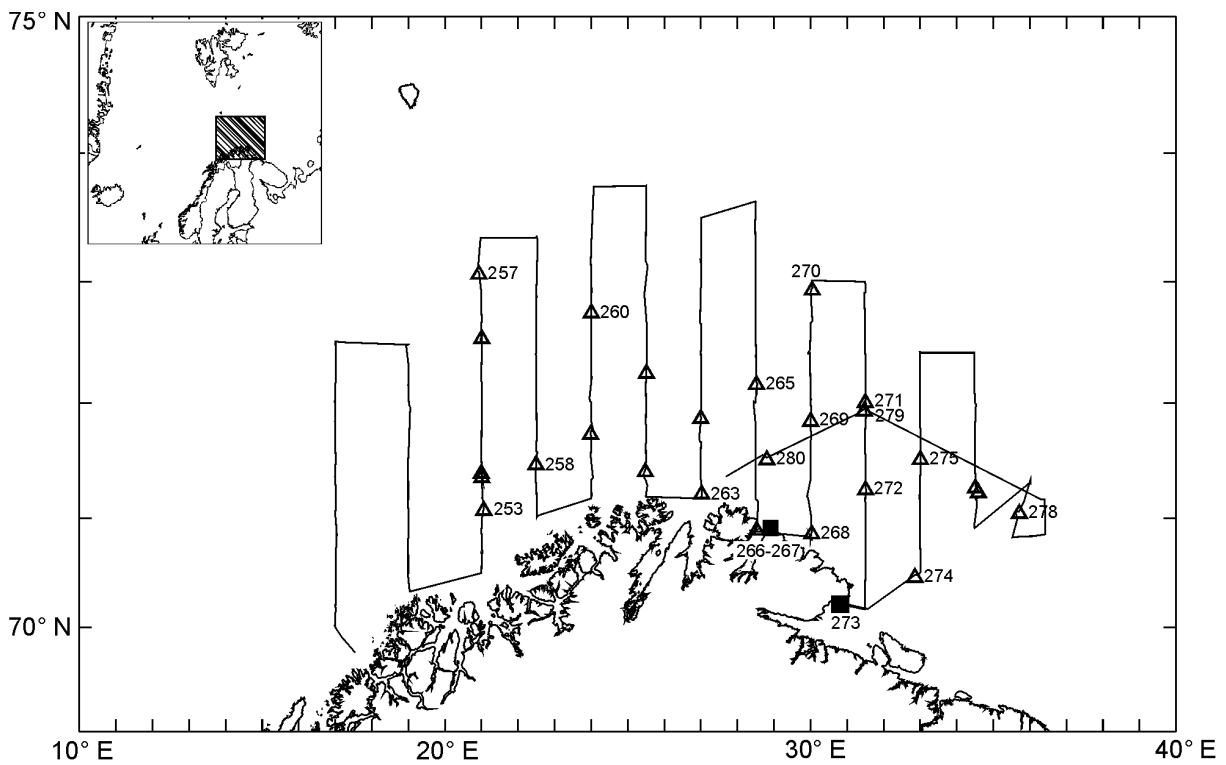
“Johan Hjort”



23 May–11 June 2006
Cruise no 2006208

z CTD st.no 487–523
o Plankton st. (WP-II-net)
◆ Mocness st.

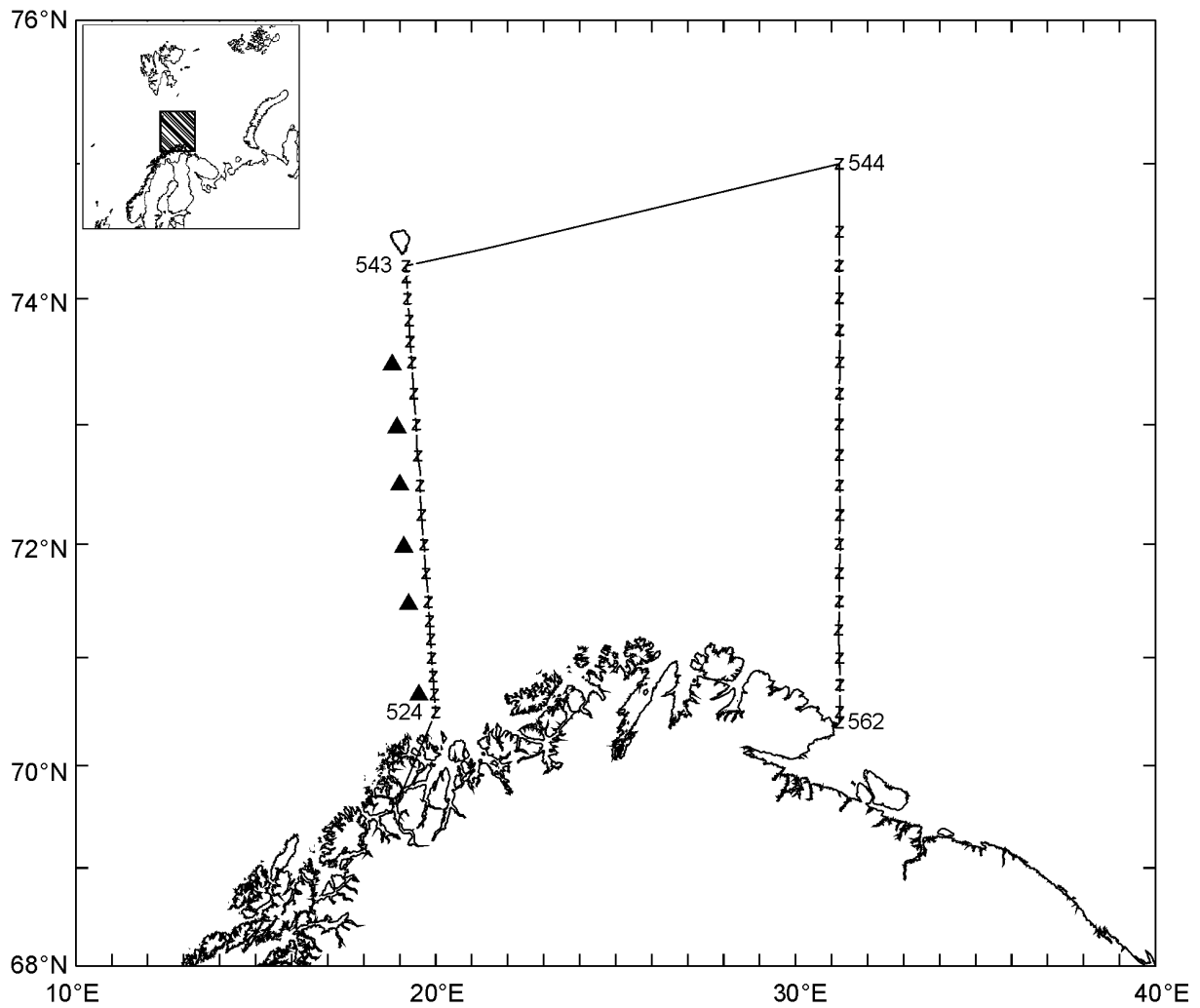
“Johan Hjort”



23 May–11 June 2006
Cruise no 2006208

Trawl st.no 253–280
△ Pelagic trawl
■ Bottom trawl

“Johan Hjort”



16–24 June 2006
Cruise no 2006209

z CTD st.no 524–562

“Johan Hjort”

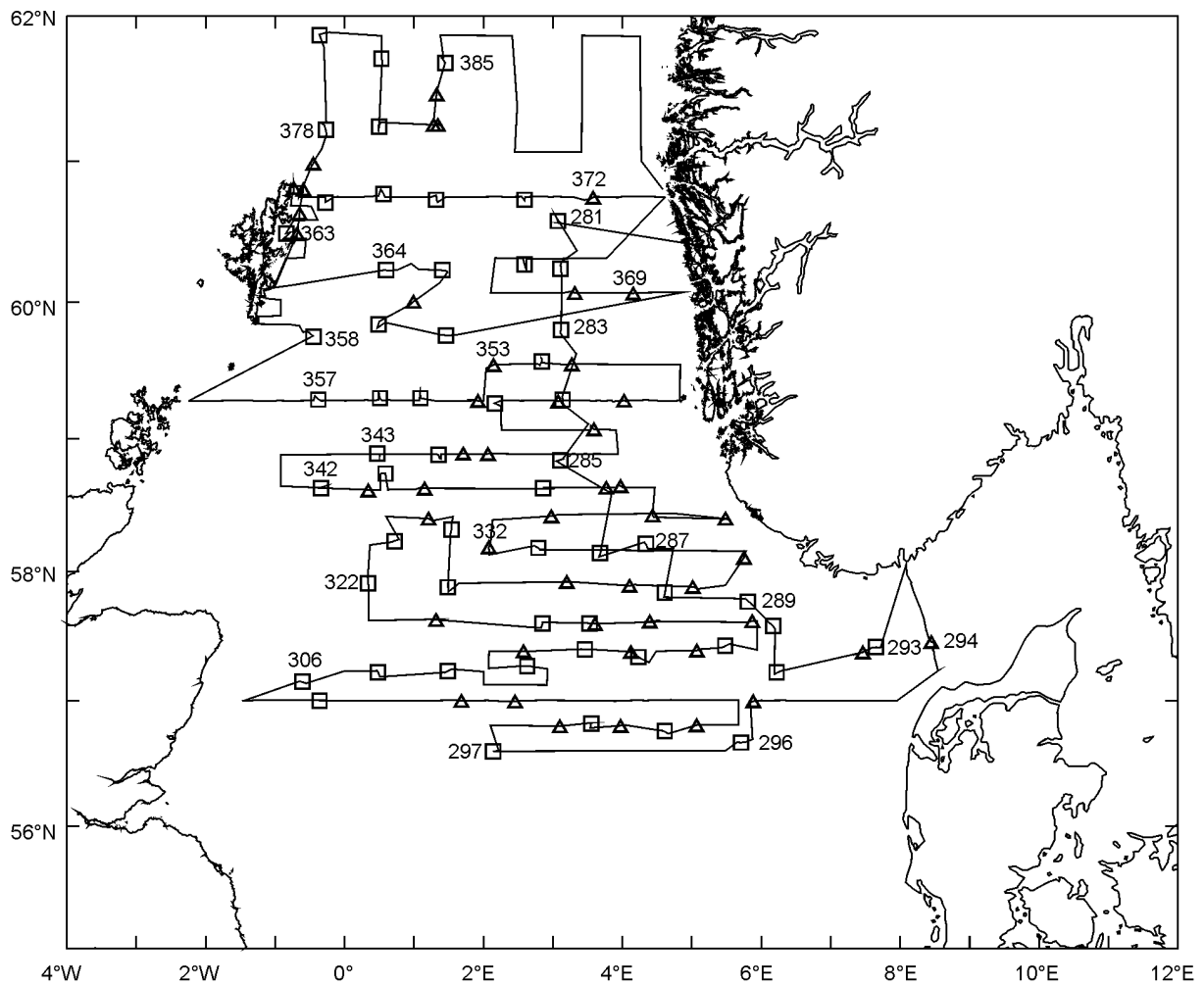
Standard sections:

Fugløya–Bjørnøya st.no 524–543

Vardø-N st.no 544–562

Plankton st. (WP-II-net)

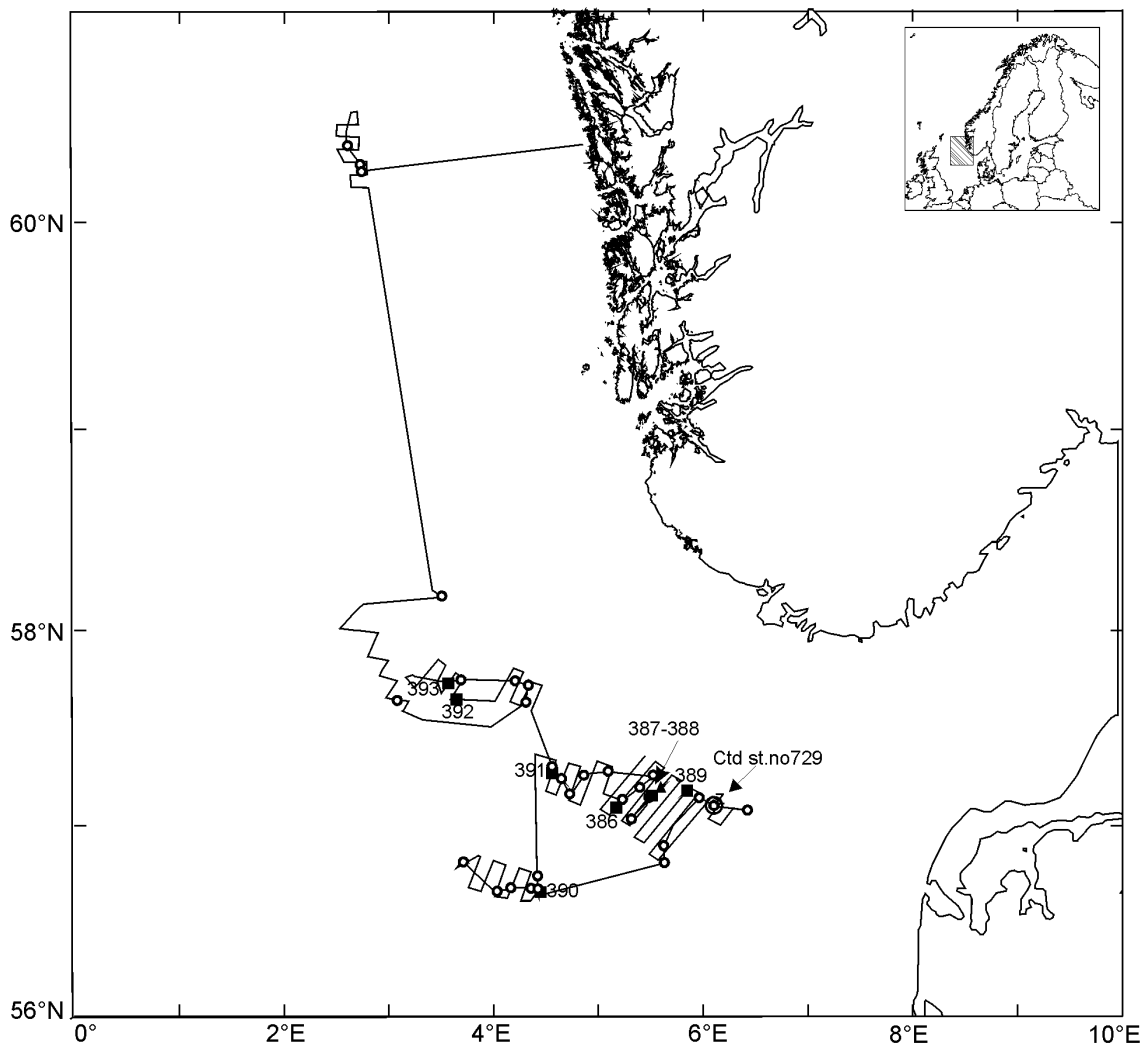
▲ Recovery and deployment of
moorings and bottom-mounted rigs



29 June–4 Aug 2006
 Cruise no 2006210
 Part I: 29 June–27 July

Trawl st.no 281–385
 □ Bottom trawl
 △ Pelagic trawl

“Johan Hjort”

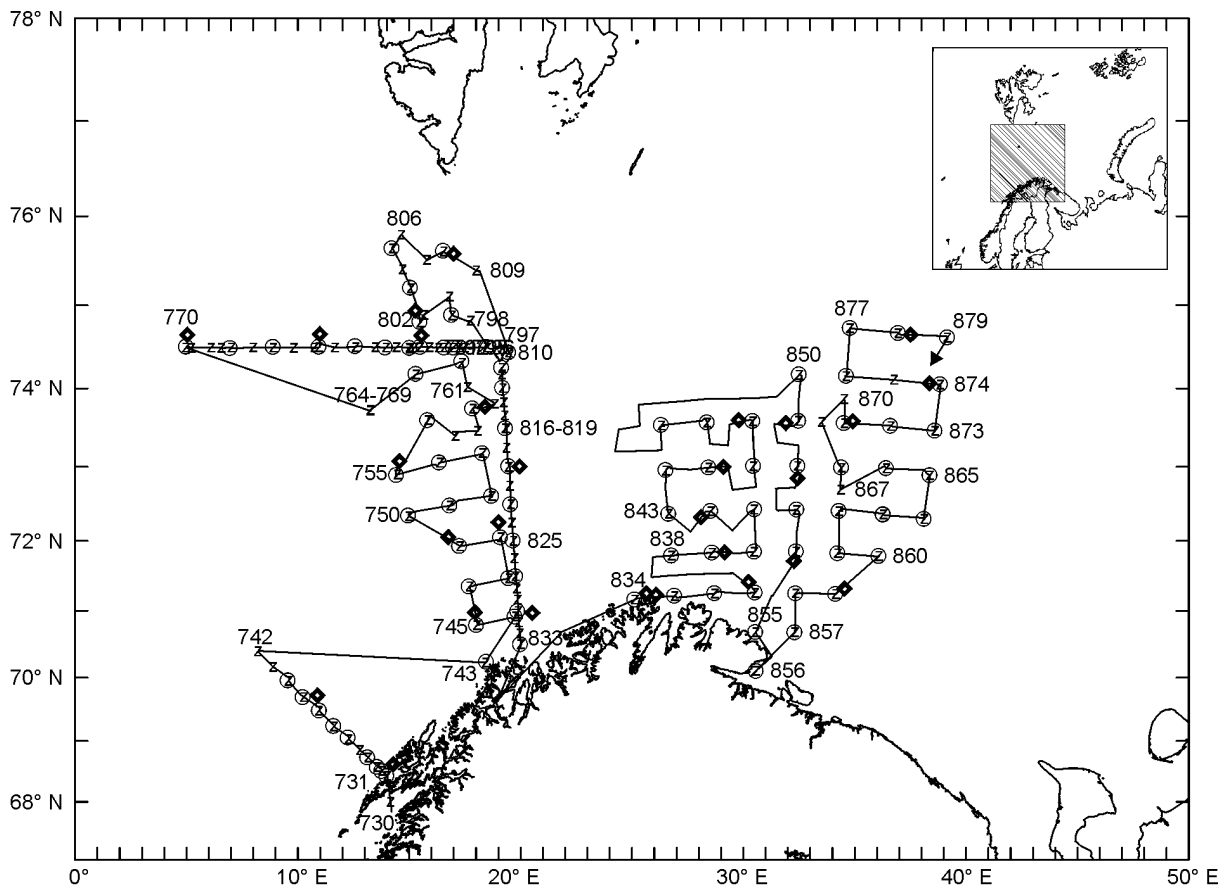


29 June–4 Aug 2006
 Cruise no 2006210
 Part II: 27 July–4 Aug

z CTD st.no 690–766
 Trawl st.no 386–393

“Johan Hjort”

- Bottom trawl
- ▲ Pelagic trawl
- Plankton st. (WP-II-net)
- Grab station



14 Aug–19 Sep 2006
Cruise no 2006211

z CTD st.no 730–879
o Plankton st. (WP-II-net)
◇ Moored st.

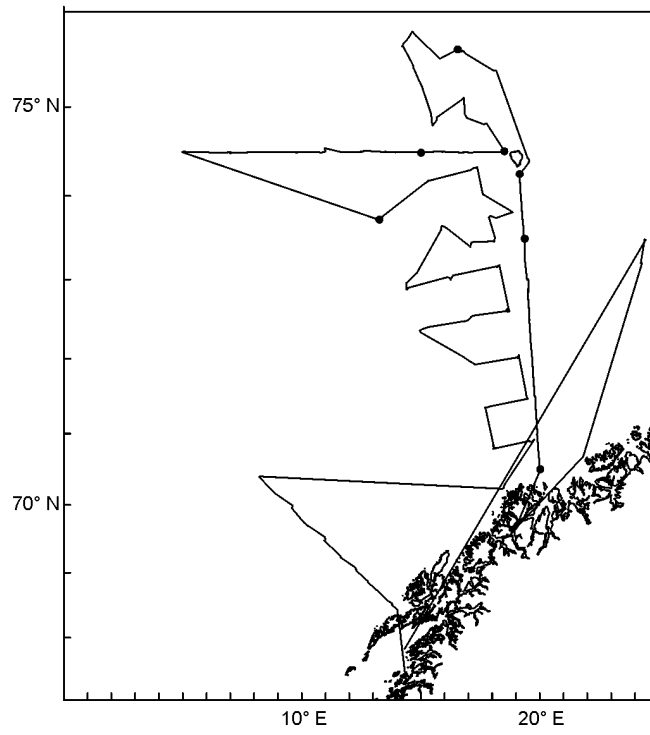
“Johan Hjort”

Standard sections:

Gimsøy-NW st.no 731–742

Fugløya-Bjørnøya st.no 810–833

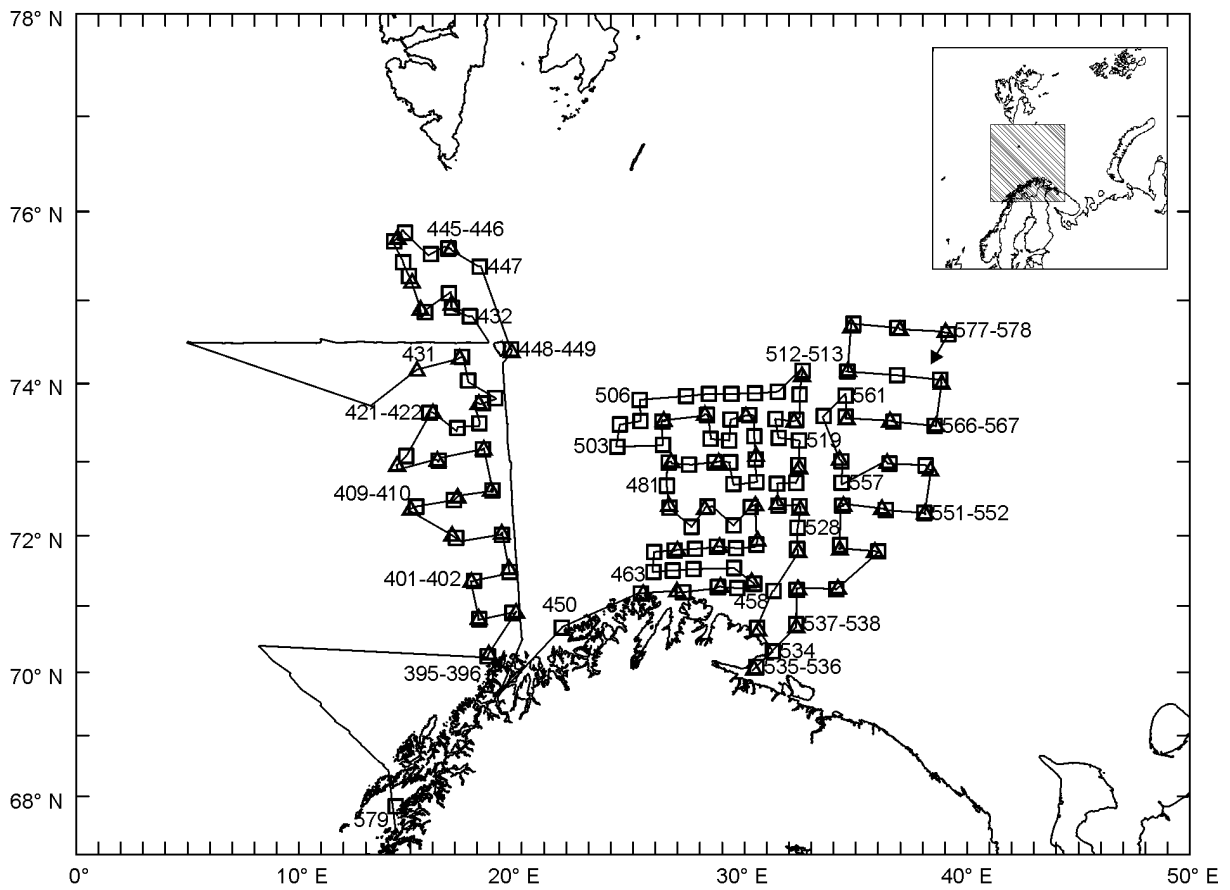
Bjørnøya-W st.no 770-797



14 Aug–19 Sep 2006
Cruise no 2006211

● Grab stations

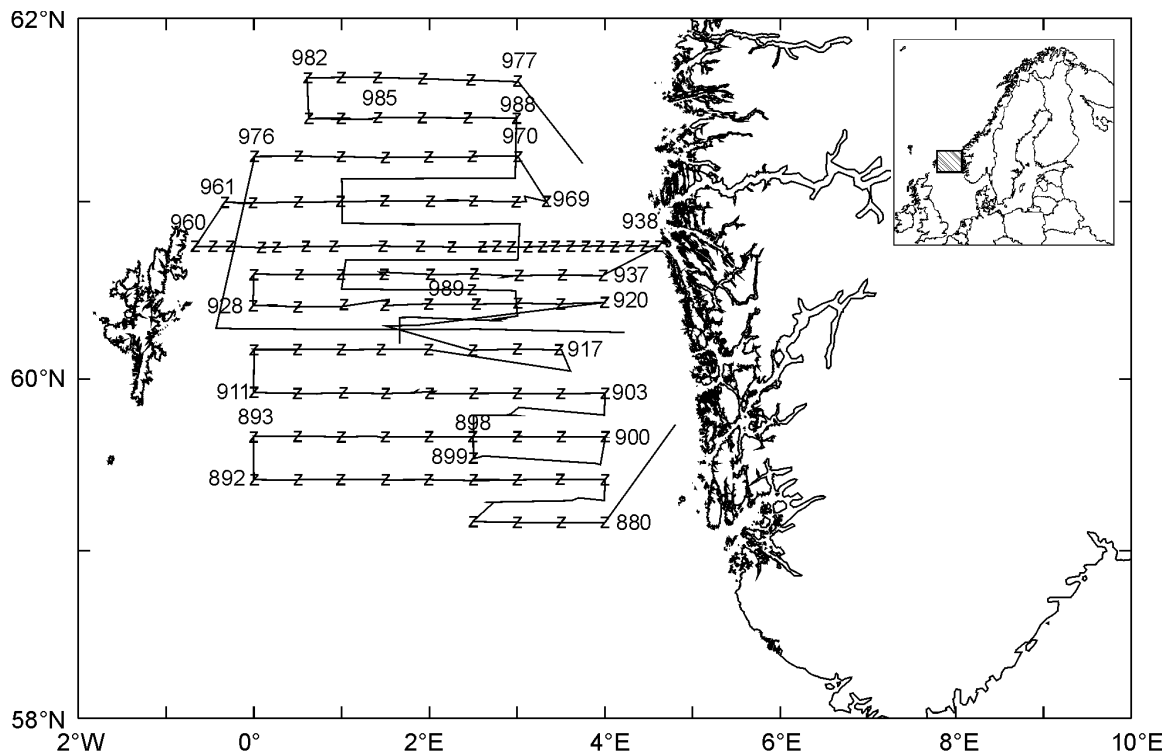
“Johan Hjort”



14 Aug–19 Sep 2006
 Cruise no 2006211

Trawl st.no 395–579
 □ Bottom trawl
 △ Pelagic trawl

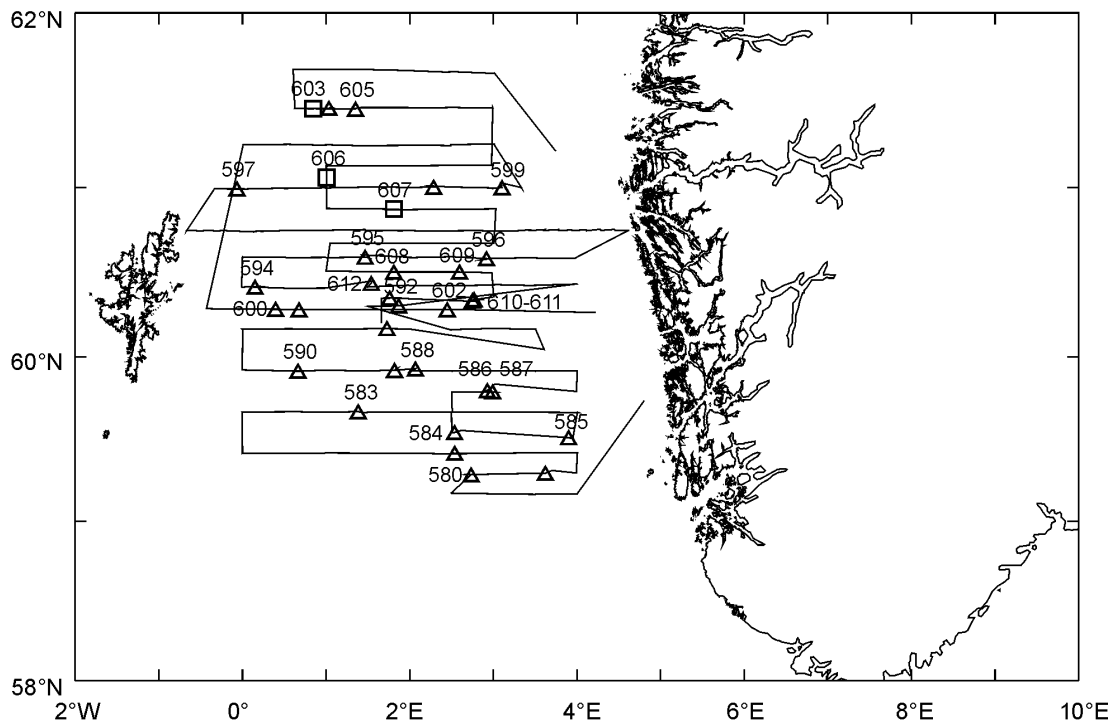
“Johan Hjort”



2–20 Oct 2006
Cruise no 2006212

z CTD st.no 880–989
Standard sections:
Fedje–Shetland st.no 938–960

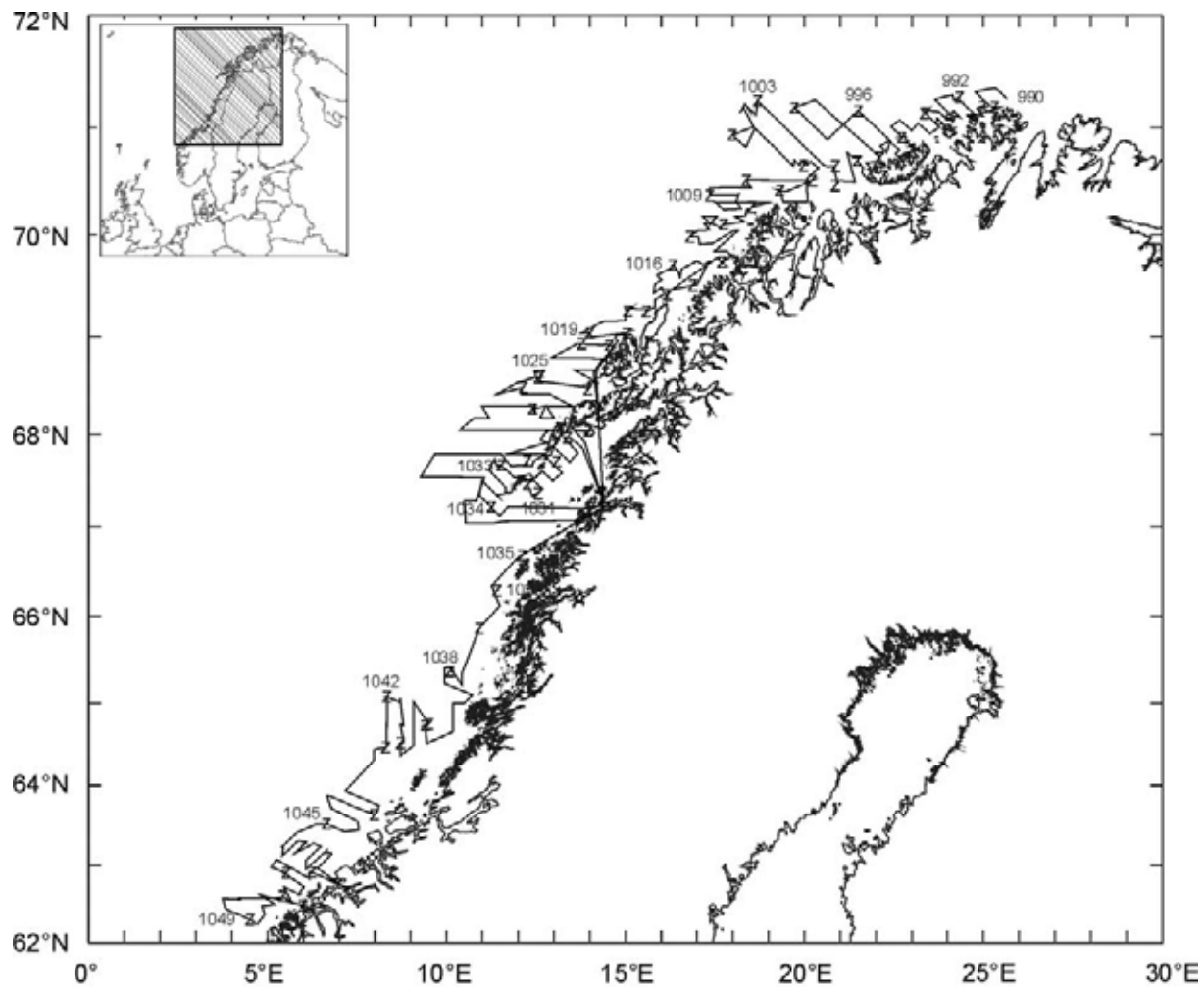
“Johan Hjort”



2–20 Oct 2006
Cruise no 2006212

Trawl st.no 580–612
□ Bottom trawl
△ Pelagic trawl

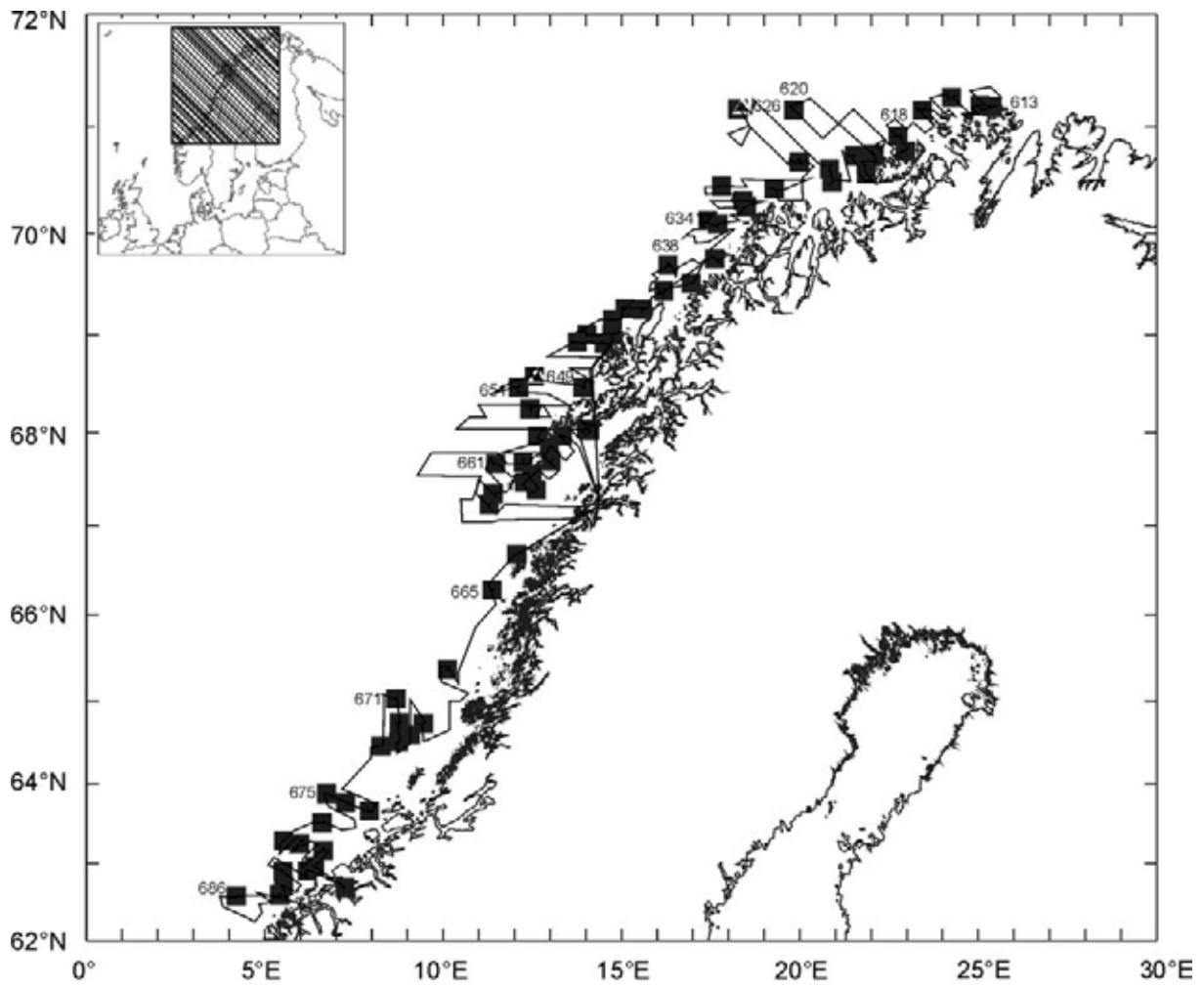
“Johan Hjort”



24 Oct–21 Nov 2006
Cruise no 2006213

z CTD st.no 990–1049

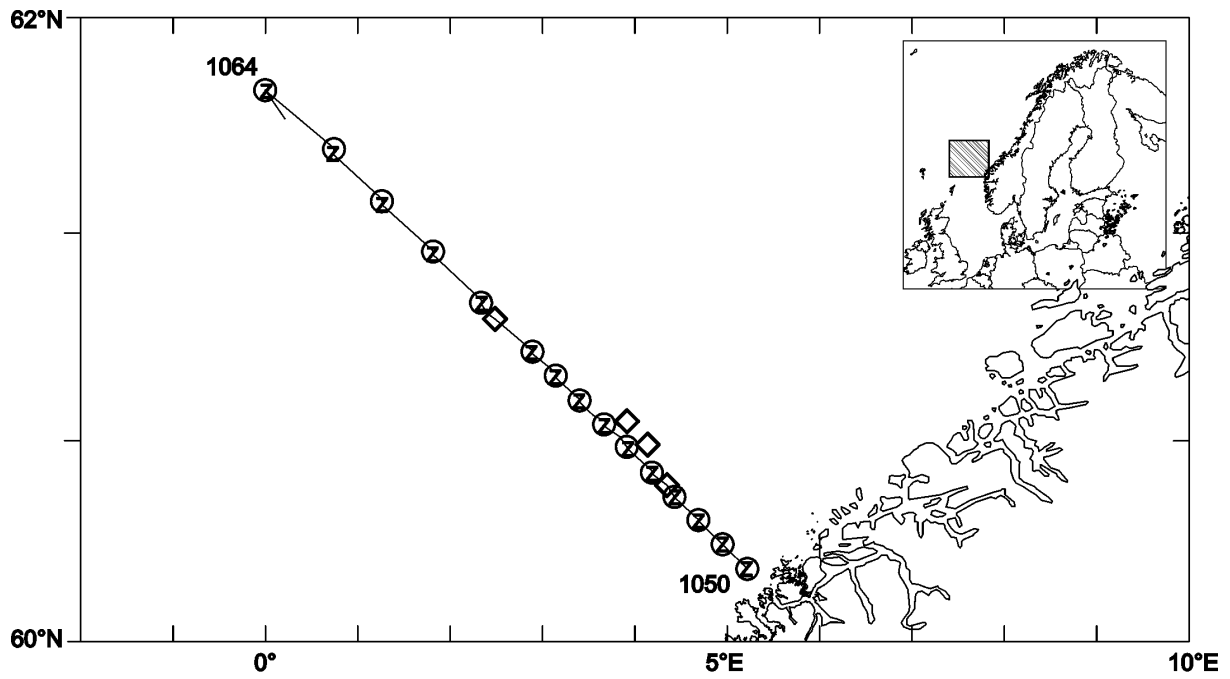
“Johan Hjort”



24 Oct–21 Nov 2006
Cruise no 2006213

Trawl st.no 613–686
 ■ Bottom trawl
 △ Pelagic trawl

“Johan Hjort”



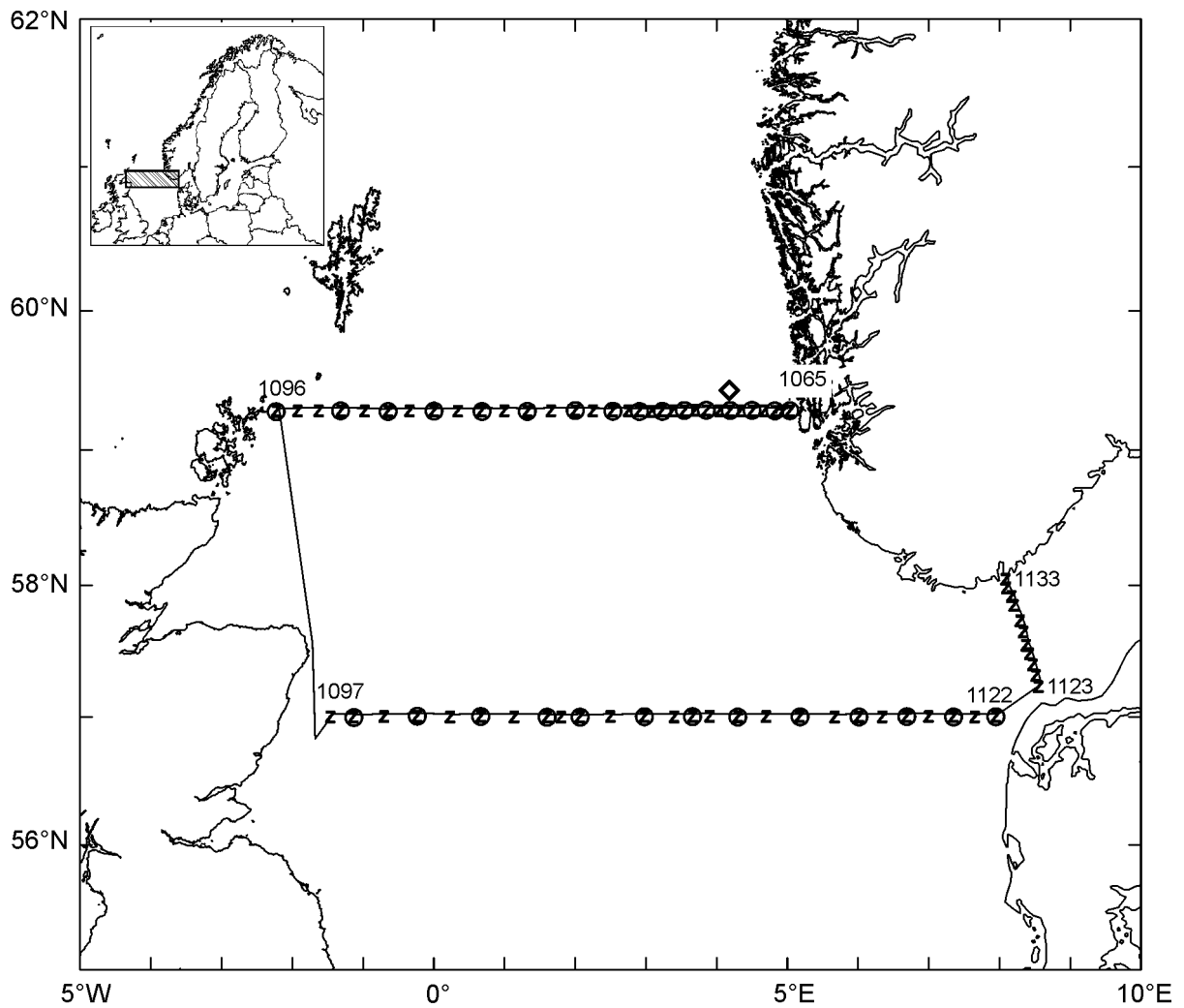
22–25 Nov 2006
Cruise no 2006214

z CTD st.no 1050–1064
o Plankton st. (WP-II-net)
◇ Mocness st.

“Johan Hjort”

Standard section:

Svinøy-NW st.no 1050–1064



26 Nov–3 Dec 2006
Cruise no 2006215

z CTD st.no 1065–1133

o Plankton (WP-II-net)

◇ Mocness stations

Standard sections:

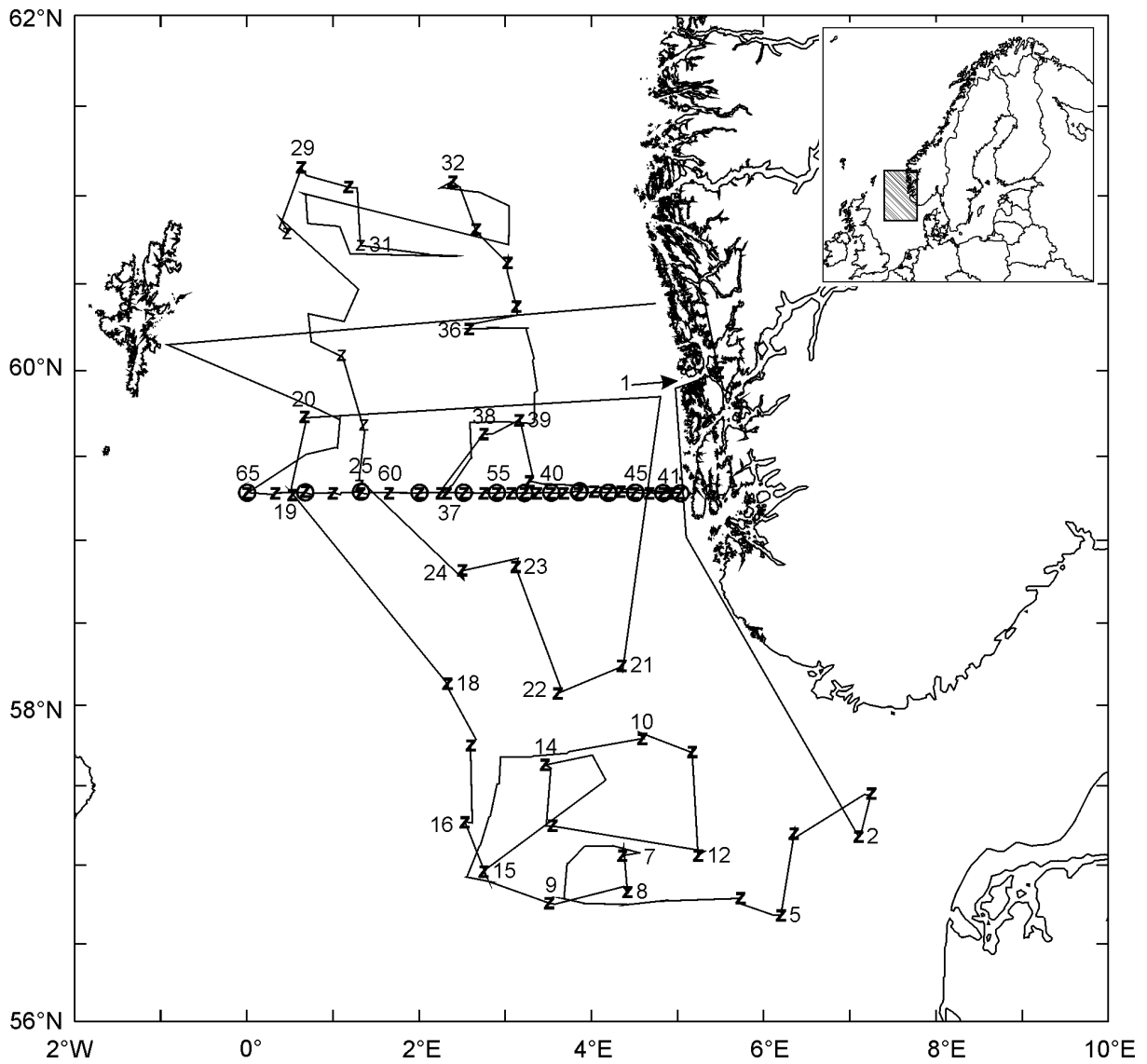
Utsira–W st.no 1065–1096

Hanstholm–Aberdeen st.no 1097–1122

Oksøy–Hanstholm st.no 1123–1133

“Johan Hjort”

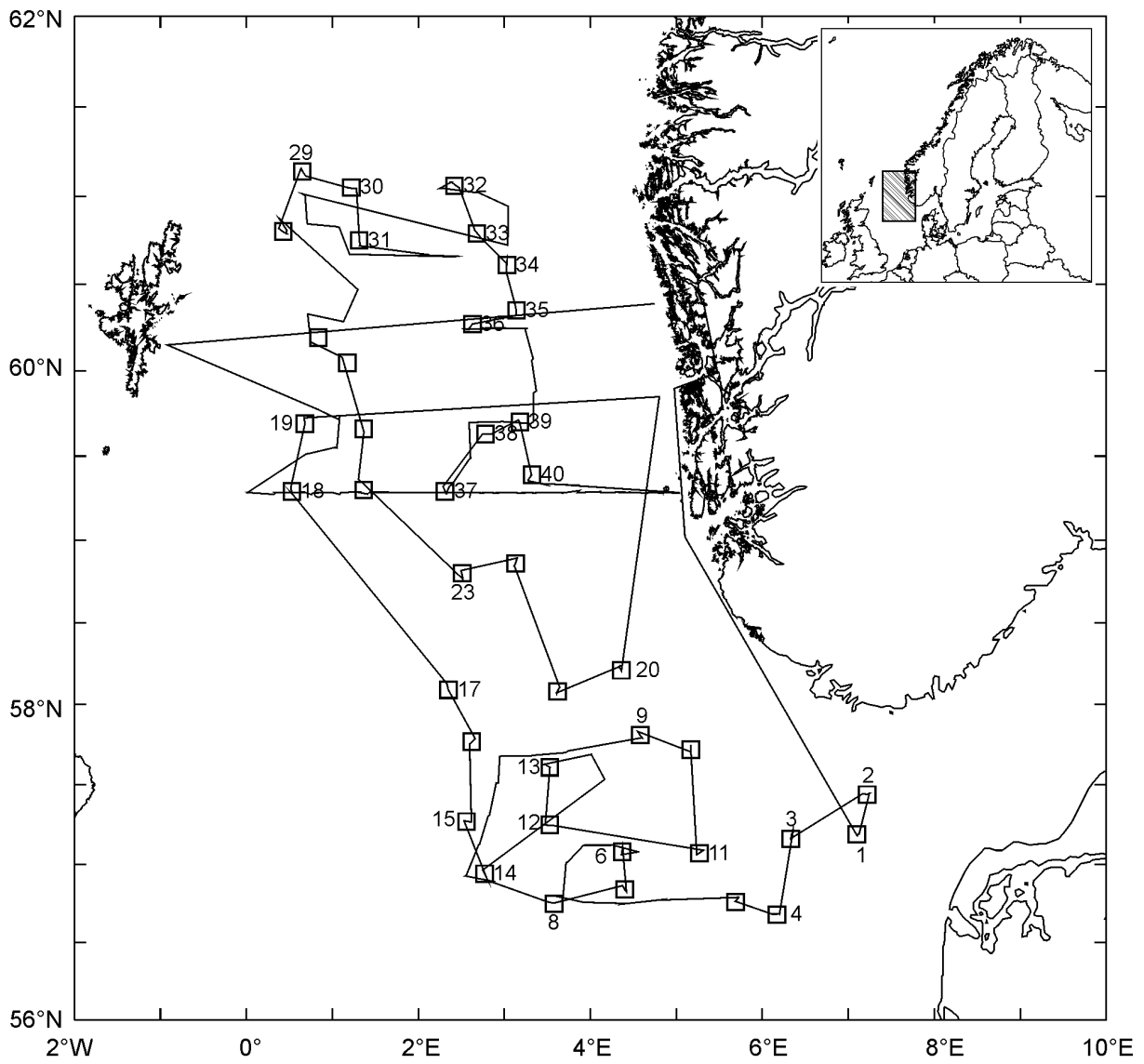
4.3 Håkon Mosby



10–31 Jan 2006
Cruise no 2006601

z CTD st.no 1–65
o Plankton st. (WP-II-net)
Standard section
Utsira-W st.no 41–65

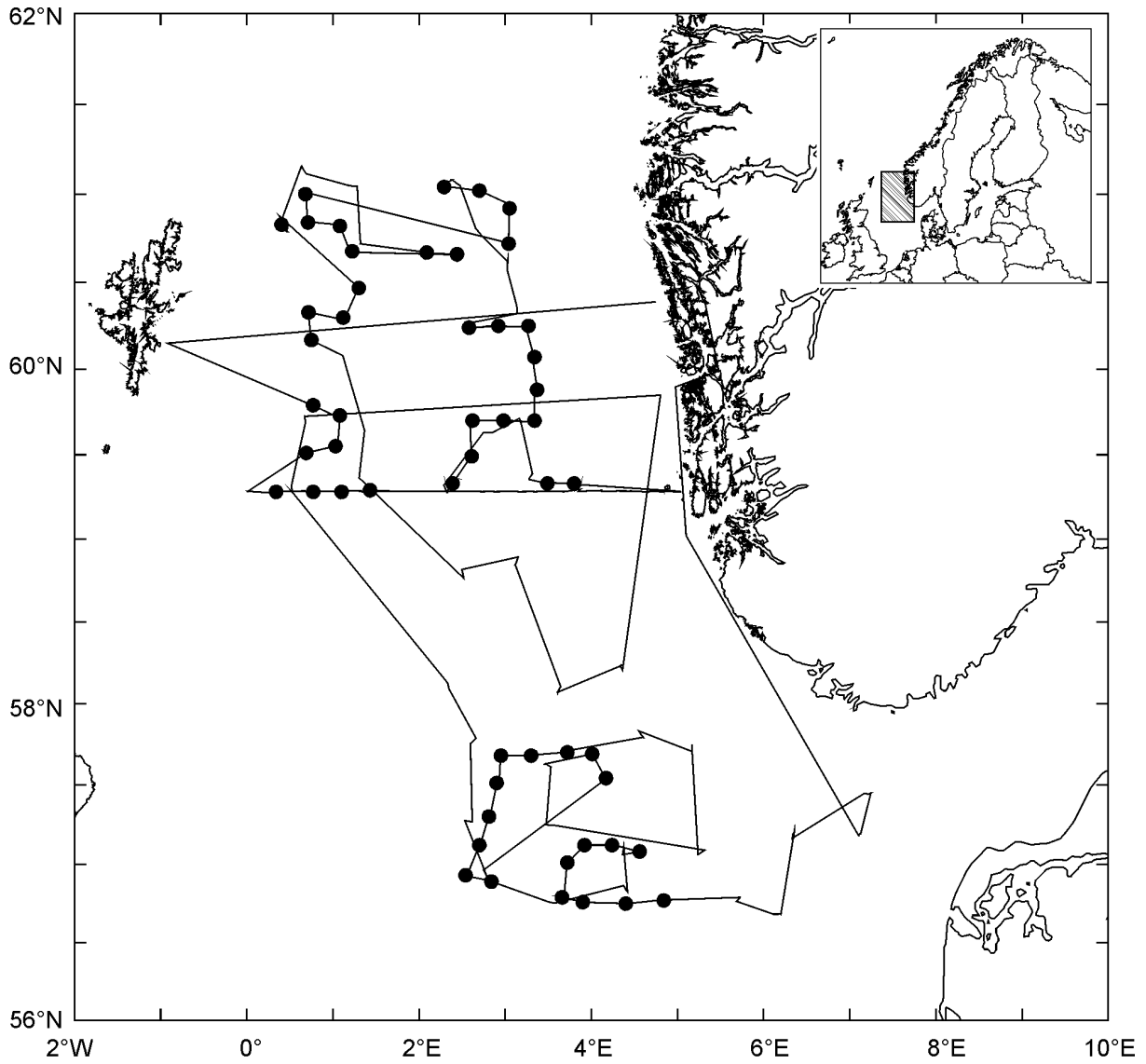
“Håkon Mosby”

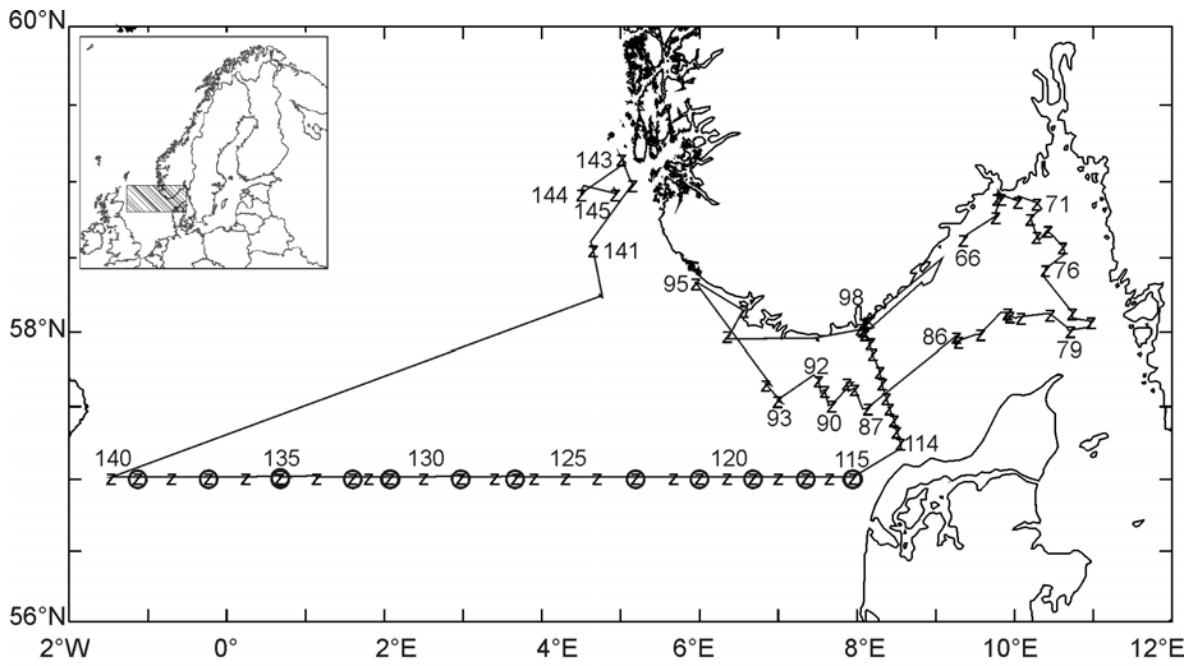


10–31 Jan 2006
Cruise no 2006601

□ Bottom trawl st.no 1–40

“Håkon Mosby”

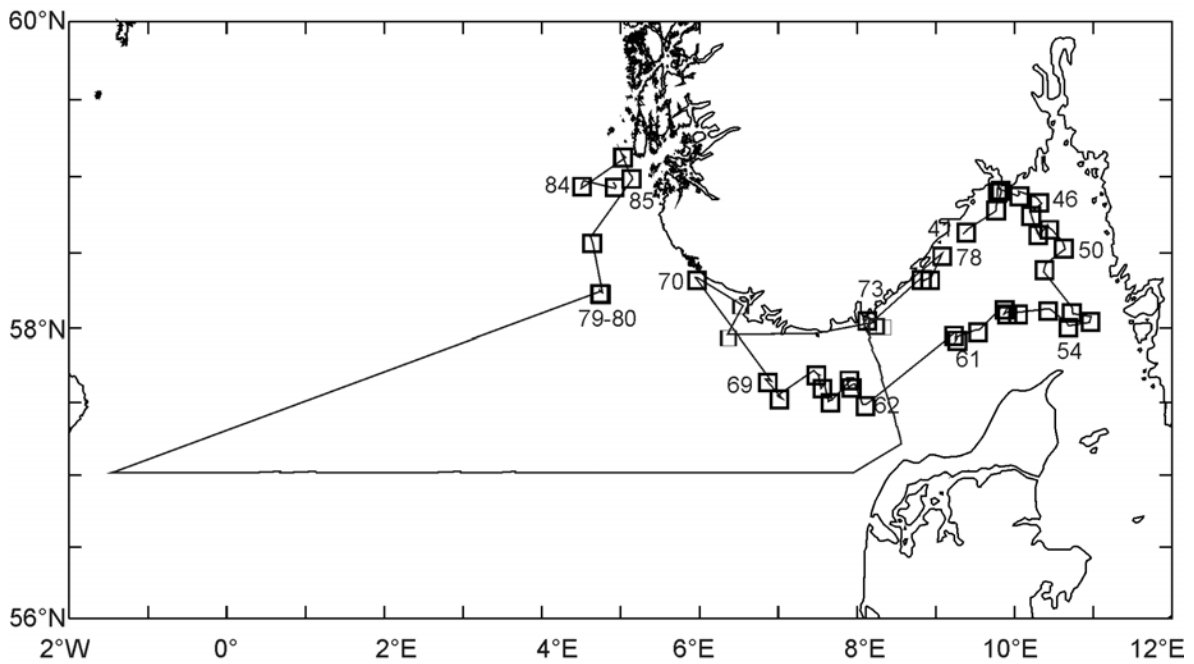




2–15 Feb 2006
Cruise no 2006602

z CTD st.no 66–145
o Plankton stations
Standard sections:
Oksøy–Hanstholm st.no 98–114
Hanstholm–Aberdeen st.no 115–140

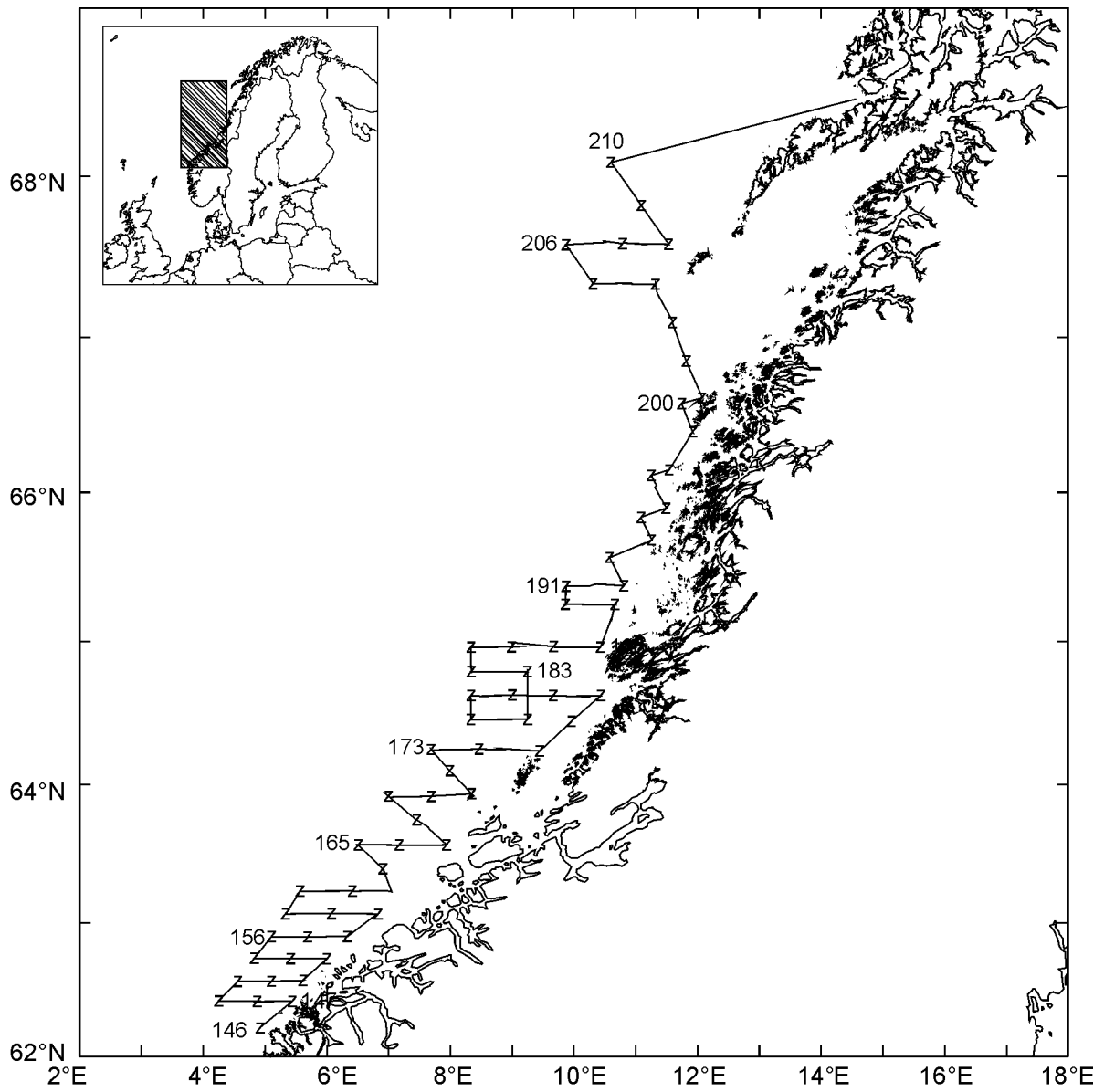
“Håkon Mosby”



2–15 Feb 2006
Cruise no 2006602

□ Bottom trawl st.no 41–85

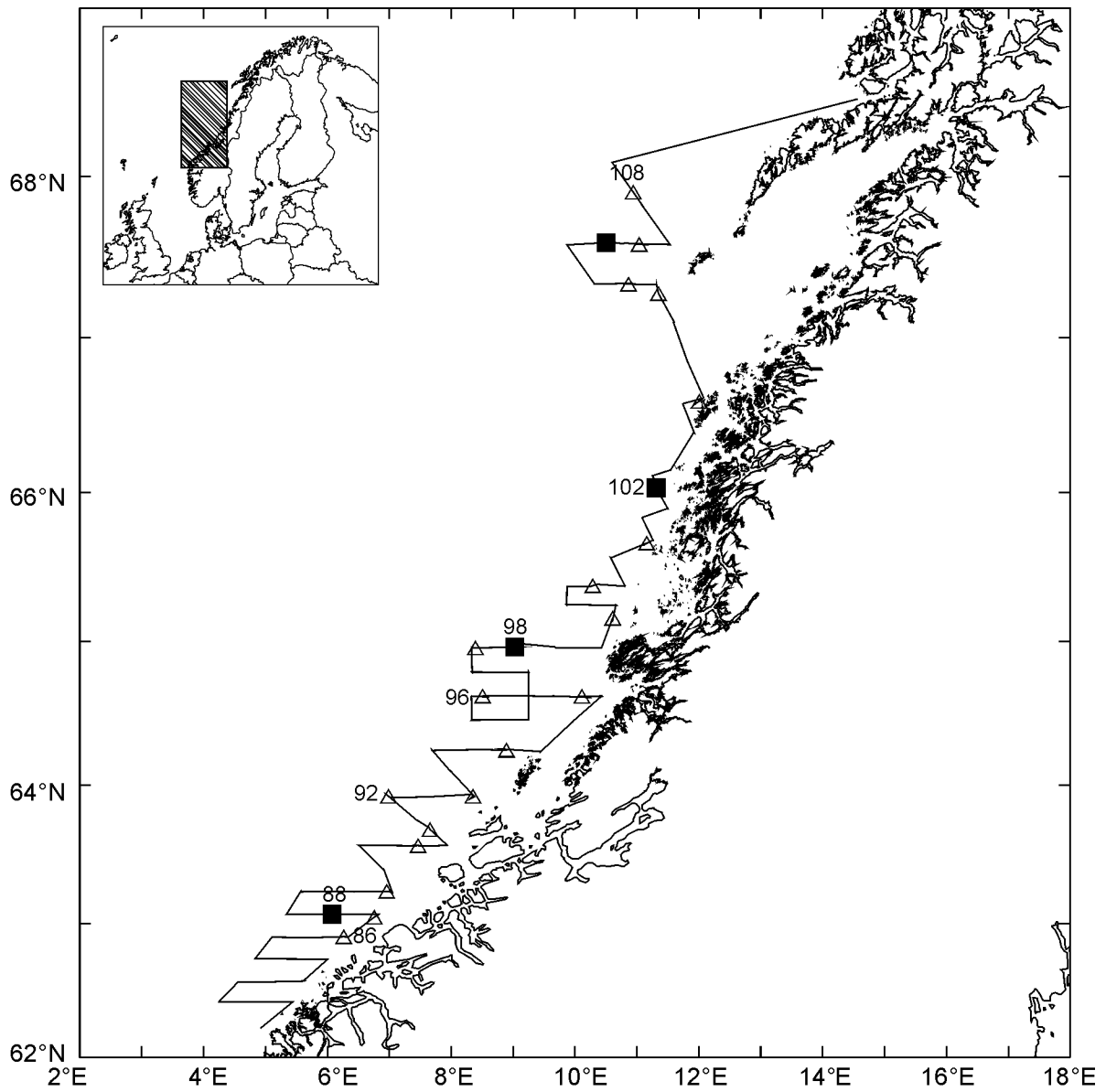
“Håkon Mosby”



16–28 Feb 2006
Cruise no 2006603

z CTD st.no 146–210

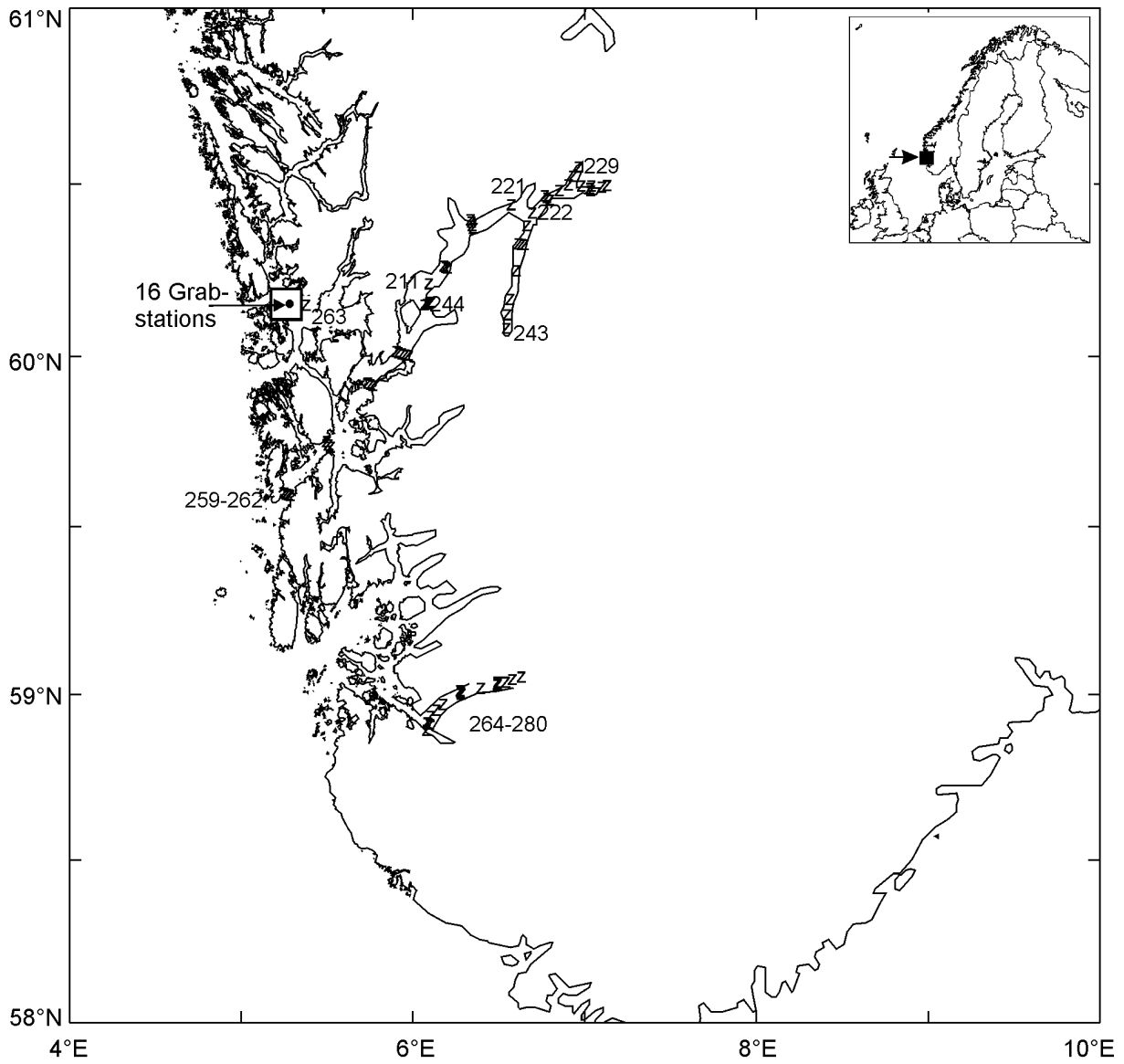
“Håkon Mosby”



16–28 Feb 2006
Cruise no 2006603

Trawl st.no 86–108
 Δ Pelagic trawl
 ■ Bottom trawl

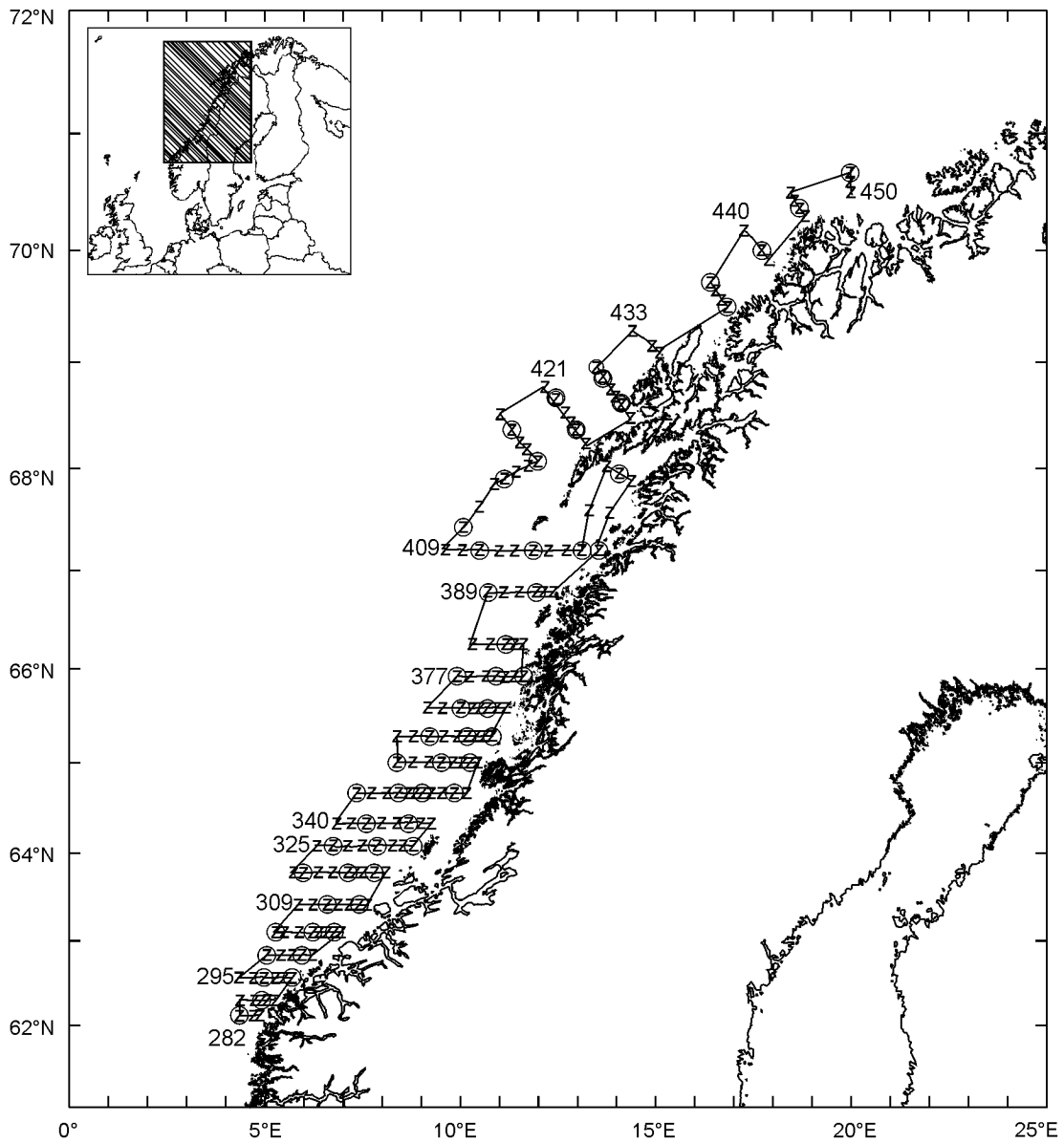
“Håkon Mosby”



3–12 Mar 2006
Cruise no 2006604

z CTD st.no 211–281
● Grab station

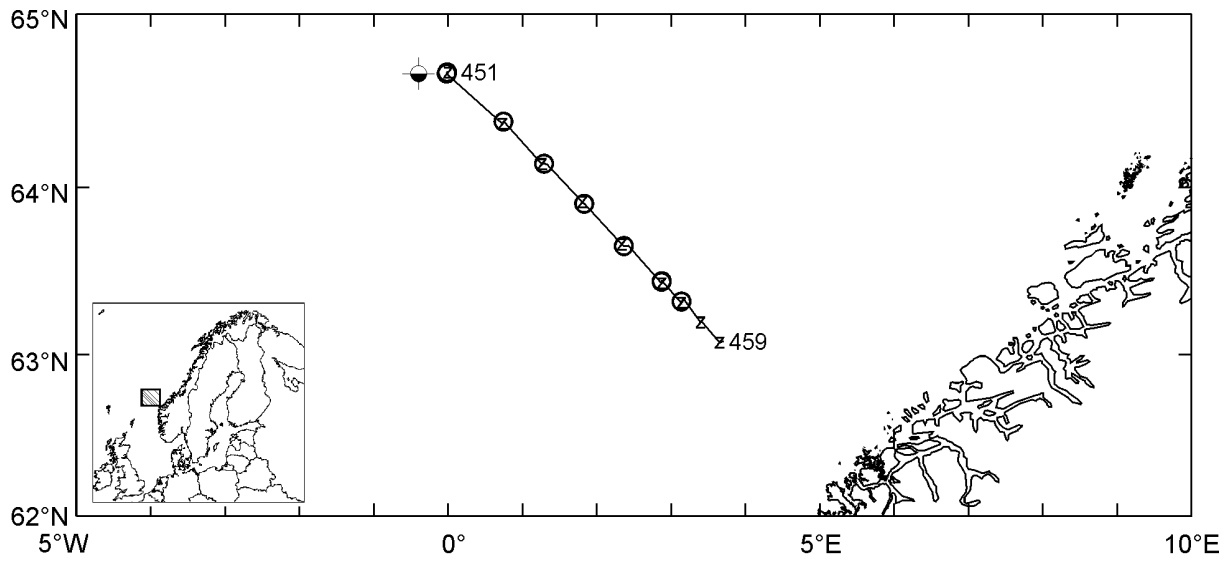
“Håkon Mosby”



25 Mar–10 Apr 2006
Cruise no 2006607

z CTD st.no 282–450
Gulf III and T80 (collecting herring larvae)
o Plankton st. (WP-II-net)

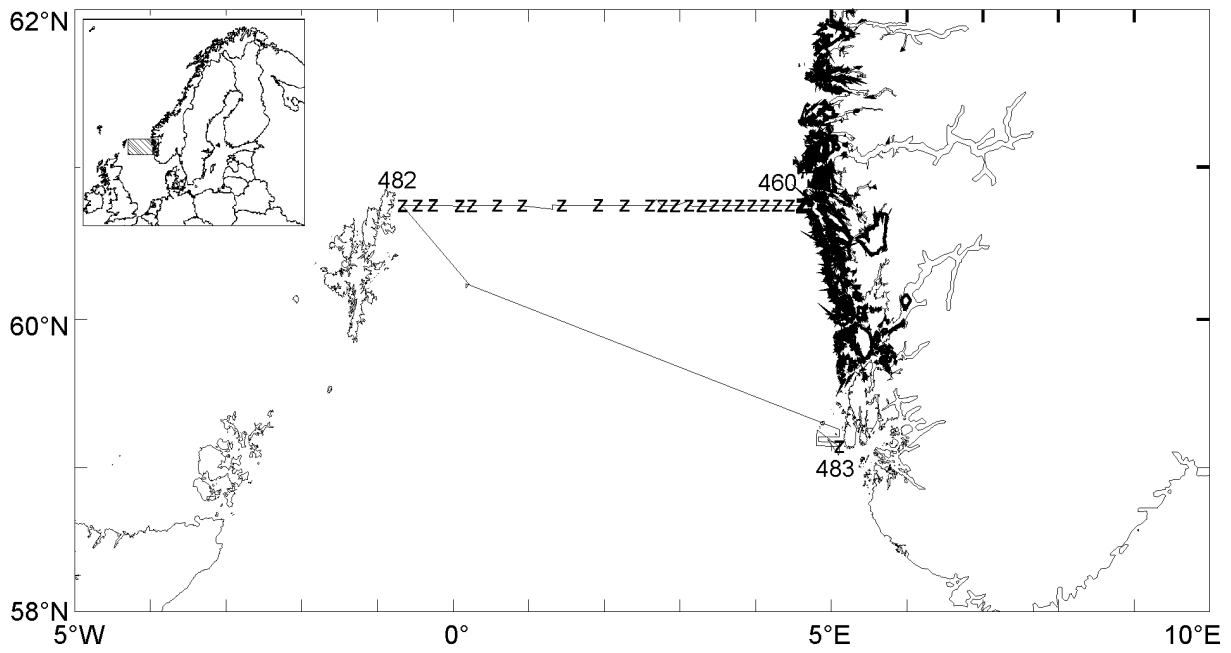
“Håkon Mosby”



10–15 Apr 2006
Cruise no 2006608

z CTD st.no 451–459
o Plankton st. (WP-II-net)
⊕ Argos drifter deployed
Standard section:
Svinøy-NW st.no 451–459

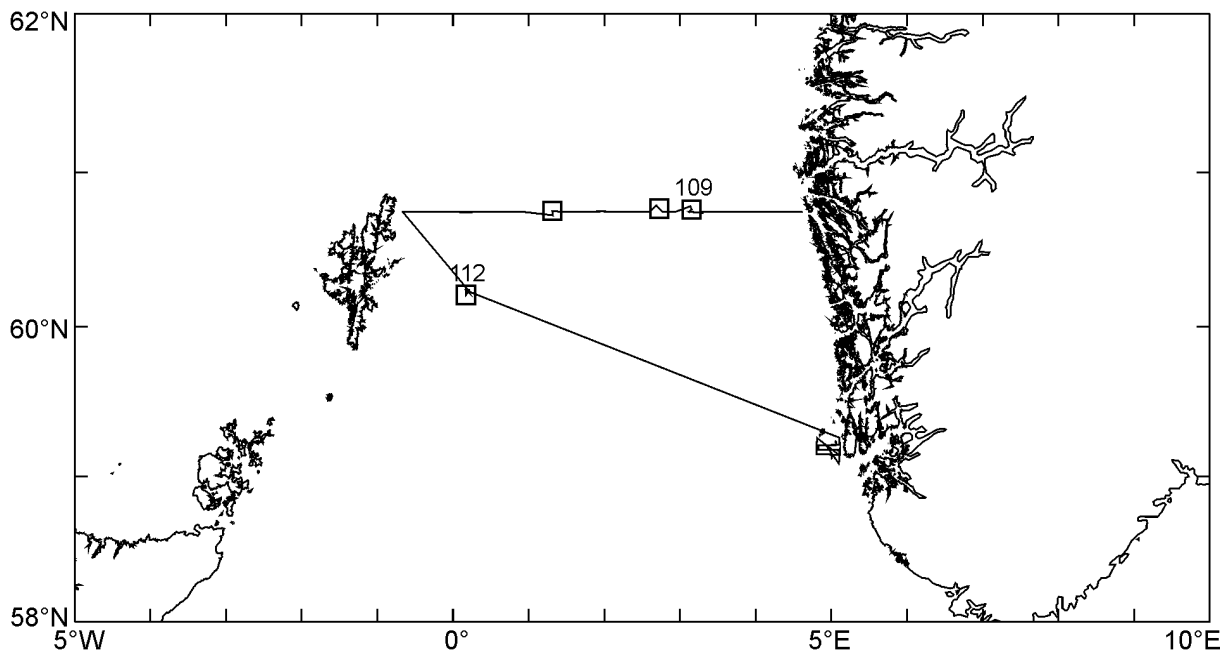
“Håkon Mosby”



18–24 Apr 2006
Cruise no 2006609

z CTD st.no 460–483
Standard section:
Fedje–Shetland st.no 460–482

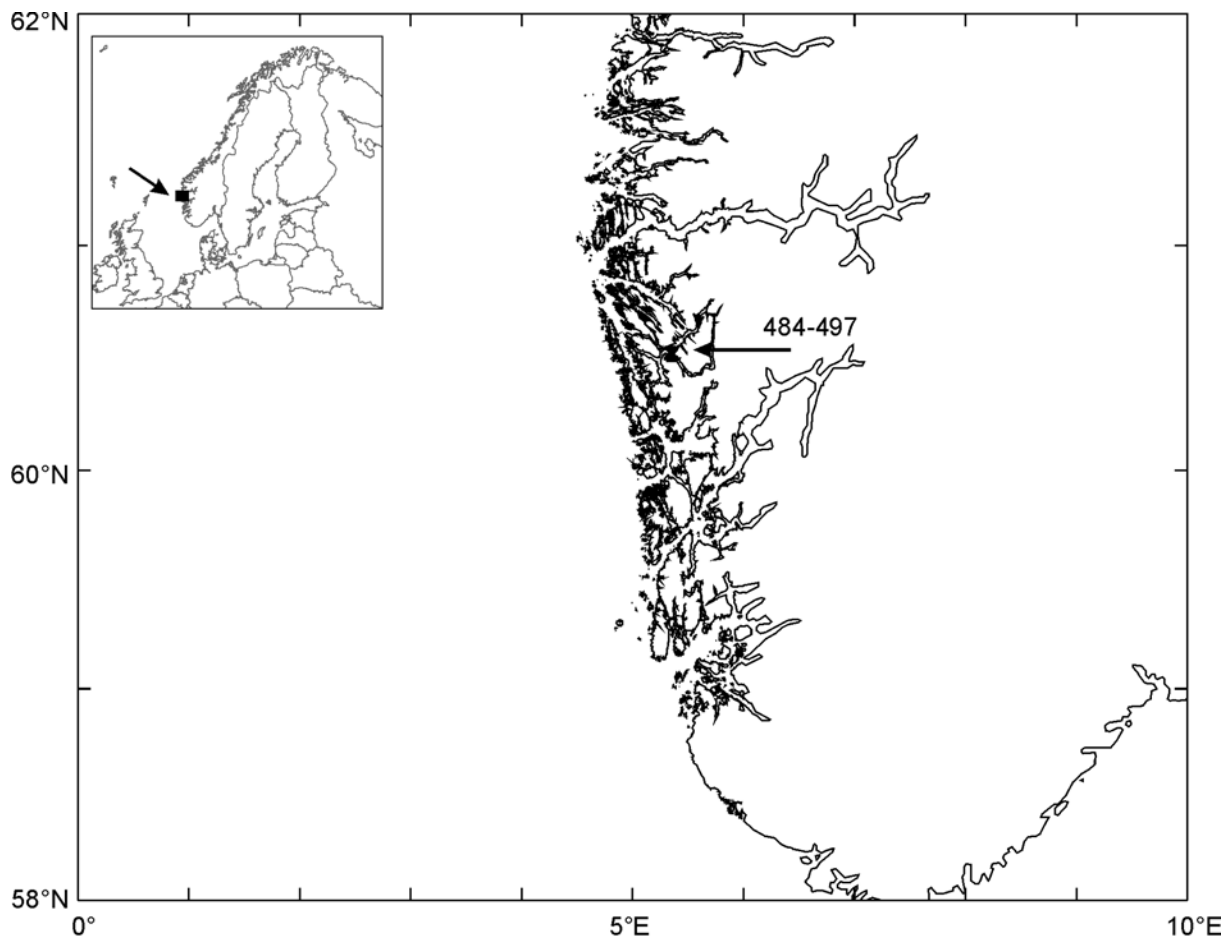
“Håkon Mosby”



18–24 Apr 2006
Cruise no 2006609

□ Bottom trawl st.no 109–112

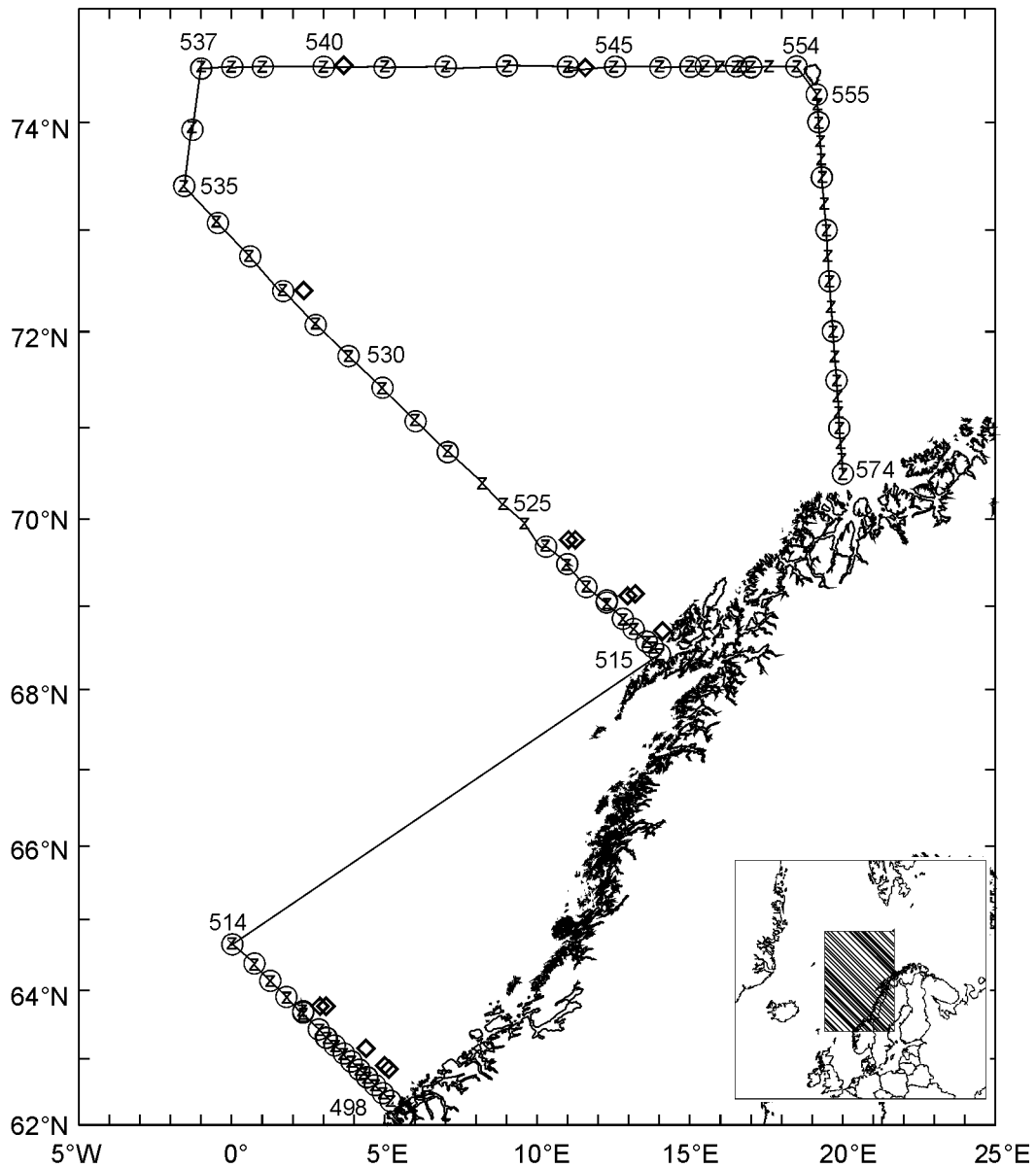
“Håkon Mosby”



25–26 Apr 2006
Cruise no 2006610

z CTD st.no 484–497

“Håkon Mosby”



4–22 May 2006
Cruise no 2006611

z CTD st.no 498–574

○ Plankton st. (WP-II-net)

◇ Mocness

Standard sections:

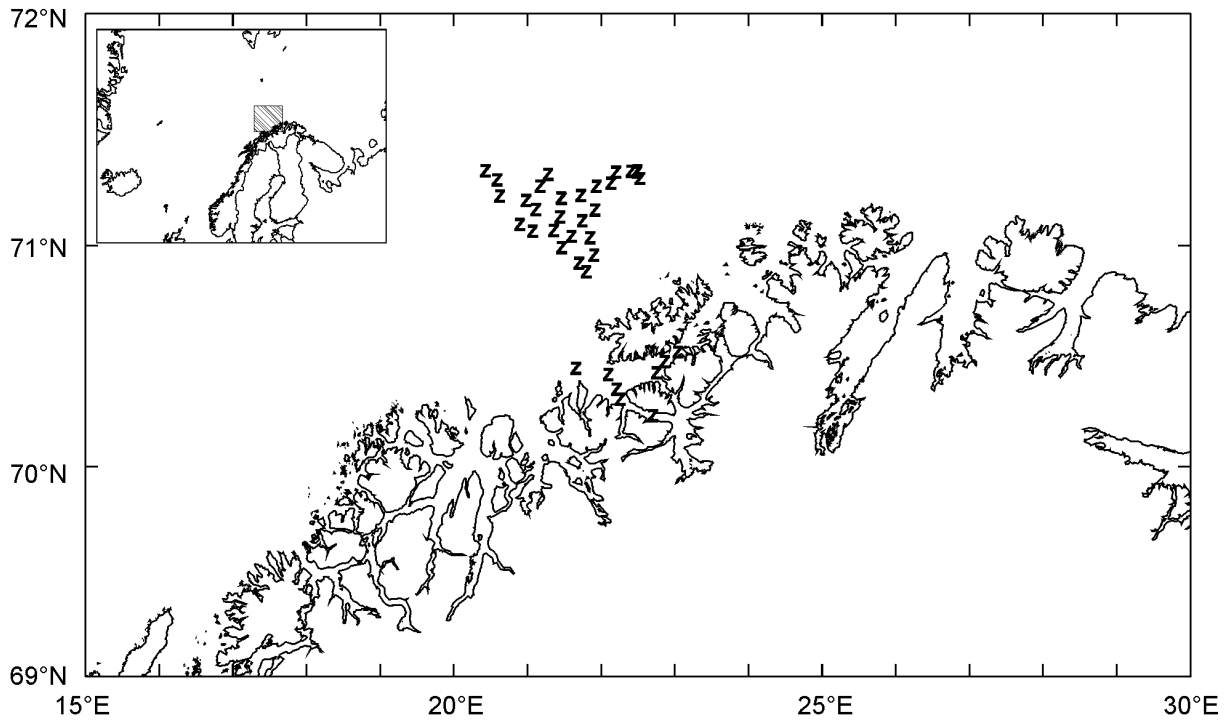
Svinøy-NW st.no 498–514

Gimsøy-NW st.no 515–535

Bjørnøya-W st.no 537–554

Fugløya–Bjørnøya st.no 555–574

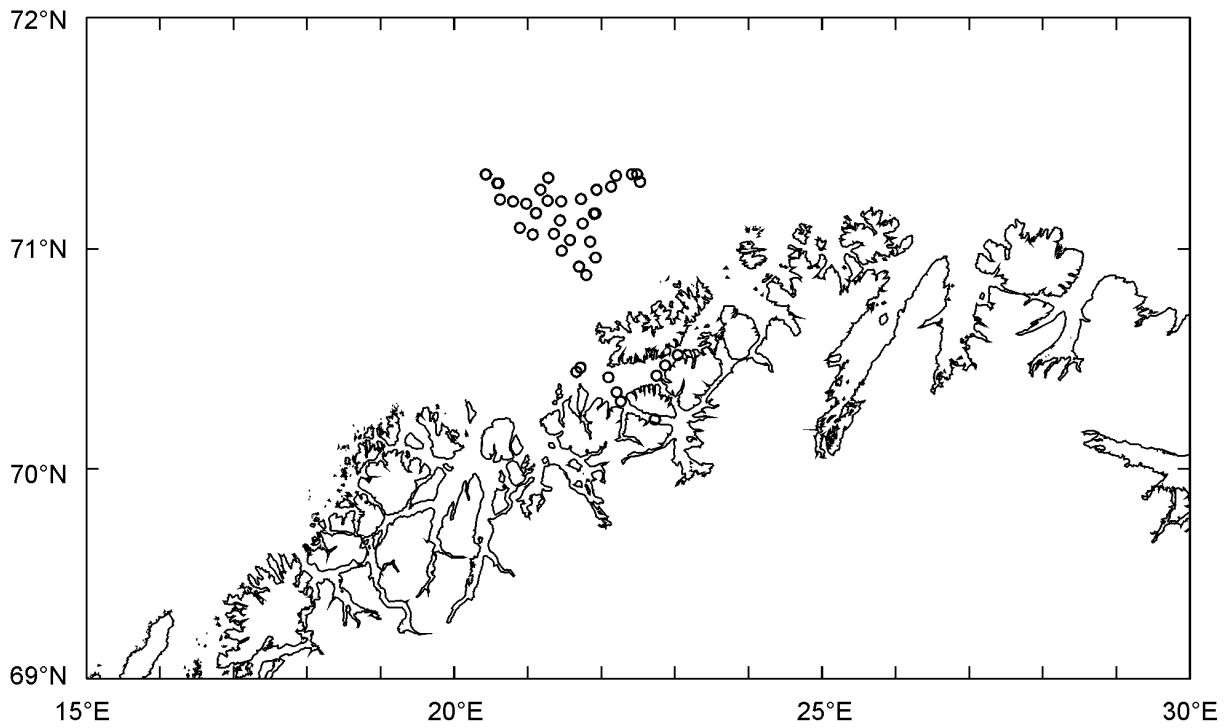
“Håkon Mosby”



24 May–21 June 2006
Cruise no 2006612

z CTD st.no 575–612

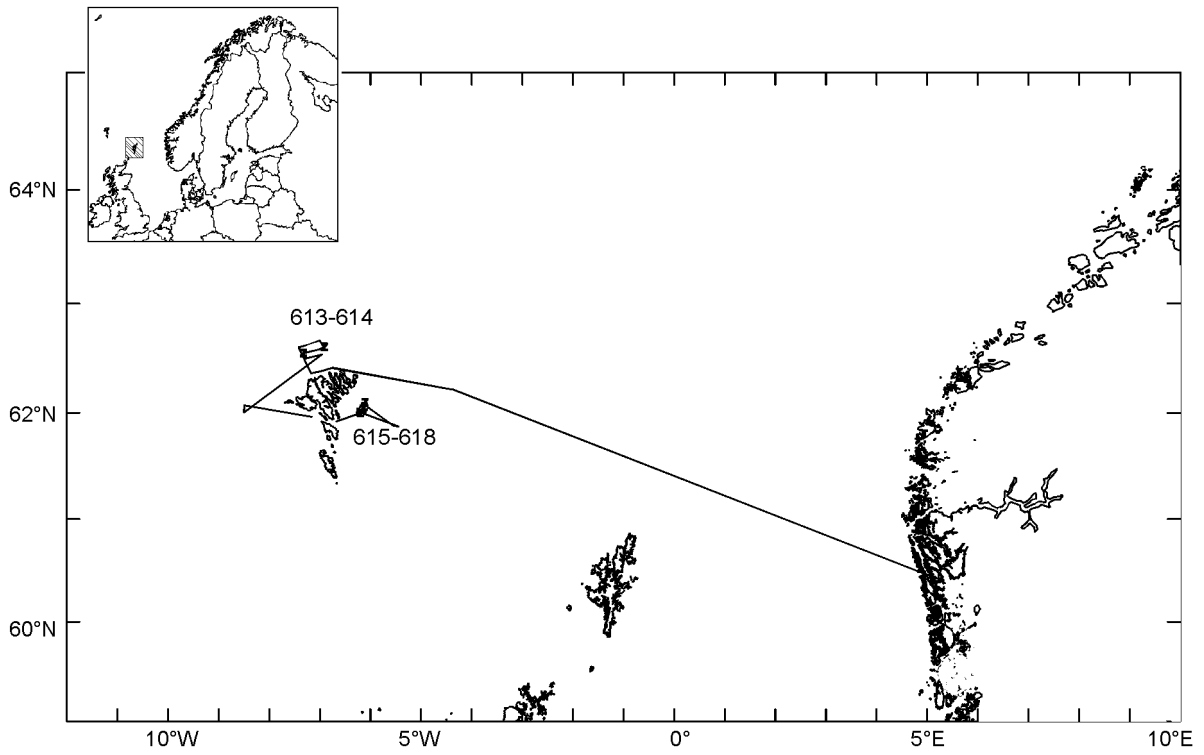
“Håkon Mosby”



24 May–21 June 2006
Cruise no 2006612

o Grab stations

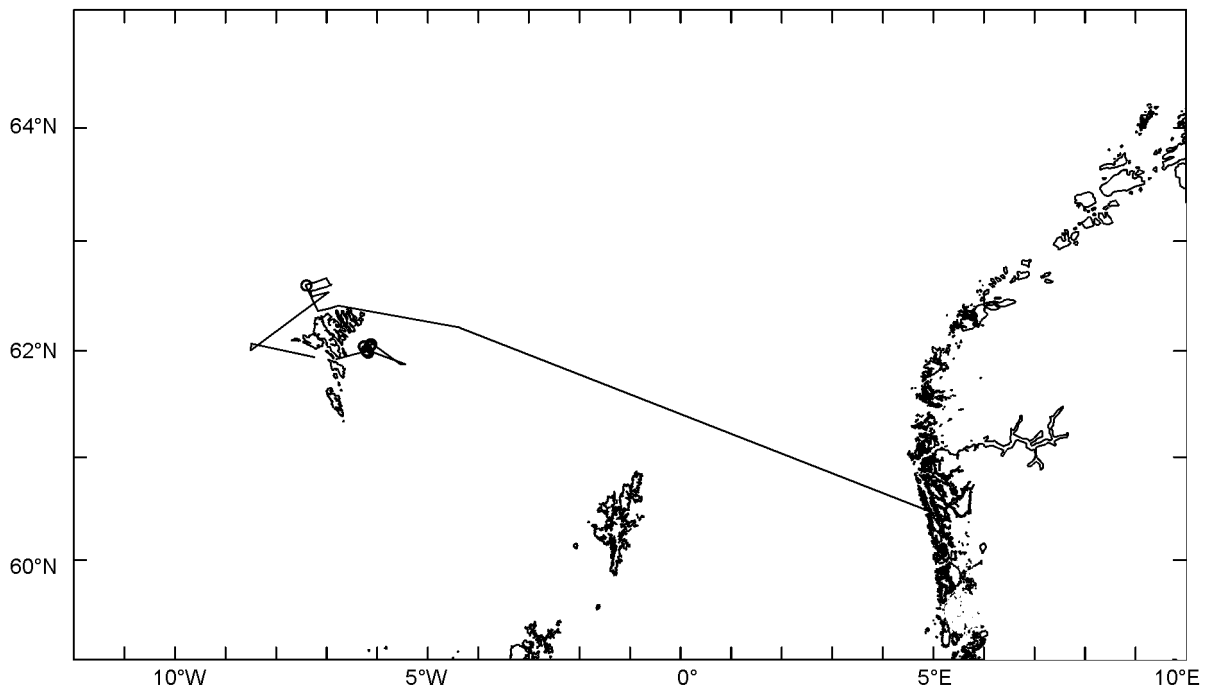
“Håkon Mosby”



26 June–1 July 2006
Cruise no 2006613

z CTD st.no 613–618

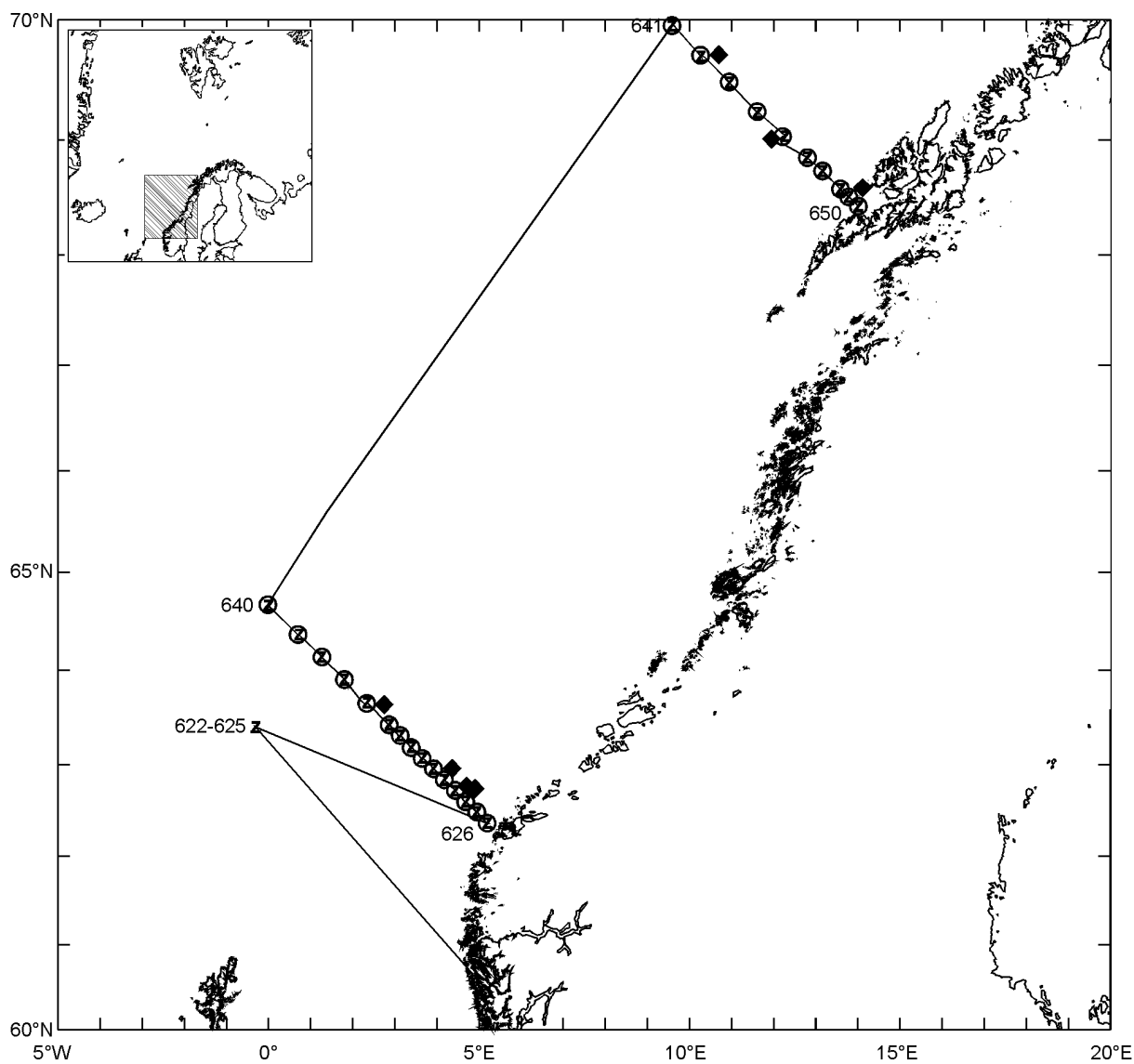
“Håkon Mosby”



26 June–1 July 2006
Cruise no 2006613

o Grab sampling of bivalves and dredging
of seafloor for sampling of bivalves

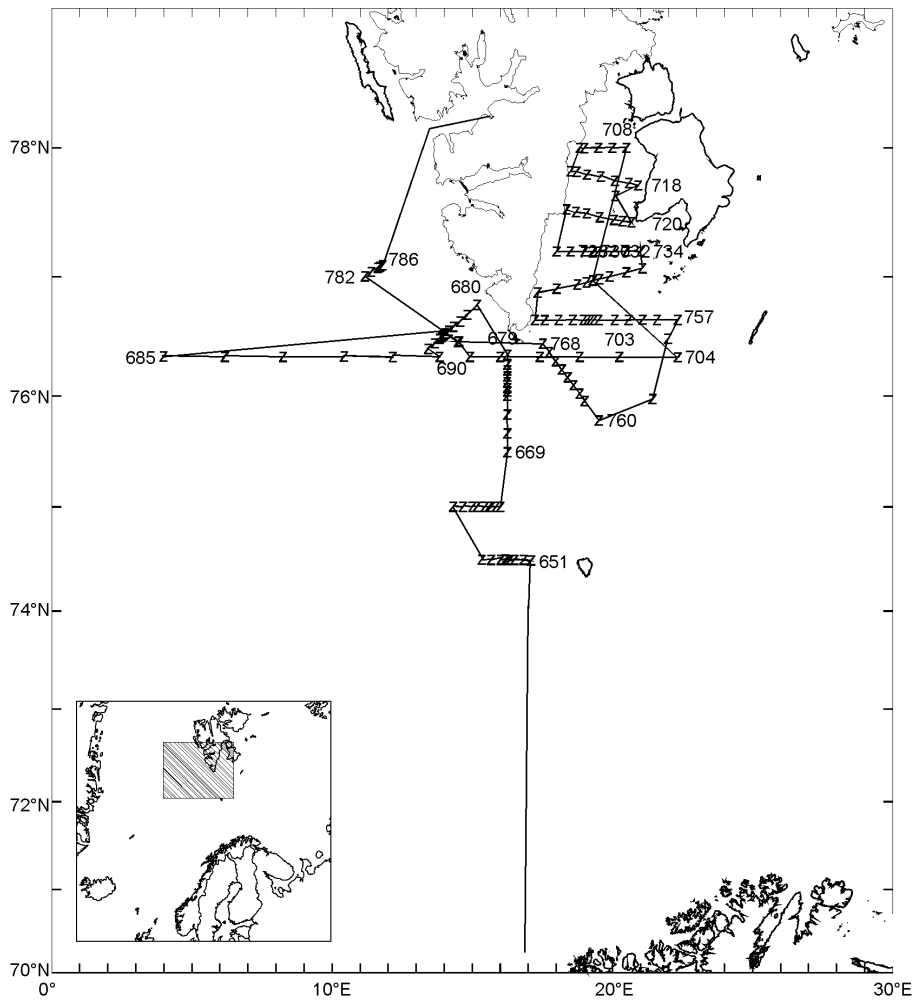
“Håkon Mosby”



20–28 July 2006
Cruise no 2006614

z CTD st.no 622–650
o Plankton st. (WP-II-net)
◆ MOCNESS st.
Standard sections:
Svinøy-NW st.no 626–640
Gimsøy-NW st.no 641–650

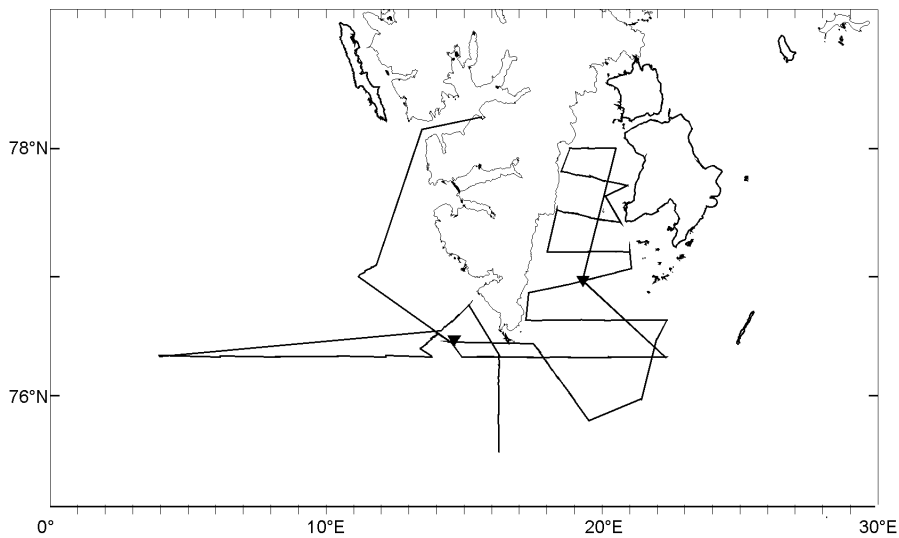
“Håkon Mosby”



1–18 Aug 2006
Cruise no 2006615

z CTD st.no 651–786
Standard sections:
Sørkapp-W st.no 685-690, 699-704
Bjørnøya-W (partly) st.no 651-659

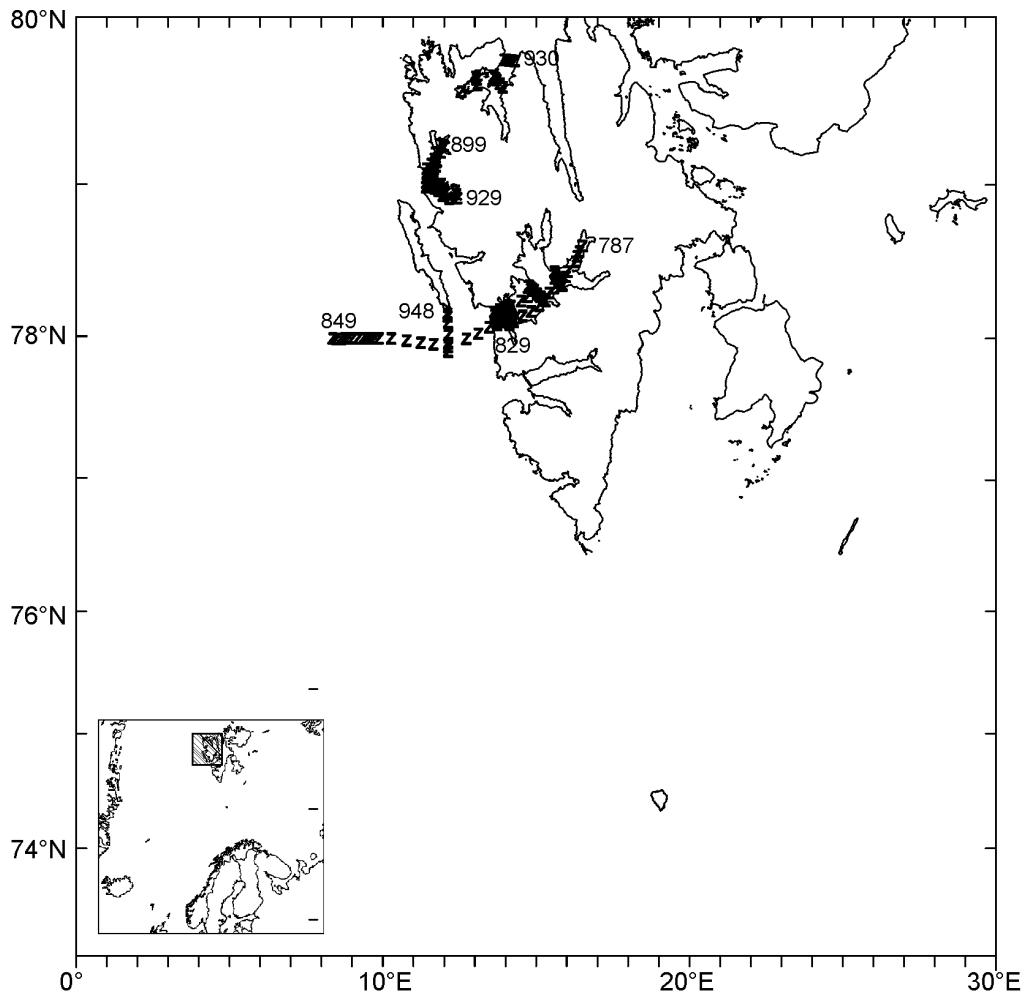
“Håkon Mosby”



1–18 Aug 2006
Cruise no 2006615

▼ Deployed and recovered bottom-mounted upward looking RDI ADCP

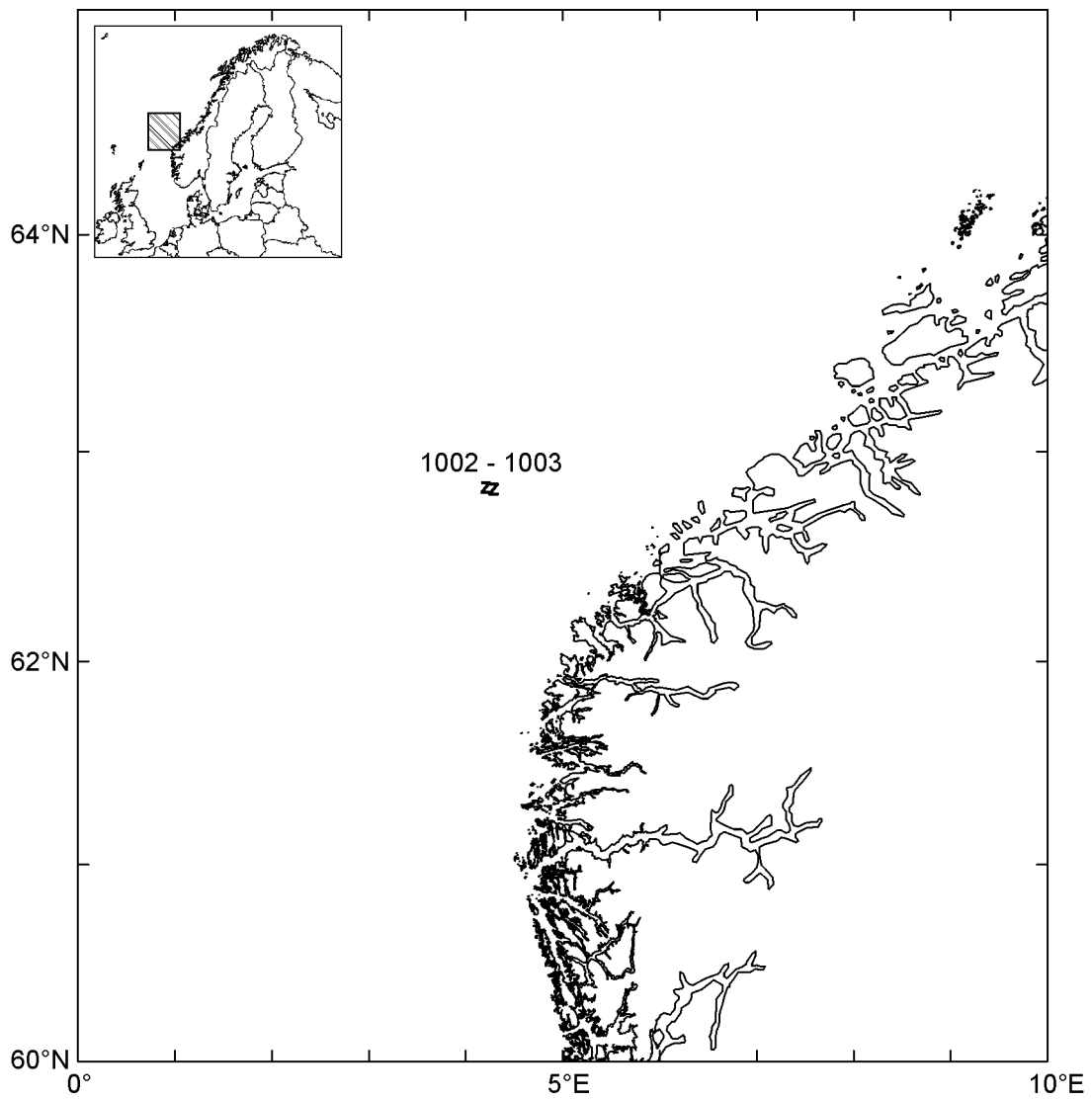
“Håkon Mosby”



14–25 Sep 2006
Cruise no 2006617

z CTD st.no 787–1001

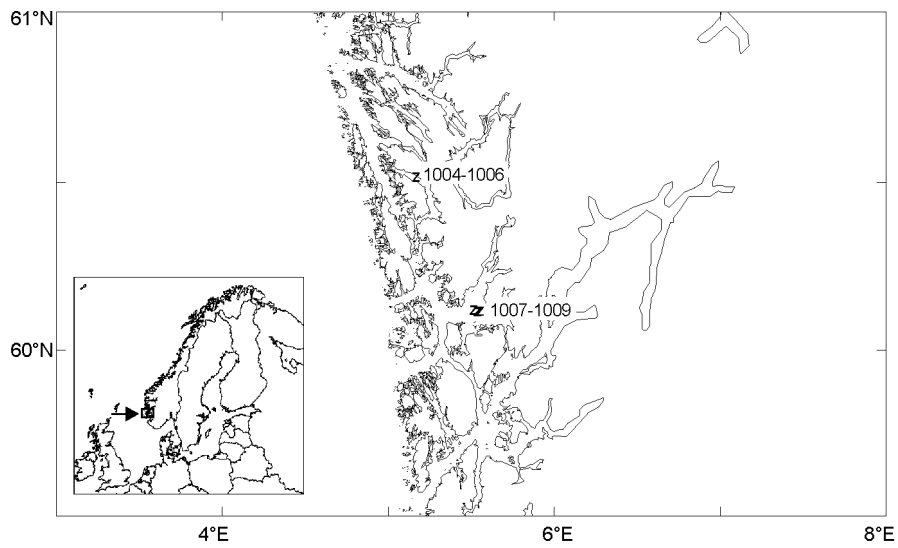
“Håkon Mosby”



1-6 Oct 2006
Cruise no 2006618

z CTD st.no 1002-1003

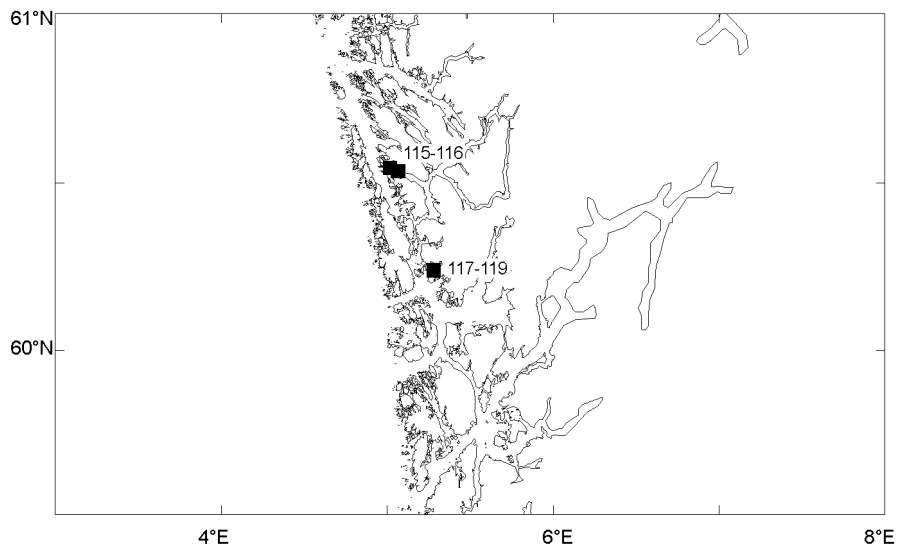
"Håkon Mosby"



9–13 Oct 2006
Cruise no 2006620

z CTD st.no 1004–1009

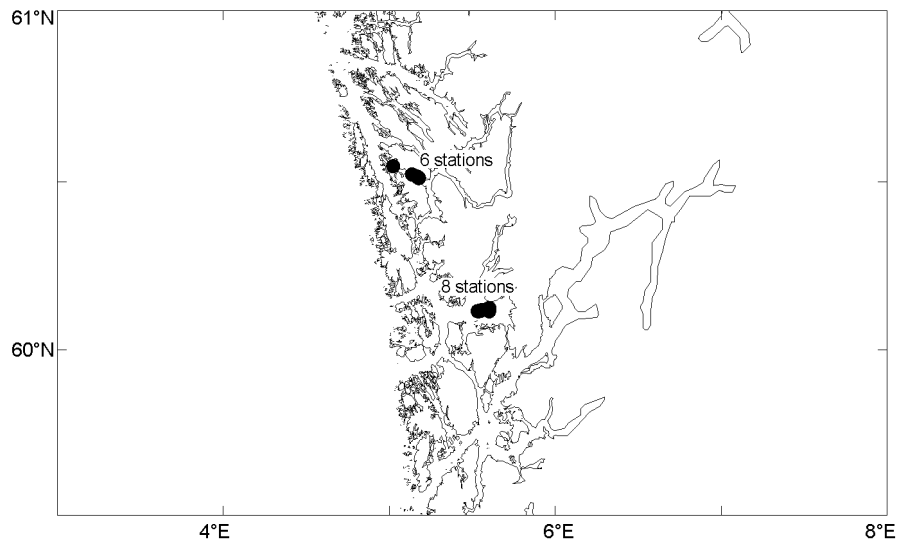
“Håkon Mosby”



9–13 Oct 2006
Cruise no 2006620

■ Bottom trawl st.no 115–119

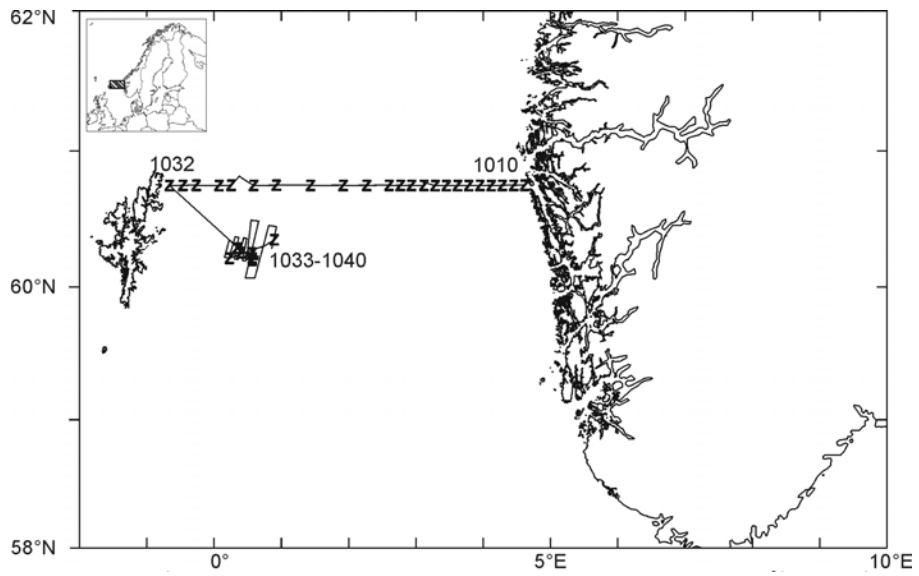
“Håkon Mosby”



9–13 Oct 2006
Cruise no 2006620

● Multi plankton sampler

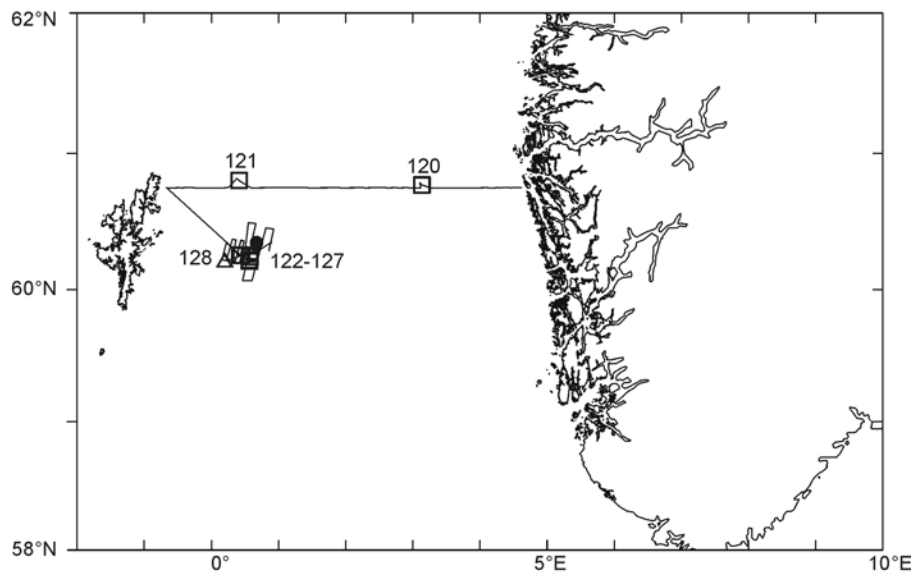
“Håkon Mosby”



14–20 Oct 2006
Cruise no 2006621

z CTD st.no 1010–1040
Standard section:
Fedje–Shetland st.no 1010-1032

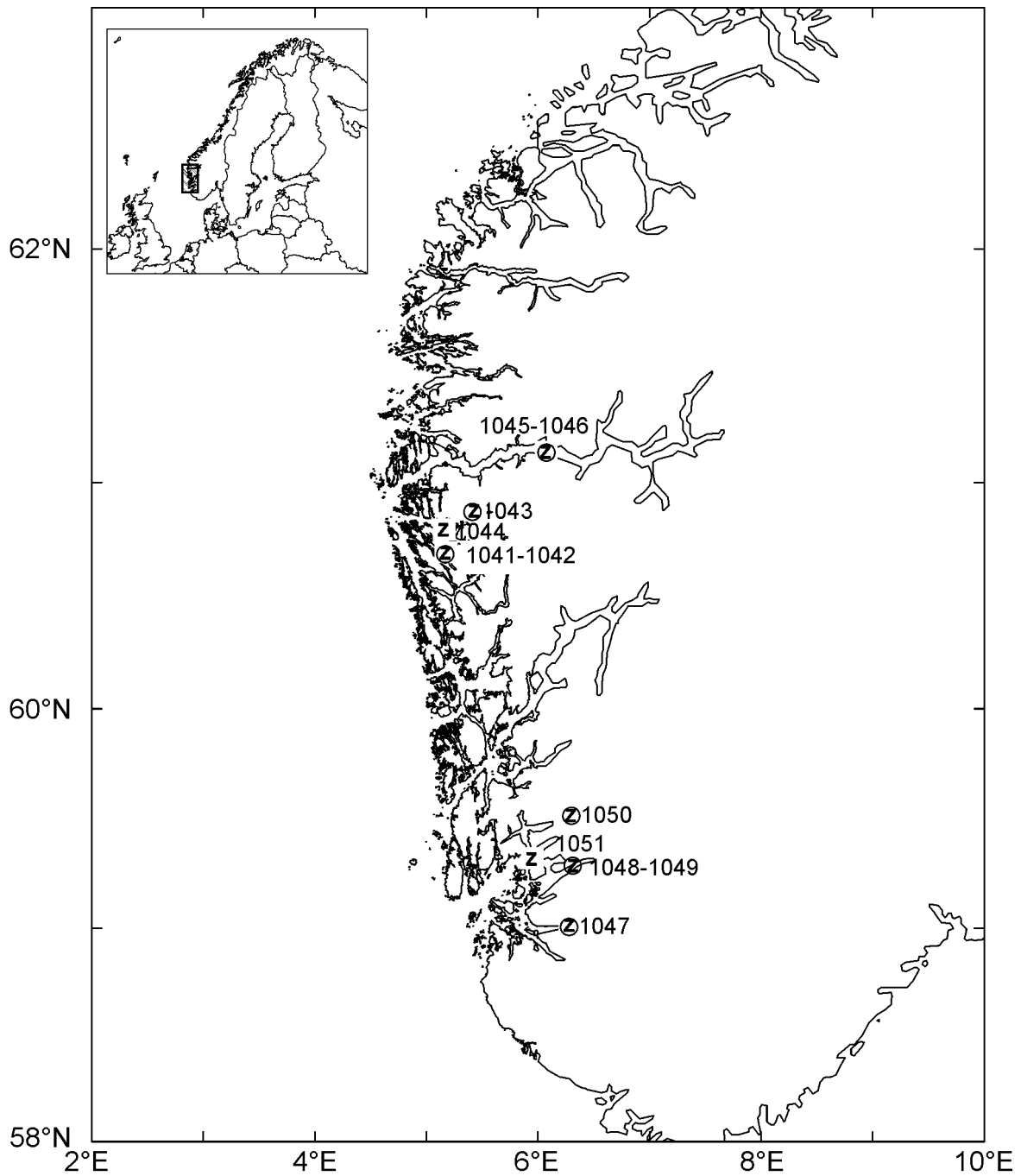
“Håkon Mosby”



14–20 Oct 2006
Cruise no 2006621

Trawl st.no 120–128
 Δ Pelagic trawl
 □ Bottom trawl
 ● Mik statons

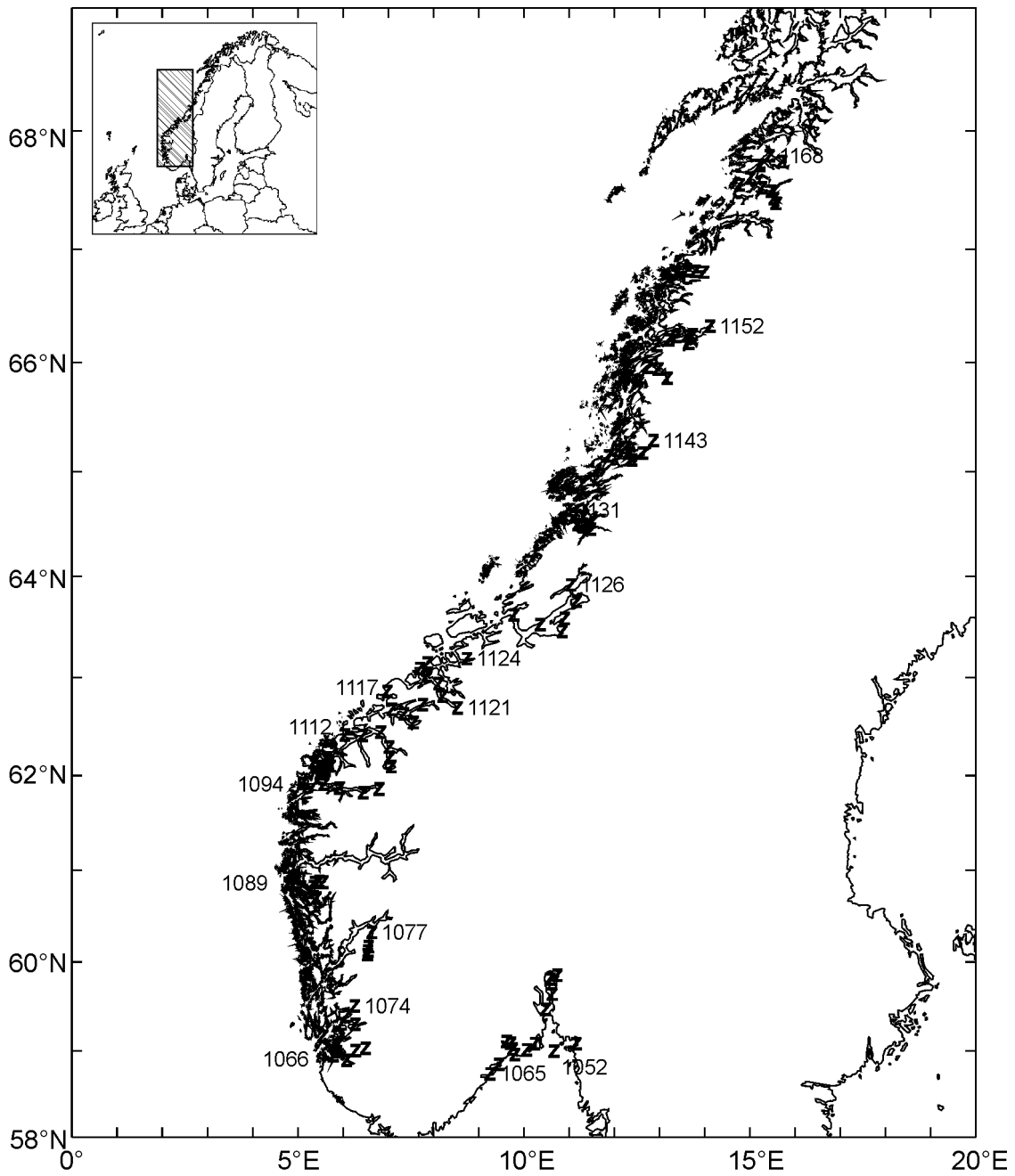
“Håkon Mosby”



29 Oct–4 Nov 2006
Cruise no 2006622

z CTD st.no 1041–1051
o Multinet

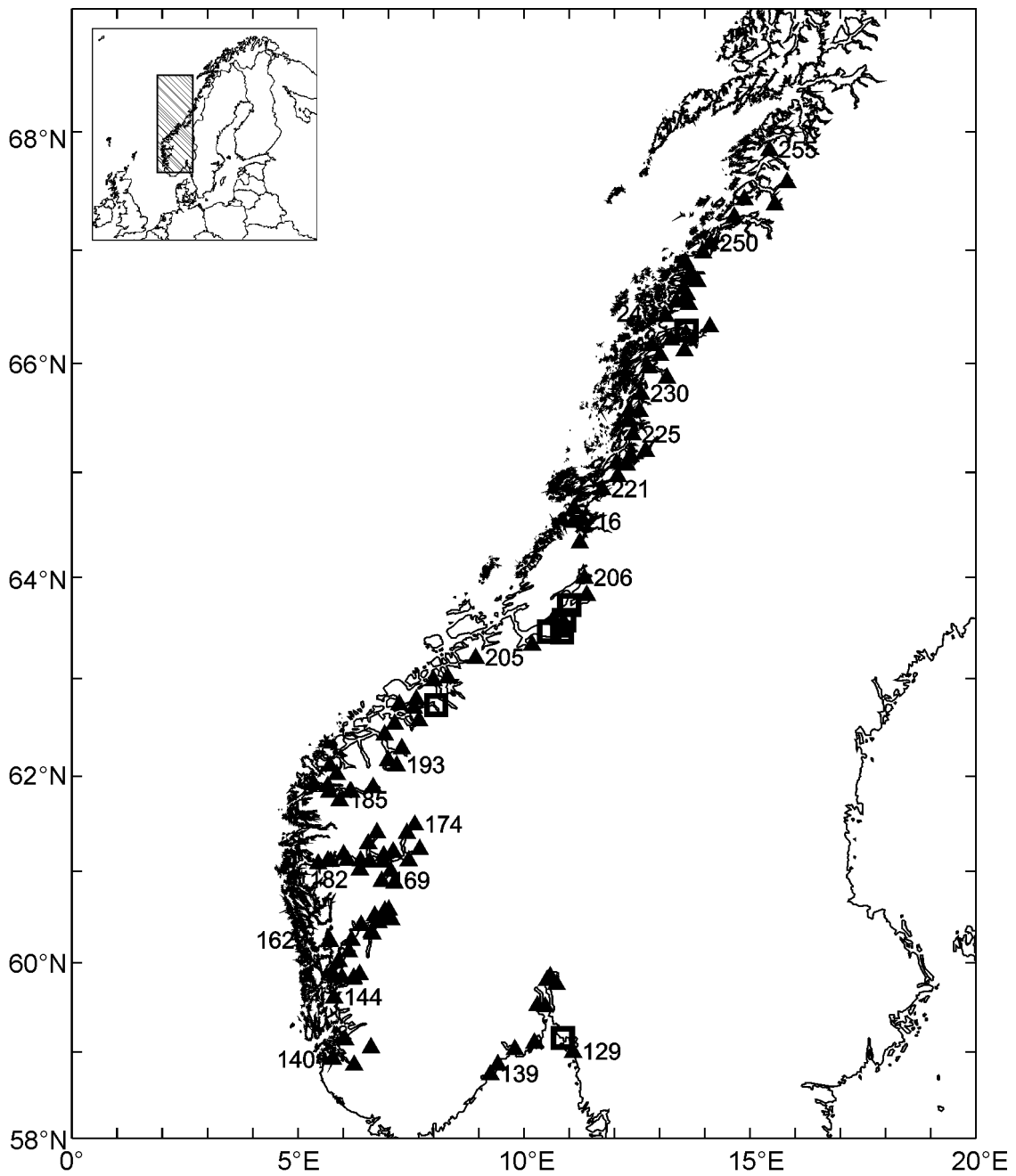
“Håkon Mosby”



7 Nov–9 Dec 2006
Cruise no 2006623

z CTD st.no 1052–1168

“Håkon Mosby”

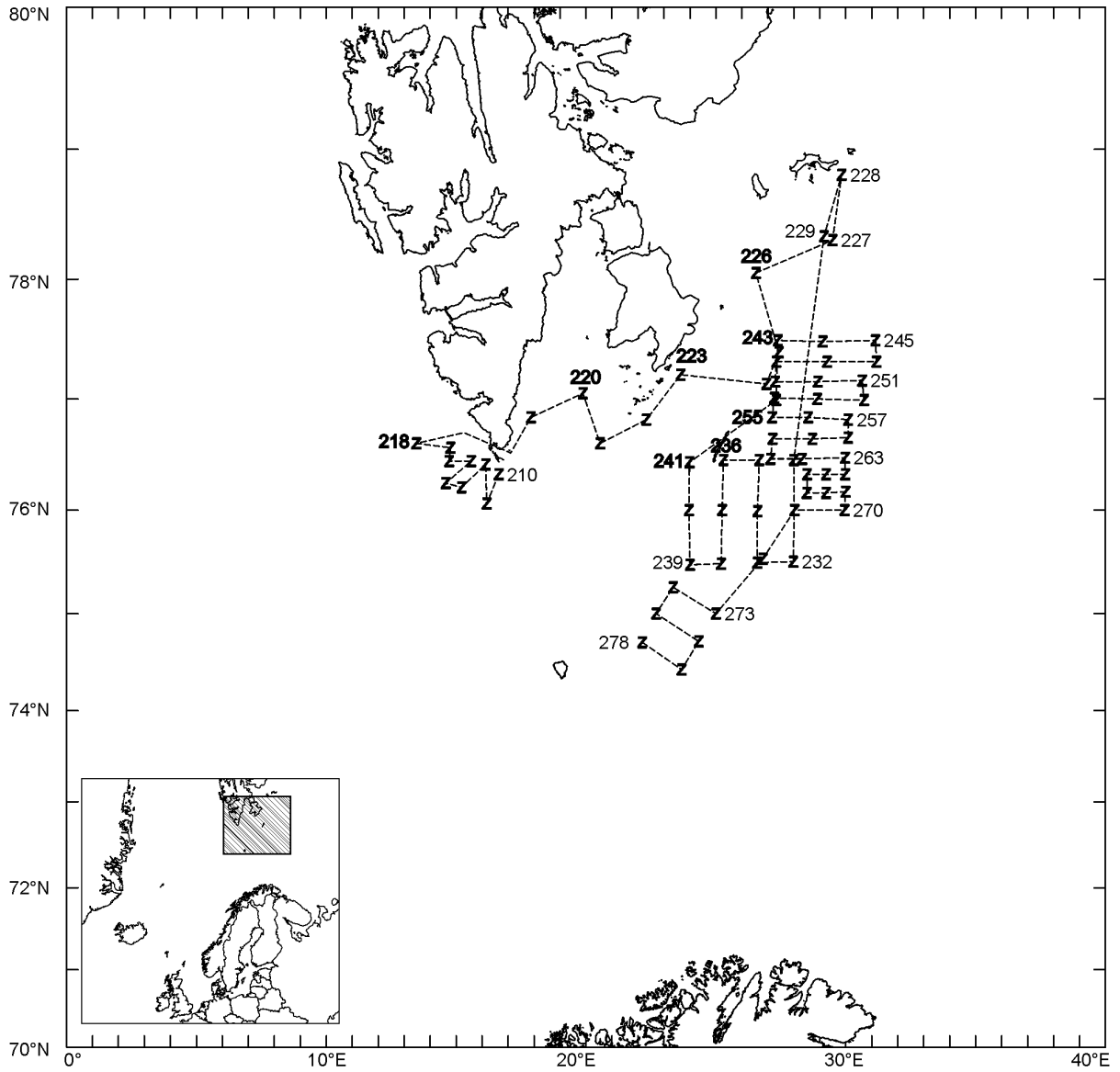


7 Nov–9 Dec 2006
Cruise no 2006623

Trawl st.no 129–255
▲ Pelagic trawl
□ Bottom trawl

“Håkon Mosby”

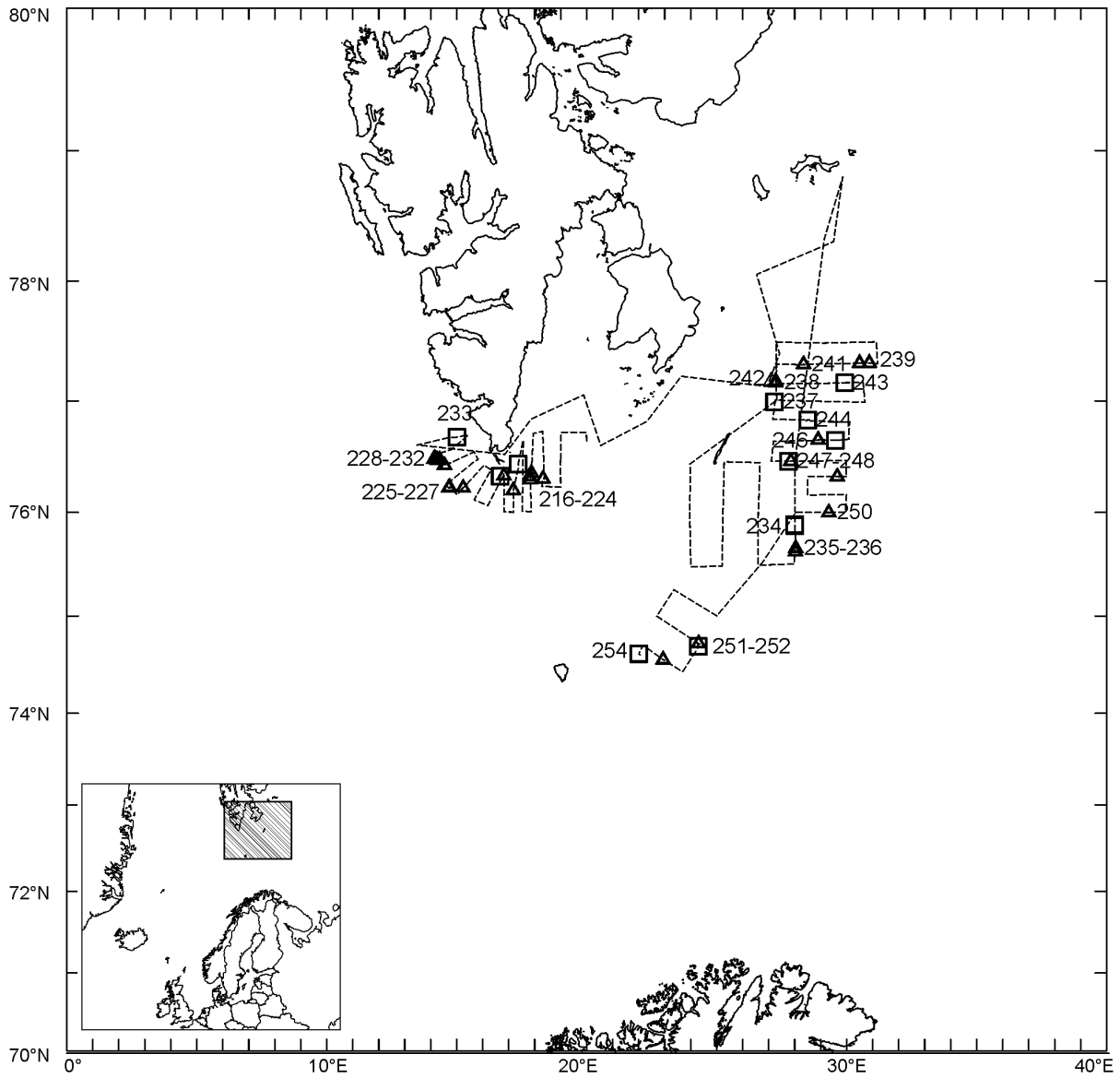
4.4 Jan Mayen



20 May–8 June 2006
Cruise no 2006701

z CTD st.no 210–278

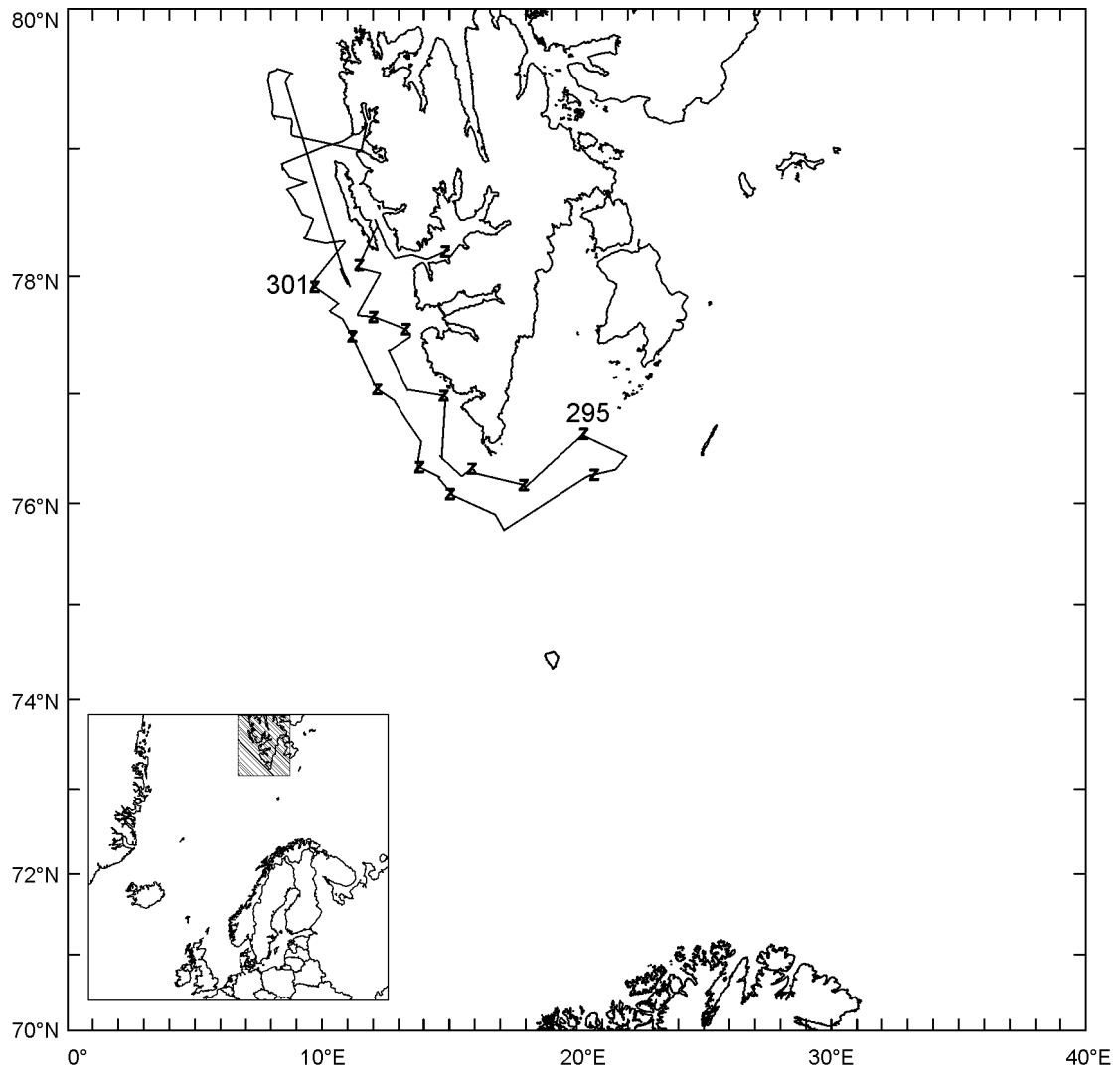
“Jan Mayen”



20 May–8 June 2006
 Cruise no 2006701

Trawl st.no 216–254
 □ Bottom trawl
 Δ Pelagic trawl

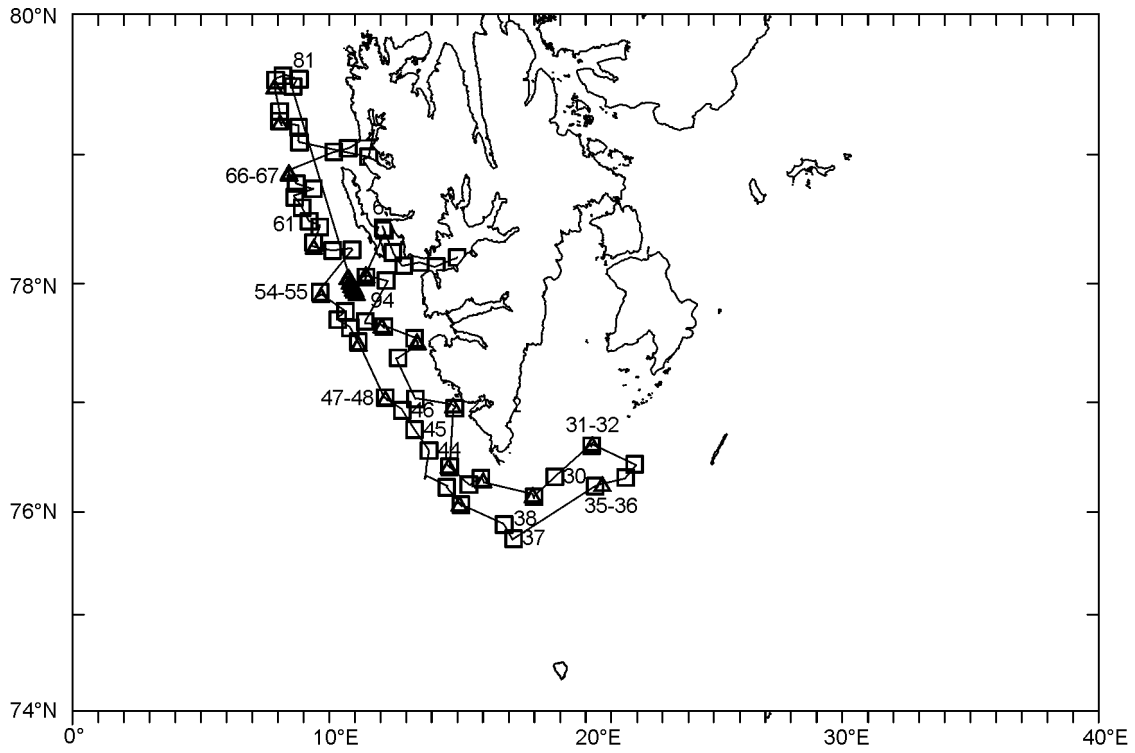
“Jan Mayen”



7–16 Aug 2006
Cruise no 2006702

z CTD st.no 288–301

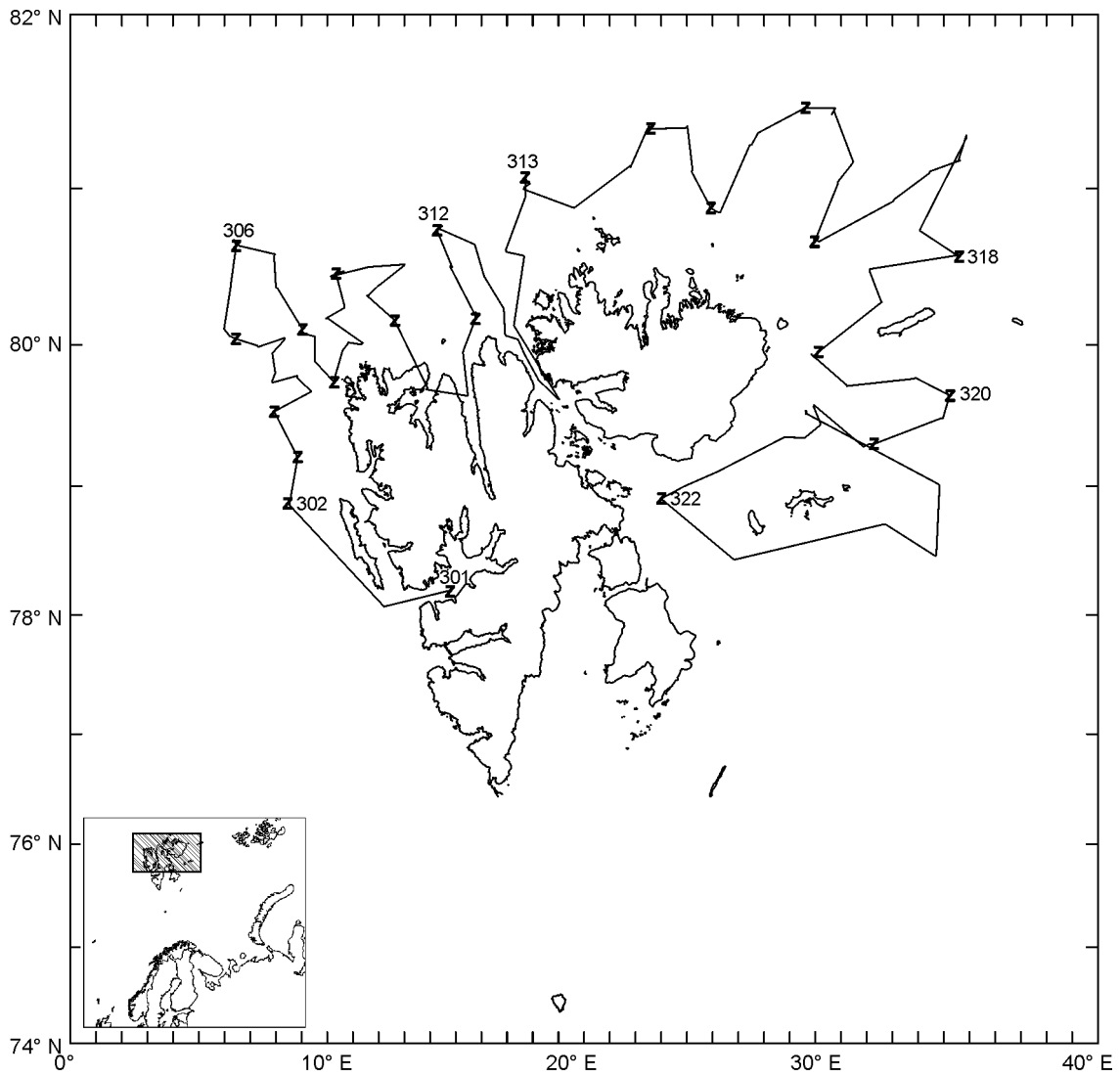
“Jan Mayen”



7–16 Aug 2006
Cruise no 2006702

Trawl st.no 1–94
 □ Bottom trawl
 Δ Pelagic trawl

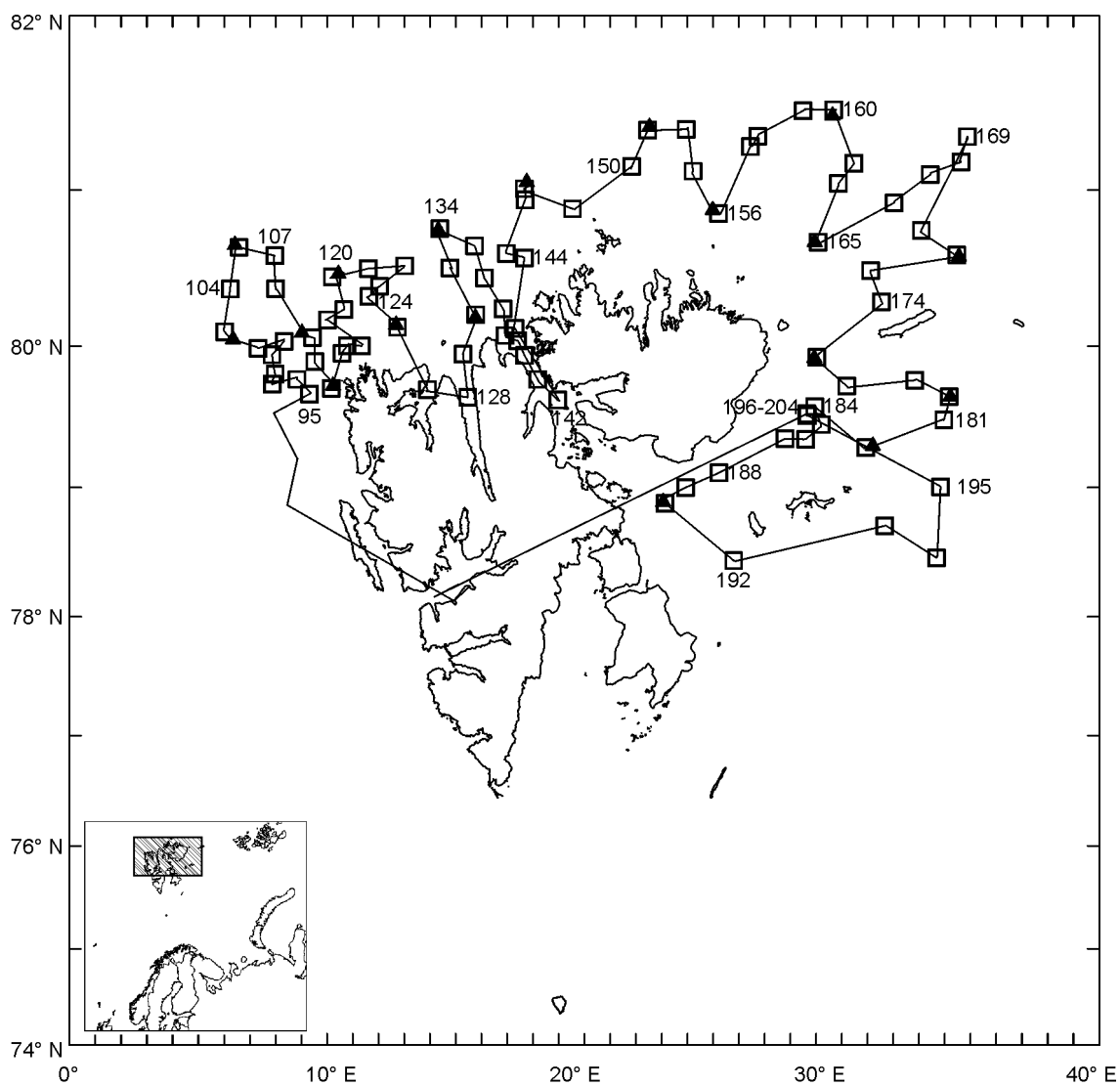
“Jan Mayen”



11–29 Sep 2006
Cruise no 2006704

z CTD st.no 301–322

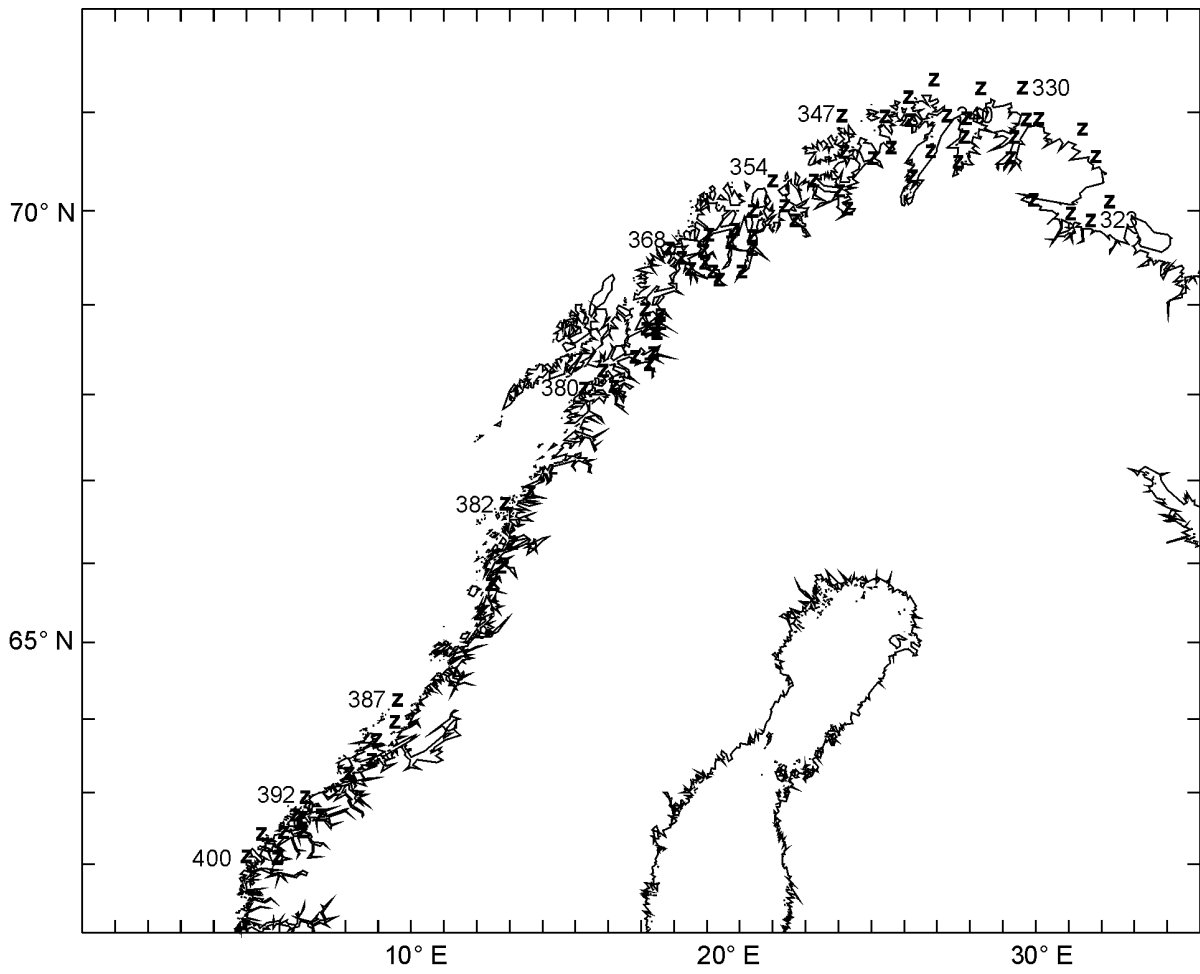
“Jan Mayen”



11–29 Sep 2006
Cruise no 2006704

Trawl st.no 95–204
 □ Bottom trawl
 ▲ Pelagic trawl

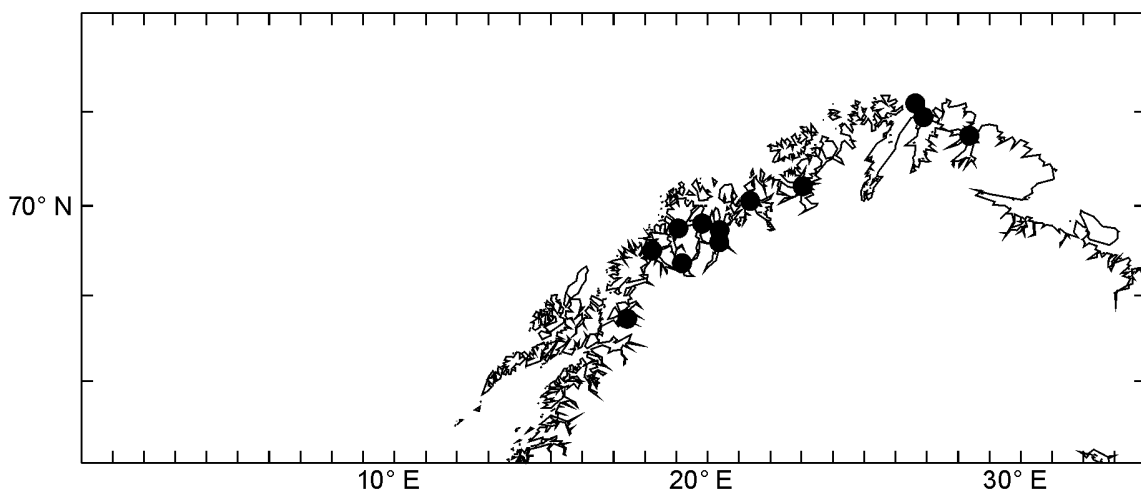
“Jan Mayen”



23 Oct–21 Nov 2006
Cruise no 2006705

z CTD st.no 323–400

“Jan Mayen”



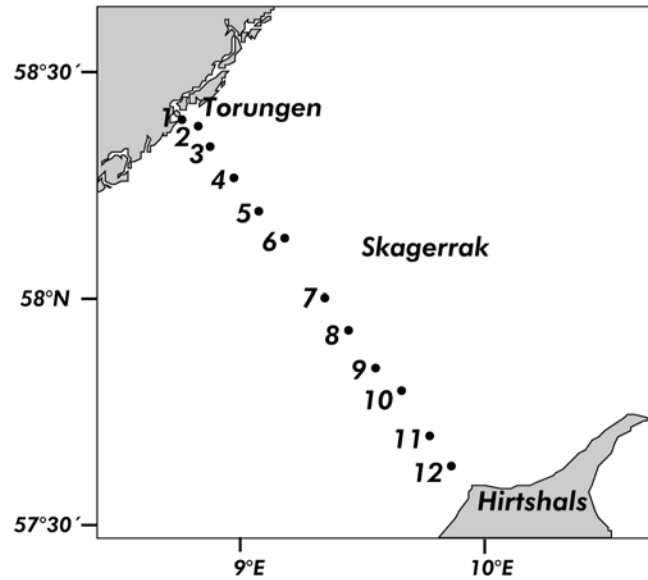
23 Oct–21 Nov 2006
Cruise no 2006705

● Grab stations

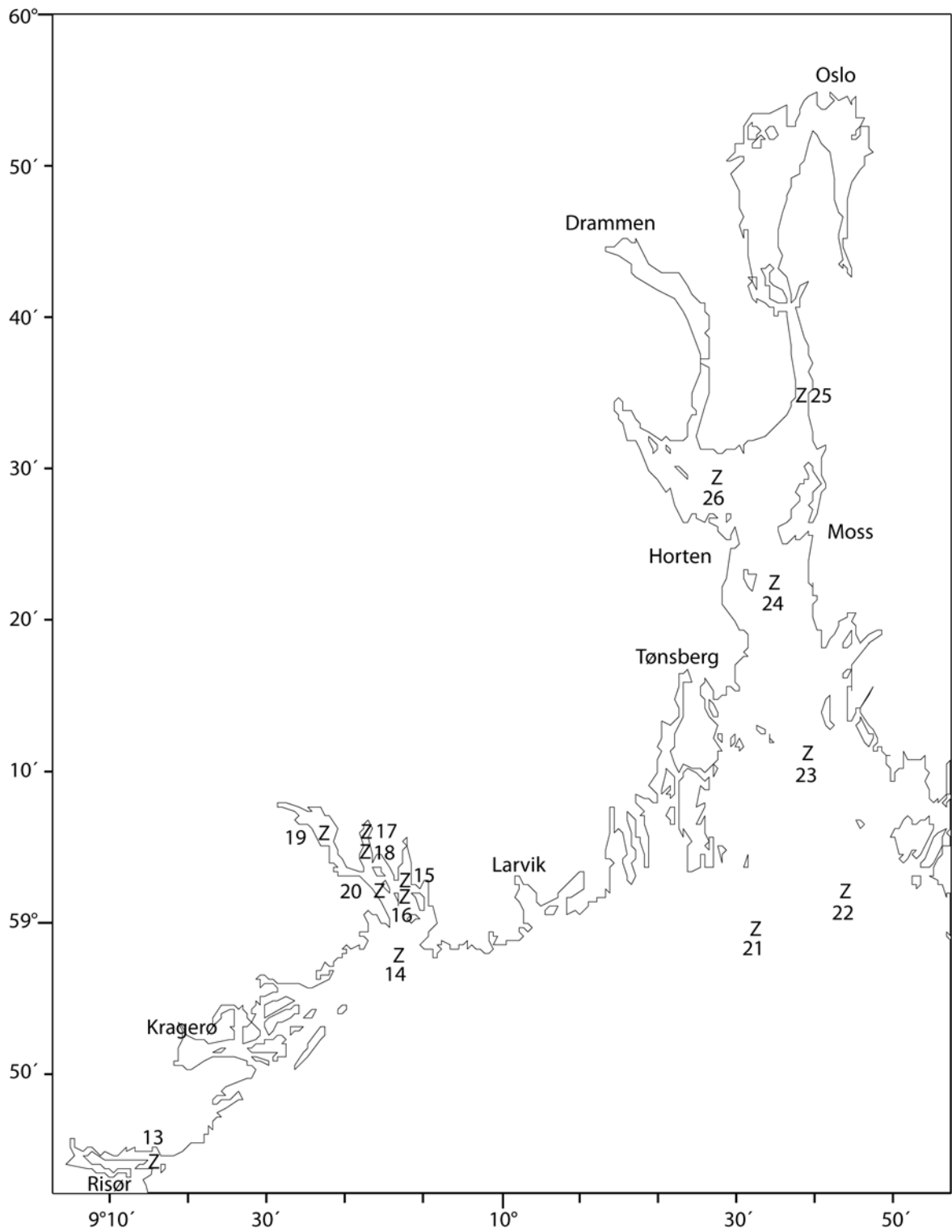
“Jan Mayen”

4.5 G. M. Dannevig

Standard section Torungen–Hirtshals 2005



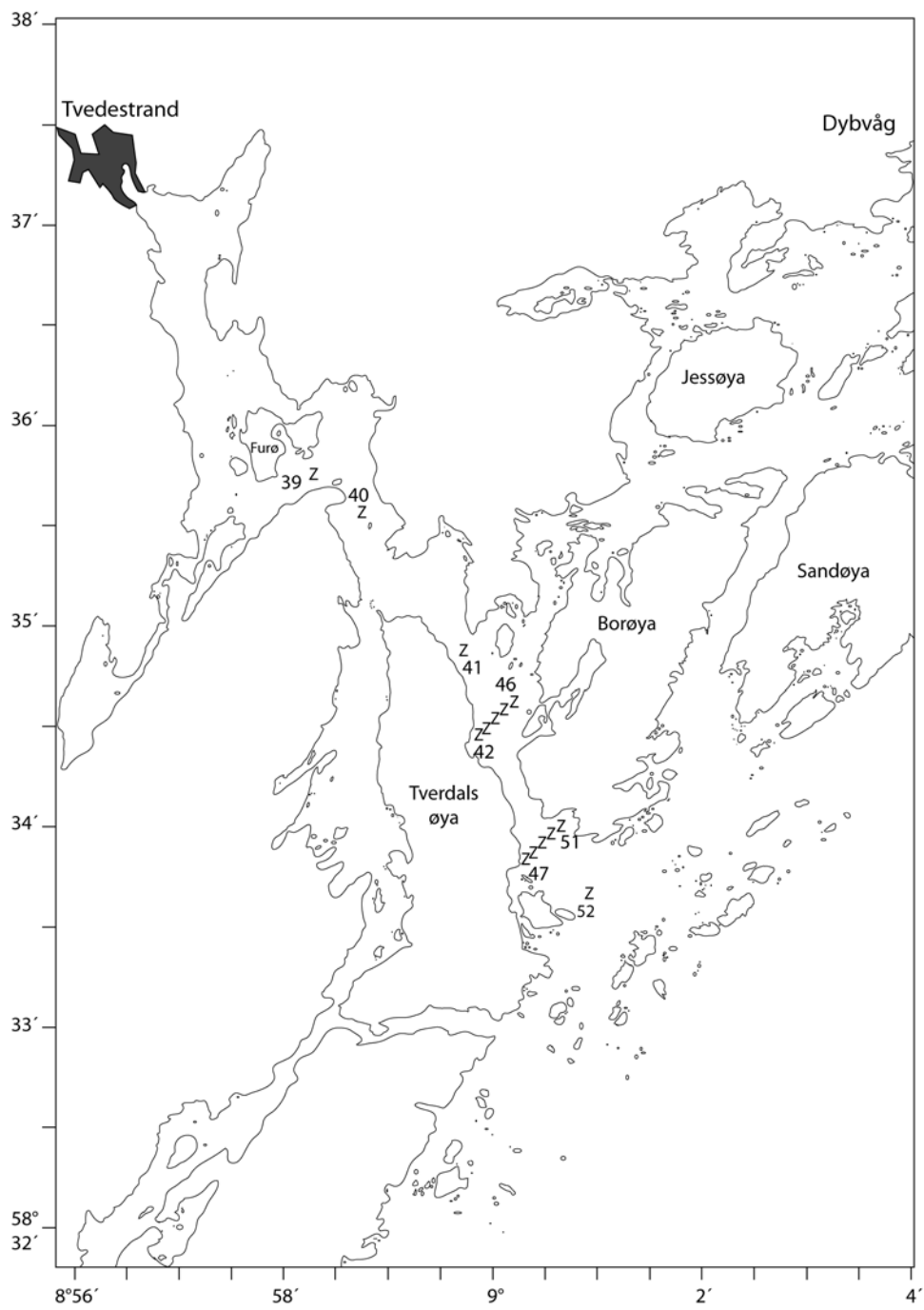
Month	Cruise no	CTD st. no	Comment
January	2006301	1–12	
February	2006304	27–38	
March	2006307	67–78	
April	2006312	97–108	
May	2006312	212–223	
June	2006315	242–253	
July	2006319	261–272	
August	2006320	273–284	
September	2006322	302–313	
October	2006324	359–370	
November	-	-	Not done, due to weather conditions
December	-	-	Not done, due to weather conditions



9–10 Feb 2006
Cruise no 2006305

z CTD st.no 13–26

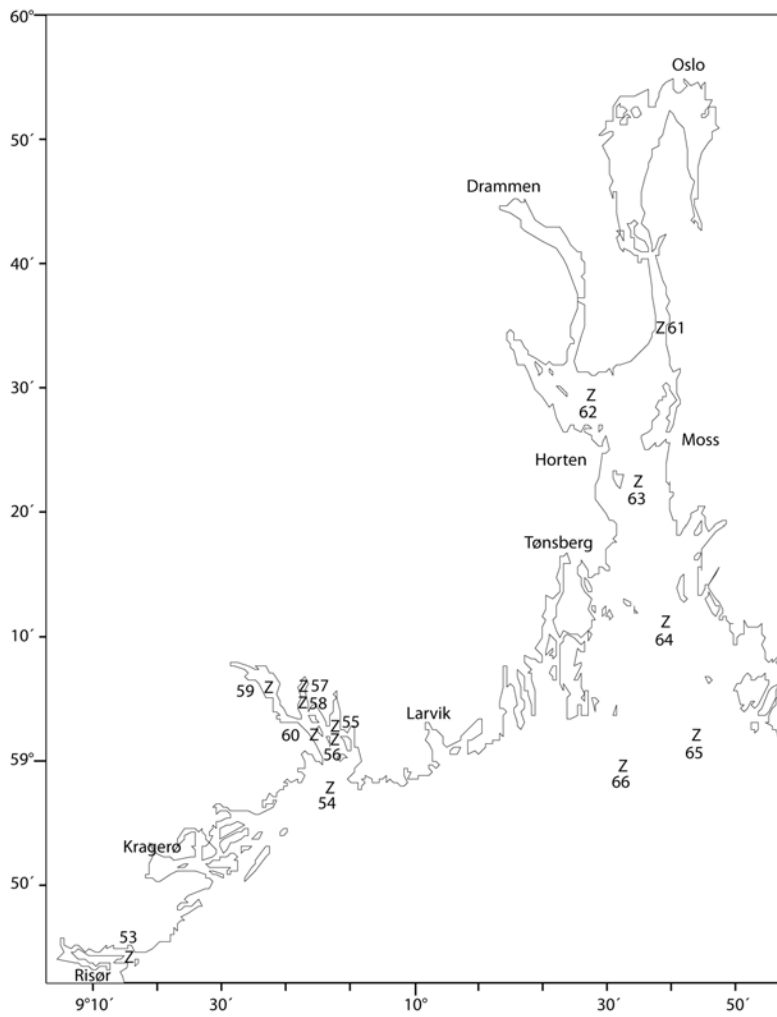
“G. M. Dannevig”



13–14 Feb 2006
Cruise no 2006303

z CTD st.no 39–52

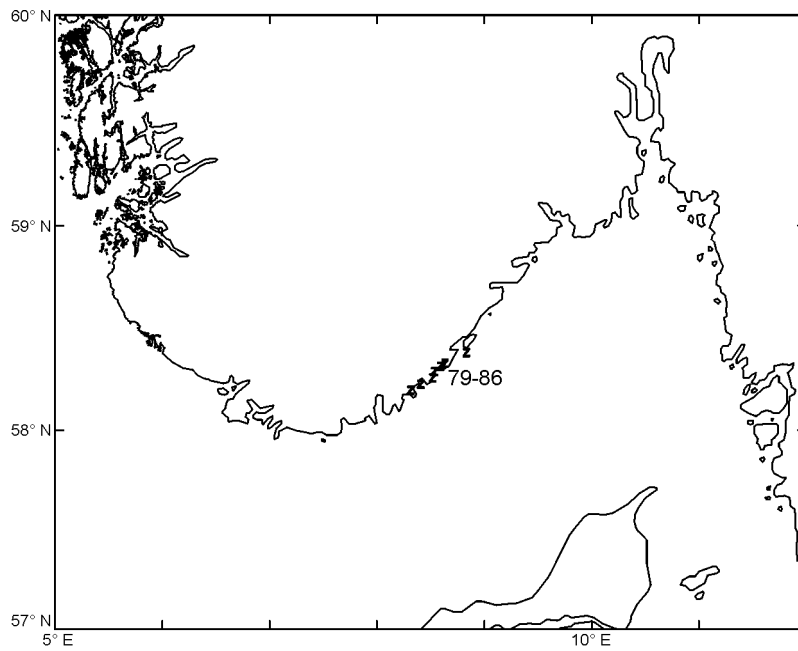
“G. M. Dannevig”



28 Feb–2 Mar 2006
Cruise no 2006308

z CTD st.no 53–66

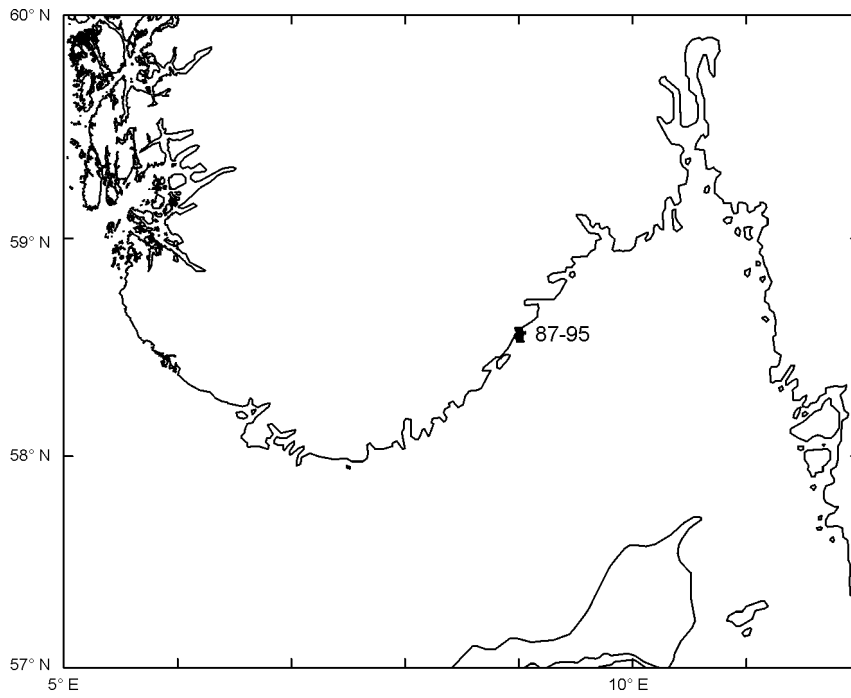
“G. M. Dannevig”



22–23 Mar 2006
Cruise no 2006329

z CTD st.no 79–86

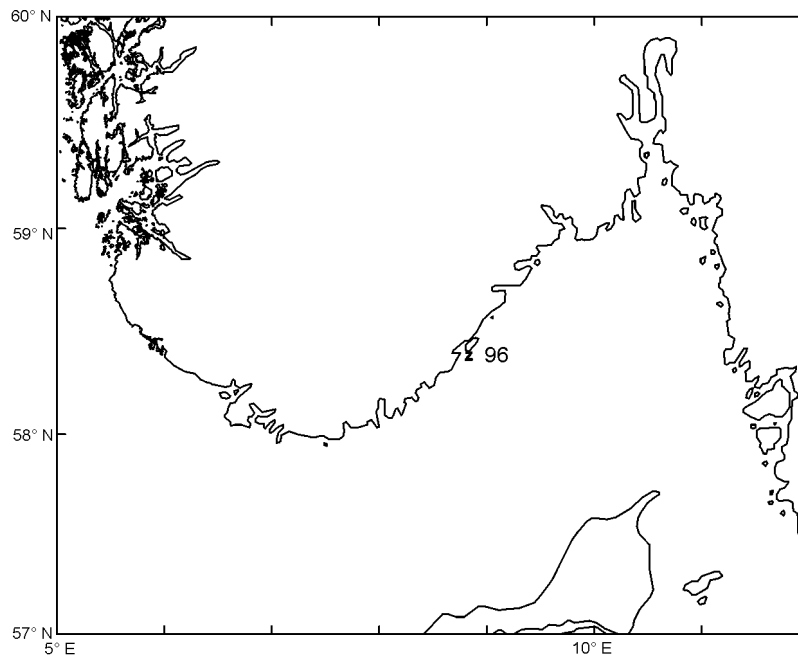
“G. M. Dannevig”



24–27 Mar 2006
Cruise no 2006309

z CTD st.no 87–95

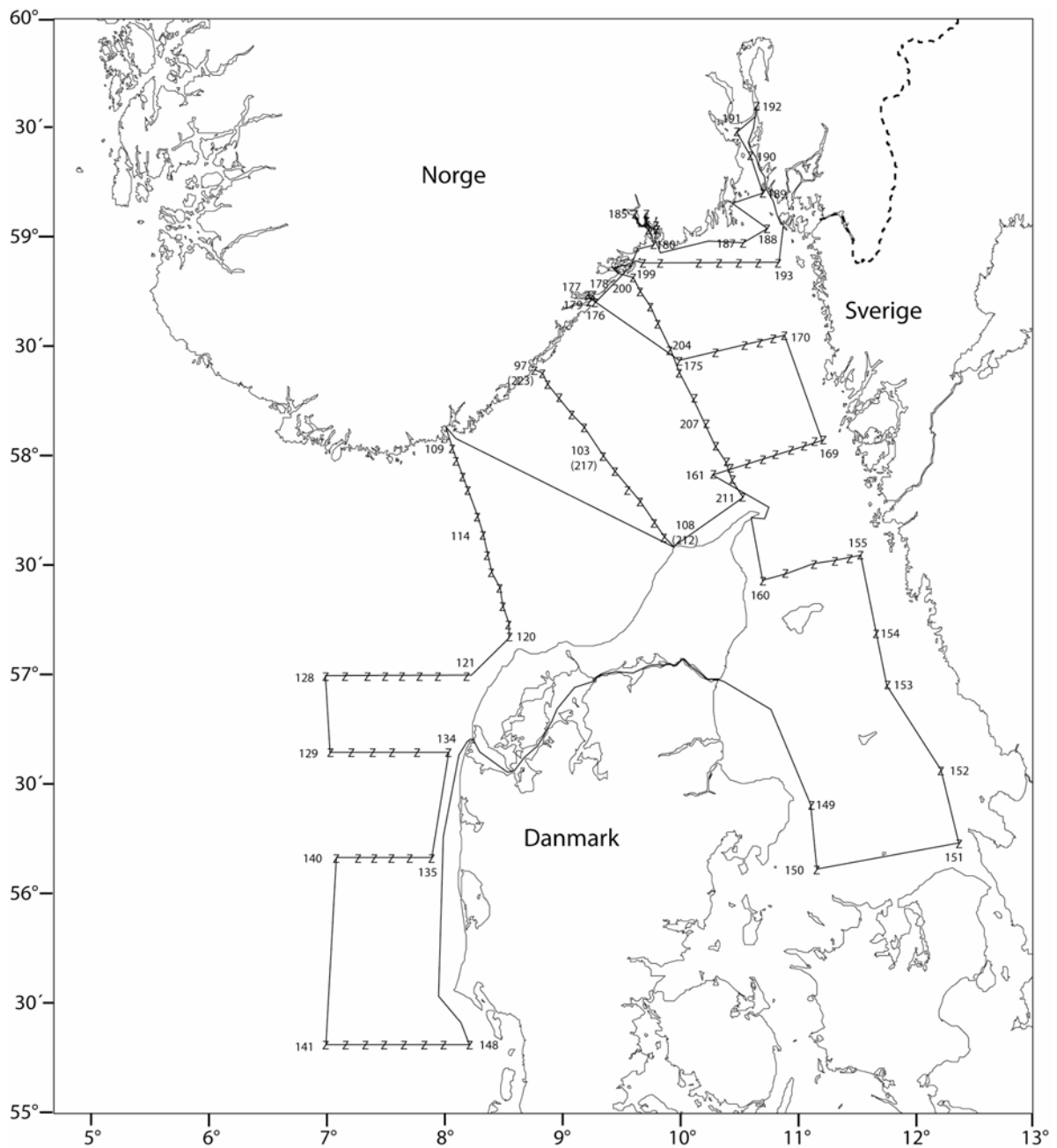
“G. M. Dannevig”



31 Mar 2006
Cruise no 2006310

z CTD st.no 96

“G. M. Dannevig”



19 Apr–7 May 2006
Cruise no 2006312

z CTD st.no 97–223

“G. M. Dannevig”

Standard sections:

Oksøy–Hanstholm st.no 109–120

Torungen–Hirtshals st.no 97–108, 212–223

Jomfruland–Skagen st.no 200–211

Jomfruland–Koster st.no 193–199

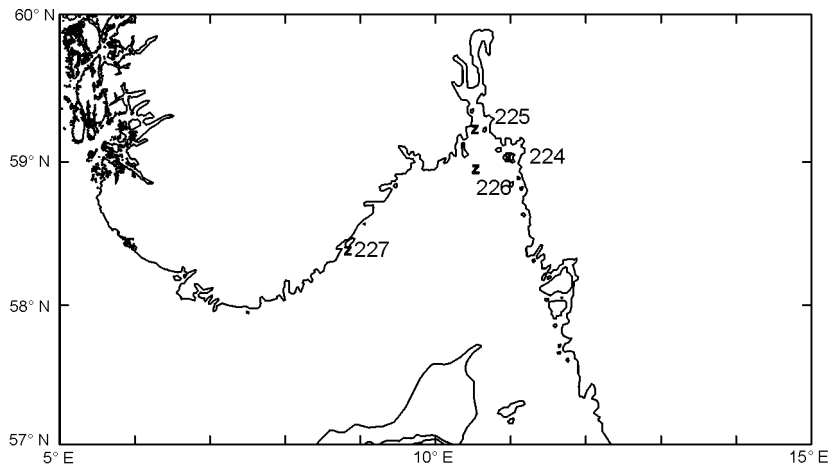
Torbjørnskjær st.no 188

Väderø st.no 170–175

Måseskjær st.no 161–169

Gøteborg–Fredrikshavn st.no 155–160

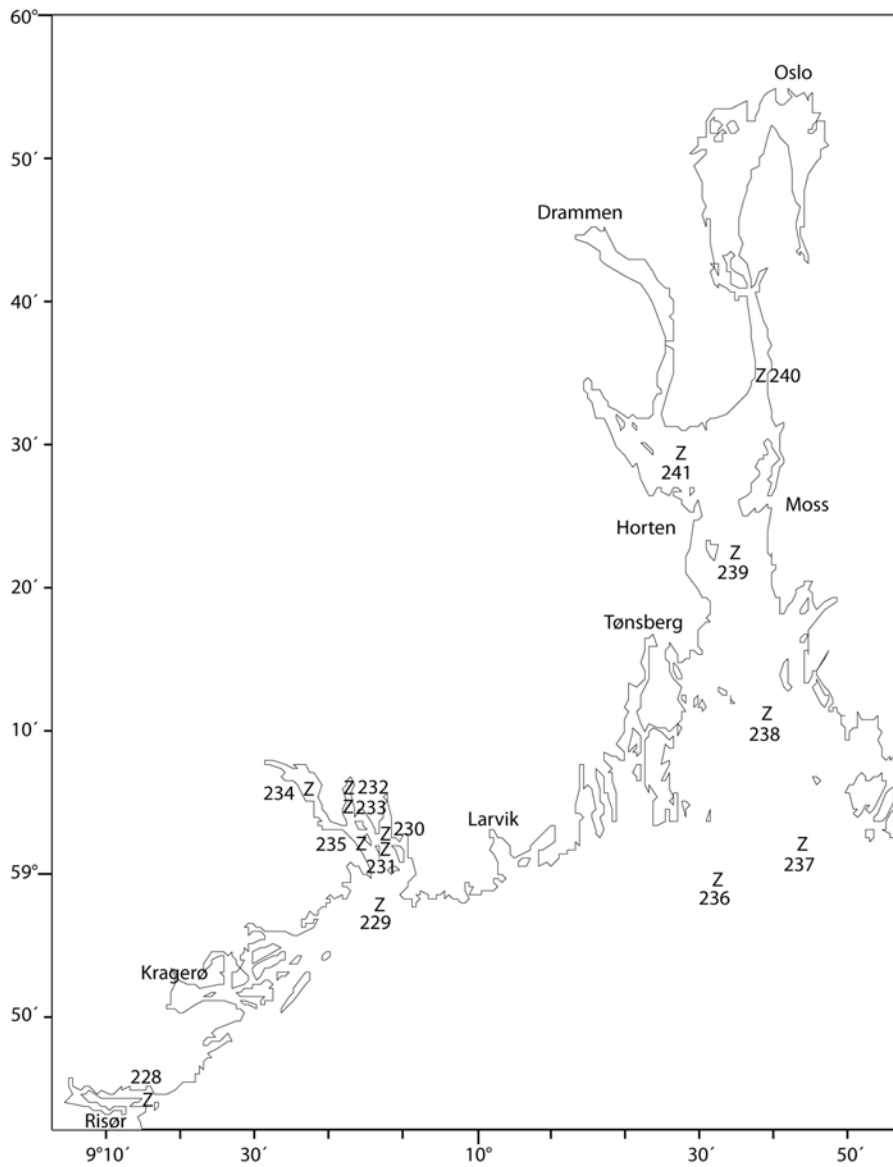
Kattegat st.no 149–154



8–15 May 2006
Cruise no 2006313

z CTD st.no 224–227

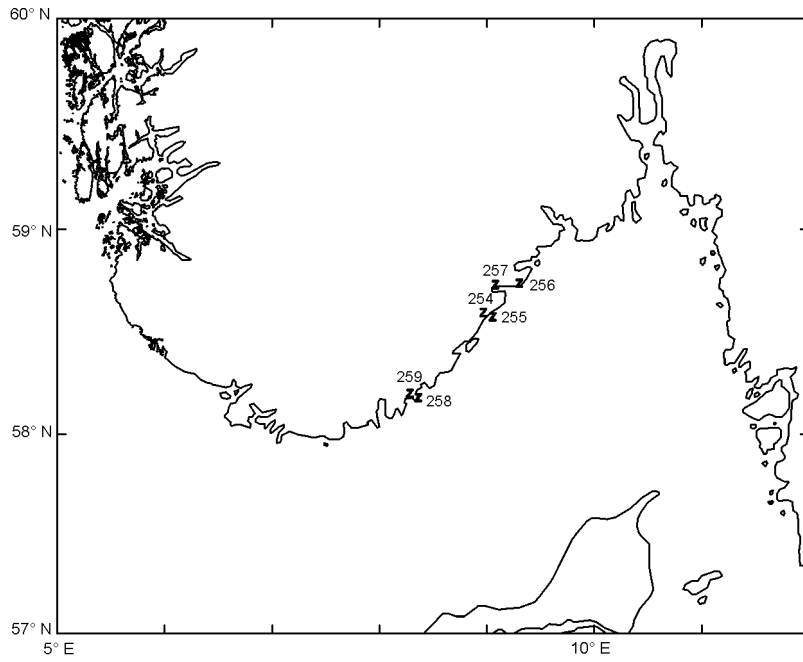
“G. M. Dannevig”



10–11 June 2006
Cruise no 2006314

z CTD st.no 228–241

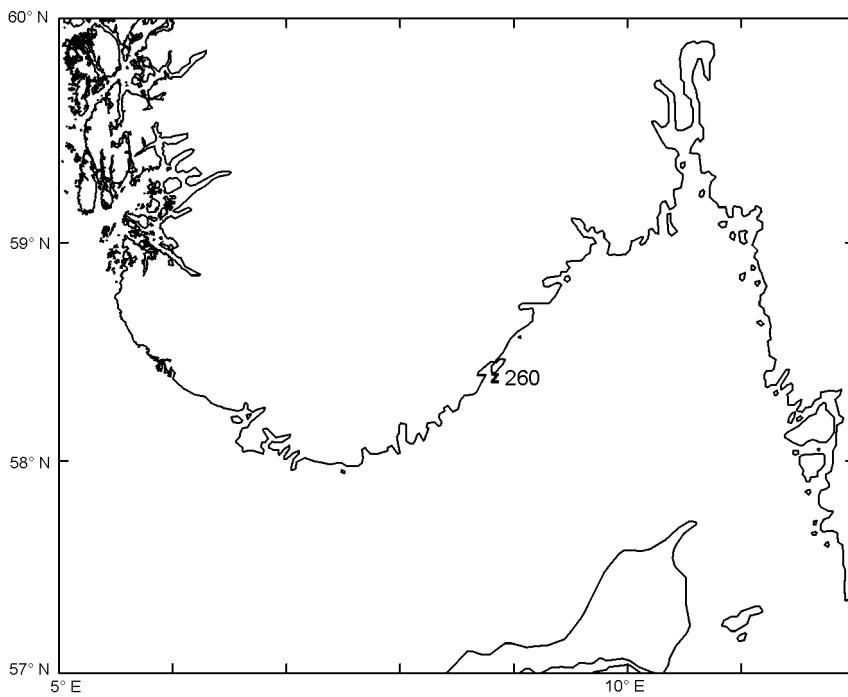
“G. M. Dannevig”



17–21 June 2006
Cruise no 2006316

z CTD st.no 254–259

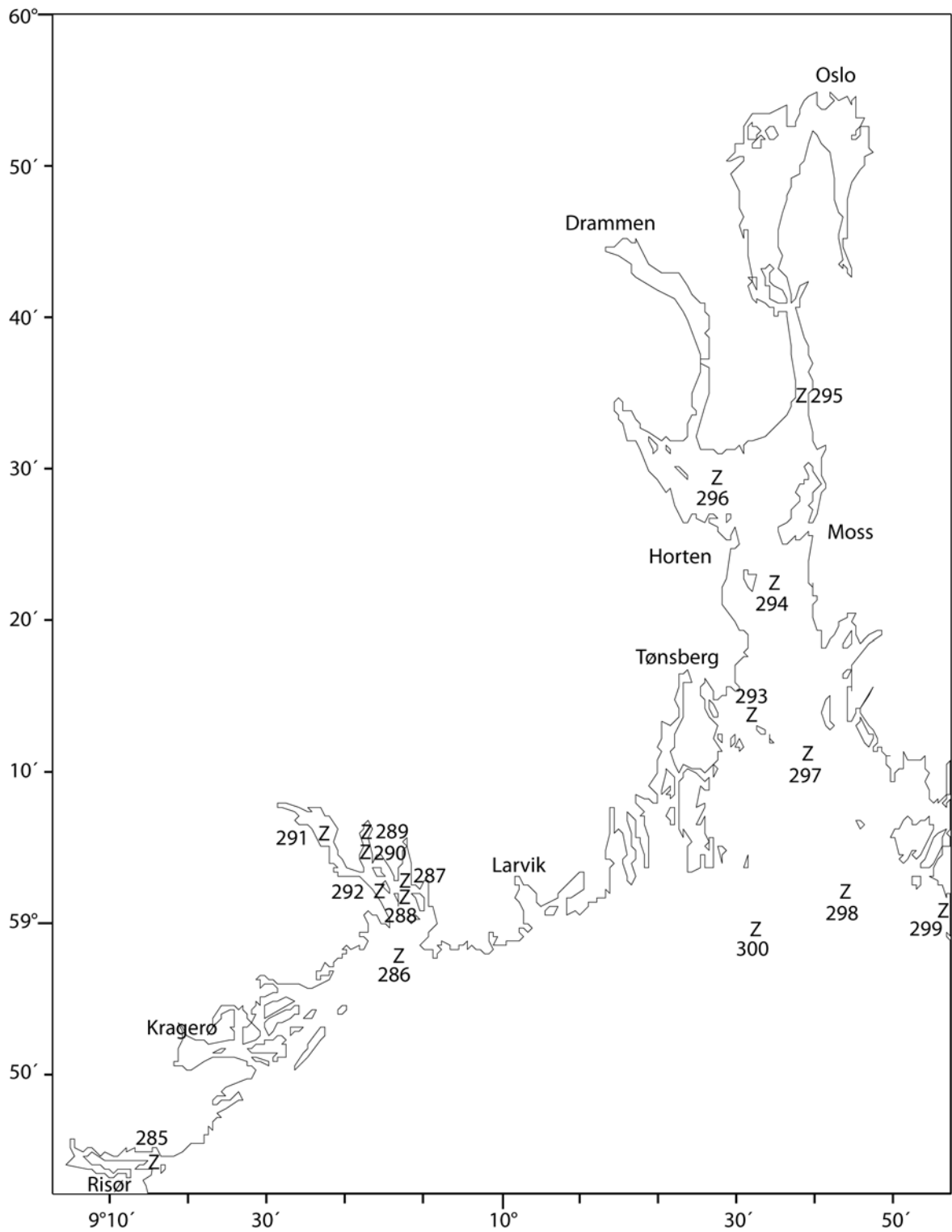
“G. M. Dannevig”



23 June 2006
Cruise no 2006317

z CTD st.no 260

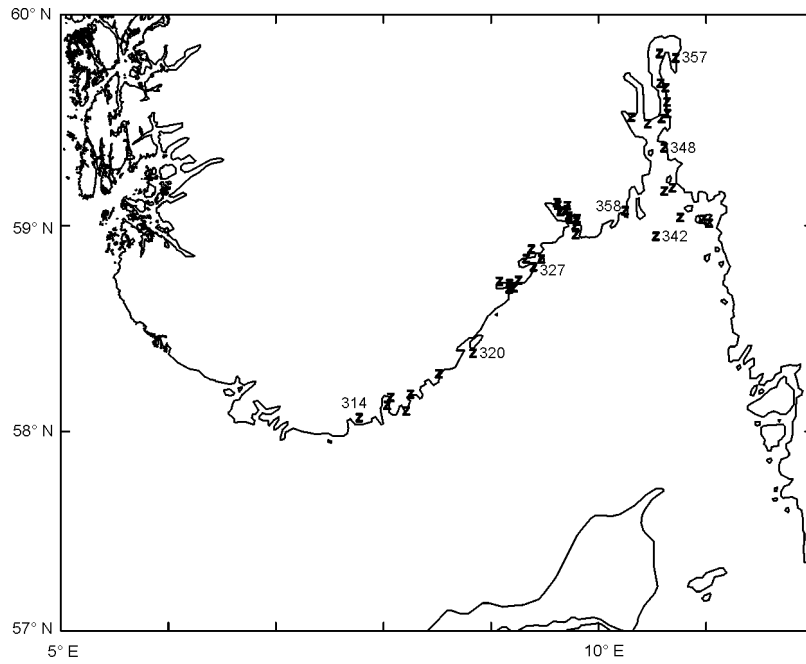
“G. M. Dannevig”



21–31 Aug 2006
Cruise no 2006321

z CTD st.no 285–300

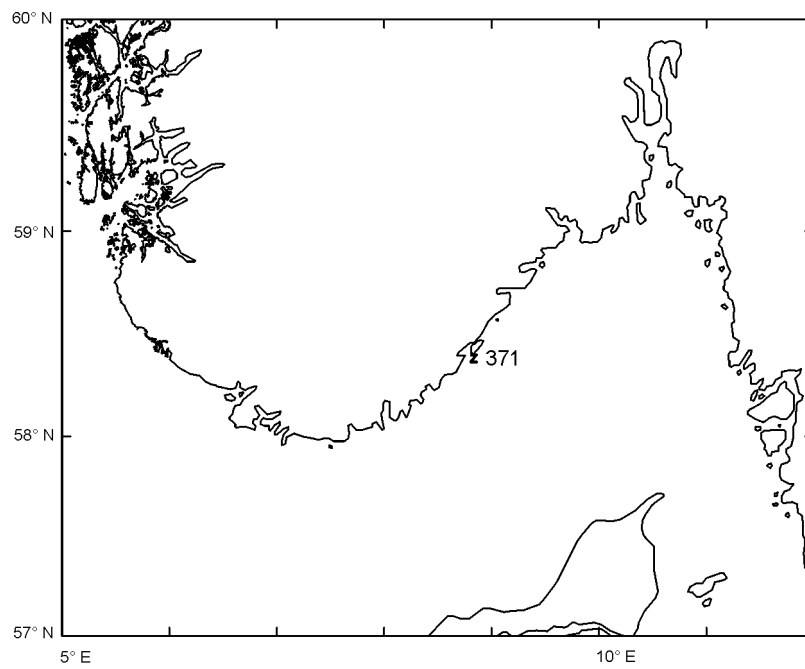
“G. M. Dannevig”



16 Sep–7 Oct 2006
Cruise no 2006323

z CTD st.no 314–358

“G. M. Dannevig”



6 November 2006
Cruise no 2006325

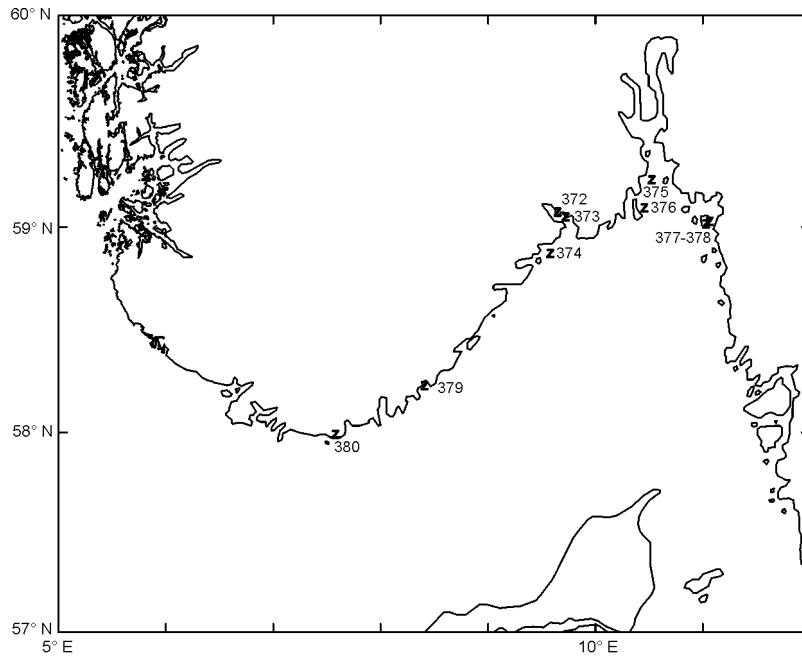
z CTD st.no 371

“G.M.Dannevig”

6 Nov 2006
Cruise no 2006325

z CTD st.no 371

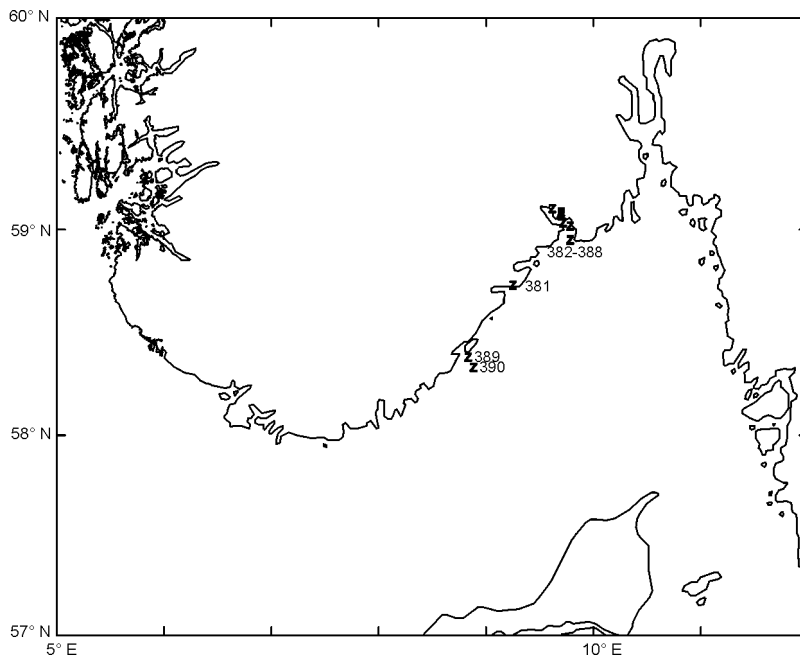
“G. M. Dannevig”



7 Nov–3 Dec 2006
Cruise no 2006326

z CTD st.no 372–380

“G. M. Dannevig”



4–7 Dec 2006
Cruise no 2006328

z CTD st.no 381–390

“G. M. Dannevig”