

PROSJEKTRAPPORT



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Rapport:
FISKEN OG HAVET

Nr.
10 - 2003

Tittel (norsk/engelsk):
Report on oceanographic cruises and data stations 2002

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Distribusjon:

Åpen

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Dato:

Senter:

Marint miljø

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Norsk Marint Datasenter

Antall sider totalt:

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Sammendrag:

Rapporten gir en oversikt over Havforskningsinstituttets forskningsfartøy "G.O. Sars", "Johan Hjort", "Michael Sars" og "G.M. Dannevig"s tokt i 2002. Rapporten inkluderer også noen tokt med universitetets "Håkon Mosby". Først vises oversikt over toktidsrom og nummer. For de fleste toktene vises kart med kurs og stasjoner. Disse oversiktene er også innrapportert til Det internasjonale råd for havforskning (ICES) gjennom "Cruise Summary Report". Data fra toktene er tilgjengelige fra Havforskningsinstituttet, Norsk Marint Datasenter. Rapporten kan brukes til å identifisere båt og stasjonsnummer en ønsker data fra. Digitale versjoner av kartene er til enhver tid tilgjengelig via instituttets intranett: <http://hinnsiden.imr.no/ressurser/toktkart>.

Summary:

Emneord:

1. Kurskart
2. Stasjonskart
- 3.

Subject heading:

1. Cruise track chart
2. Stations chart
- 3.

Helge Krogn
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Prosjektleder

Helge Krogn
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Seksjonsleder

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STANDARD stations and sections	3

"G. O. SARS" 2002

(Ship no 15)

Cruise no	Period of cruises	CTD no	Page of track chart
2002001	17 Jan - 27 Jan	1 - 32	4
2002002	29 Jan - 6 Mar	33 - 175	5-6
2002003	7 Mar - 15 Mar	176 - 223	7
2002004	16 Mar - 2 Apr	224 - 413	8
2002005	4 Apr - 18 Apr	414 - 423	9
2002006	19 Apr - 23 Apr	424 - 443	10
2002007	25 Apr - 29 May	444 - 535	11-12
2002008	3 Jun - 24 Jun	536 - 713	13-15
2002009	27 Jun - 20 Jul	714 - 878	16-17
2002010	27 Jul - 15 Aug	879 - 930	18-19
2002011	16 Aug - 7 Sep	931 - 1020	20
2002012	9 Sep - 23 Sep	1021 - 1060	21-22
2002013	28 Sep - 7 Oct	1061	
2002014	9 Sep - 14 Oct	1062	
2002015	15 Oct - 3 Nov	1063 - 1097	23-25
2002016	6 Nov - 20 Nov	1098 - 1205	26

"JOHAN HJORT" 2002

(Ship no 12)

Cruise no	Period of cruises	CTD no	Page of track chart
2002201	7 Jan - 17 Jan		
2002202	18 Jan - 24 Jan	1 - 36	27
2002203	29 Jan - 4 Mar	37 - 147	28
2002204	6 Mar - 14 Mar	148 - 196	29
2002205	23 Mar - 25 Apr	197 - 300	30-31
2002206	26 Apr		
2002207	27 Apr - 9 May	301 - 494	32
2002208	13 May - 26 May		
2002209	28 May - 18 Jun	495 - 606	33-34
2002210	20 Jun - 6 Jul	607 - 643	35
2002211	20 Jul - 19 Aug	644 - 716	36-37
2002212	23 Aug - 8 Sep	717 - 816	38-39
2002213	9 Sep - 7 Oct	817 - 917	40-41
2002214	11 Oct - 7 Nov	918 - 1006	42
2002215	28 Nov - 17 Dec	1007 - 1032	43-44

"MICHAEL SARS" 2002

(Ship no 11)

Cruise no	Period of cruises	CTD no	Page of track chart
2002101	19 Jan - 22 Feb	1 - 118	45-47
2002102	4 Mar - 6 Apr	119 - 215	48
2002103	8 Apr - 25 Apr	216 - 402	49-50
2002104	27 Apr - 11 May	403 - 524	51-52
2002105	Canceled		
2002114	14 May - 16 May		

2002114	14 May - 16 May		
2002106	21 May - 5 Jun	525 - 722	53
2002107	7 Jun - 6 Jul	723 - 818	54-55
2002108	Canceled		
2002109	9 Aug - 21 Aug		56
2002110	22 Aug - 14 Sep	819 - 883	57-58
2002111	23 Sep - 4 Oct	884 - 931	59-60
2002112	11 Oct - 31 Oct	932 - 1013	61
2002113	2 Nov - 16 Dec	1014 - 1154	62-64

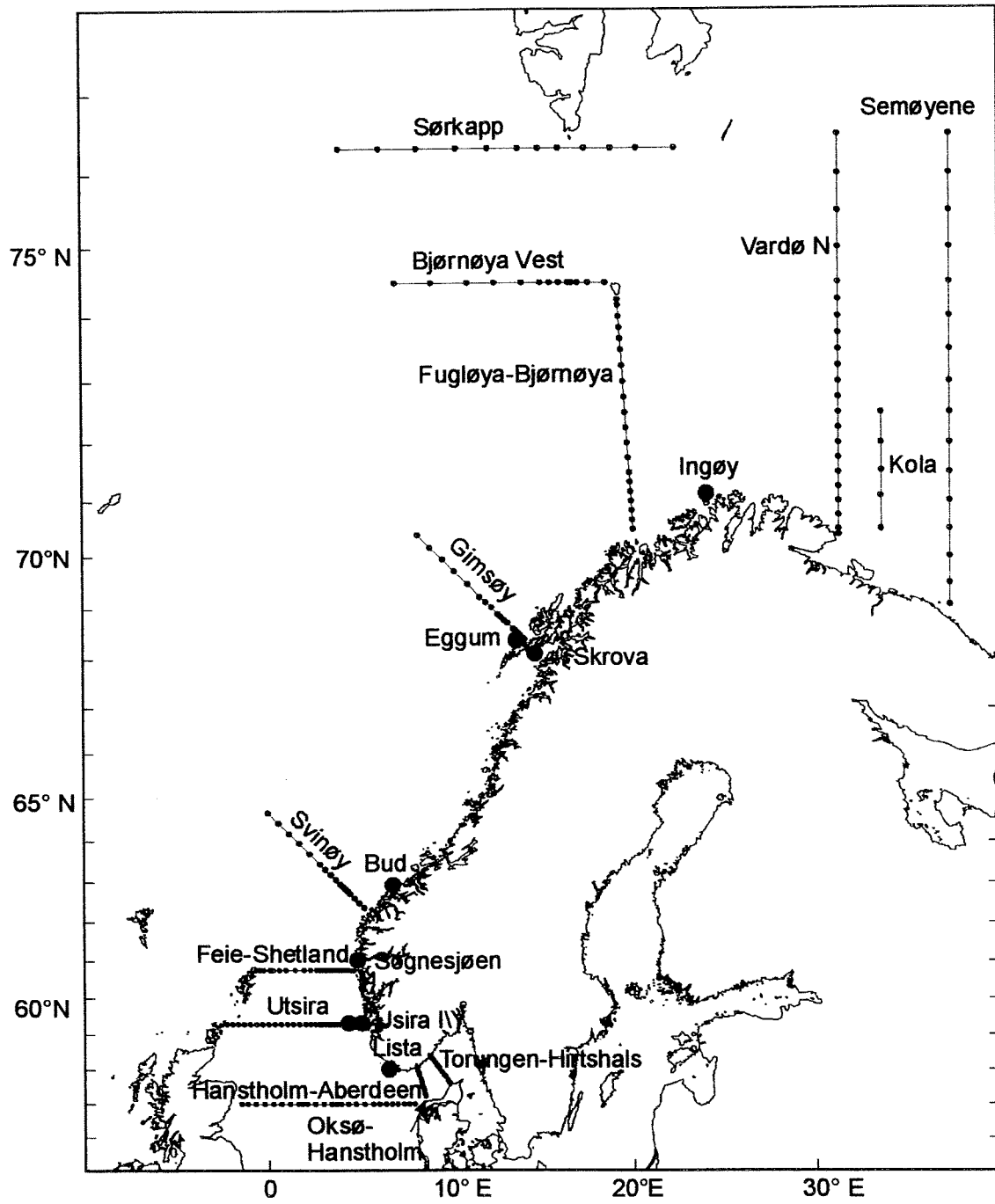
"G. M. DANNEVIG" 2002

(Ship no 16) Cruise no	Period of cruises	CTD no	Page of track chart
2002303	28 Jan - 2 Feb		
2002304	2 Feb	25	
2002305	12 Feb - 13 Feb	26 - 37	65
2002306	14 Feb - 16 Feb	38 - 51	67
2002307	18 Feb - 24 Feb	52 - 60	
2002308	25 Feb	61	
2002309	10 Mar	62	
2002310	10 Mar - 17 Mar	63 - 71	
2002311	18 Mar - 19 Mar	72 - 83	65
2002312	20 Mar - 22 Mar	84 - 97	68
2002313	2 Apr	98	
2002314	2 Apr - 17 Apr		
2002315	19 Apr - 7 Mai	99 - 212	65 and 69
2002316			
2002317			
2002318	8 May - 9 May	213 - 224	65
2002319	27 May		
2002320	27 May - 6 Jun	225 - 226	
2002321	6 Jun - 7 Jun	227 - 238	65
2002322	8 Jun - 10 Jun	239 - 252	70
2002323	13 Jun - 23 Jun	253 - 261	
2002324	24 Jun - 26 Jun	262 - 269	
2002325	27 Jun - 3 Jul	270 - 302	65 and 71
2002326	27 - 28	270 -0284	
2002327	5 Aug - 8 Aug	303 - 328	65
2002328	5 6 aug	303-0316	72
2002329	15 Aug - 26 Aug	329 - 348	
2002330	26 Aug	349	
2002339	27 Aug - 3 Sep	350	
2002330	26 Aug		
2002331	13 Sep - 14 Sep	352 - 363	65
2002332	15 Sep - 3 Oct	364 - 401	
2002333	3 Oct	402	
2002334	6 Oct - 15 Oct	403 - 404	
2002335	16 Oct - 19 Oct	405 - 431	65
2002336	16- 17 10	405 - 419	73
2002337	18 Nov - 19 Nov	432 - 443	65
200238	20 Nov - 3 Des	444 - 449	
2002339	6 Dec - 10 Dec	450 - 475	65

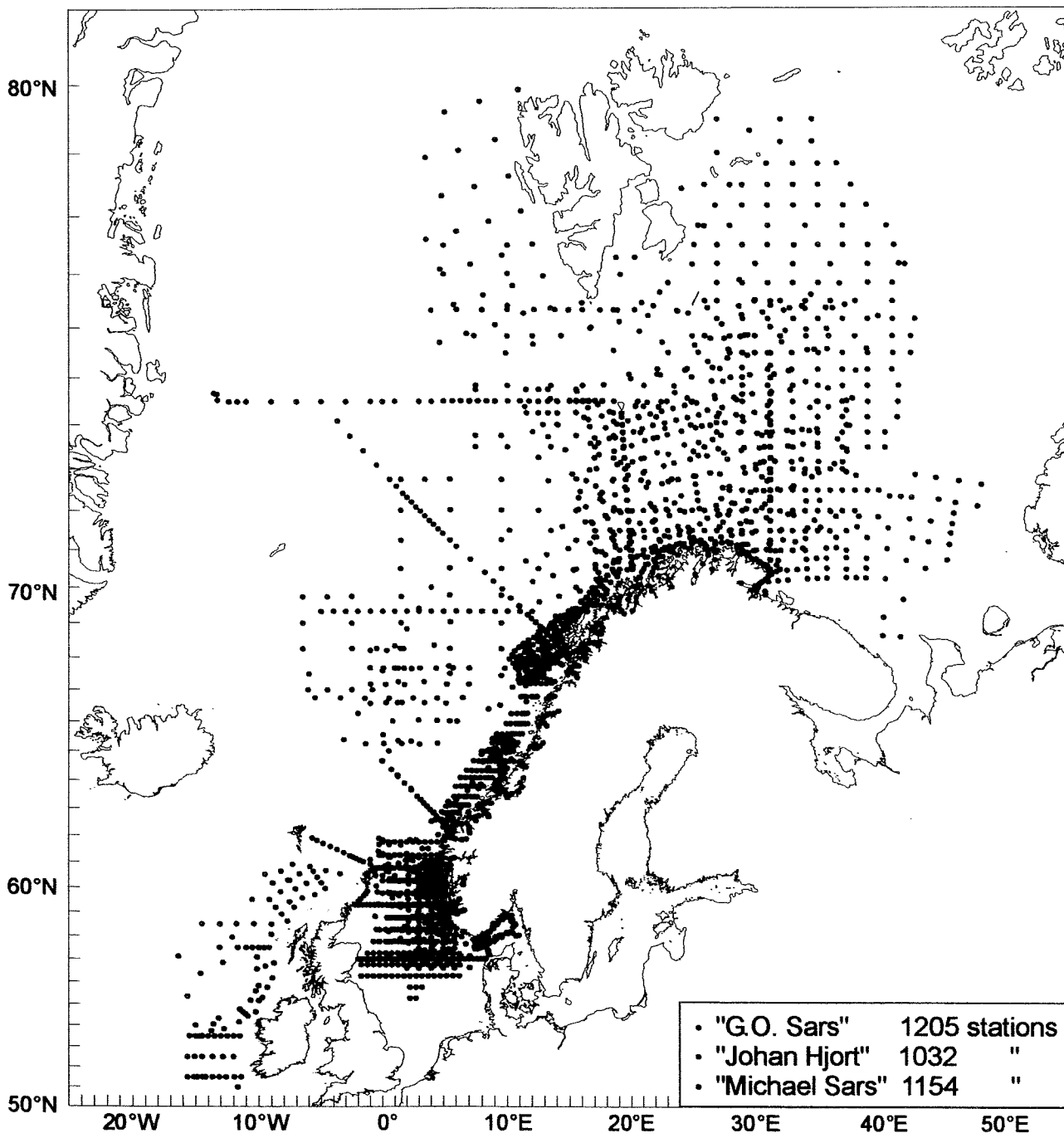
"HAKON MOSBY" 2002

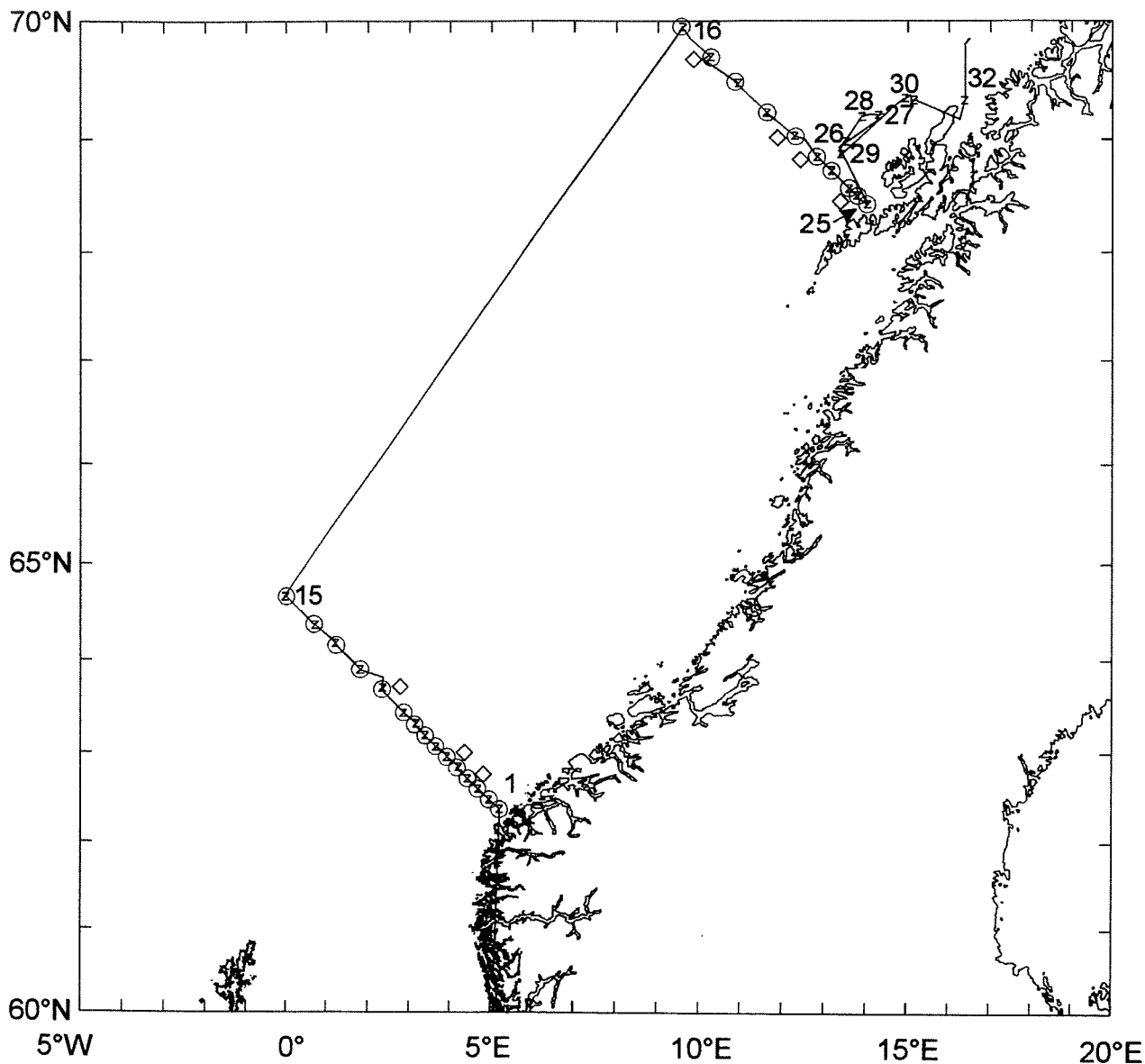
(Ship no 01)

Cruise no	Period of cruises	CTD no	Page of track chart
2002605	4 Mar - 10 Mar		74
2002611	1 May - 20 May		
2002628	19 Jul - 26 Jul		
2002617	4 Aug - 15 Aug		75
2002622	18 Oct - 30 Oct		76
2002623	2 Nov - 10 Nov		77



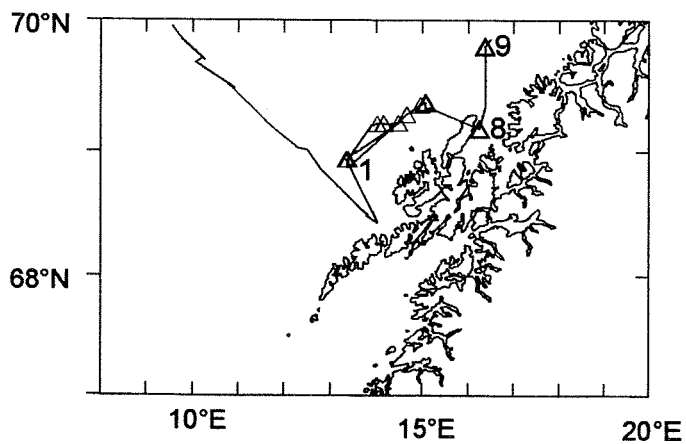
Ctd stations in 2002

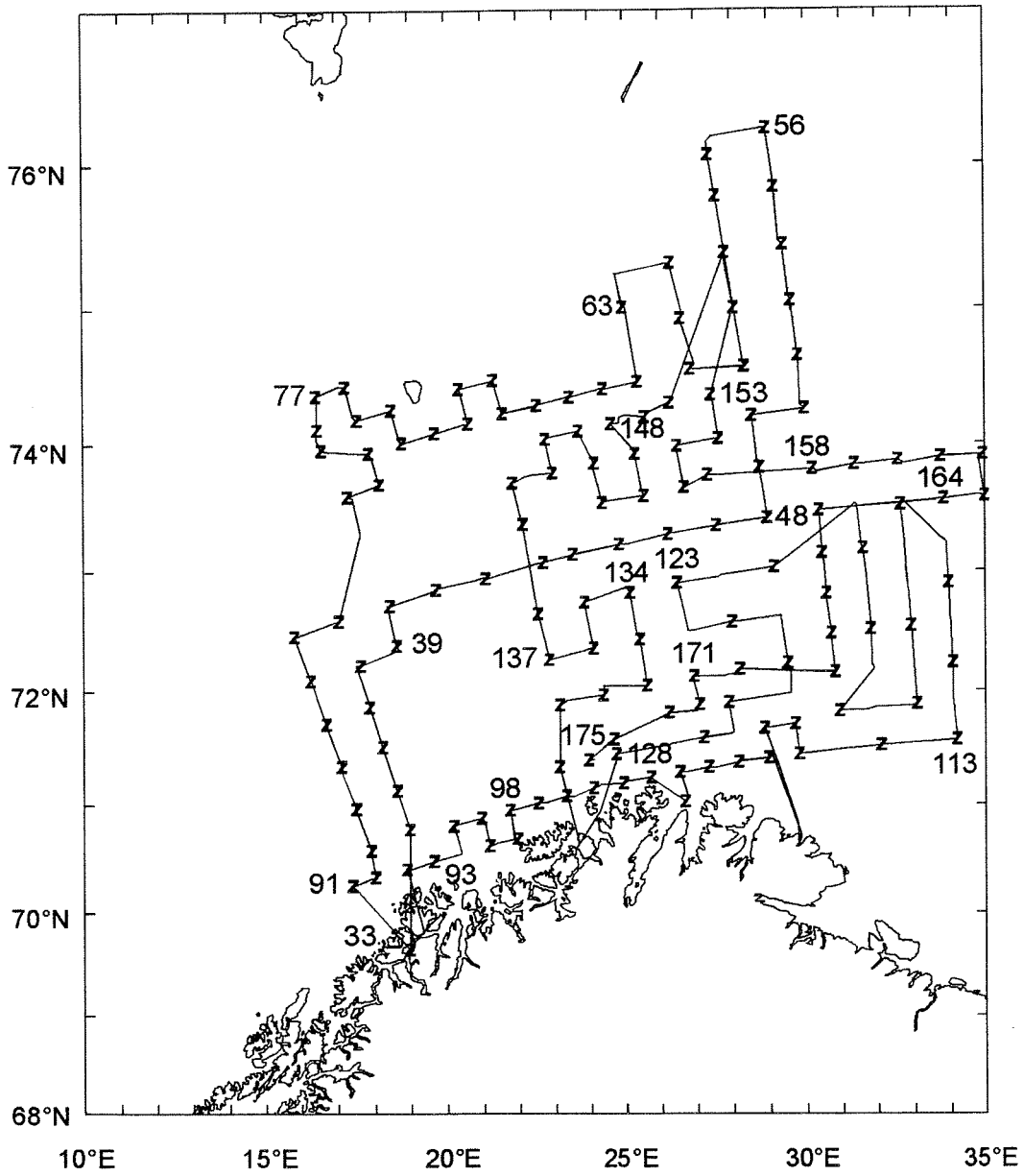




17 - 27 January 2002 "G.O. Sars"
 Cruise no 2002001

- z CTD st.no 1 - 32
- ⊗ CTD and plankton st. (WP-II-net)
- ◇ Mocness st.
- △ Pelagic trawl st.no 1-9
- Standard section Svinøy NW st.no 1-15
- Gimsøy NW st.no 16-25



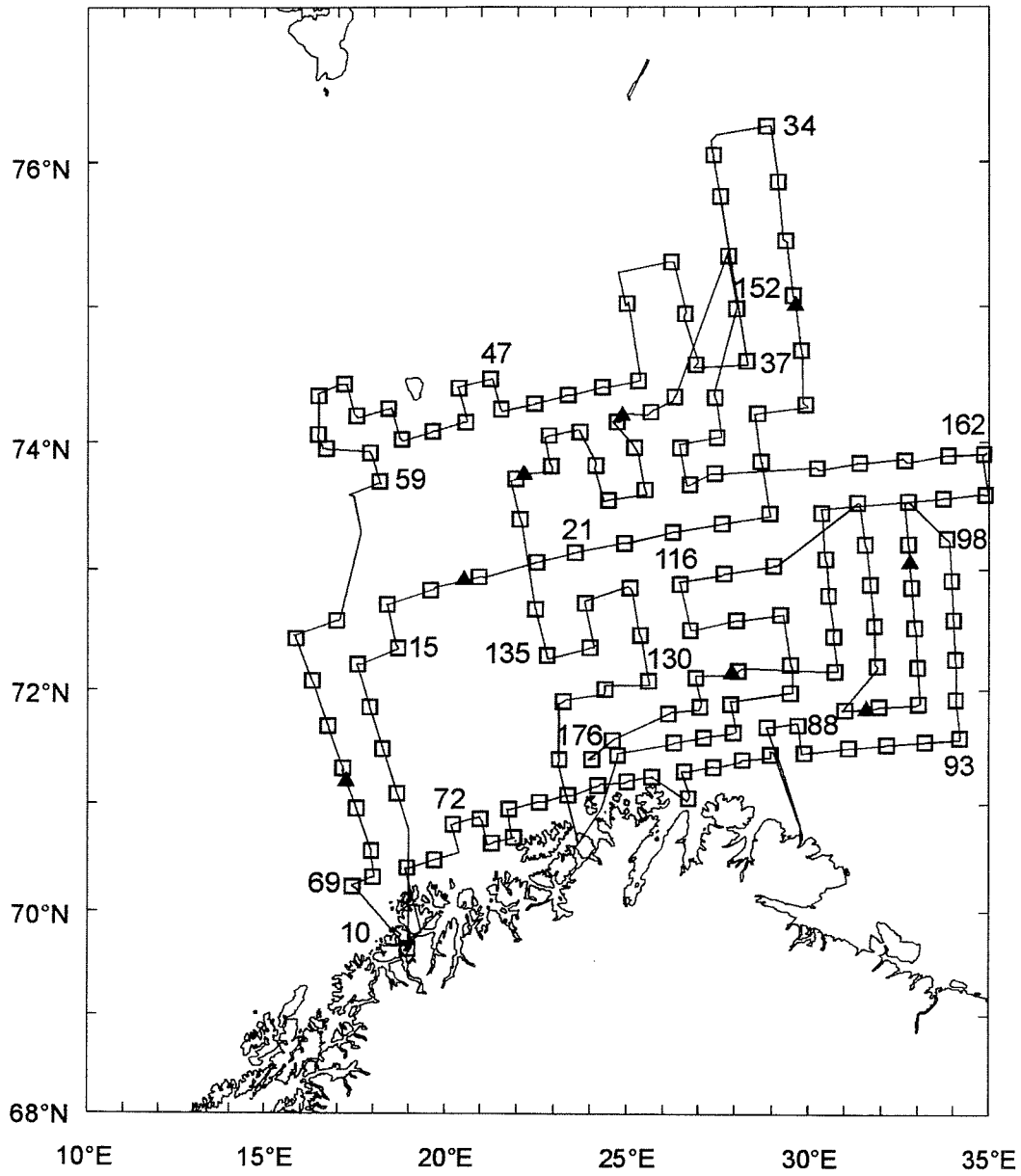


29 Jan - 6 Mar 2002

z CTD st.no 33-175

"G.O. Sars"

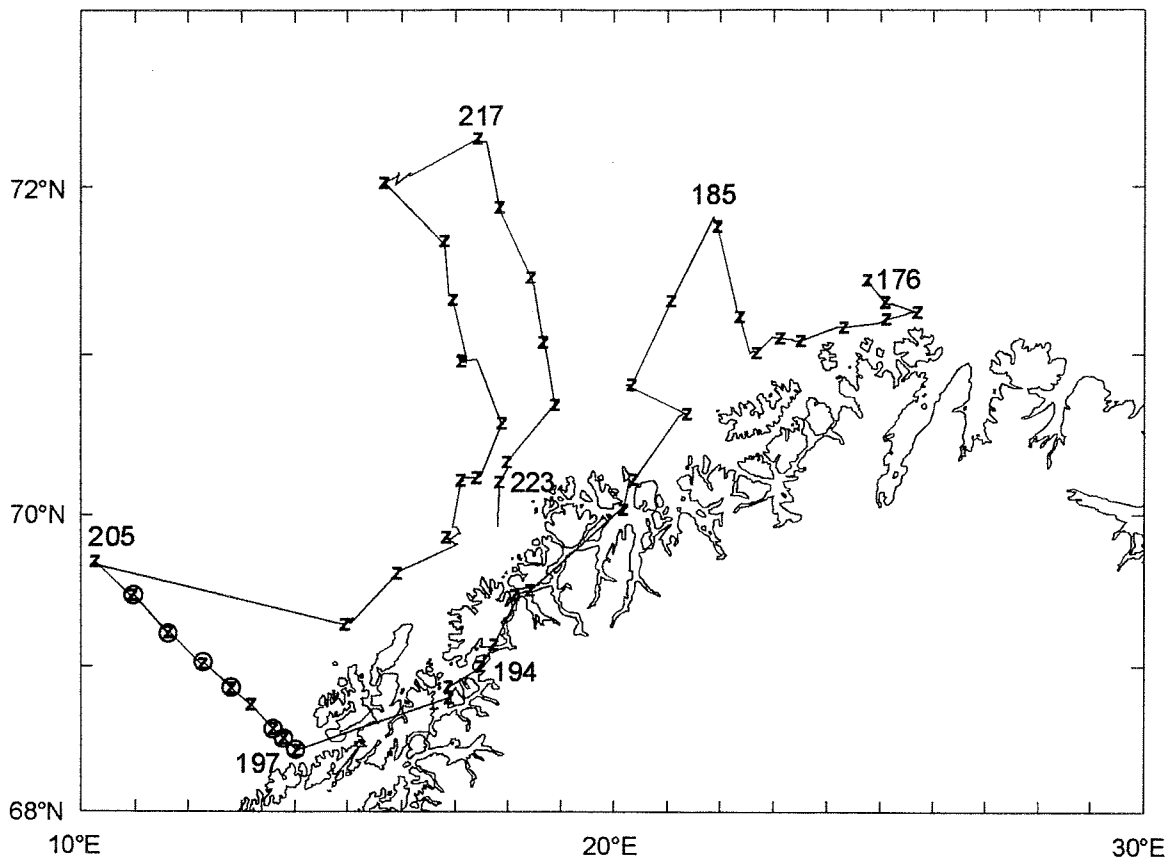
Cruise no 2002002



29 Jan - 6 Mar 2002
Cruise no 2002002

Trawl st.no 10-176
□ Bottom trawl
▲ Pelagic trawl

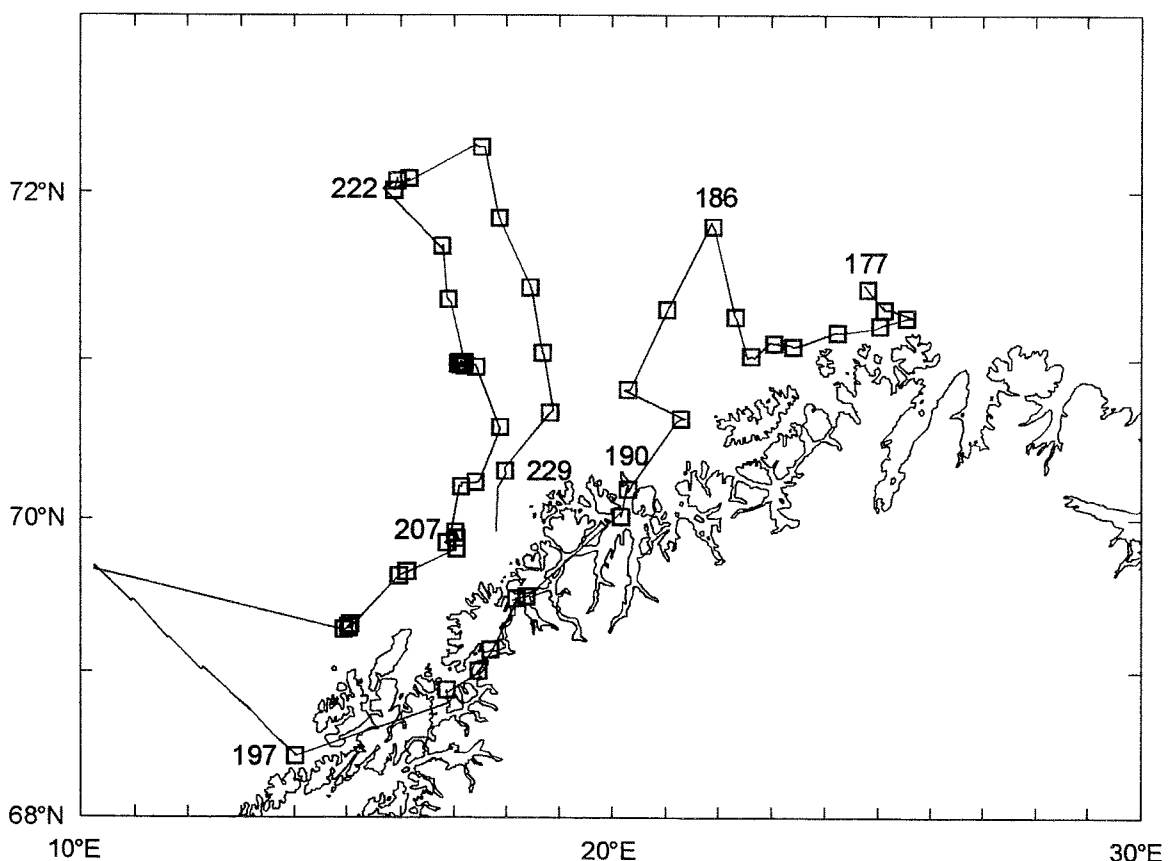
"G.O. Sars"



7 - 15 March 2002003
Cruise no 2002003

z CTD st.no 176 - 223
ⓐ CTD and plankton st (WP-II-net)
Standard section Gimsøy NW: st.no 197-205

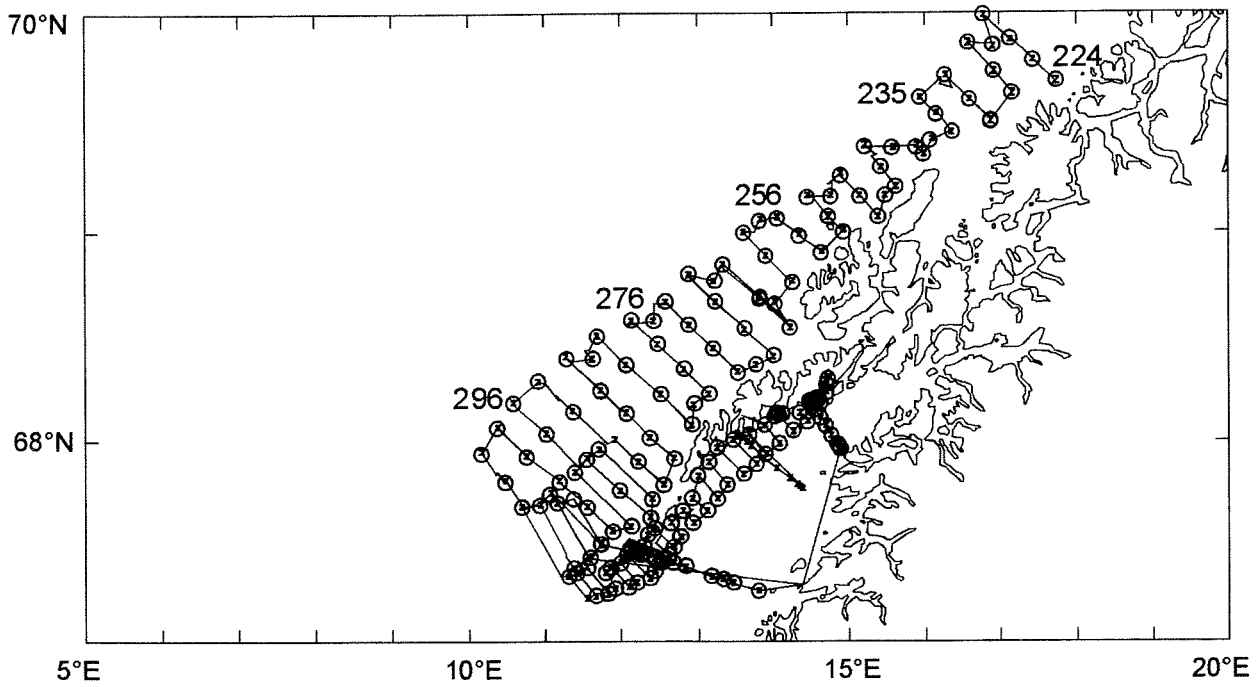
"G. O. Sars"



7 - 15 March 2002003
Cruise no 2002003

□ Bottom trawl st.no 177-229

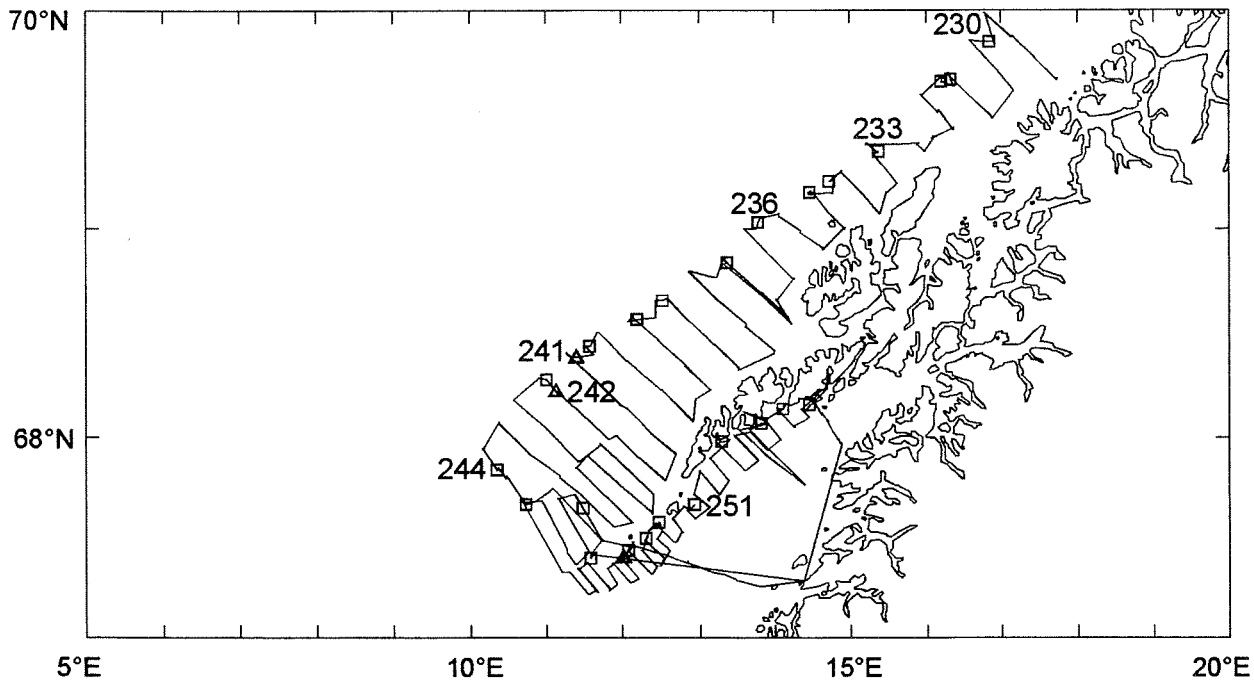
"G. O. Sars"



16 March - 2 April 2002
Cruise no 2002004

z CTD st.no 224 - 413
⊙ CTD and plankton st. (WP-II-net)

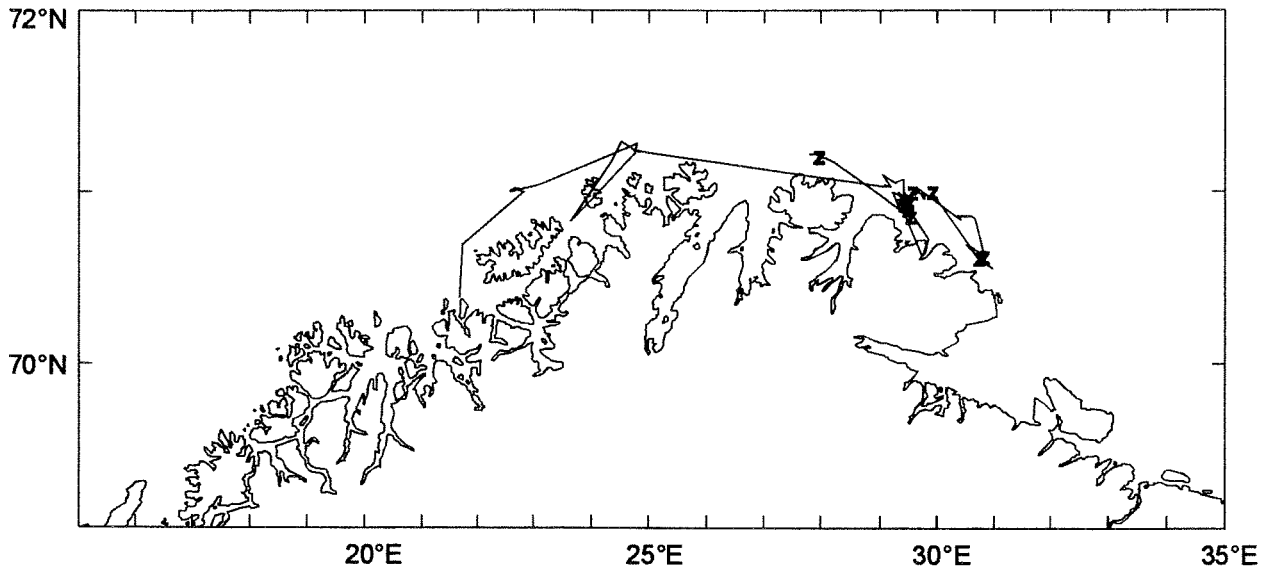
"G. O. Sars"



Trawl st.no 230-257

□ Bottom tr.
△ Pelagic tr.

"G. O. Sars"

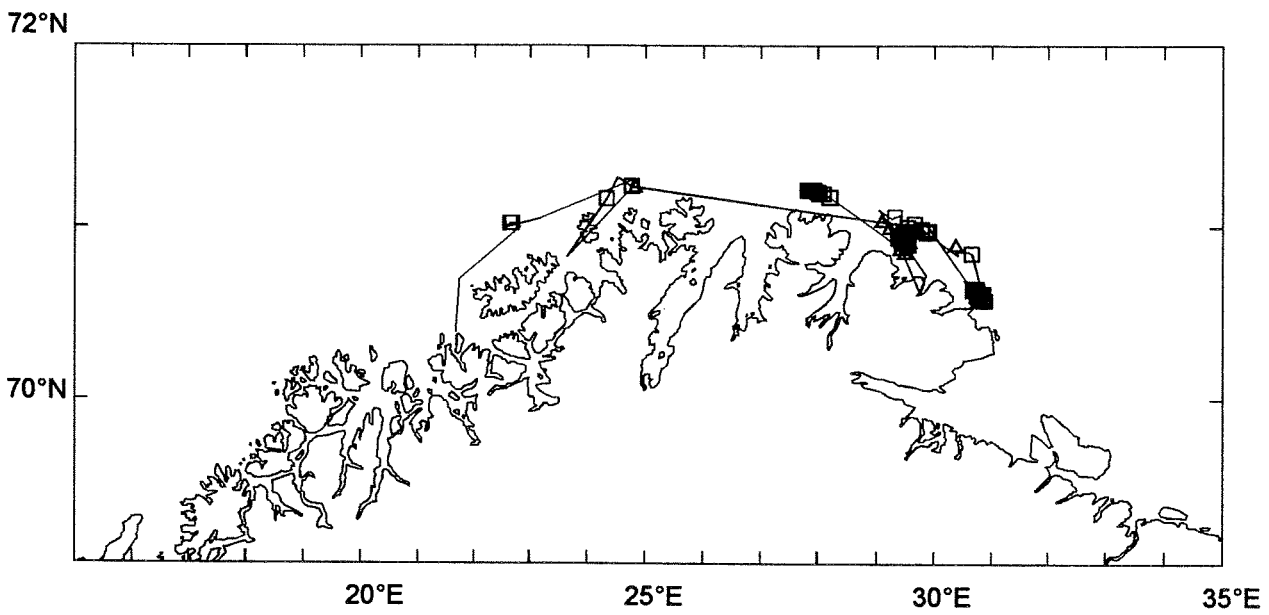


4 - 18 April 2002

z CTD st.no 414-423

"G. O. Sars"

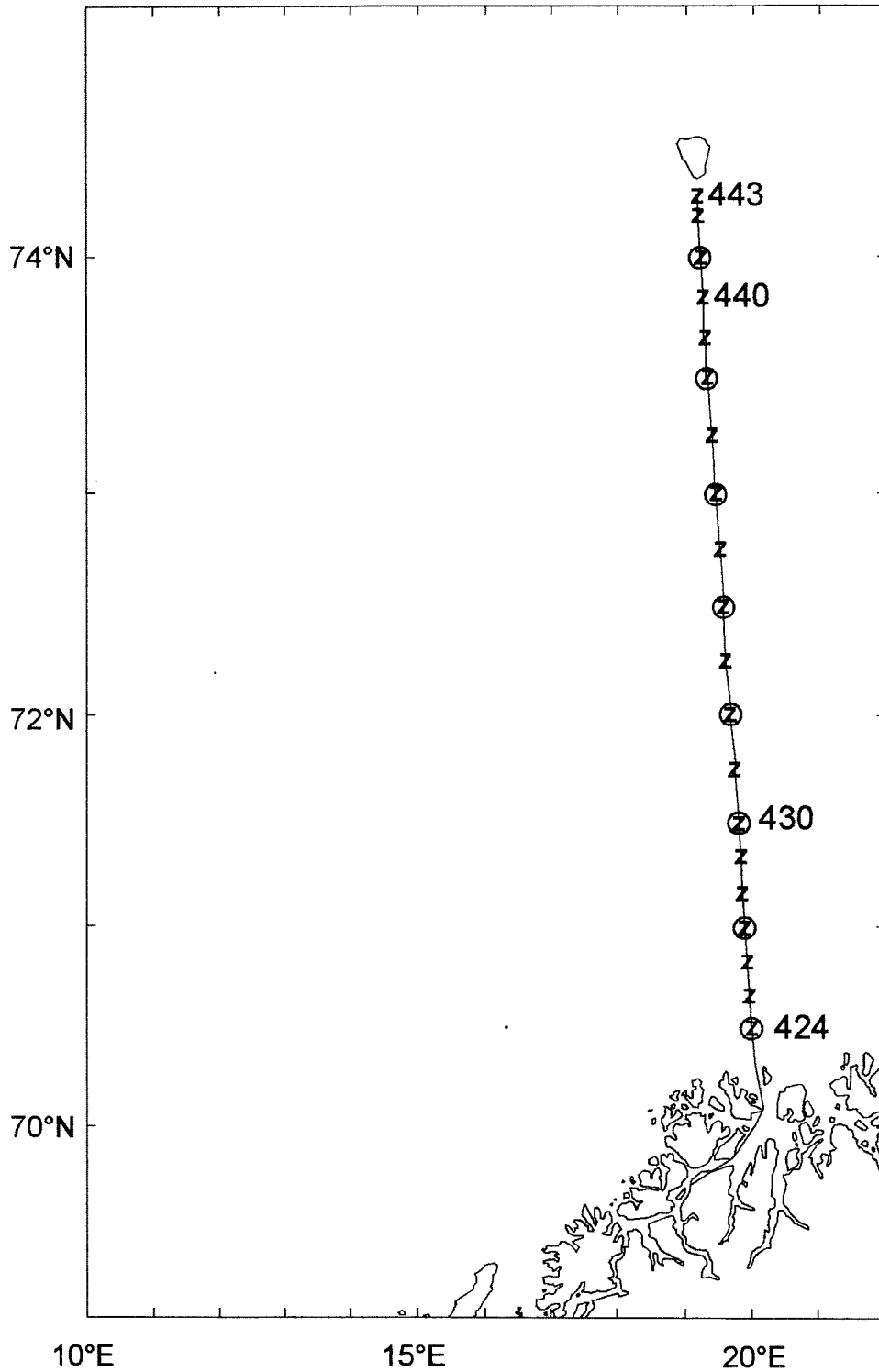
Cruise no 2002005



Trawl st.no 258-338

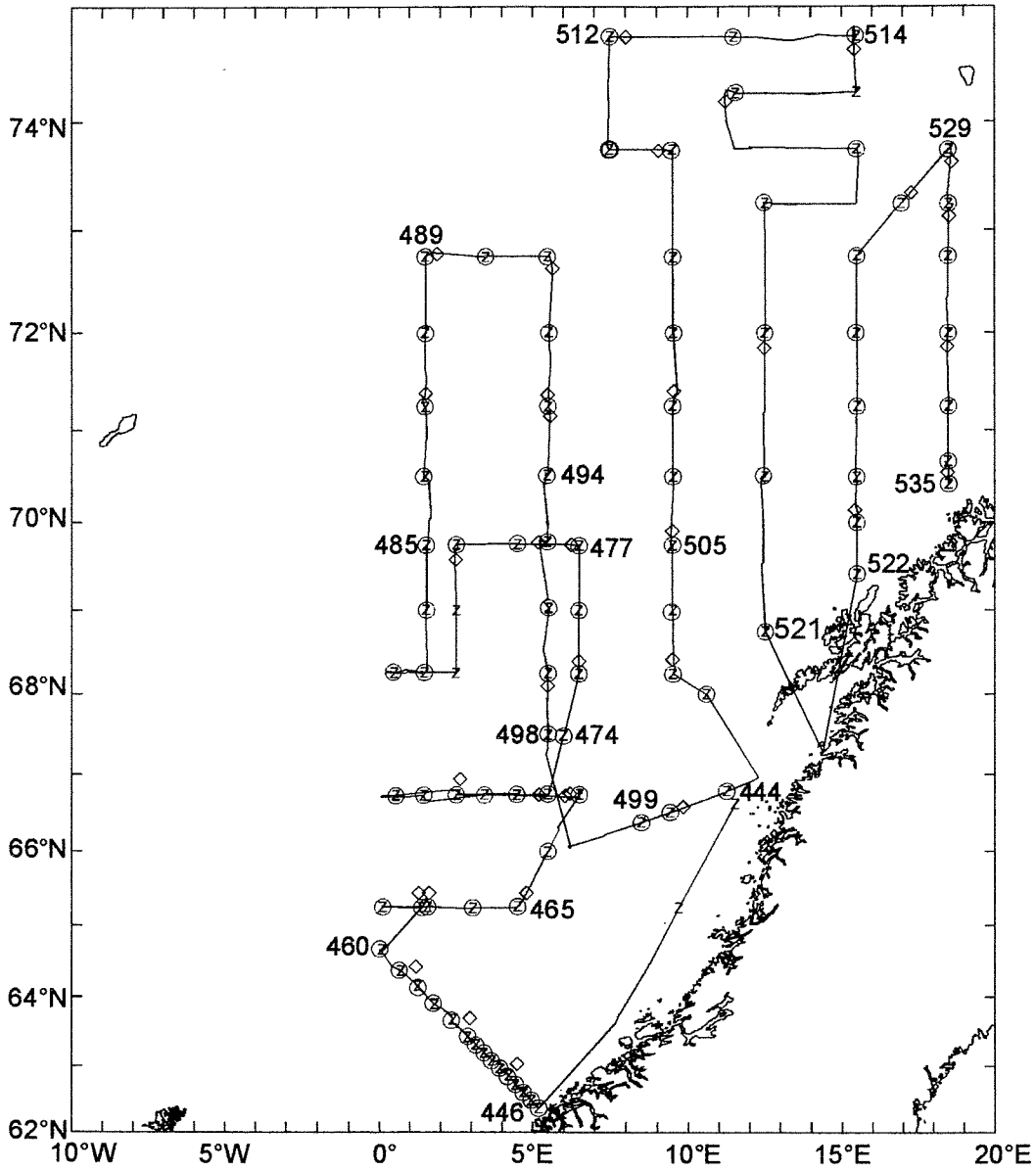
□ Bottom trawl

△ Pelagic trawl



19 - 23 April 2002
Cruise no 2002006

Standard section Fugløy - Bjørnøya "G.O. Sars"
z CTD st.no 424 - 443
Ⓢ CTD and plankton st. (WP-II-net)

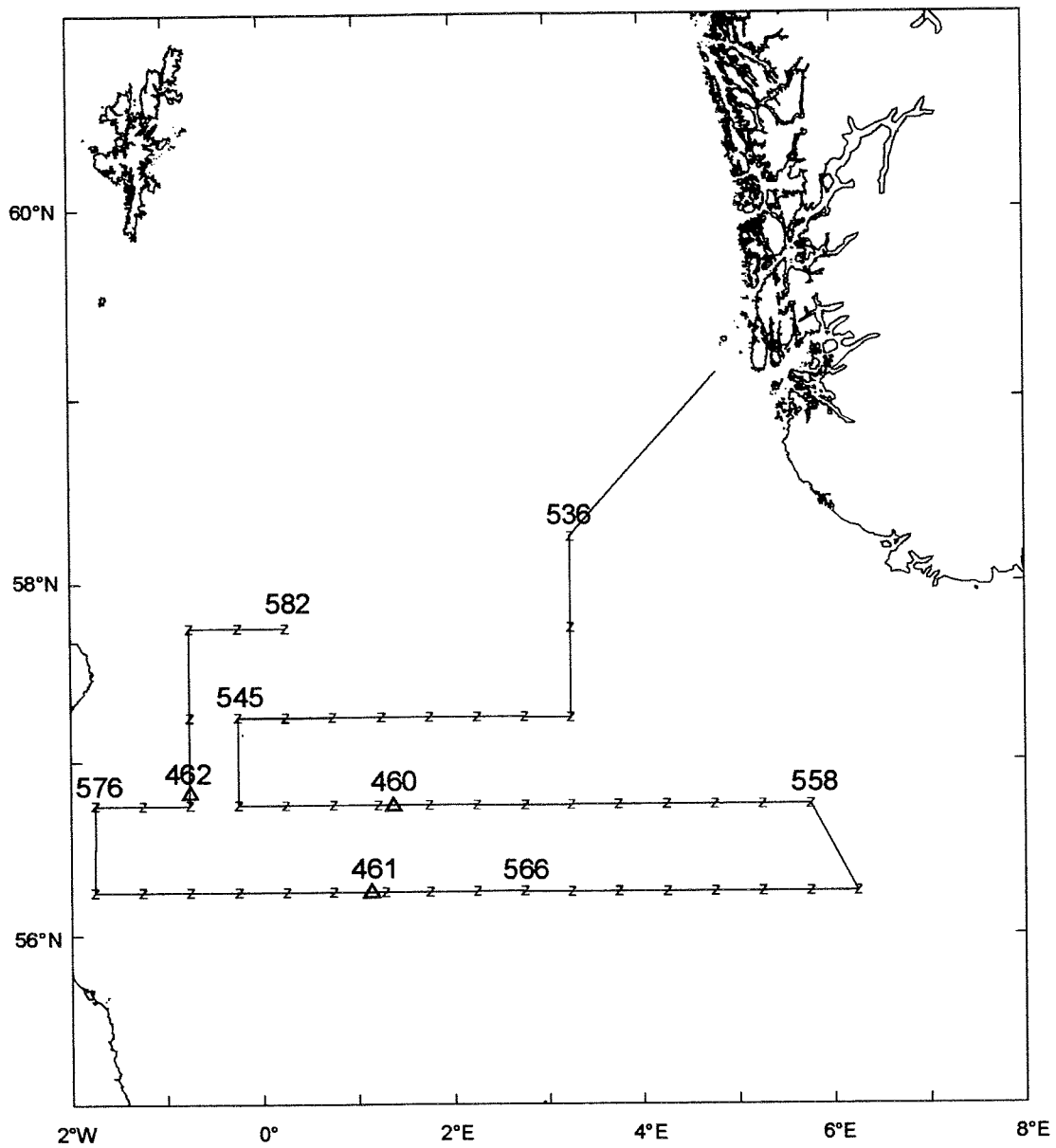


25 April - 29 May 2002
 Cruise no 2002007

z CTD st.no 444-535
 ⊙ CTD and plankton st (WP-II-net)
 ◇ MOCNESS st.

"G.O. Sars"

Standard section Svingøy NW st.no 446-460



Cruise no 2002008
3 - 24 June 2002

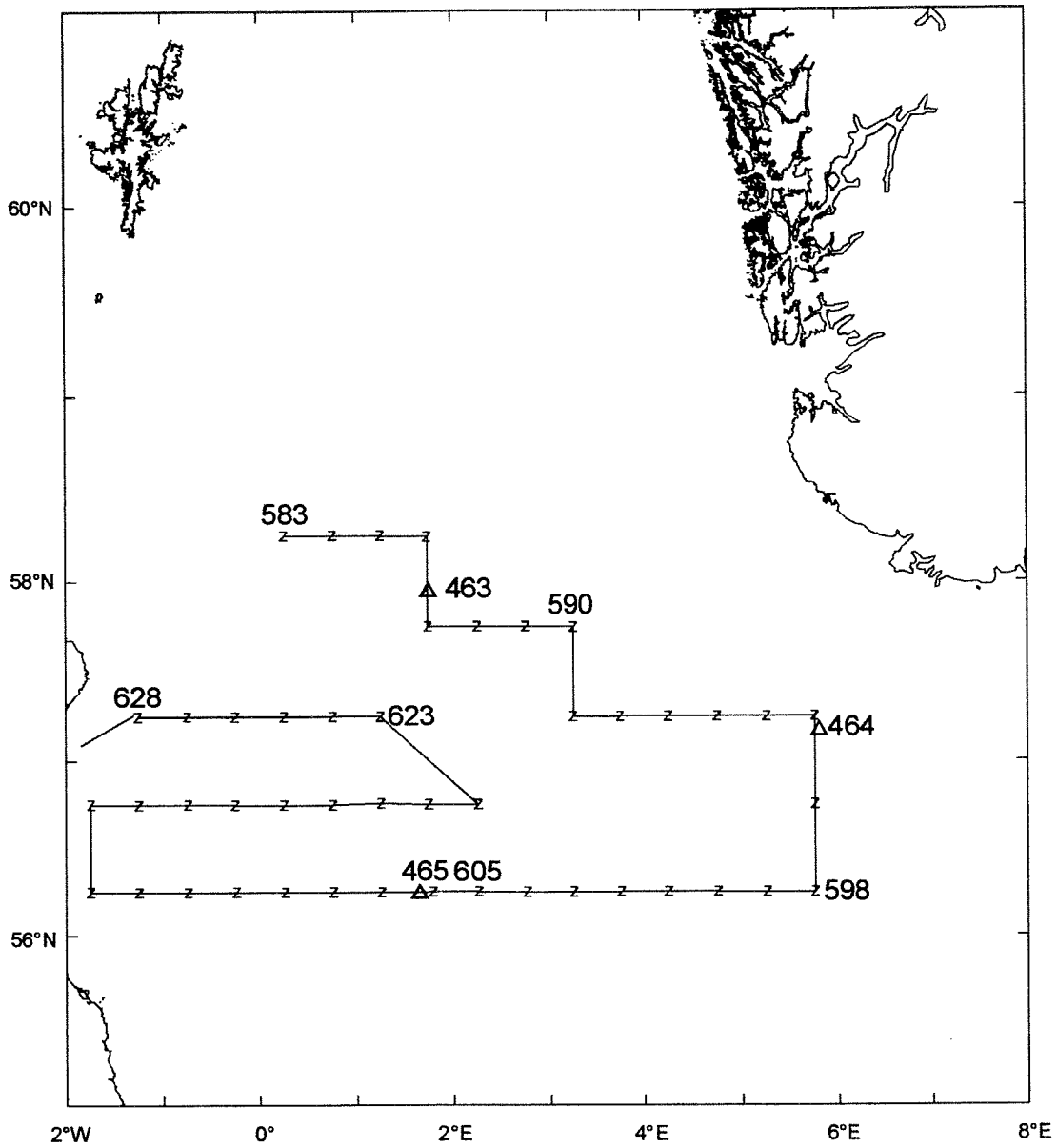
Part I: 3 - 9 June

"G.O. Sars"

z Ctd and plankton st. (20 cm bongo sampler)
(st. 566 only ctd st.)

z Ctd st.no 536 - 582

Δ Pelagic trawl st.no 460 - 462



Cruise no 2002008
3 - 24 June 2002

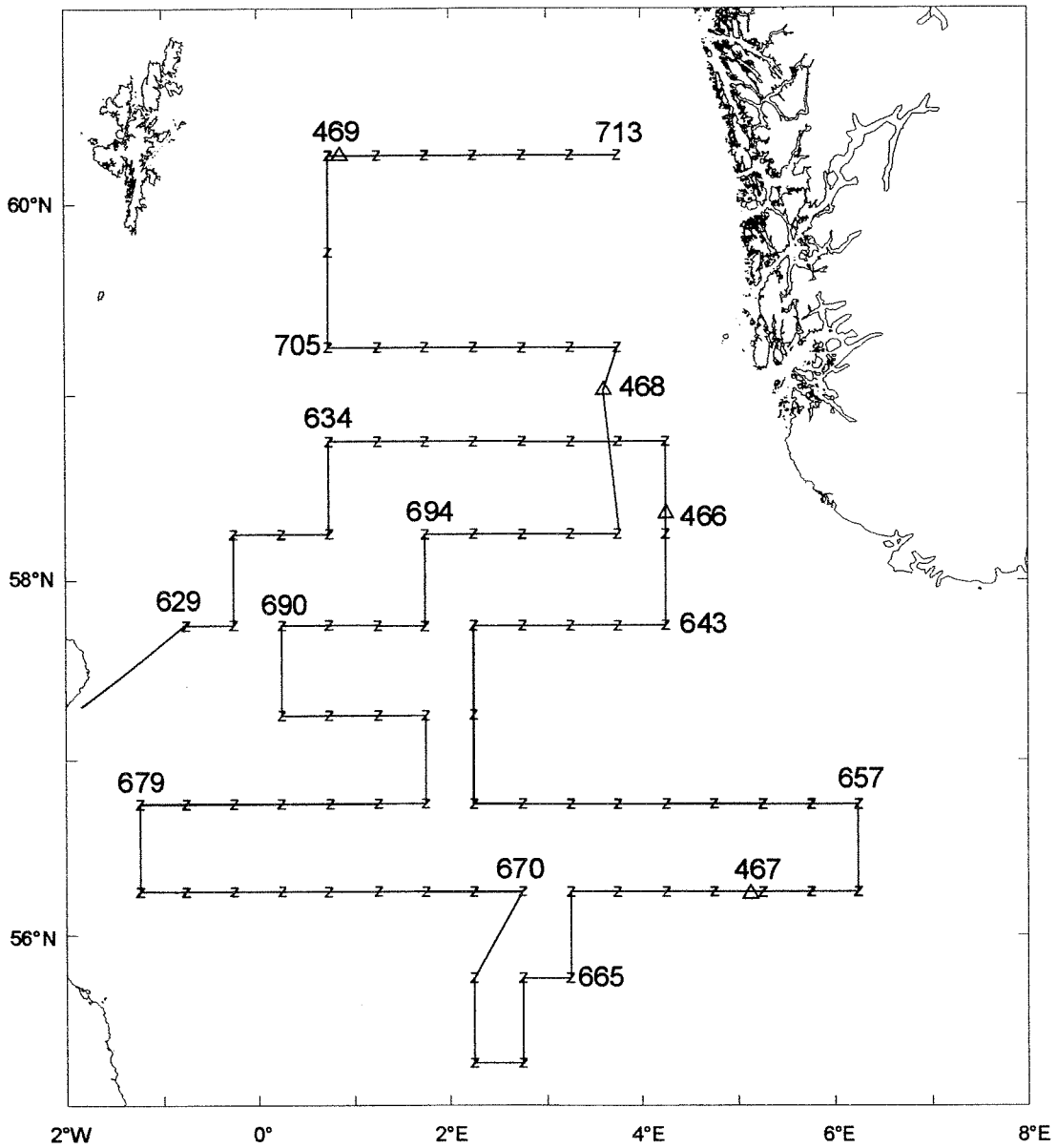
Part II: 9 - 14 June

"G.O. Sars"

z Ctd and plankton st. (20 cm bongo sampler)

z Ctd st.no 583 - 628

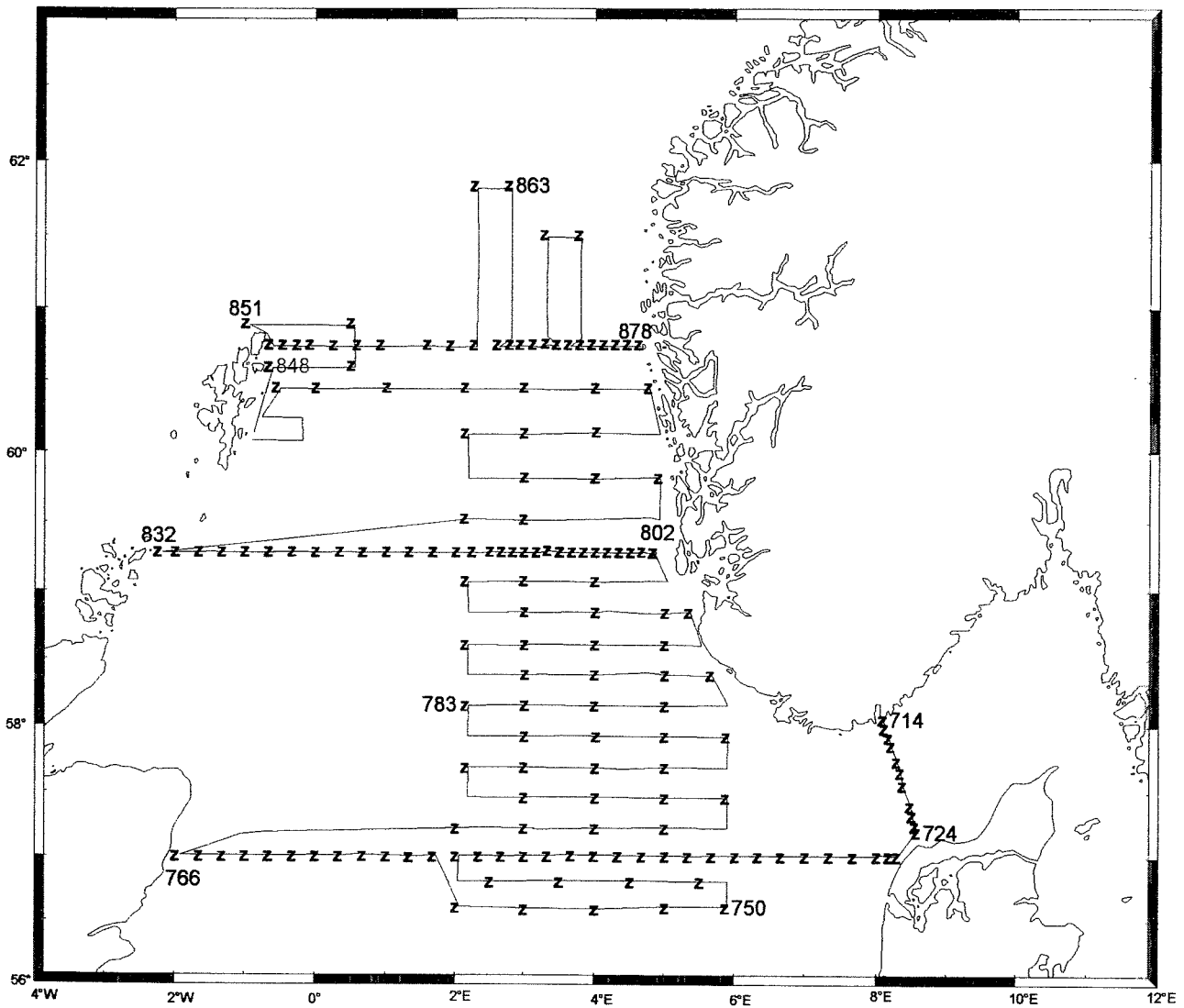
Δ Pelagic trawl st.no 463 - 465



Cruise no 2002008
3 - 24 June 2002

Part III: 15 - 24 June
z Ctd and plankton st. (20 cm bongo sampler)
z Ctd st.no 629 - 713
△ Pelagic trawl st.no 466 - 469

"G.O. Sars"



27 June - 20 July 2002
Cruise no 2002009

z CTD st.no 714 - 878

" G.O.Sars "

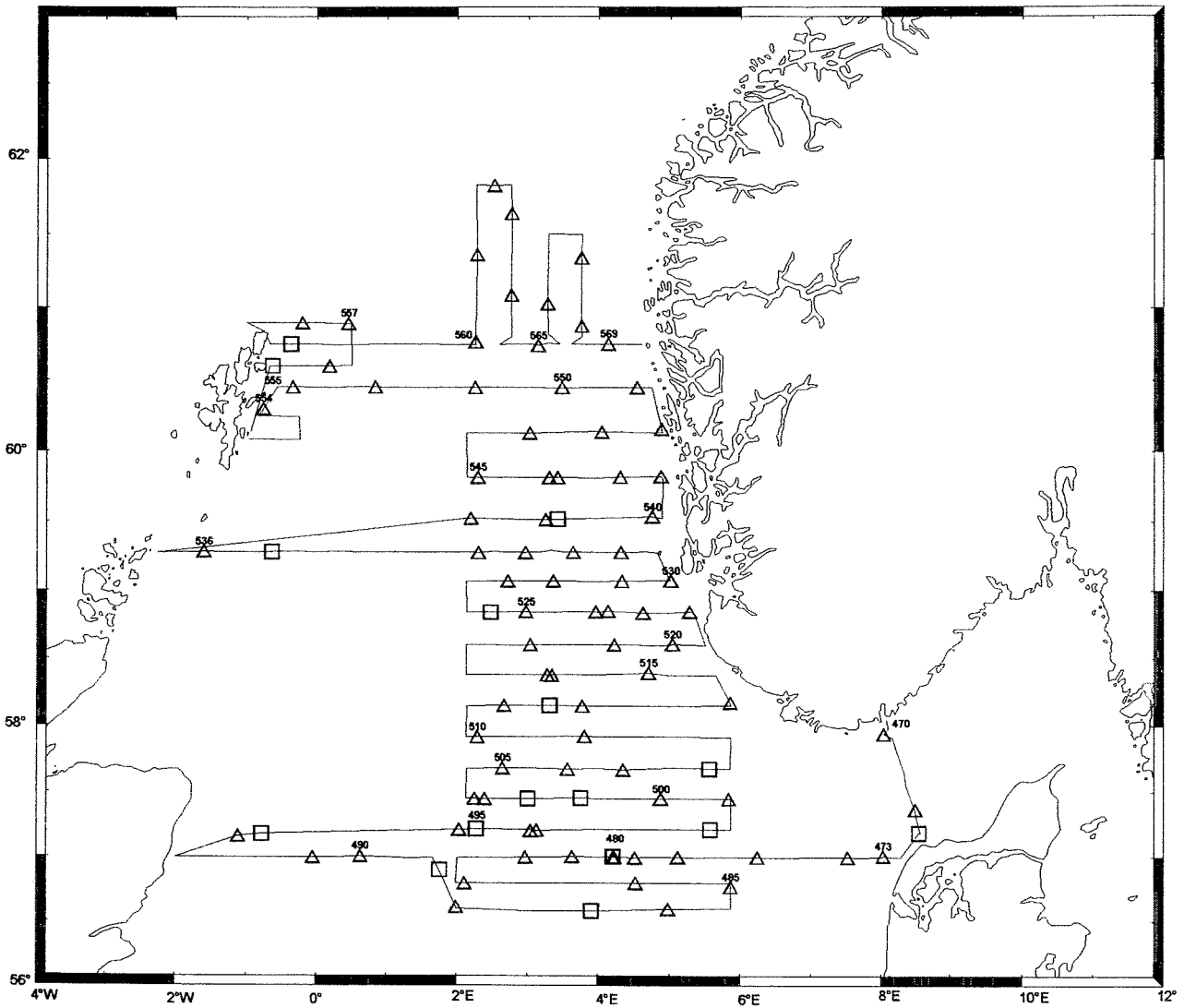
Standard sections:

Oksø -Hanstholm st.no 714-724

Hanstholm-Aberdeen st.no 725-745 and 755-766

Utsira Start Point st.no 802-832

Feie Shetland st.no 852-878

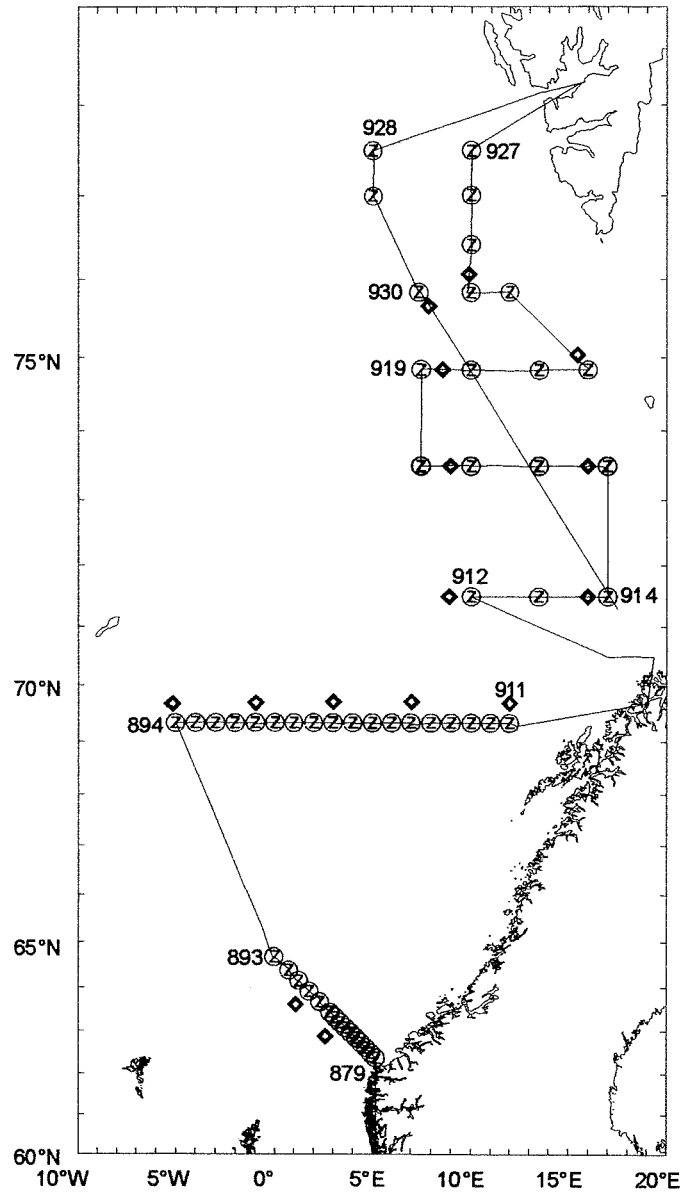


27 June - 20 July 2002
 Cruise no 2002009

Trawl st.no 470-569

" G.O.Sars"

- △ Pelagic trawl
- Bottom trawl



27 July - 15 August 2002

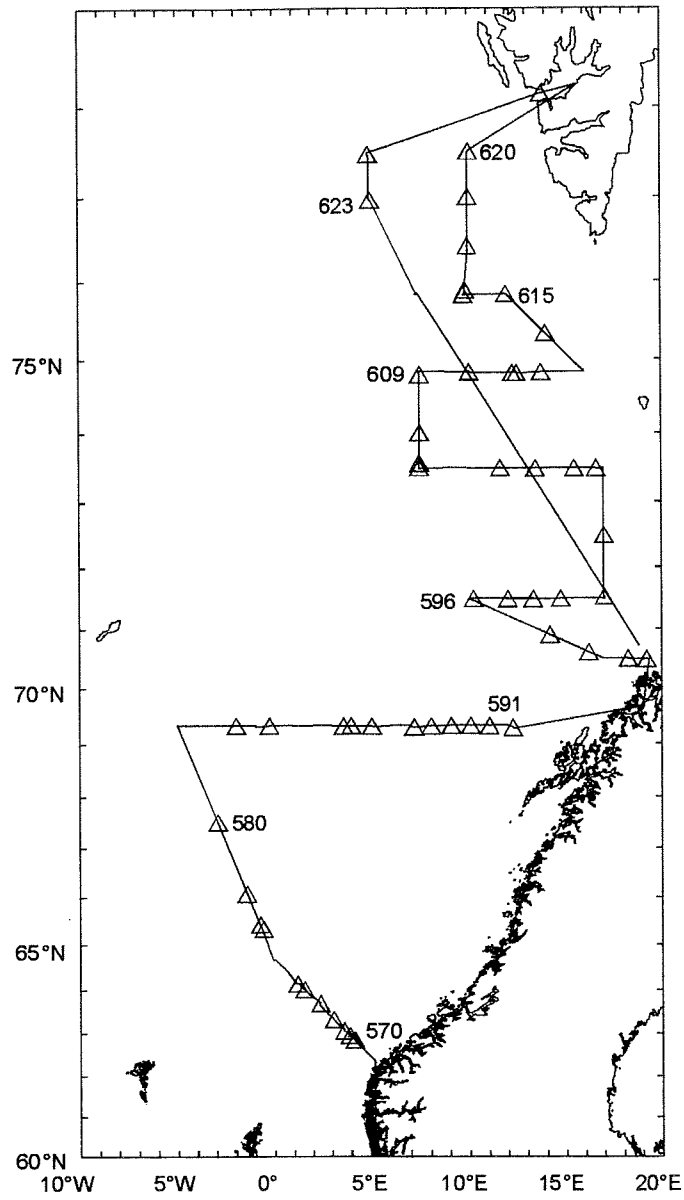
Cruise no 2002010

z CTD st.no 879-930 "G.O. Sars"

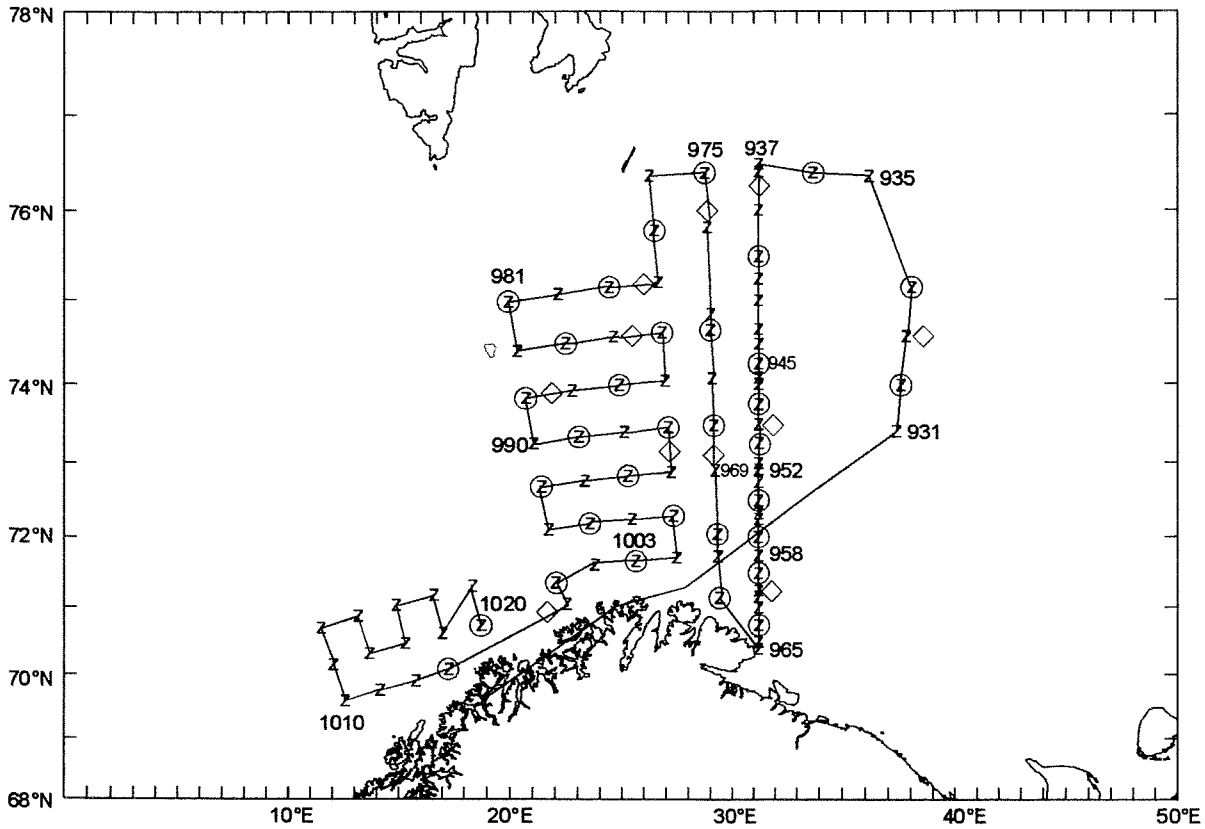
⓪ CTD and plankton st (WP-II-net)

◆ MOCNESS st.

Standard section Svinøy NW: st.no 879-893



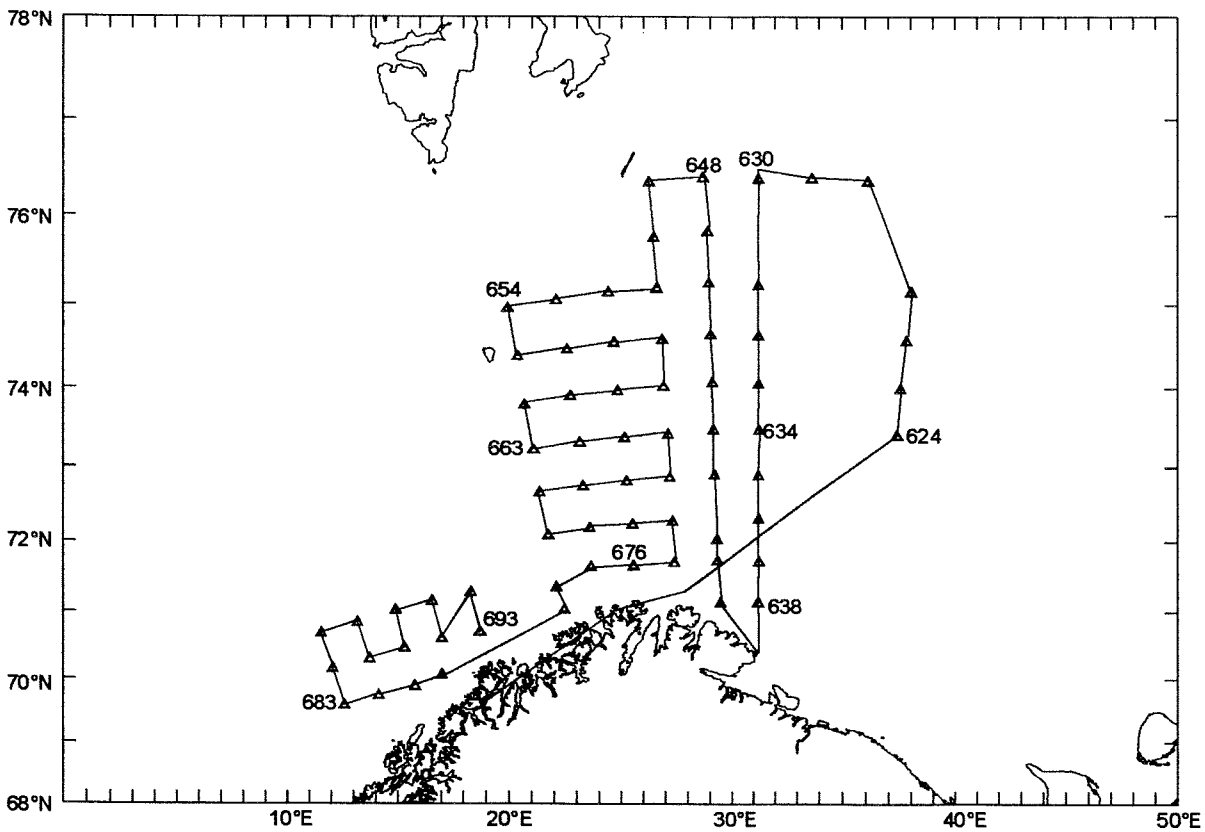
27 July - 15 August 2002 \triangle Pelagic trawl st.no 570-623 "G.O. Sars"
Cruise no 200210



16 August - 7 September 2002
Cruise no 2002011

z CTD st.no 931-1020
 Z CTD and plankton st. (WP-II-Net)
 ◇ MOCNESS st.
 Standard section Vardø N: st.no 937-965

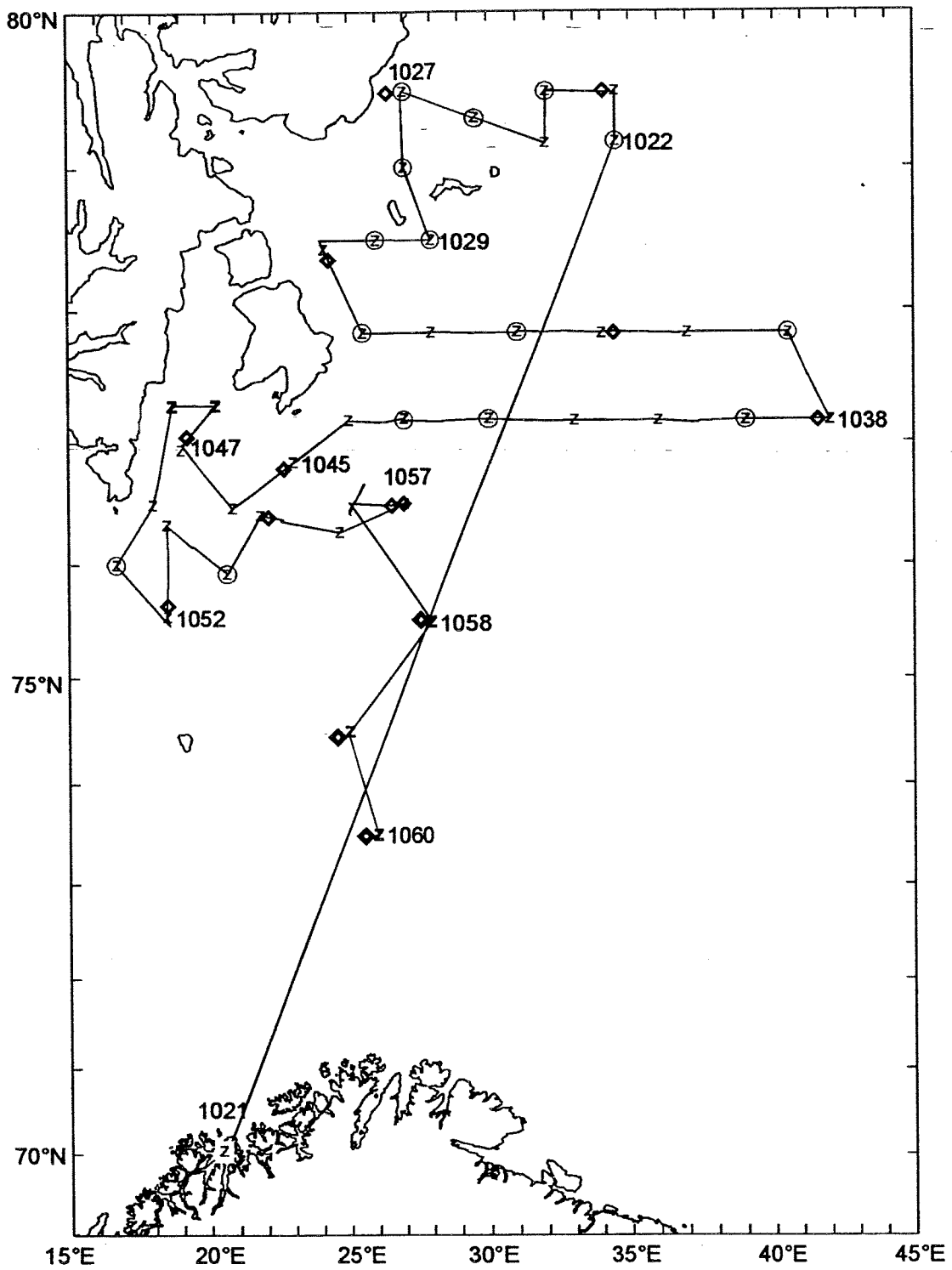
"G.O. Sars"



16 August - 7 September 2002
Cruise no 2002011

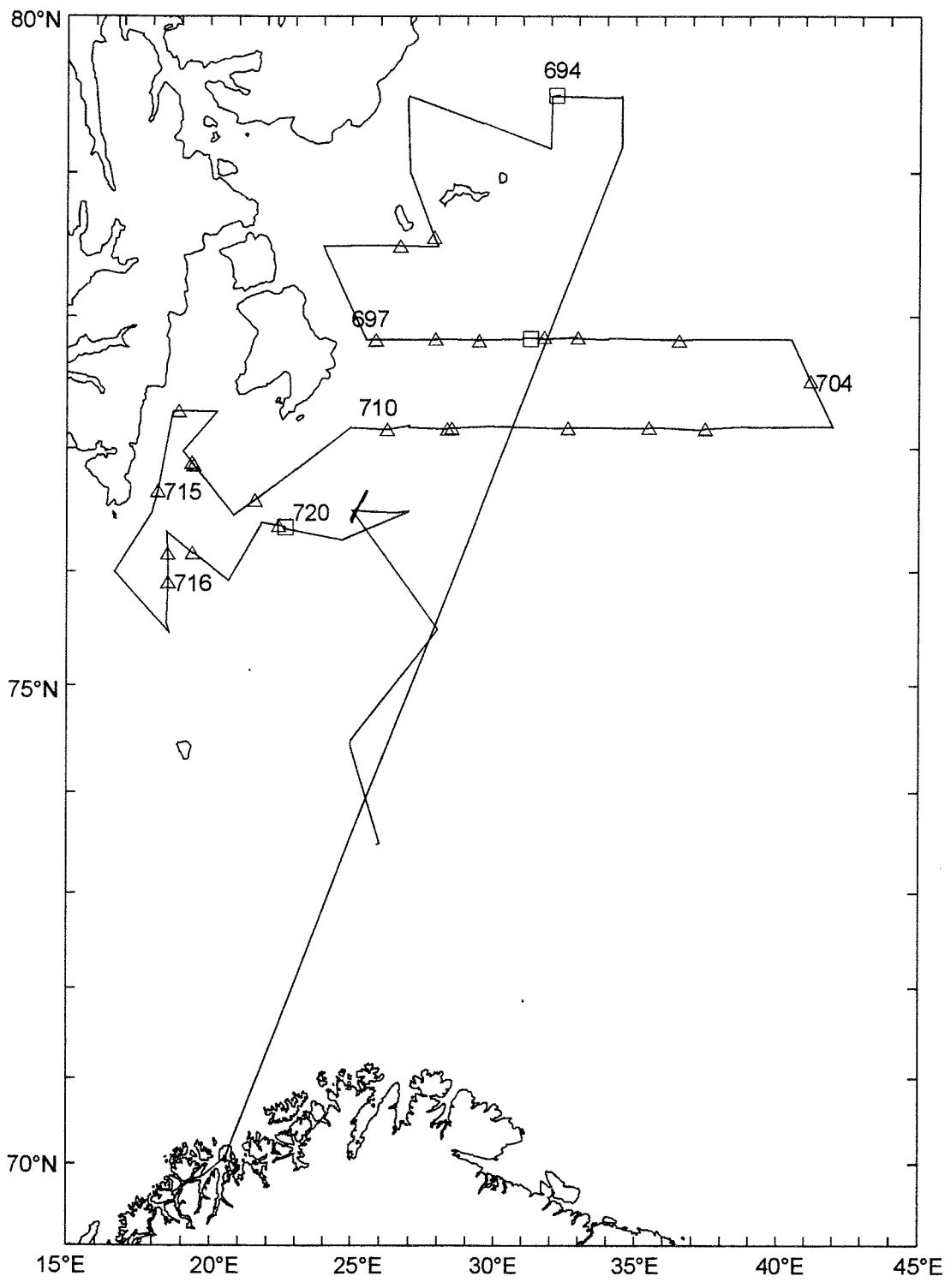
▲ Trawl st.no 624 - 693

"G.O. Sars"



9 - 23 September 2002
 Cruise no 2002012

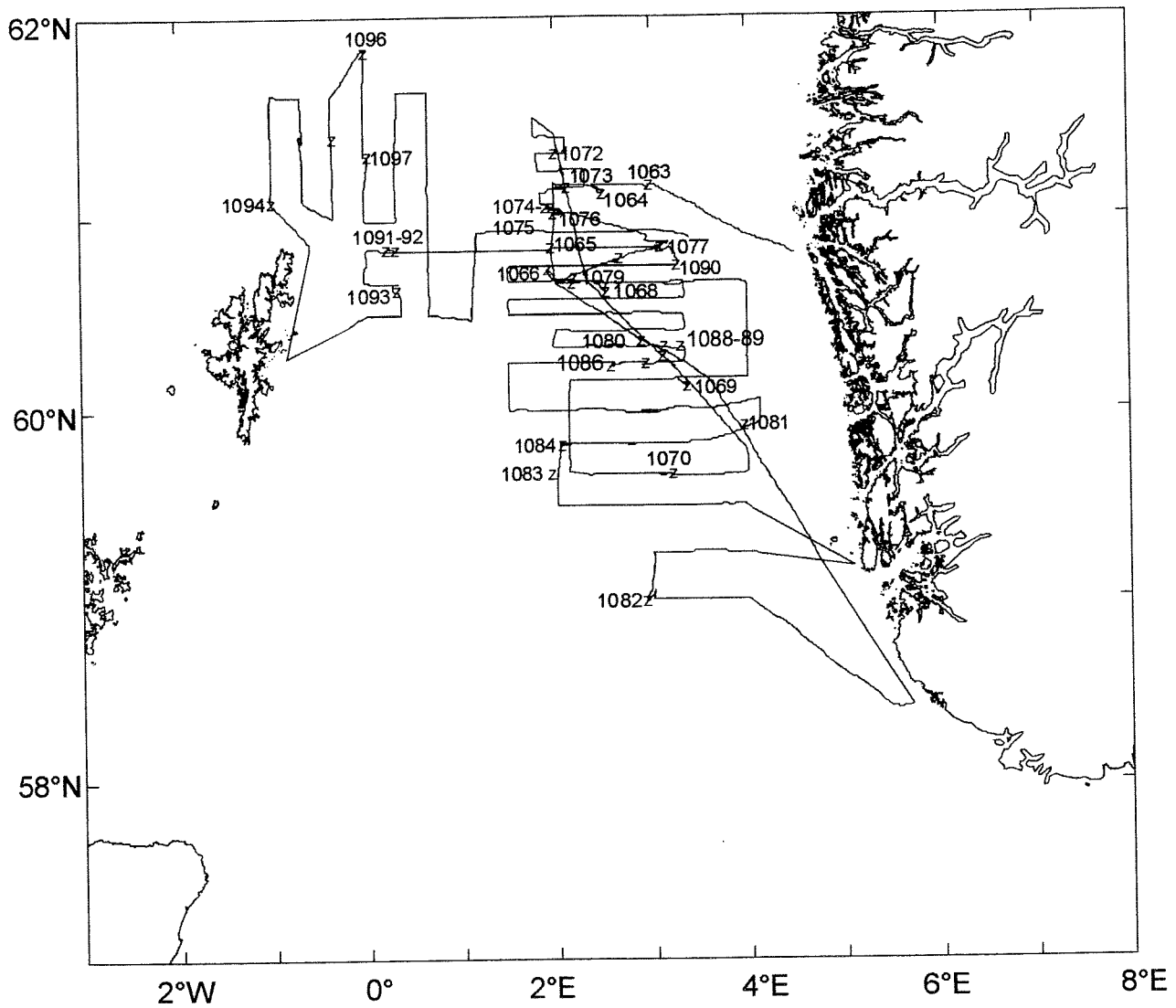
z CTD st.no 1021 - 1060 "G.O. Sars"
 ⊗ ctd and plankton st. (WP-II-net)
 ◆ Mocness st.



9 - 23 September 2002
 Cruise no 2002012

Trawl st.no 694-720
 △ Pelagic tr.
 □ Bottom tr.

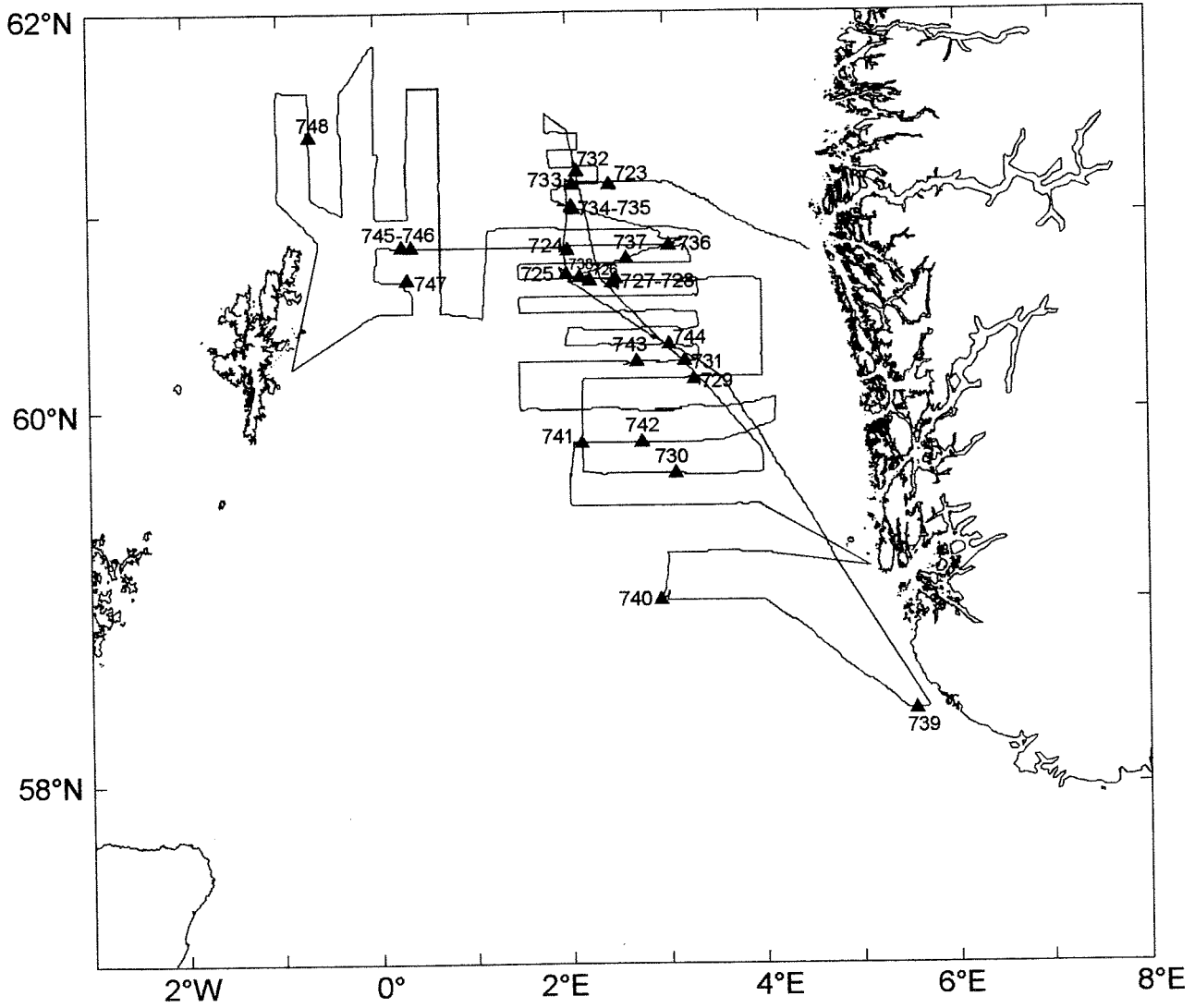
"G.O. Sars"



15 Oct - 3 Nov 2002
 Cruise no 2002015

z CTD st.no 1063 - 1097

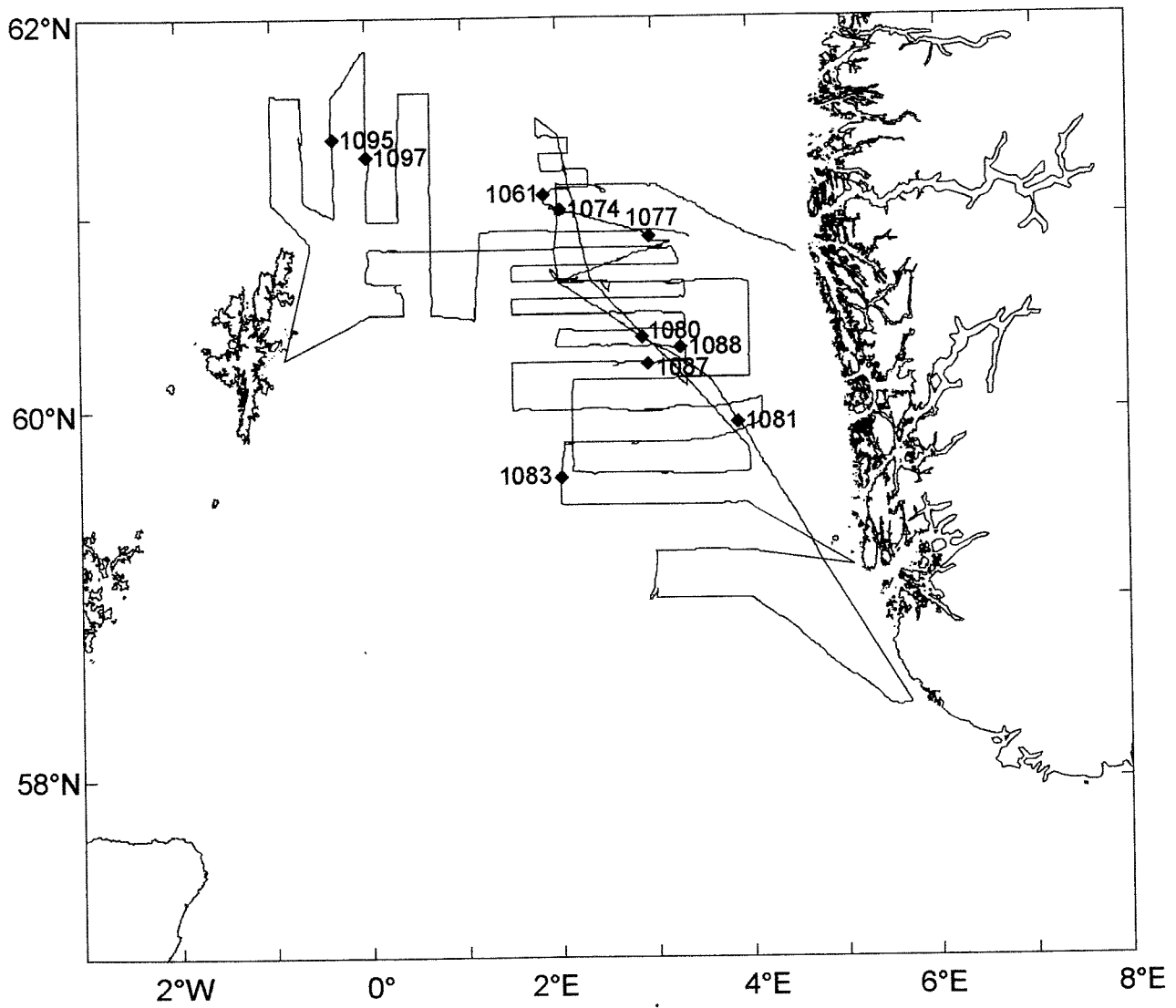
"G. O. Sars"



15 Oct - 3 Nov 2002
 Cruise no 2002015

▲ Pelagic trawl st.no 723 - 748

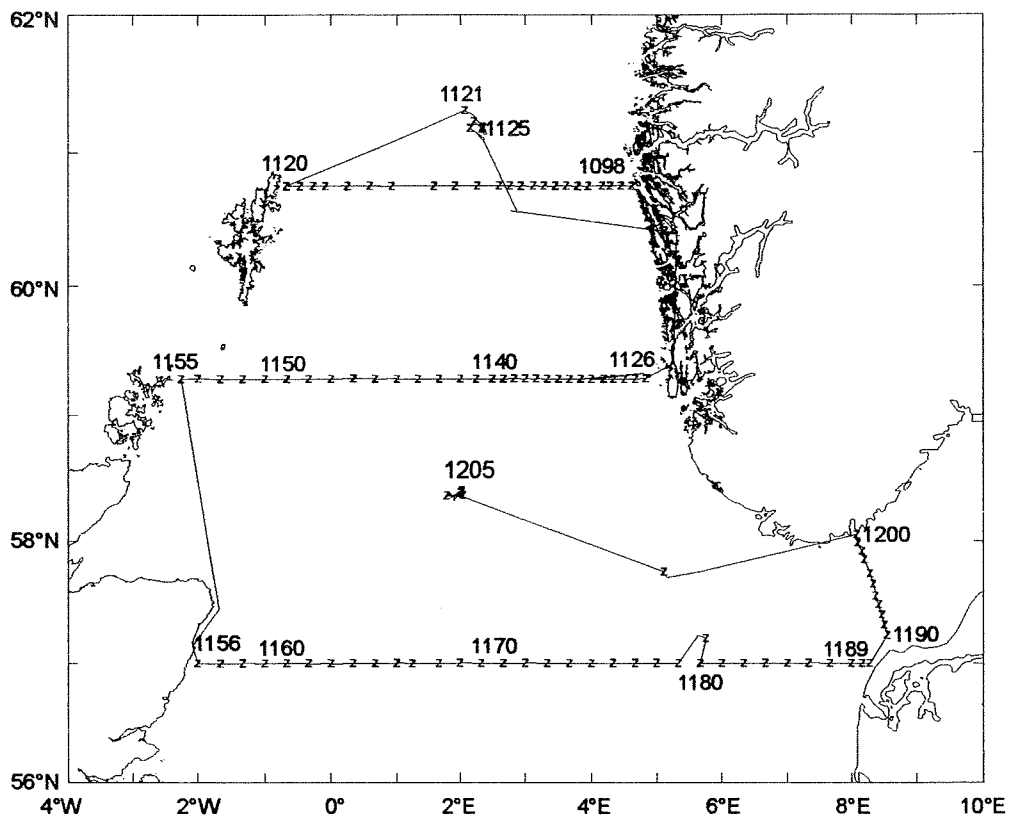
"G. O. Sars"



15 Oct - 3 Nov 2002
Cruise no 2002015

◆ Moiness st.

"G. O. Sars"



6 - 20 November 2002
Cruise no 2002016

z CTD st.no 1098 - 1205

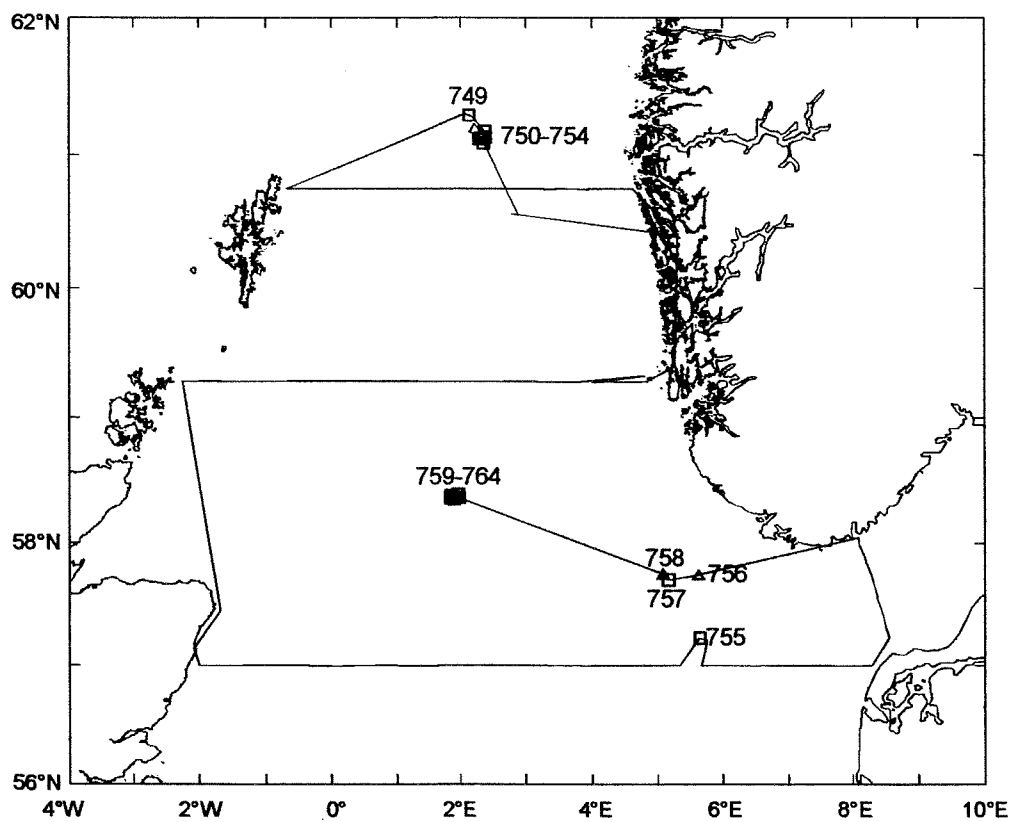
"G. O. Sars"

Standard sections Feie - Shetland st.no 1098-1120

Utsira W st.no 1126-1155

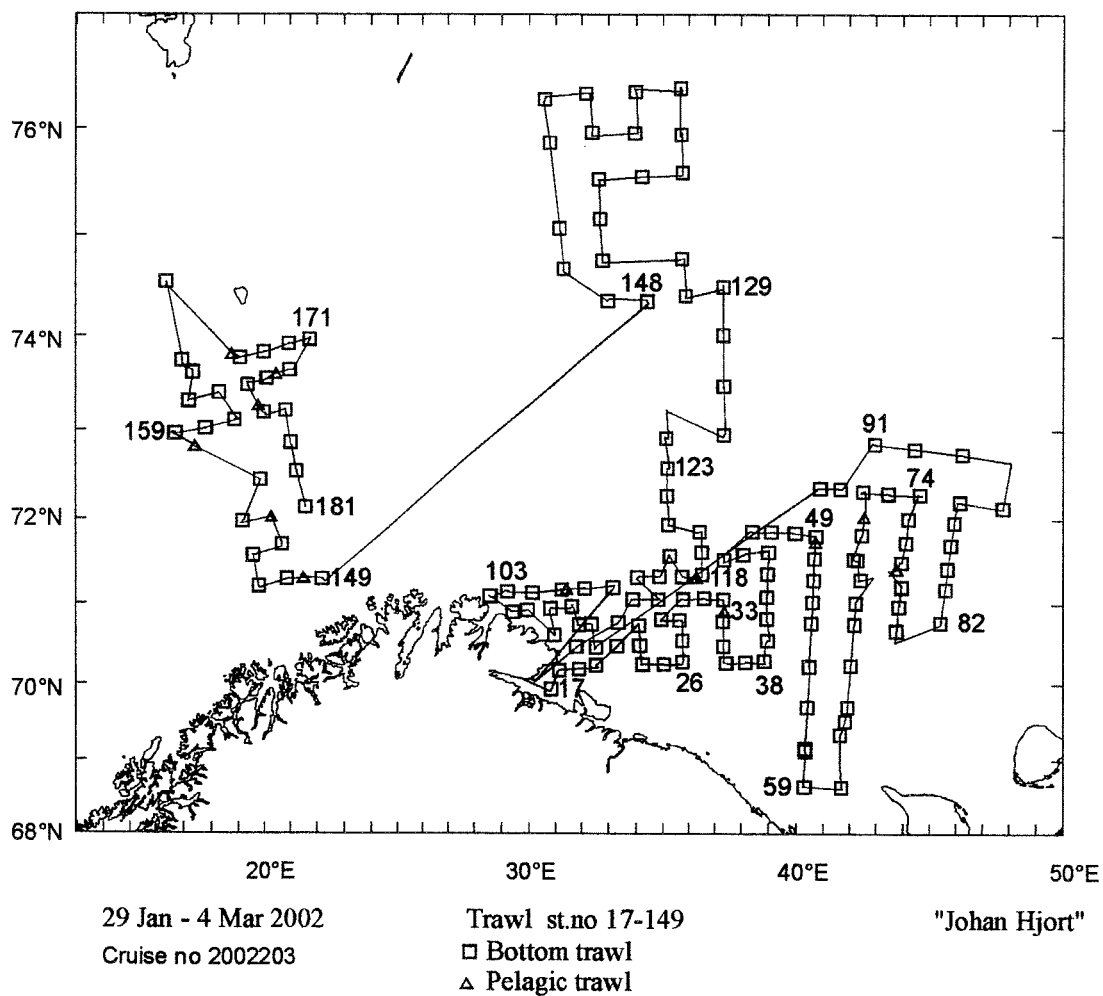
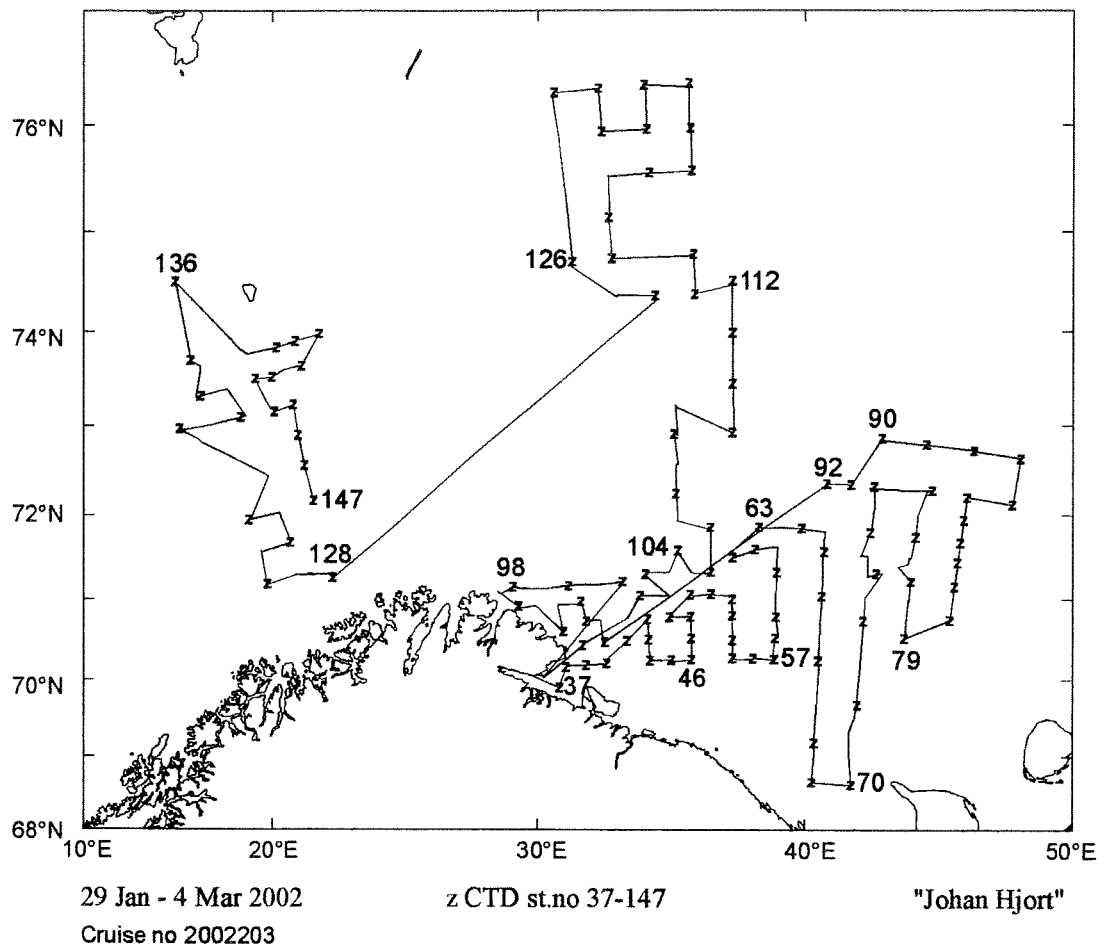
Hanstholm - Aberdeen st.no 1156-1189

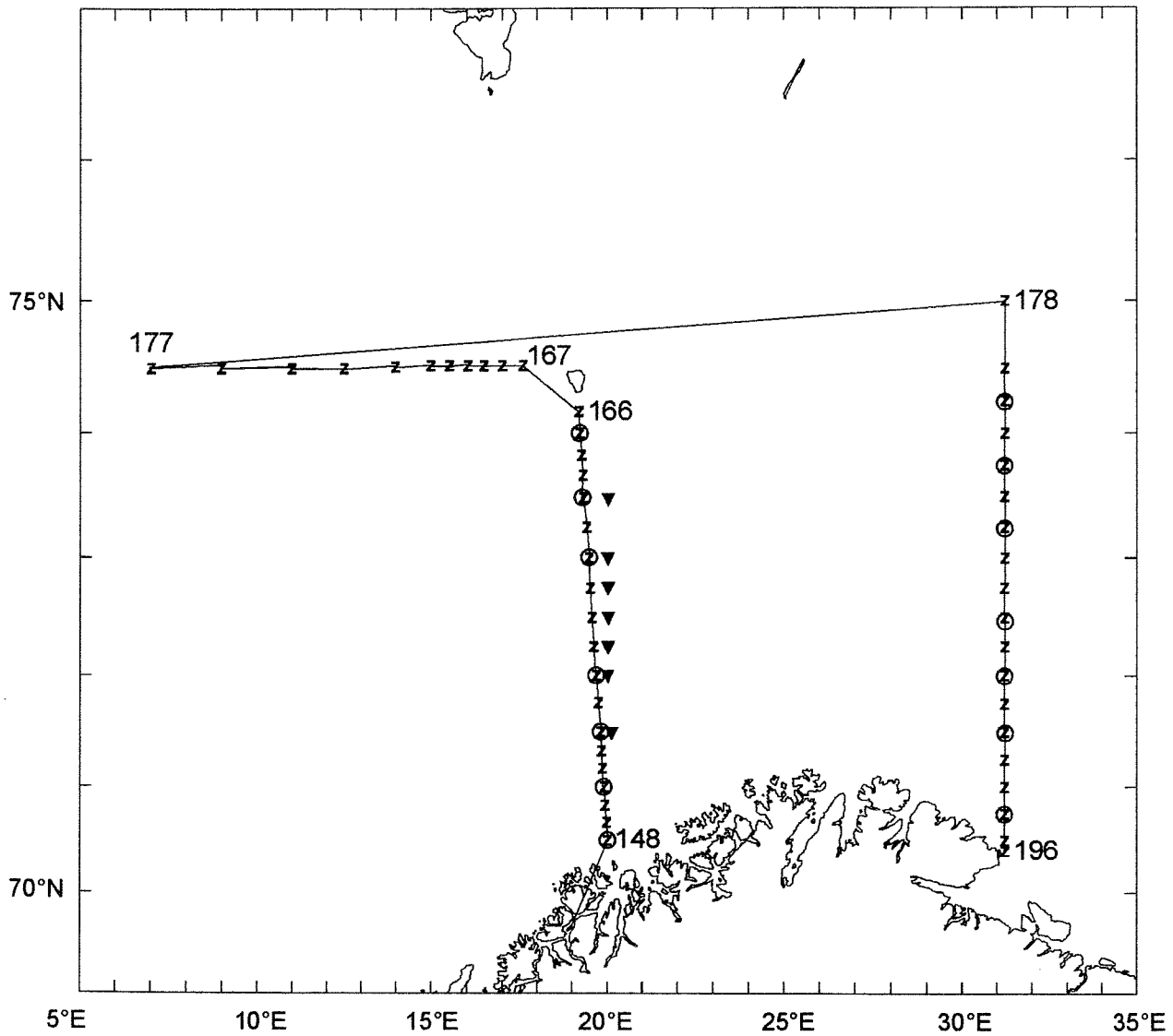
Oksø - Hanstholm st.no 1190-1200



Trawl st.no 749-764

□ Bottom trawl ▲ Pelagic trawl



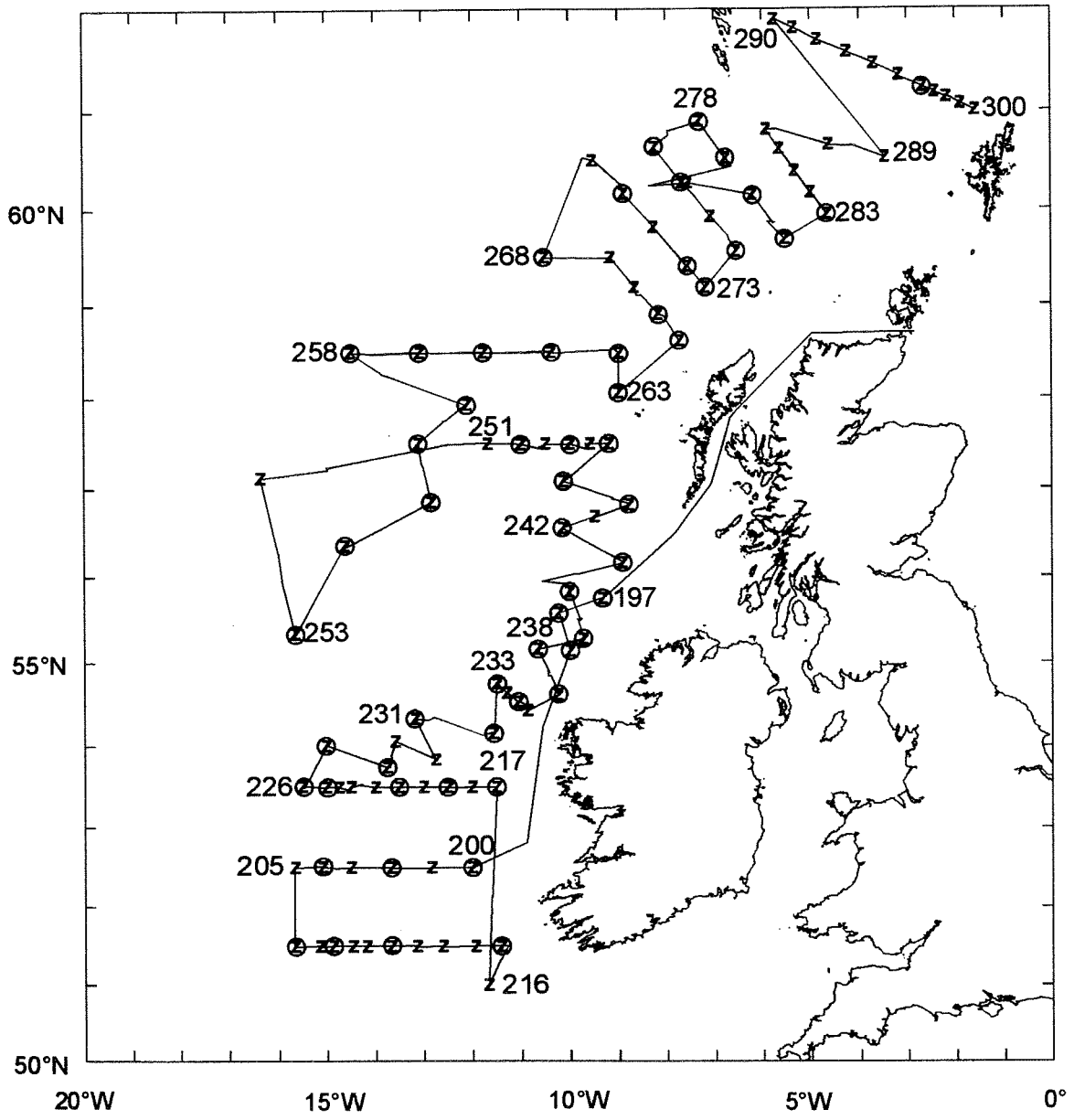


6 - 14 March 2002
 Cruise no 2002204

z CTD st.no 148 -196
 ⊗ CTD and plankton st. (WP-II-net)
 ▼ Deployment and recovery of current moorings

"Johan Hjort"

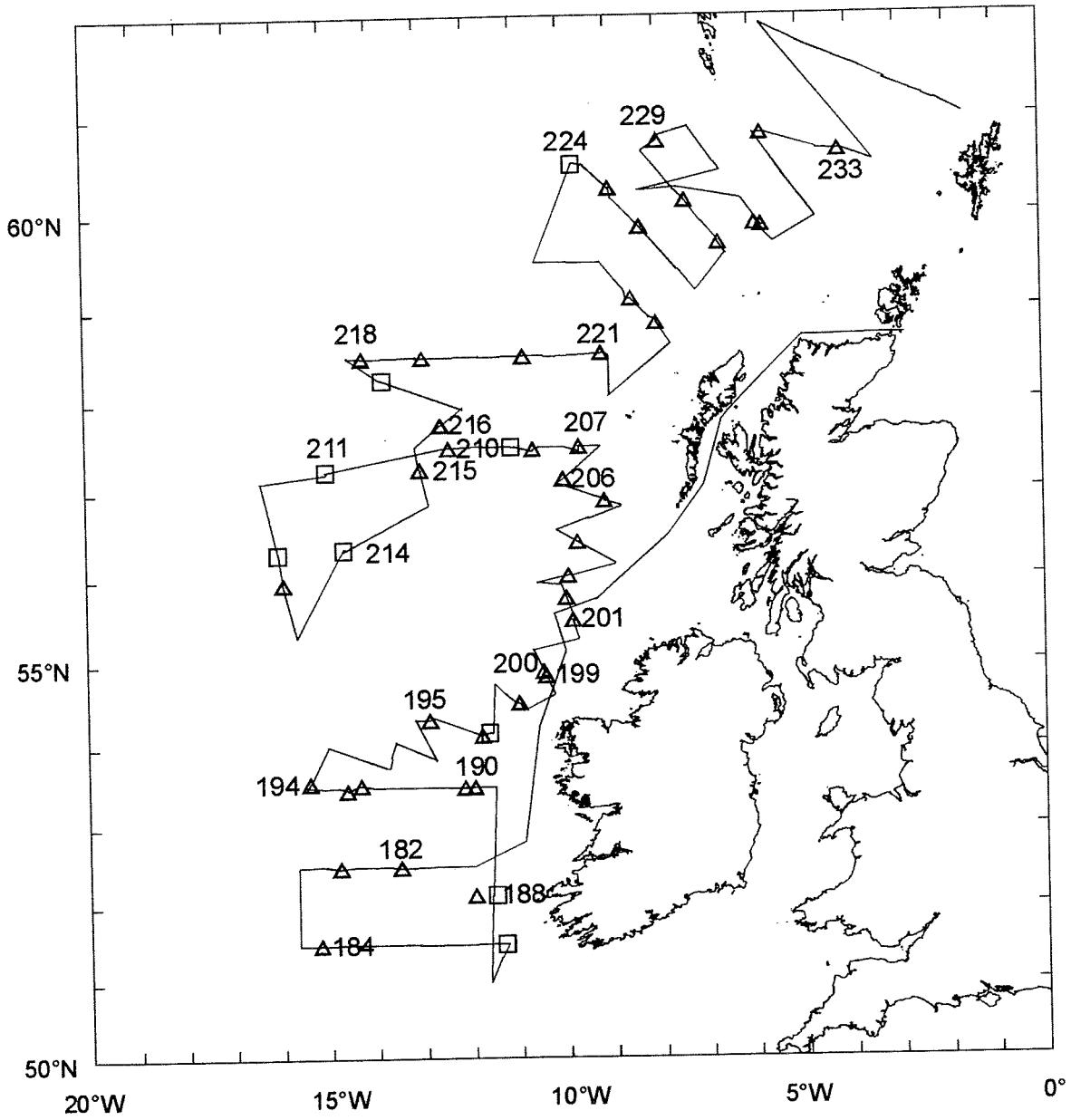
Standard sections: Fugløya - Bjørnøya st.no 148-166
 Bjørnøya W st.no 167-177
 Vardø N st.no 178-196



23 Mar - 25 Apr 2002
 Cruise no 2002205

z CTD st.no 197 - 300
 ⊗ CTD and plankton st. (WP-II-net)

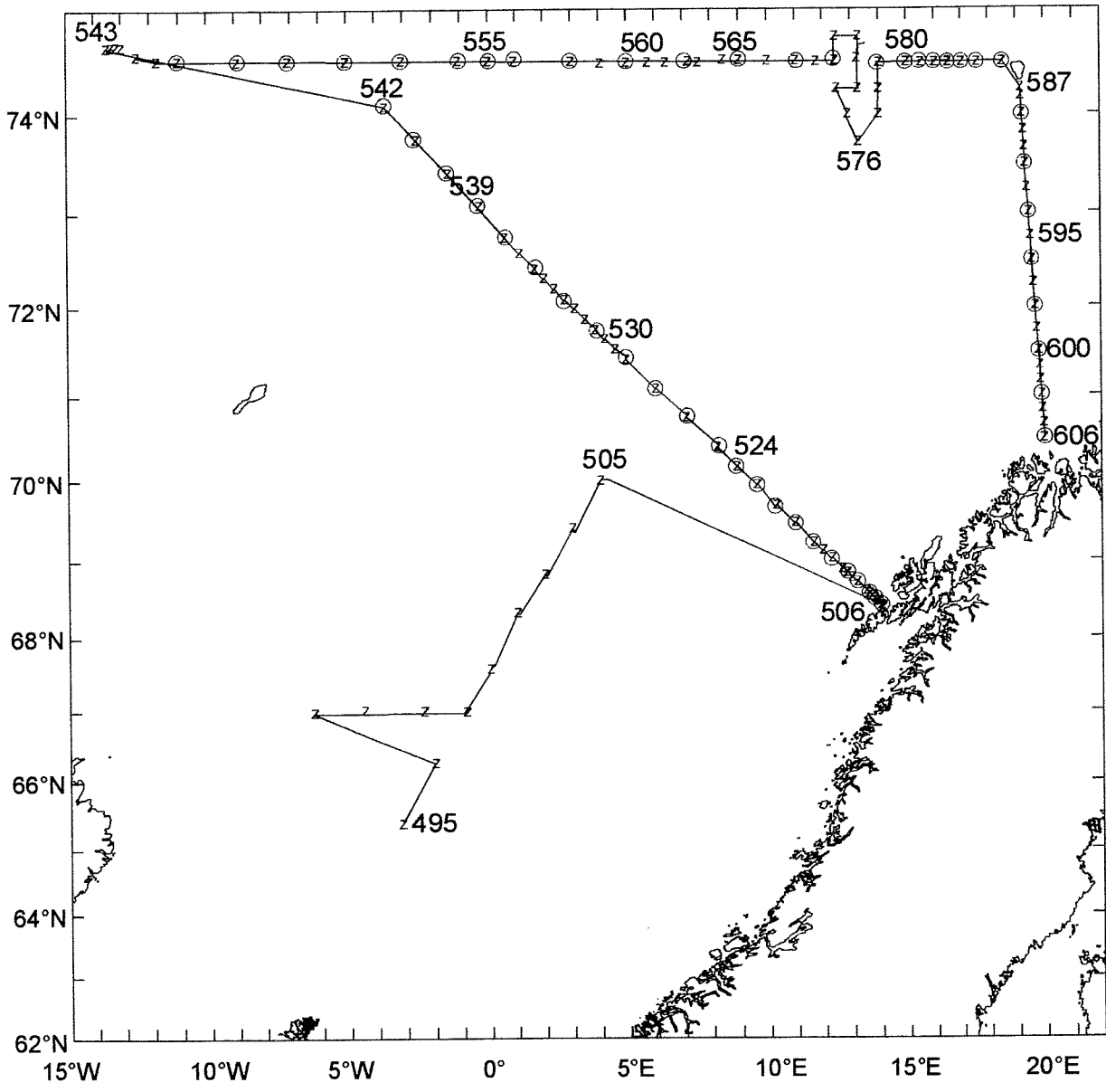
"Johan Hjort"



23 Mar - 25 Apr 2002
 Cruise no 2002205

Trawl st.no 182 - 233
 △ Pelagic trawl
 □ Bottom trawl

"Johan Hjort"



28 May - 18 June 2002

Cruise no 2002209

z CTD st.no 495 - 606

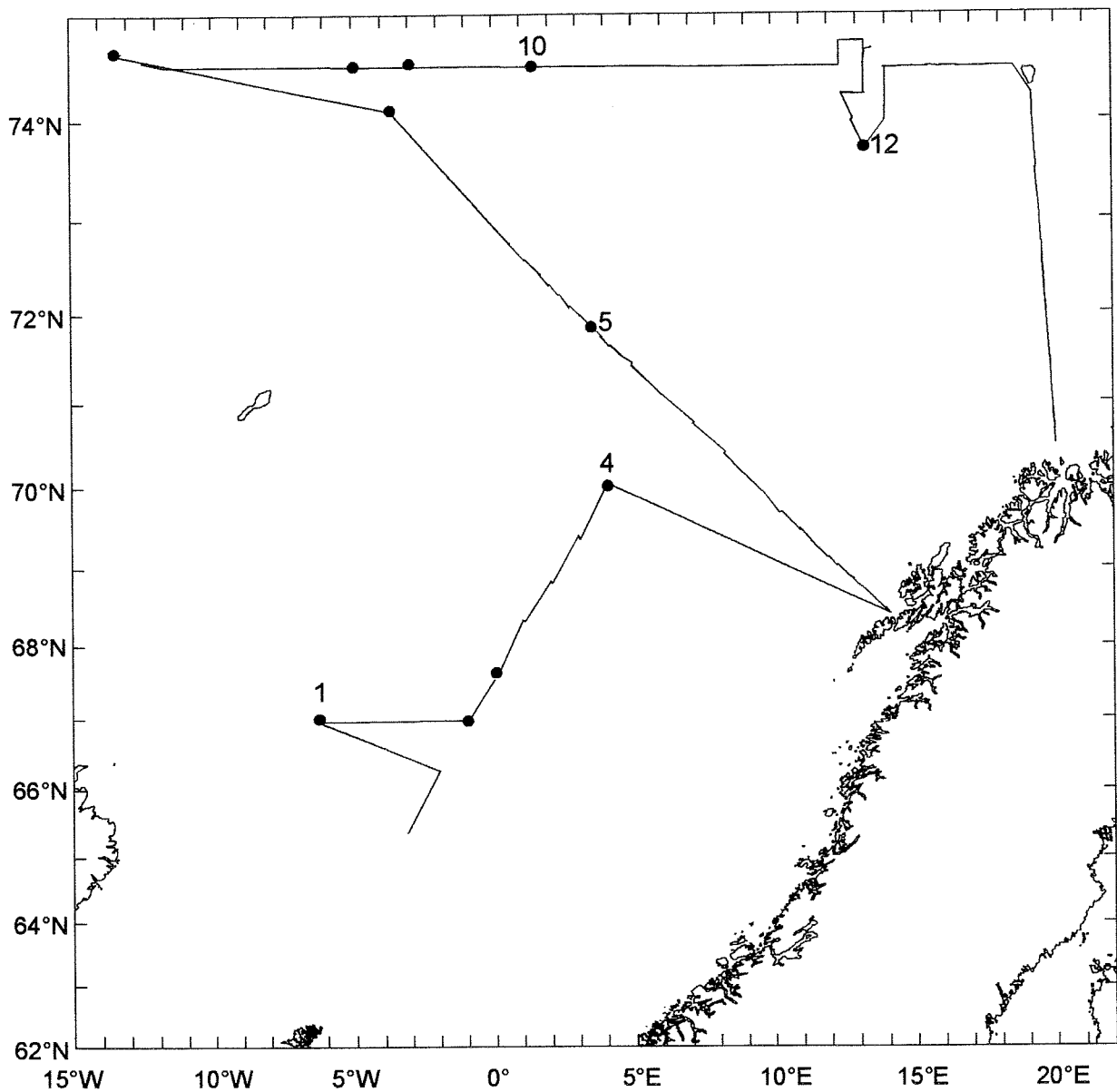
⊗ CTD and plankton st. (WP-II-net)

"Johan Hjort"

Standard section Gimsøy NW: st.no 506-524

Fugløya - Bjørnøya: st.no 587-606

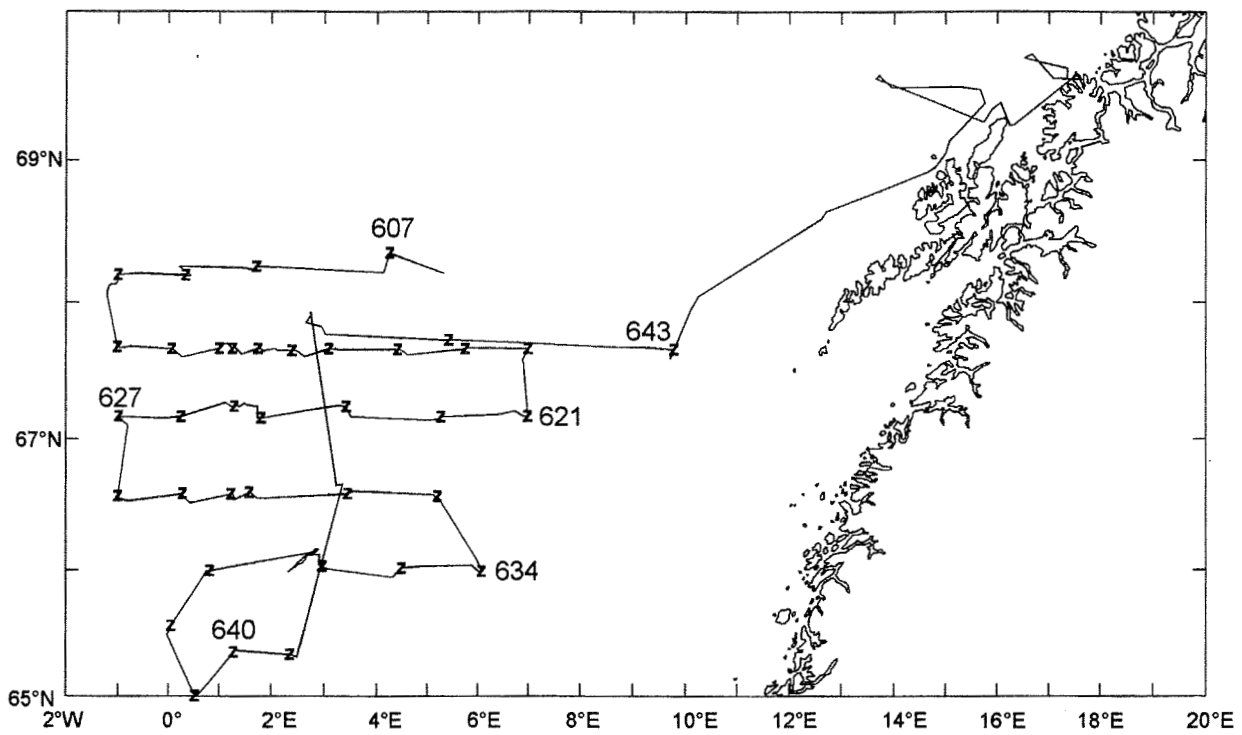
Bjørnøya W: 555-562,579-586



28 May - 18 June 2002
Cruise no 2002209

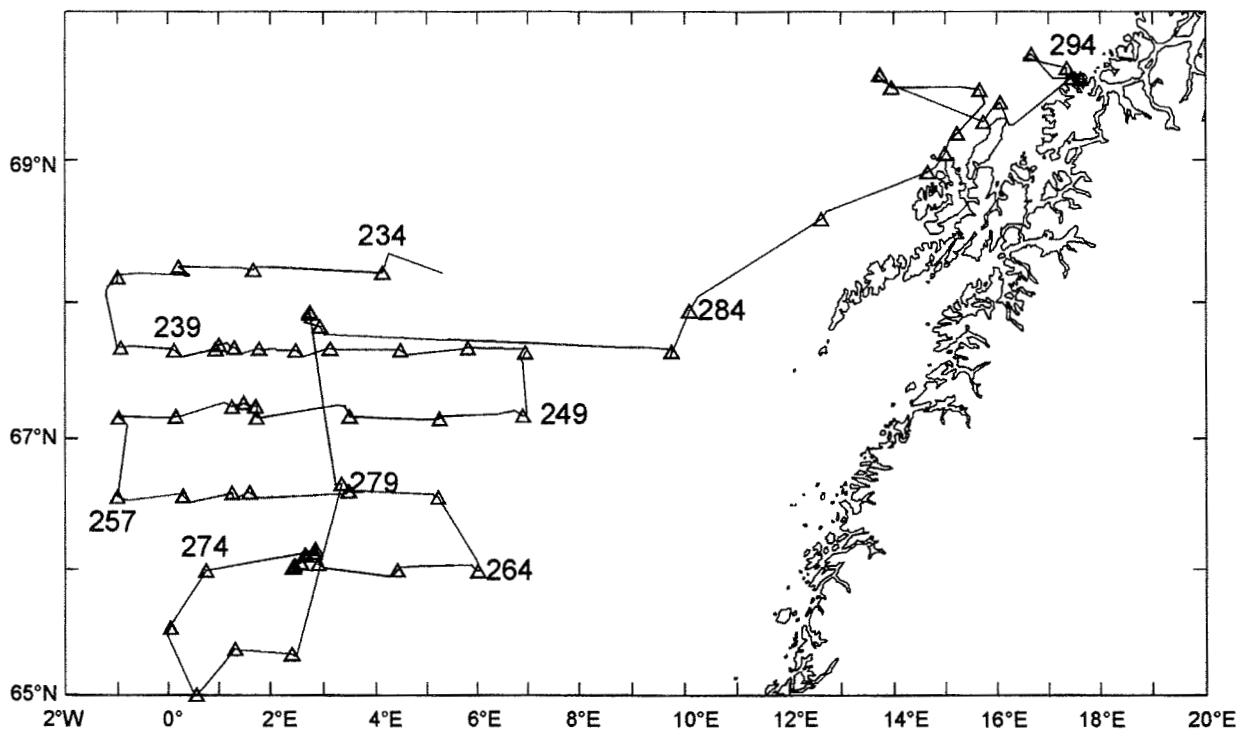
● Grab stations

"Johan Hjort"



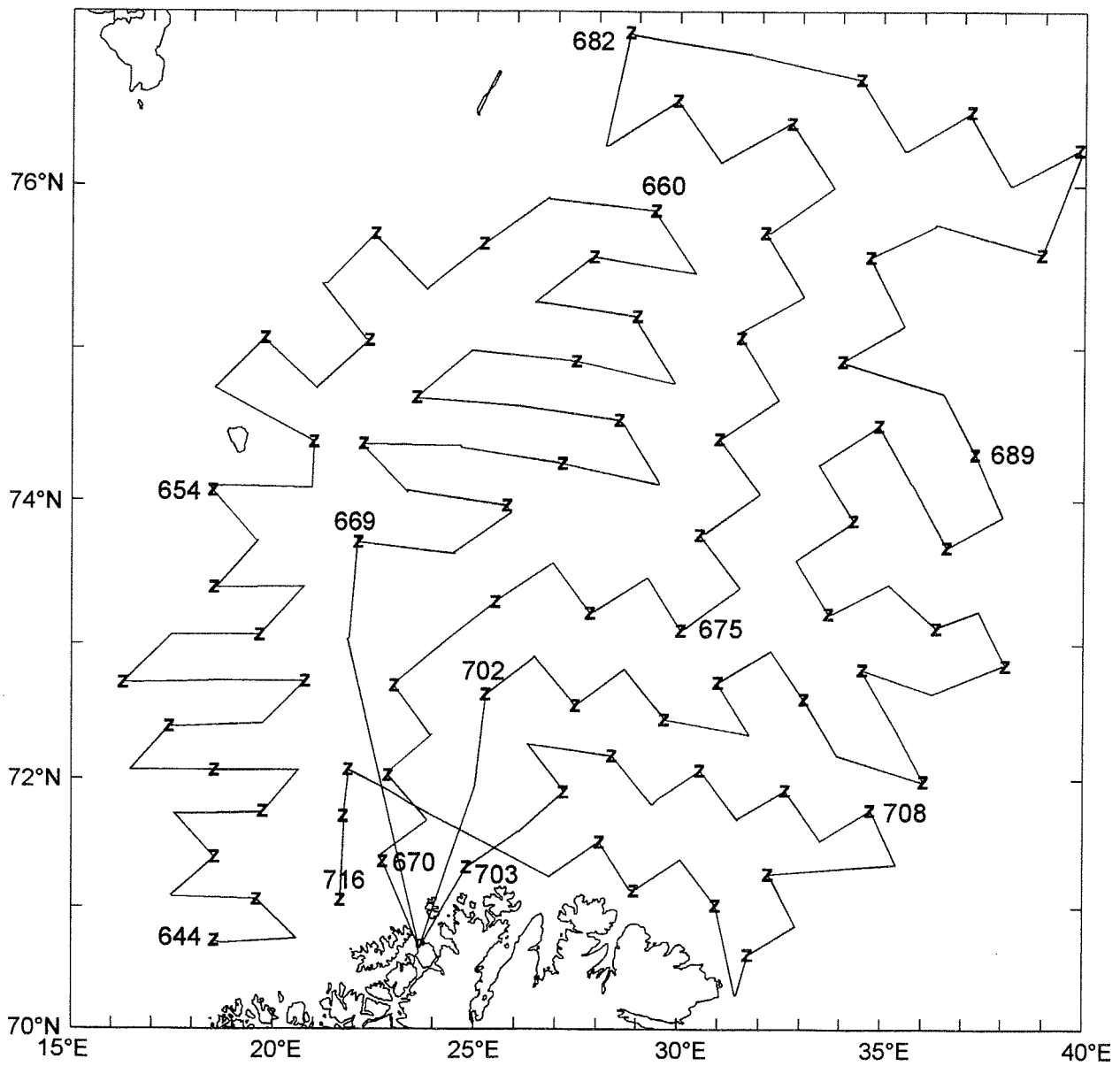
20 June - 6 July 2002 z CTD st.no 607 - 643
Cruise no 2002210

"Johan Hjort"



20 June - 6 July 2002 Δ Pelagic trawl st.no 234 - 294
Cruise no 2002210

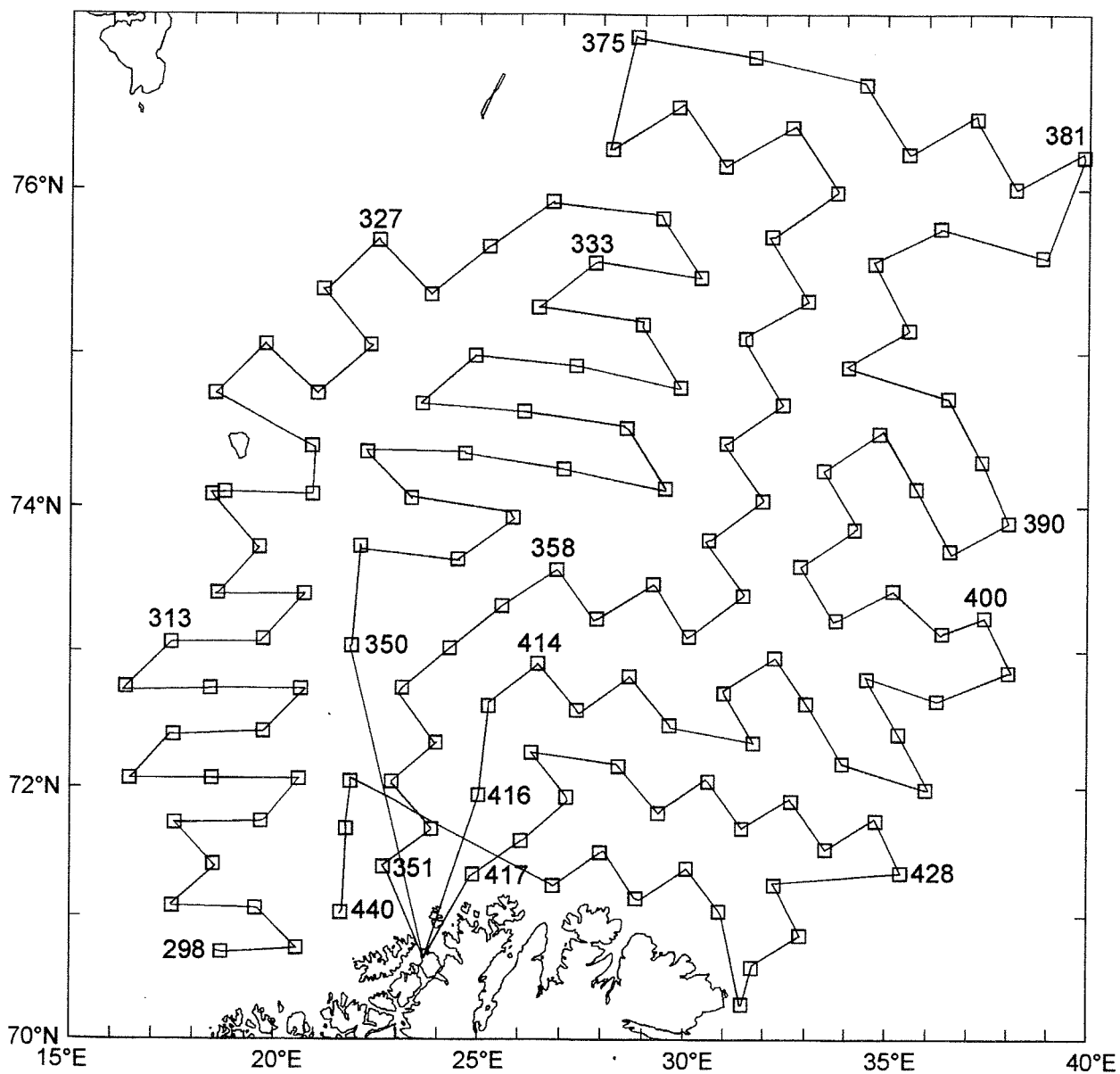
"Johan Hjort"



20 July - 19 August 2002
Cruise no 2002211

z CTD st.no 644 - 716

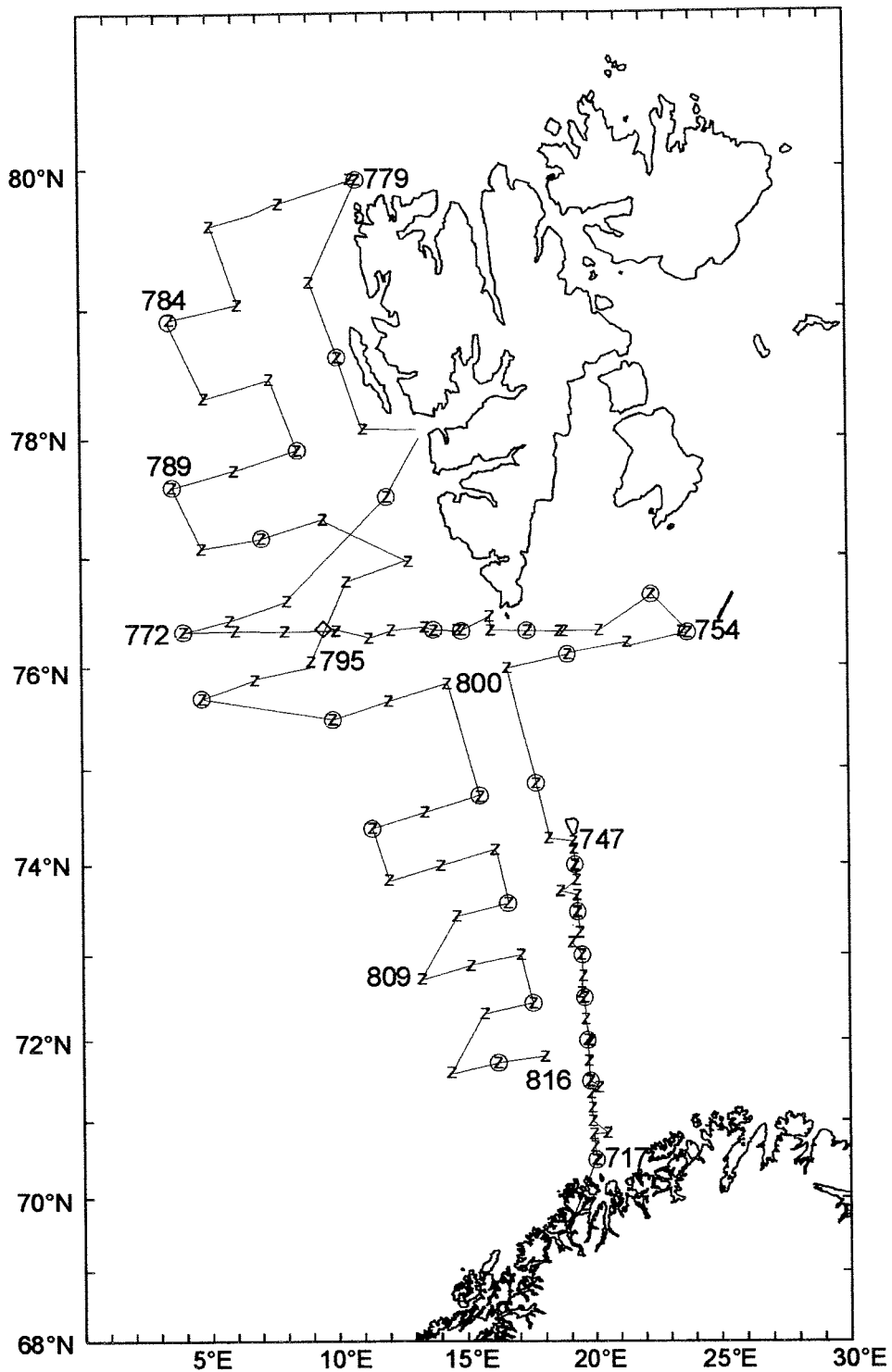
"Johan Hjort"



20 July - 19 August 2002
 Cruise no 2002211

□ Bottom trawl st.no 298 - 440

"Johan Hjort"



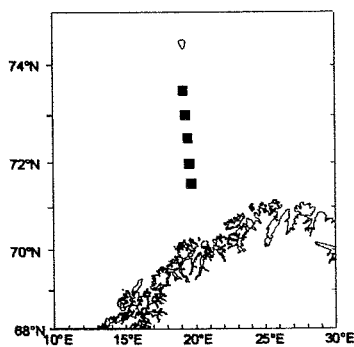
23 Aug - 8 Sep 2002
Cruise no 2002212

z CTD st.no 717-816

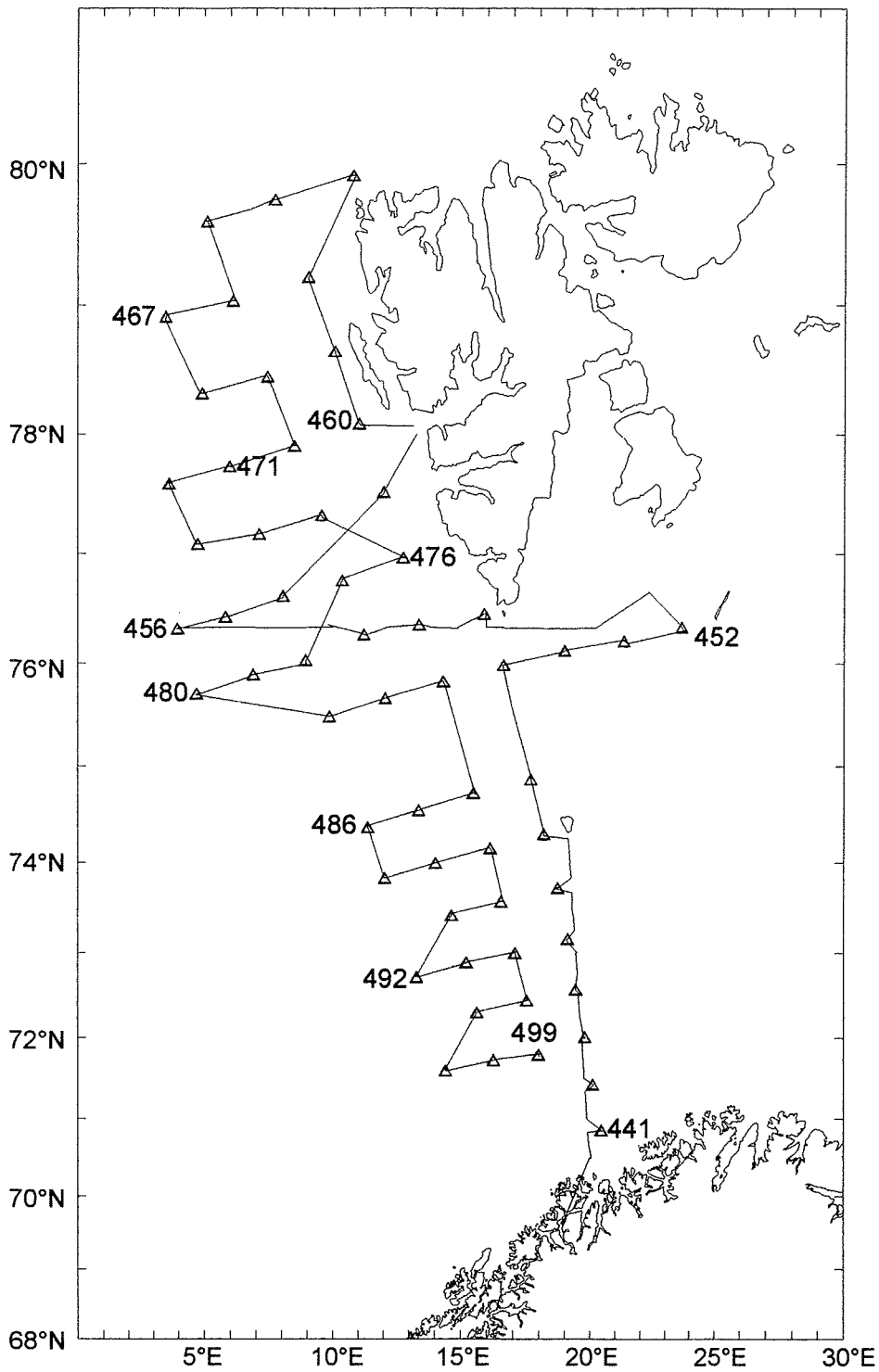
"Johan Hjort"

Standard section Fugløya-Bjørnøya: st.no 717 - 747

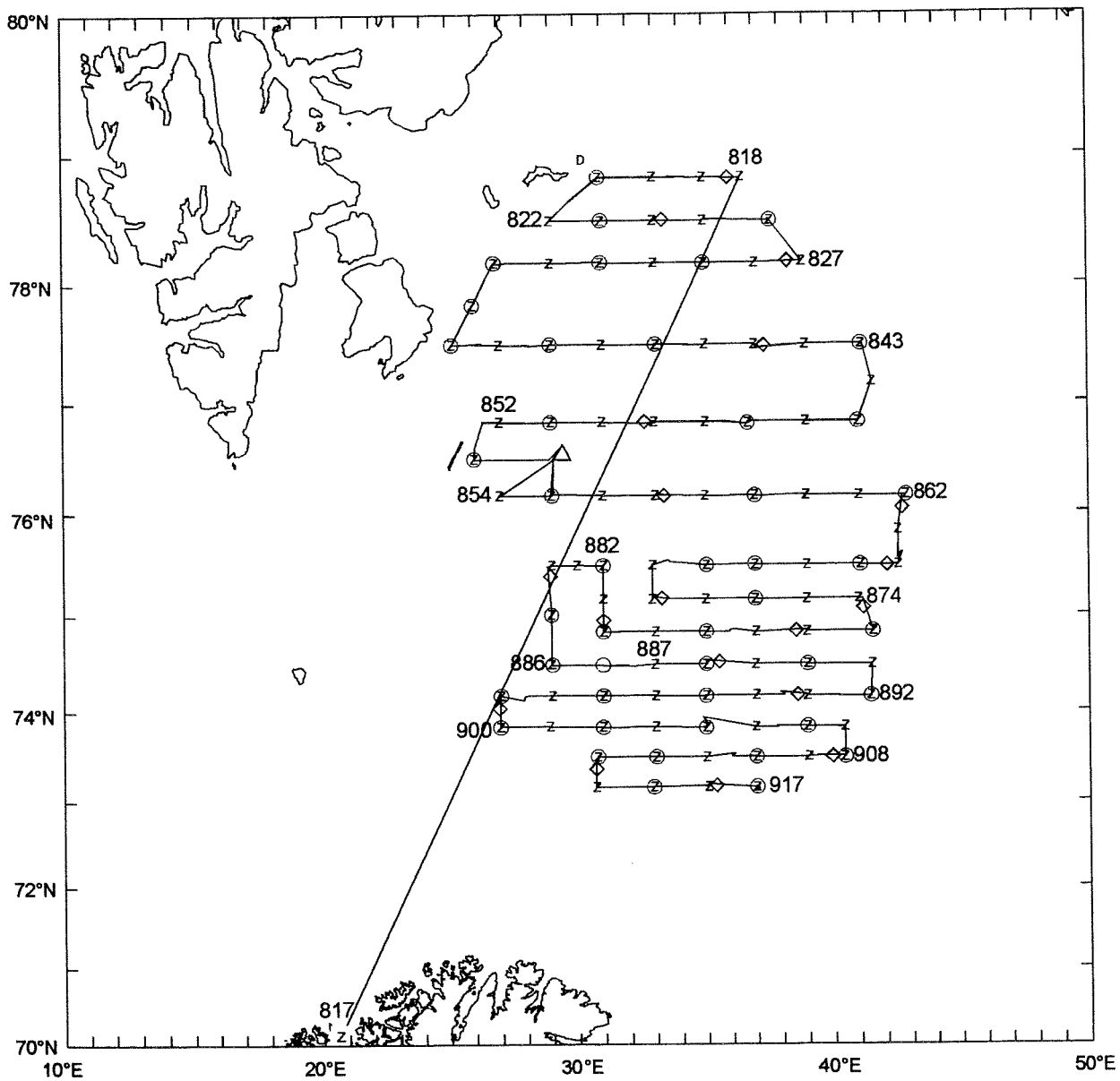
Sørkapp: st.no 754,756-772



■ Recovered and re-deployed moorings



23 Aug - 8 Sep 2002 \triangle Pelagic trawl st.no 441 - 499 "Johan Hjort"
 Cruise no 2002212



9 September - 7 October 2002

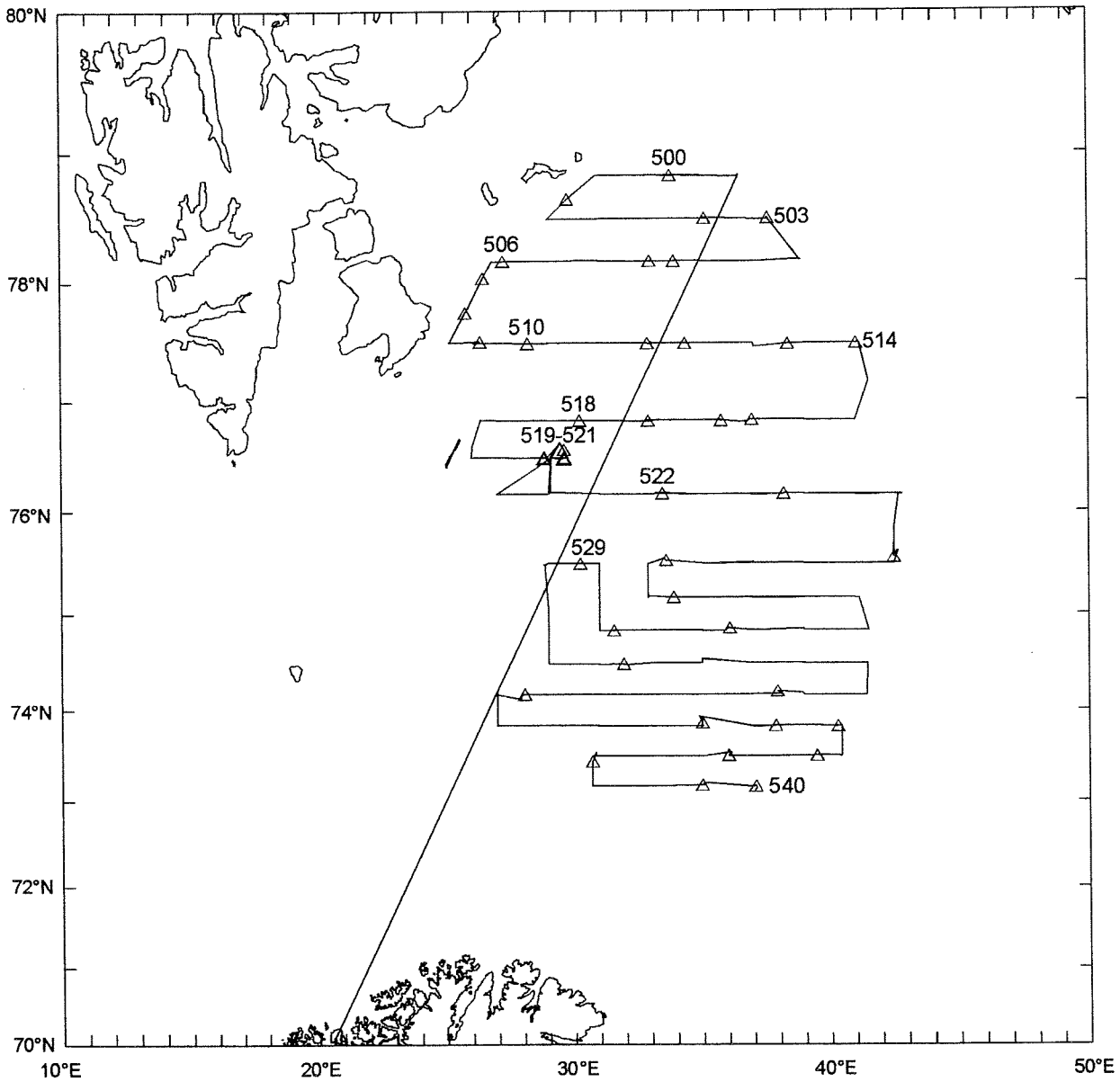
Cruise no 2002213

z CTD st.no 817-917

⓪ CTD and plankton st. (WP-II-net)

◇ Mocness st.

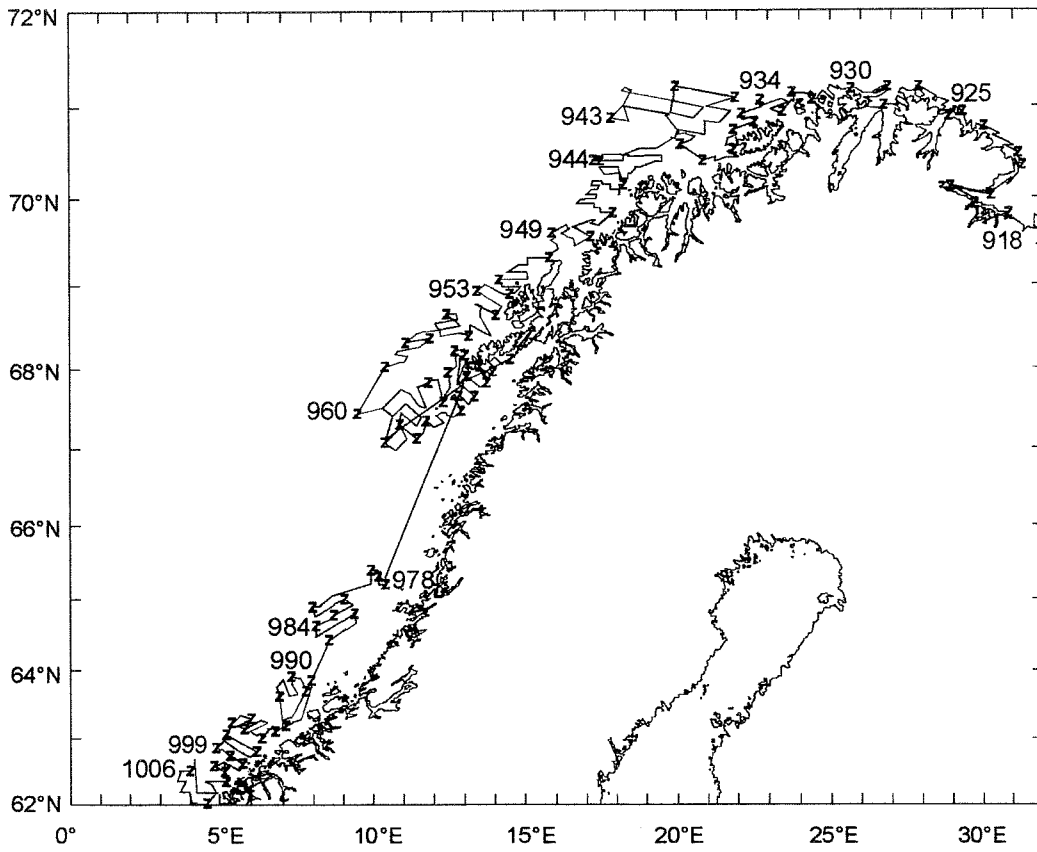
"Johan Hjort"



9 September - 7 October 2002 \triangle Pelagic trawl st.no 500 - 540

"Johan Hjort"

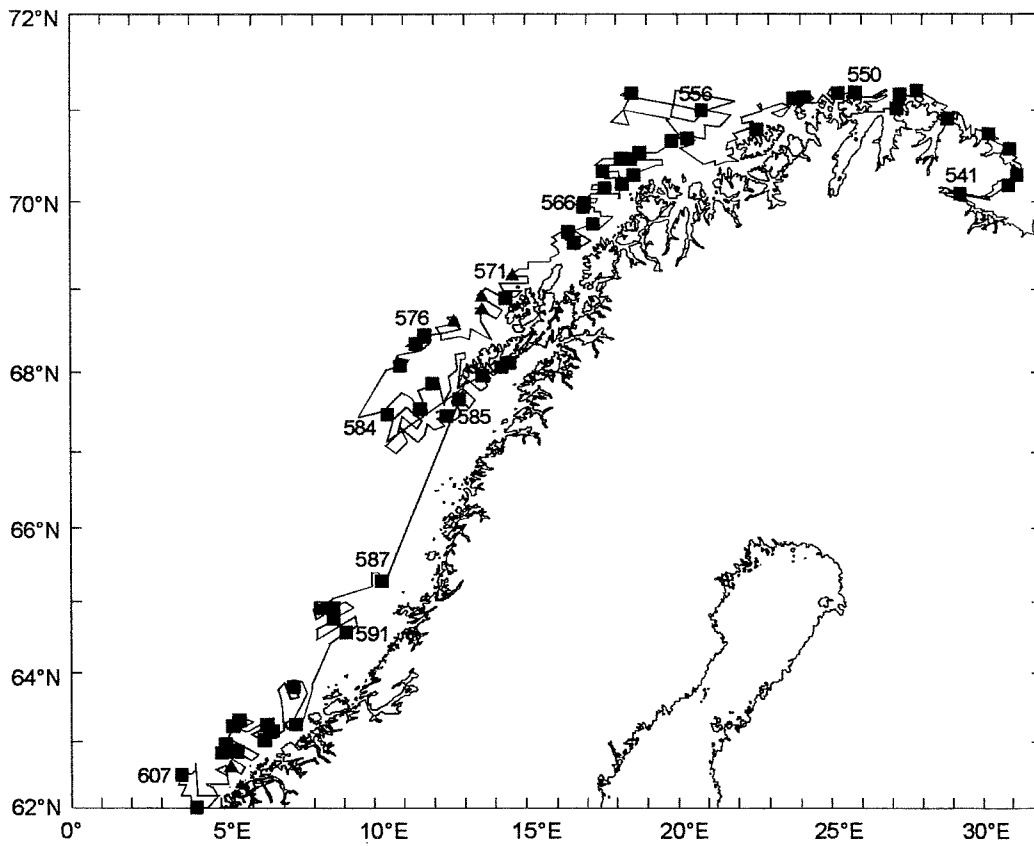
Cruise no 2002213



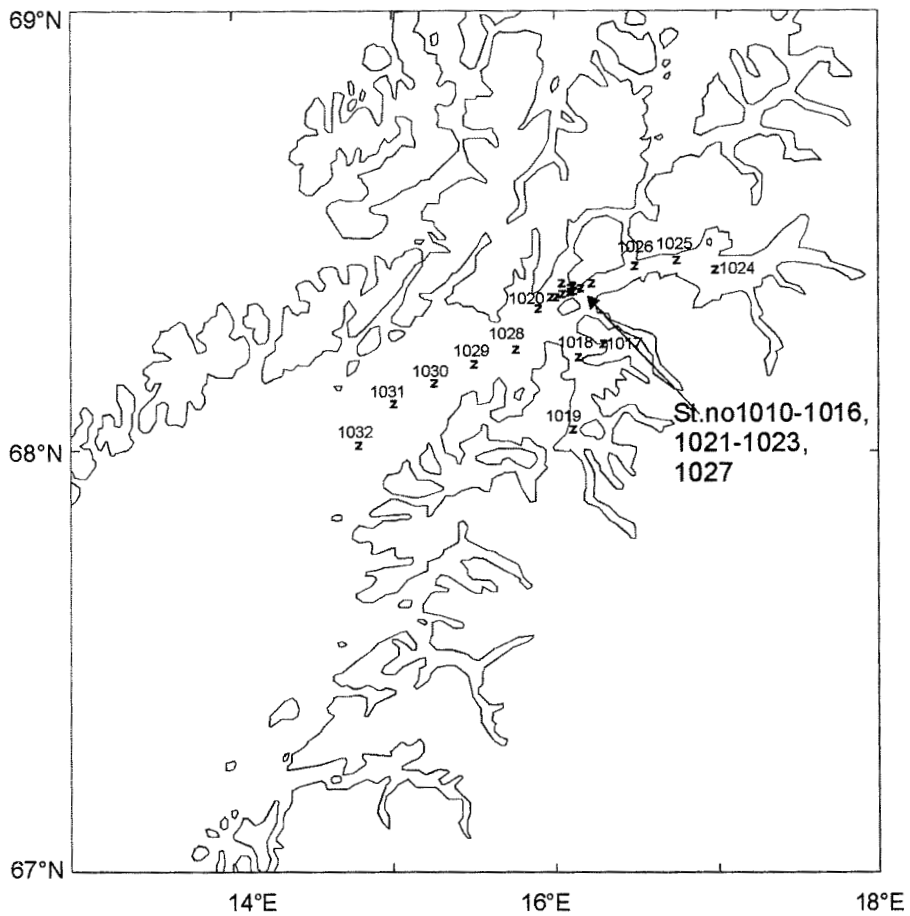
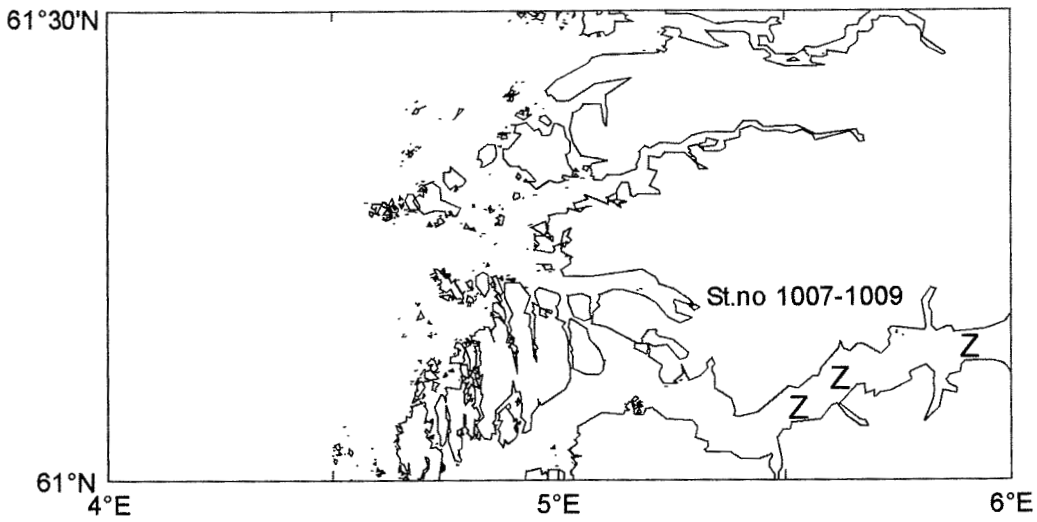
11 Oct - 7 Nov 2002
Cruise no 2002214

z CTD st.no 918 - 1006

"Johan Hjort"



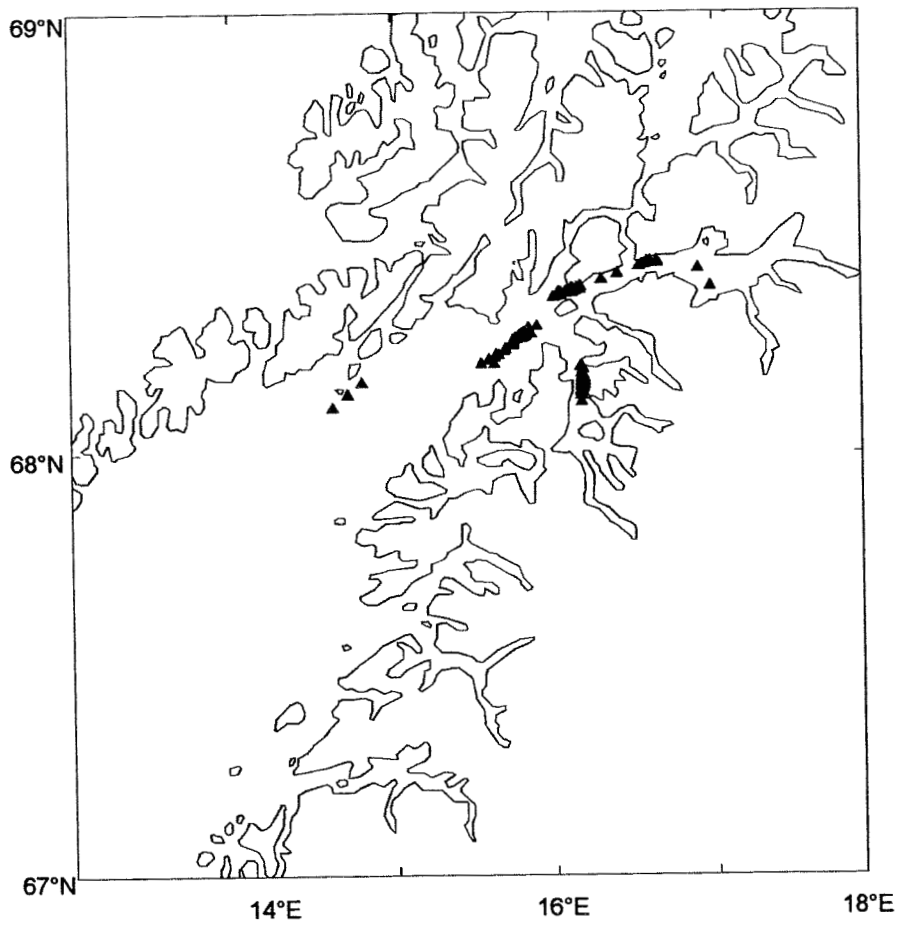
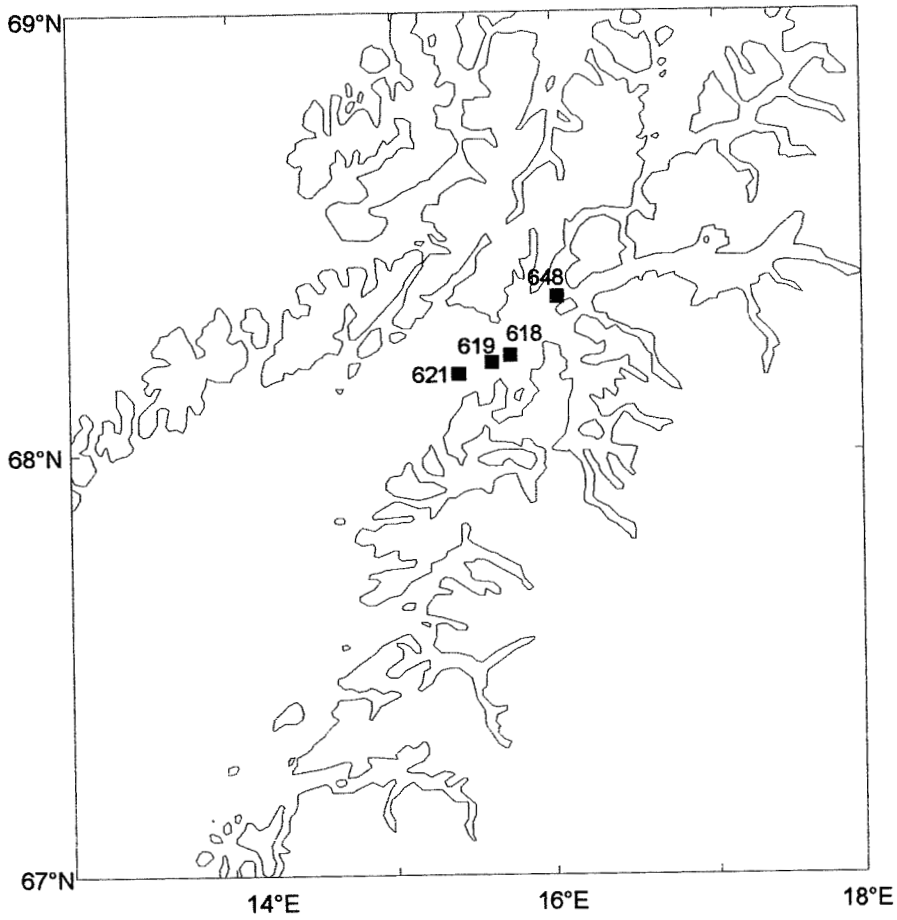
Trawl st.no 541-607 ■ Bottom trawl ▲ Pelagic trawl



28 Nov - 17 Dec 2002
Cruise no 2002215

z CTD st.no 1007-1032

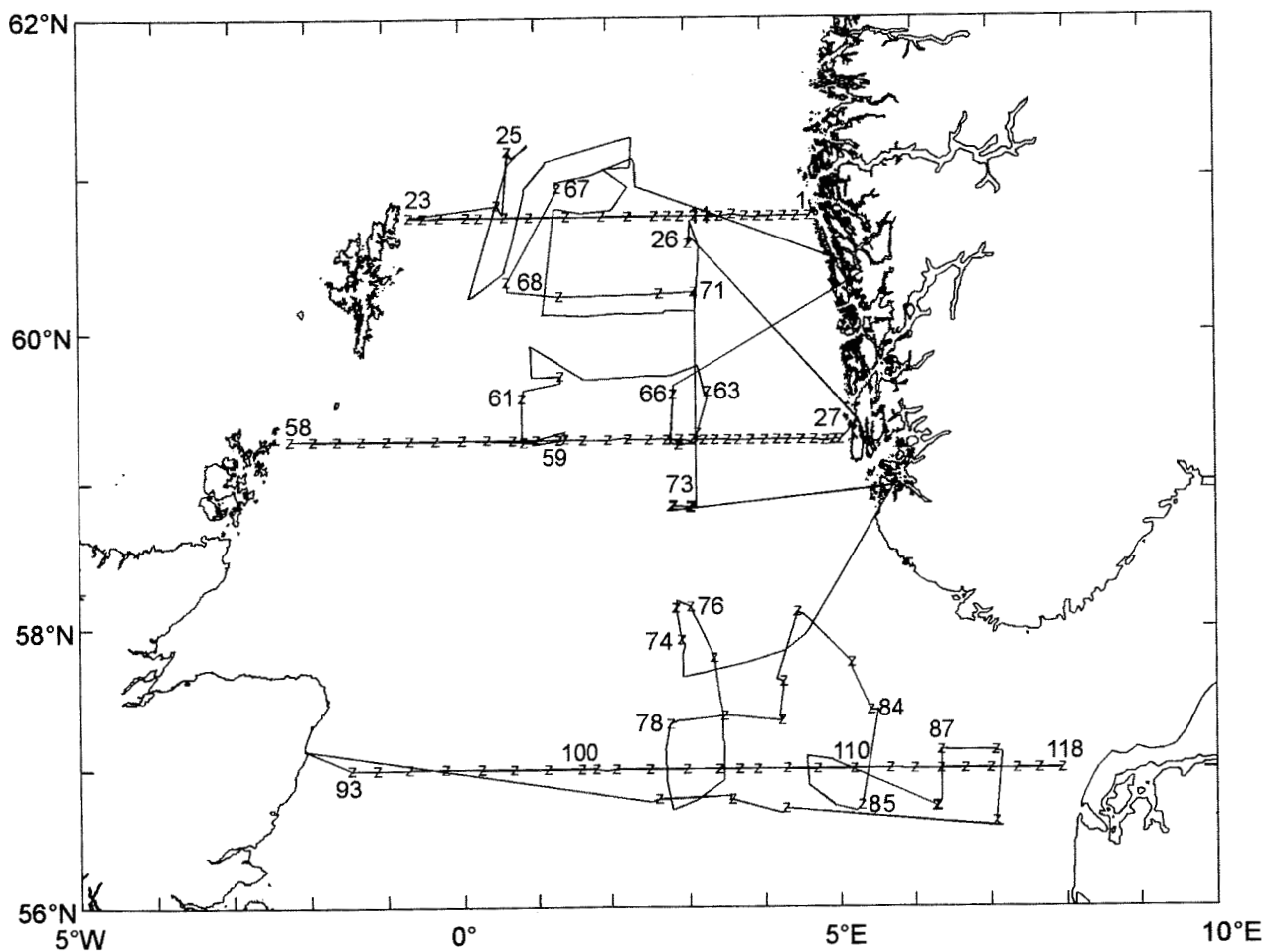
"Johan Hjort"



28 Nov - 17 Dec 2002
Cruise no 2002215

St.no 618 -648
■ Pelagic trawl
▲ Bottom trawl

"Johan Hjort"



19 Jan - 22 Feb 2002
 Cruise no 2002101

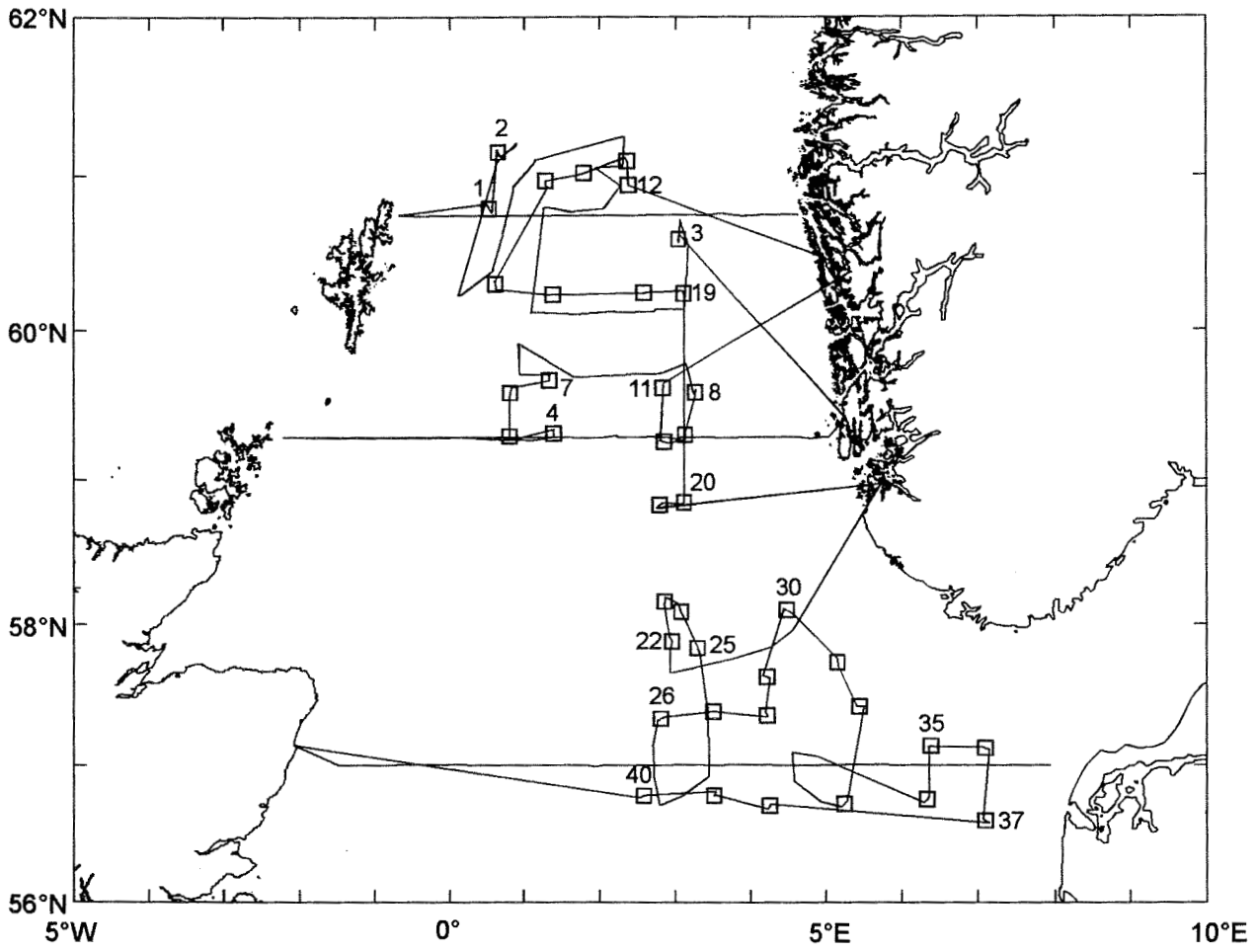
z CTD st.no 1 - 118

"Michael Sars"

Standard sections: Feie-Shetland st.no 1-23

Utsira W st.no 27-58

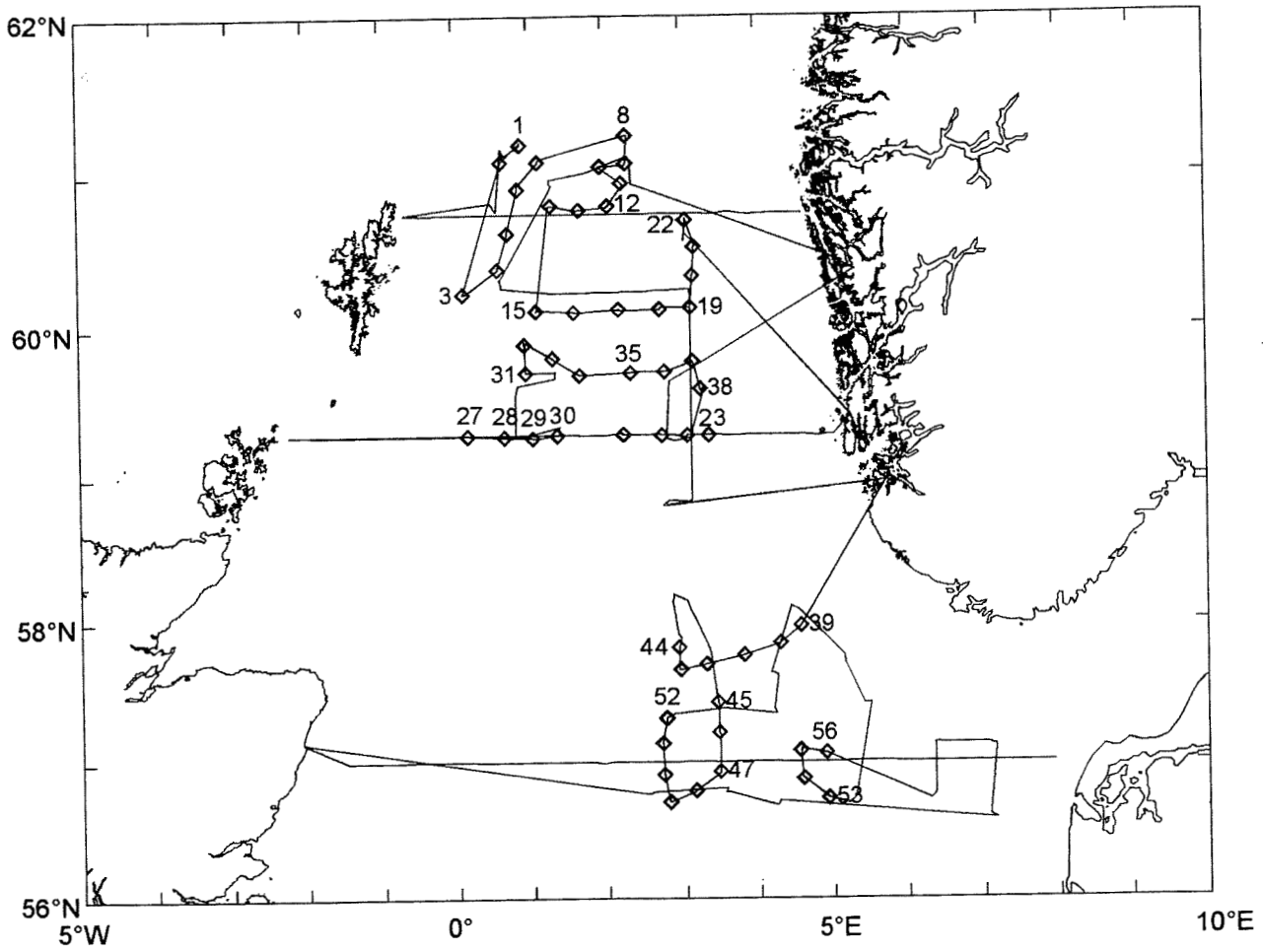
Hansthalm-Aberdeen st.no 93-118



19 Jan - 22 Feb 2002
Cruise no 2002101

□ Bottom trawl st.no 1 - 40

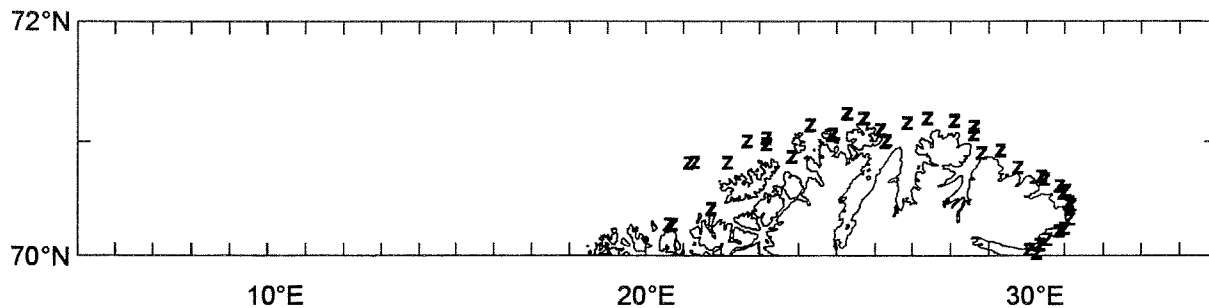
"Michael Sars"



19 Jan - 22 Feb 2002
 Cruise no 2002101

◇ MIK stations

"Michael Sars"

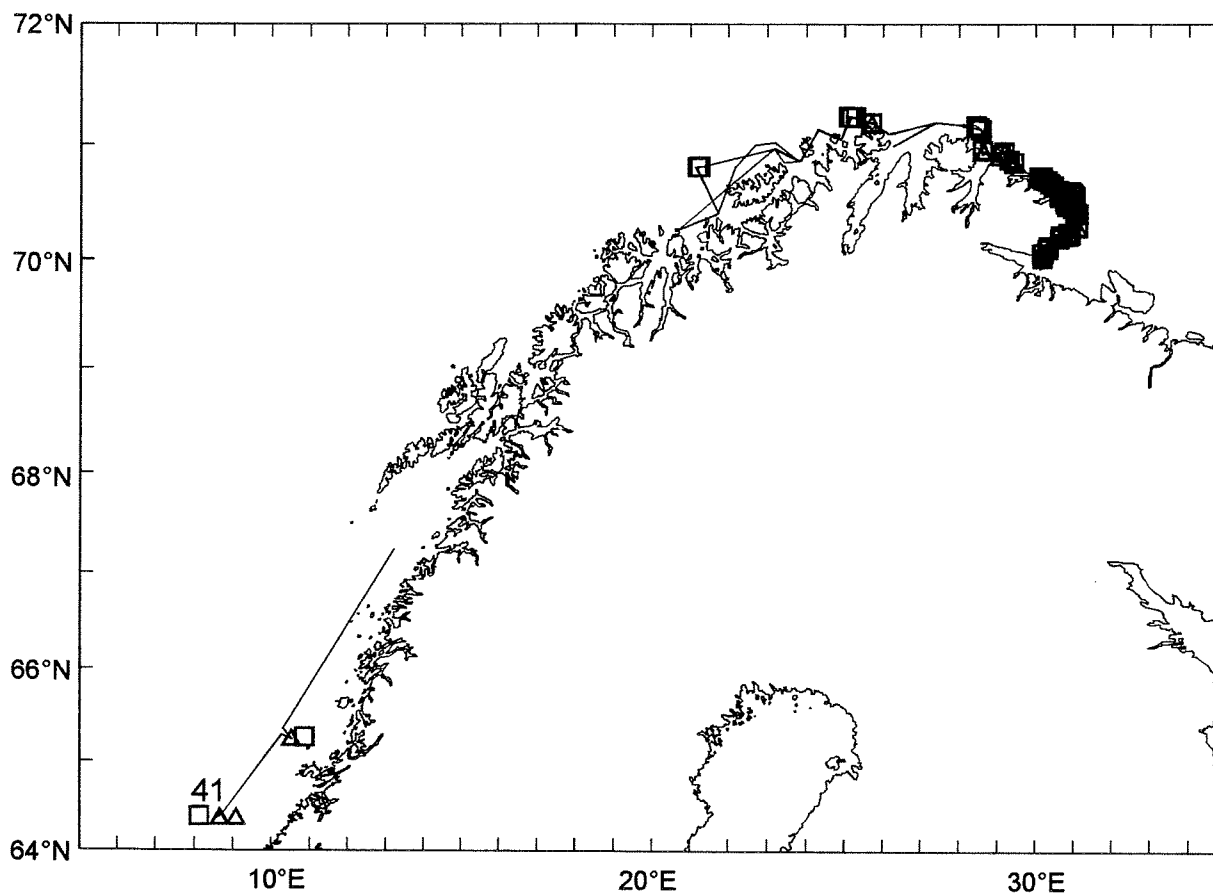


4 Mar - 6 Apr 2002

z CTD st.no 119-215

"Michael Sars"

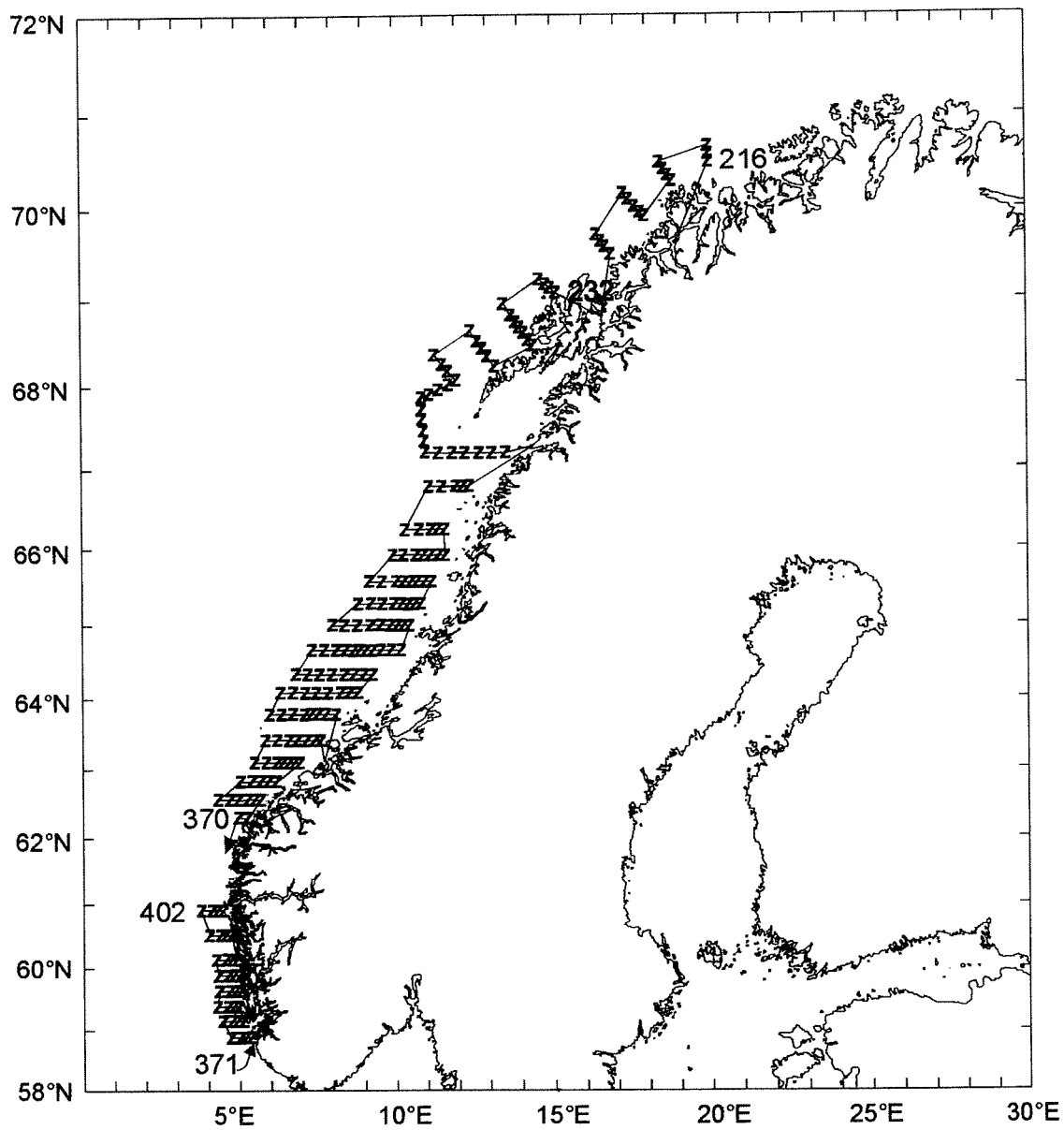
Cruise no 2002102



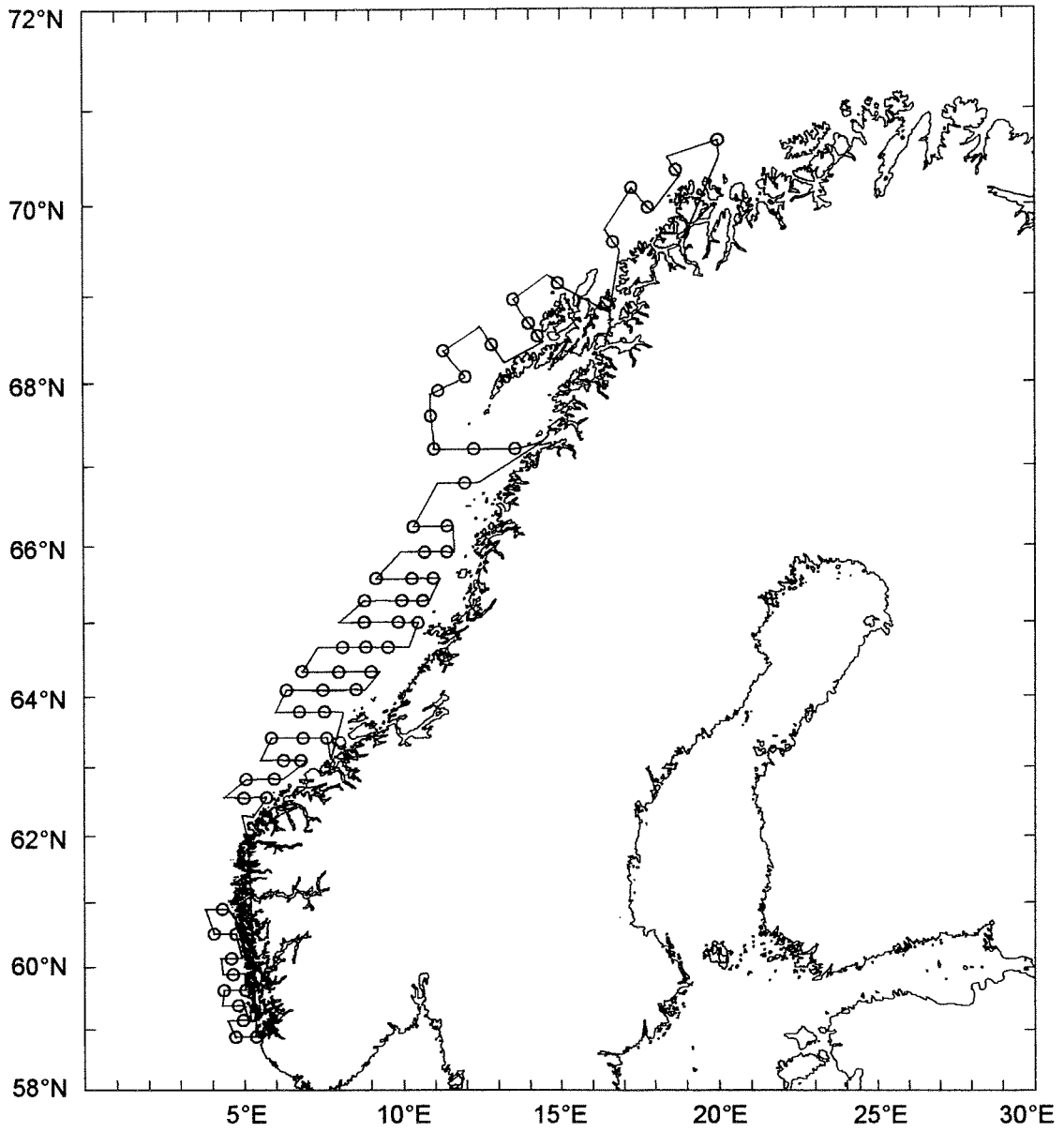
Trawl st.no st.no 41 - 99

△ Pelagic trawl

□ Bottom trawl



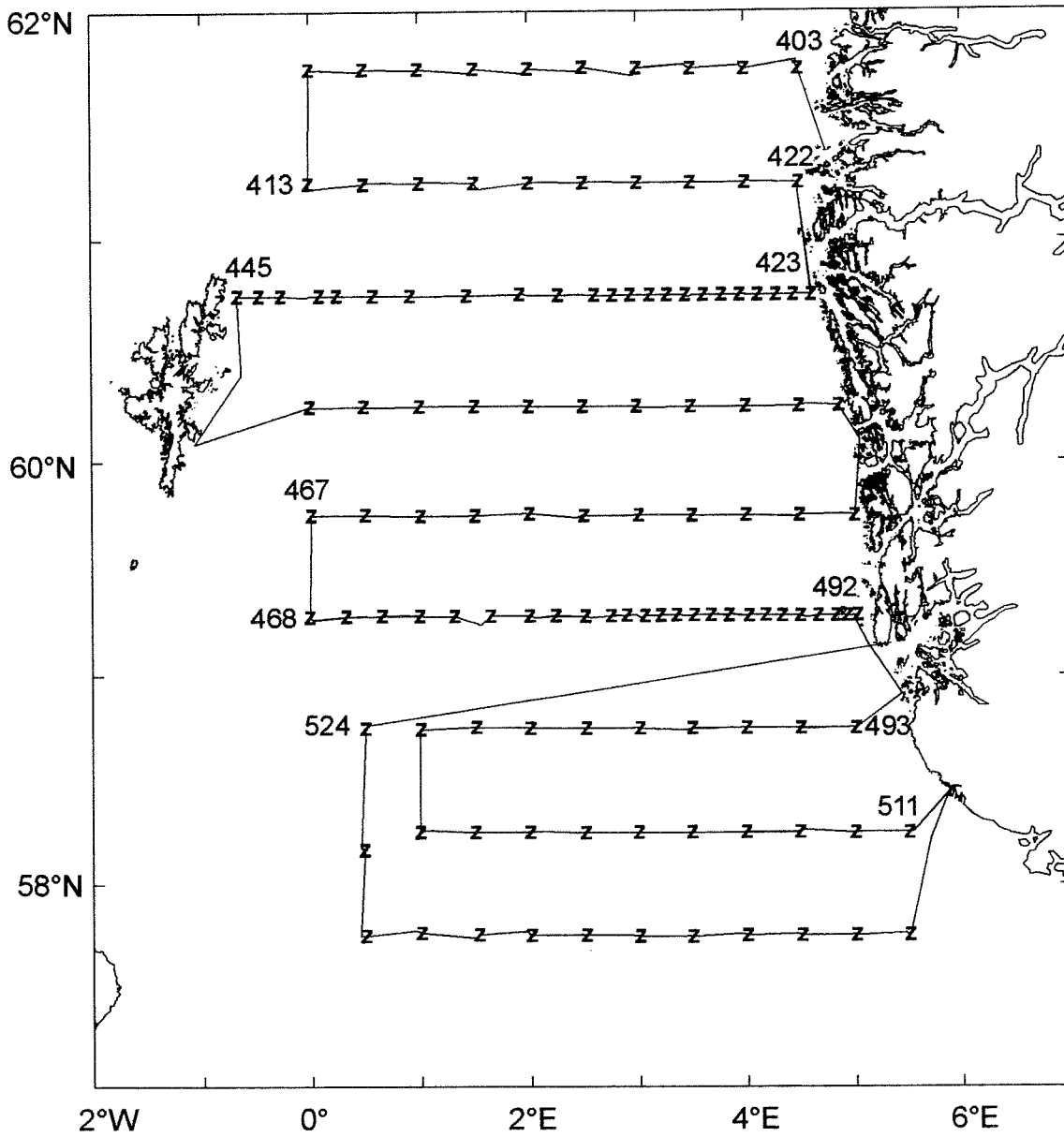
8 - 25 April 2002 z CTD and larvae sampling stations (Gulf3/T80-net) "Michael Sars"
 Cruise no 2002103 st.no 216 - 402



8 - 25 April 2002
Cruise no 2002103

○ Plankton stations (WP-II-net),
chlorophyll and nutrients

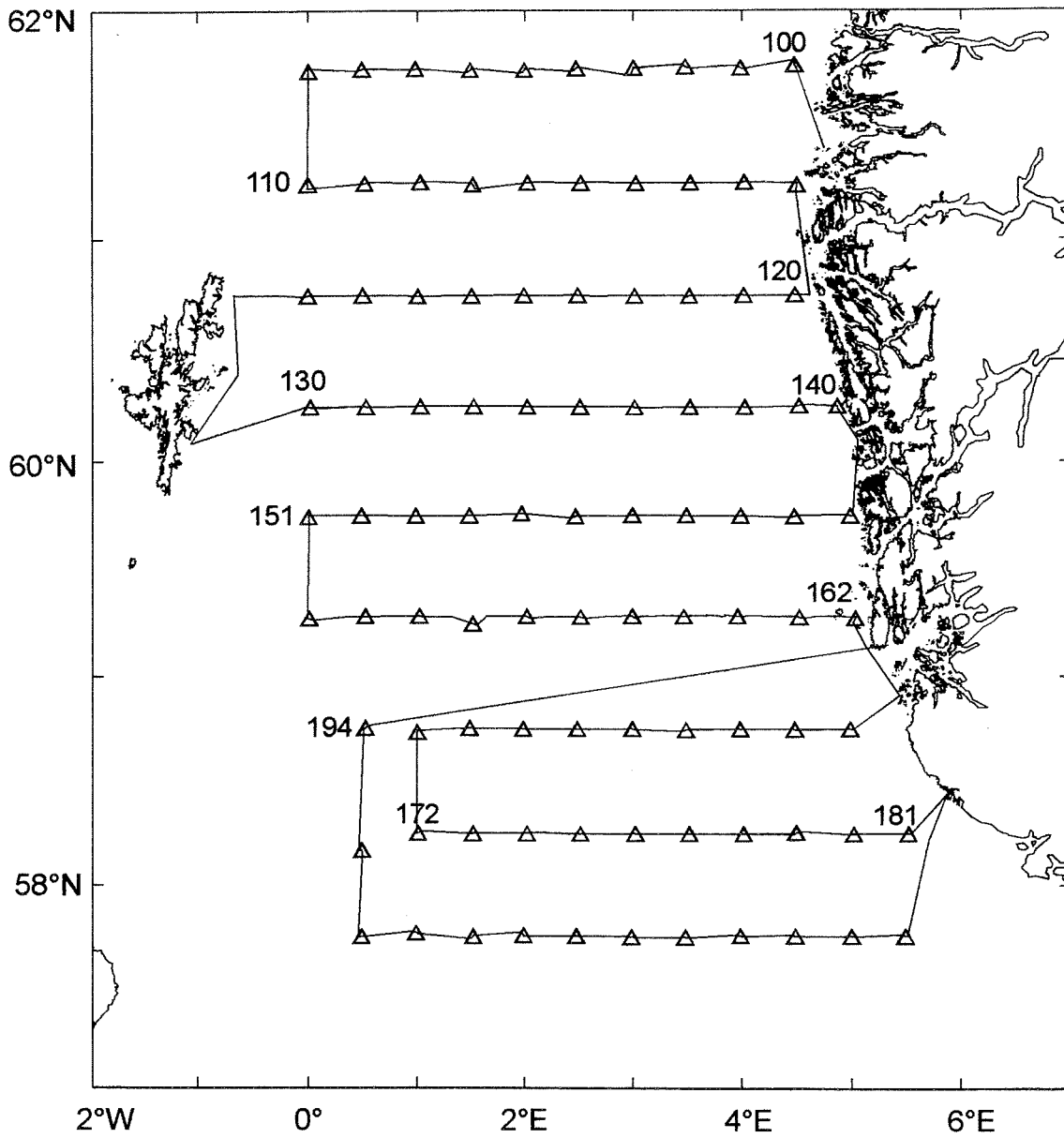
"Michael Sars"



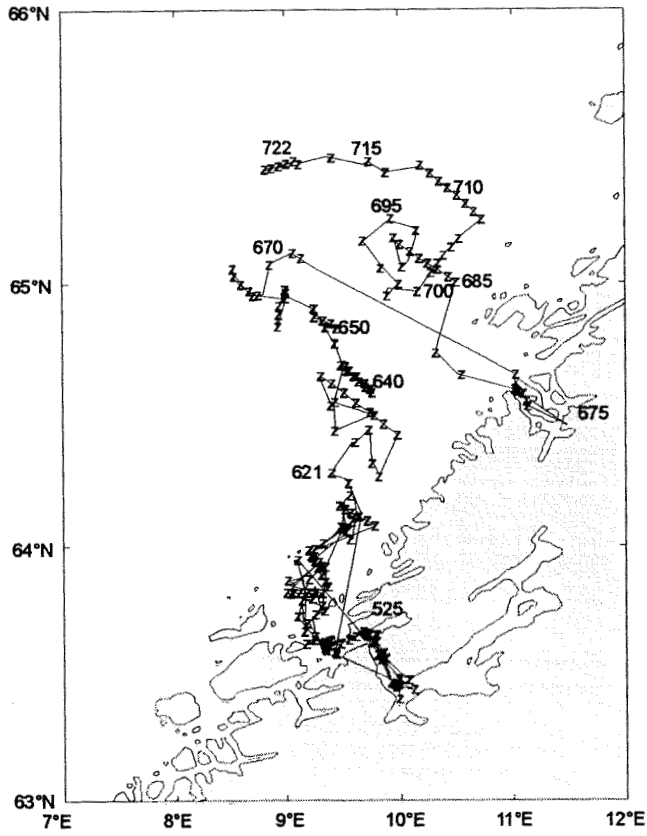
27 April - 11 May 2002
 Cruise no 2002104

z CTD st.no 403 - 524
 Standard sections
 Feie - Shetland st.no 423 - 445
 Utsira W st.no 468 - 492

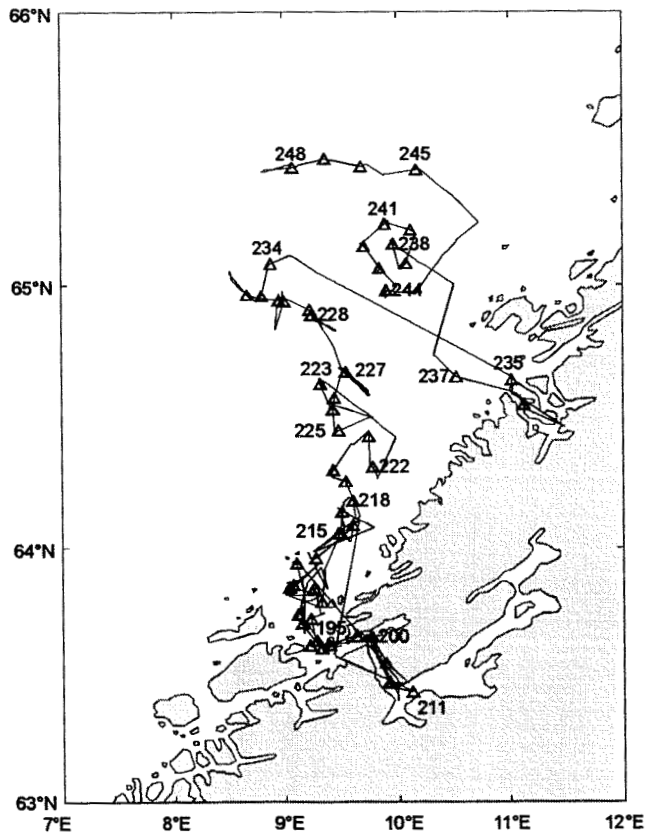
"Michael Sars"



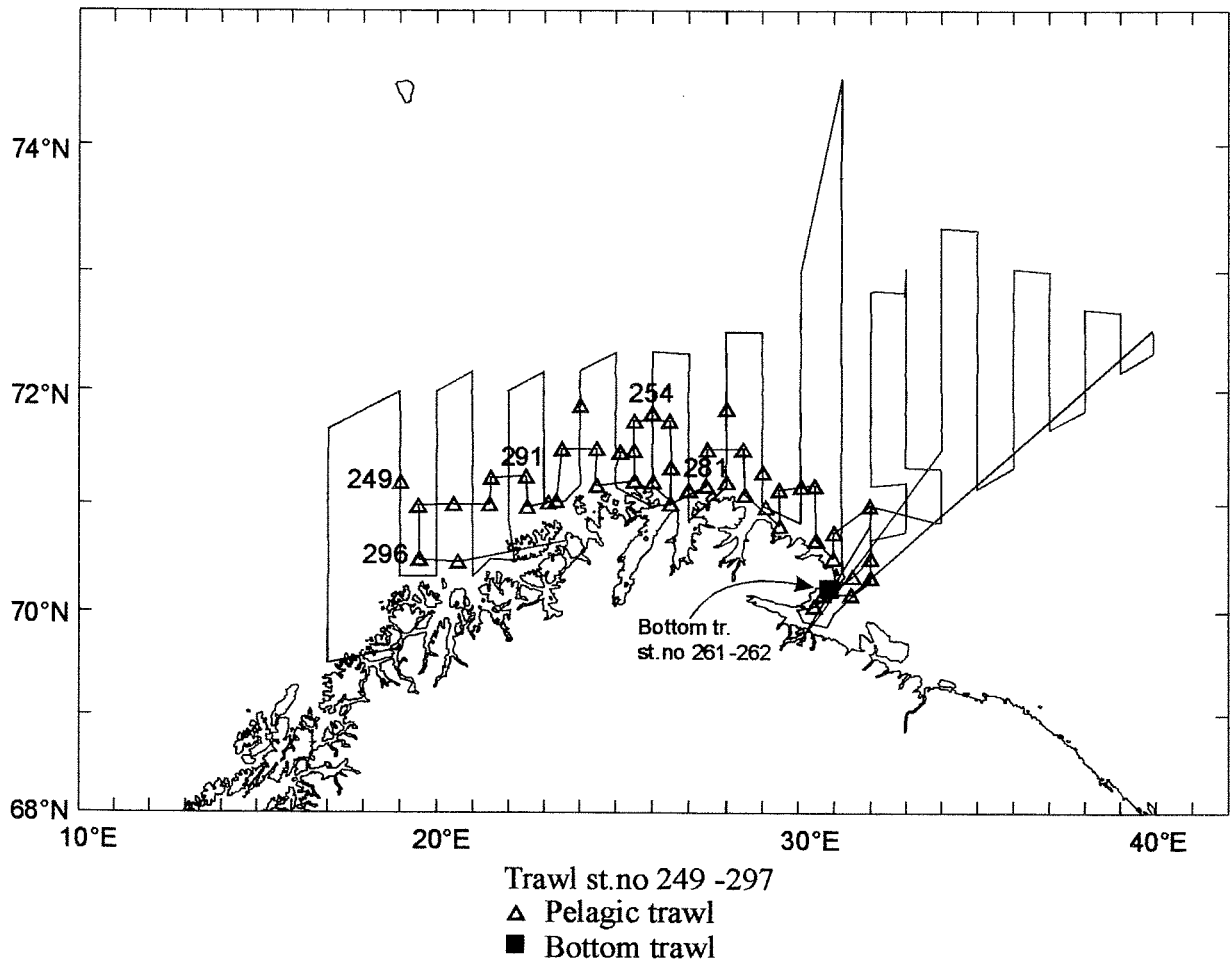
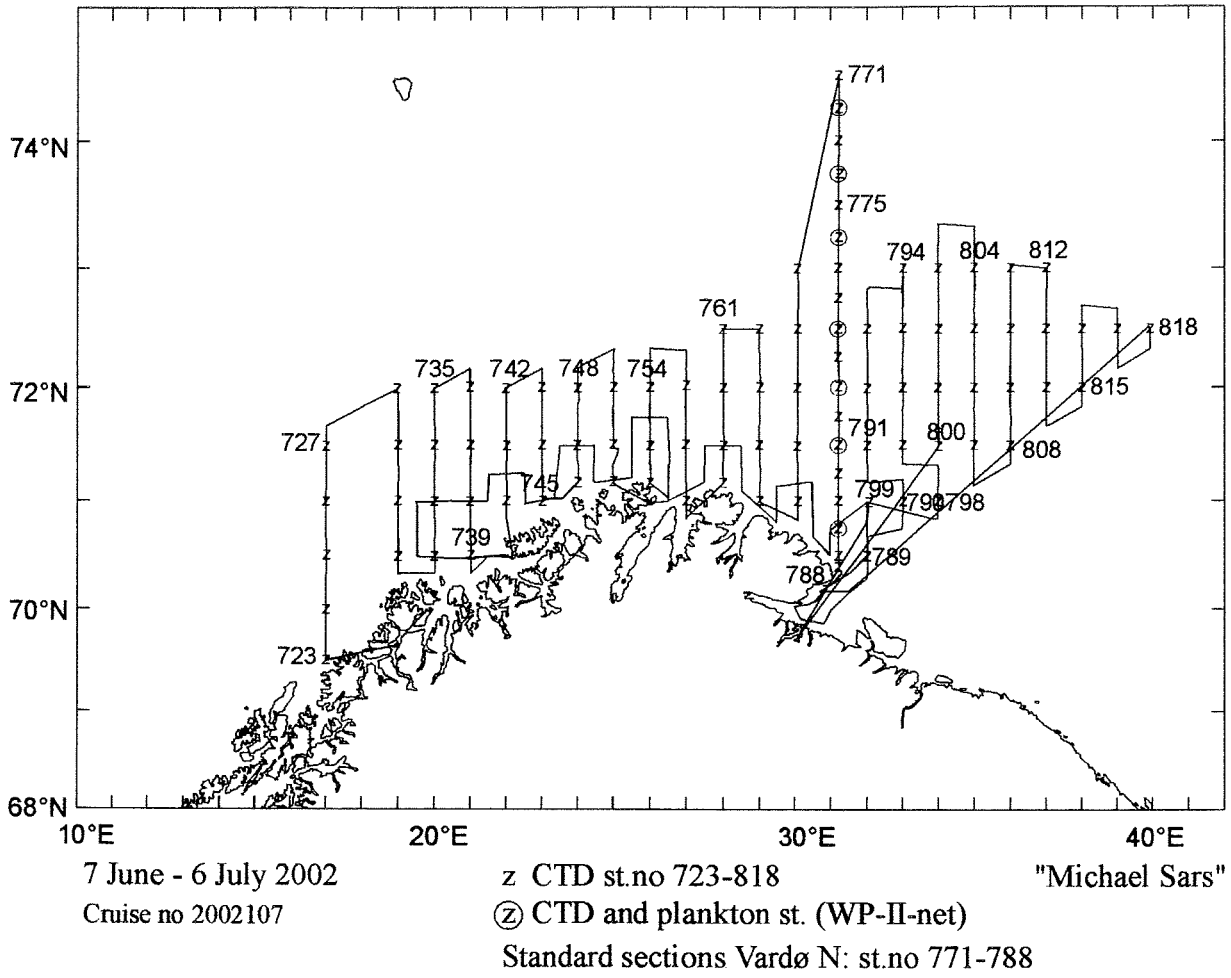
27 April - 11 May 2002 Δ Pelagic trawl st.no 100 - 194 "Michael Sars"
 Cruise no 2002104

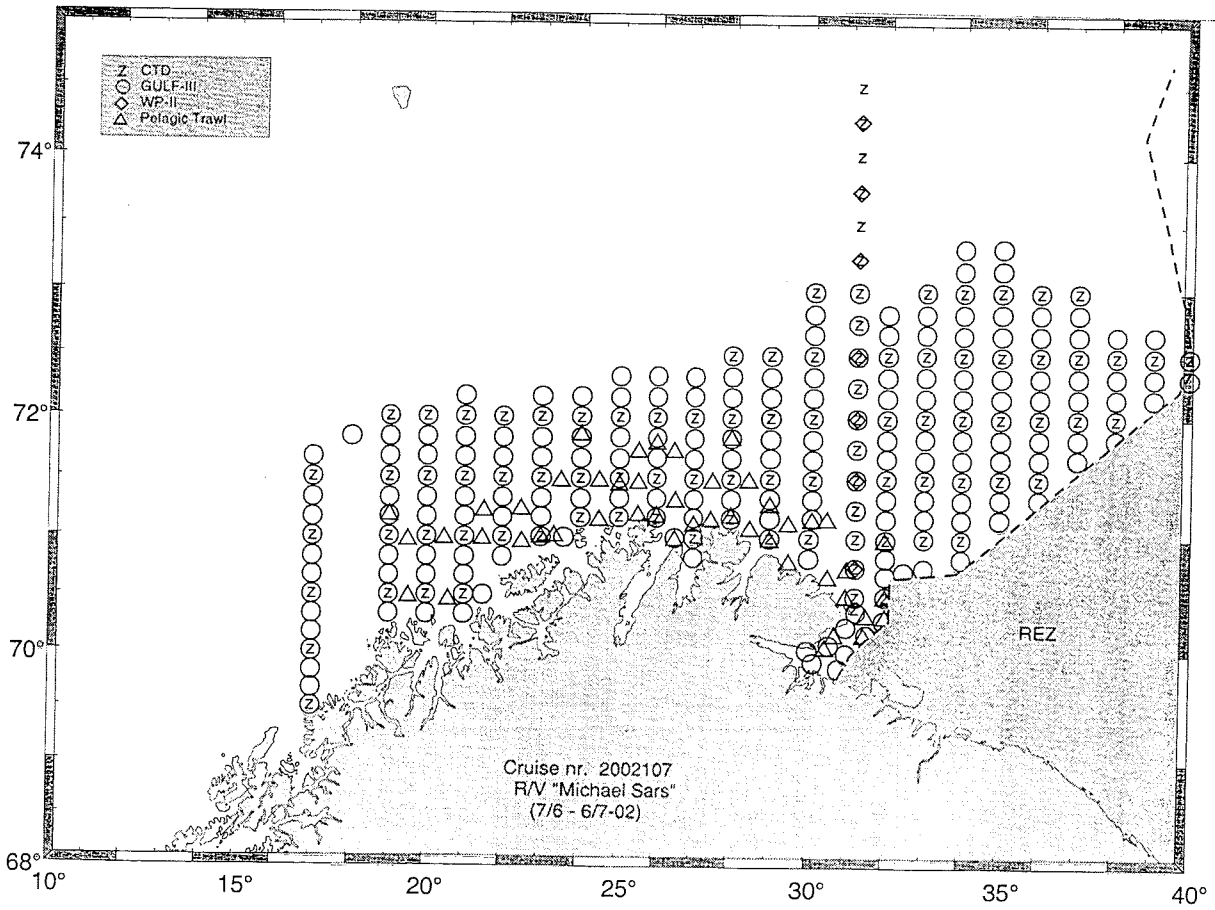


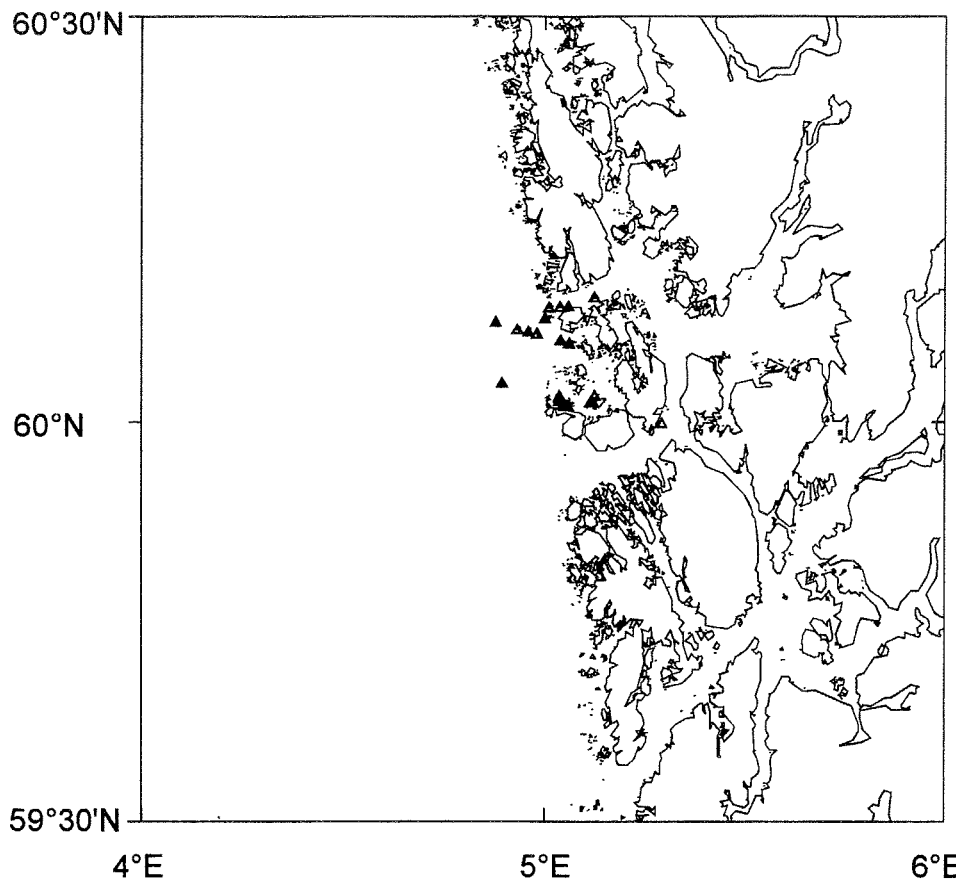
21 May - 5 June 2002 z CTD st.no 525-722 "Michael Sars"
 Cruise no 2002106



Pelagic trawl st.no 195-248

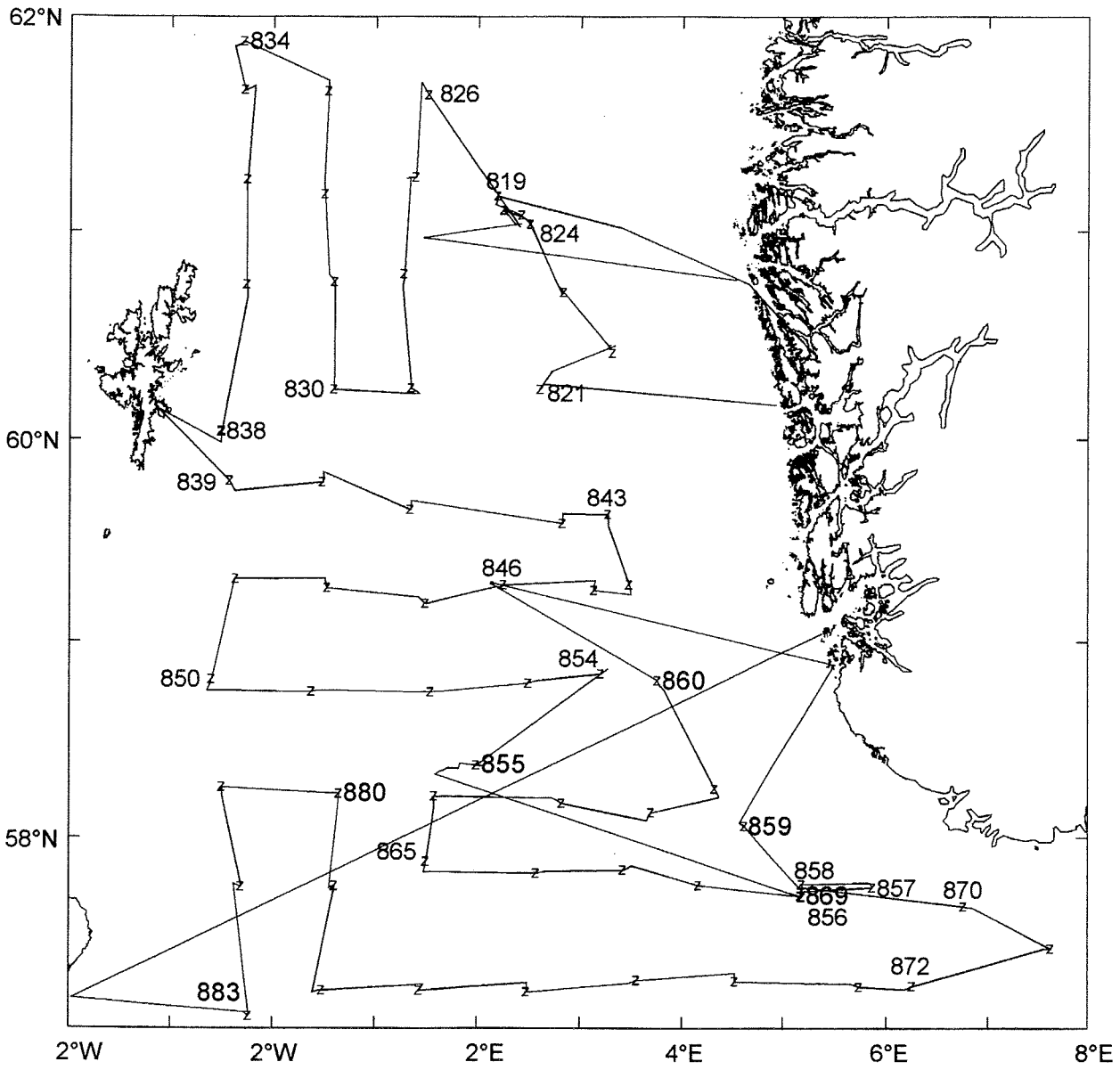






9 - 21 August 2002
Cruise no 2002109

▲ Pelagic trawl st.no 298 - 321 "Michael Sars"

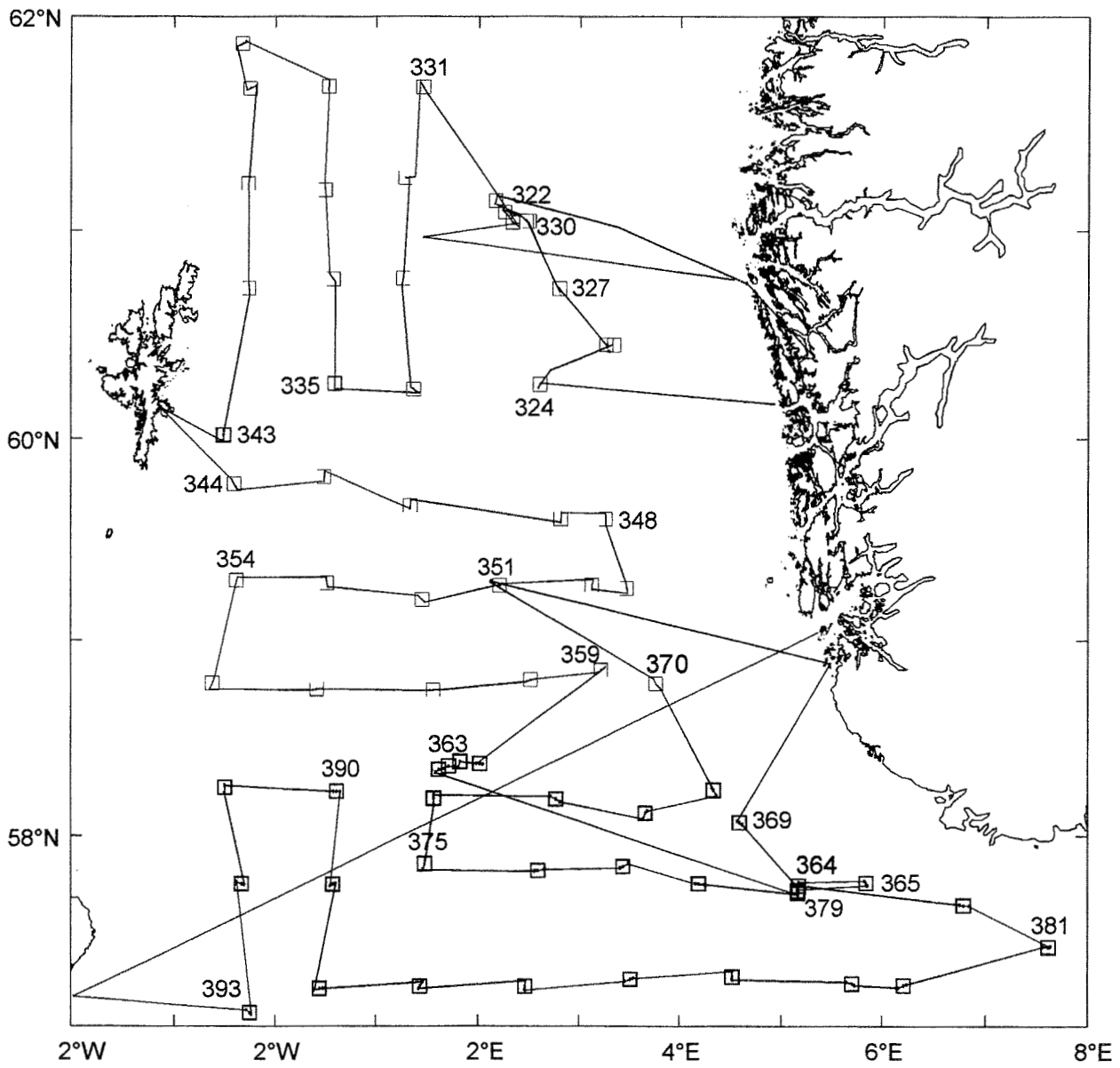


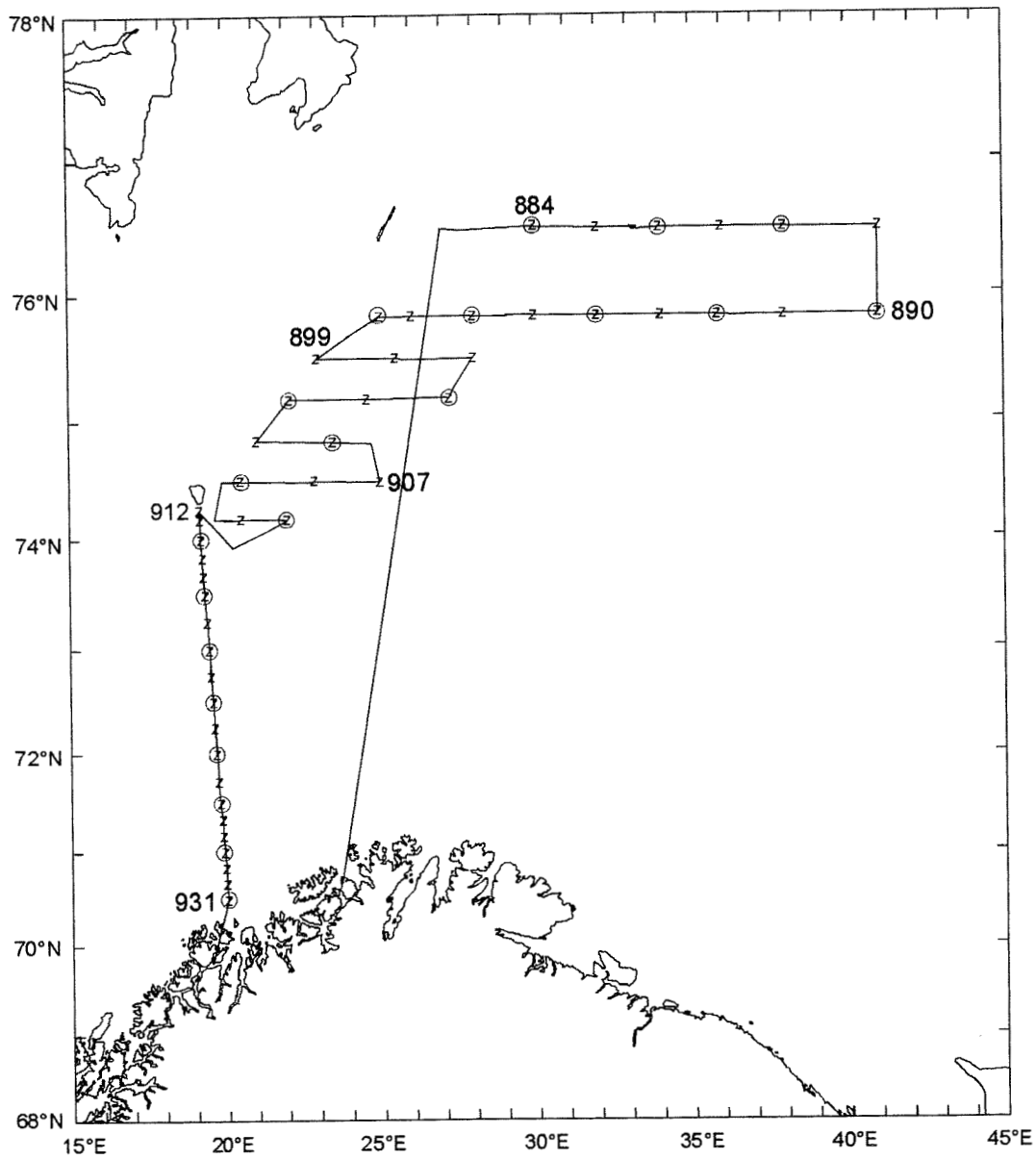
22 August - 14 September 2002

z CTD st.no 819 - 883

"Michael Sars"

Cruise no 2002110



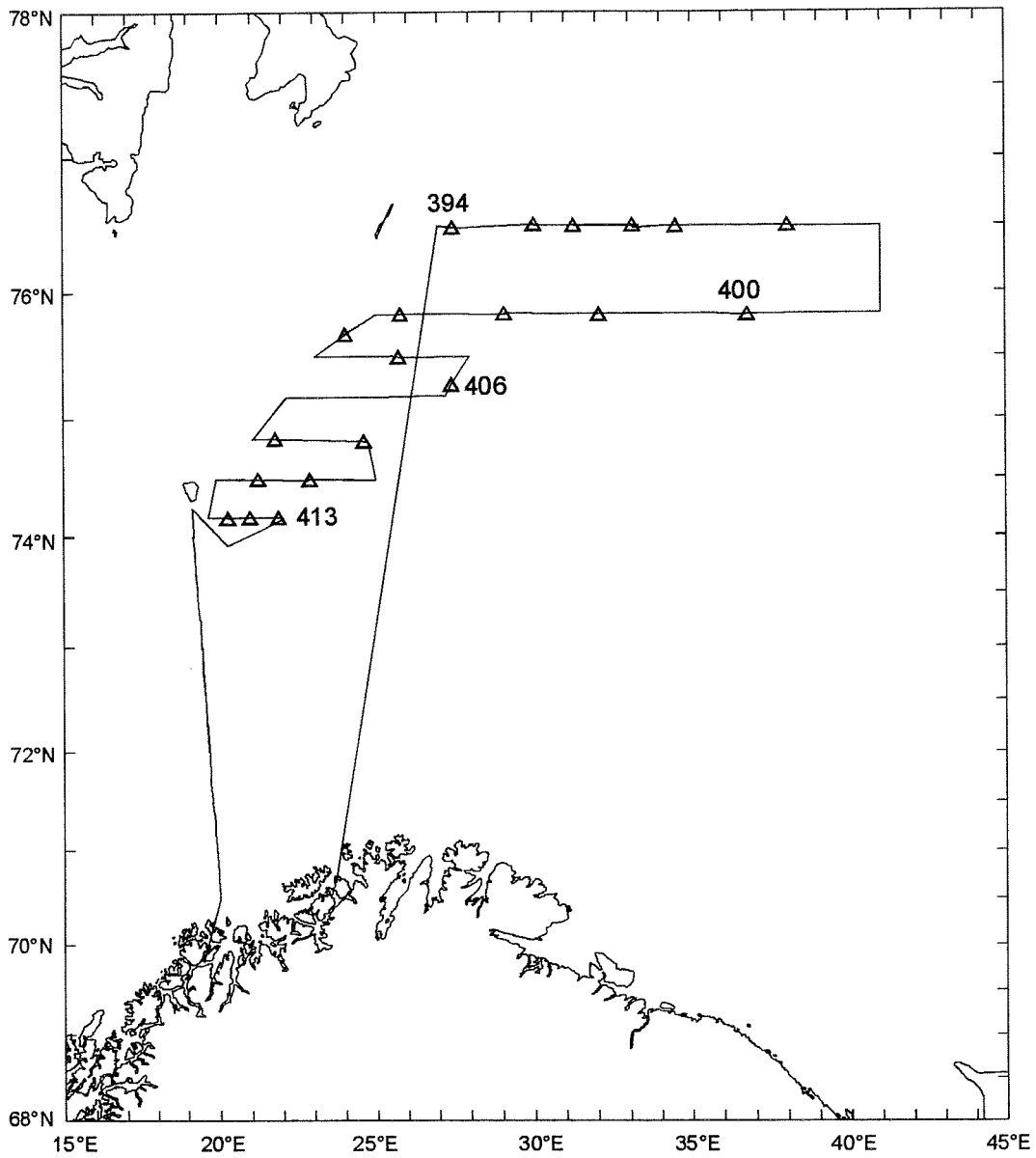


23 Sep - 4 Oct 2002
Cruise no 2002111

z CTD st.no 884 - 931
Standard section Fugløya - Bjørnøya: st.no 912-931

"Michael Sars"

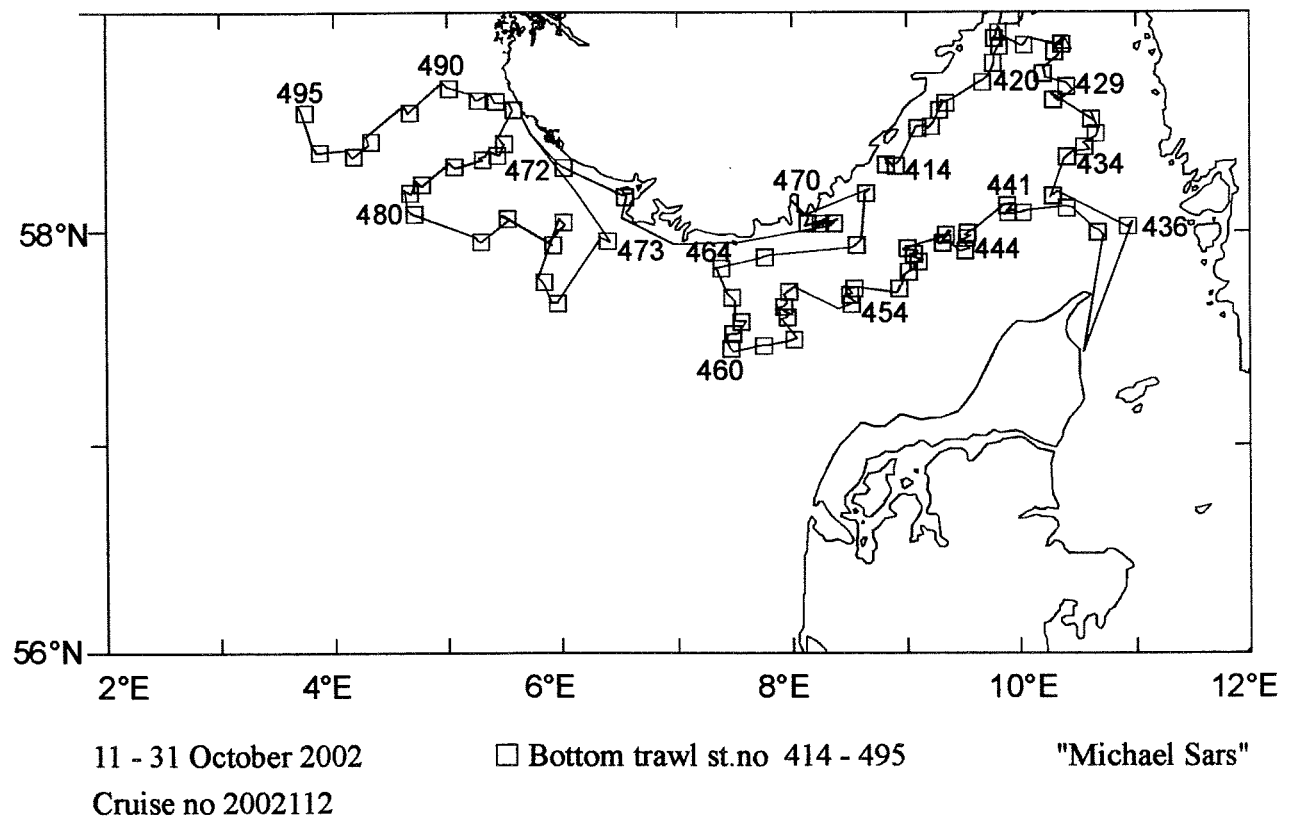
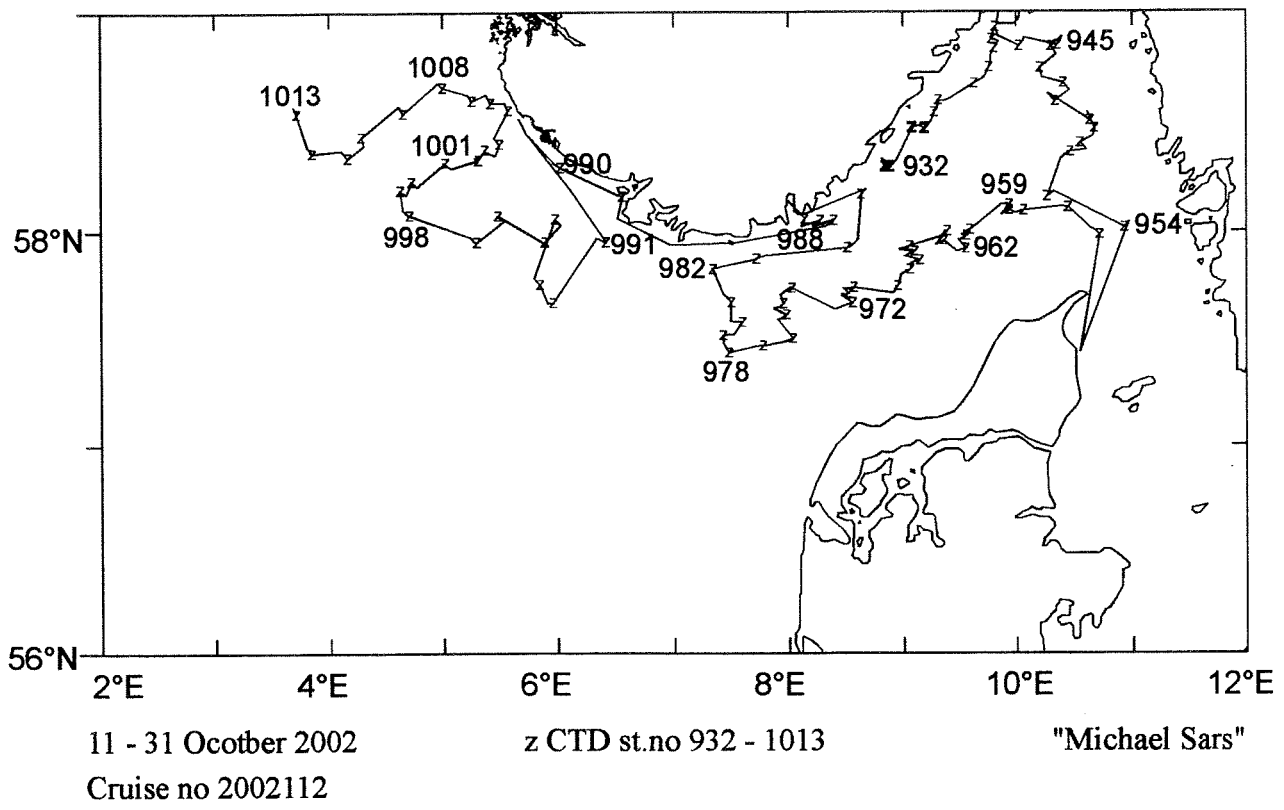
⓪ CTD and plankton st. (WP-II-net)

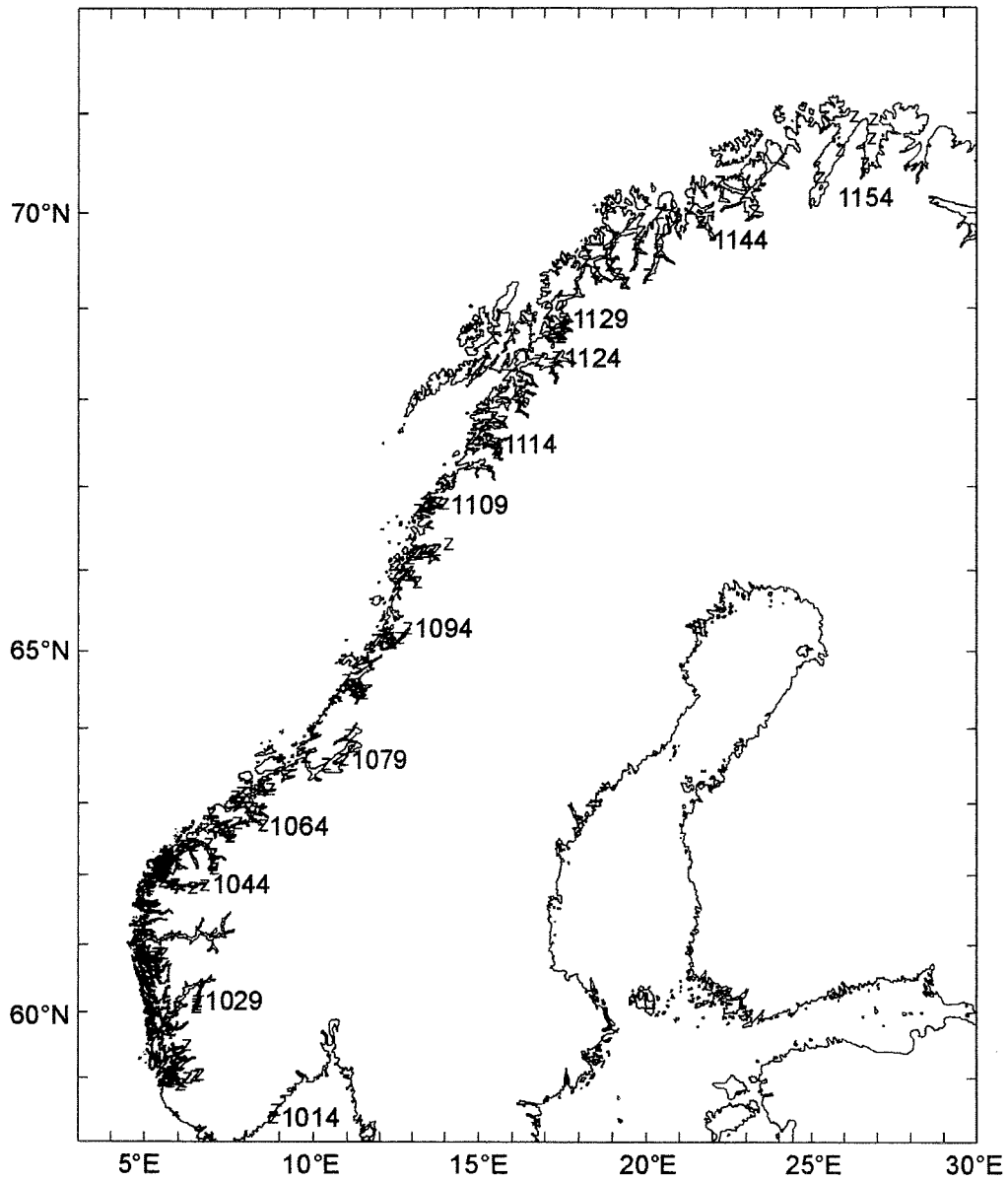


23 Sep - 4 Oct 2002
Cruise no 2002111

Δ Pelagic trawl st.no 394-413

"Michael Sars"

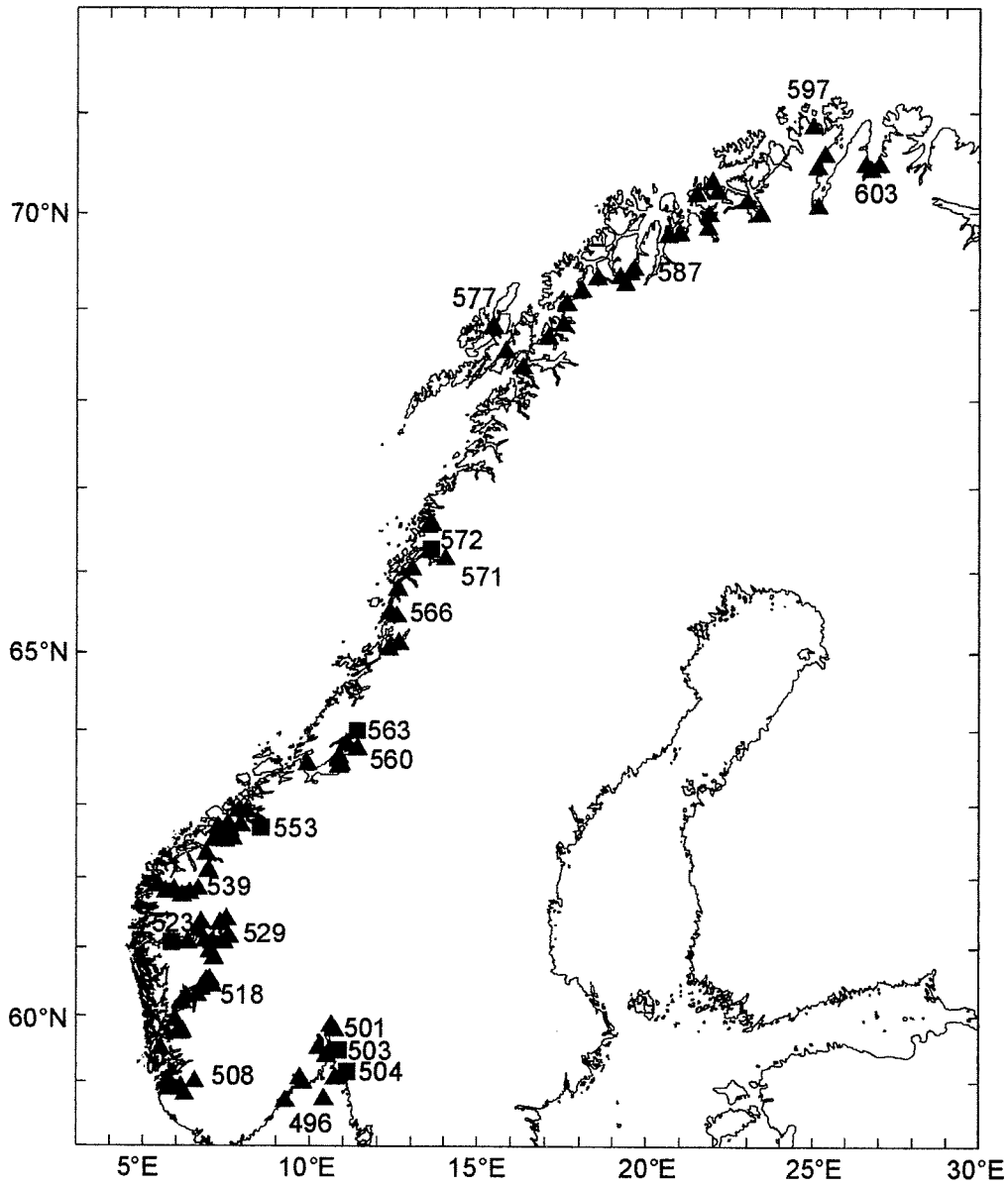




2 Nov - 16 Dec 2002
Cruise no 2002113

z CTD st.no 1014-1154

"Michael Sars"



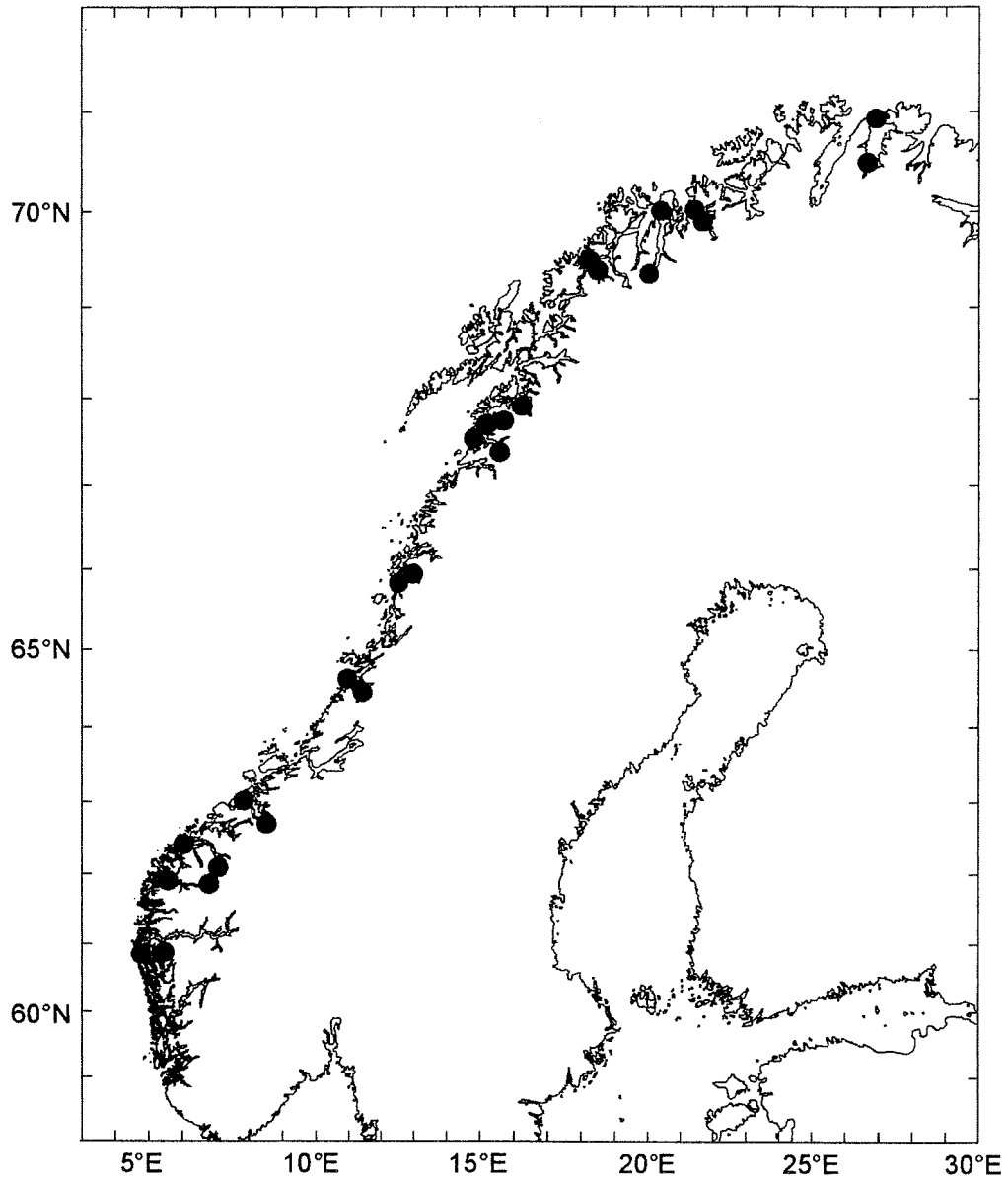
2 Nov - 16 Dec 2002
Cruise no 2002113

Trawl st.no 496-603

"Michael Sars"

▲ Pelagic trawl

■ Bottom trawl (503,504,523,553,563,572)

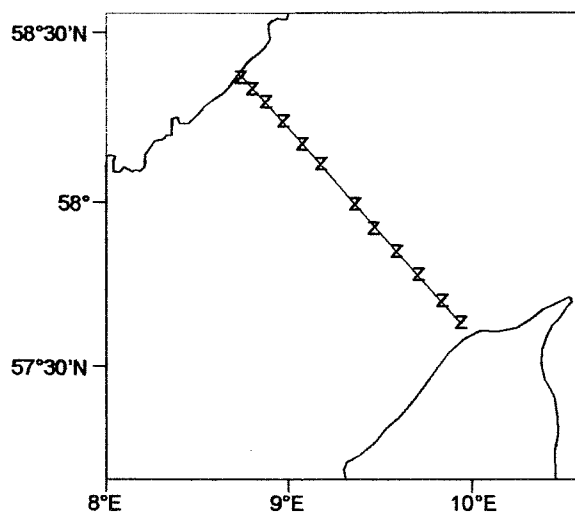


2 Nov - 16 Dec 2002
Cruise no 2002113

● Grab station

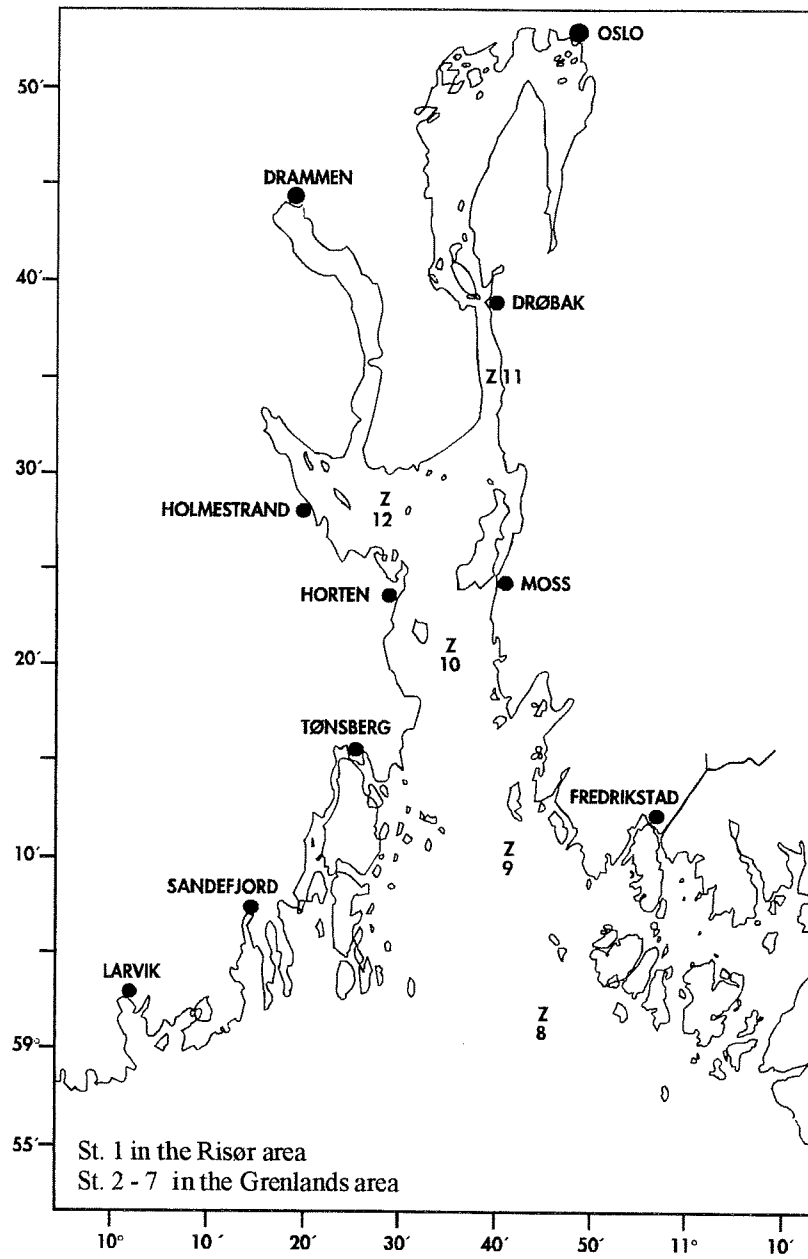
"Michael Sars"

TORUNGEN - HIRTSHALS - 2002



CTD st.no

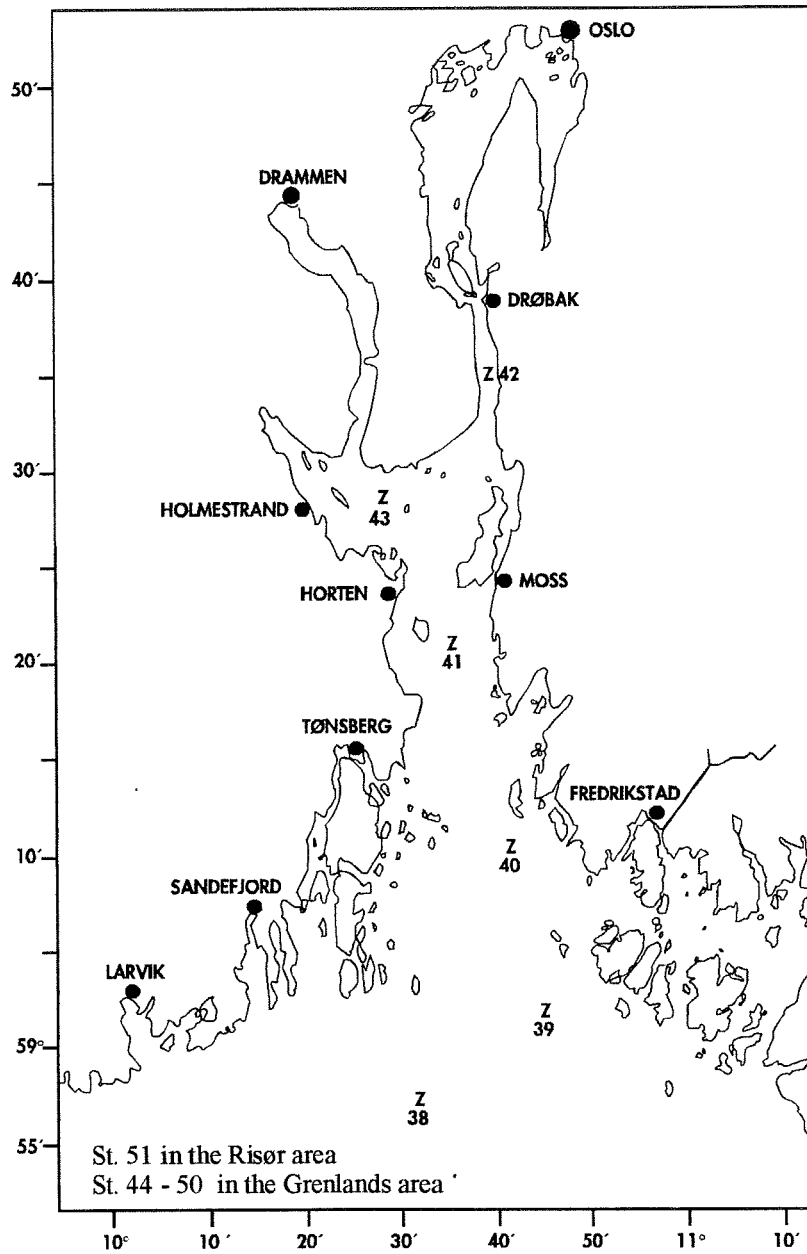
January	St.no 13 - 24
February	26 - 37
March	72 - 83
April	99 - 110
May	213 - 224
June	227 - 238
July	291 - 302
August	317 - 328
September	352 - 363
October	420 - 431
November	432 - 443
December	464 - 475



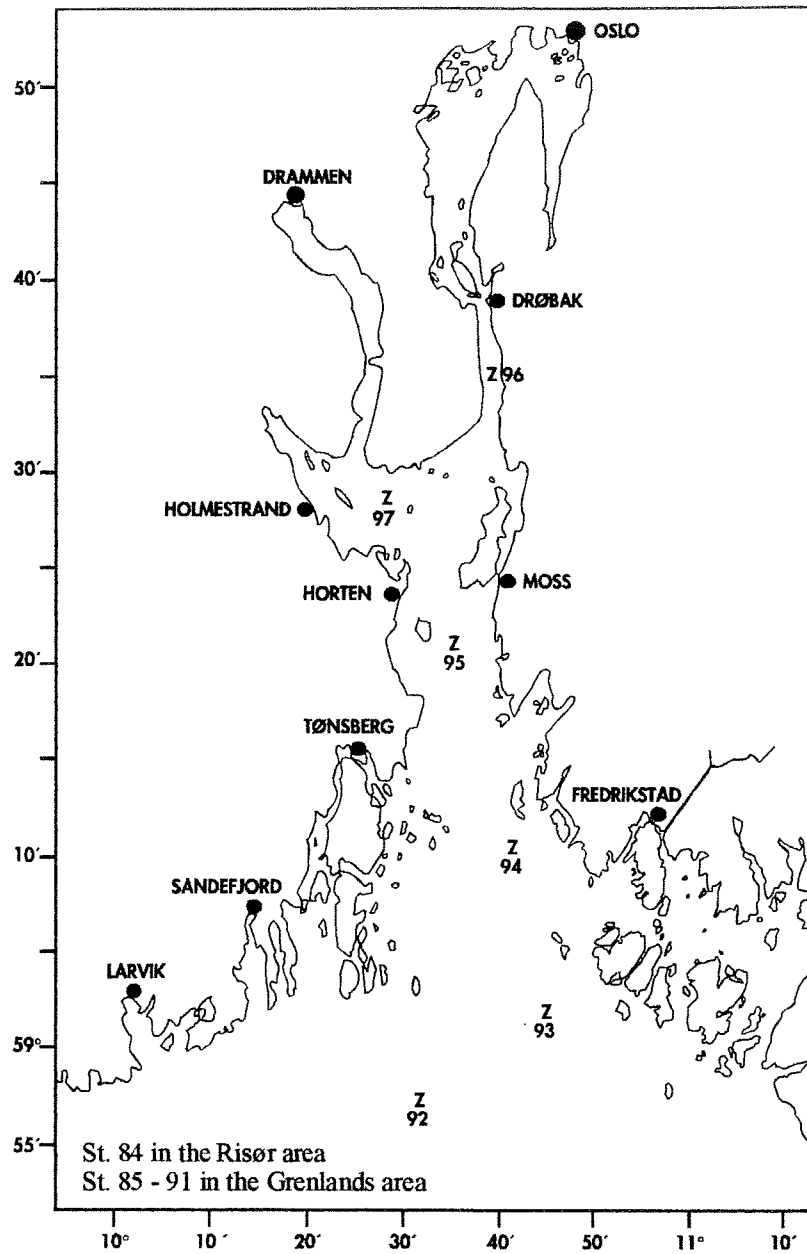
16 - 18 January 2002
 Cruise no 2002301

z CTD st.no 1 - 12

"G.M. Dannevig"



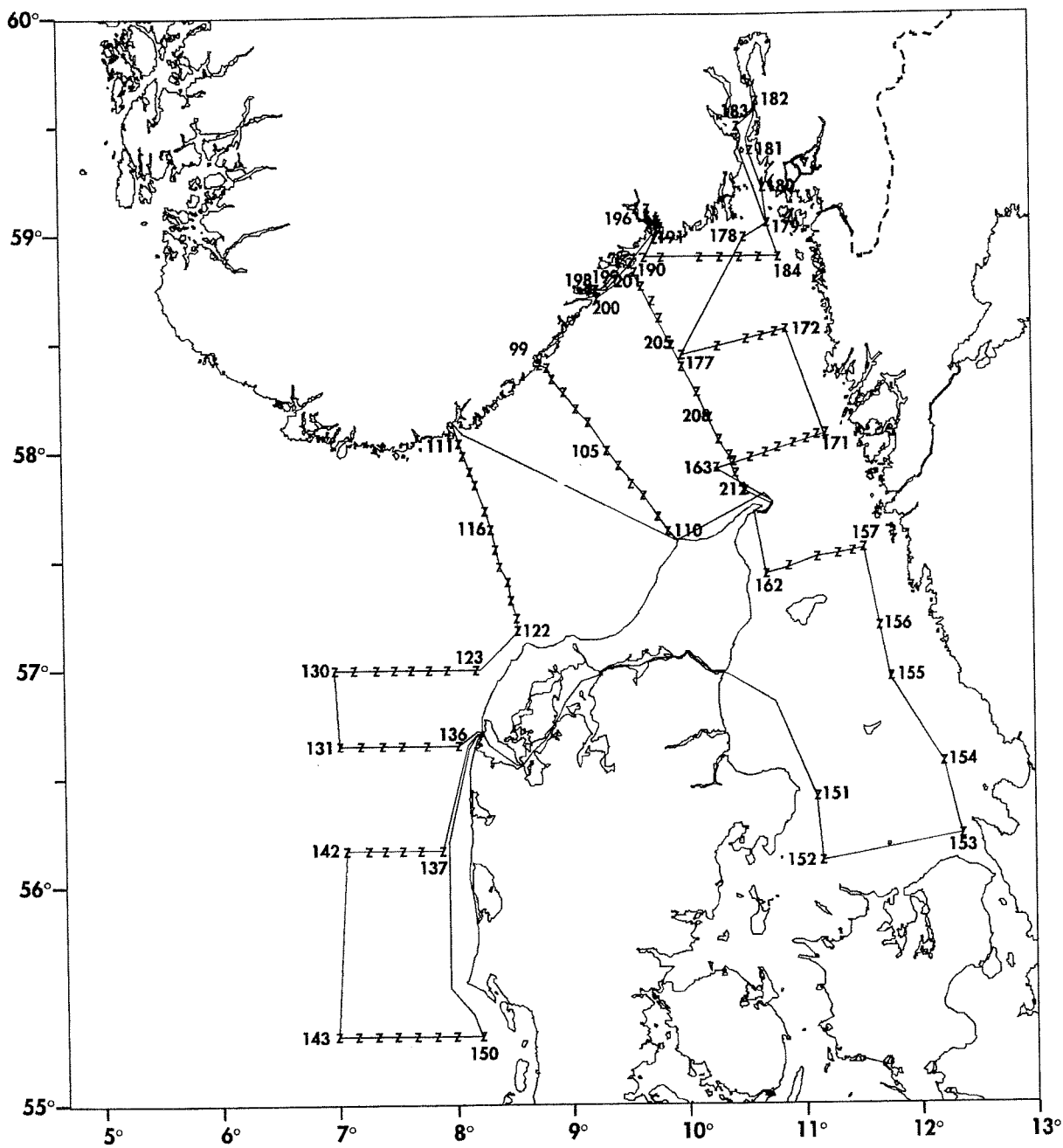
14 - 16 February 2002 z CTD st.no 38 - 51 "G.M.Dannevig"
 Cruise no 2002306



20 - 22 March 2002
 Cruise no 2002312

z CTD st.no 84 - 97

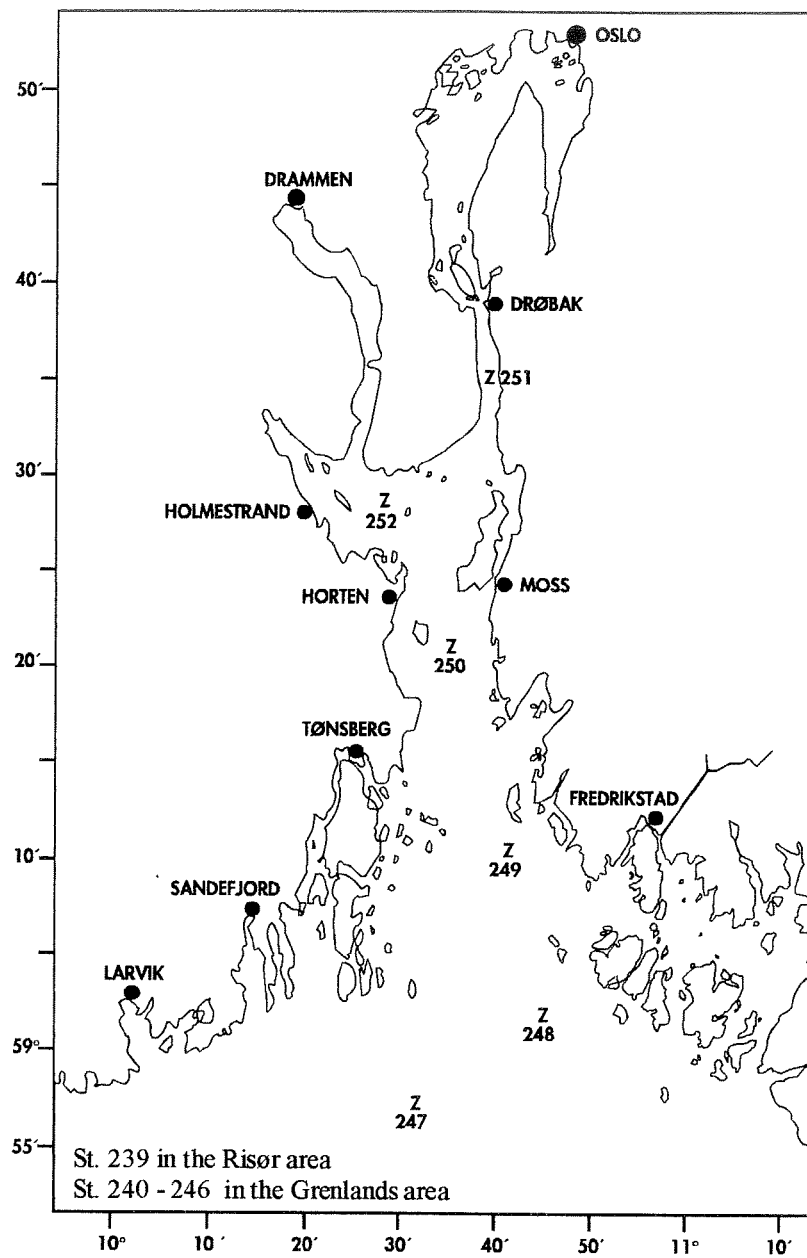
"G.M.Dannevig"



19 April - 7 May 2002
 Cruise no 2002315-317

z CTD st.no 99 - 212

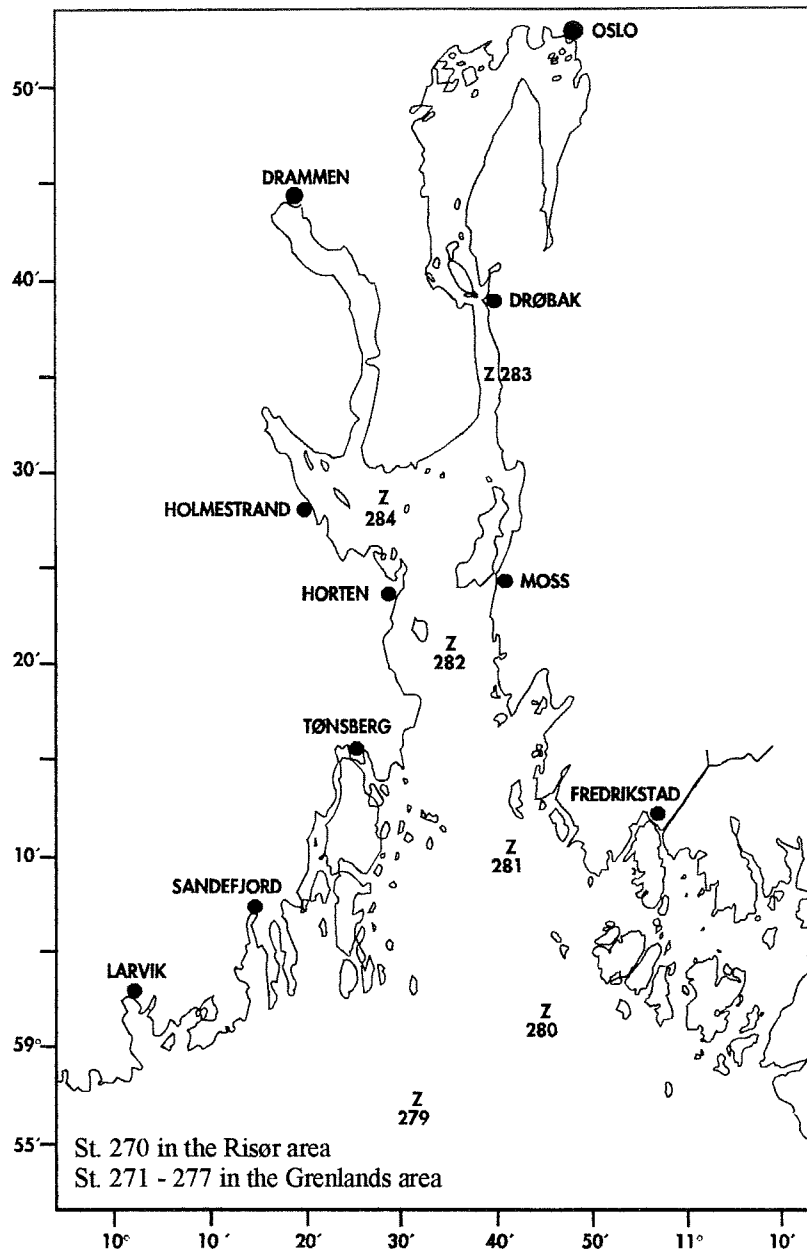
"G.M. Dannevig"



8 - 10 June 2002
 Cruise no 2002322

z CTD st.no 239 - 252

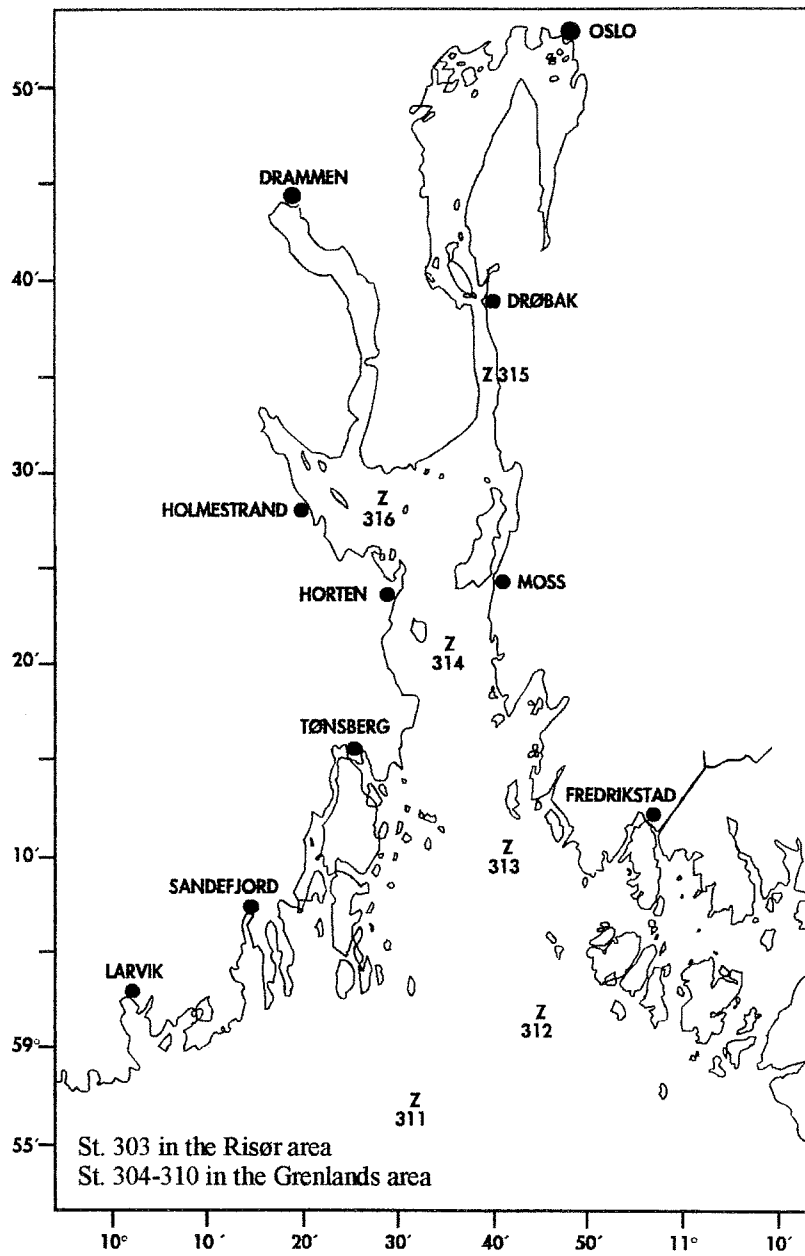
"G.M.Dannevig"



27 - 28 June 2002
 Cruise no 2002325

z CTD st.no 270 - 283

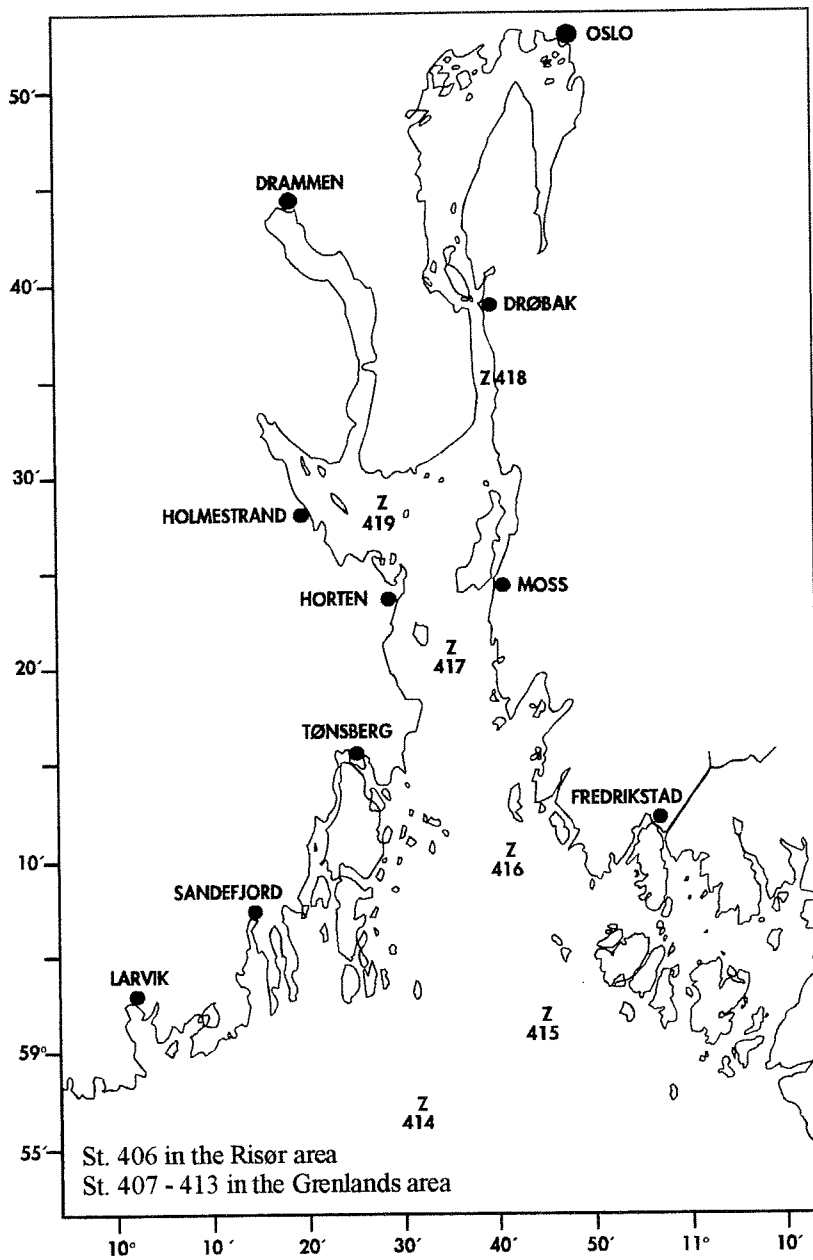
"G.M.Dannevig"



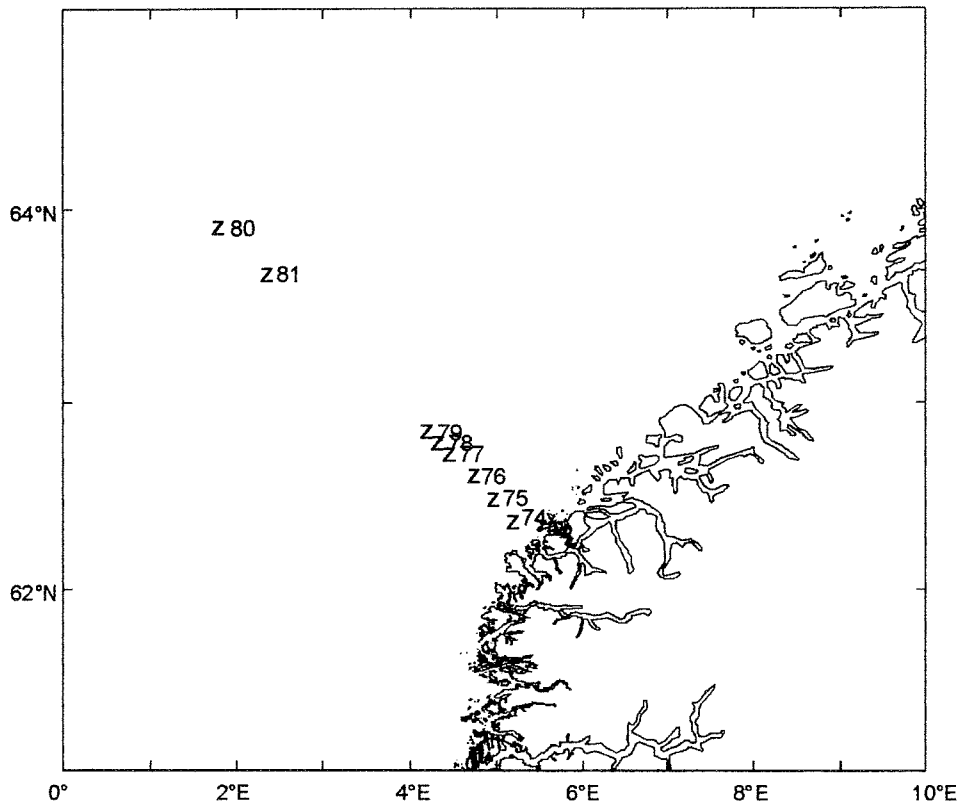
5 - 6 August 2002
 Cruise no 2002328

z CTD st.no 303 - 316

"G.M.Dannevig"

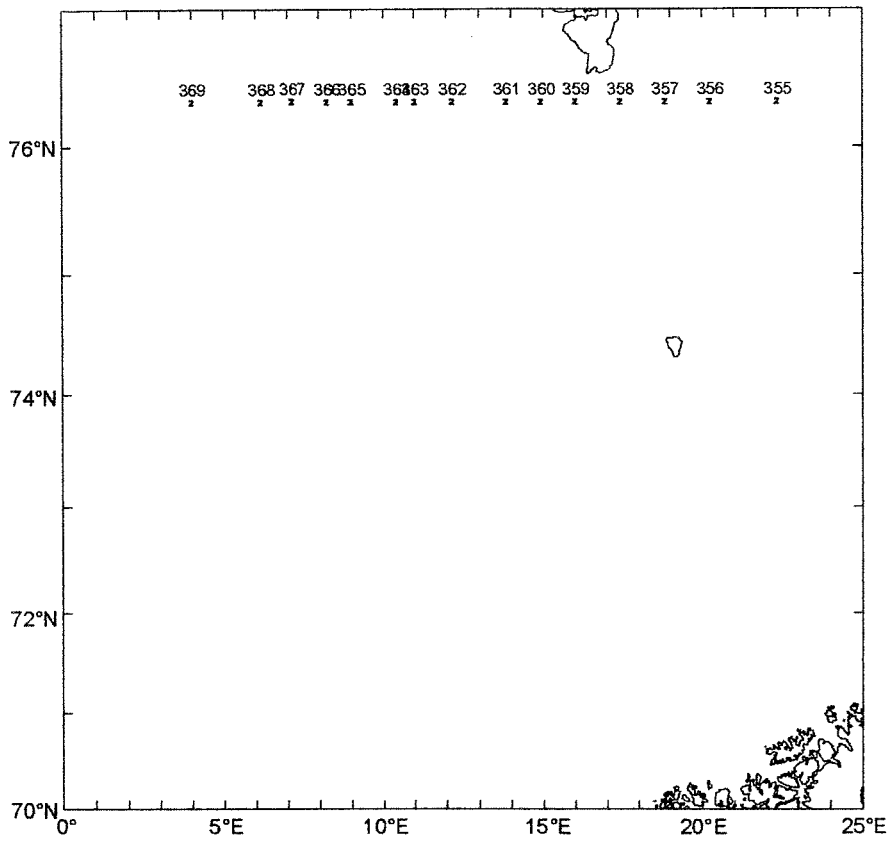


16 - 17 October 2002 z CTD st.no 406 - 419 "G.M.Dannevig"
 Cruise no 2002335



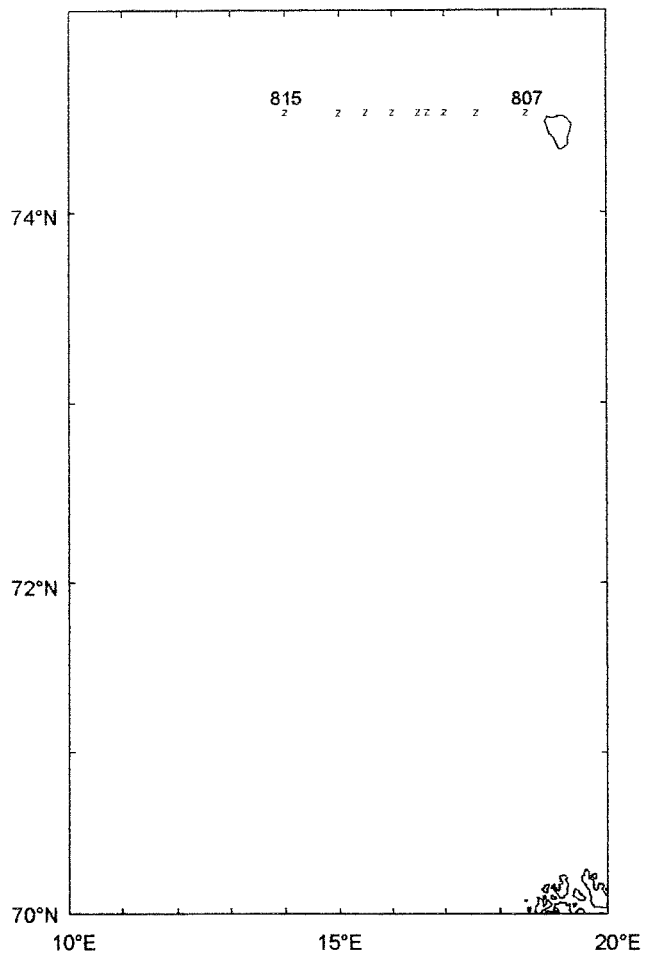
4 - 10 March 2002
Cruise no 2002605

Standard section, Svinøy NW "Håkon Mosby"
z St.no 74-81

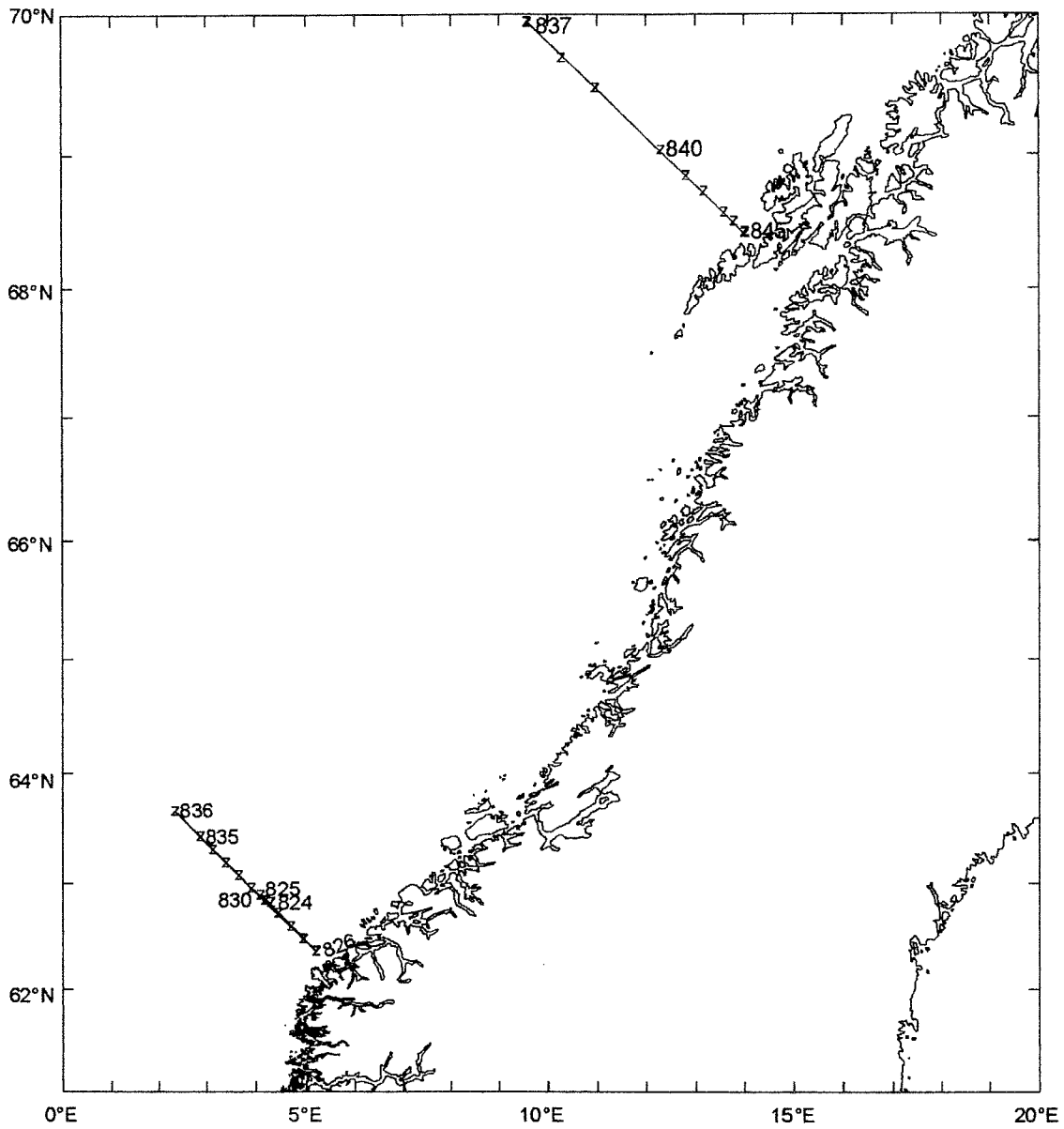


4 - 15 August 2002
Cruise no 2002617

Standard section: Sørkapp W "Håkon Mosby"
z St.no 355 - 369



18 - 30 October 2002 Standard section Bjørnøya W "Håkon Mosby"
Cruise no 2002622 z St.no 807 - 815



2 - 10 November 2002
Cruise no 2002623

z St.no 824-845
Standard sections Svinøy NW: st.no 824-836
Gimsøy NW: st.no 837-845

"Håkon Mosby"