

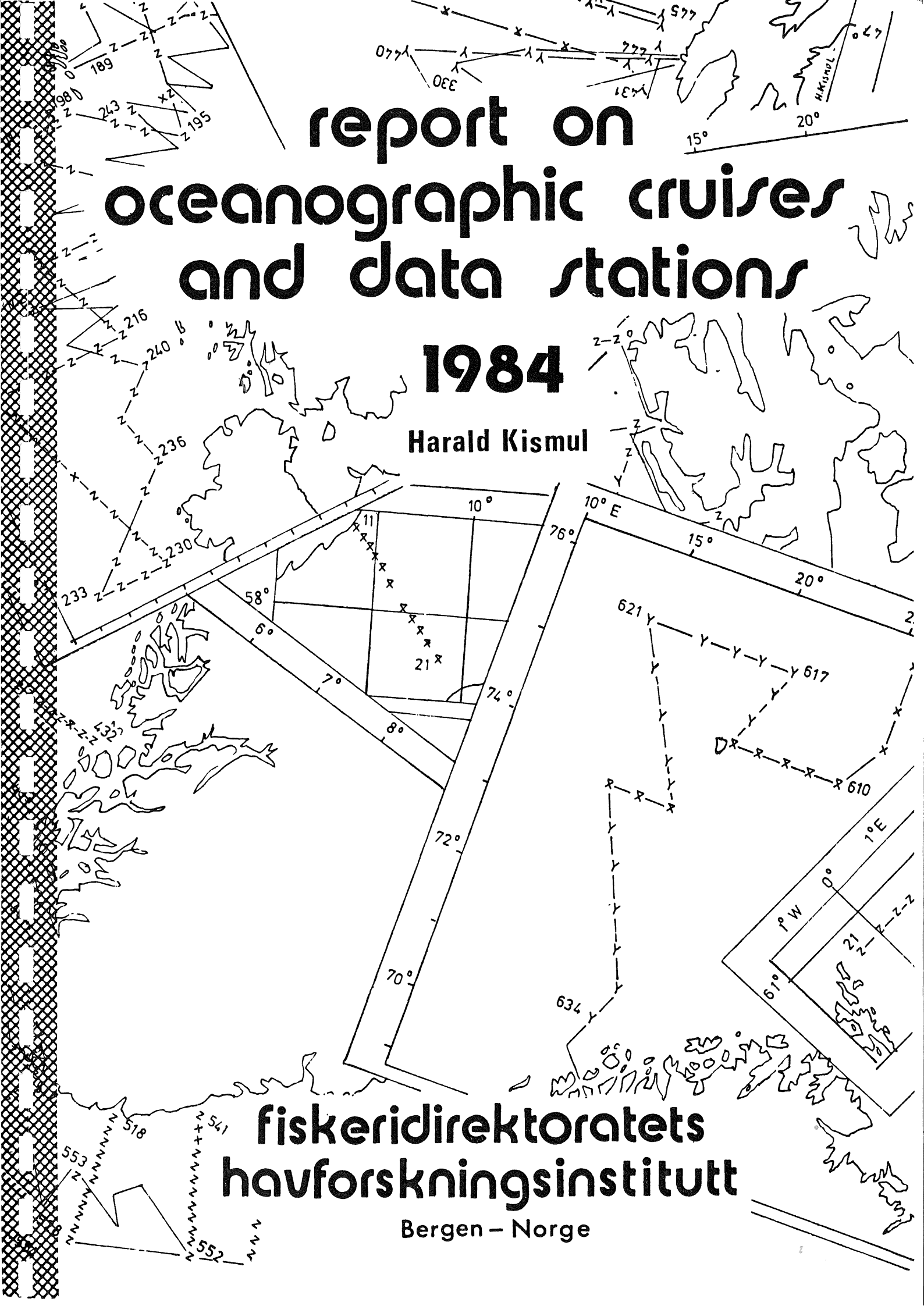
report on oceanographic cruises and data stations

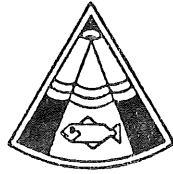
1984

Harald Kismul

fiskeridirektoratets
havforskningsinstitutt

Bergen - Norge





report on oceanographic cruises and data stations

Harald Kismul

Guidelines:

- X Classical oceanogr. stations
- Z Vertical profiles (STD/CTD)
- Y Bathythermograph (BT)
- △ Moored buoy station
- △ Pelagic Trawl station
- Bottom Trawl station
- ◇ Plankton station
- Clarke
- Taggings
- Λ Surface observations t°C S‰
- ⌘ ZTD Rosette Multi-bottle Array

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ICES Annual Report on Oceanographic Cruises and Data Stations.

Country: NORWAY

Year: 1984

Ship: Michael Sars

Cruise and ship number.	Period of cruises	Number of Stations														Continual observations						Page of track chart						
		Classical oceanogr. stations	Vertical profiles (STD/CTD)	Suspended solids	Moored Buoy	Oxygen	Nitrates and Phosphates	Optics	Petroleum residues	Squid jigging	Core-Soft Bottom	Petrop plank. pigment con.	Sediment samples	Pelagic Trawl	Bottom Trawl	Pelagic eggs and larvae	Taggings	Zooplankton	Phytoplankton	Surface temperature	Transparency		Organic matter (extract.)	Part. matter (filtration)	NO ₂ + NO ₃ (auto-analyzer)	Echo sounding	Echo integration	
1/11	8/1-26/1		13											20	11						X	X				X	X	22
2/11	1/2-29/2		66											19	2						X	X				X	X	23
3/11	5/3-29/3								9					25	14						X	X				X	X	24
4/11	2/4-16/4		29											10	12		152				X	X				X	X	25-26-27
5/11	27/4-21/5		12											9	139						X	X				X	X	28
6/11	25/5-11/6		2											11			212	213			X	X				X	X	29
7/11	15/6-25/6	1	66											1		67	67				X	X				X	X	30
8/11	20/7-18/8														143						X	X				X	X	31
9/11	21/8-31/8													21	14						X	X				X	X	32
10/11	5/9-25/9		116											36	1						X	X				X	X	33
11/11	15/10-19/10		66												67						X	X				X	X	34
12/11	22/10-30/10	15	30											26							X	X				X	X	35
13/11	2/11- 7/11		61	13								22									X	X				X	X	36-37-38
14/11	15/11- 5/12		35											34	2						X	X				X	X	39-40

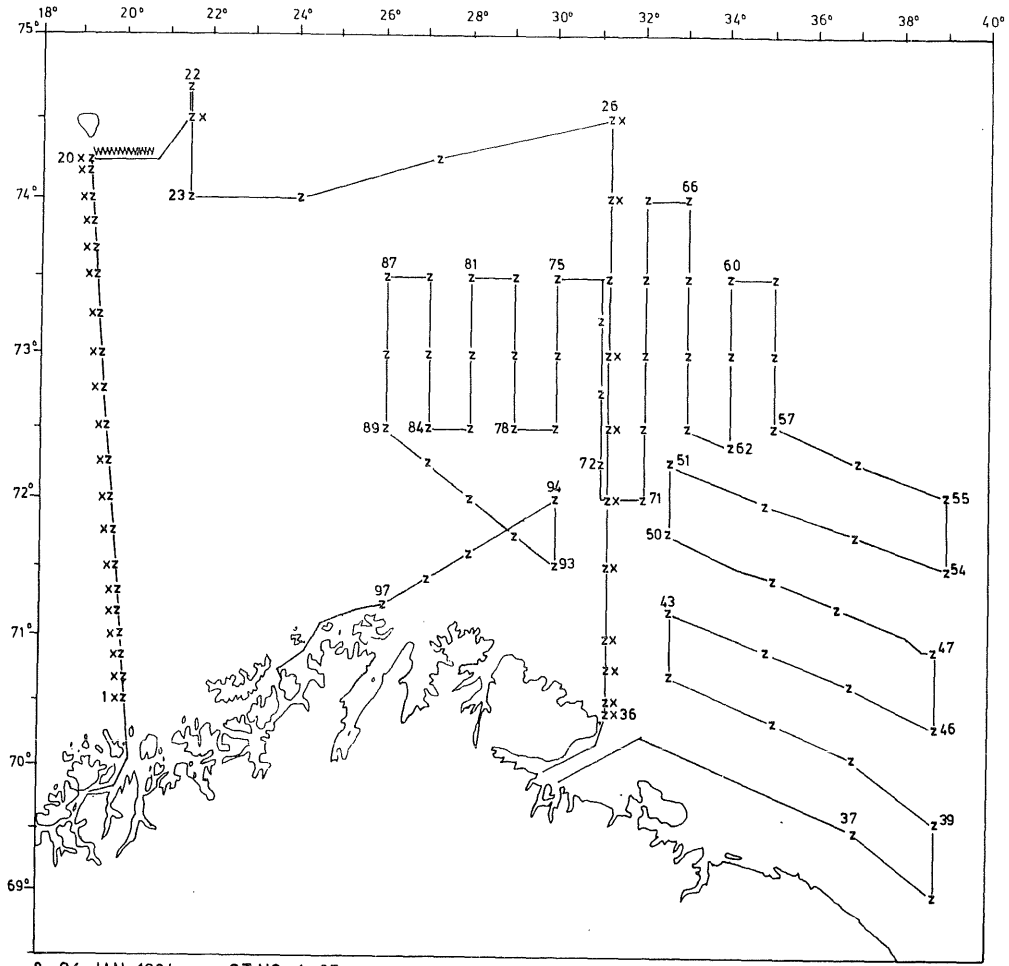
ICES Annual Report on Oceanographic Cruises and Data Stations.

Country: NORWAY

Year: 1984

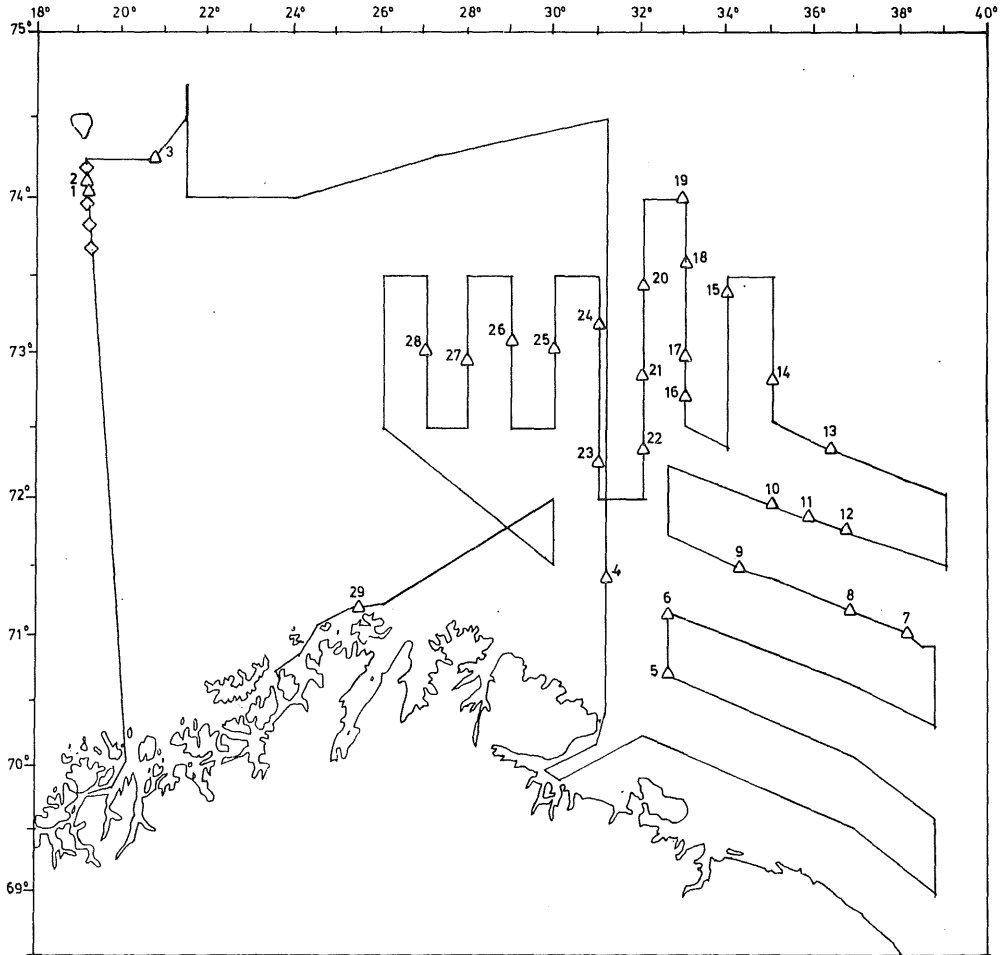
Ship: ELDJARN

Cruise and ship number.	Period of cruises	Number of Stations														Continual observations				Page of track chart							
		Classical oceanogr. stations	Vertical profiles (STD/CTD)	Bathythermograph (BT)	Moored Buoy	Argos Buoy	Nutrients	Oil Hydrocarbons	Petroleum residues	Metals	Primary org. prod.	Petroplank. pigment con.	Sediment samples	Pelagic Trawl	Bottom Trawl	Pelagic eggs and larvae	Taggings	Zooplankton	Phytoplankton		Surface temperature	Transparency	Organic matter (extract.)	Part. matter (filtration)	NO ₂ + NO ₃ (auto-analyzer)	Echo sounding	Echo integration
1/14	25/1-16/2		122																	X	X				X	X	41-42
2/14	20/2- 8/3		30											13						X	X				X	X	43
3/14	11/3-17/3	49	57												20					X	X				X	X	44
4/14	19/3- 2/4		97												22					X	X				X	X	45
5/14	1/4- 9/4		161												3					X	X				X	X	46-47
6/14	10/4-18/4		113														113			X	X				X	X	48
7/14	24/4- 5/5		48												18	11				X	X				X	X	49-50
8/14	6/5-18/5		301												9		301			X	X				X	X	51-52
9/14	19/5-26/6		153												90	2				X	X				X	X	53-54
10/14	27/6-31/7		246												19	25		15	151	X	X				X	X	55-56-57
11/14	1/8-18/8		99												52					X	X				X	X	58
12/14	19/8- 5/9		98												83					X	X				X	X	59
13/14	7/9- 3/10		127												1	107				X	X				X	X	60-61
14/14	4/10-14/11		151												14	144				X	X				X	X	62-63



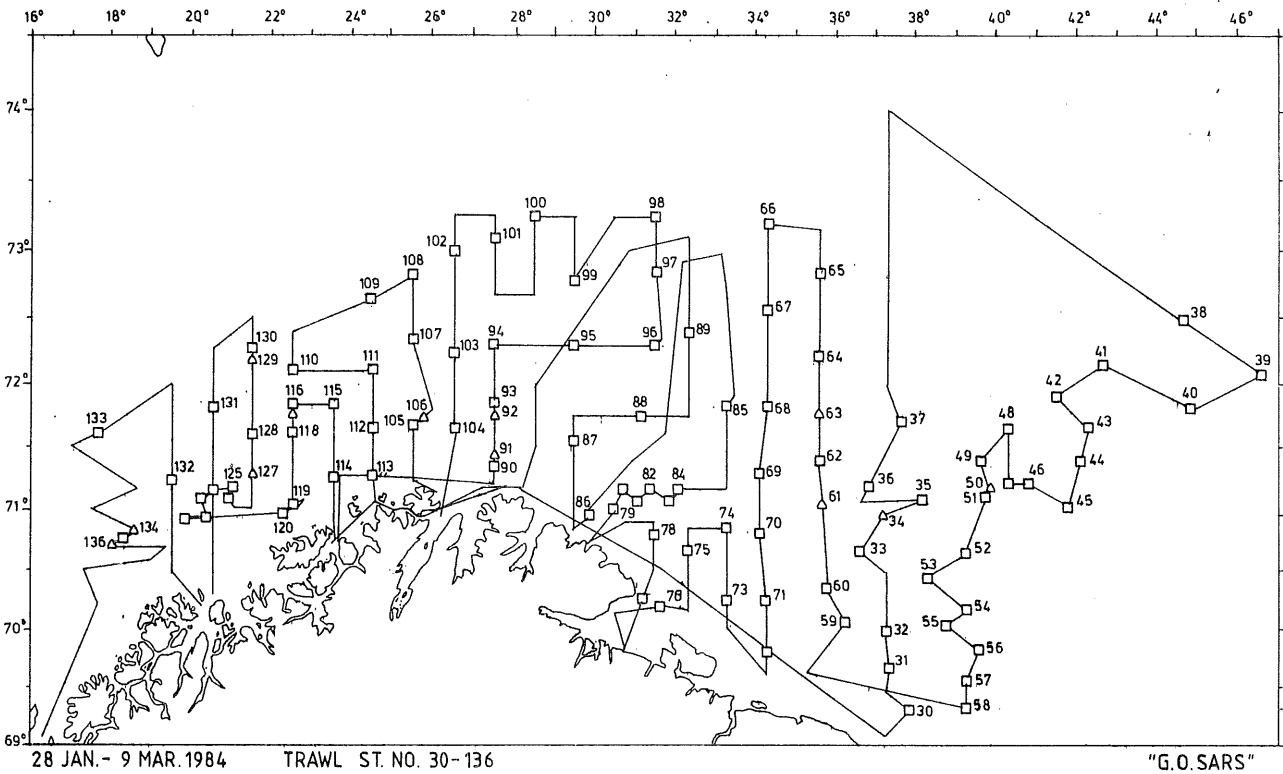
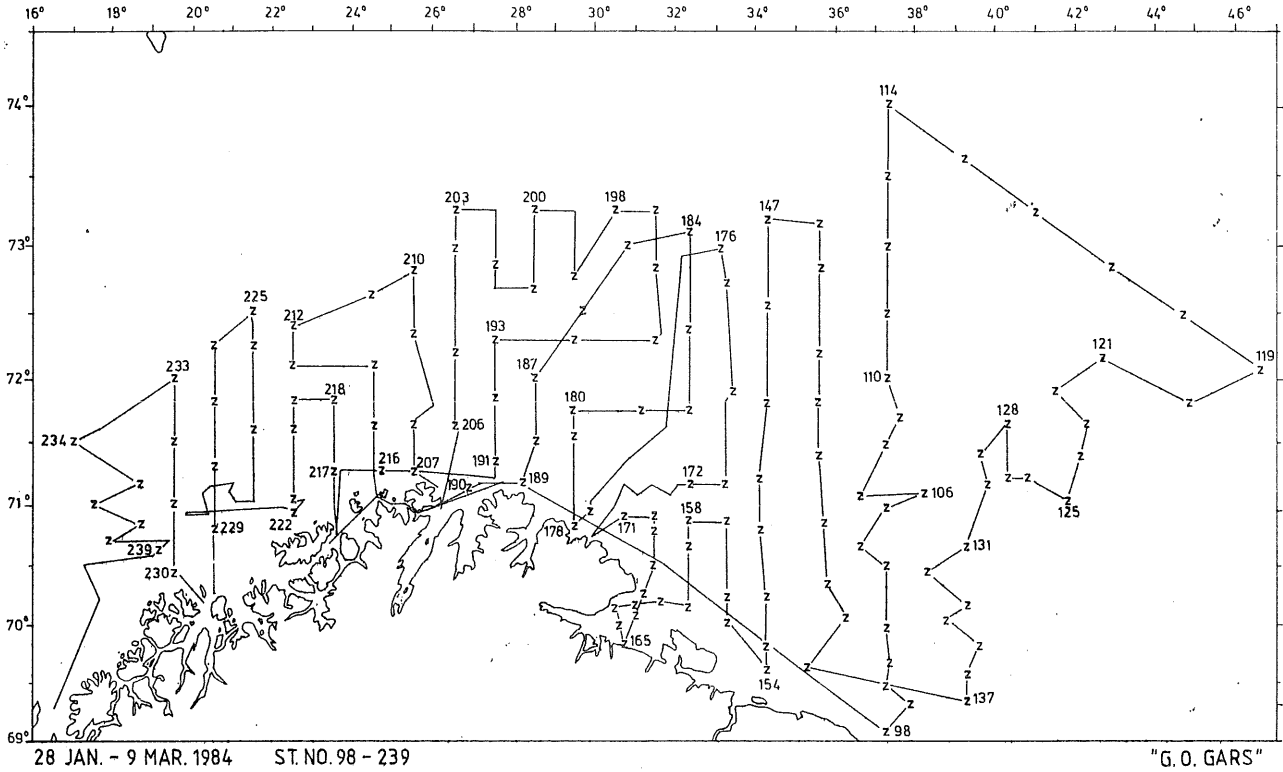
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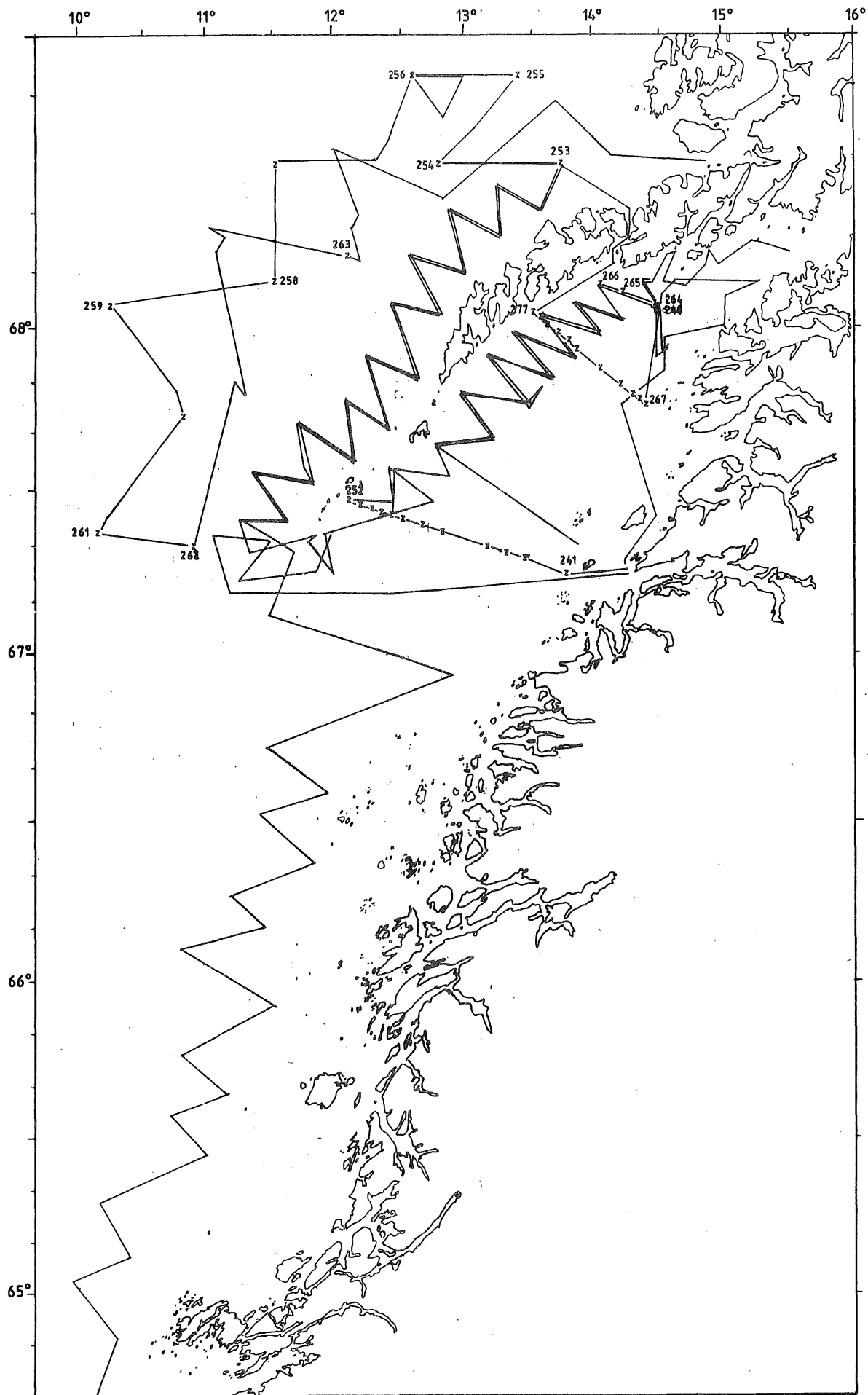
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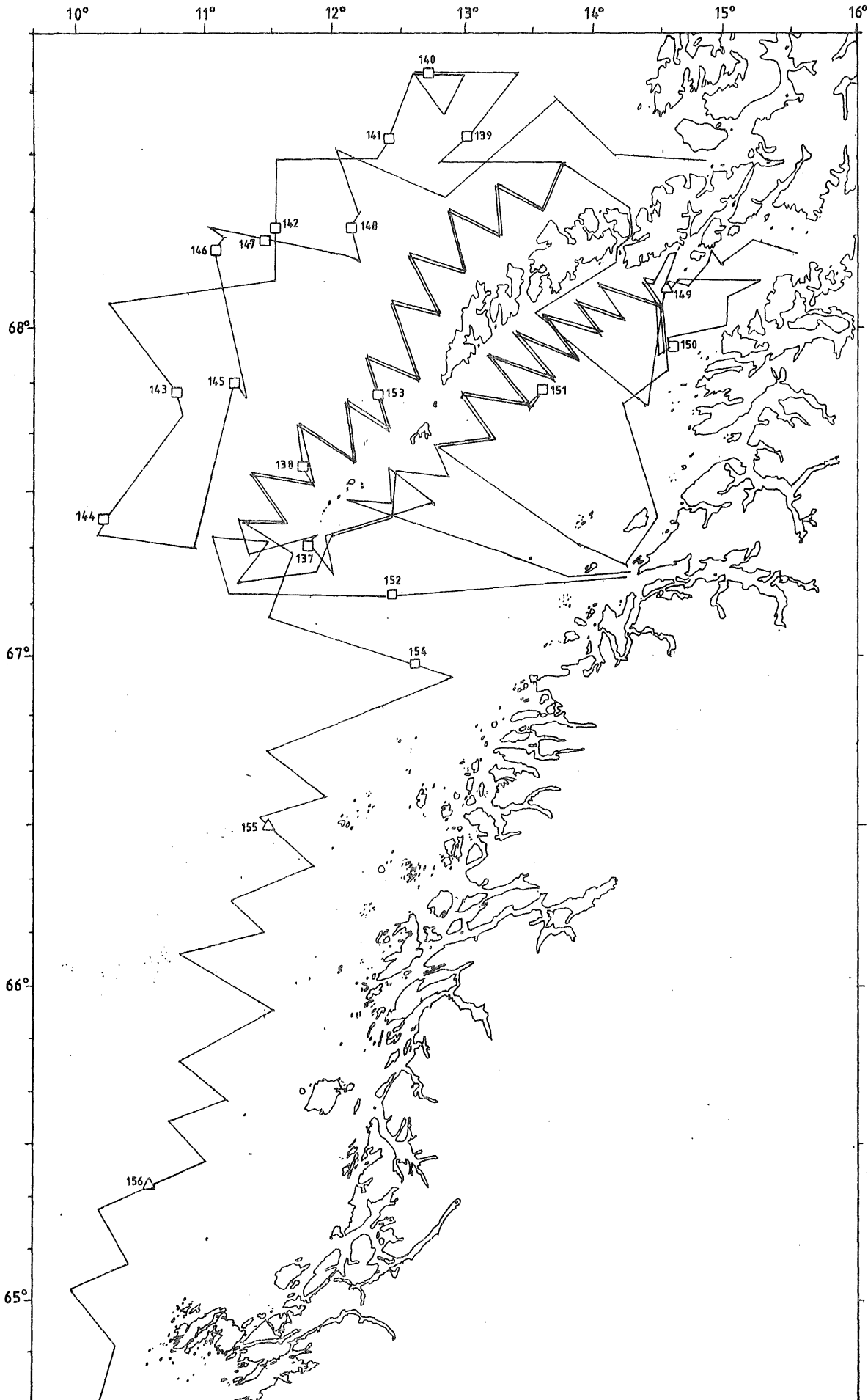


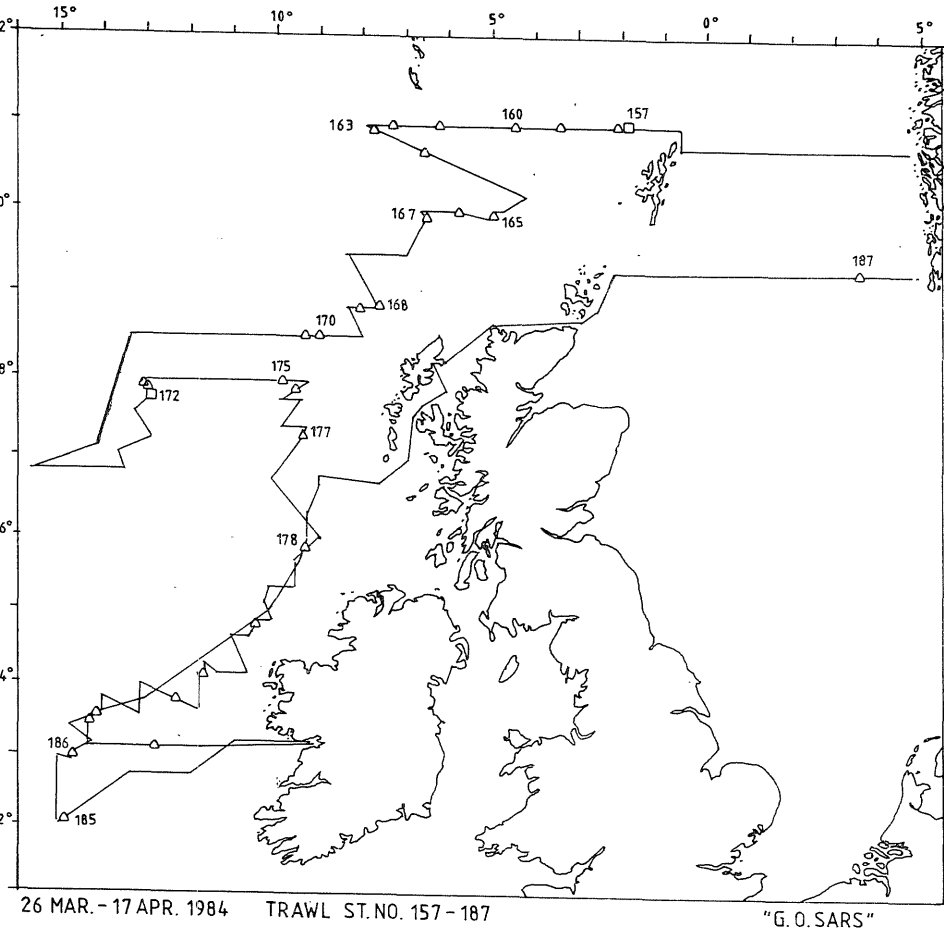
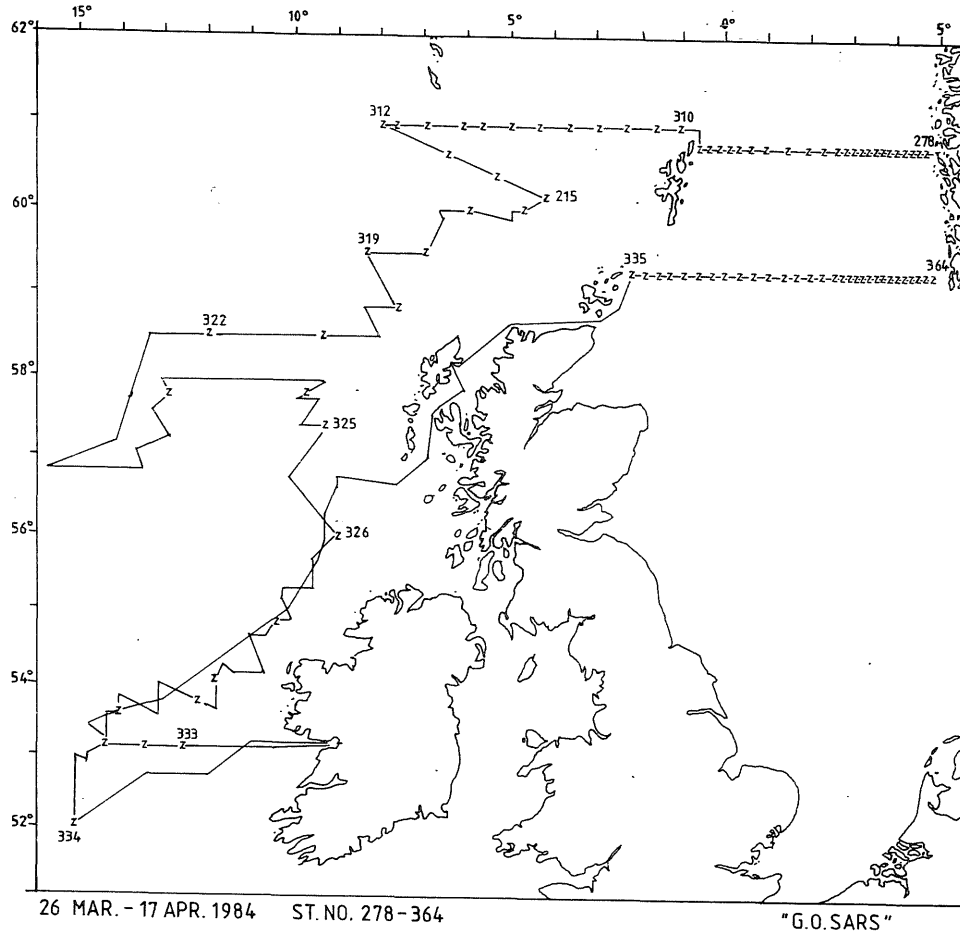
8-26 JAN. 1984 TRAWL ST.NO. 1-29 4 PLANKTON ST.

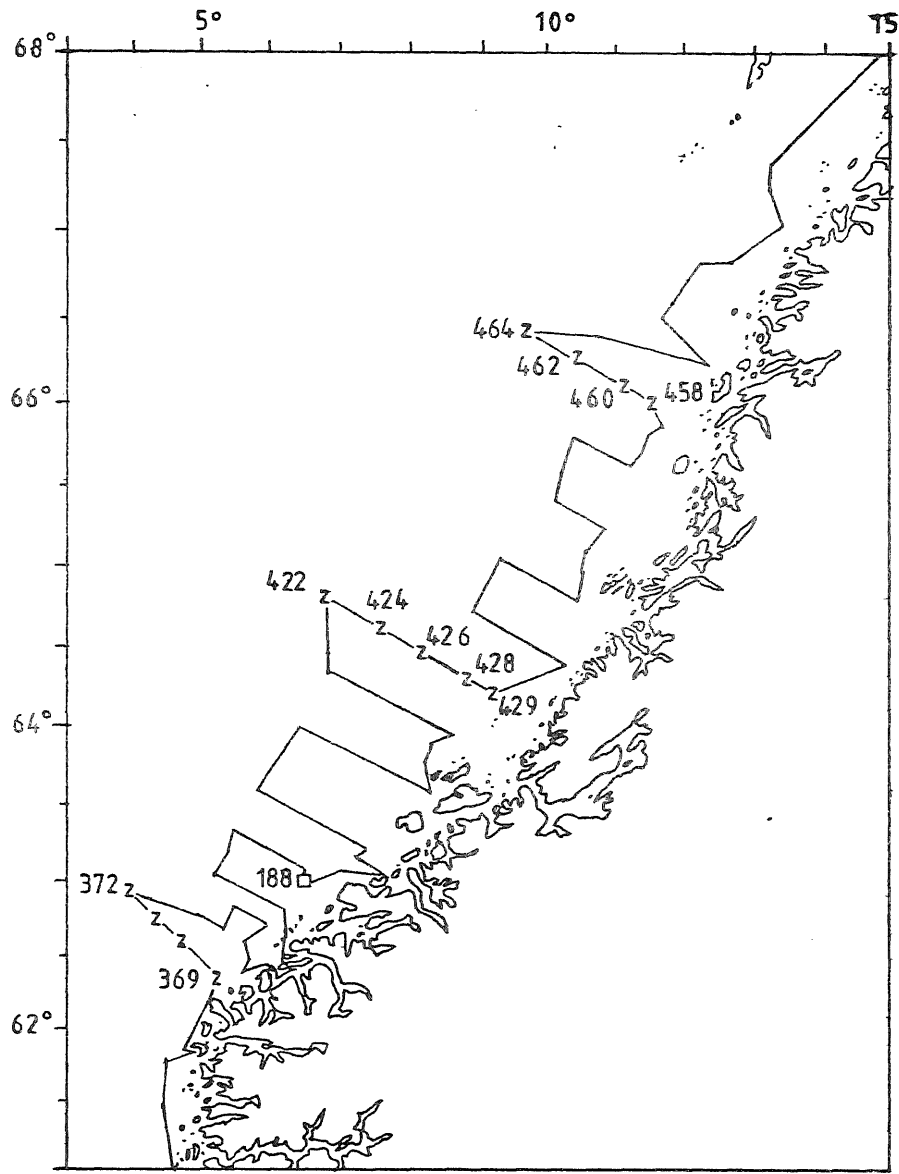
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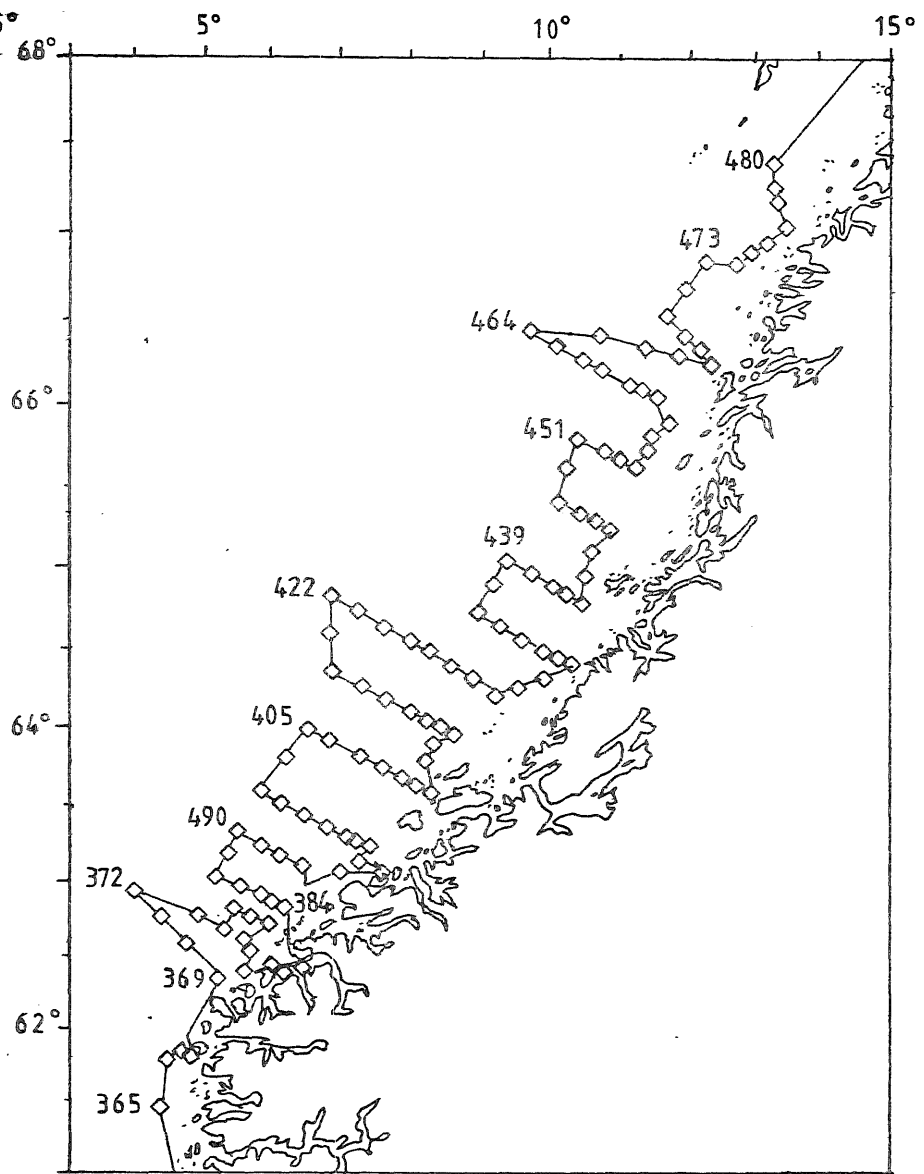






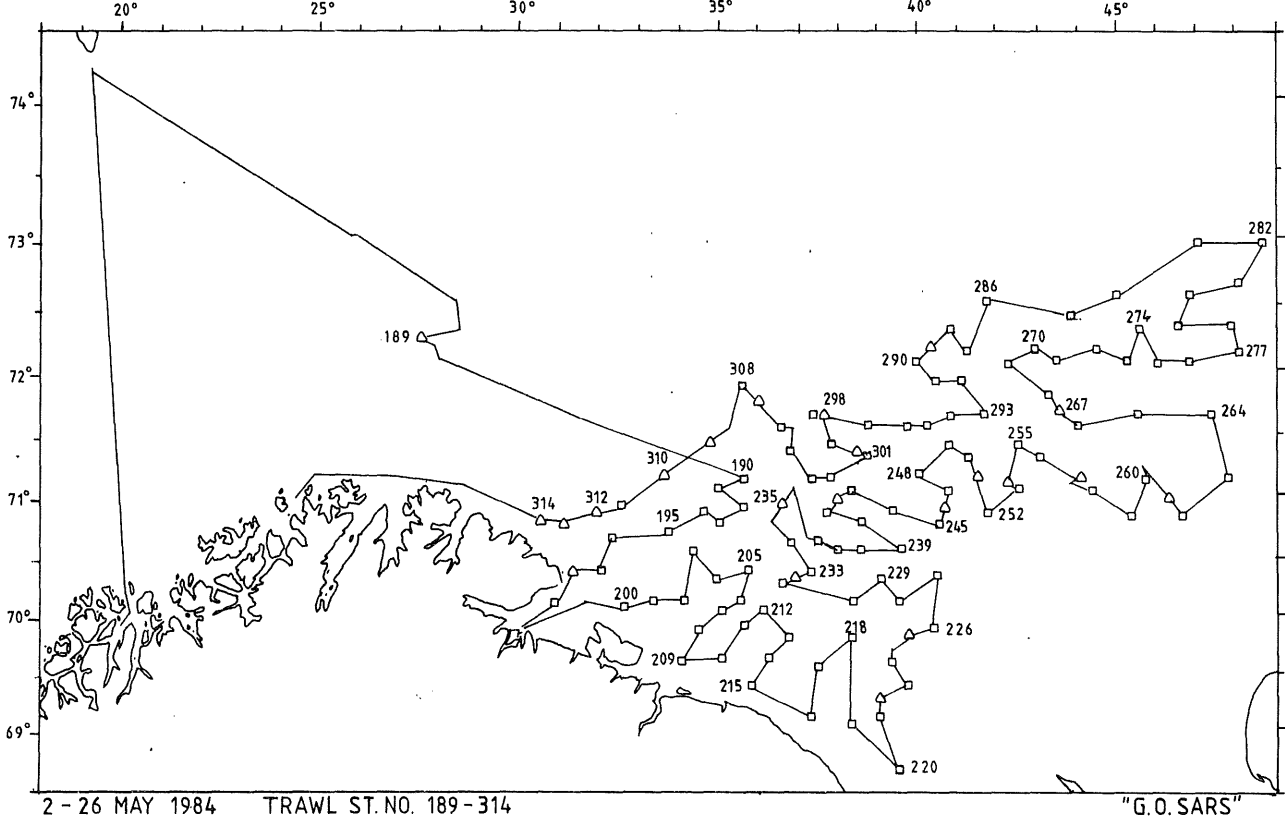
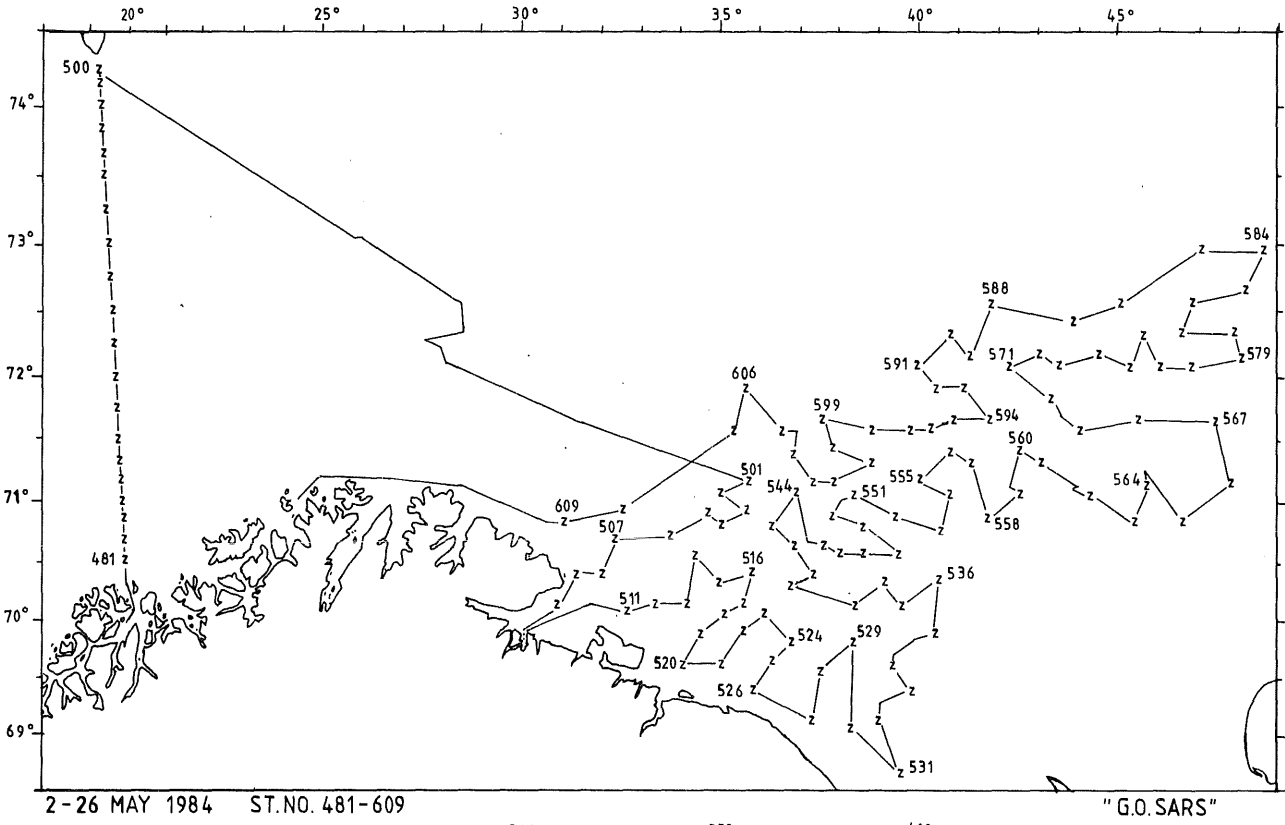


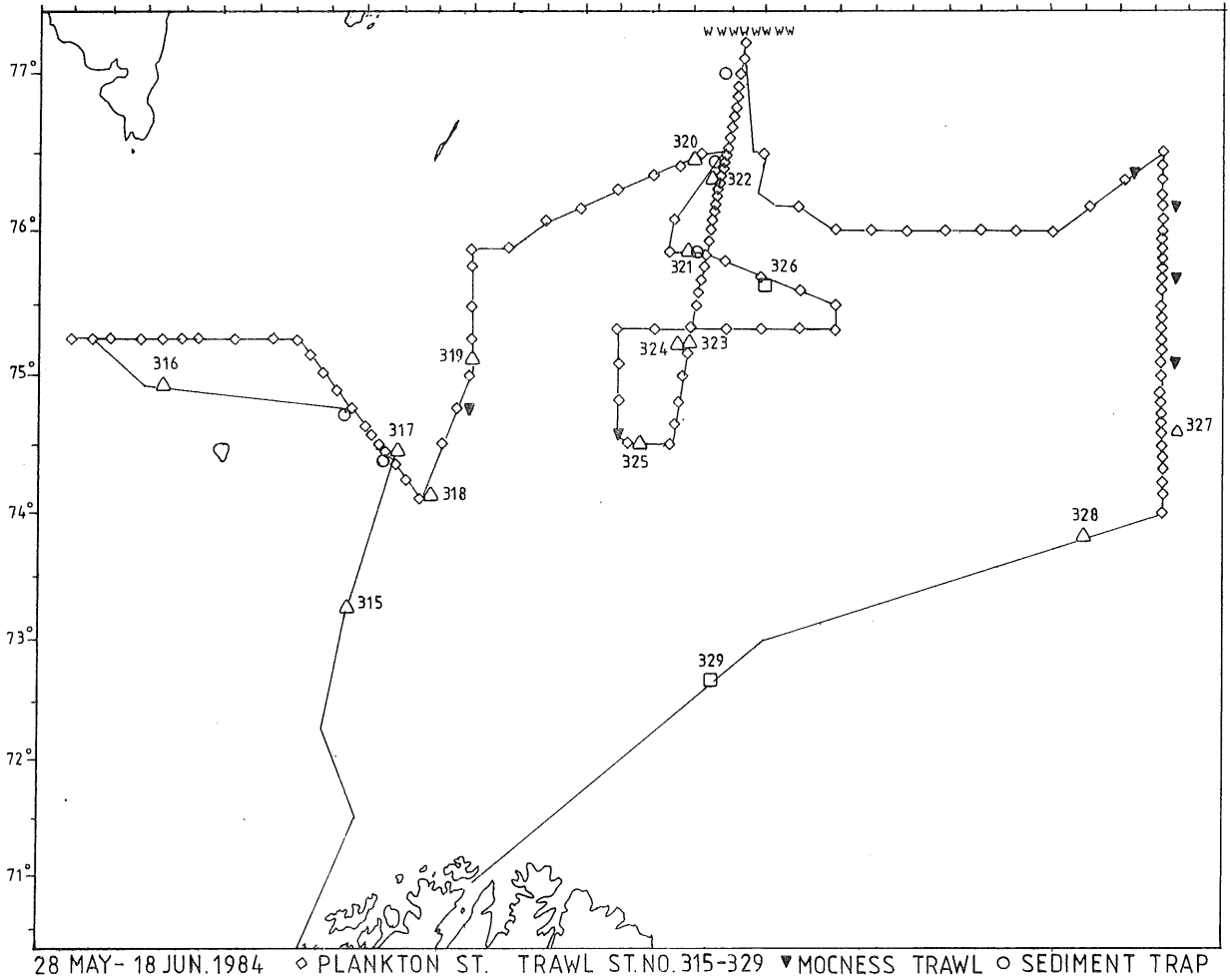
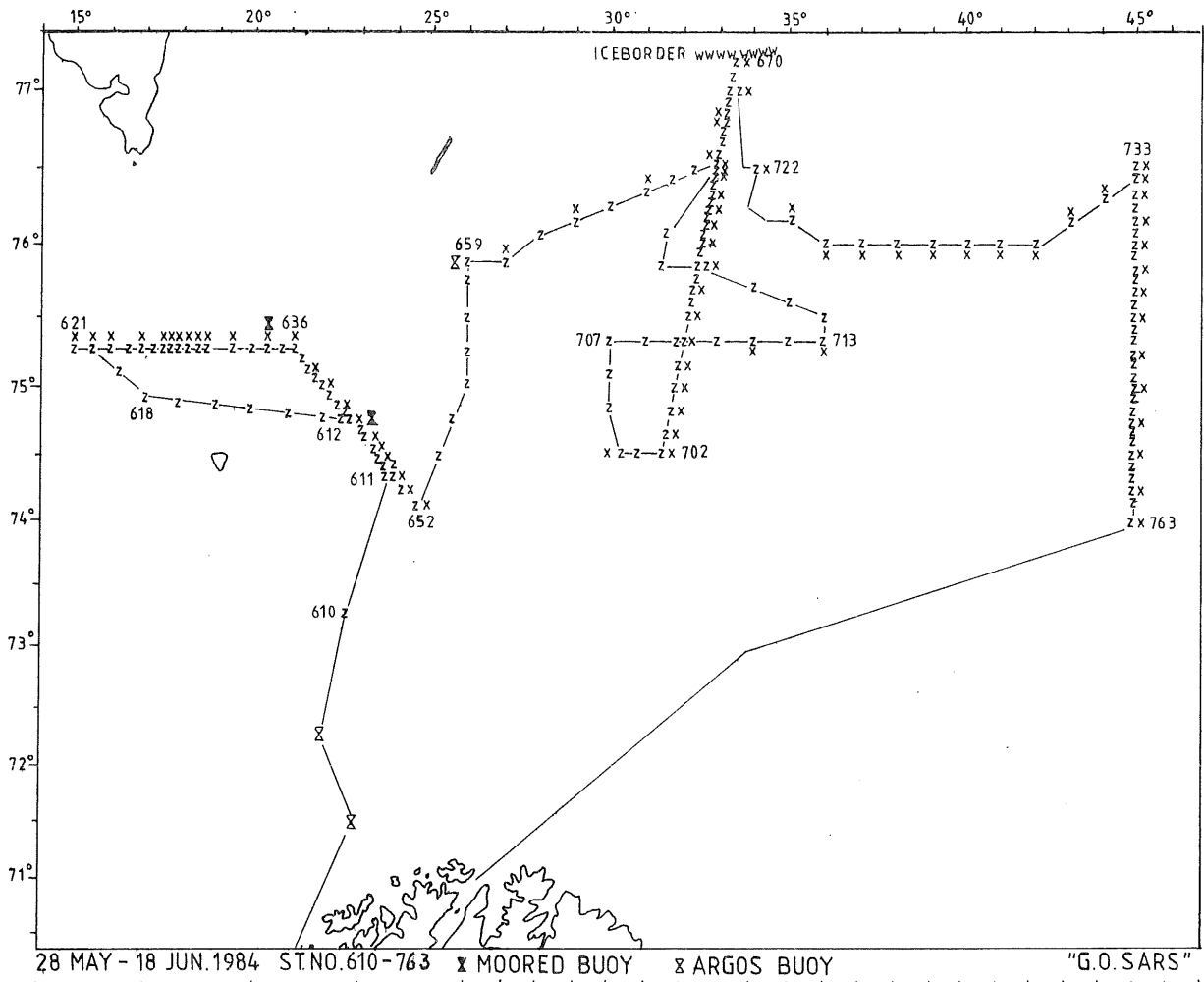
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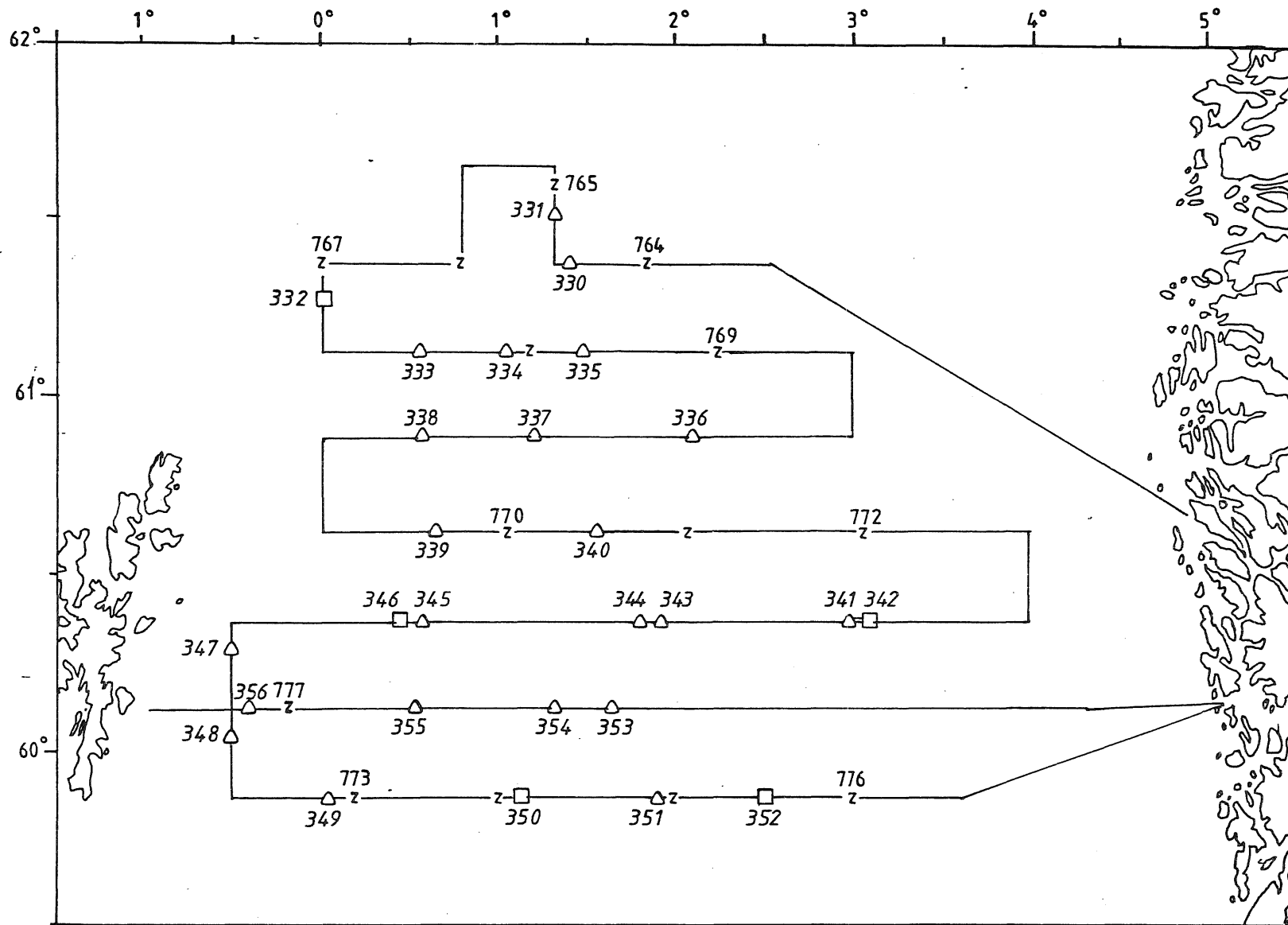


PLANKTON ST. NO. 365 - 480

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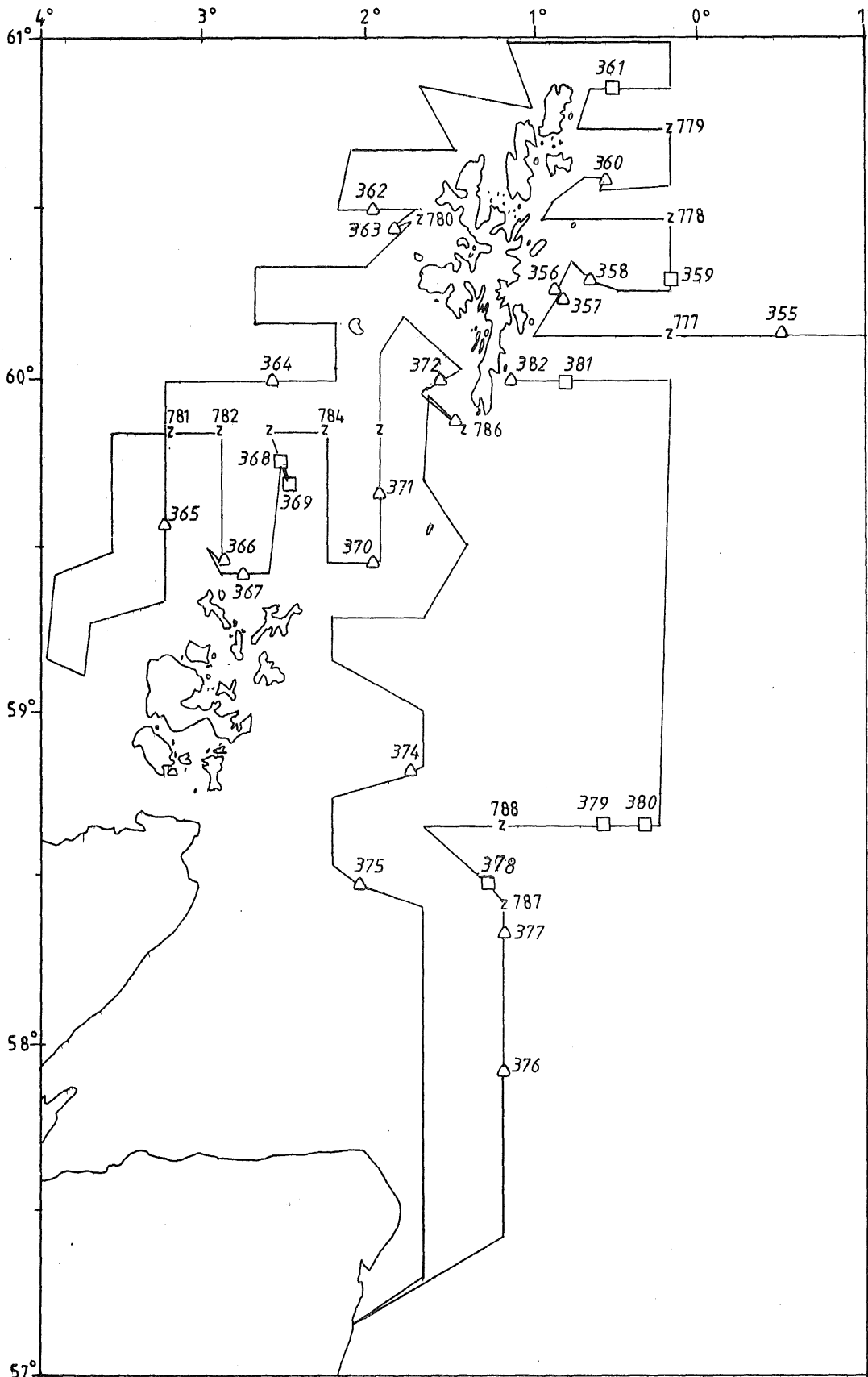




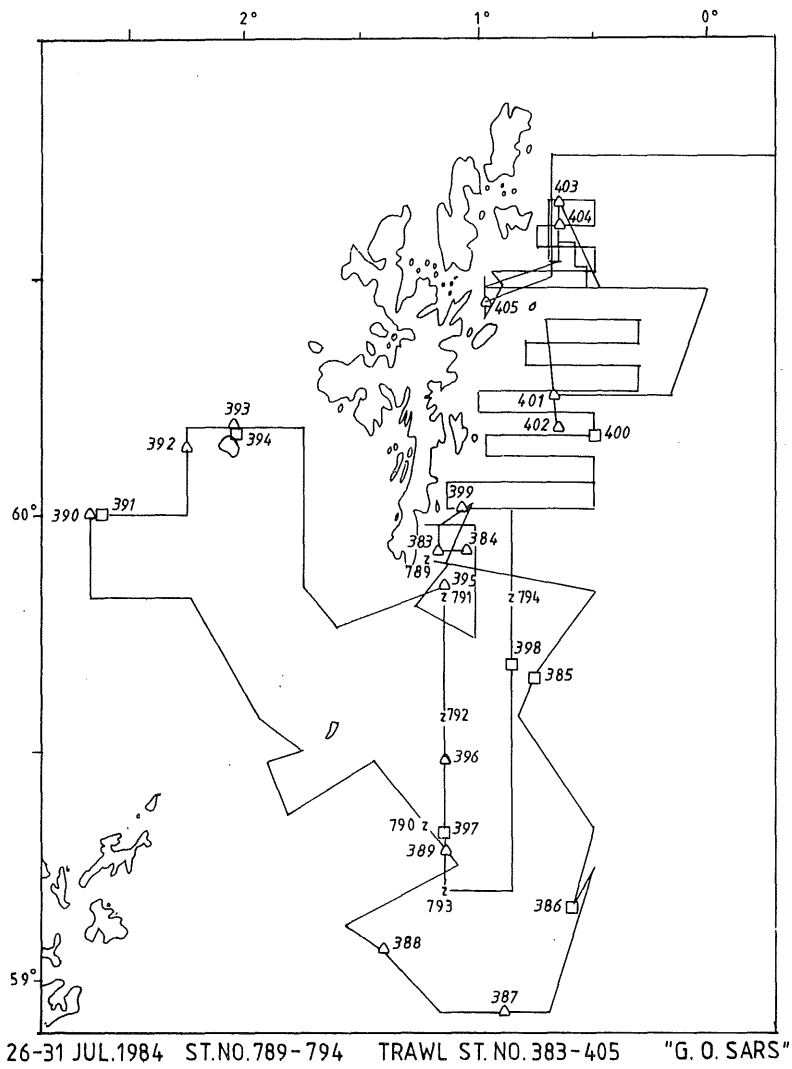


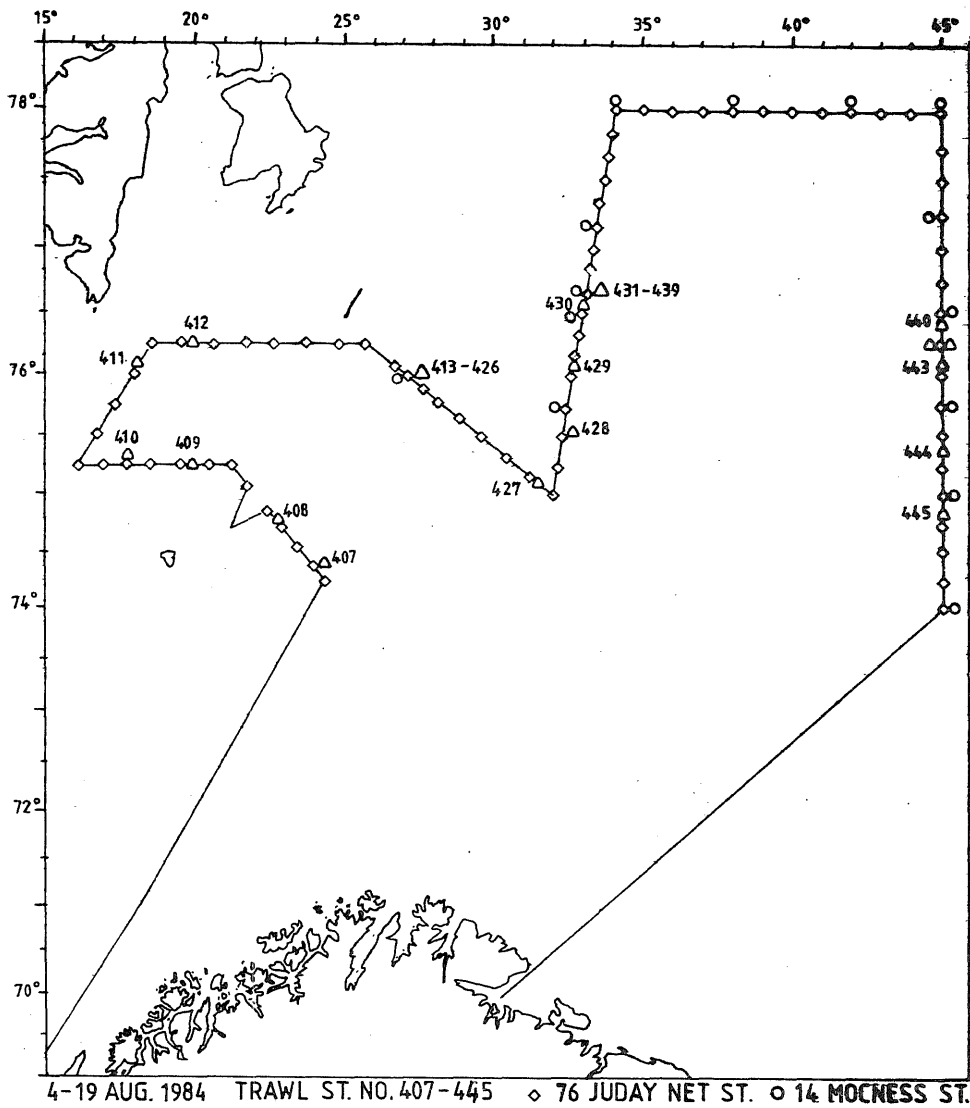
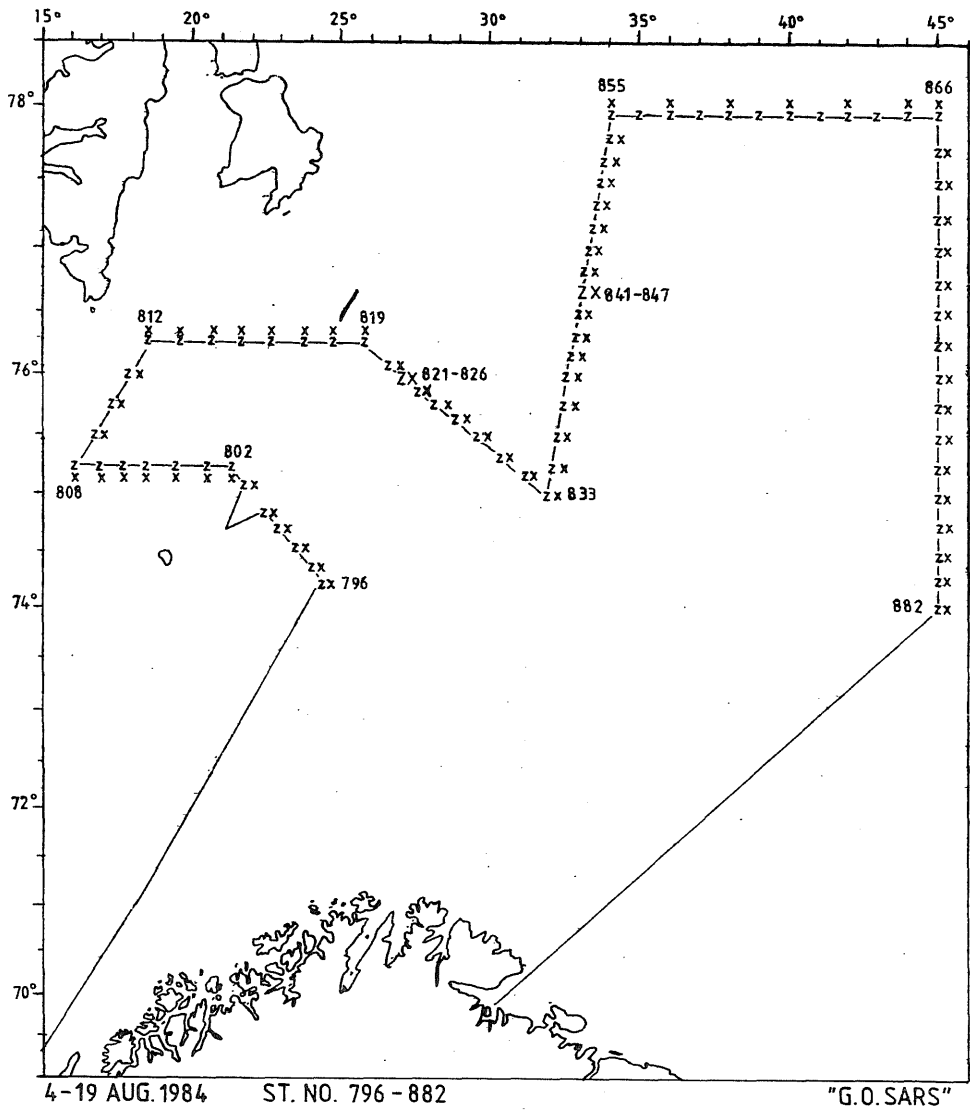
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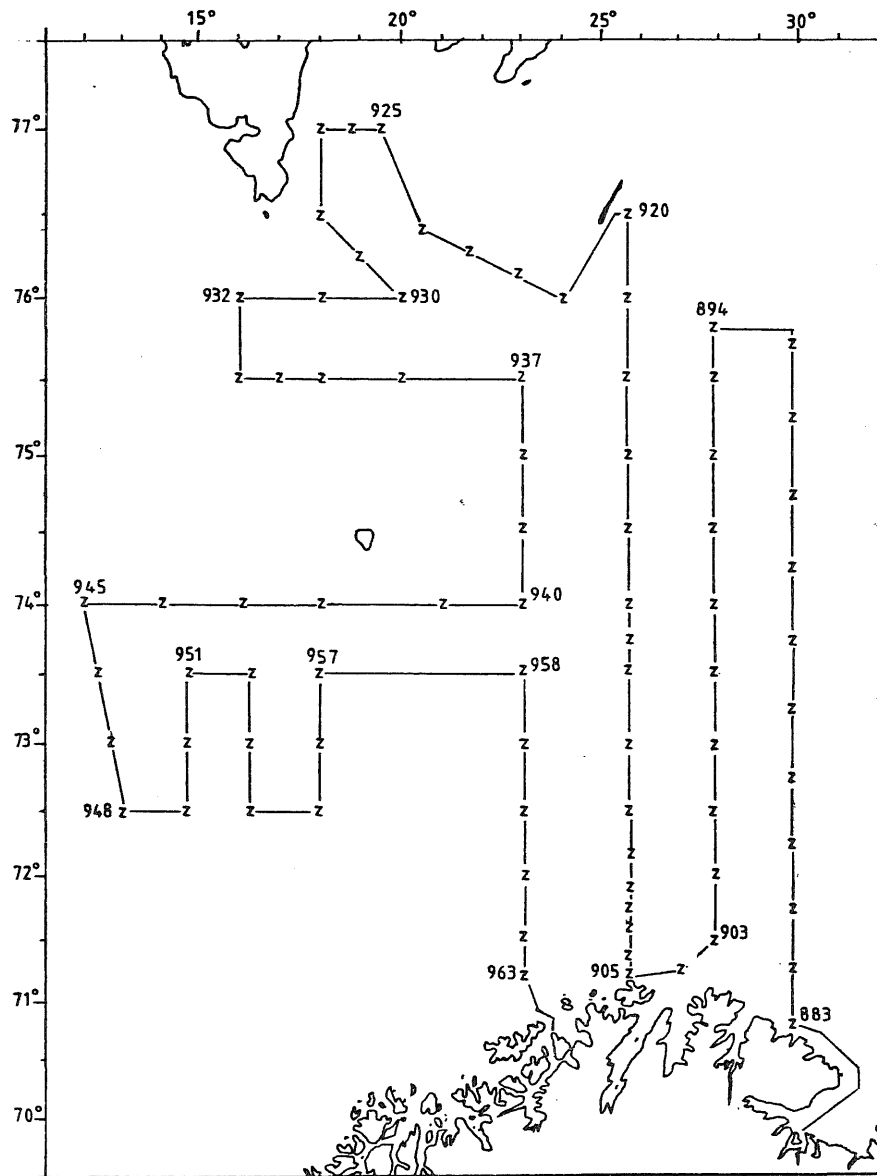
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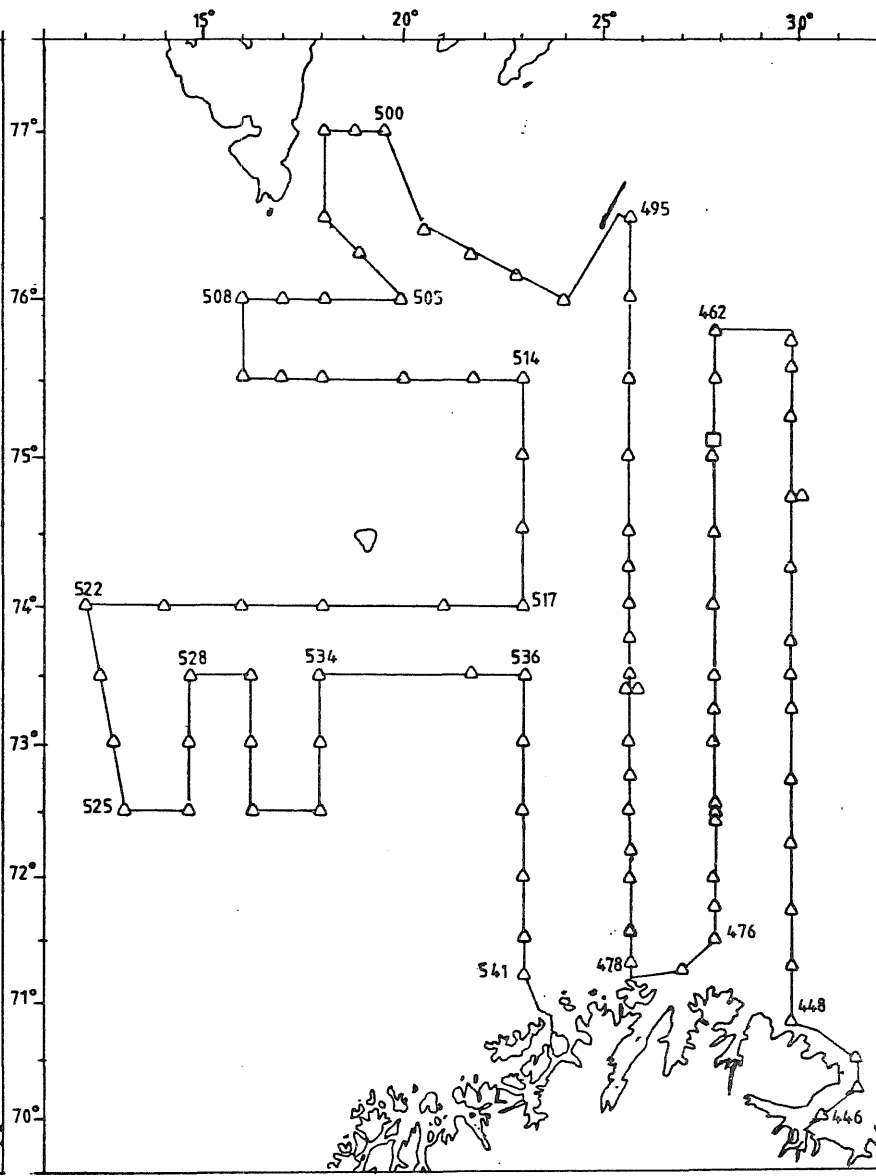
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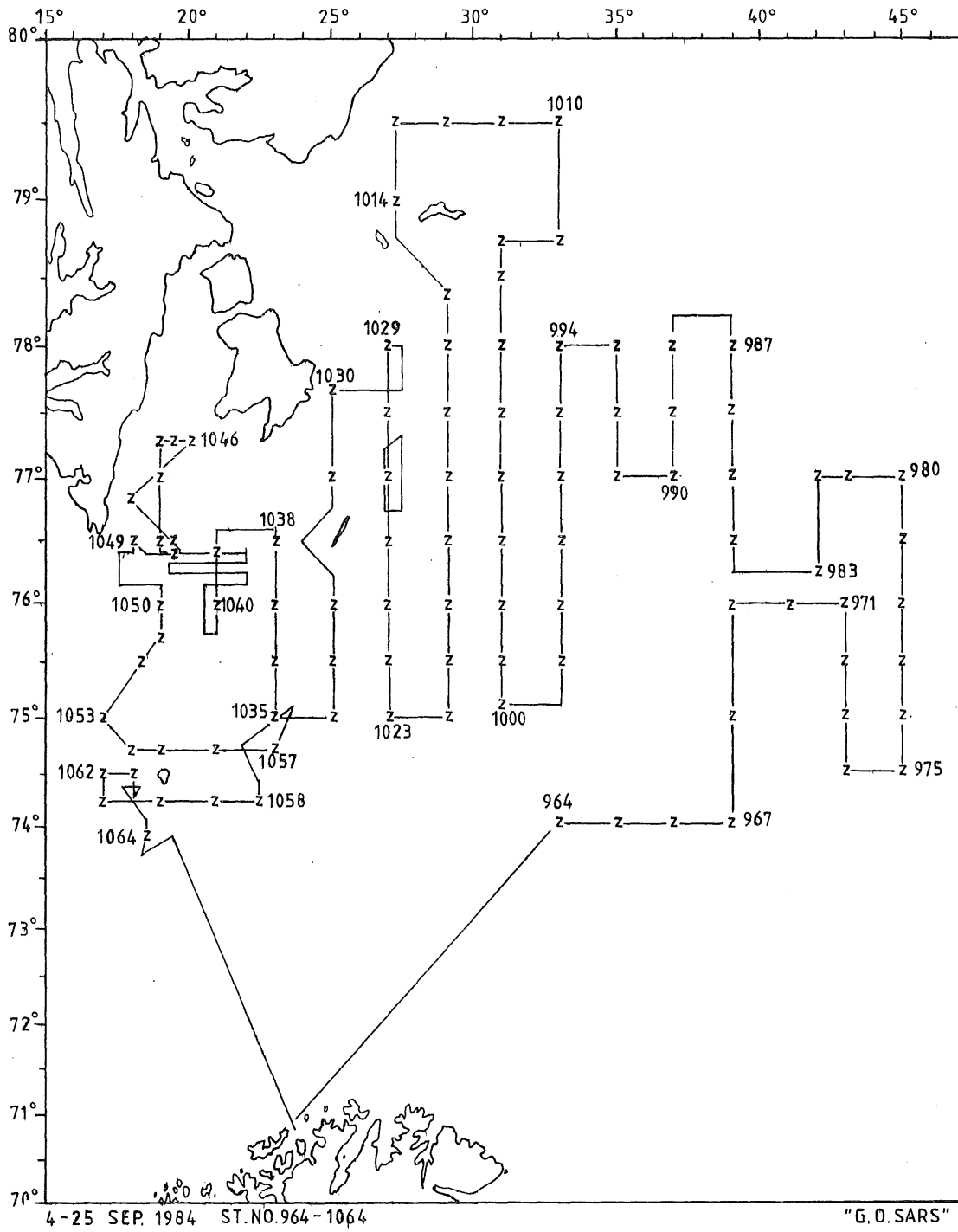


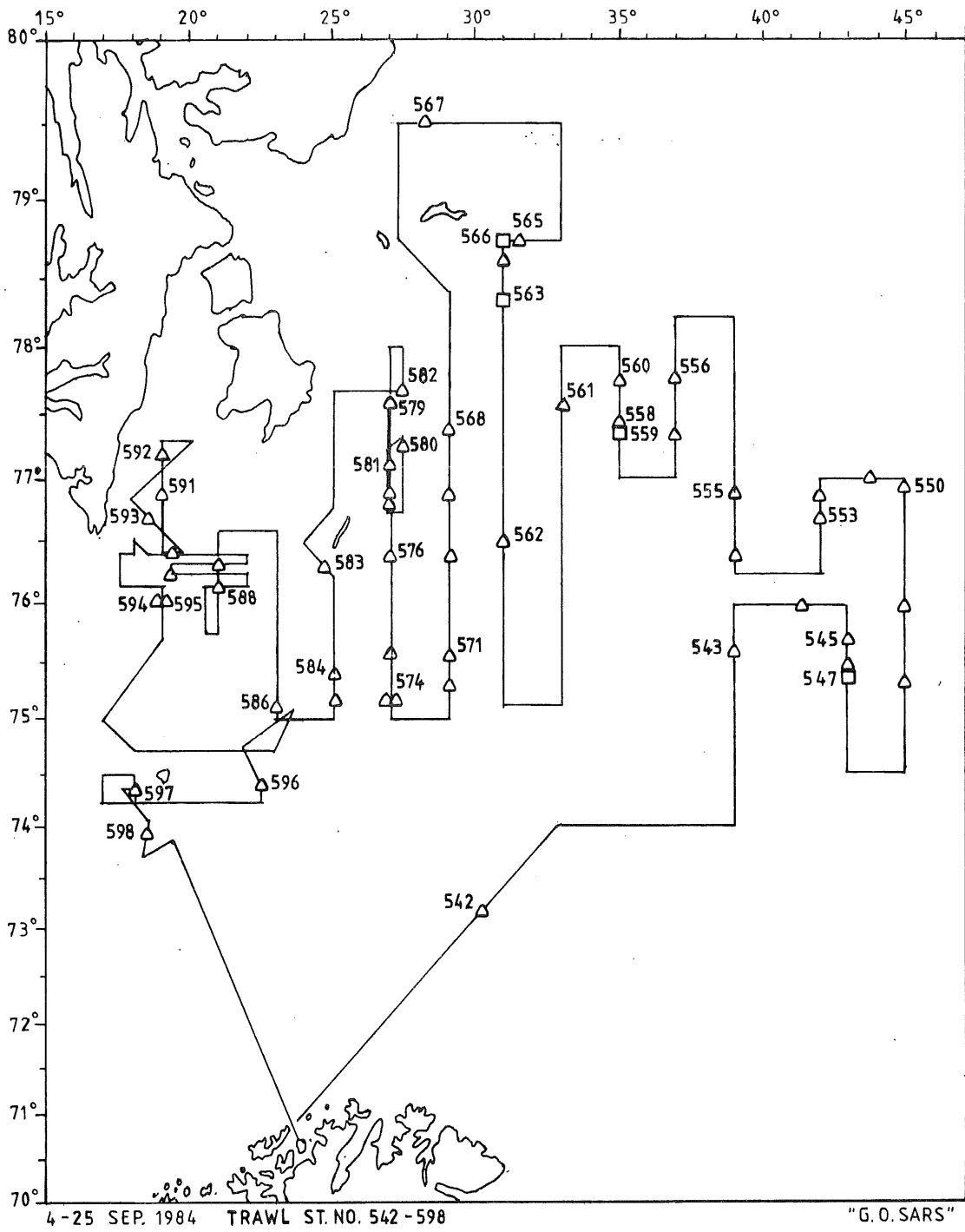


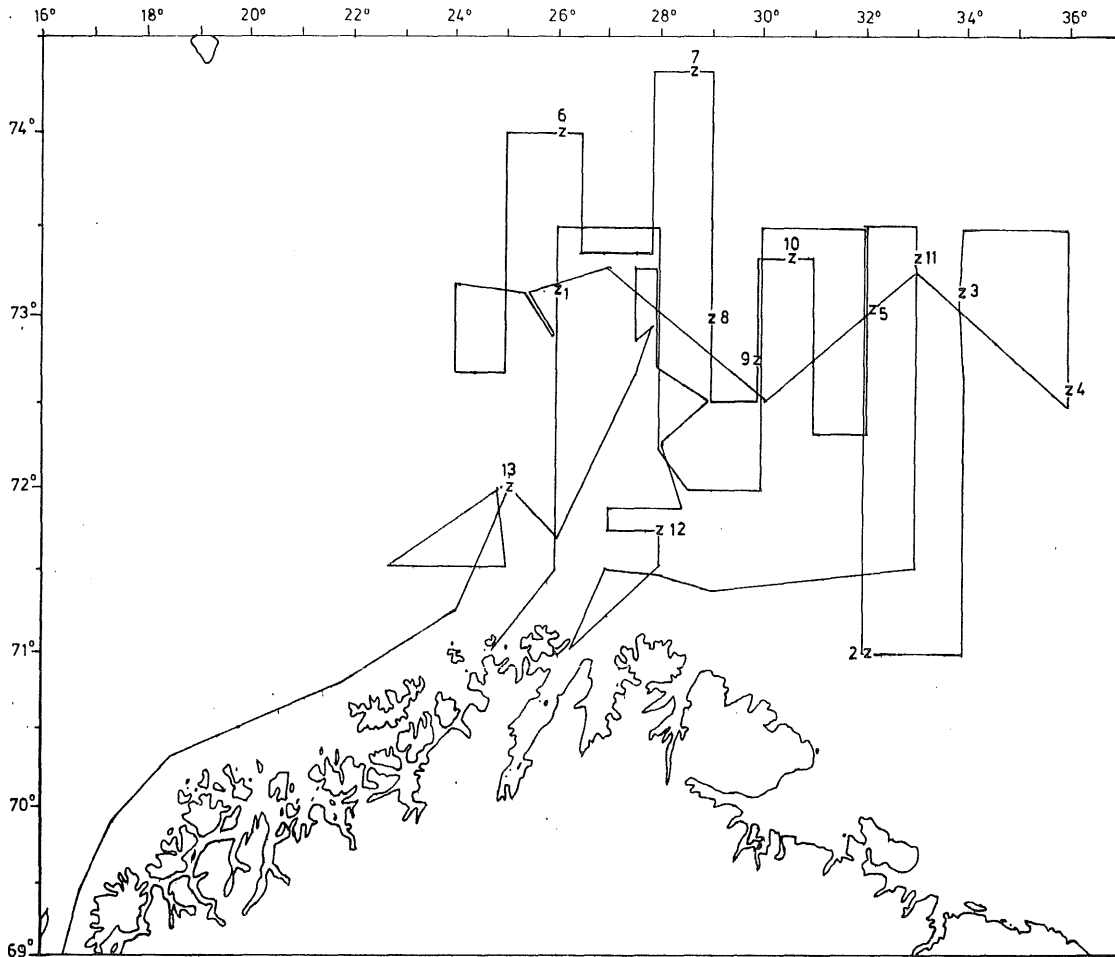
19 AUG. - 3 SEP. 1984 ST. NO. 883 - 963



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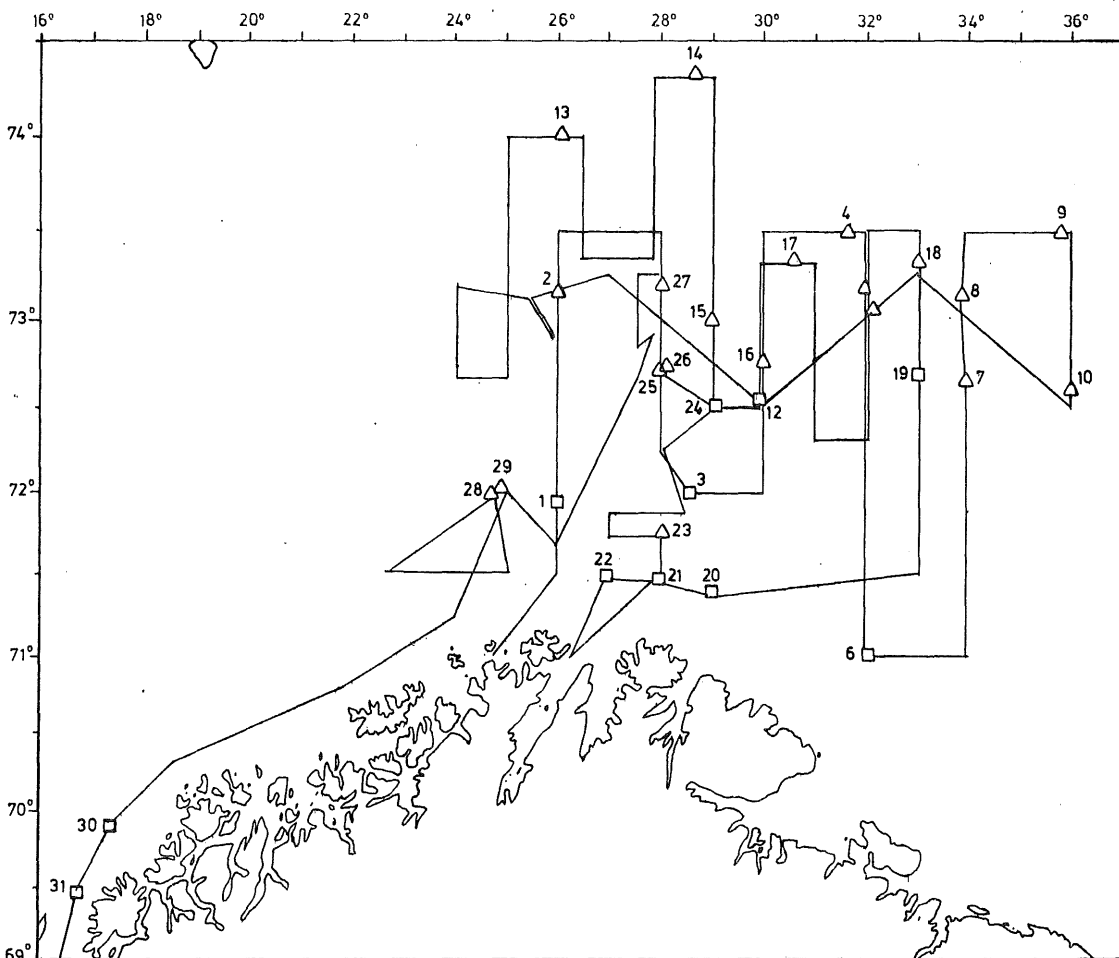






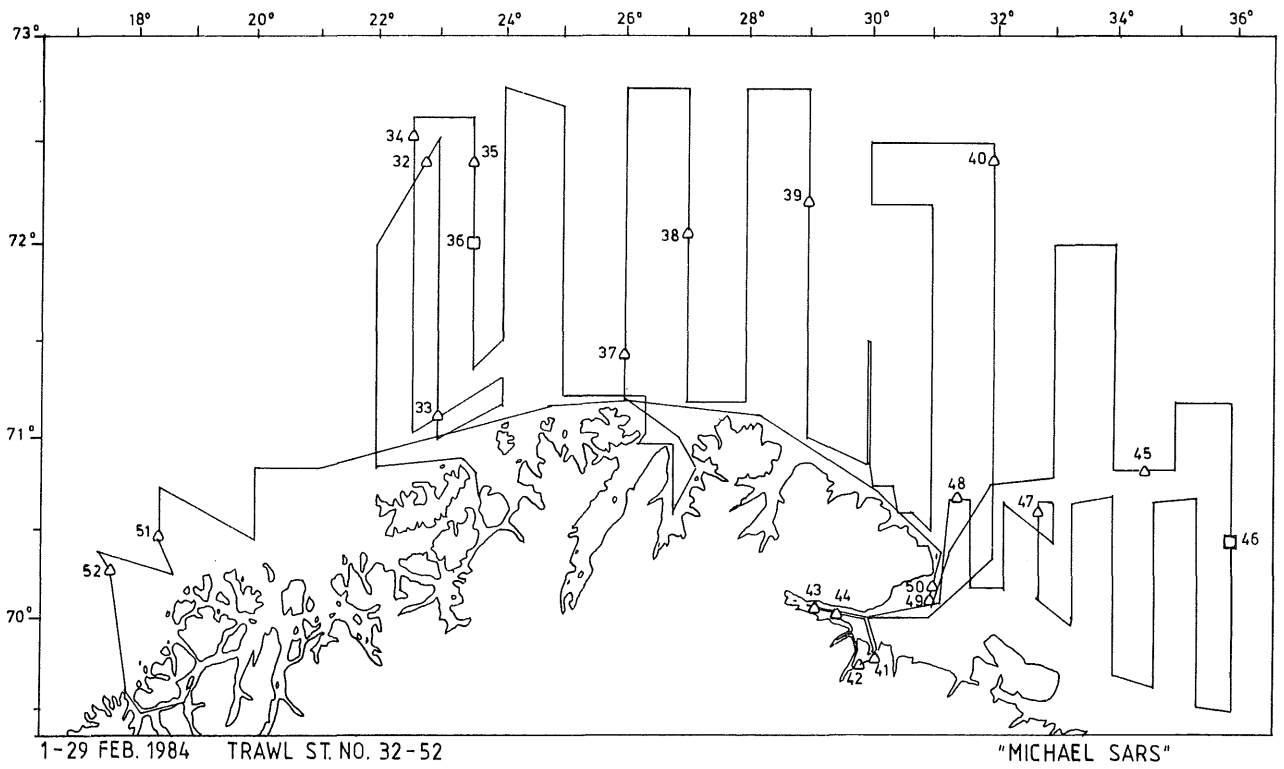
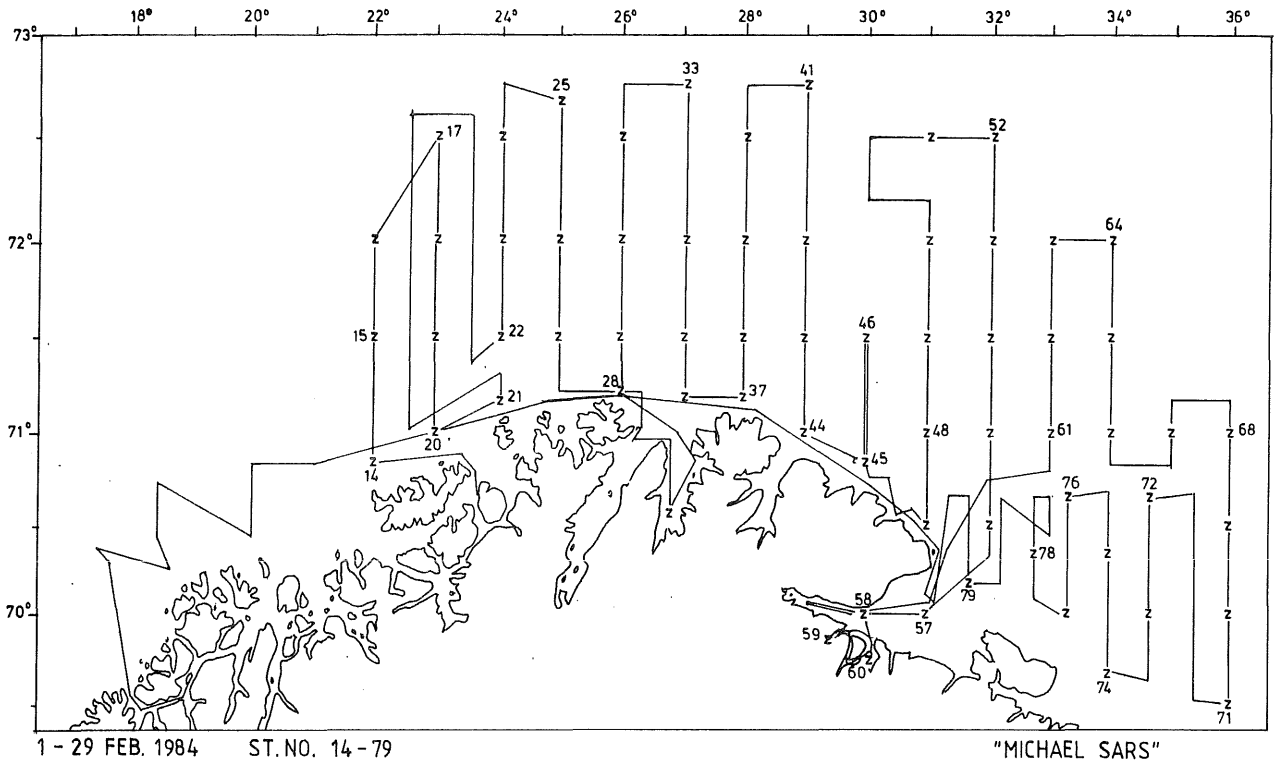
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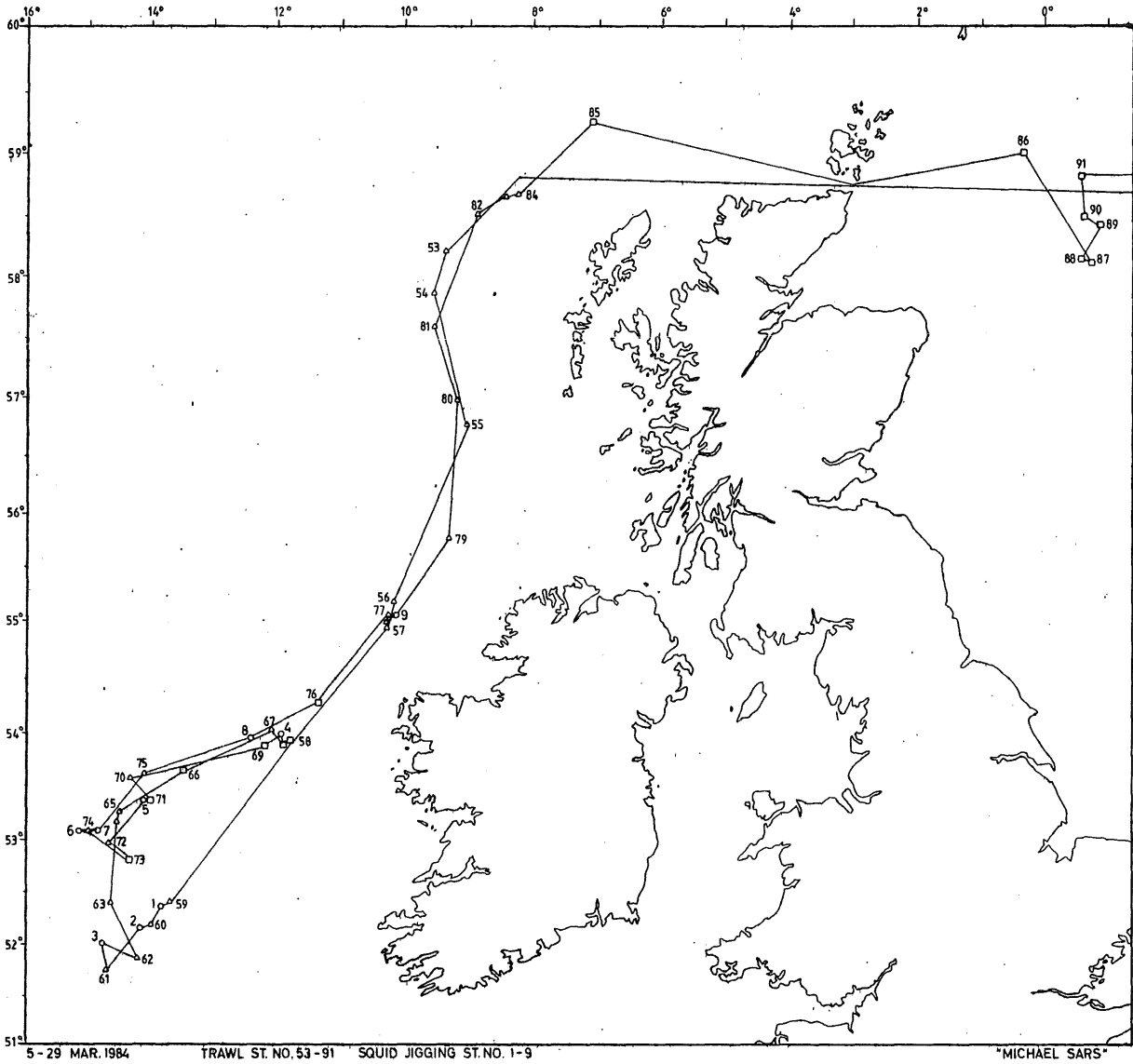
"MICHAEL SARS"

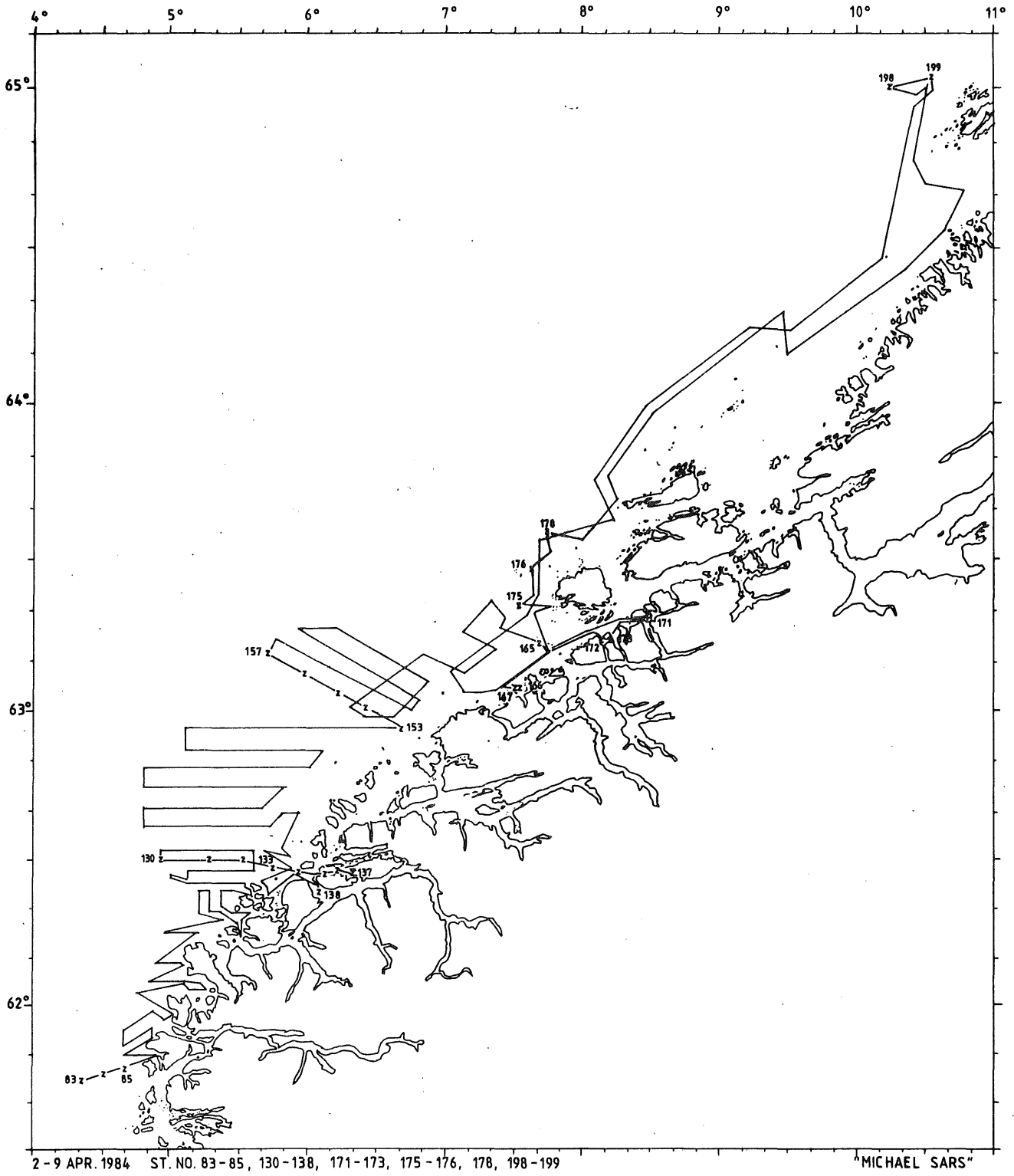


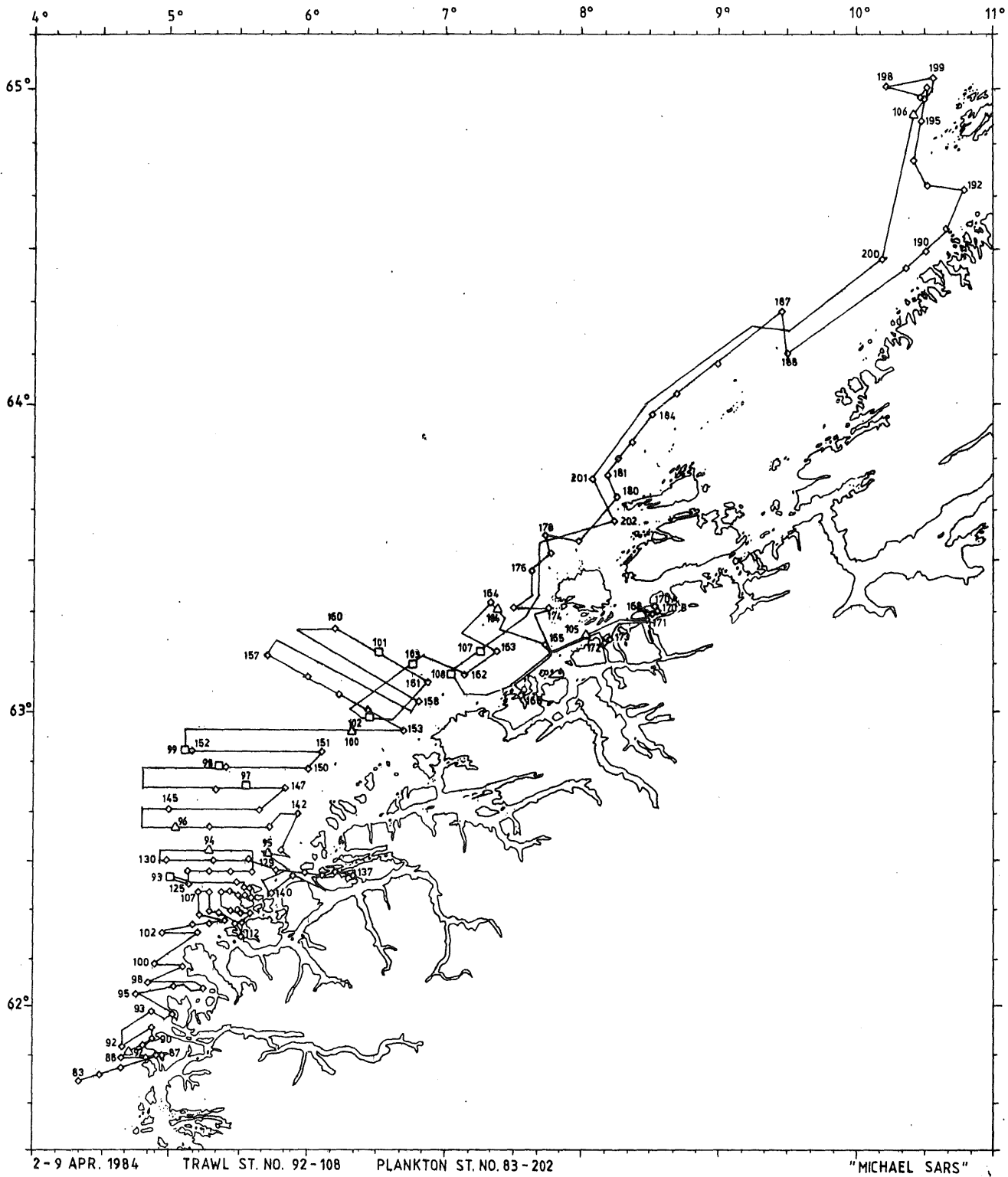
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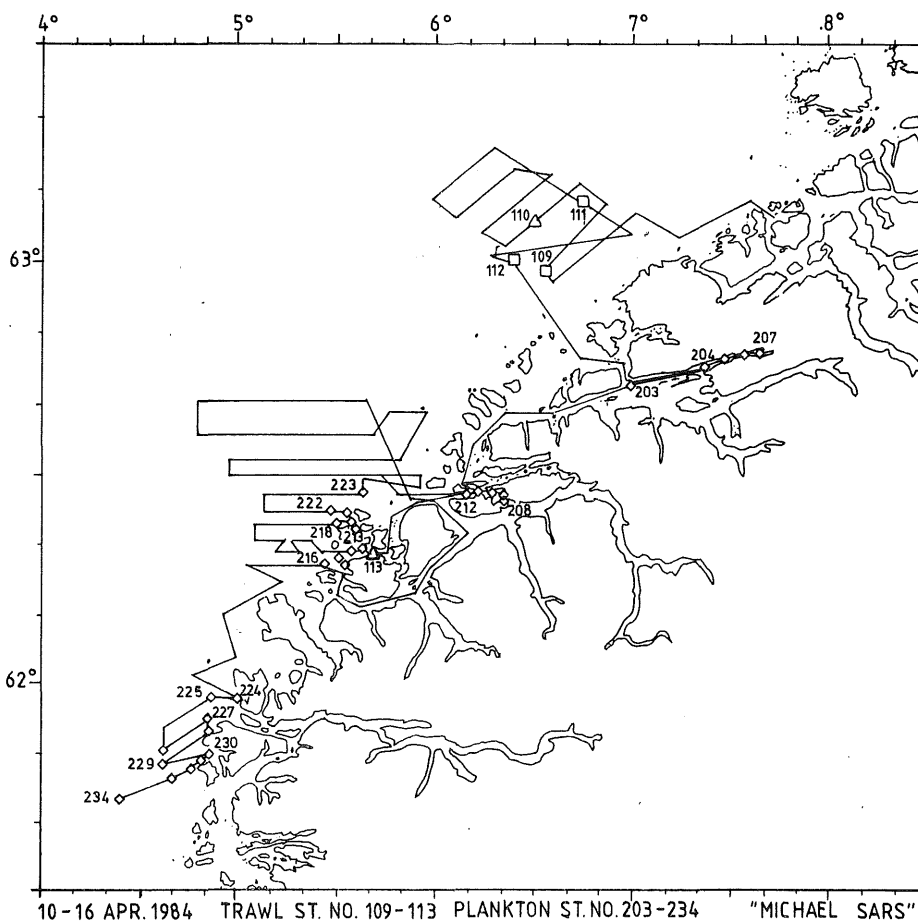
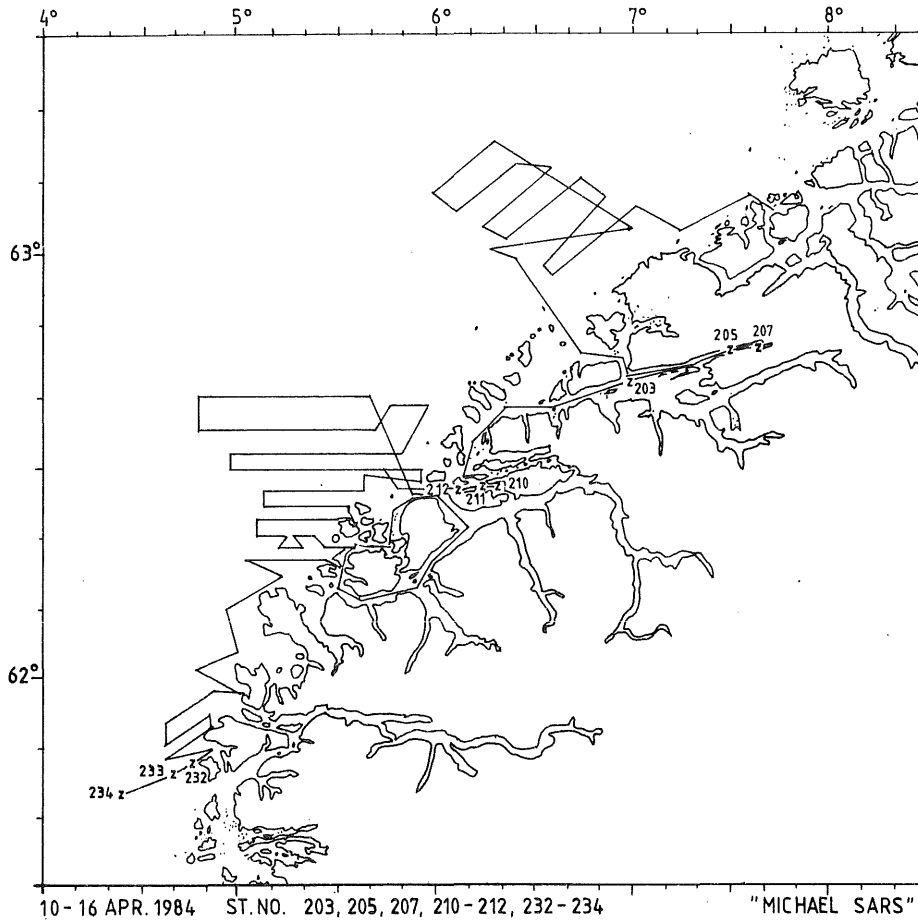
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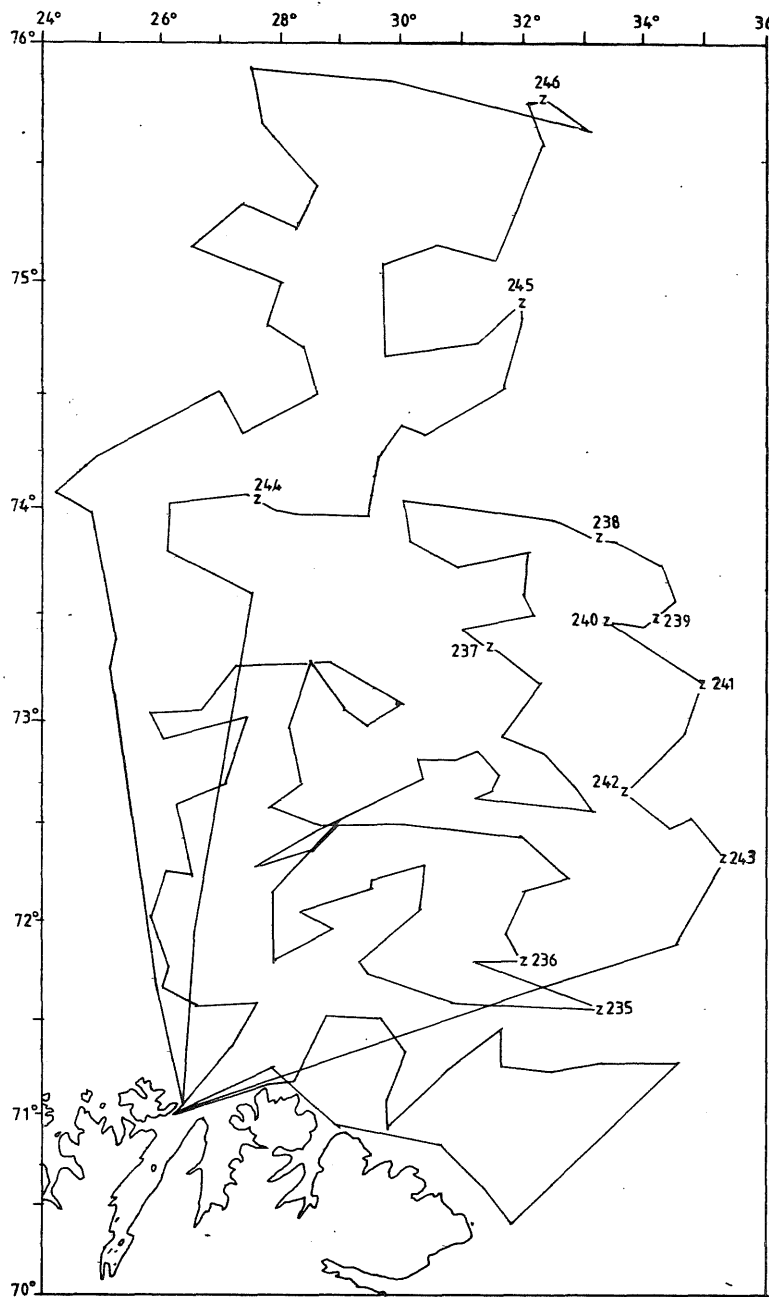




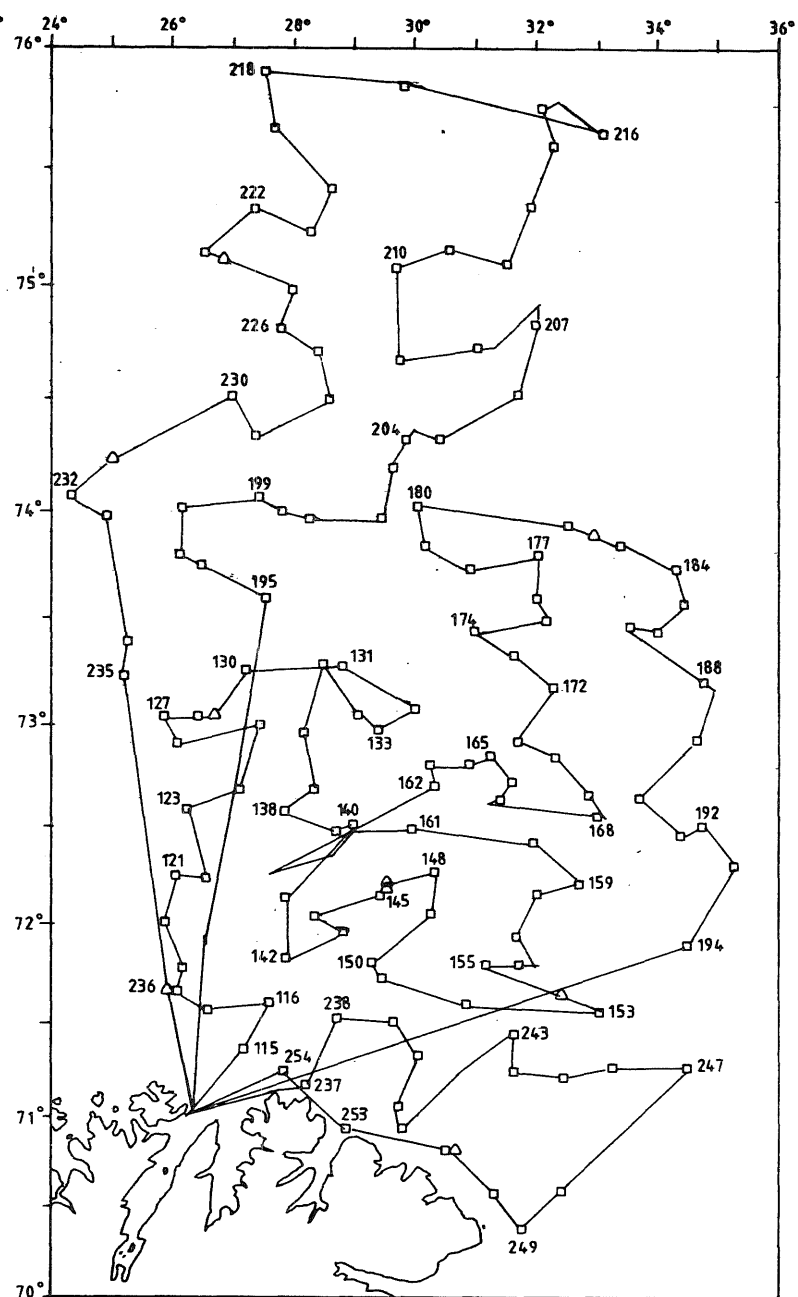






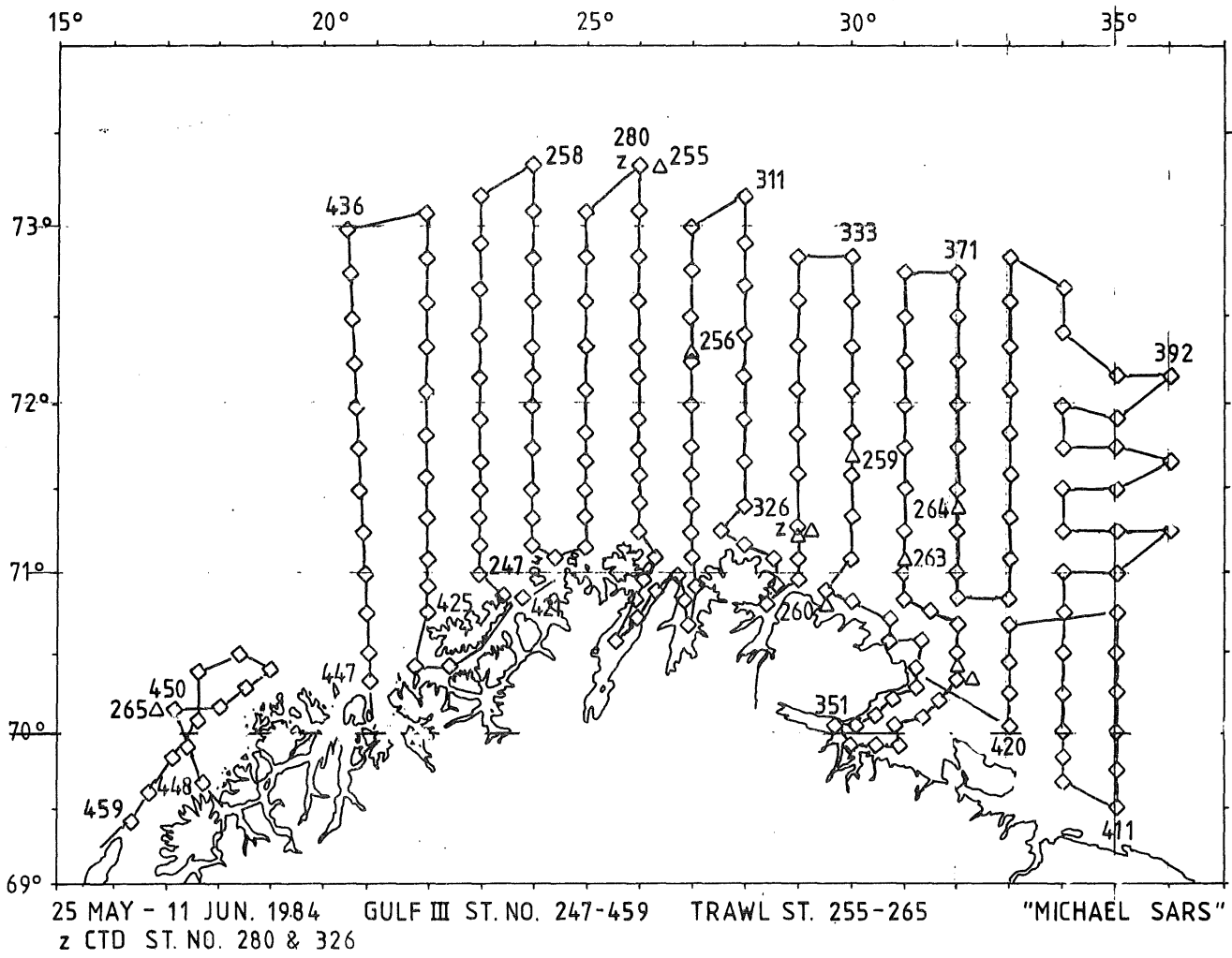


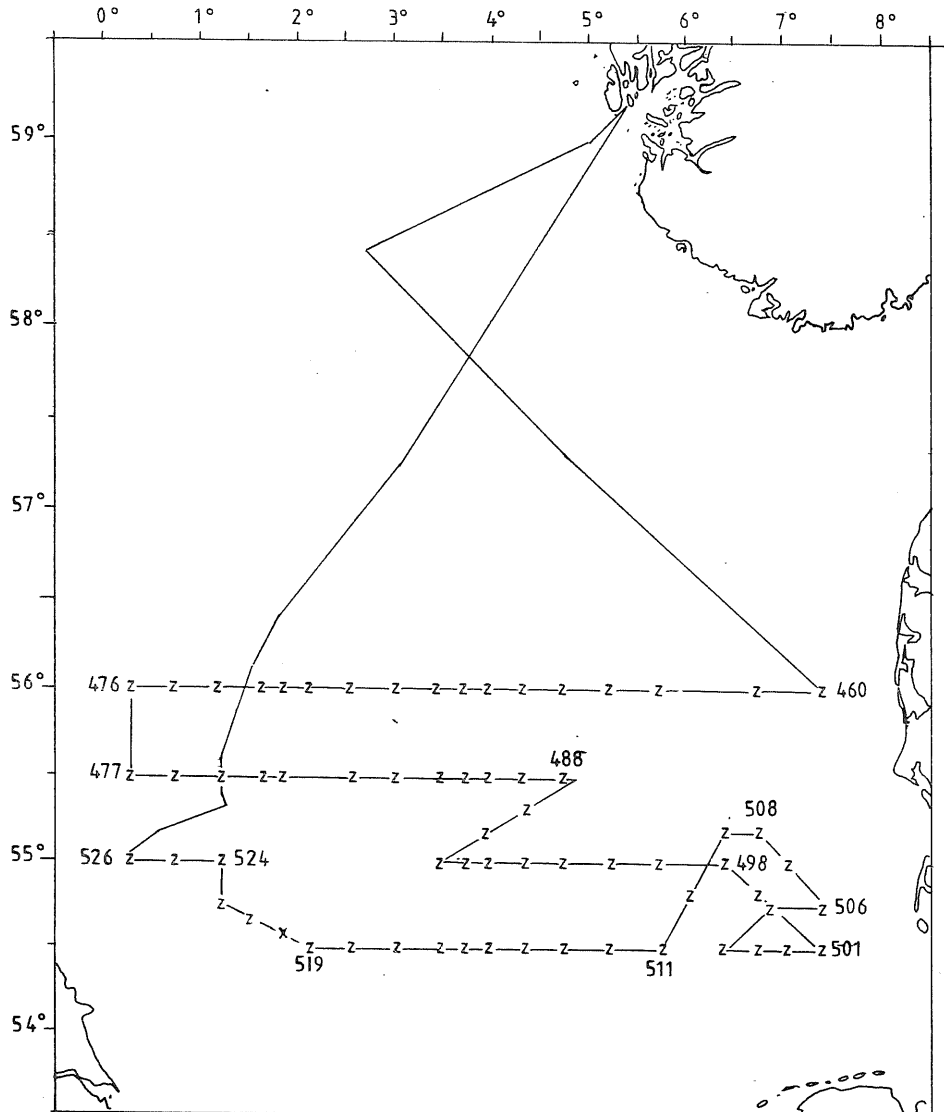
27 APR. - 21 MAY 1984 ST.NO. 235-246



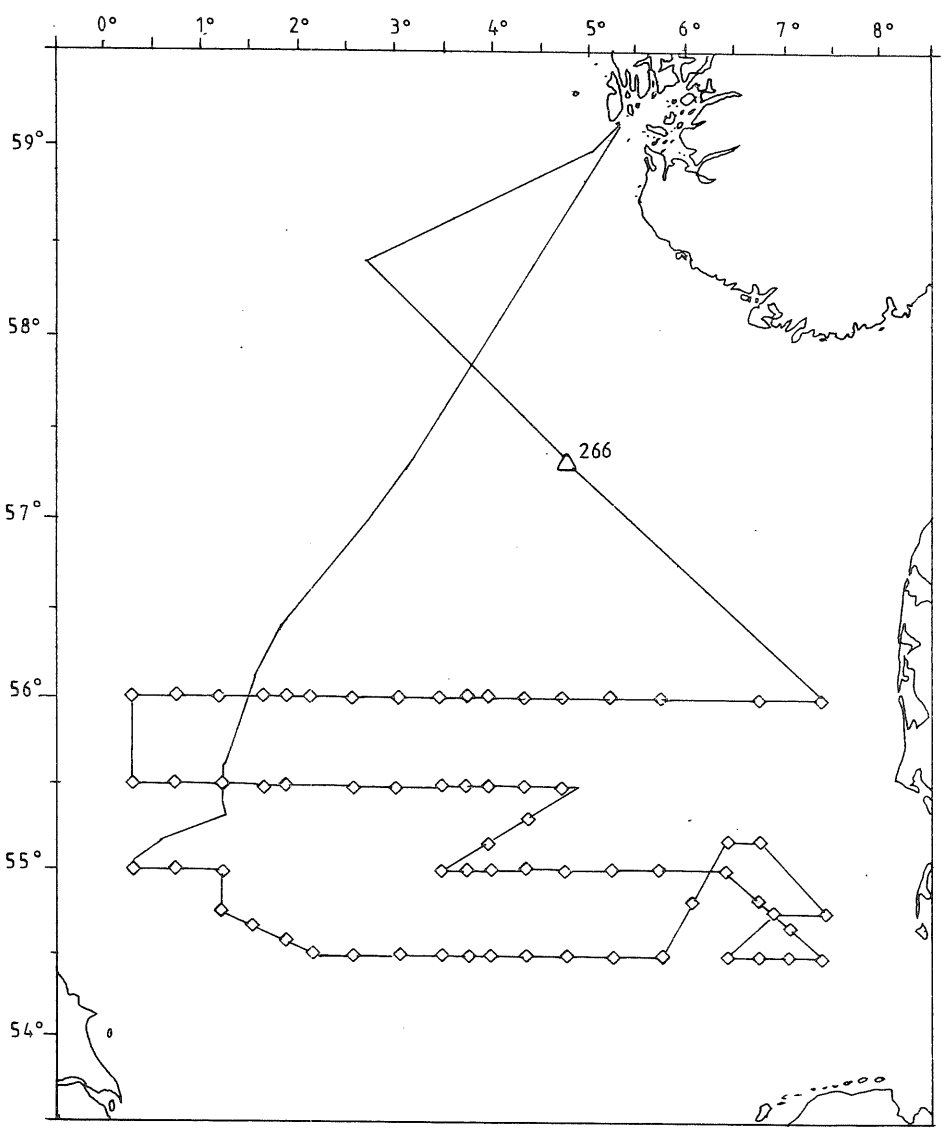
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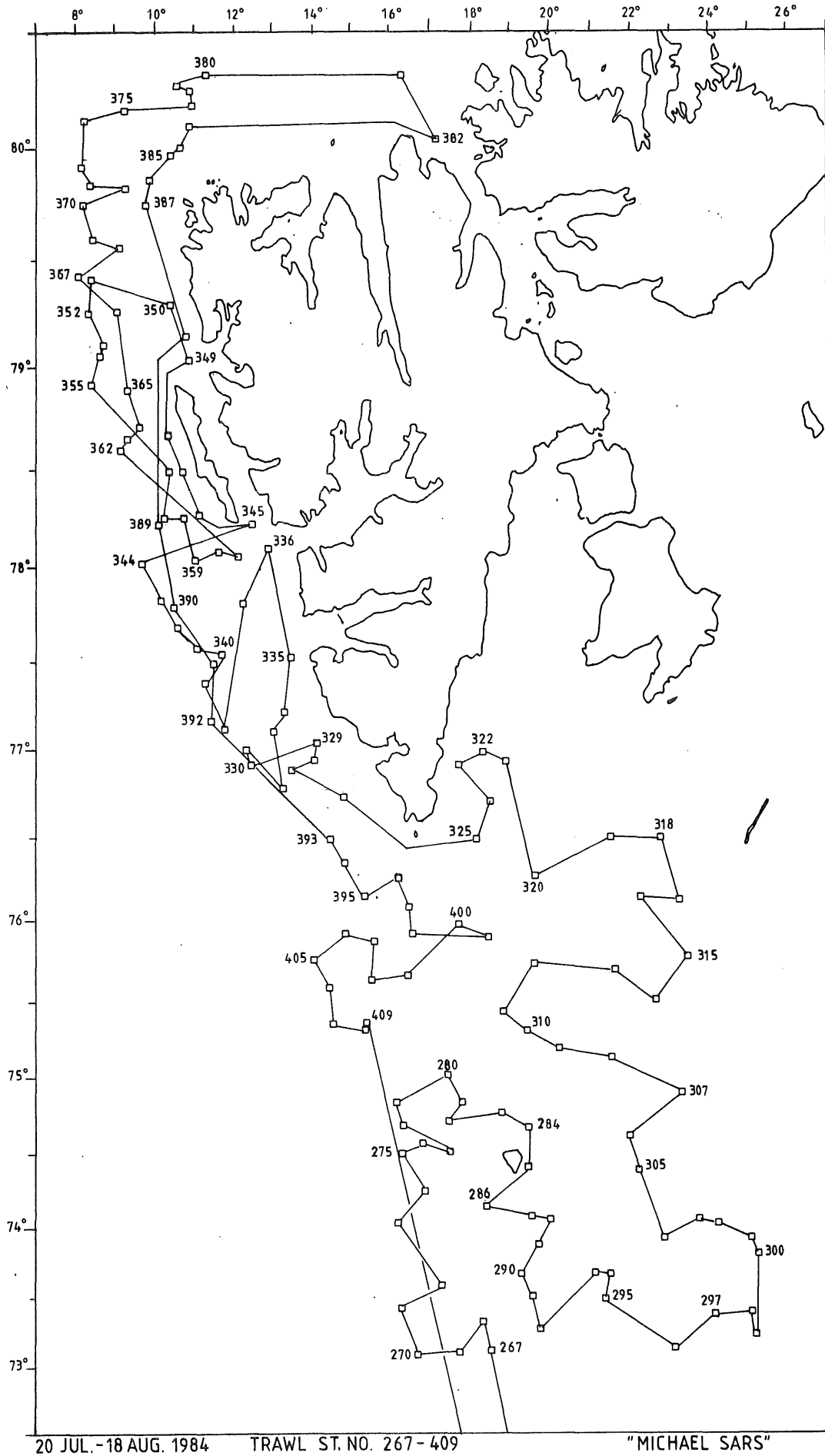


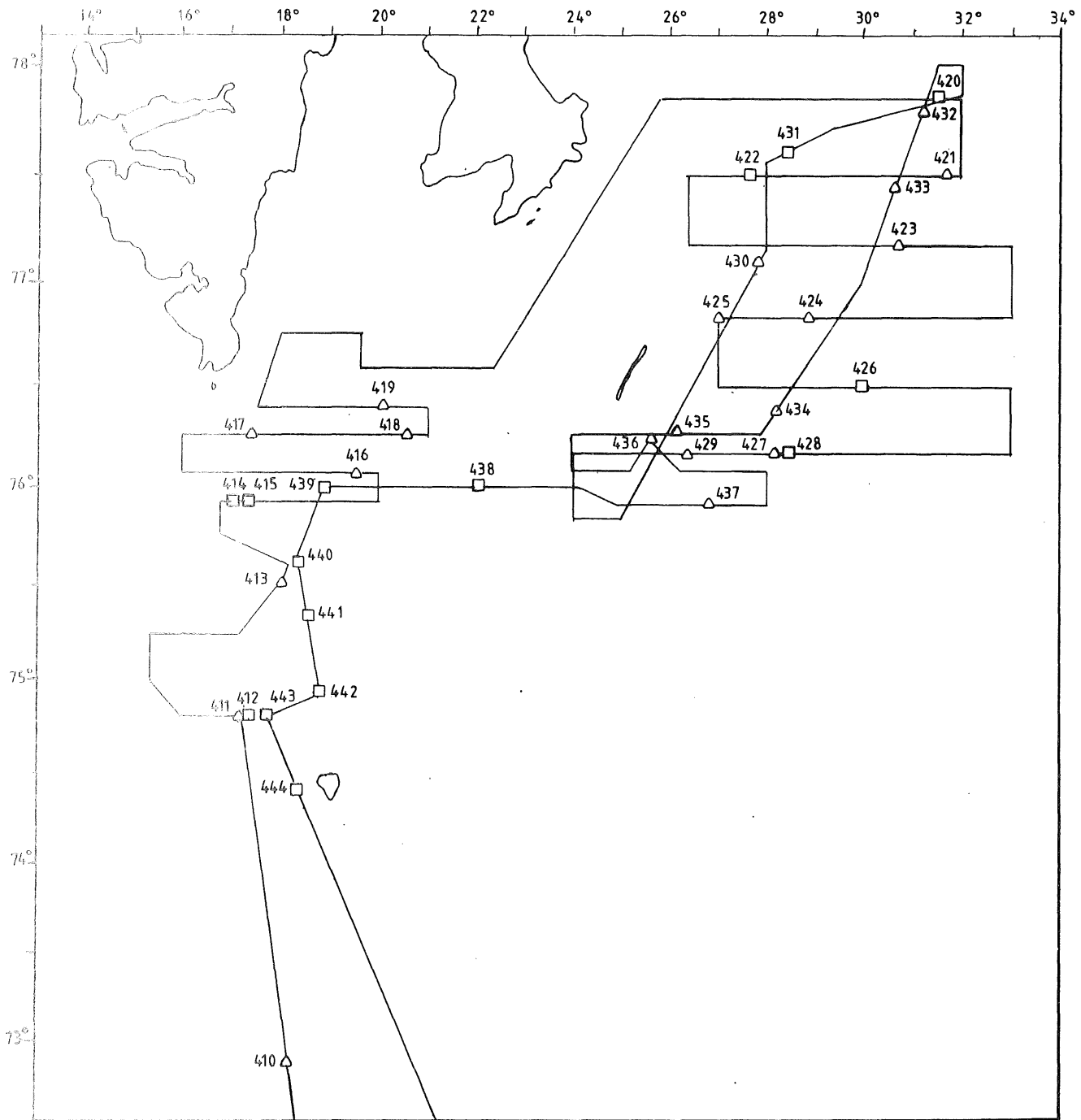


15 - 25 JUN 1984 ST. NO. 460-526



PLANKTON ST. TRAWL ST. NO. 266 "MICHAEL SARS"

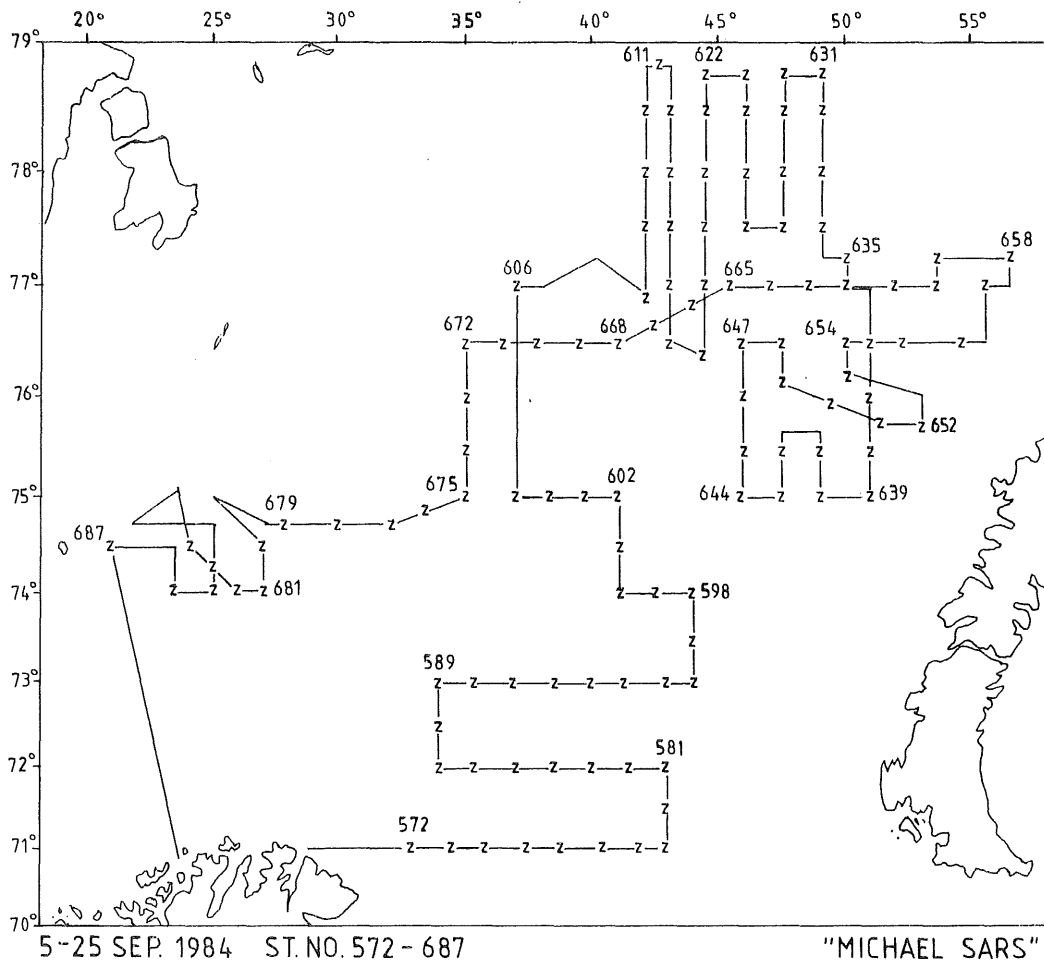
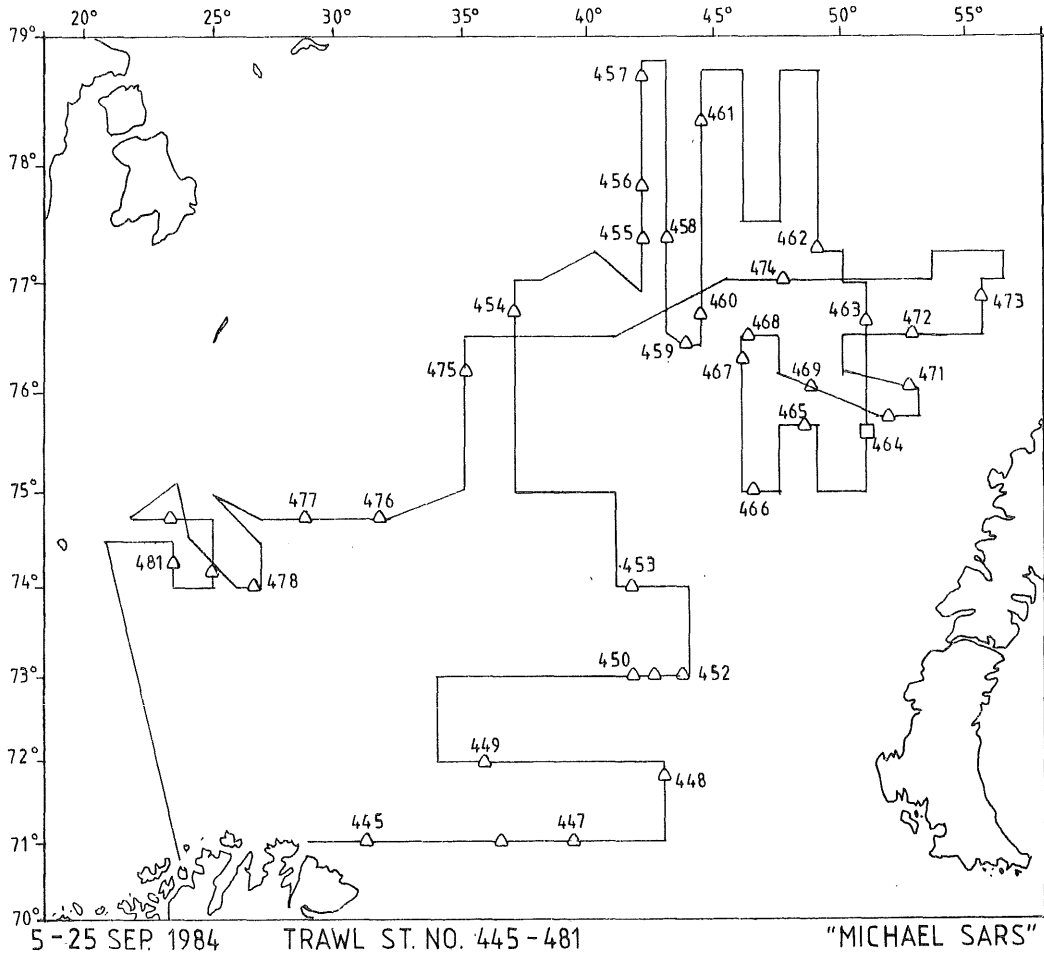


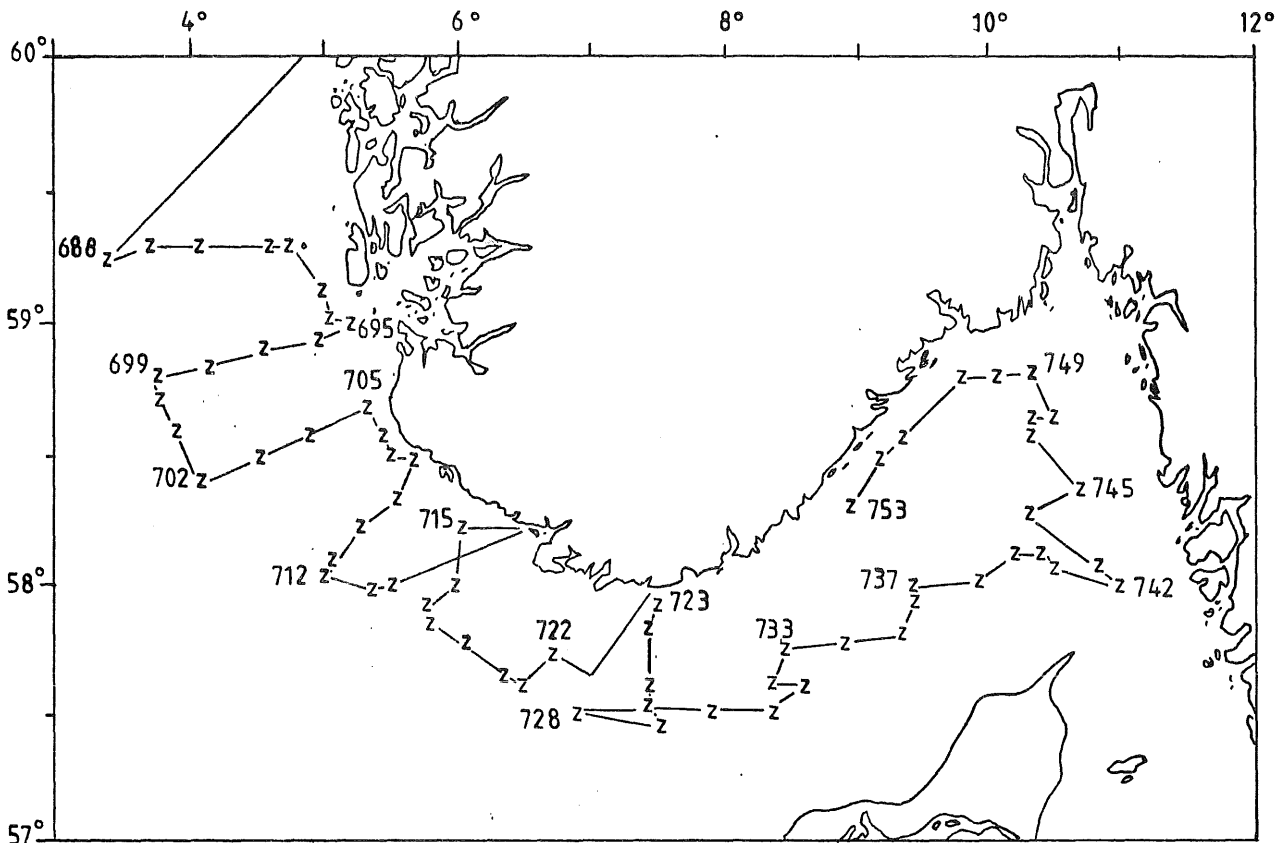


29 - 31 AUG. 1984

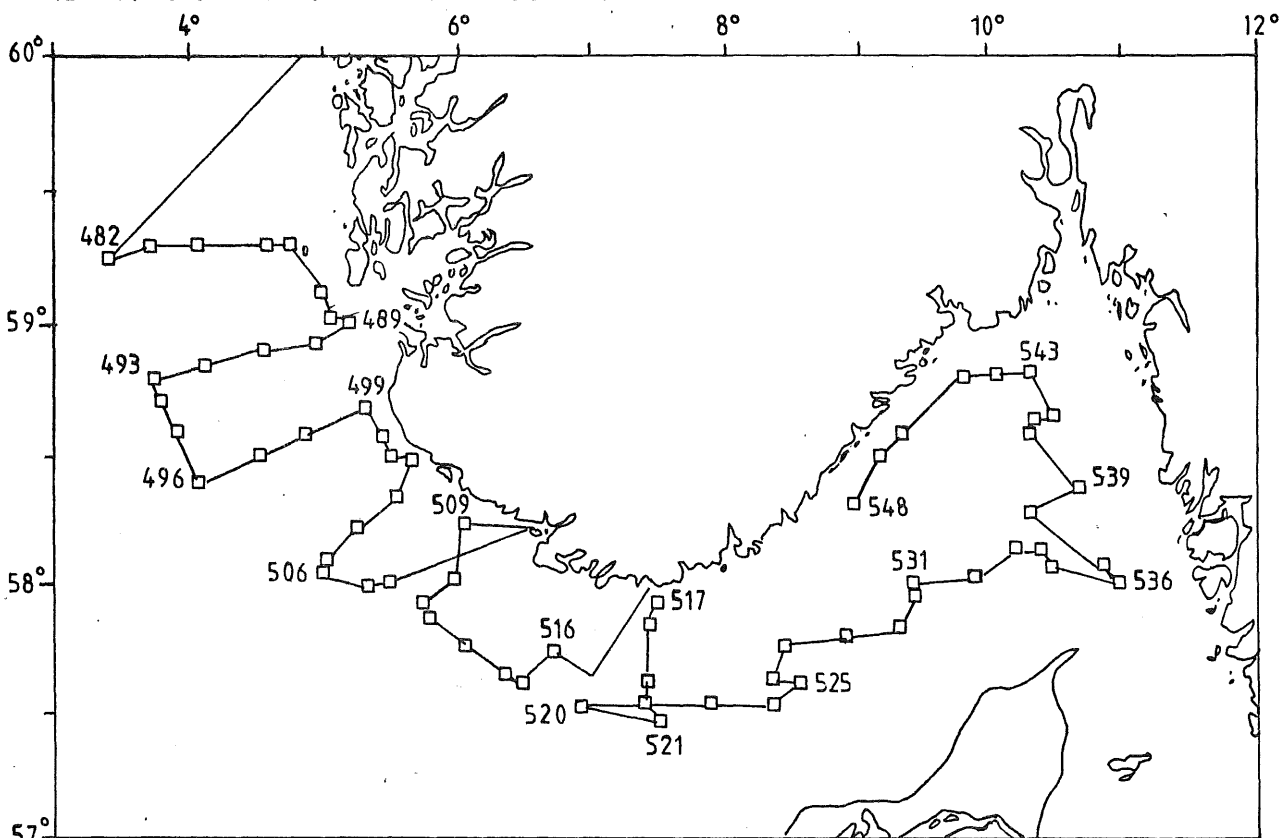
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"MICHAEL SARS"



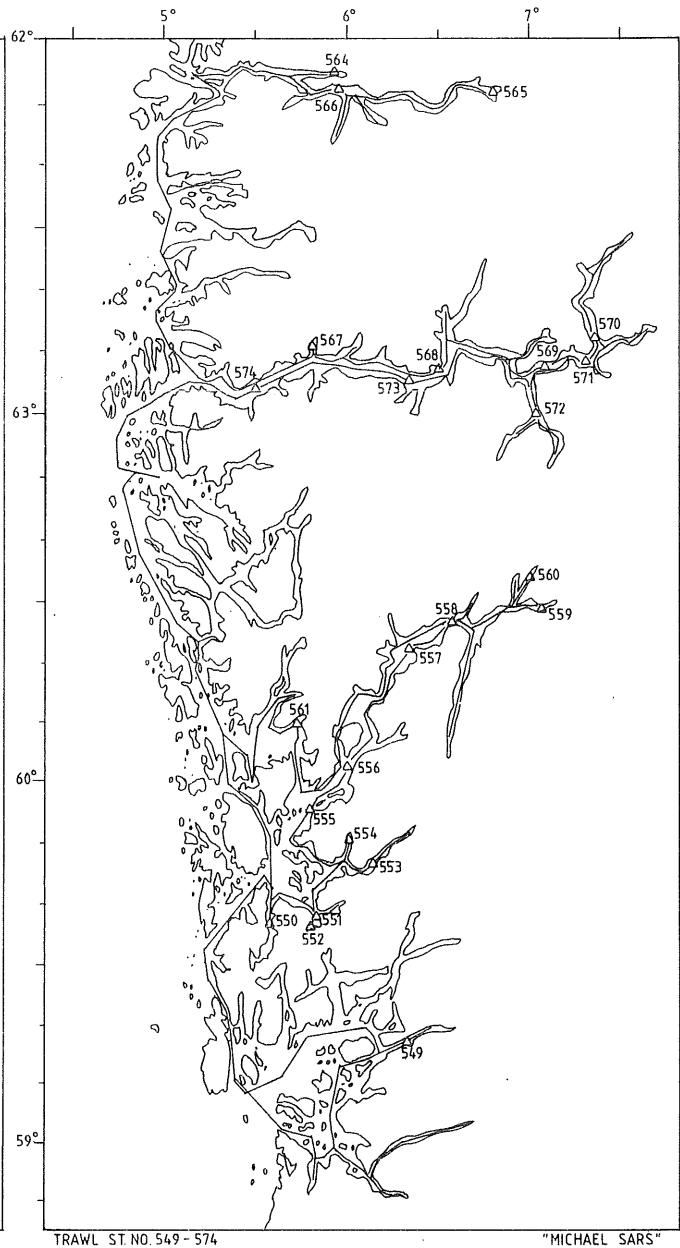
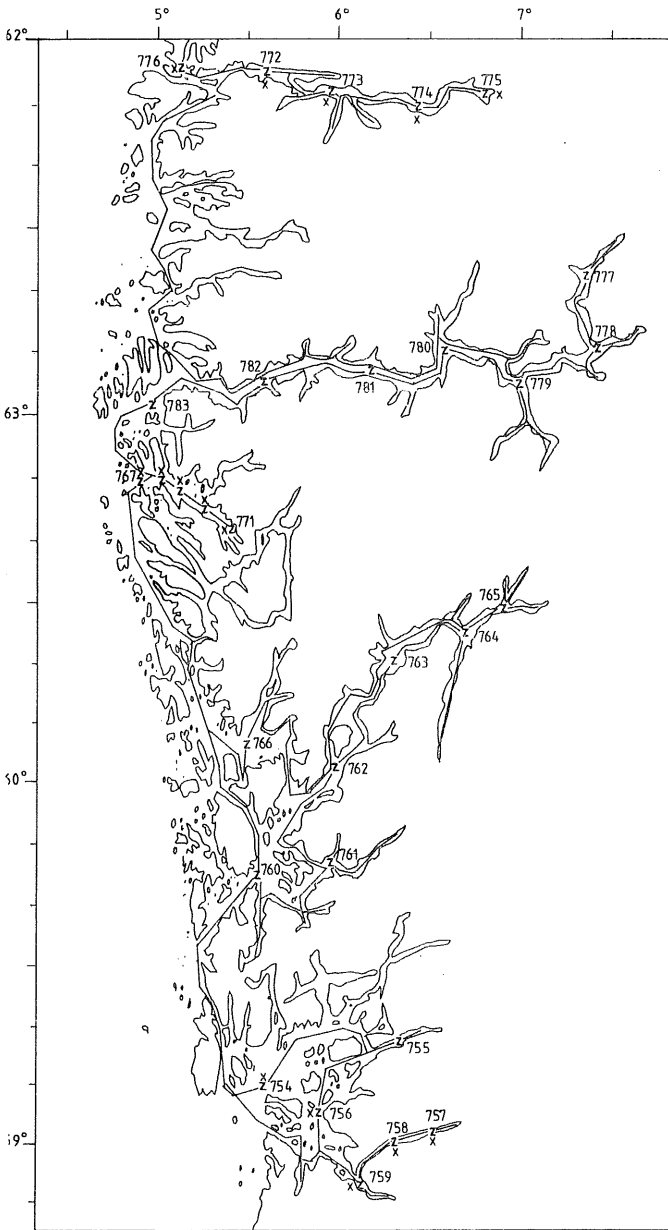


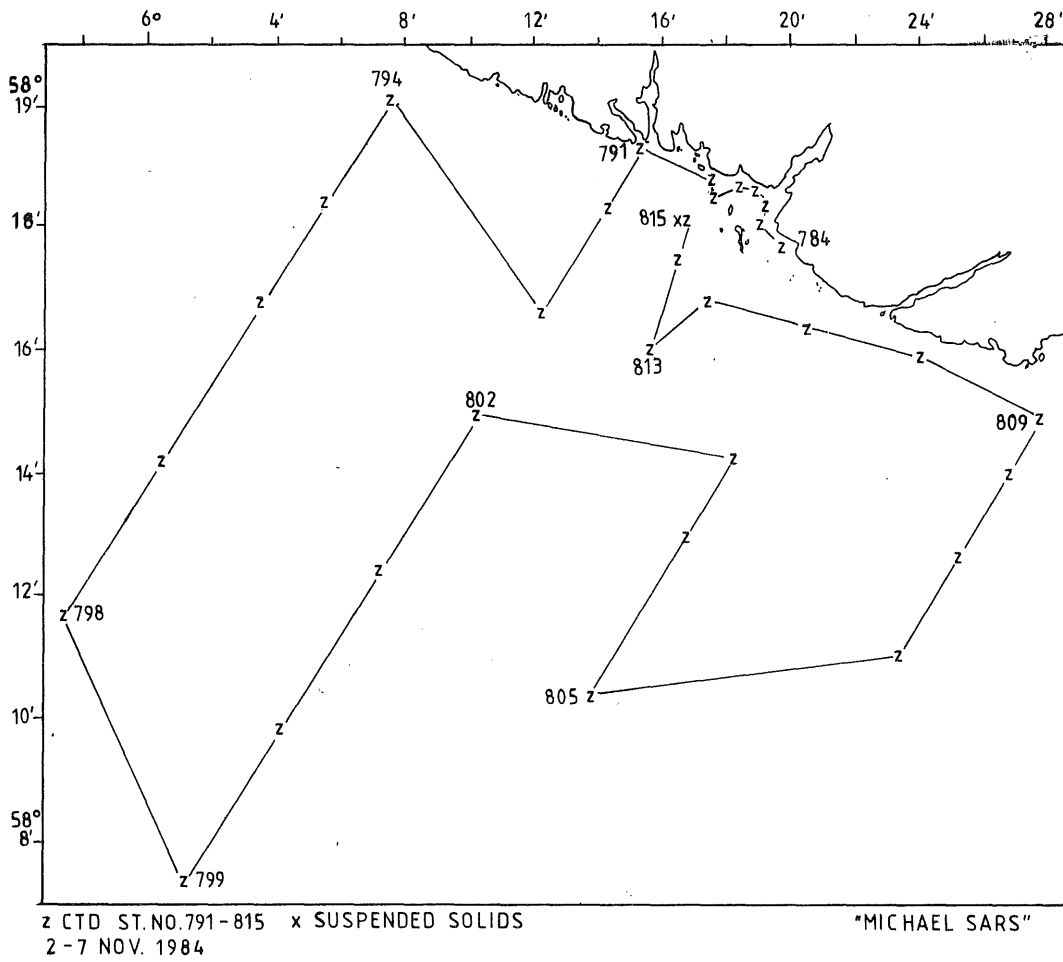
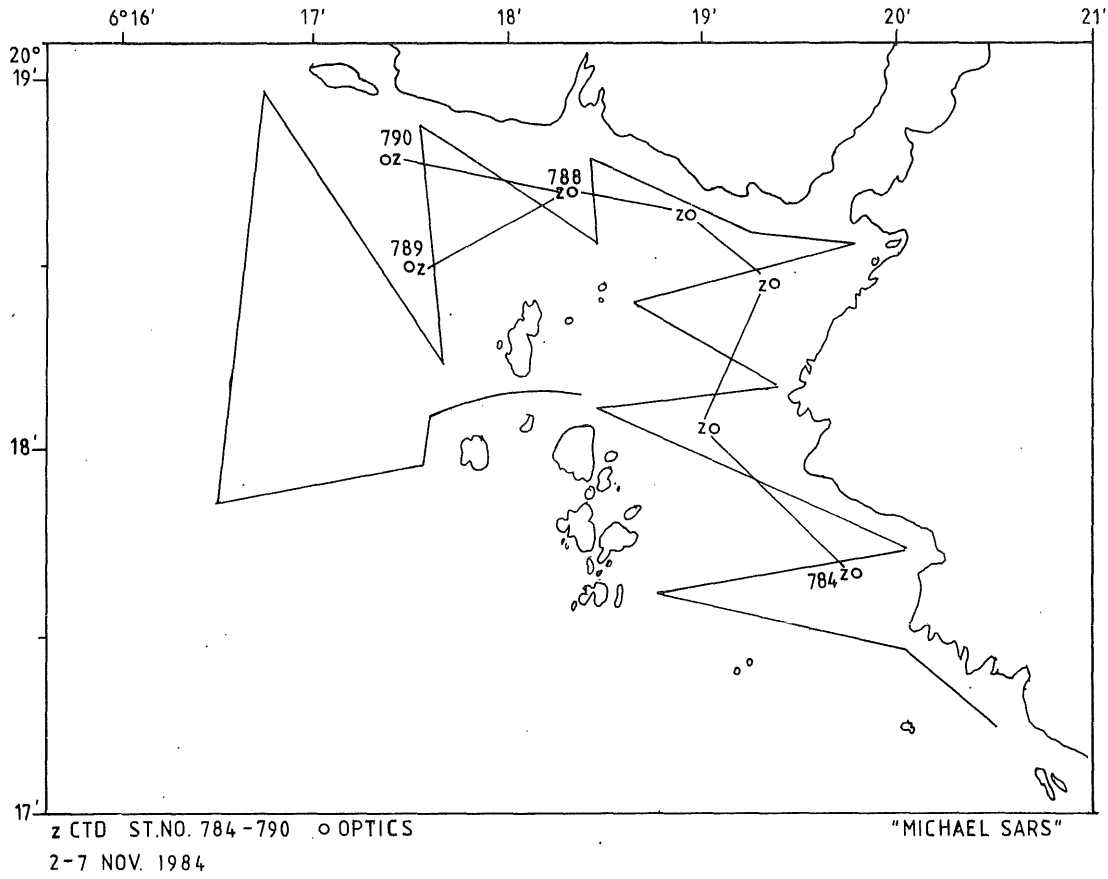
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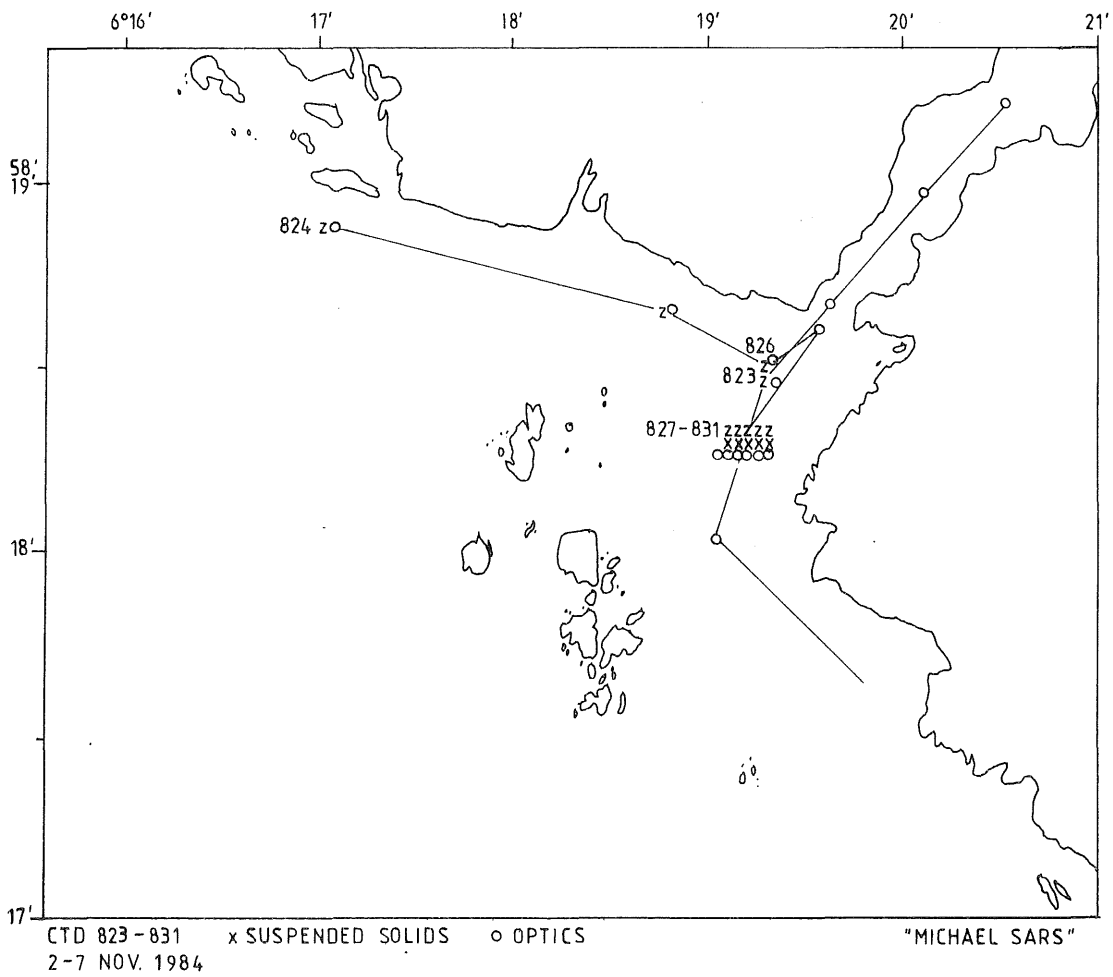
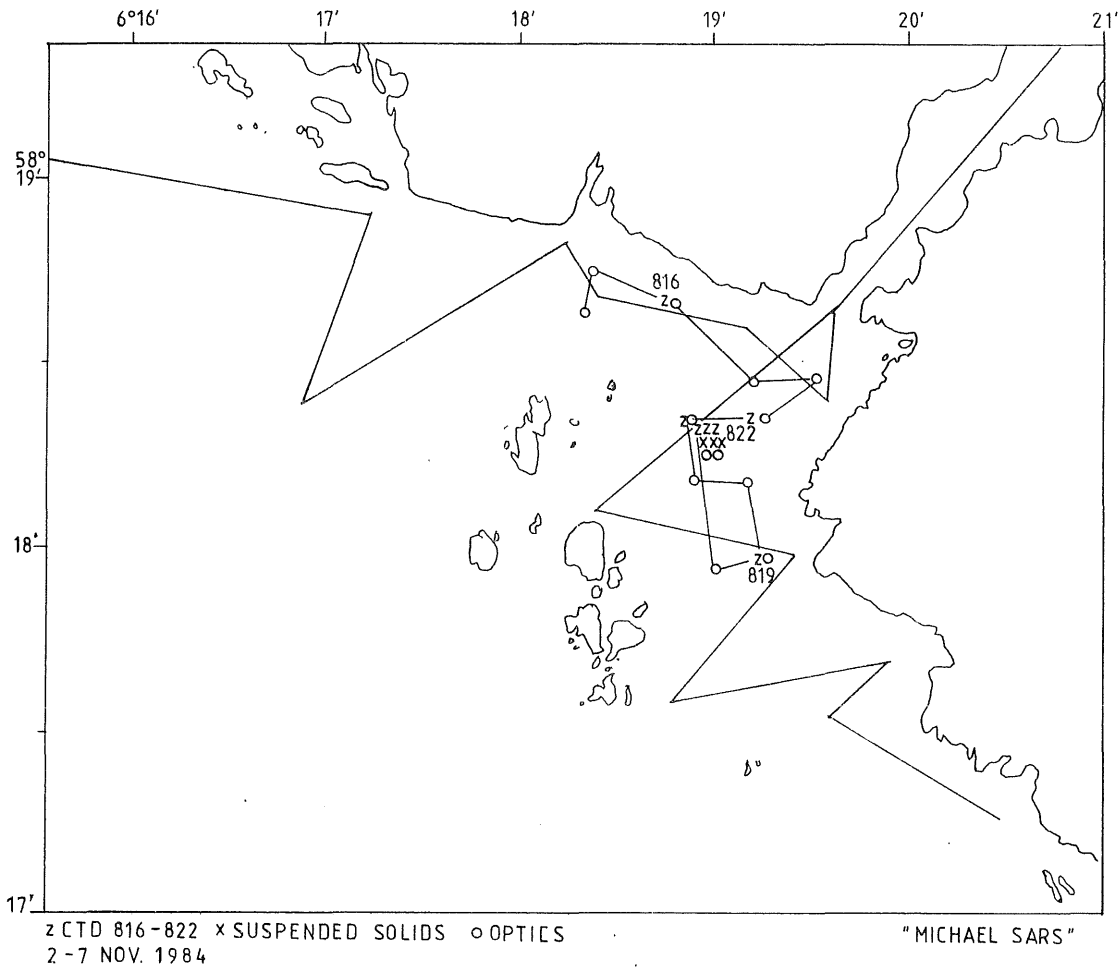


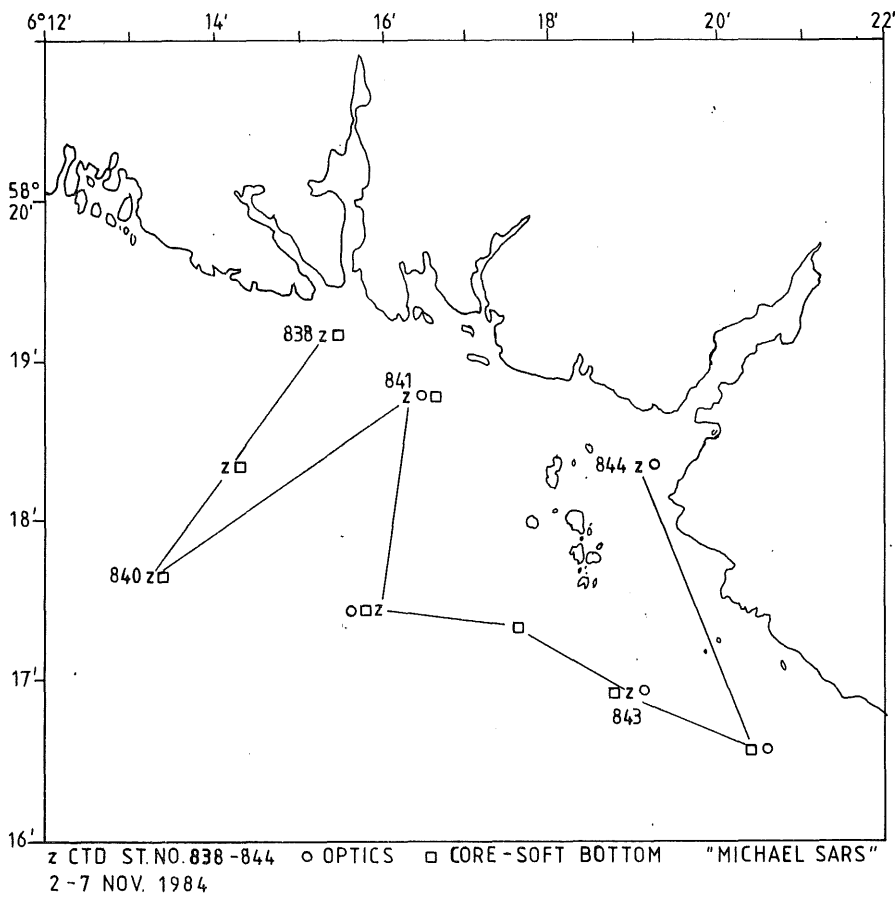
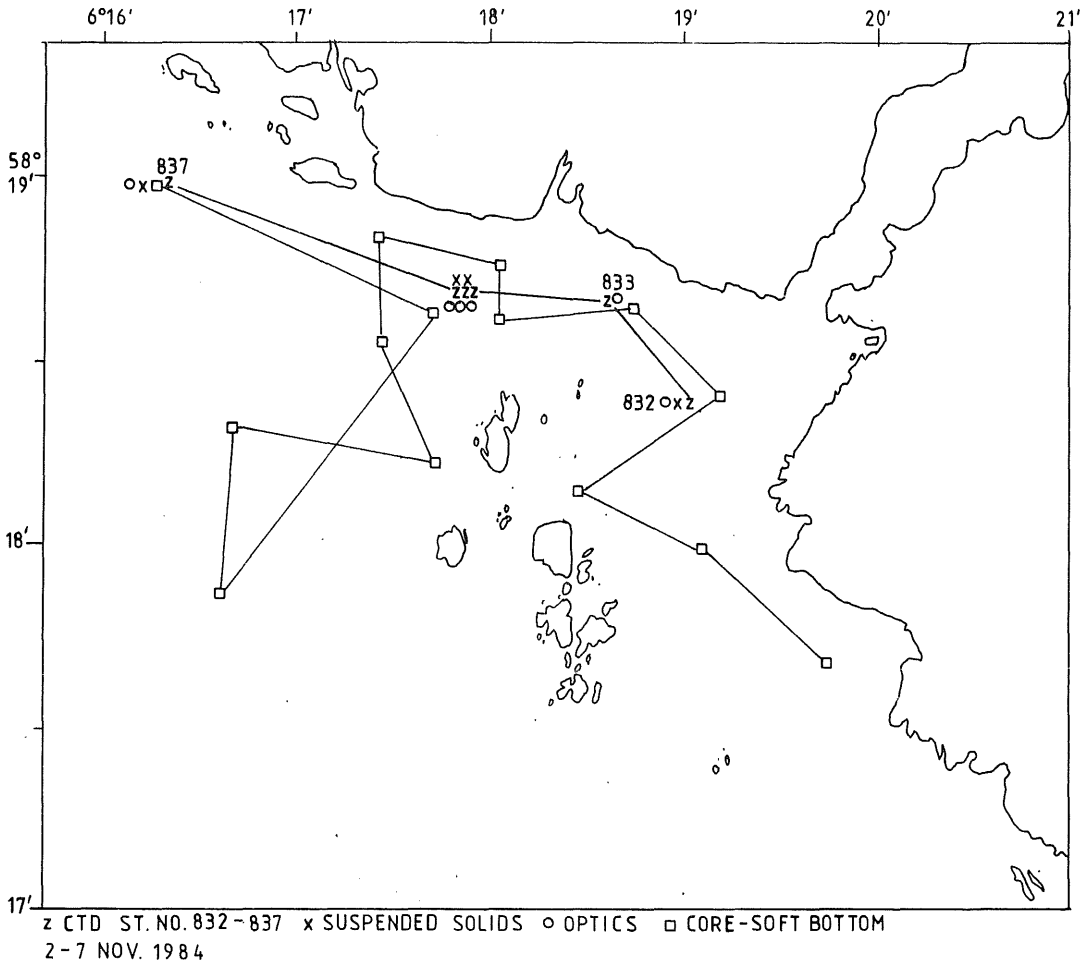
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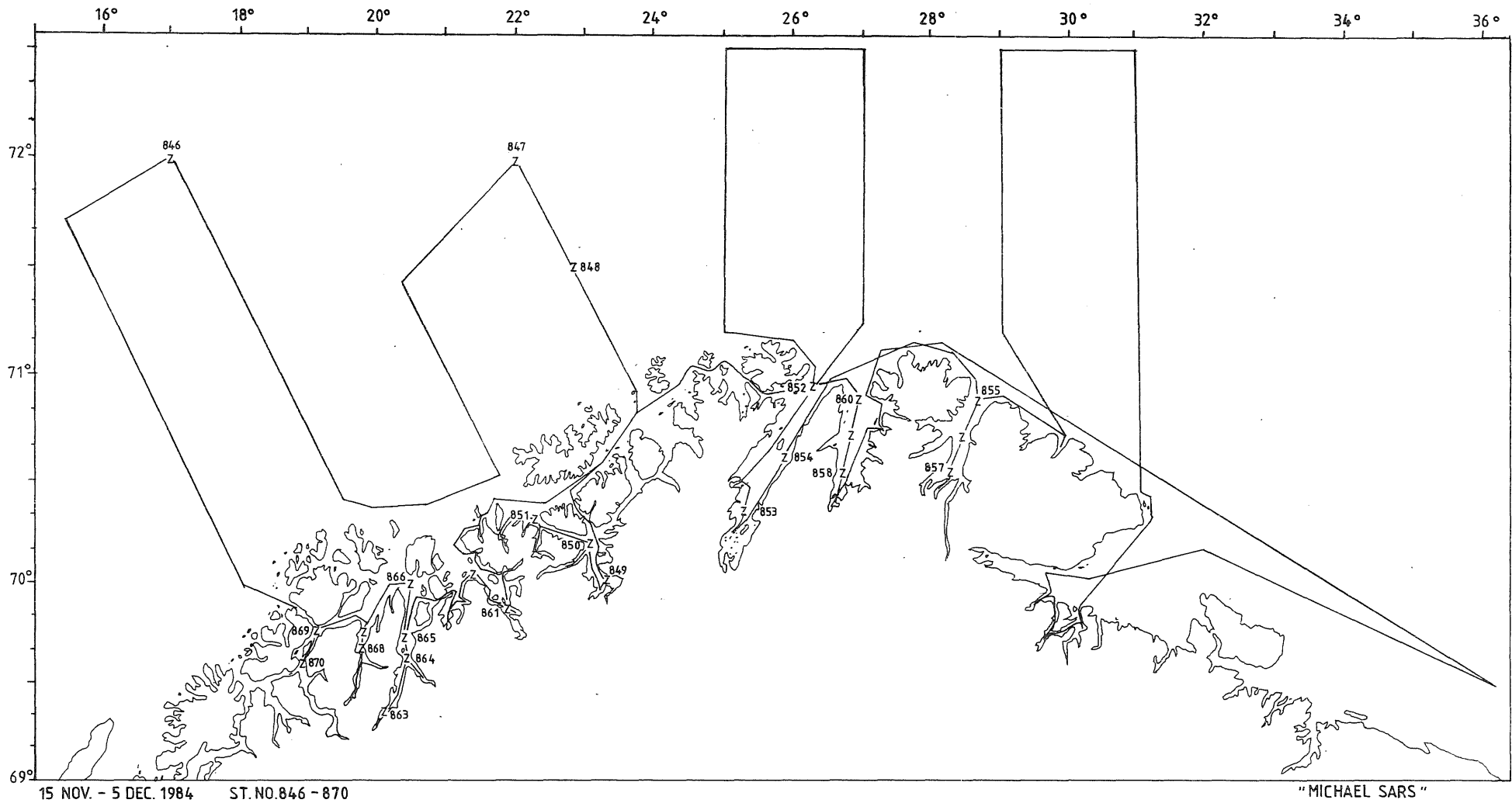
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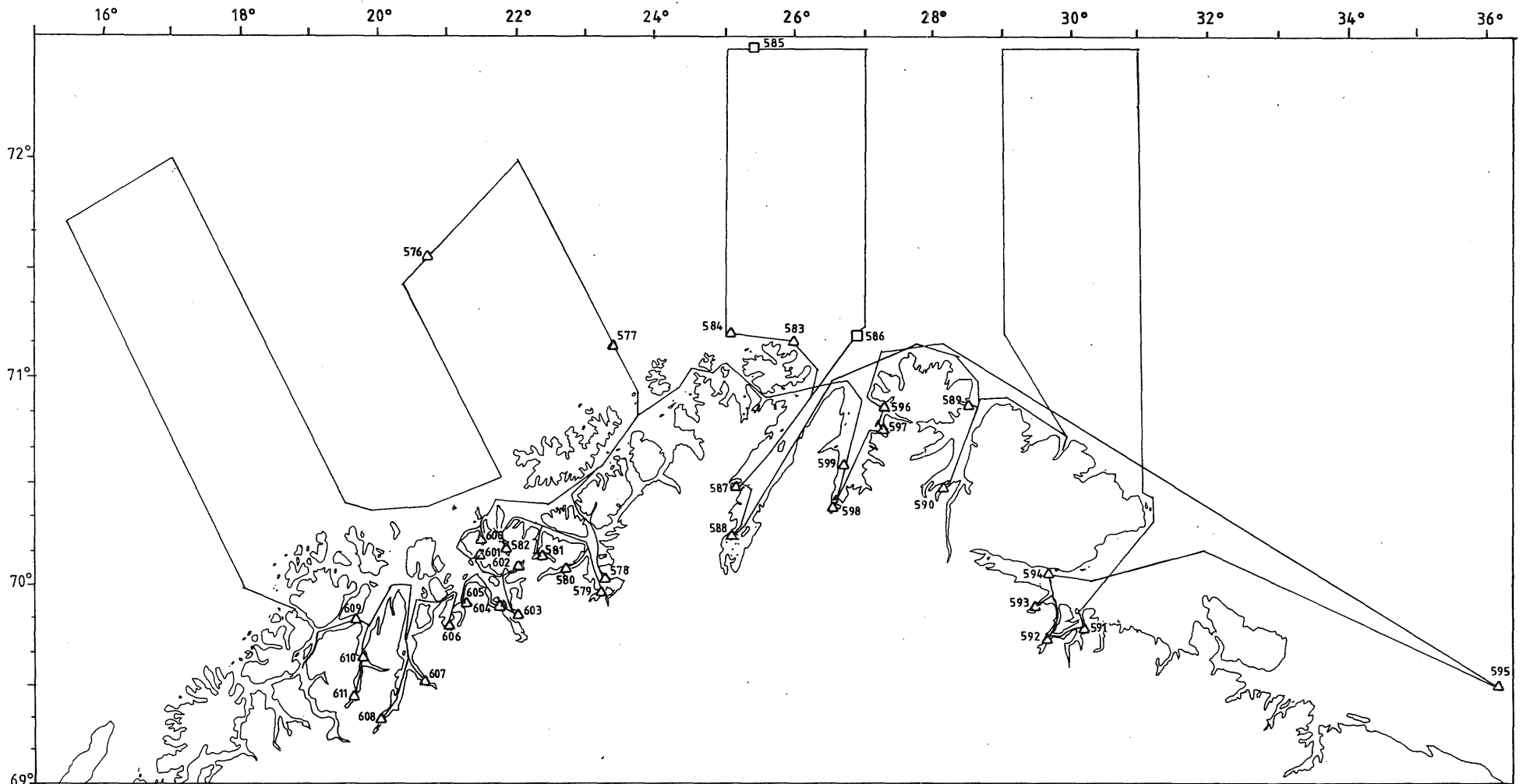






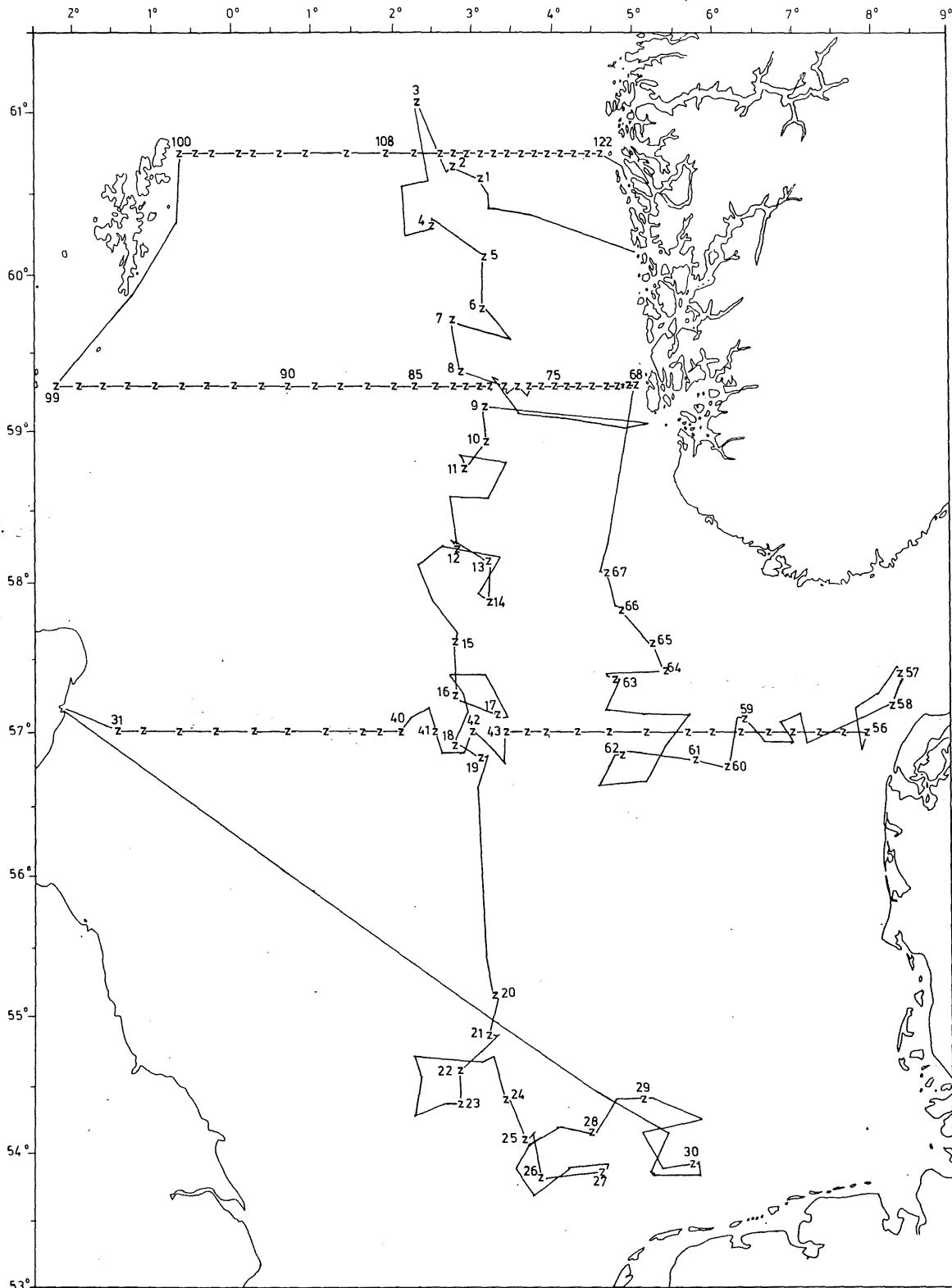


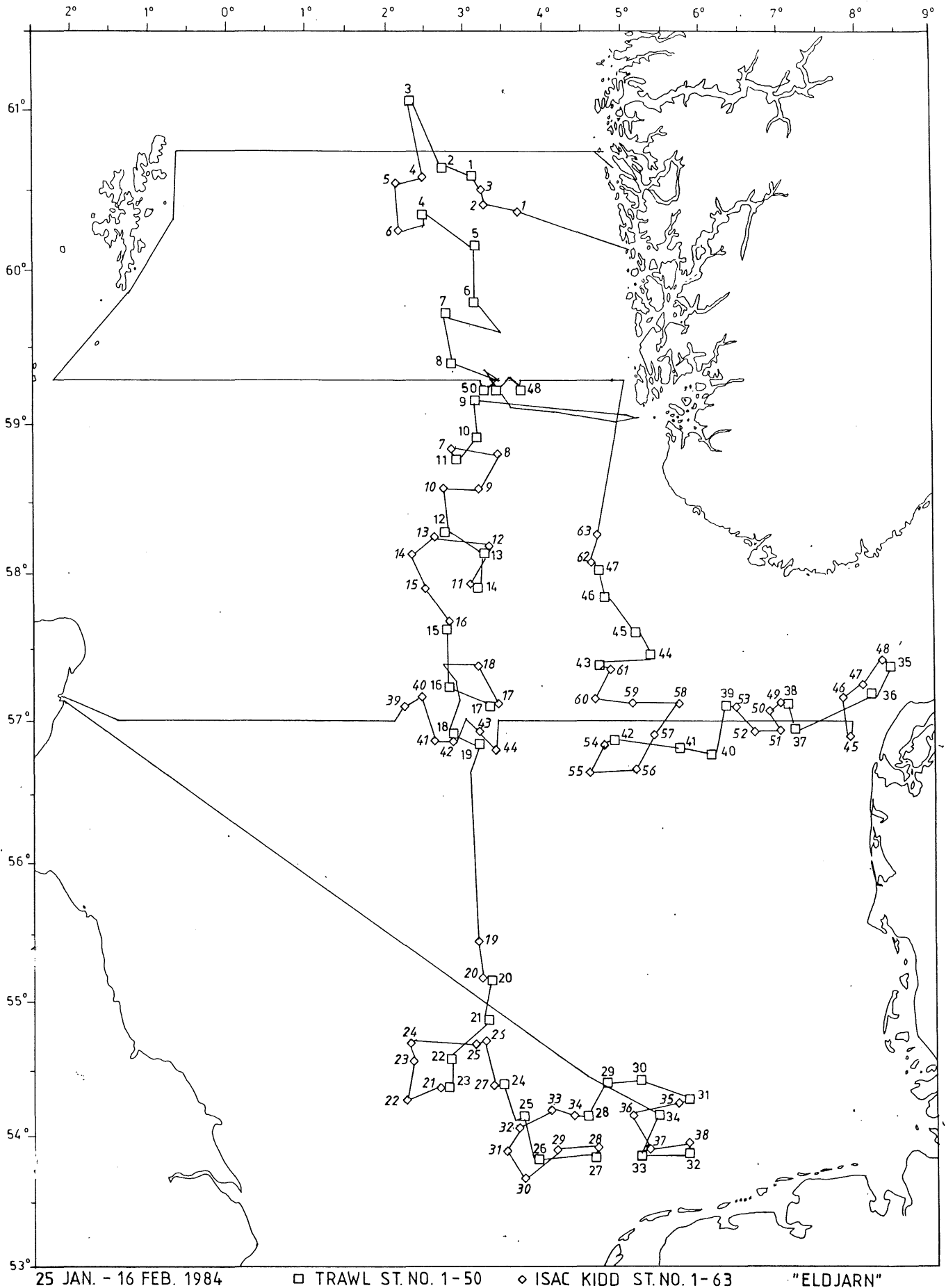


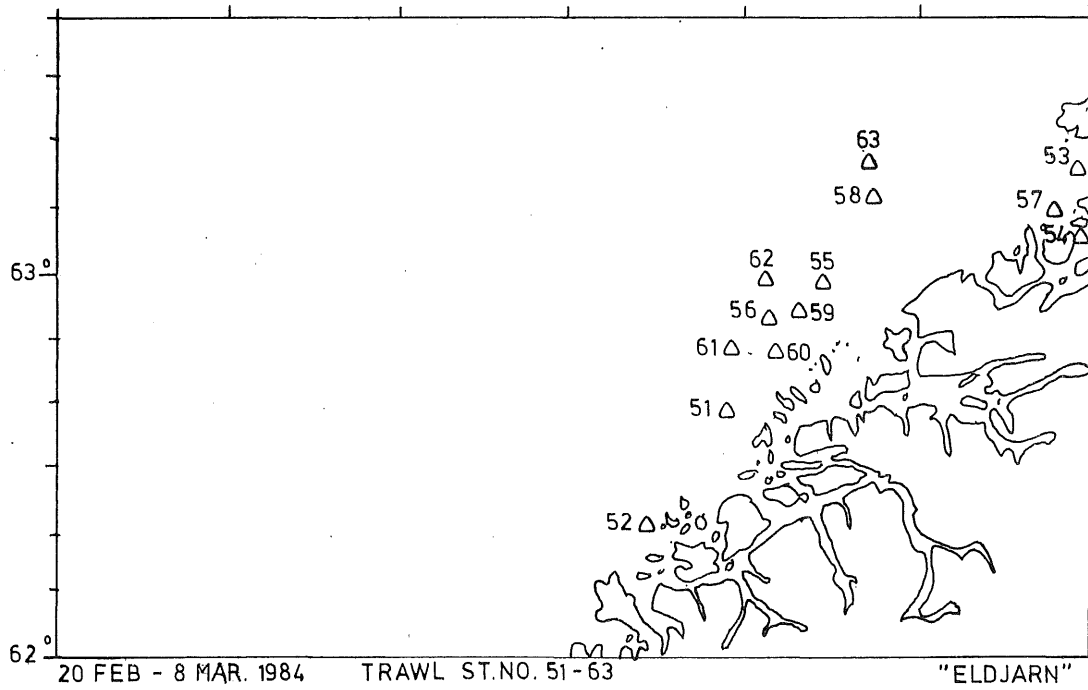
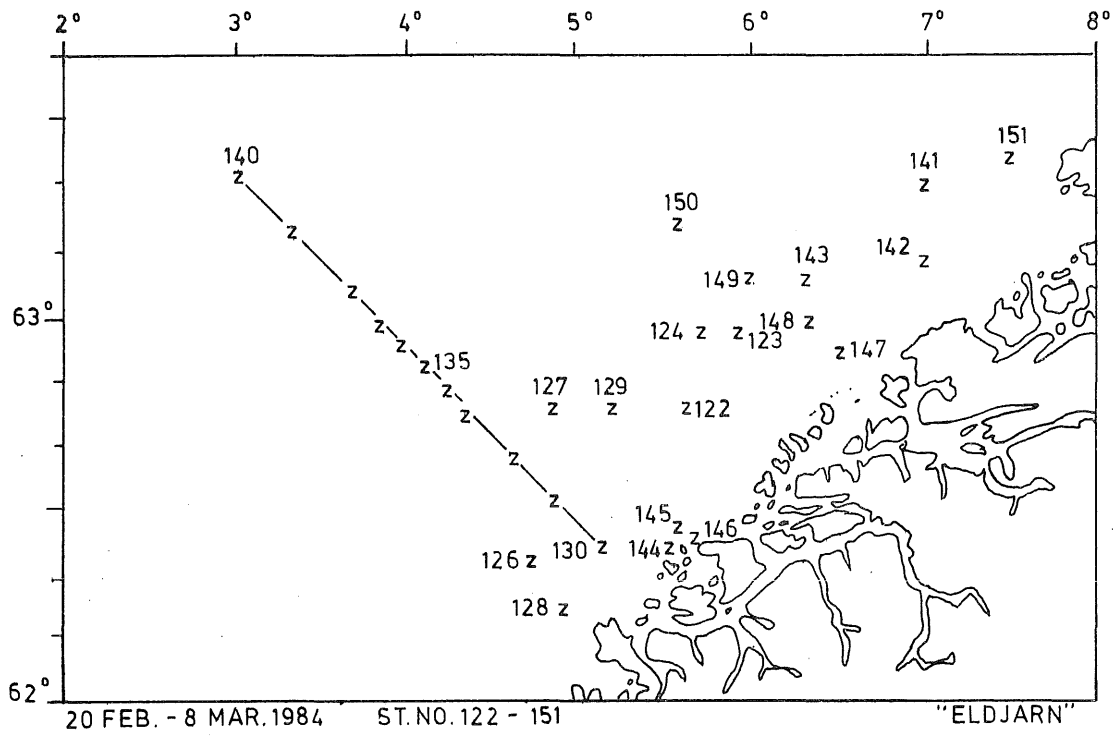


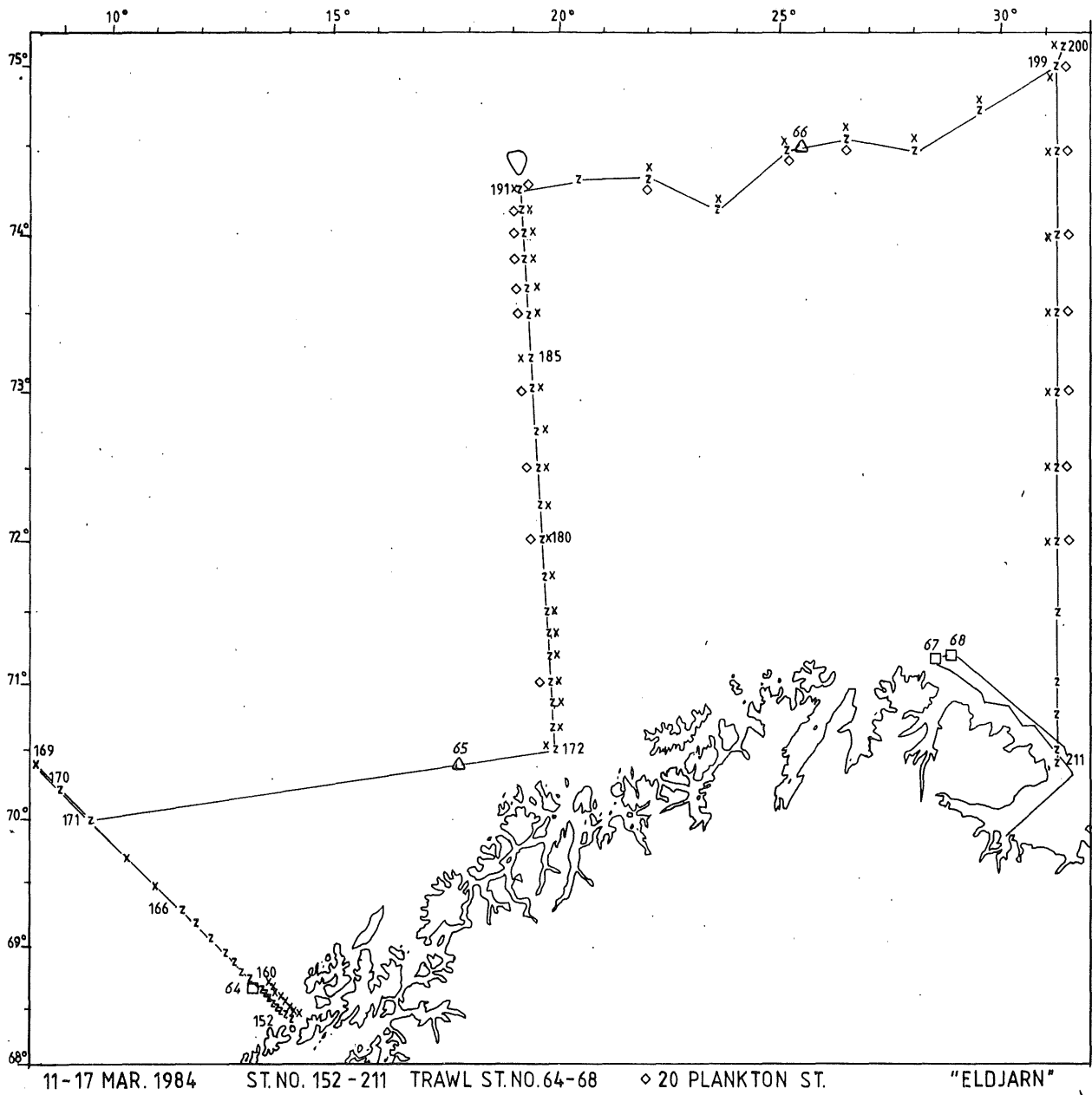
15 NOV. - 5 DEC. 1984 TRAWL ST. NO. 576-611

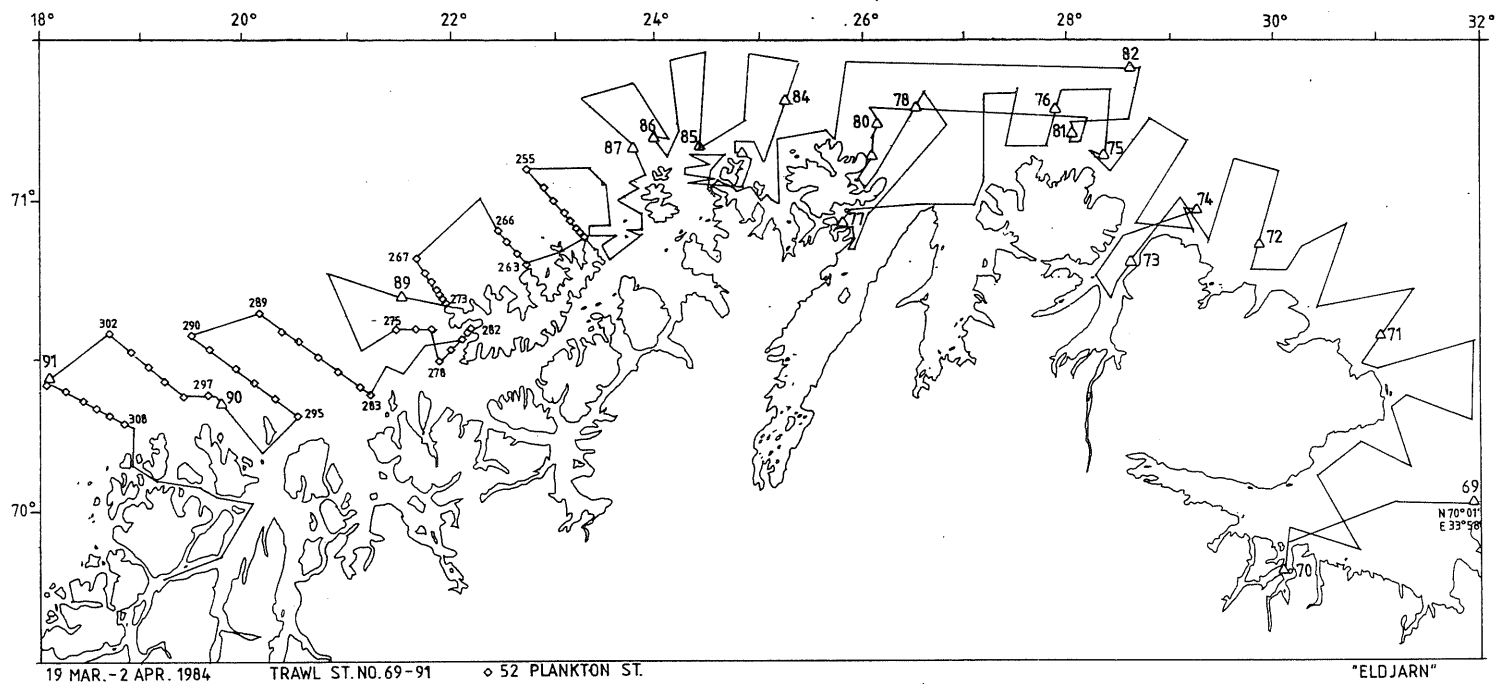
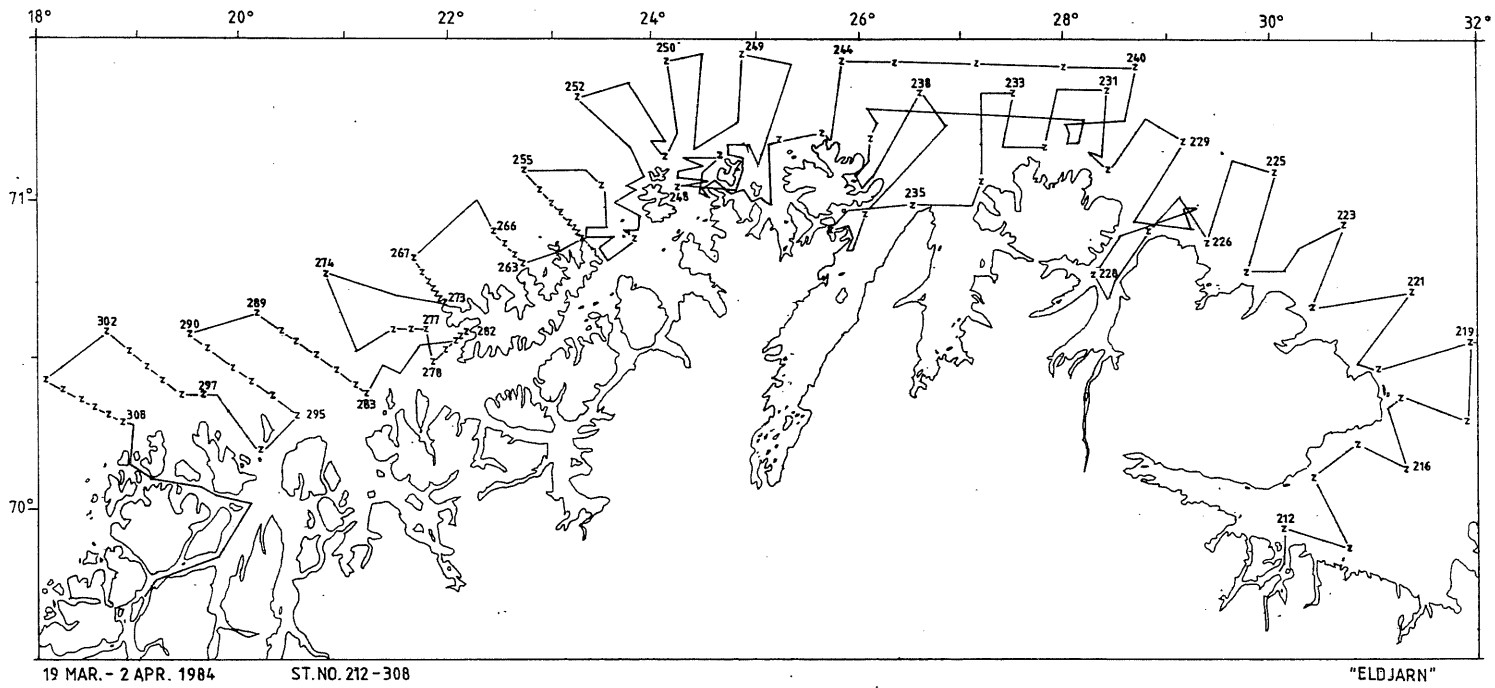
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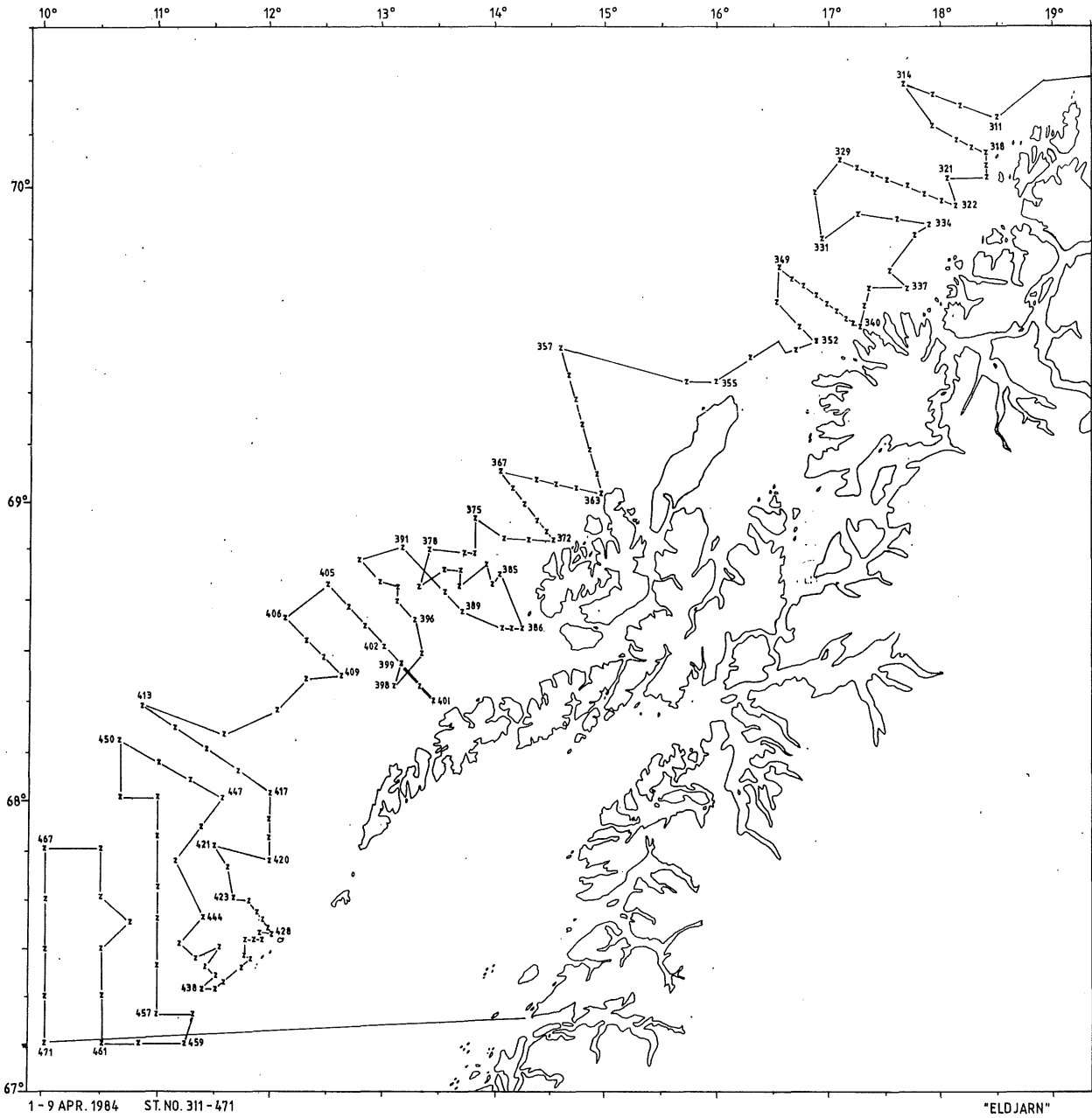


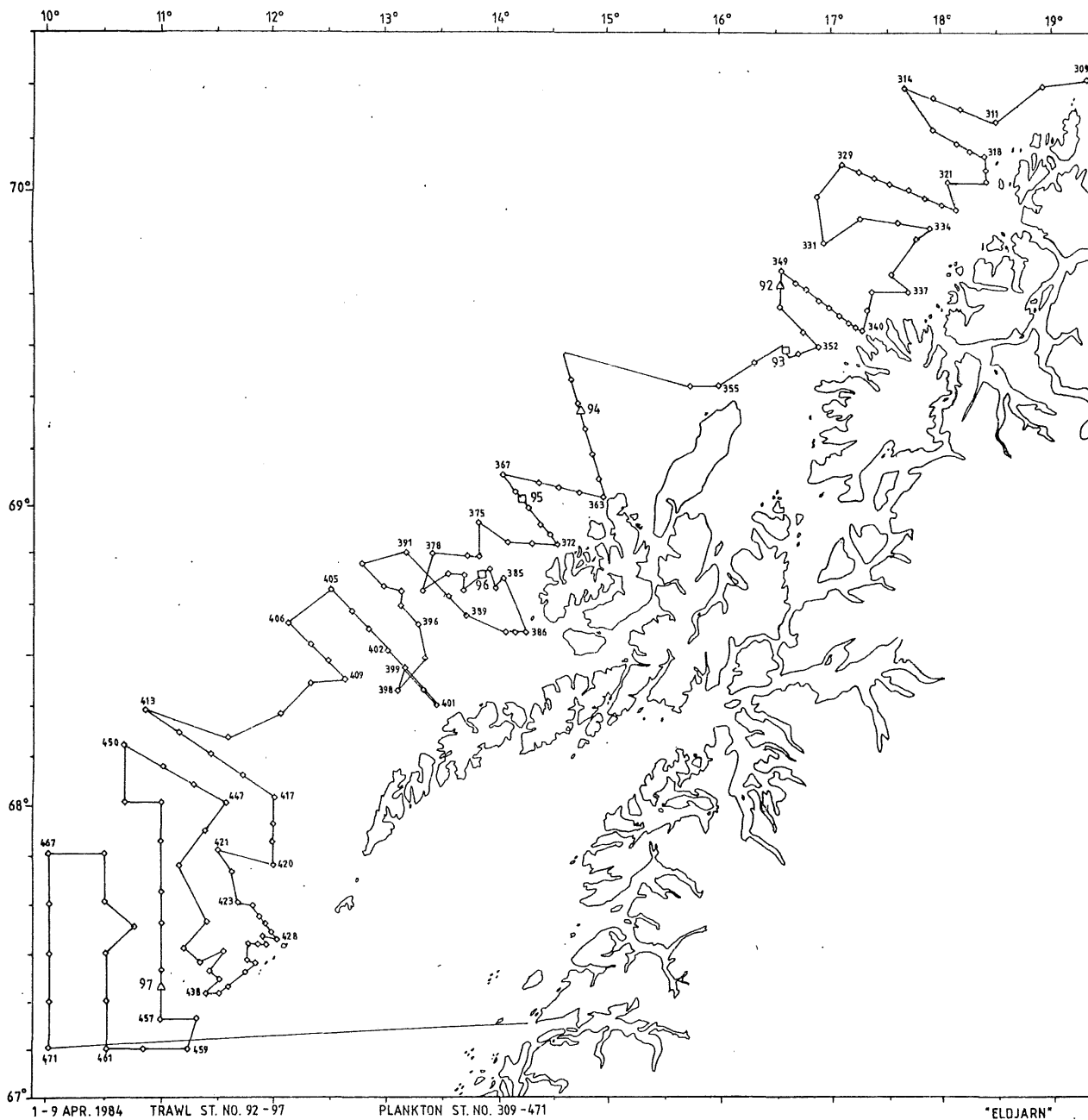


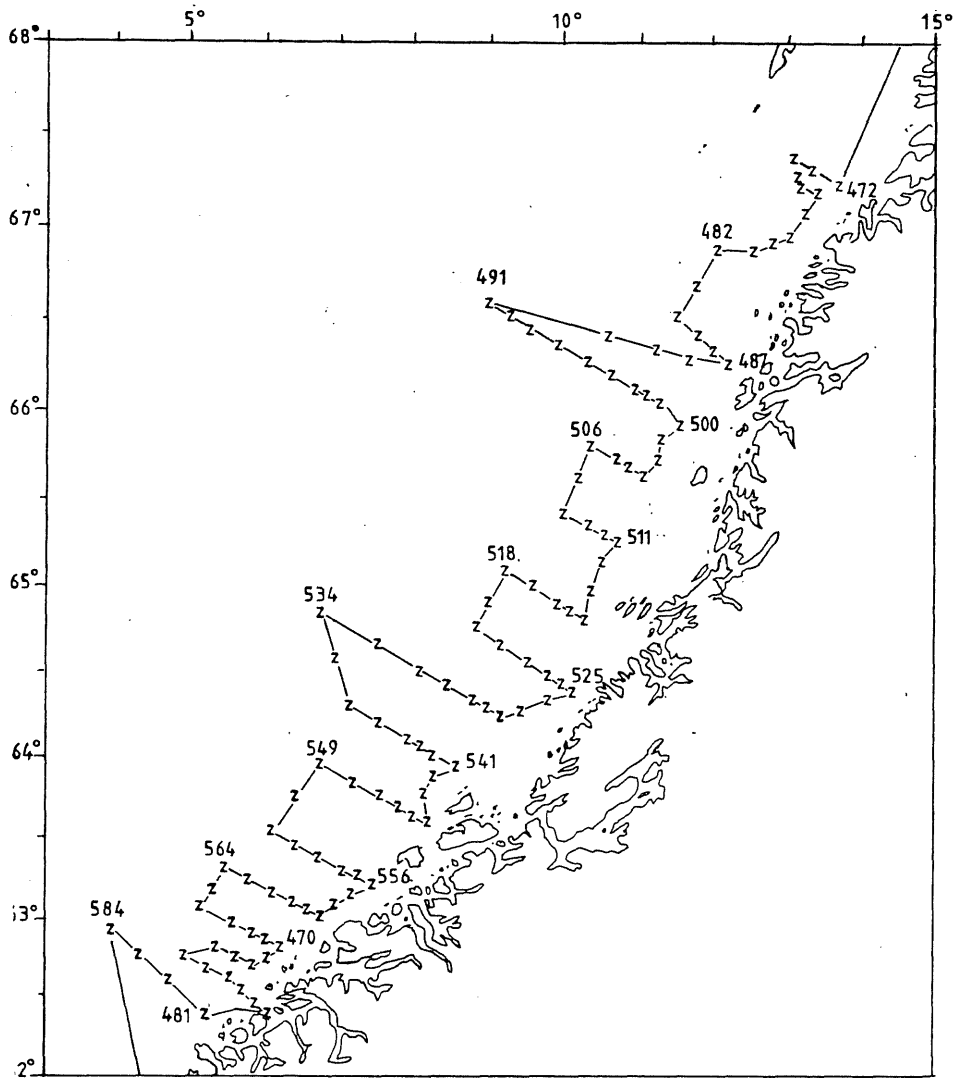






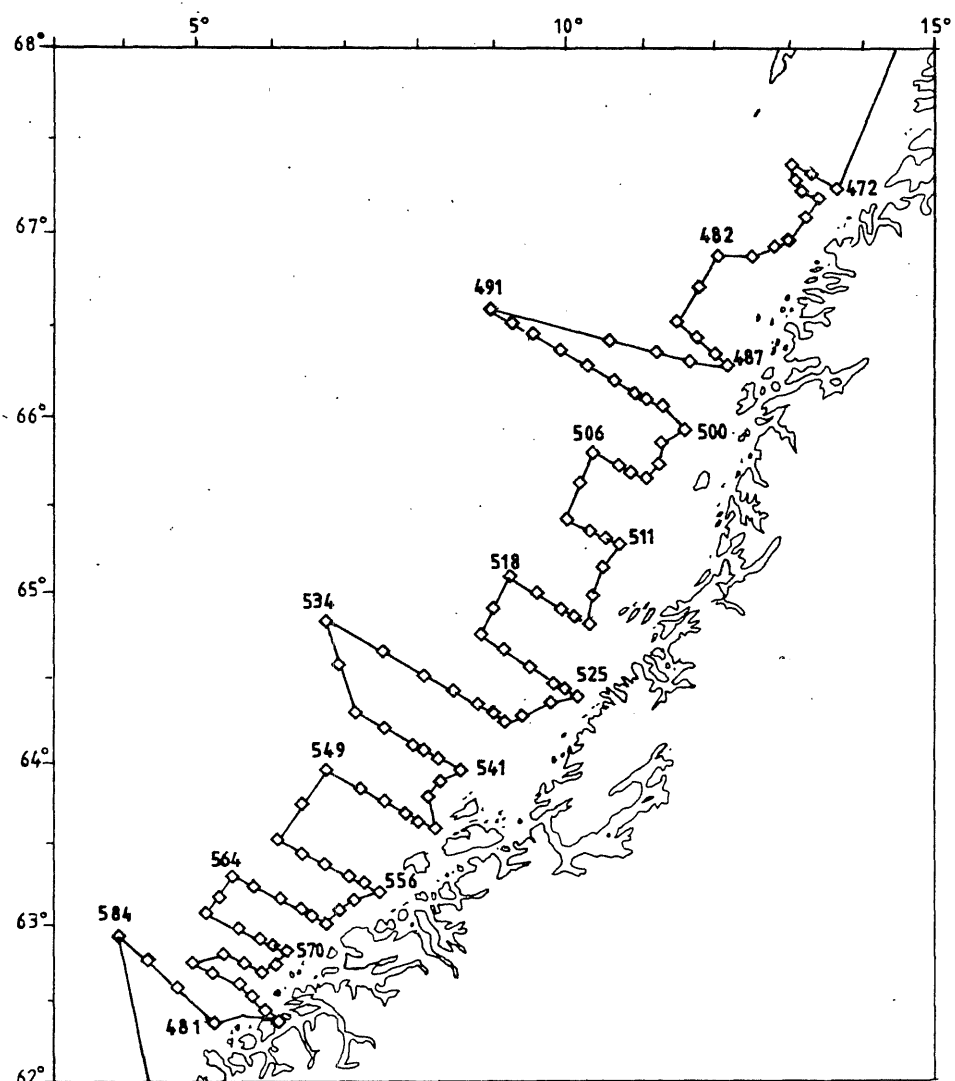






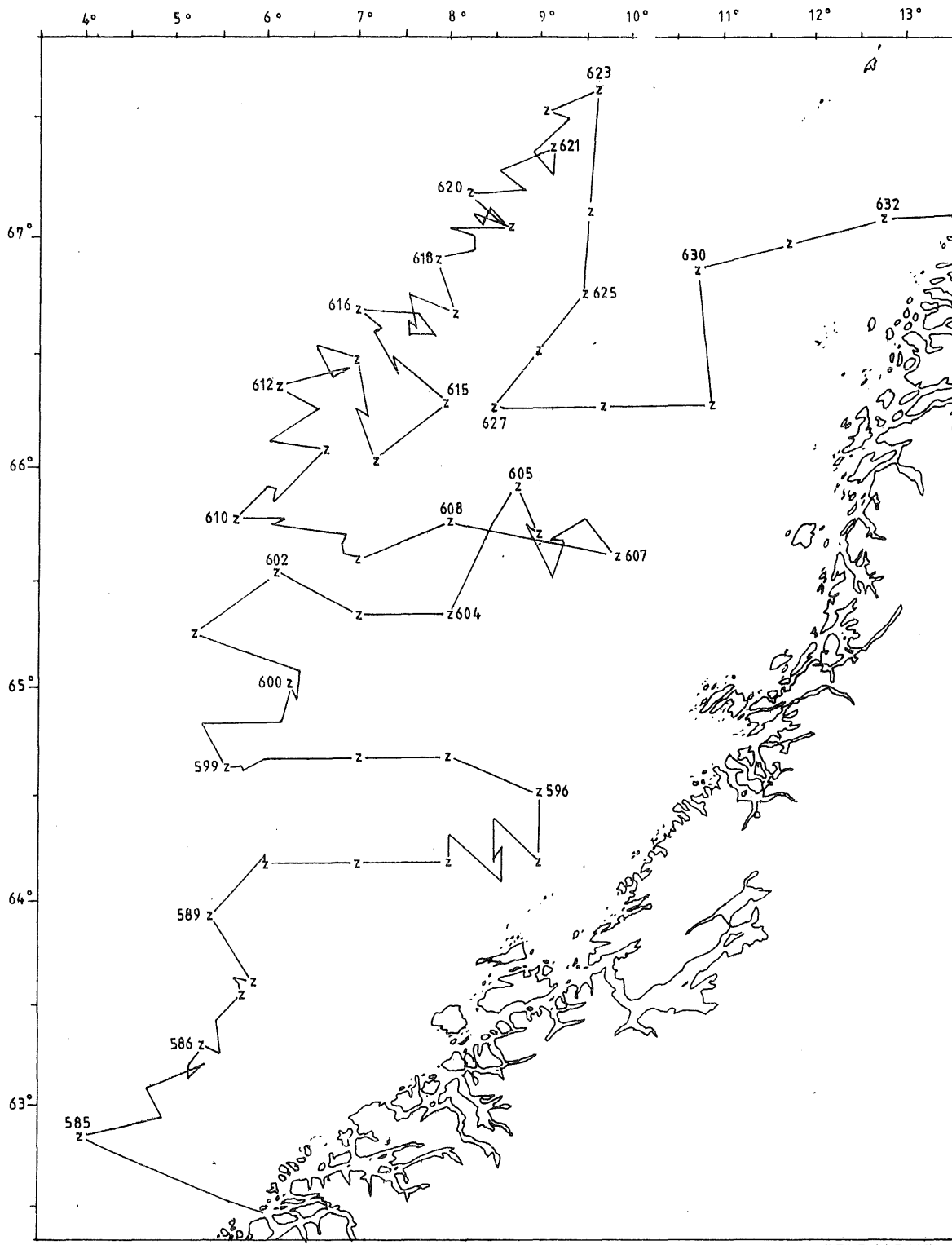
10-18 APR. 1982 ST. NO. 472-584

"ELDJARN"



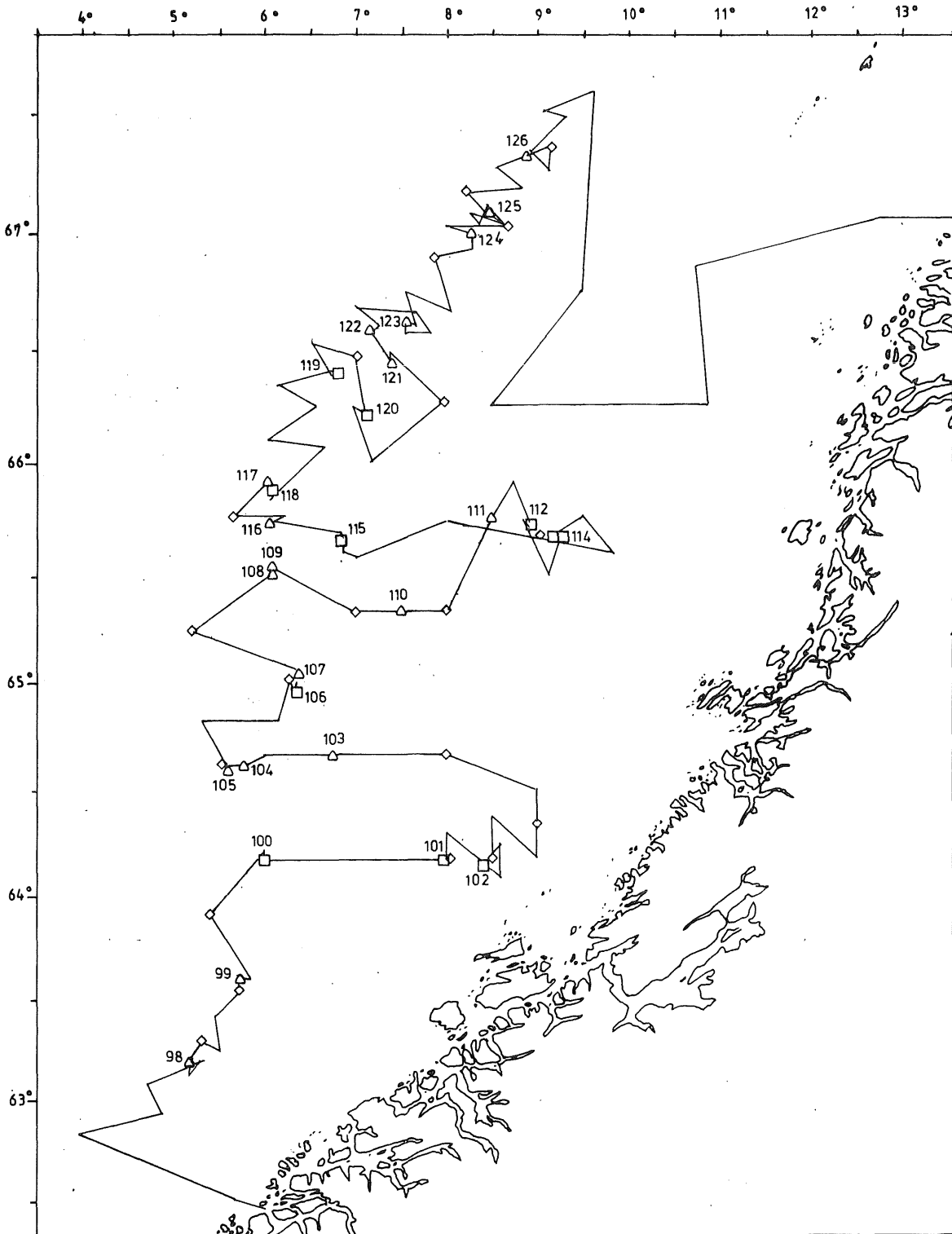
10-18 APR. 1984 PLANKTON ST. NO. 472-584

"ELDJARN"

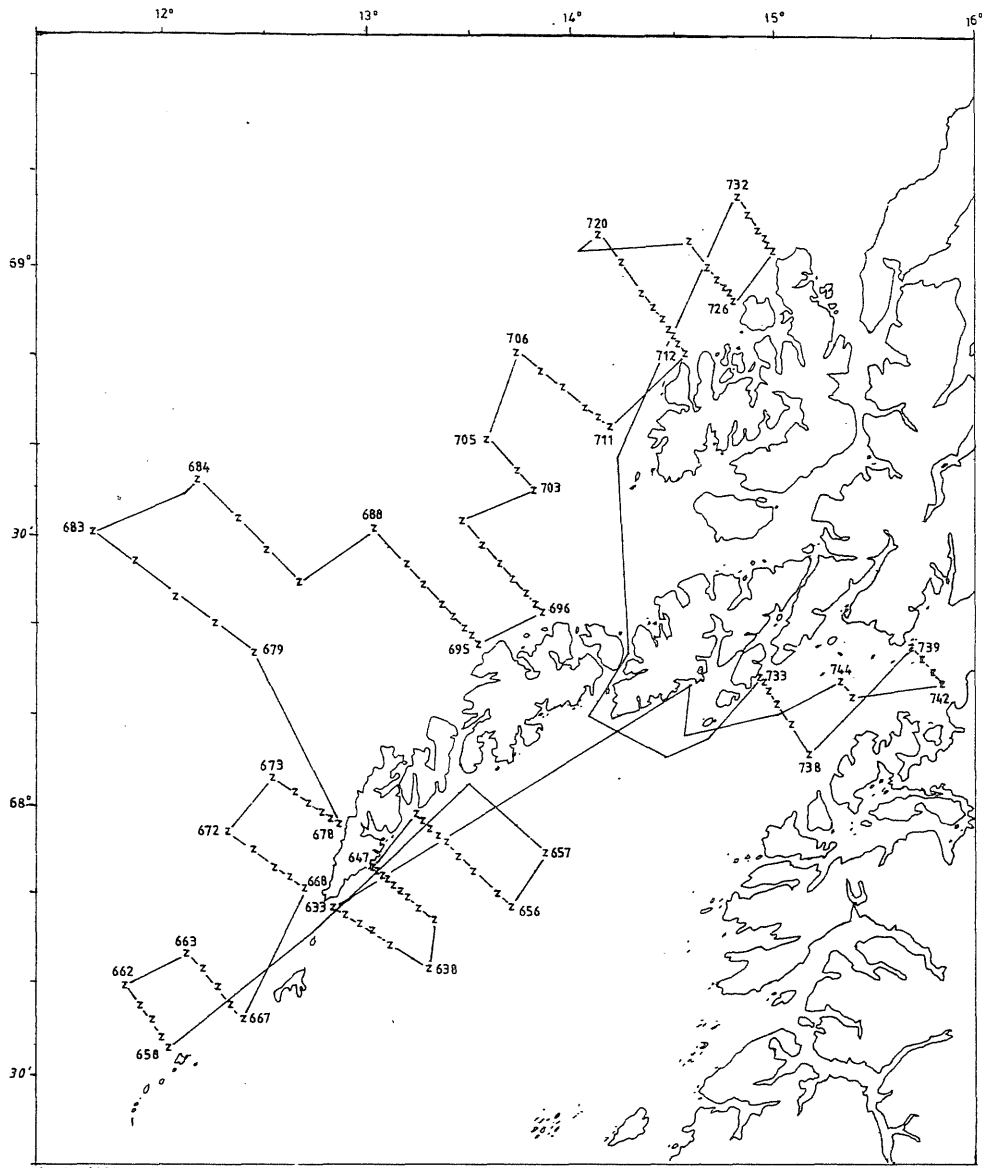


24 APR. - 5 MAY 1984 ST. NO. 585-632

"ELDJARN"

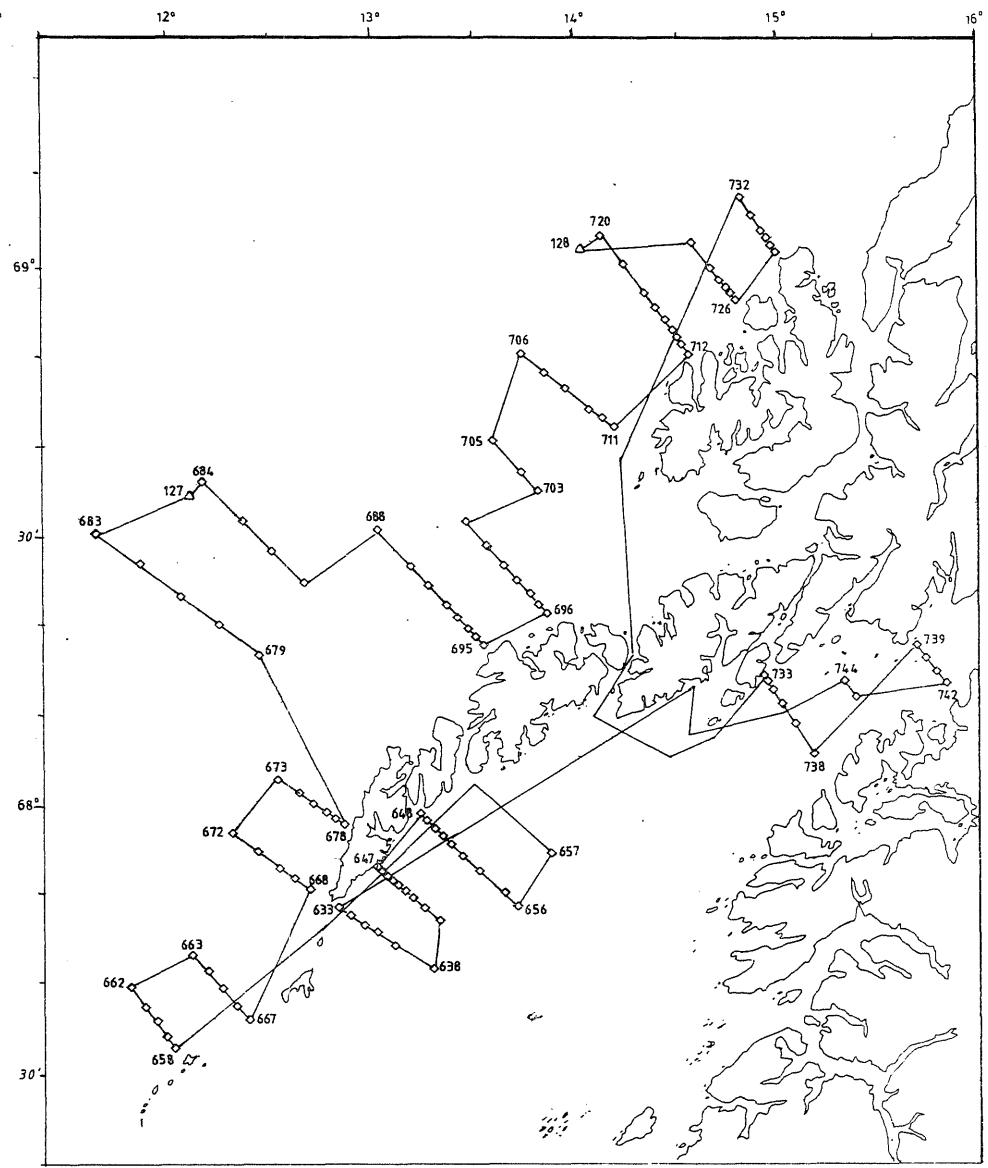


24 APR. - 5 MAY 1984 TRAWL ST. NO. 98-126 ◊ 20 PLANKTON ST. "ELDJARN"



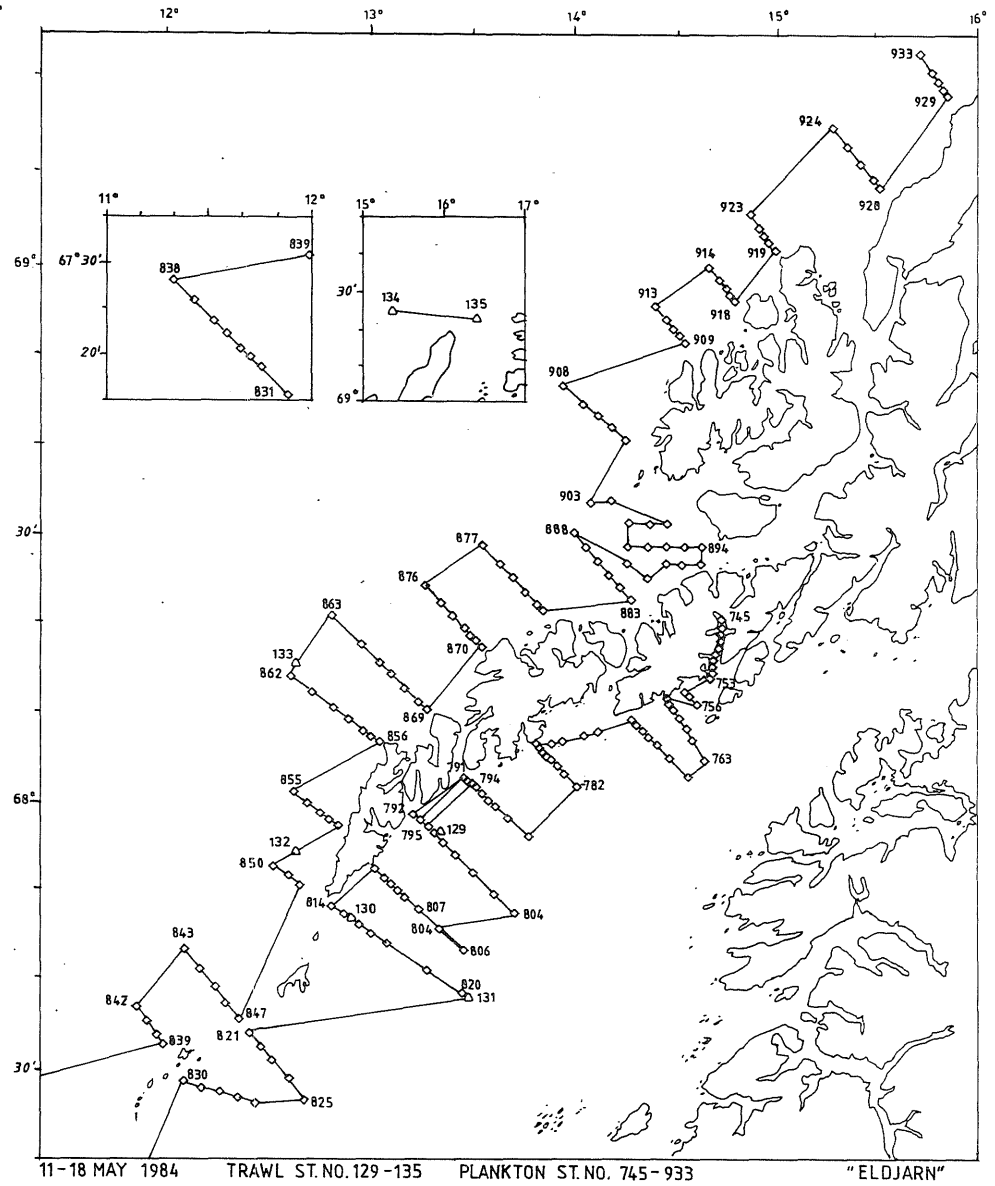
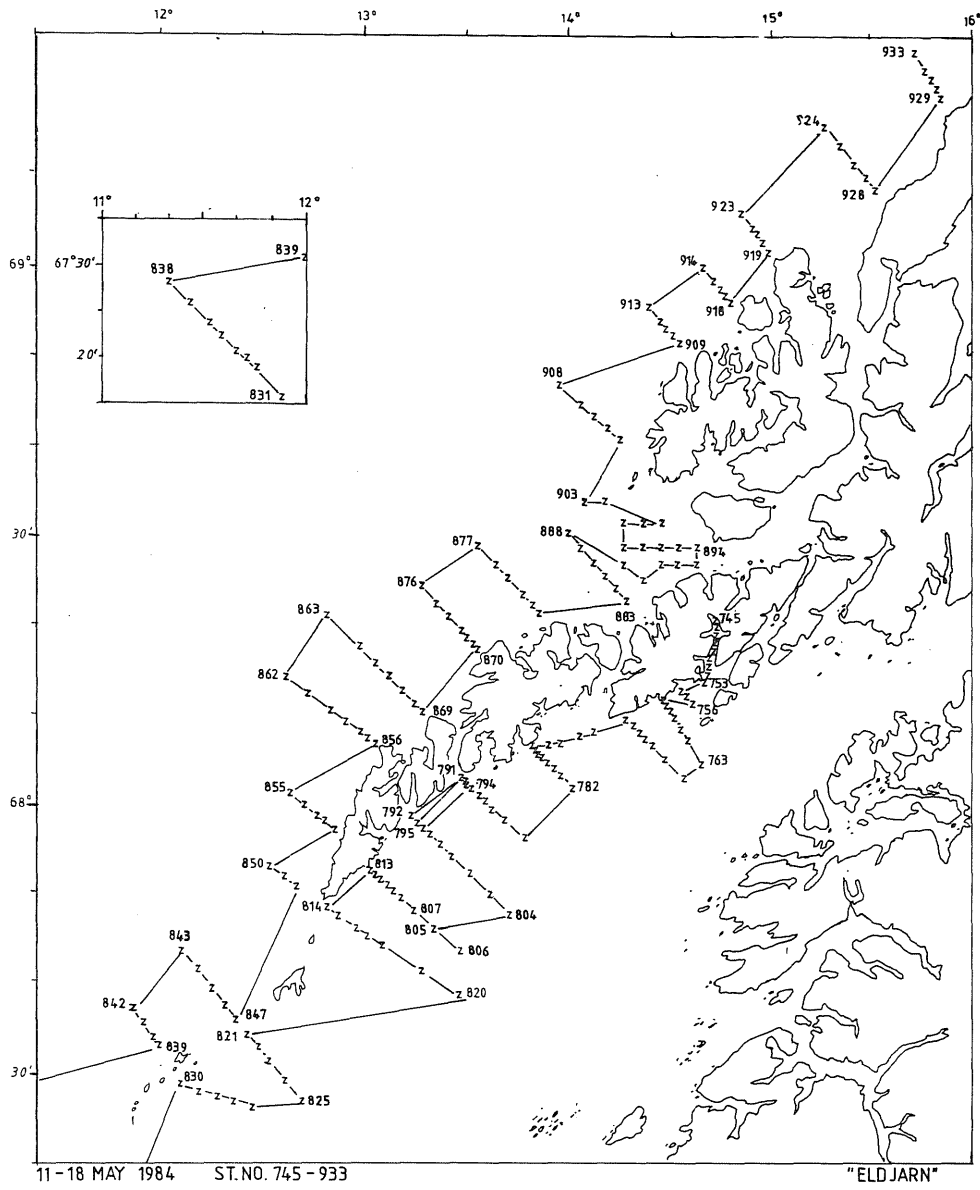
6-10 MAY 1984 ST. NO. 633-744

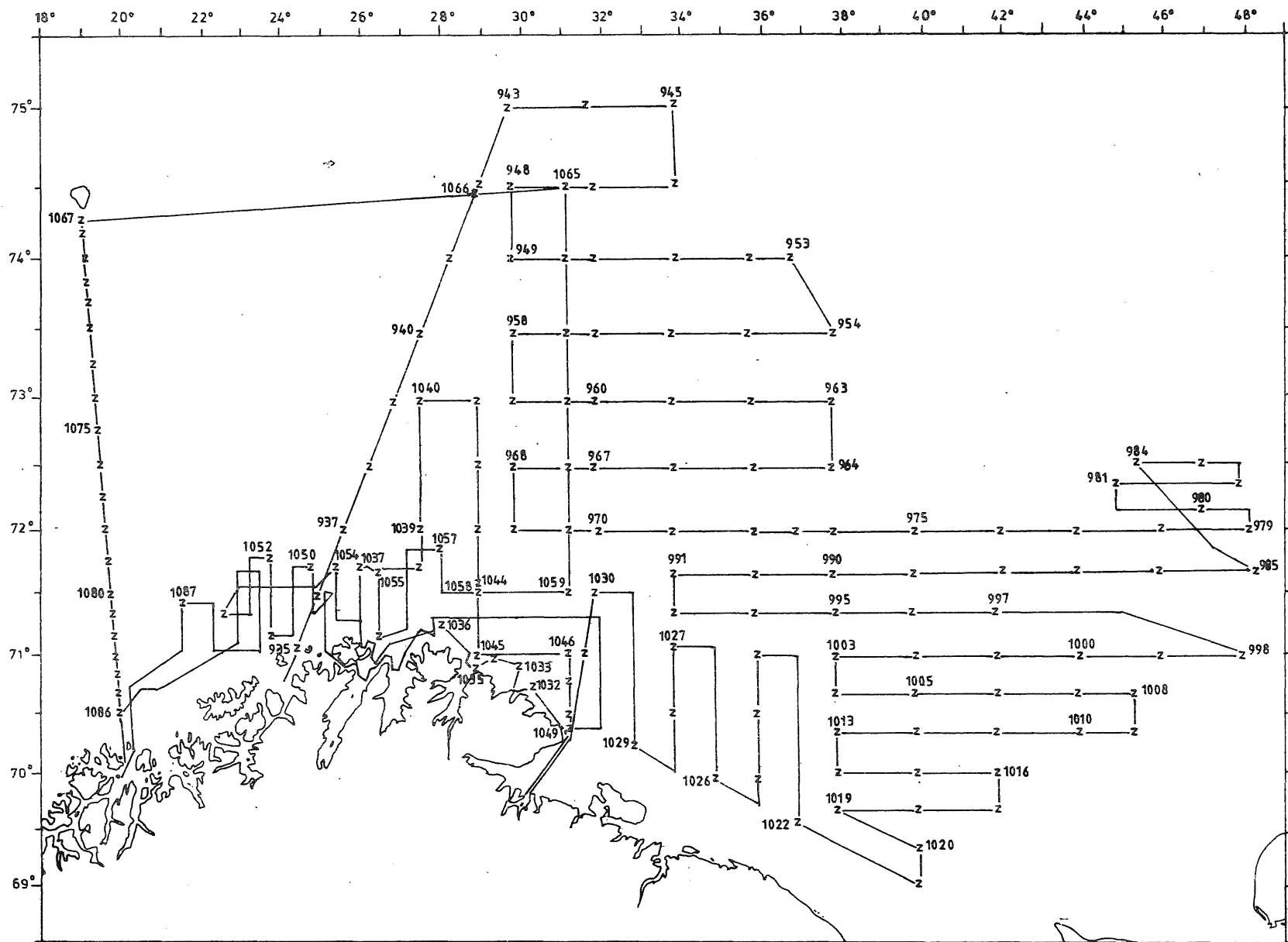
"ELD JARN"



6-10 MAY 1984 TRAWL ST. NO. 127-128 PLANKTON ST. NO. 633-744

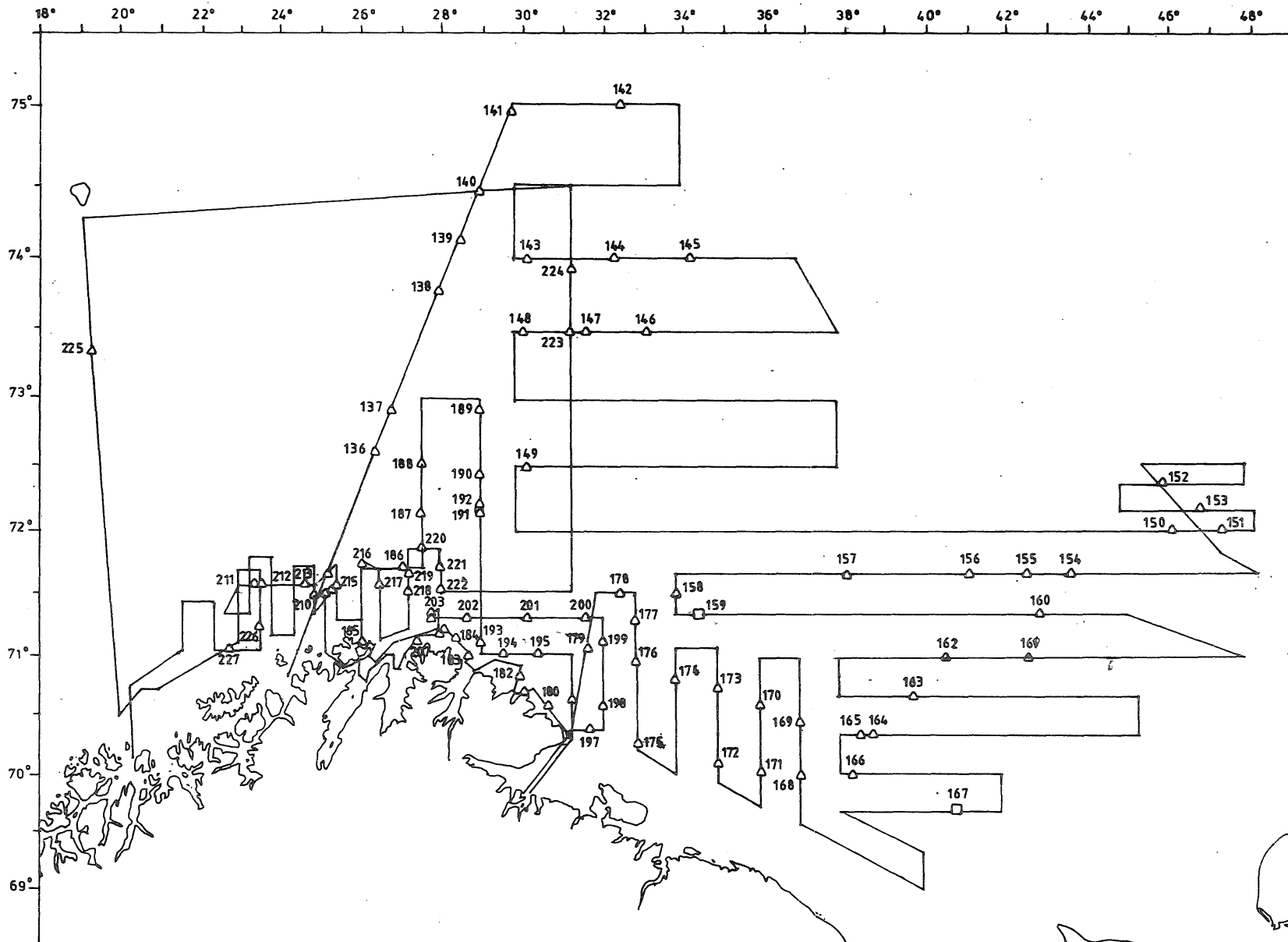
"ELD JARN"





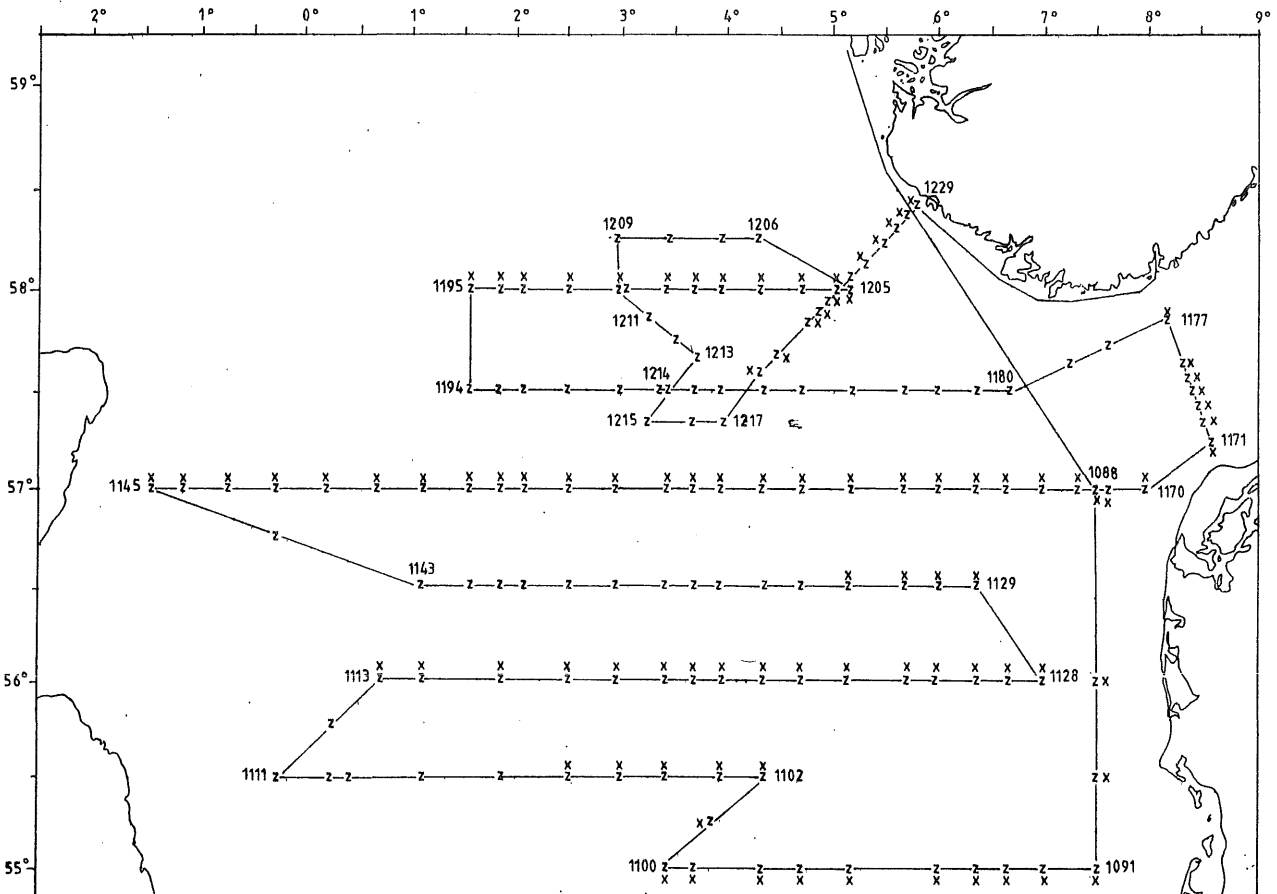
19 MAY - 26 JUN. 1984 ST. NO. 935 - 1087

"ELDJARN"

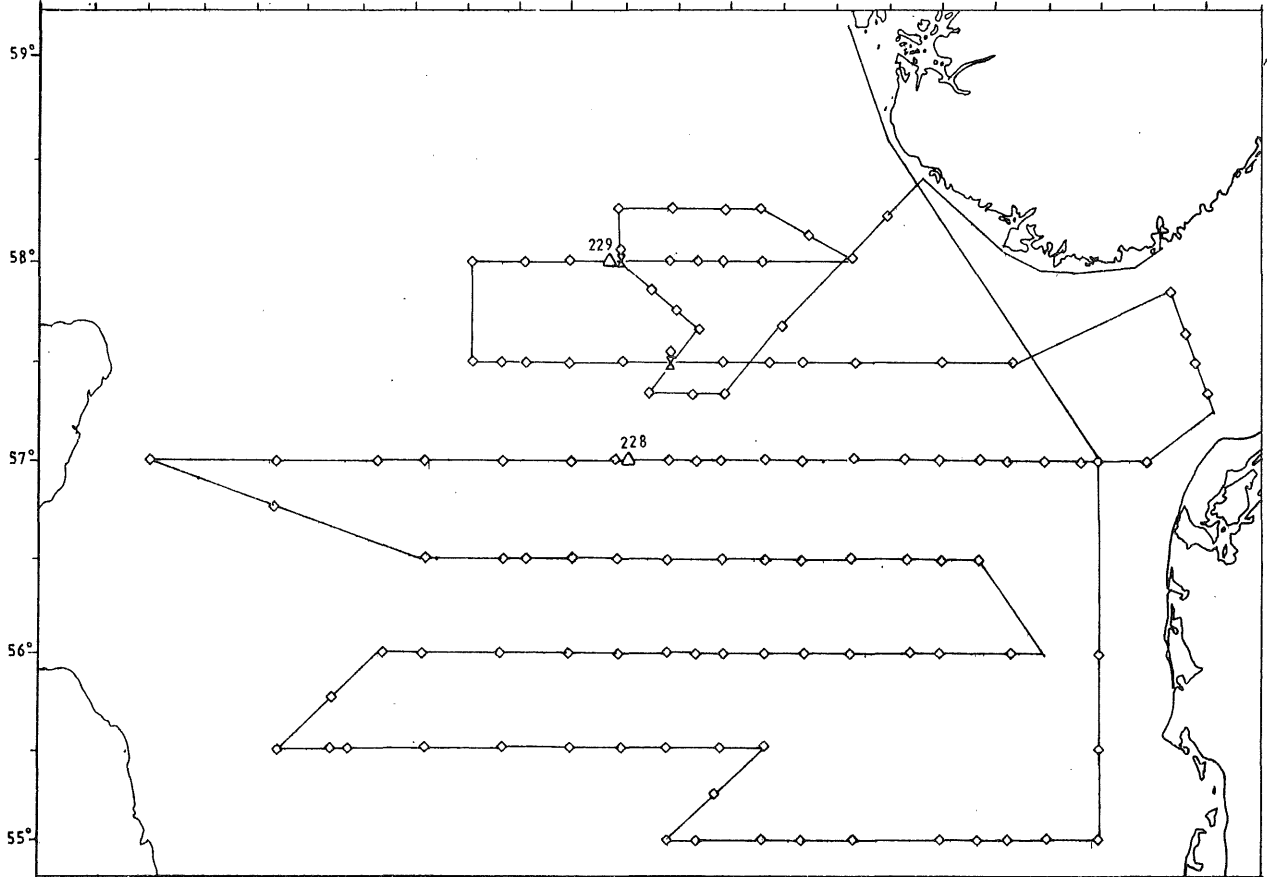


19 MAY - 26 JUN. 1984 TRAWL ST. NO. 136 - 227

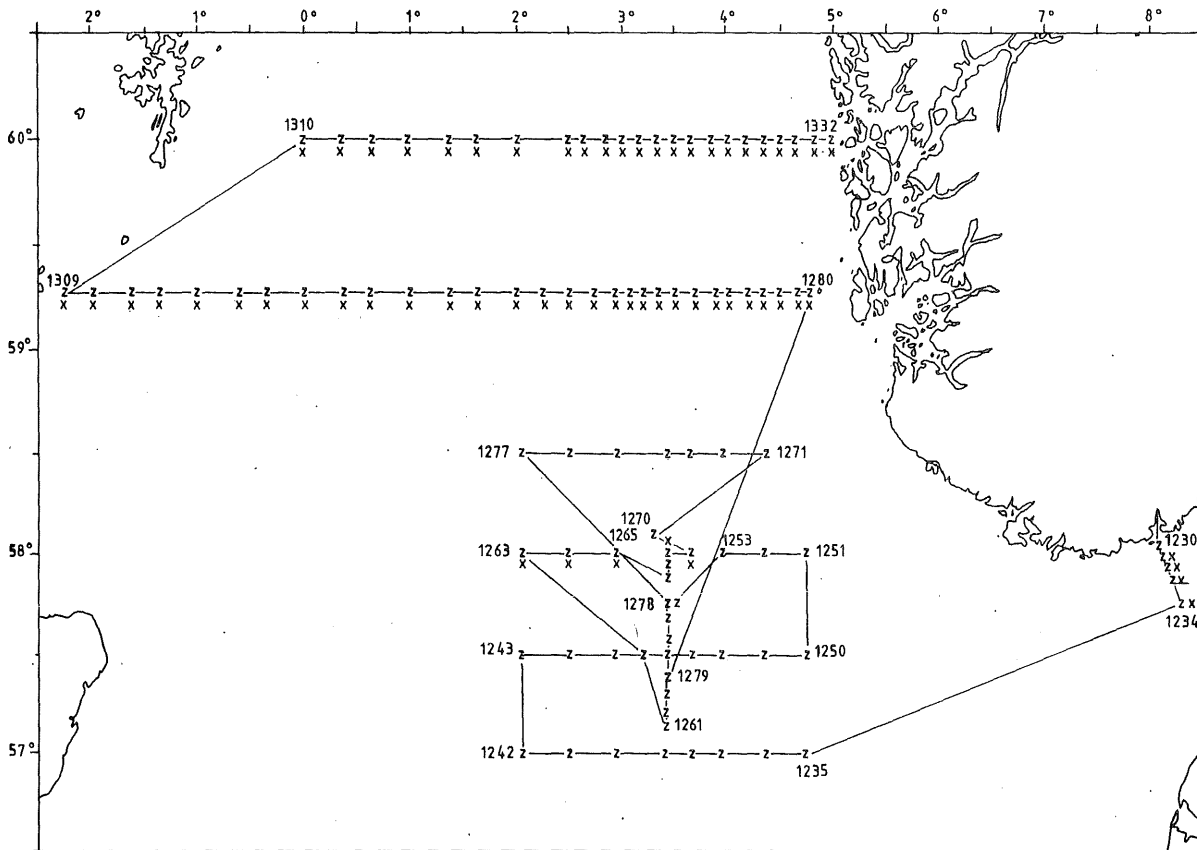
"ELDJARN"



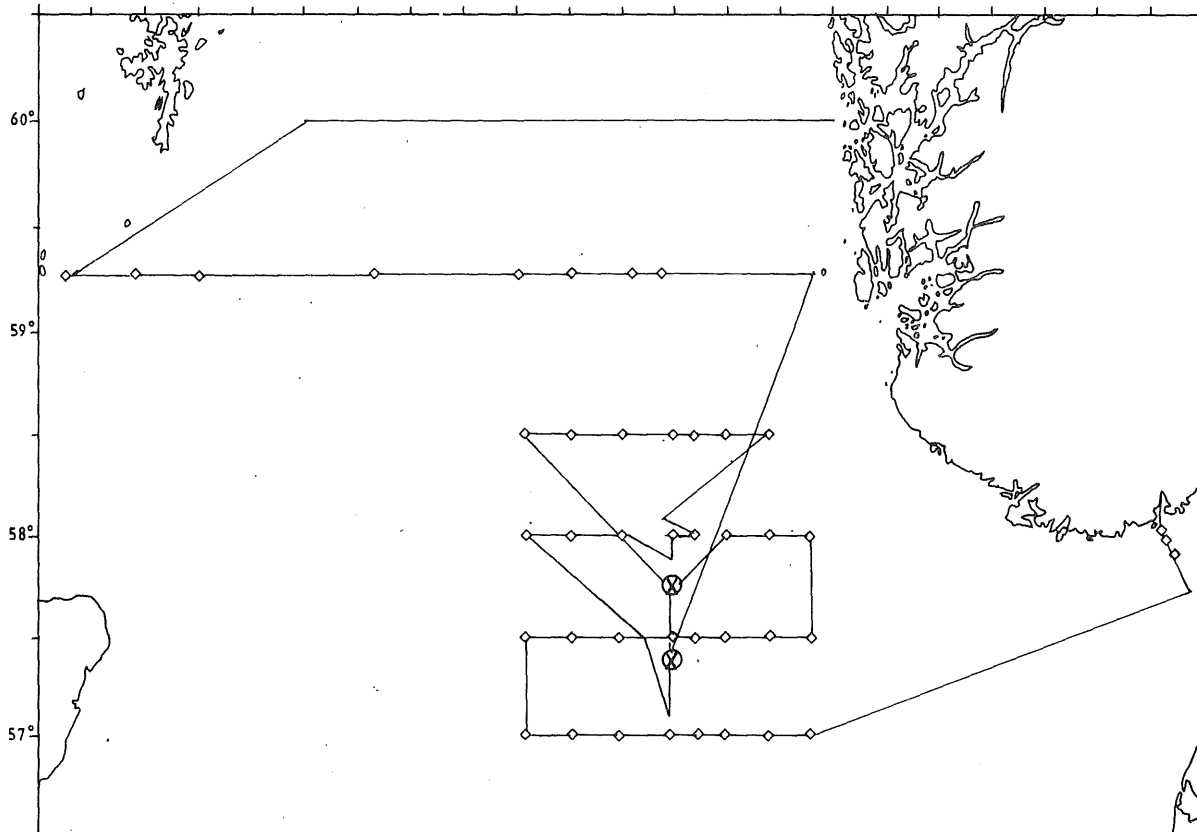
27 JUN. - 11 JUL. 1984 ST. NO. 1088 - 1229 x NUTRIENTS ST. "ELDJARN"



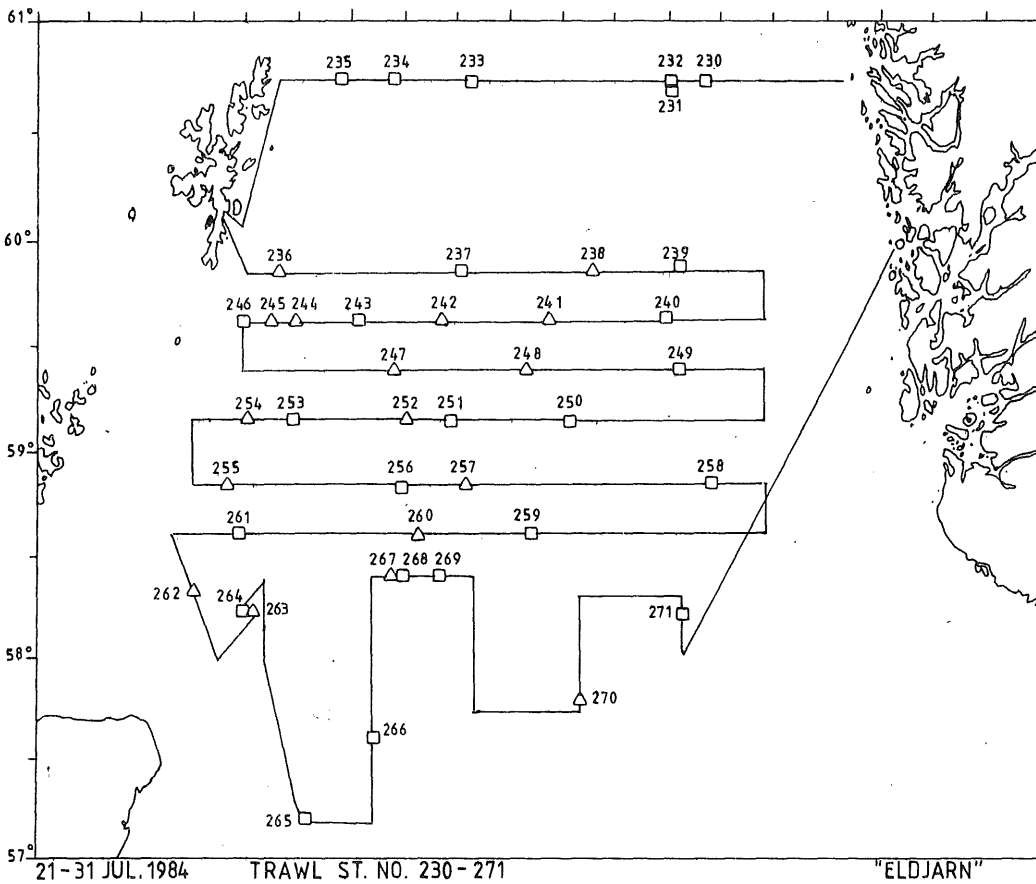
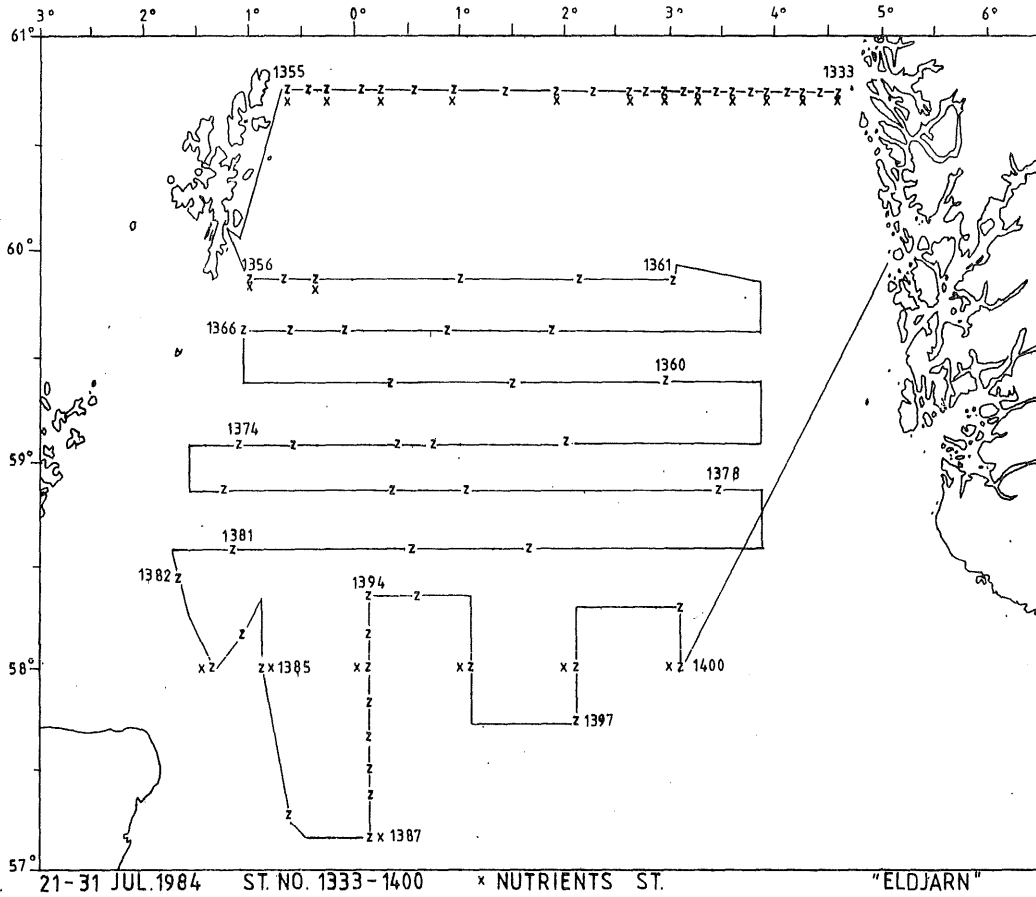
27 JUN. - 11 JUL. 1984 ◊ PLANKTON ST. △ TRAWL ST. NO. 228 - 229 z 2 ARGOS BUOY "ELDJARN"

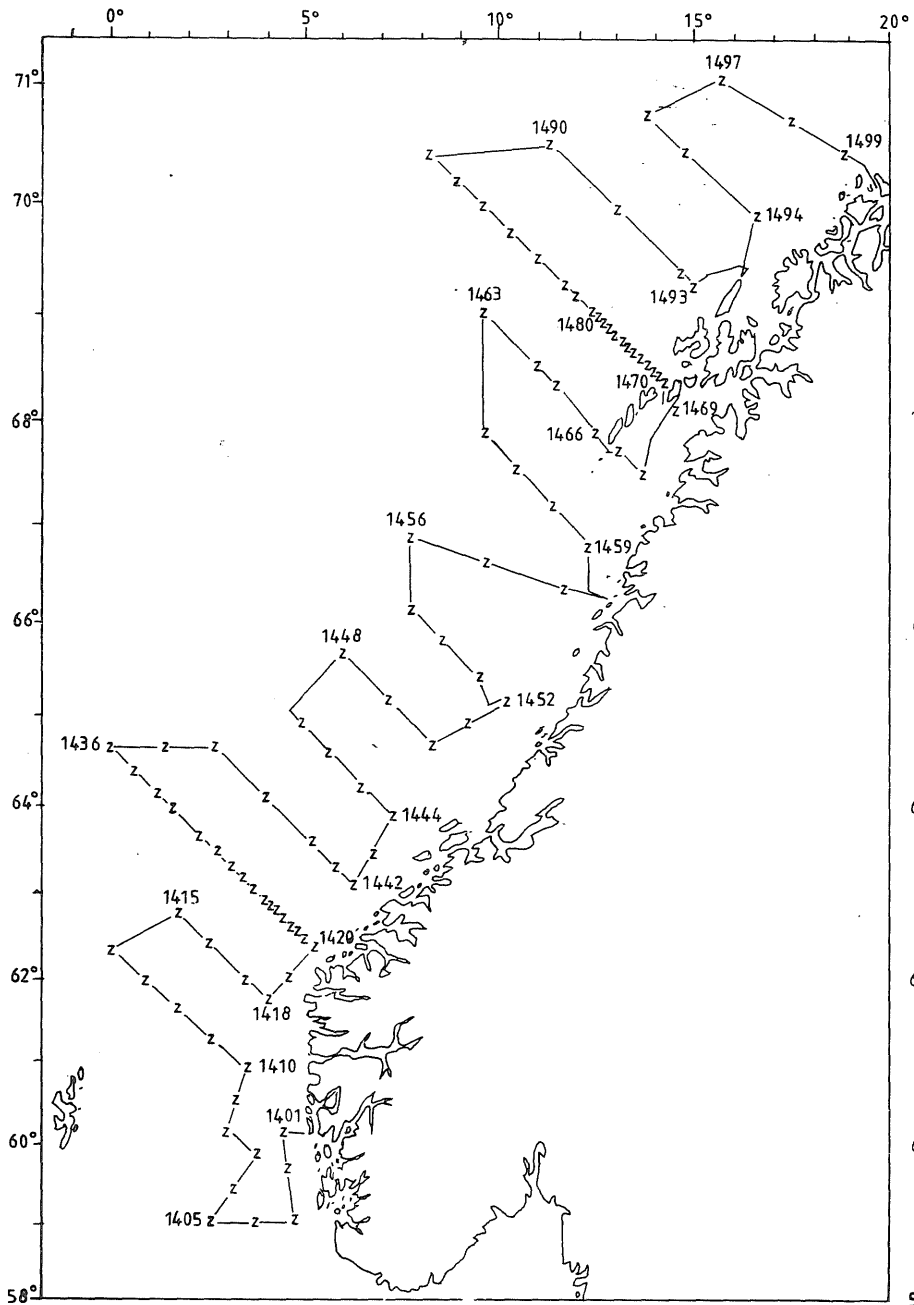


11-18 JUL. 1984 ST.NO. 1230-1332 * NUTRIENTS ST. "ELD JARN"

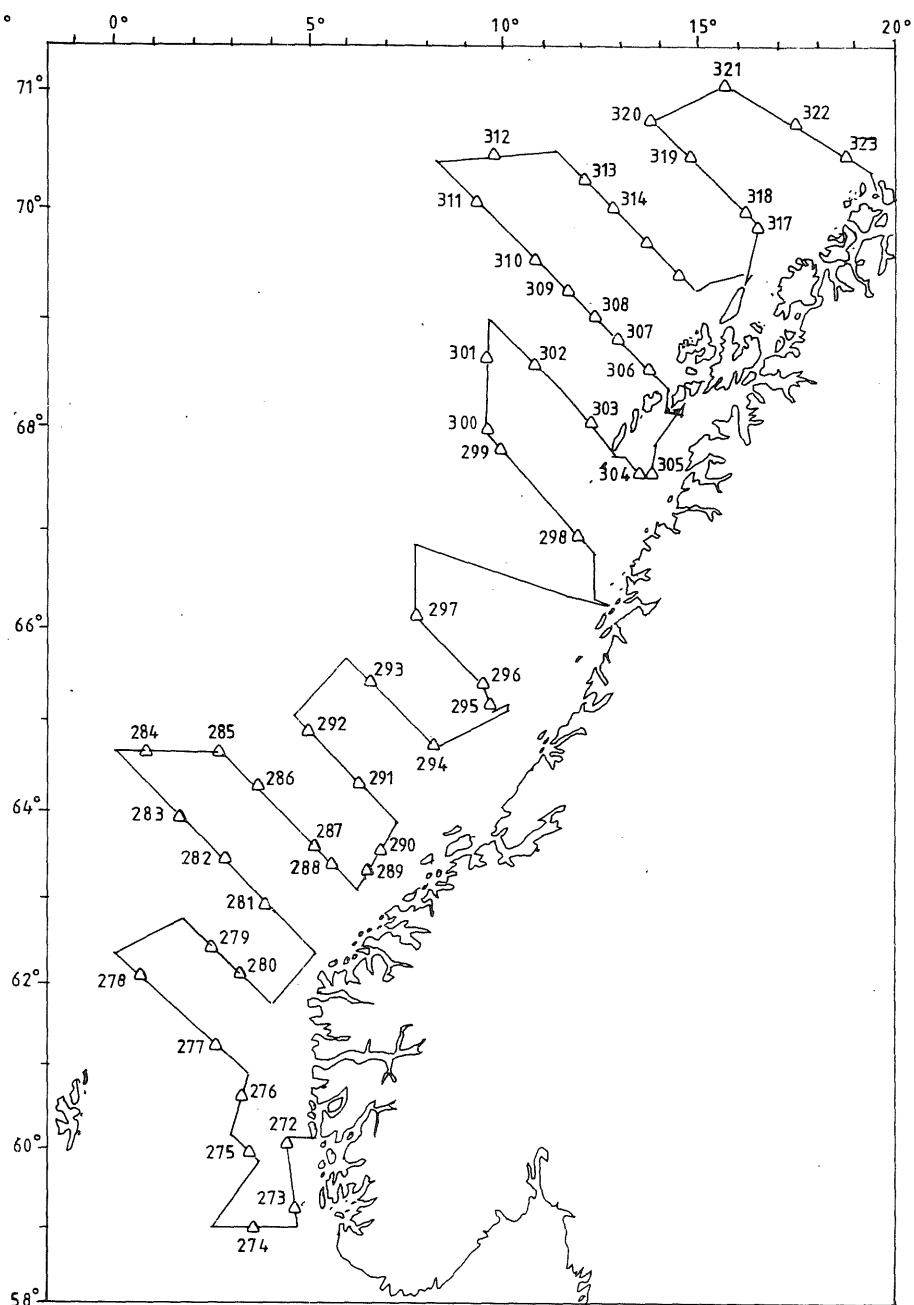


11-18 JUL. 1984 PLANKTON ST. ⊗ 2 MOORED BUOY "ELD JARN"



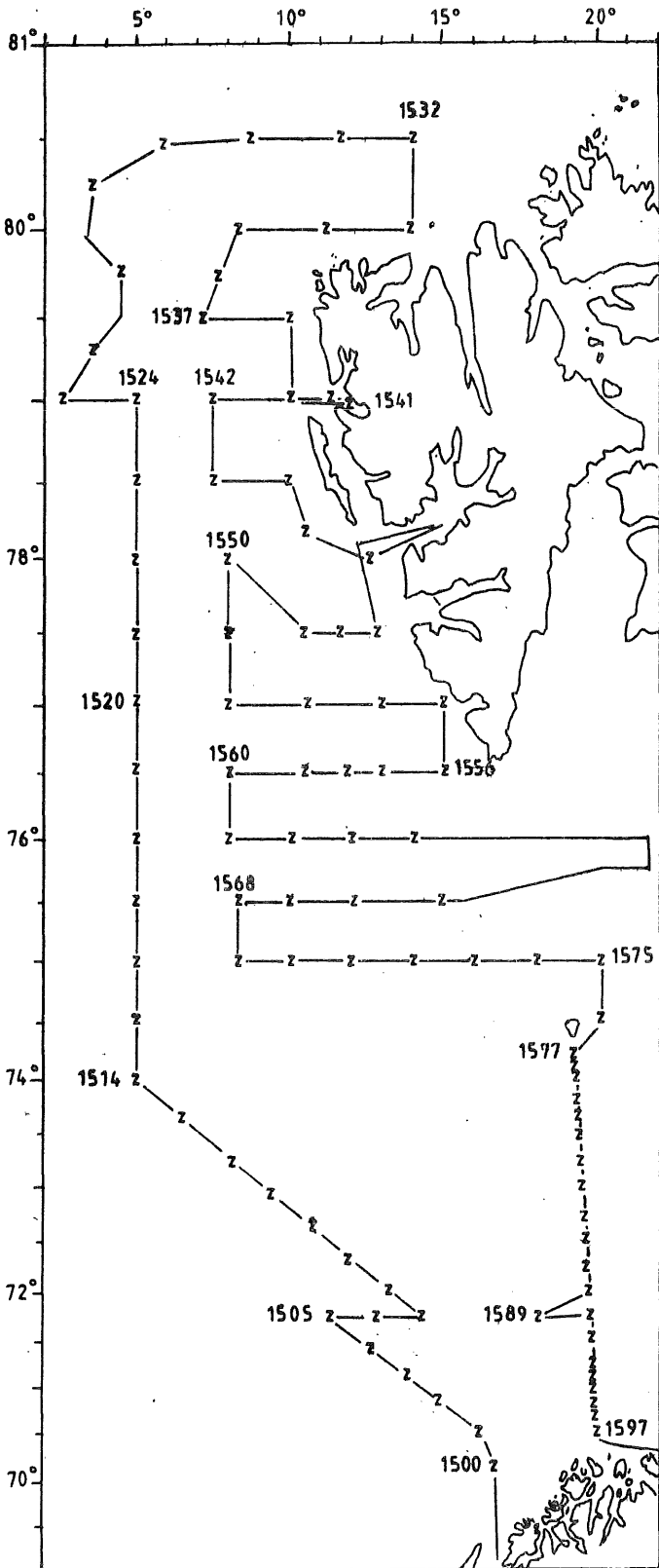


1-18 AUG. 1984 ST. NO. 1401-1499

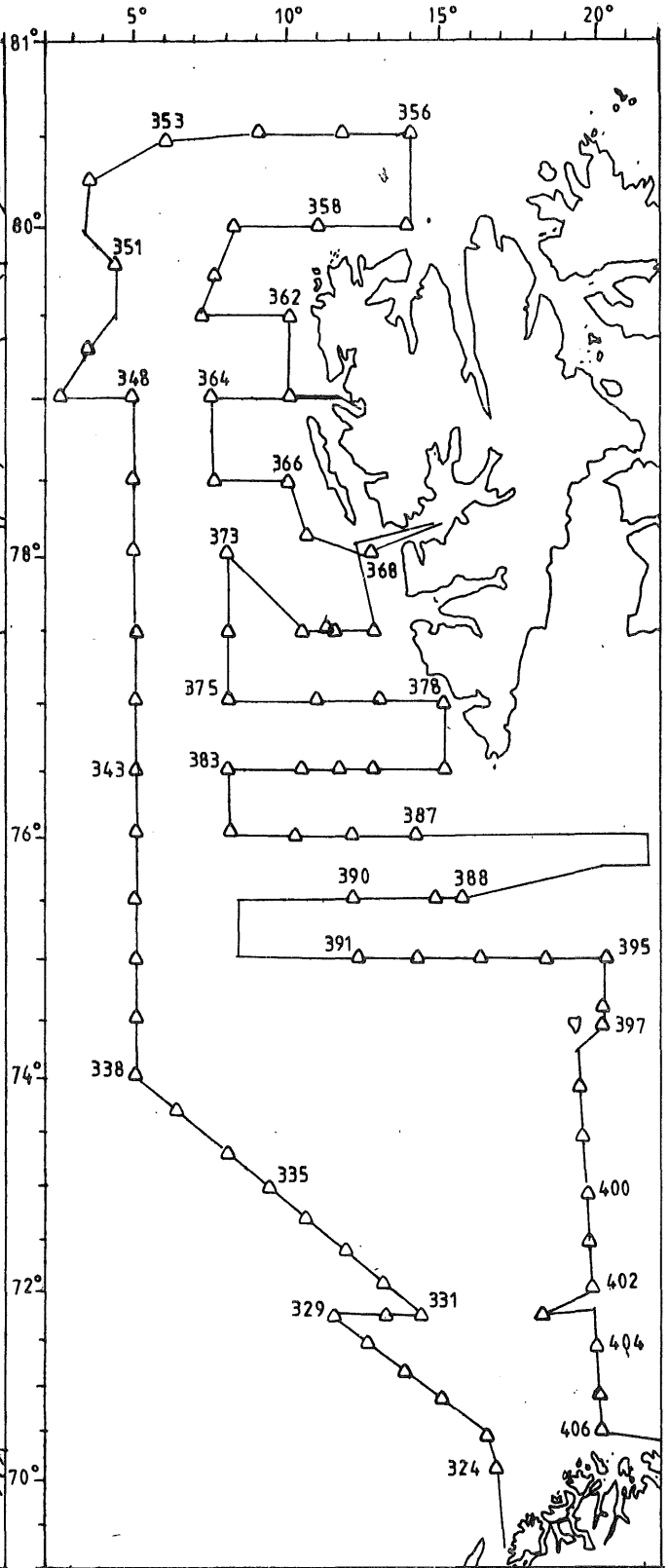


TRAWL ST. NO. 272-323

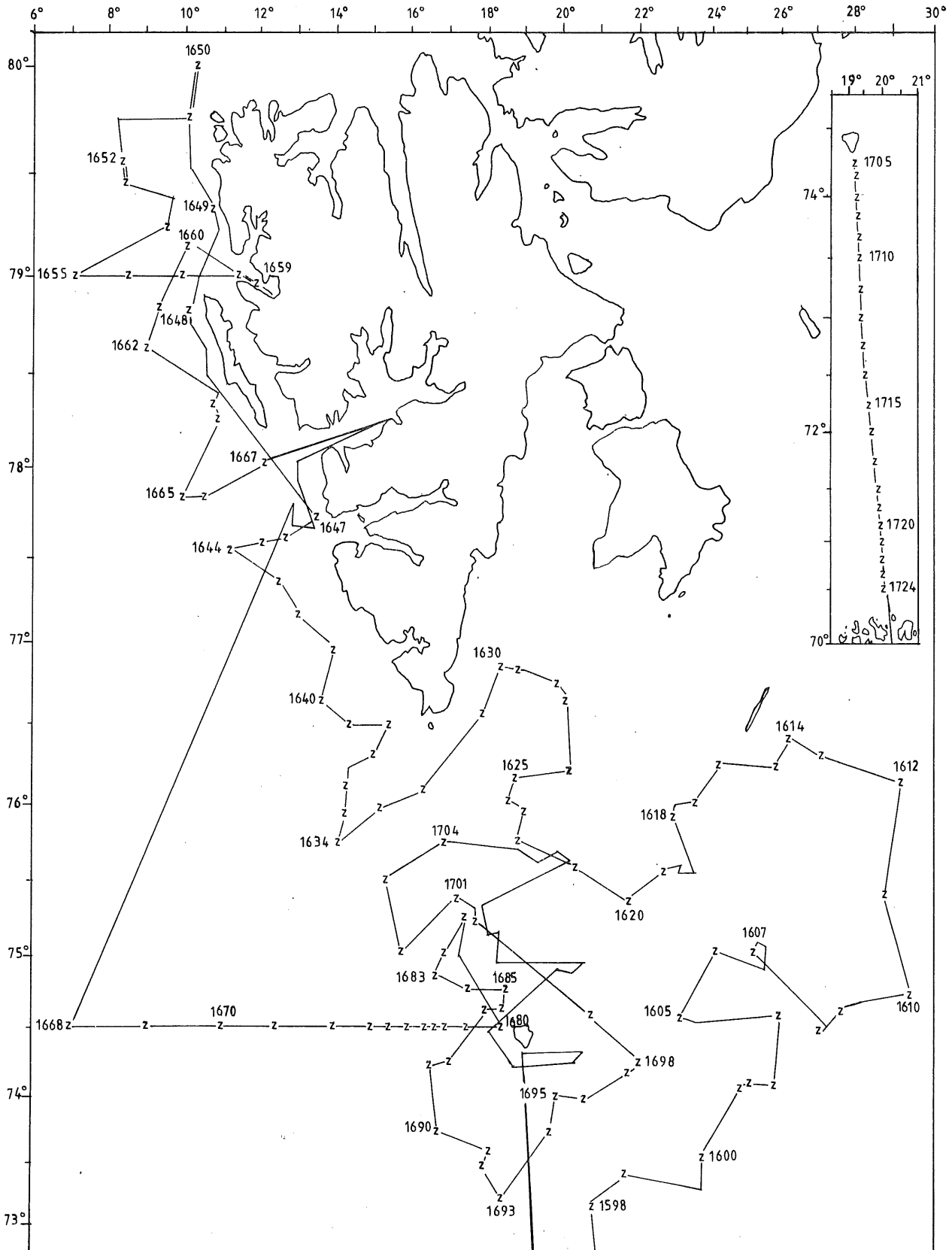
"ELDJARN"



19 AUG. - 5 SEP. 1984 ST. NO. 1500 - 1597



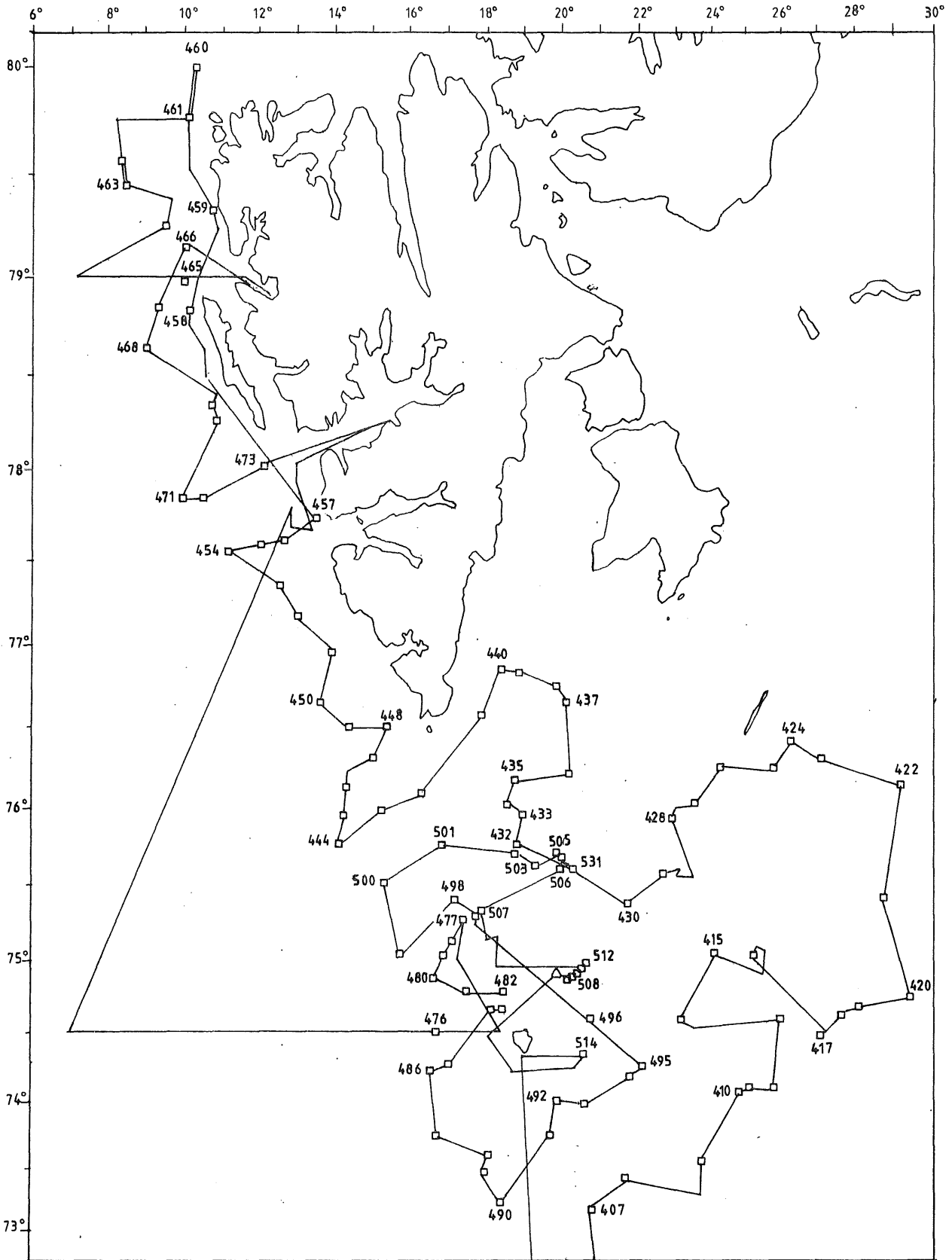
TRAWL ST. NO. 324 - 406 "ELDJARN"



7 SEP. - 4 OCT. 1984

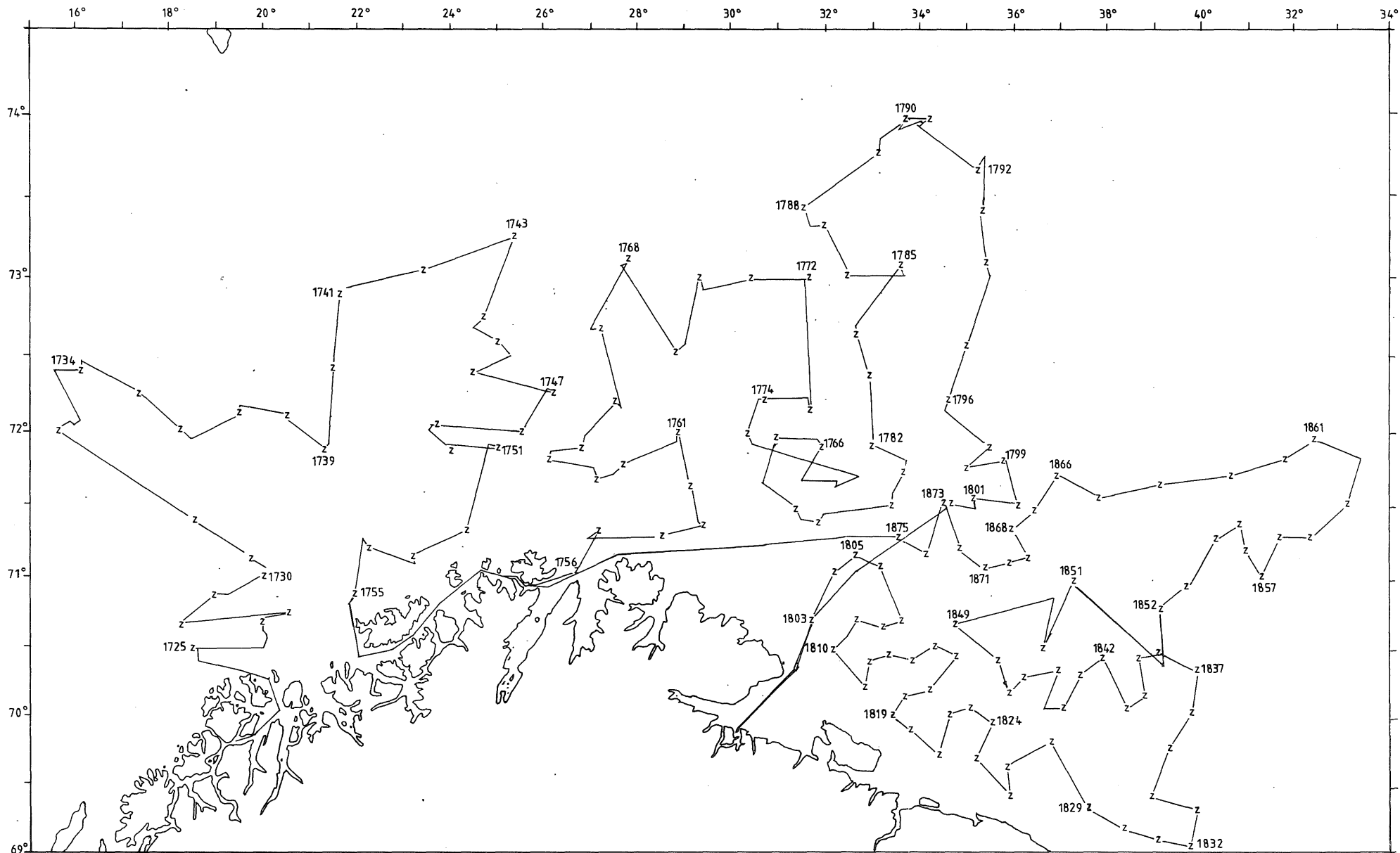
ST. NO. 1598 - 1724

"ELDJARN"



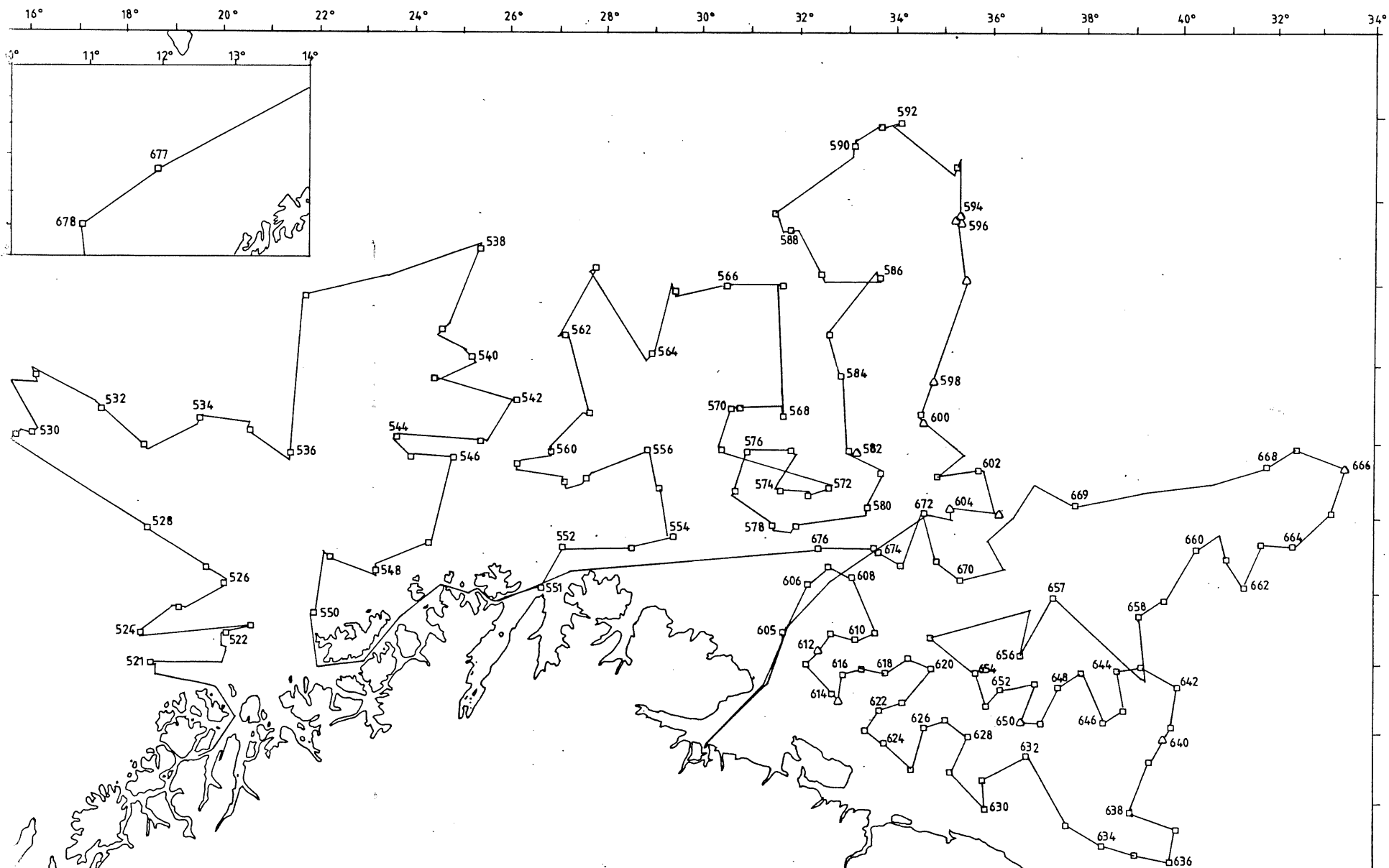
7 SEP - 4 OCT. 1984 TRAWL ST. NO. 407-514

"ELDJARN"



4 OCT - 14 NOV. 1984 ST. NO. 1725 - 1875

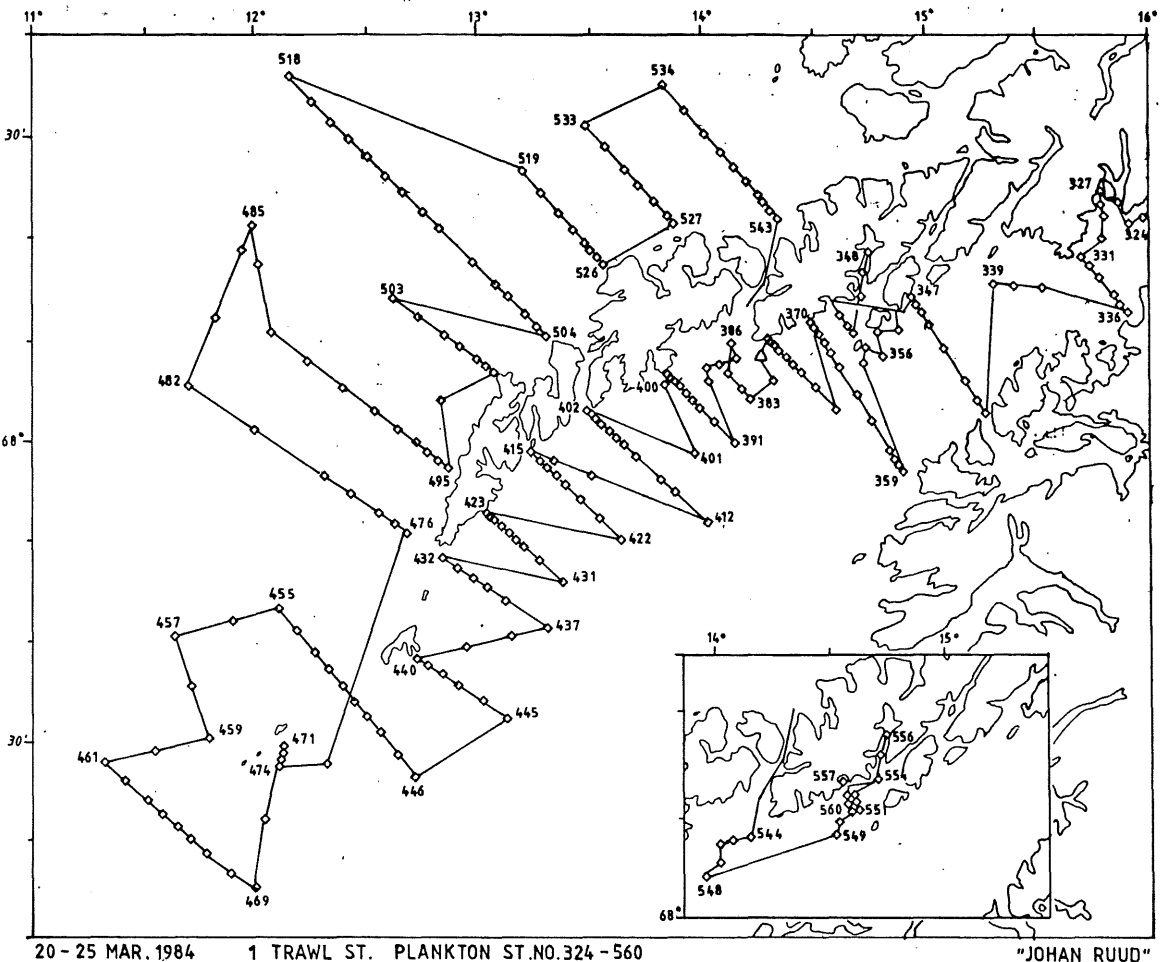
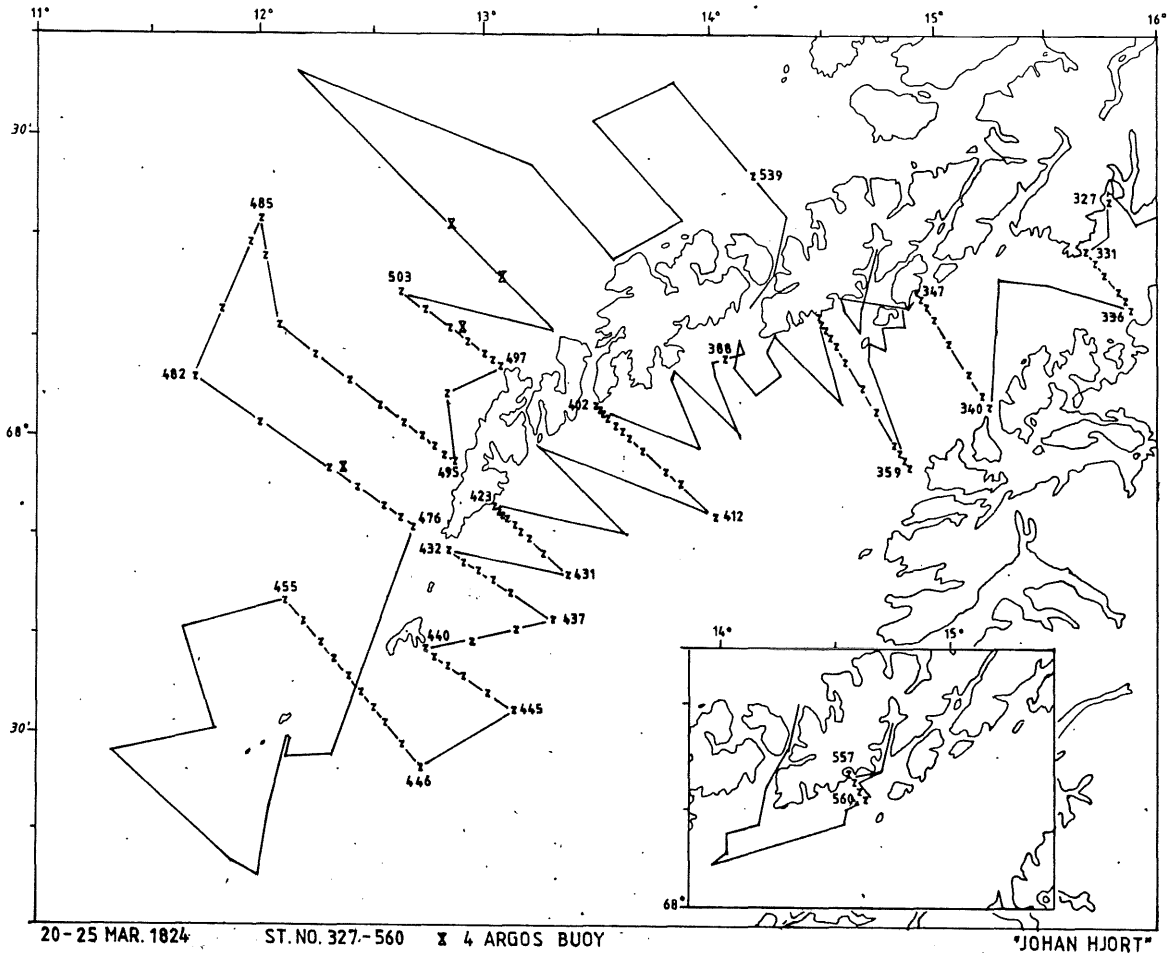
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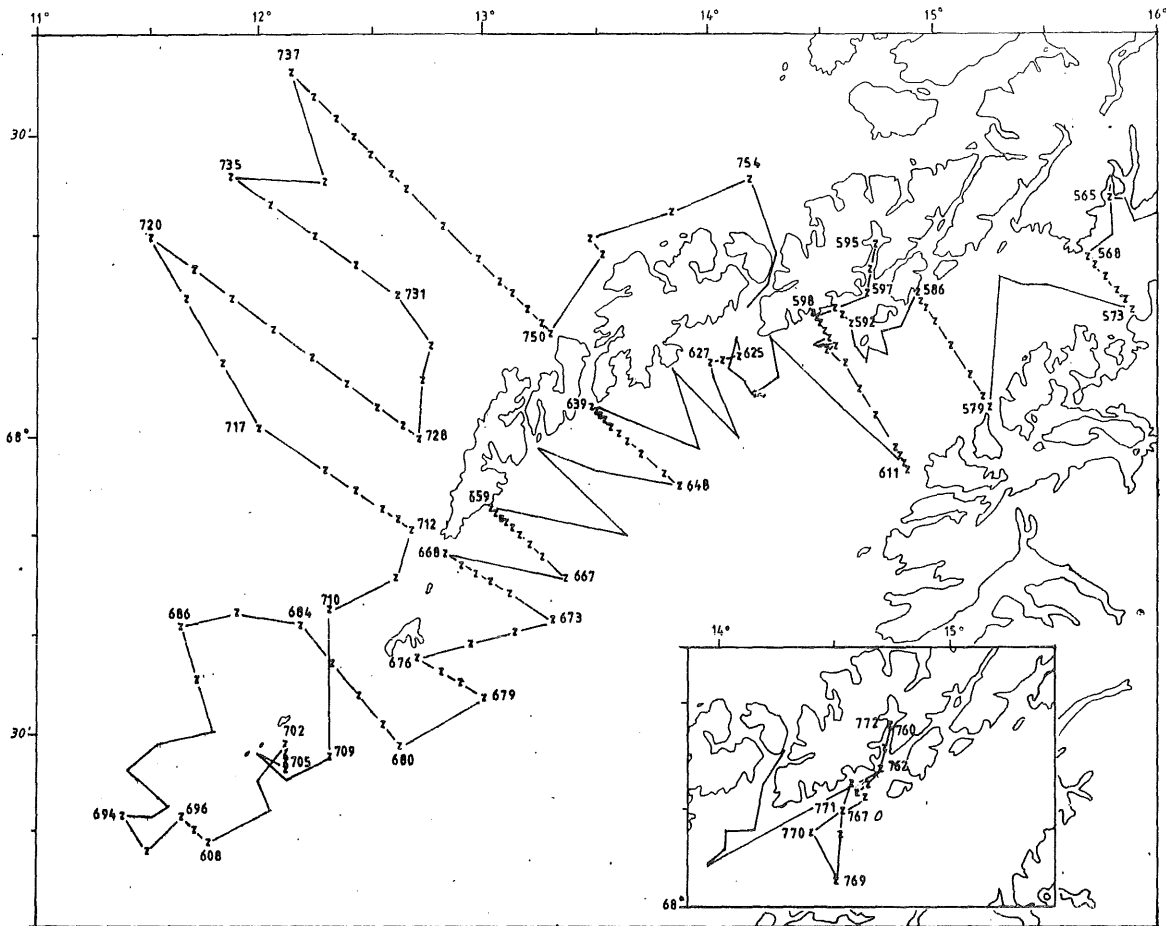


63

T. - 14 NOV. 1984 TRAWL ST. NO. 521-678

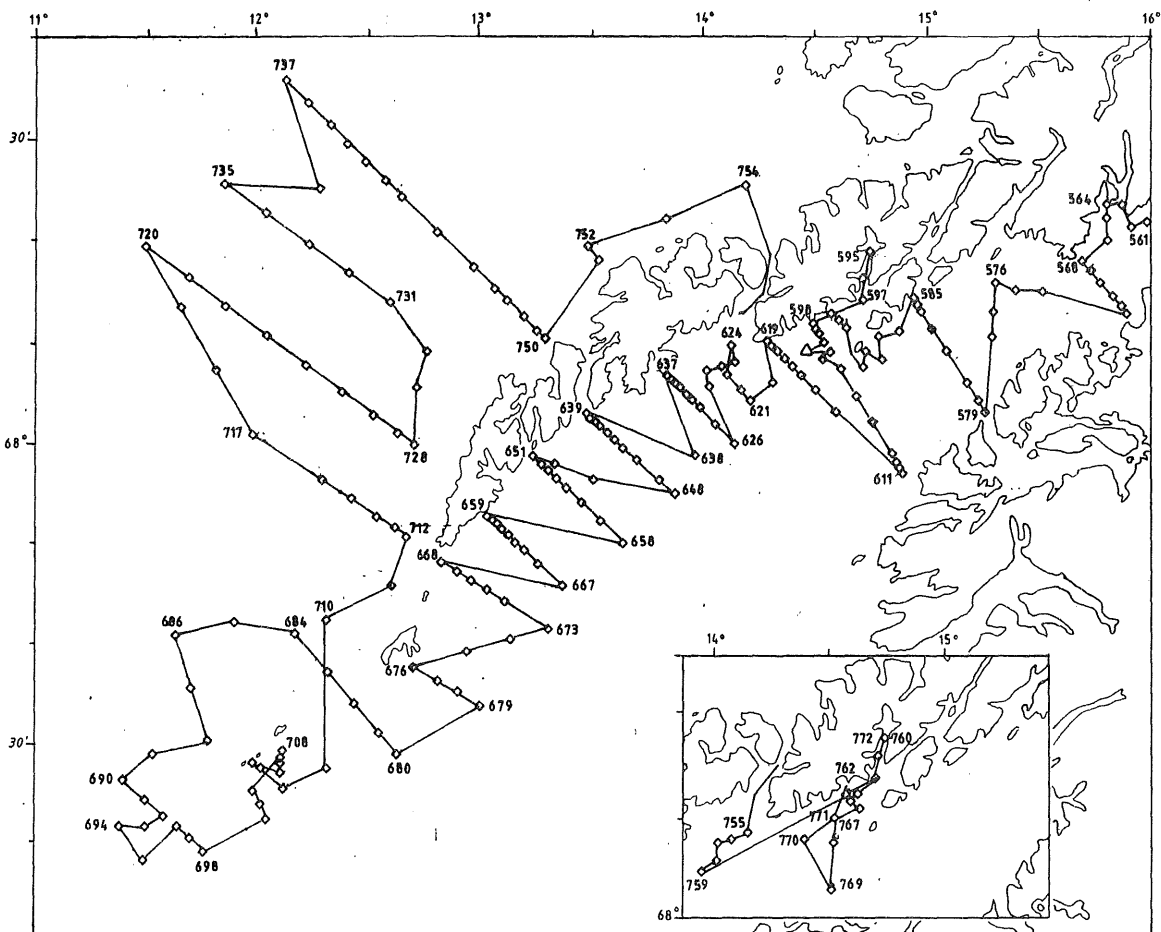
"ELDJARN"





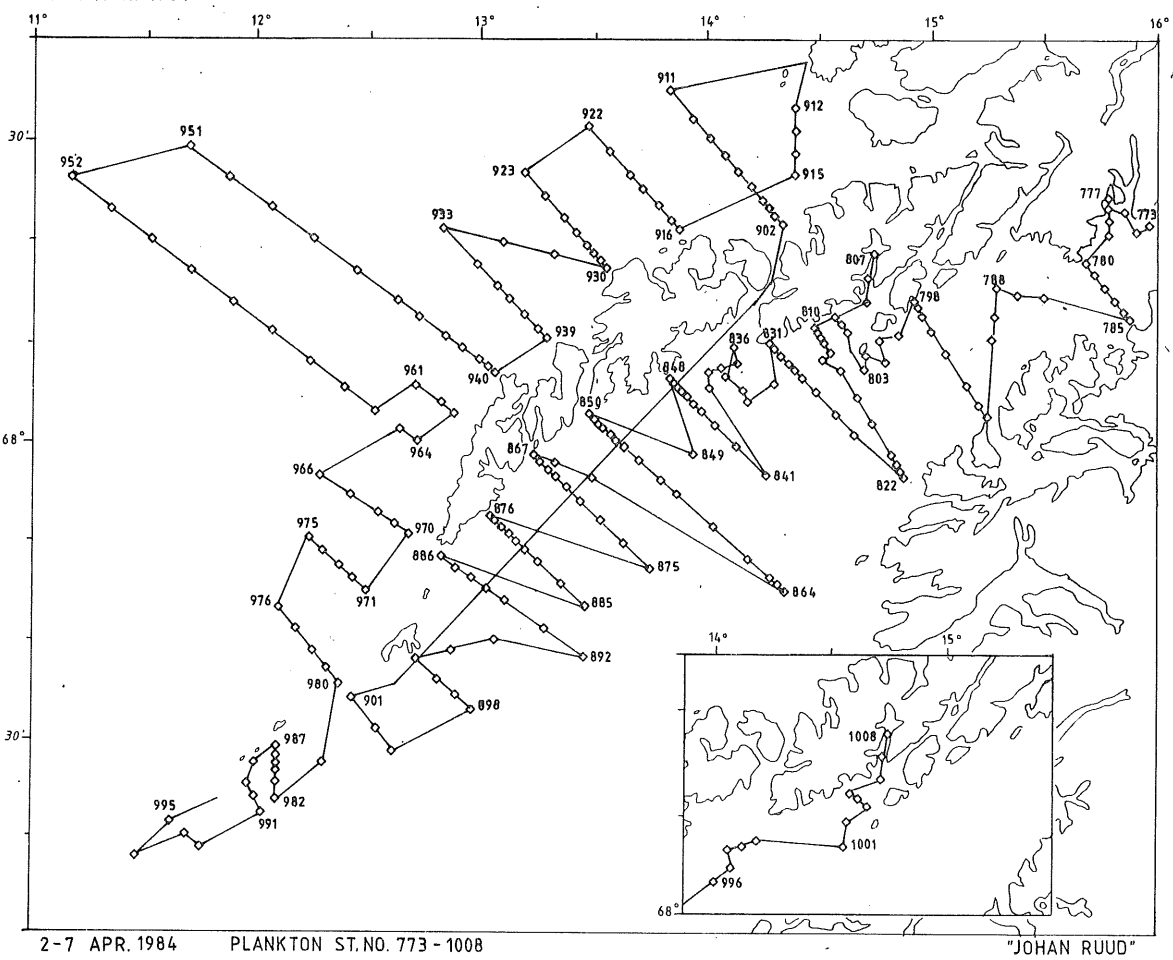
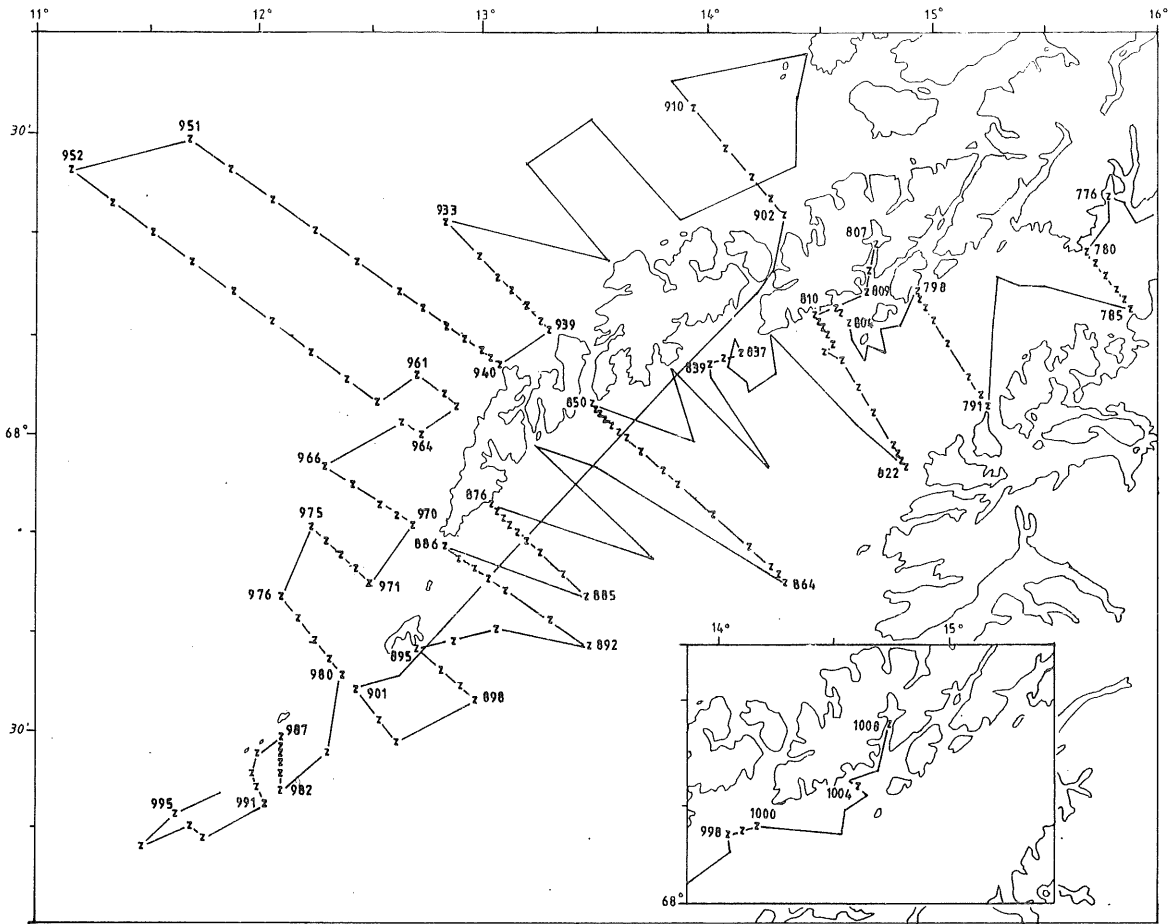
26 MAR.-1APR. 1984 ST.NO. 565-772

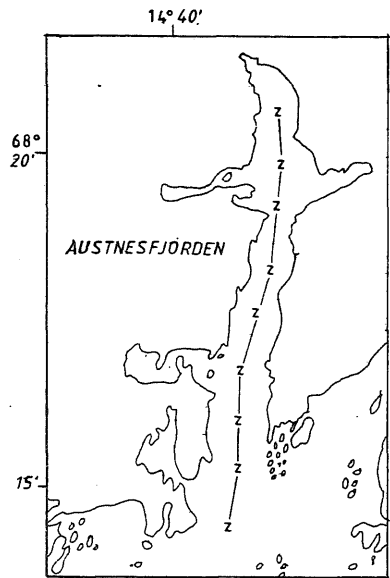
"JOHAN HJORT"



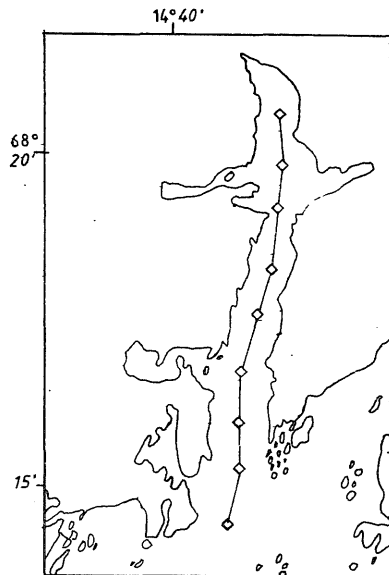
26 MAR.-1APR. 1984 1 TRAWL ST. PLANKTON ST.NO.561-772

"JOHAN RUUD"

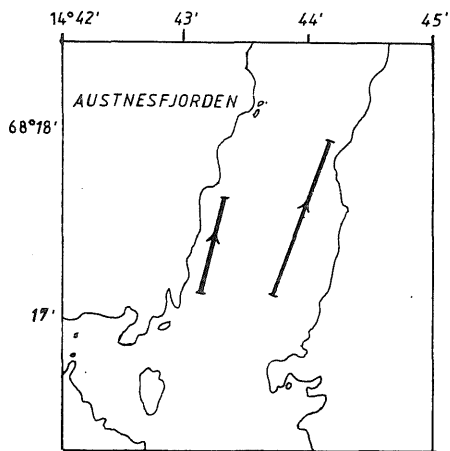




z CTD ST.

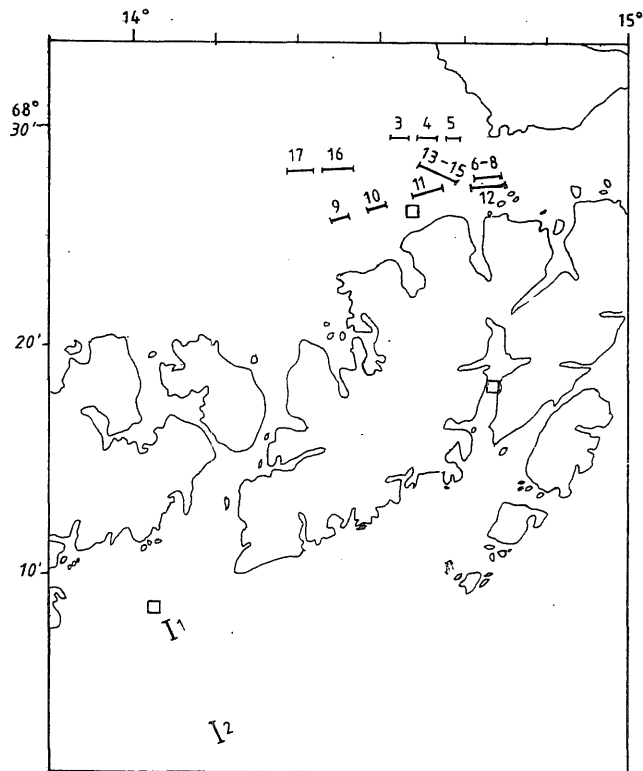


◇ PHYTO - ZOOPLANKTON ST.
 ICHTHYPLANKTON ST.

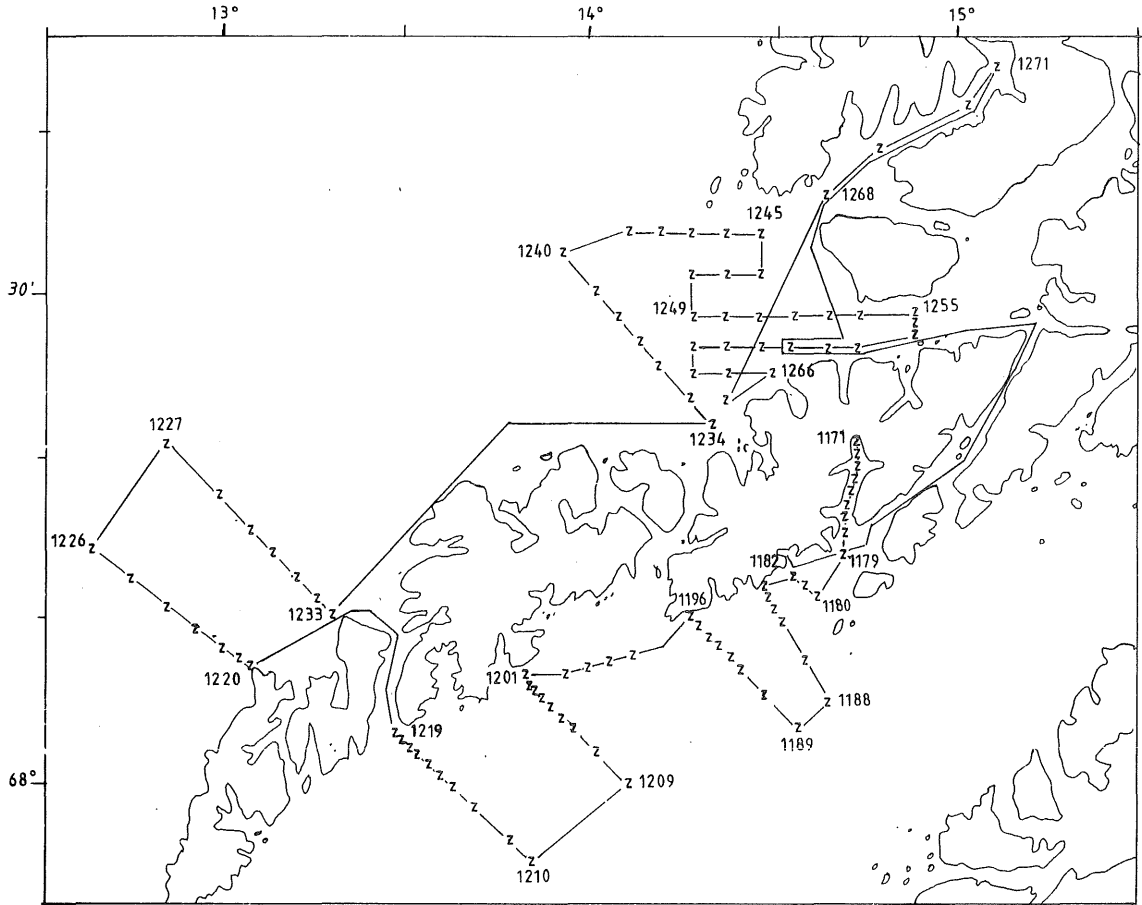


CURRENT DROGUE OBC.

ST. NO. 1068 - 1170
 "JOHAN RUUD"

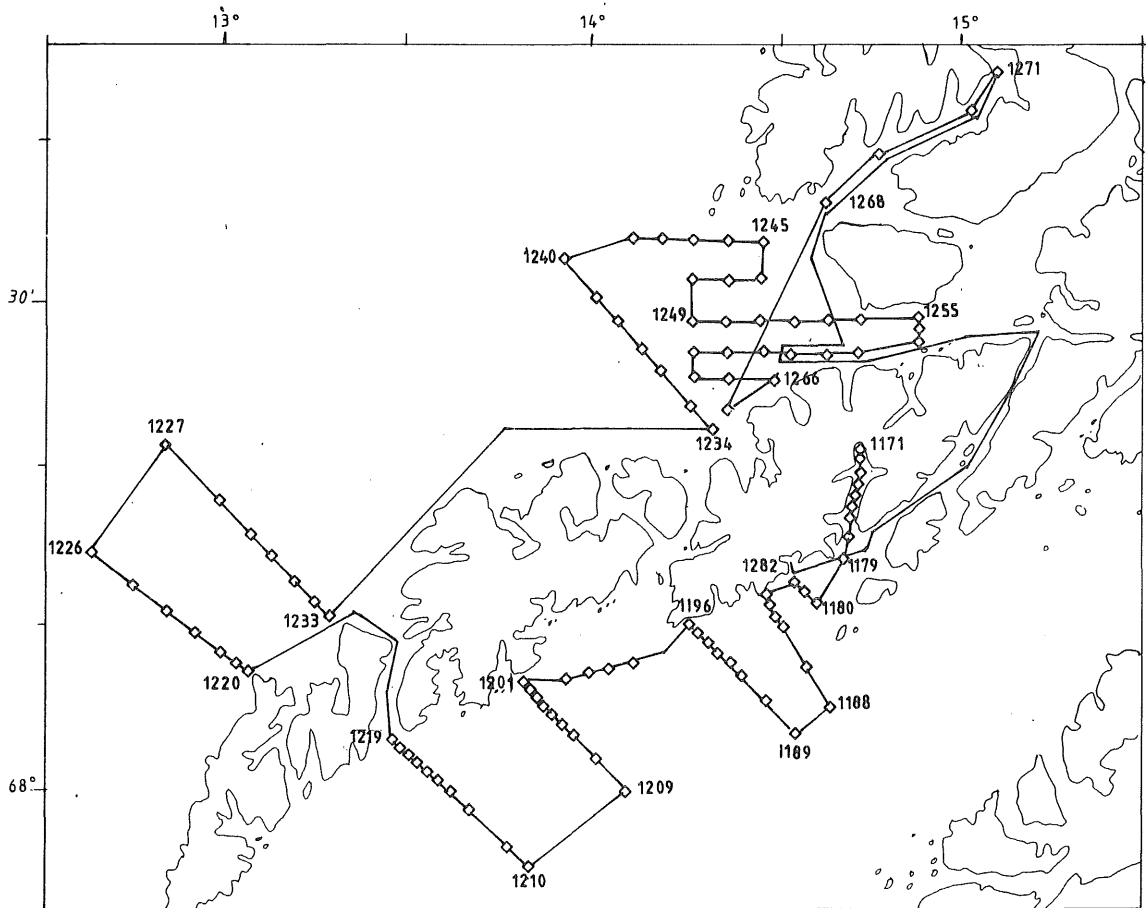


25 APR. - 5 MAY 1984 "JOHAN RUUD"
 — MOCNESS TRAWL ST. □ DIURNAL ST.



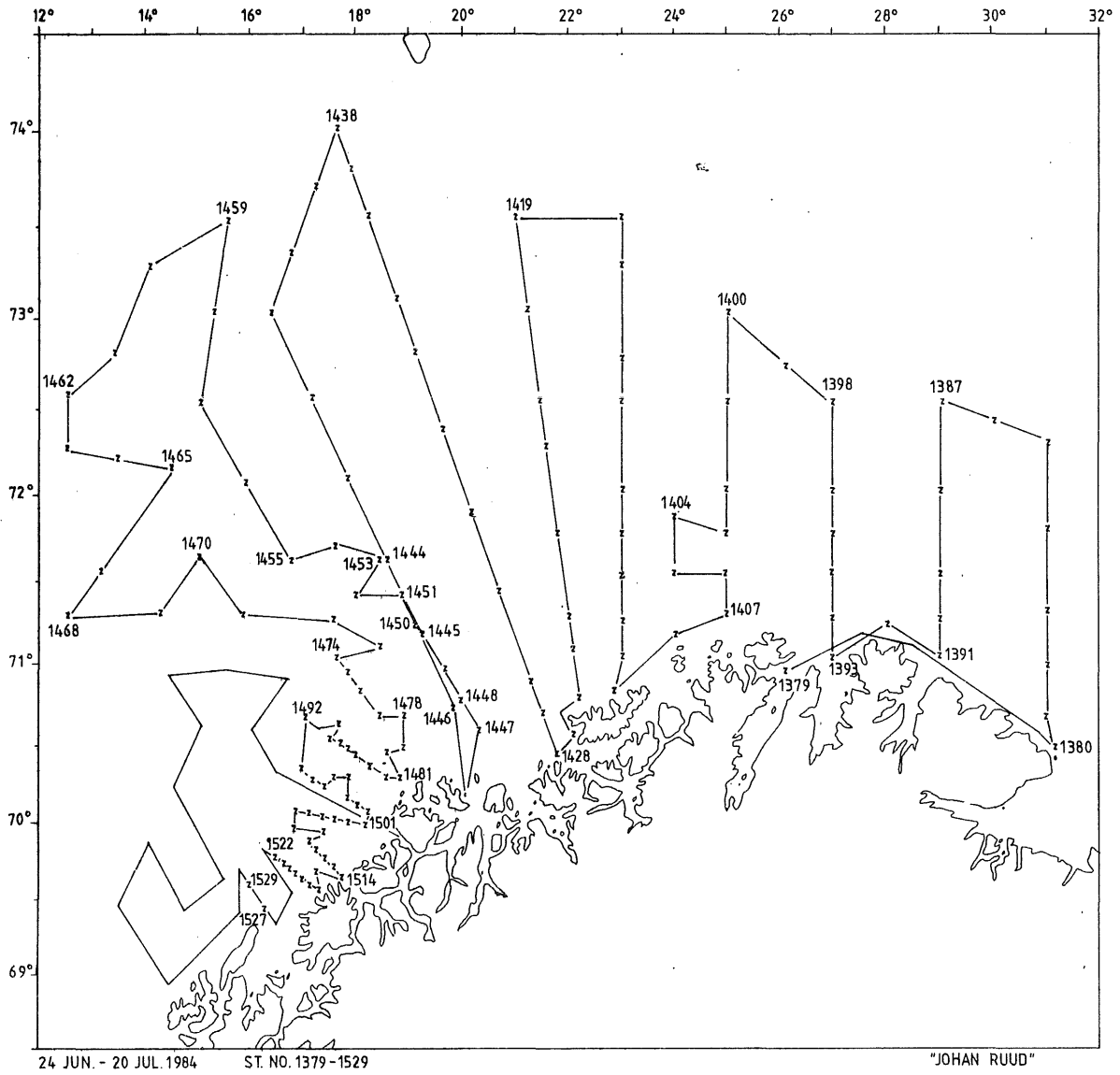
6 - 10 MAY 1984 ST. NO. 1171-1271

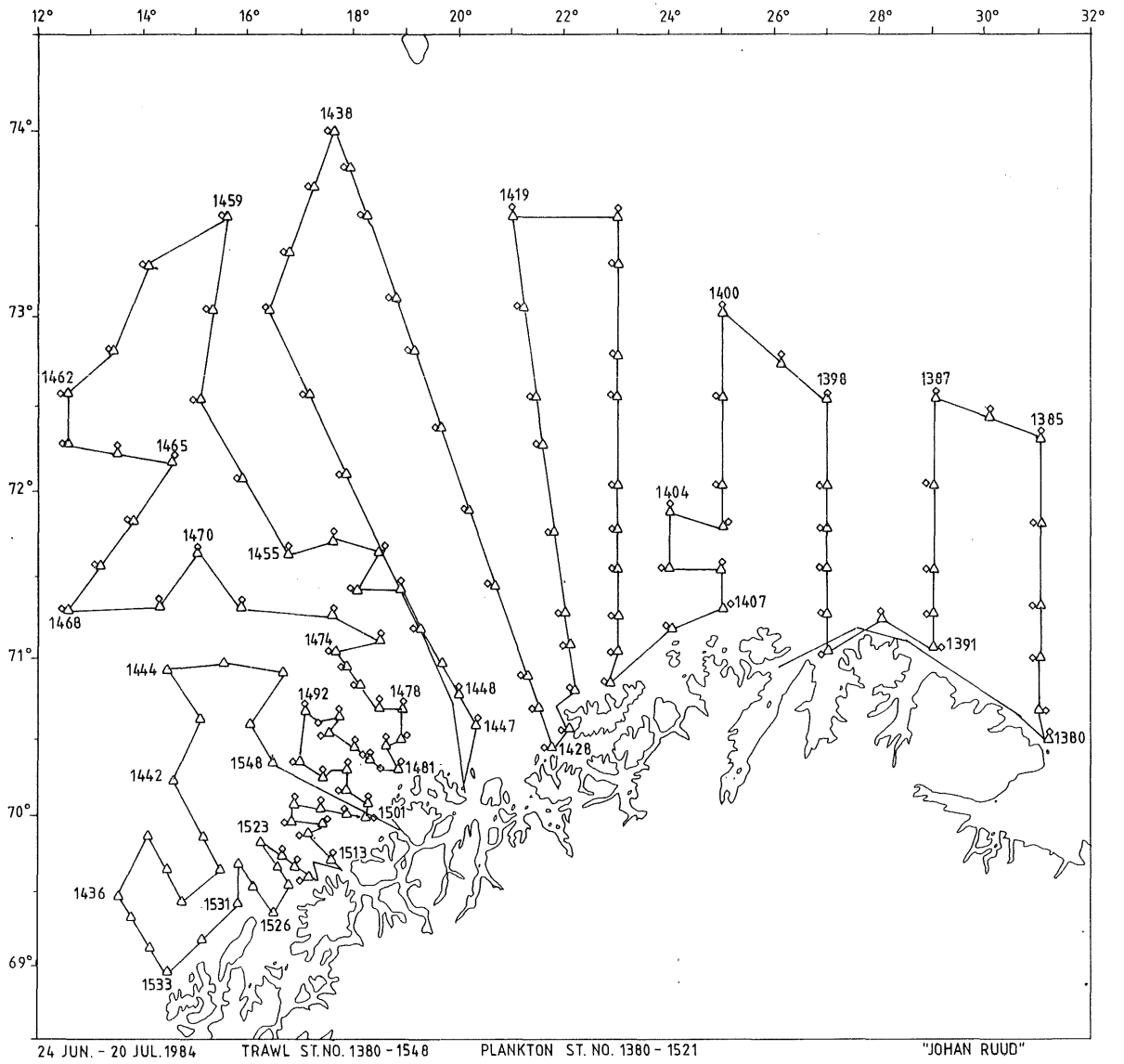
"JOHAN RUUD"

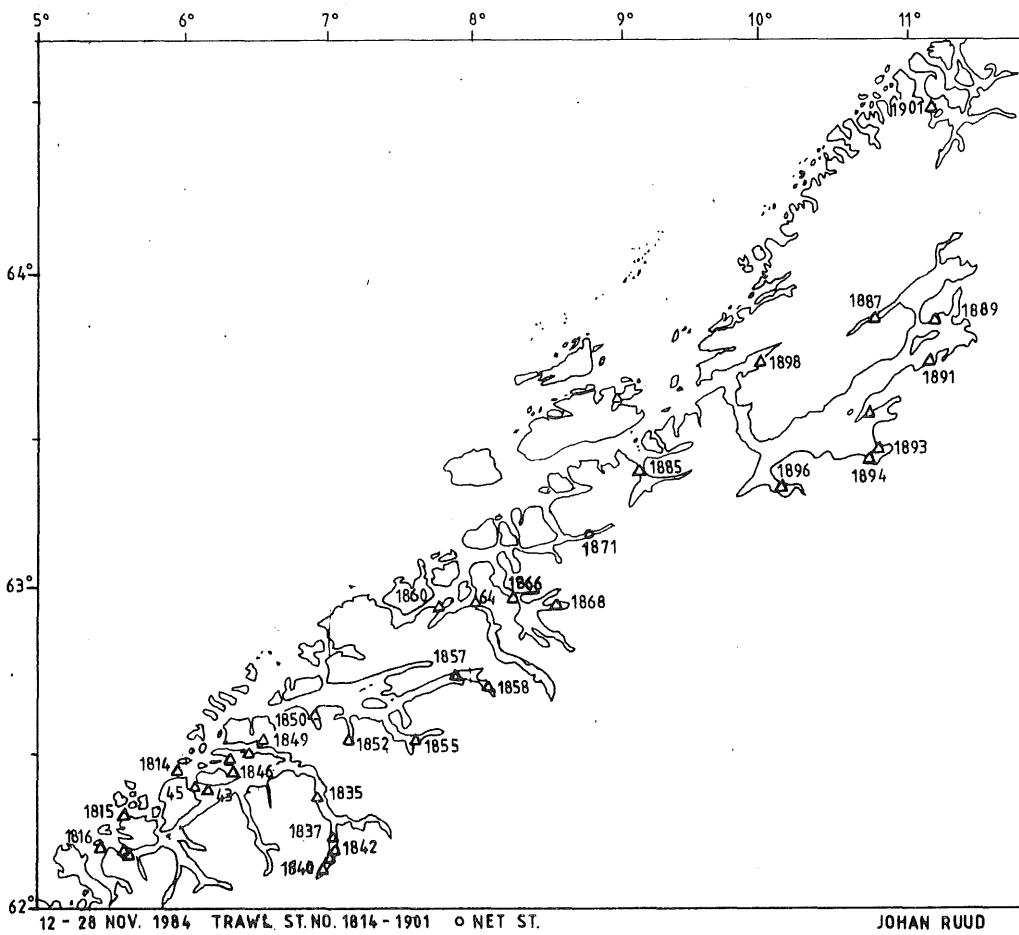
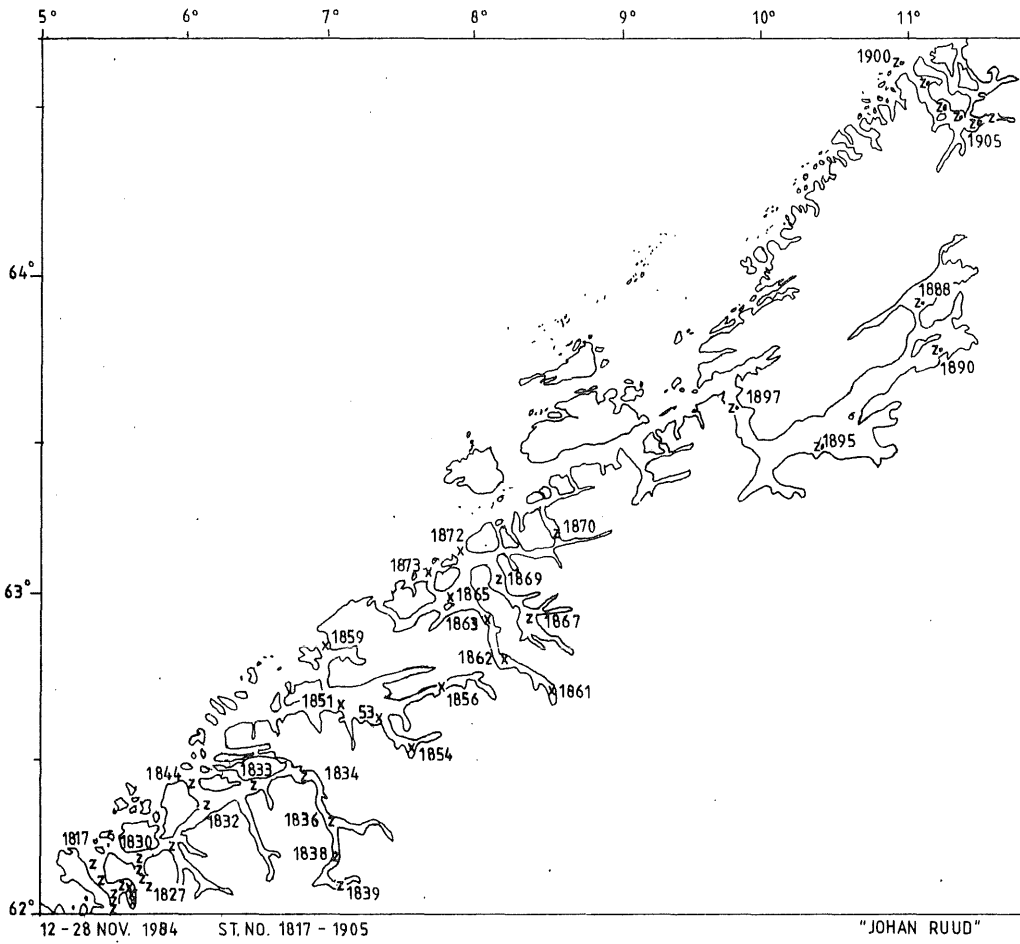


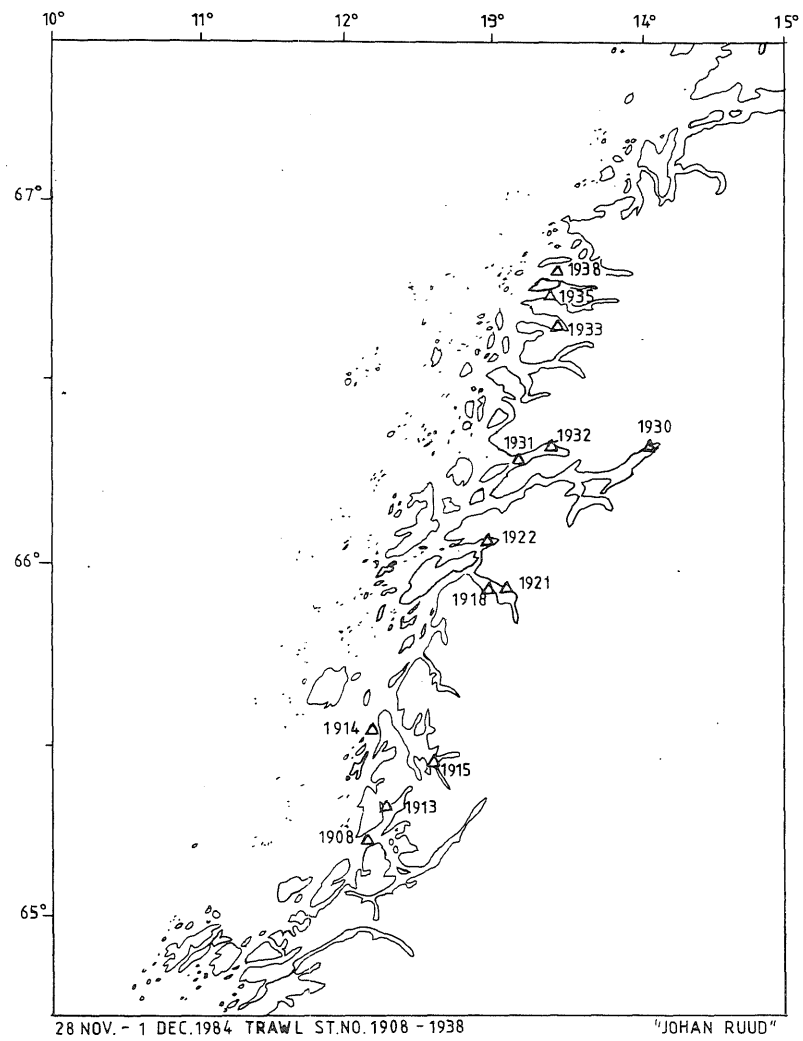
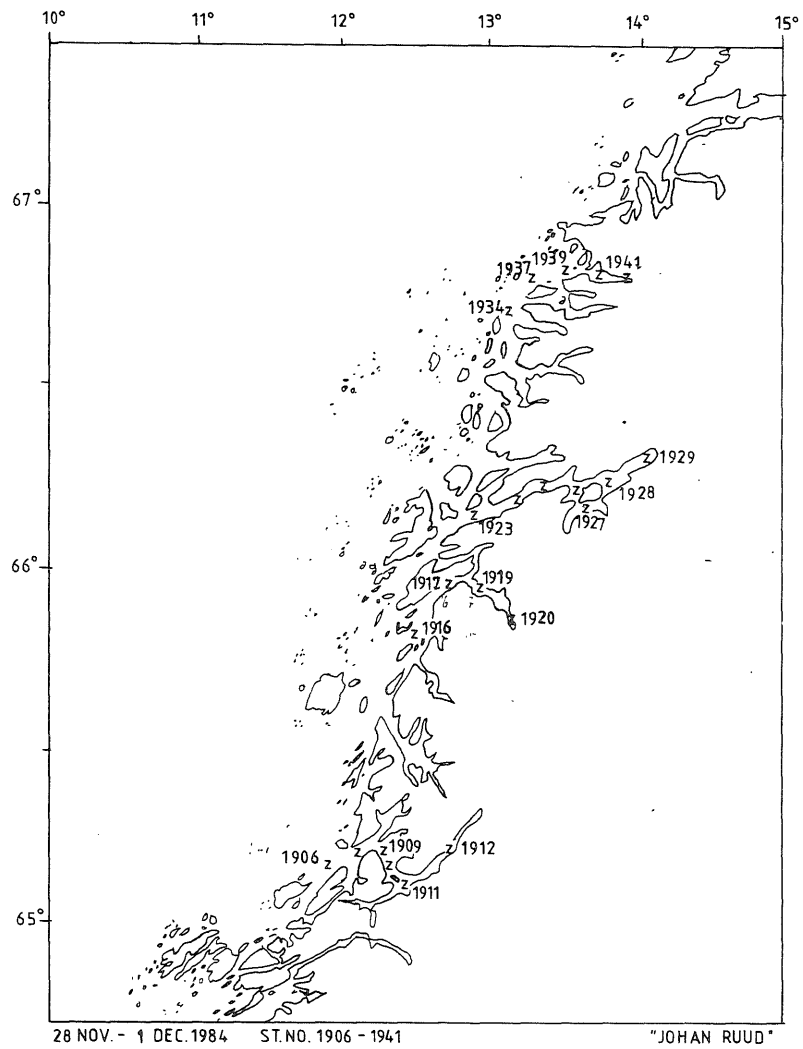
6 - 10 MAY 1984 PLANKTON ST. NO. 1171-1271

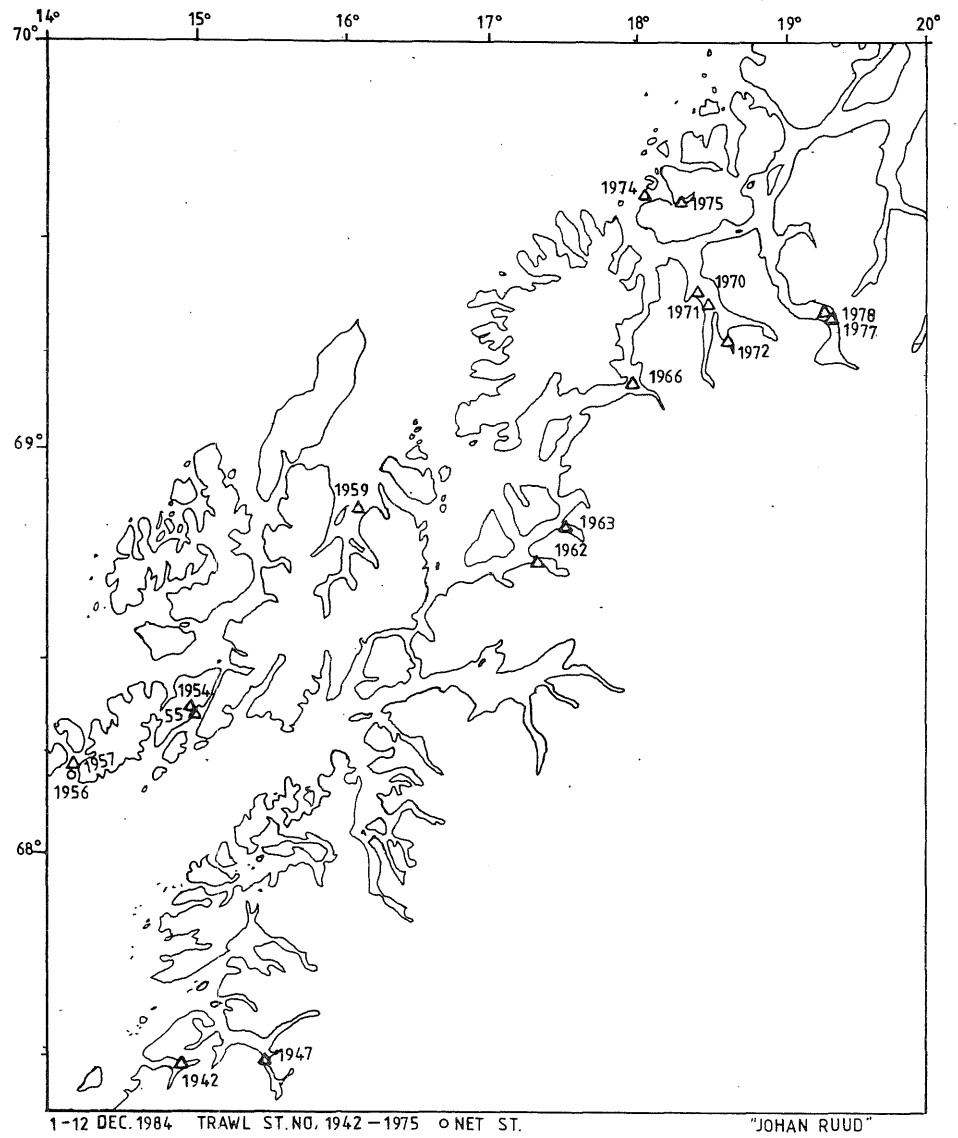
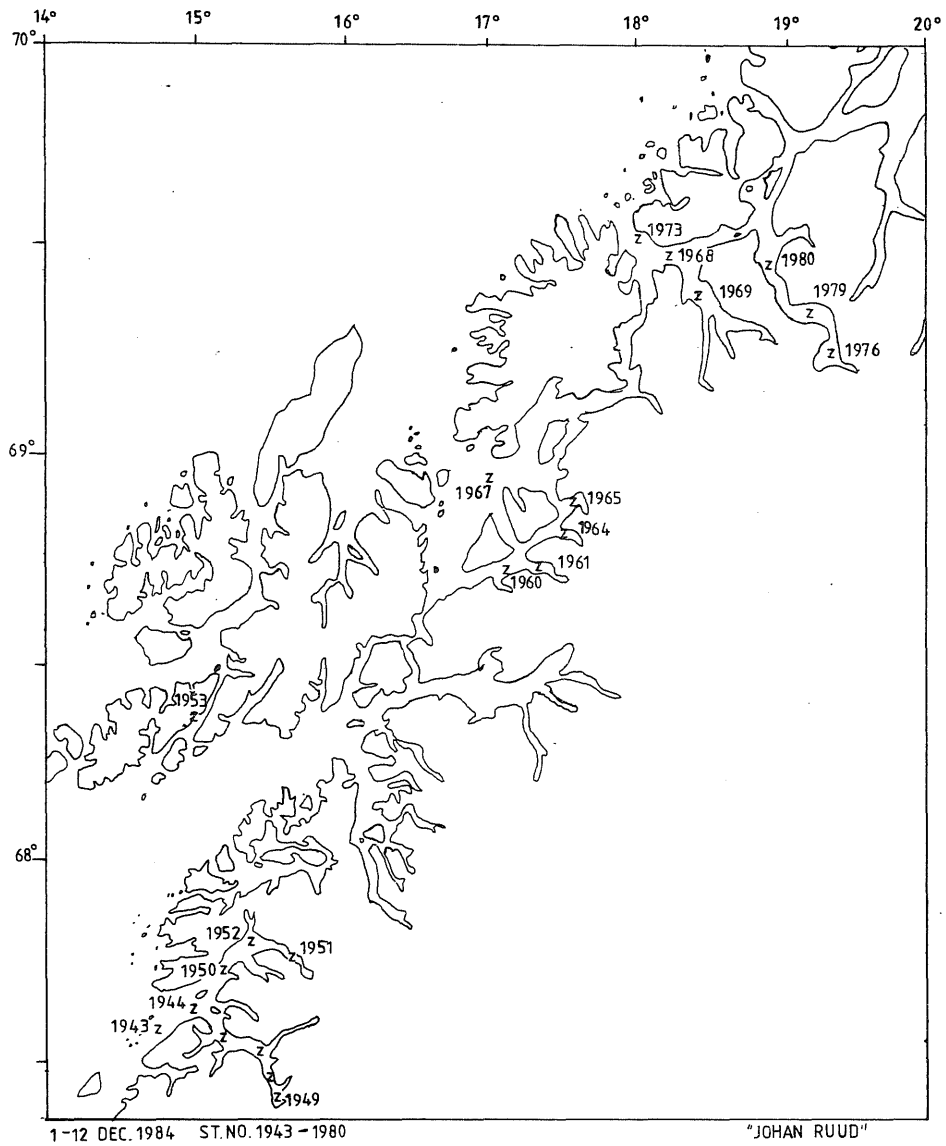
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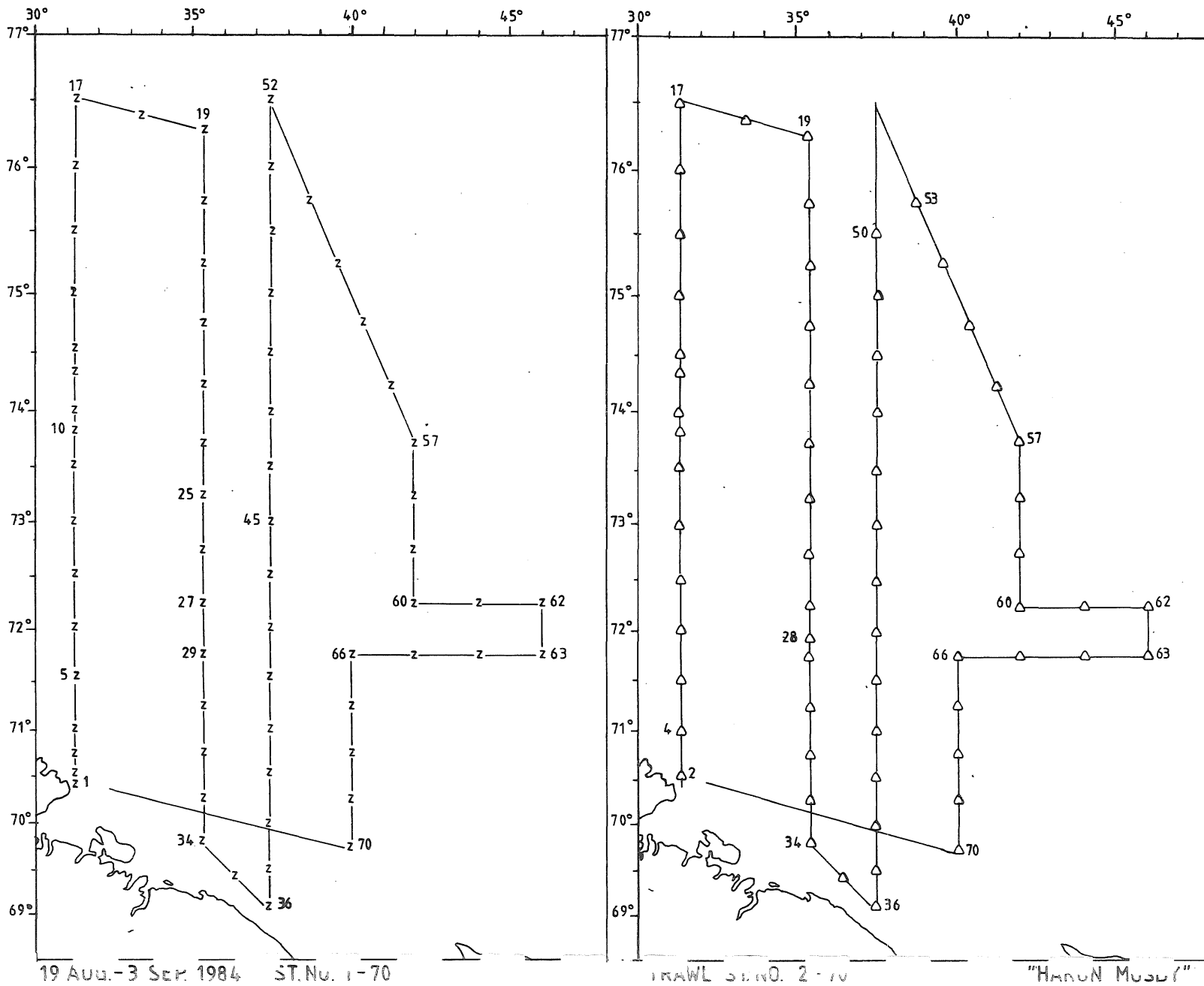


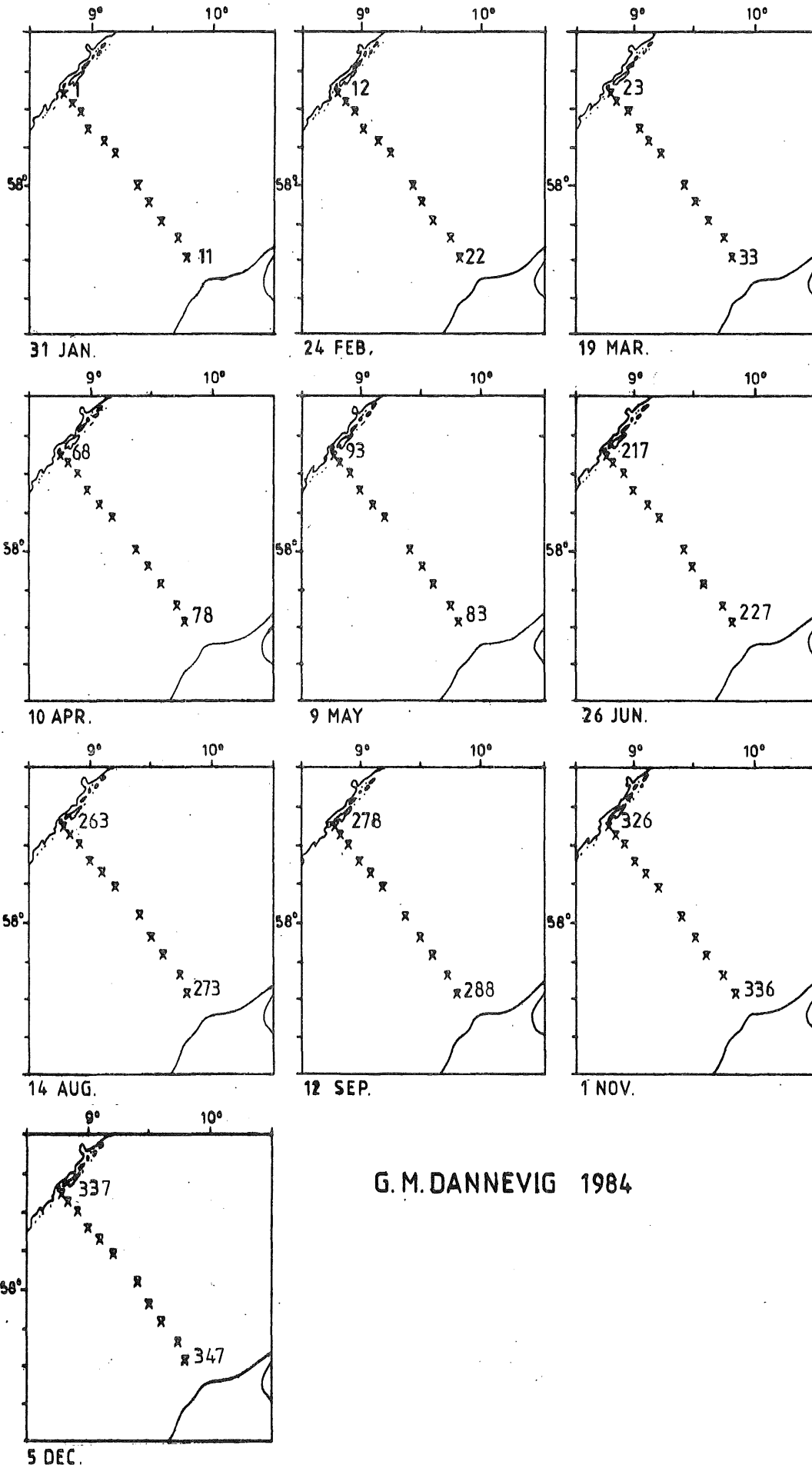




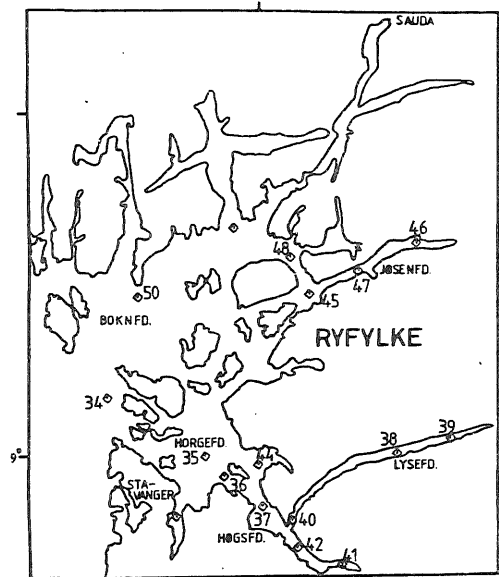




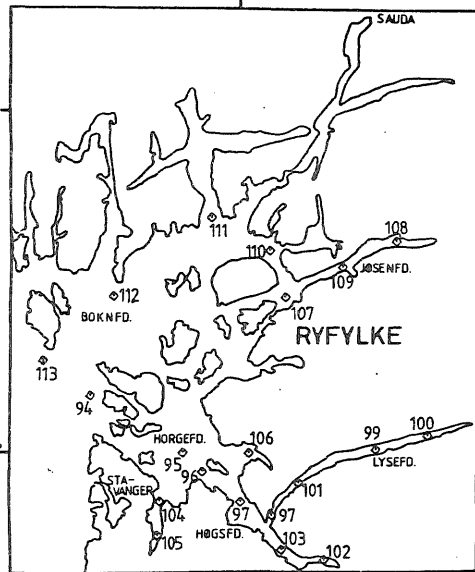




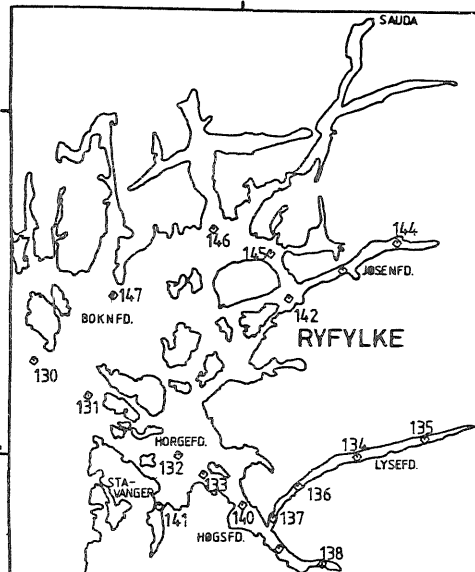
G. M. DANNEVIG 1984



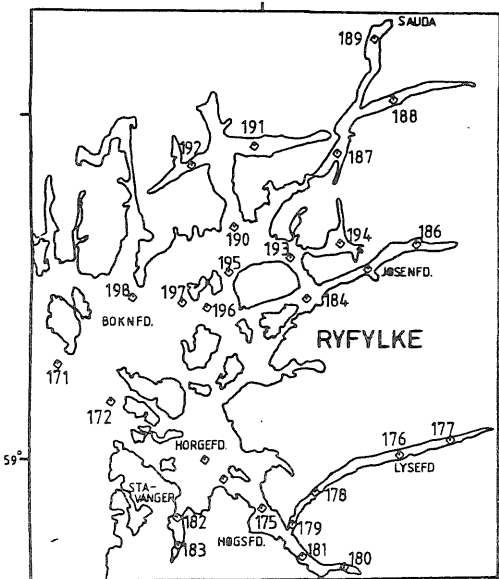
27-31. MAR 1984



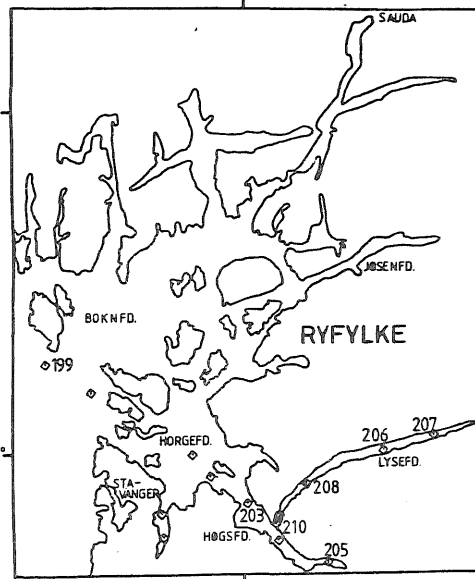
29. MAI - 1. JUN 1984



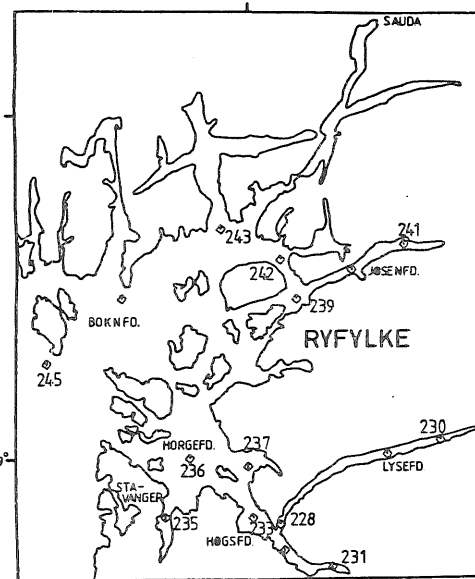
6-9. JUN 1984



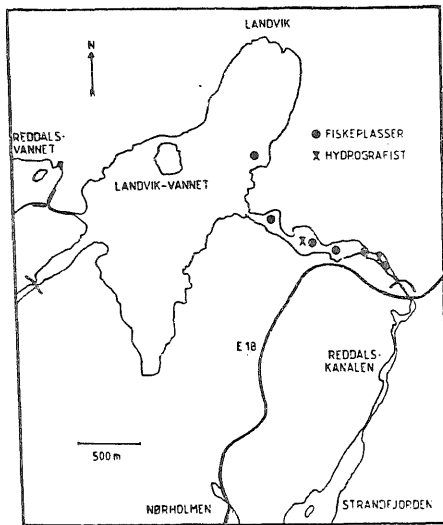
15-19. JUN 1984



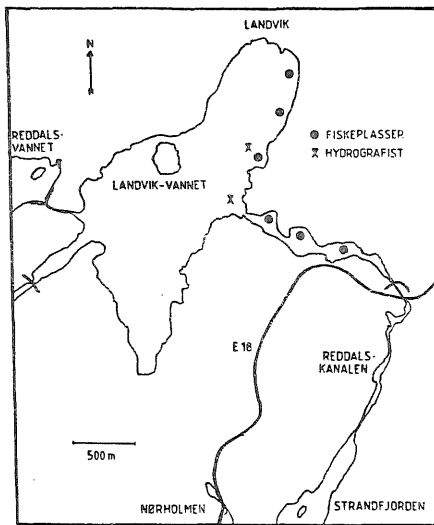
20-21. JUN 1984



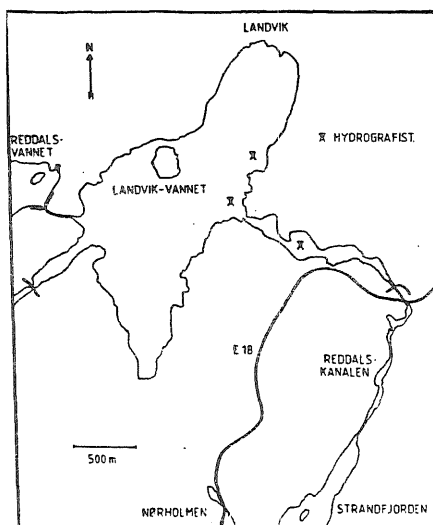
4-6. JUL 1984



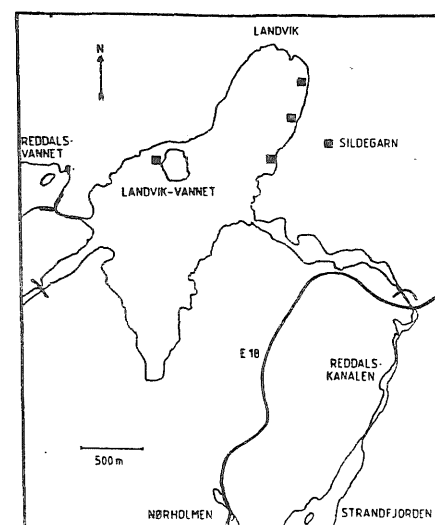
HYDROGRAFI OG FISKING 5 MARS



HYDROGRAFI OG FISKING 9 MARS

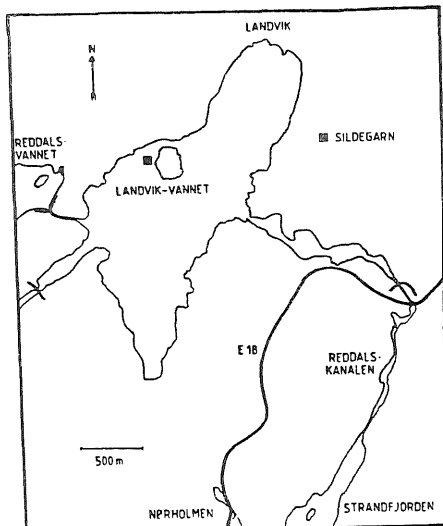


HYDROGRAFI 14 MAI



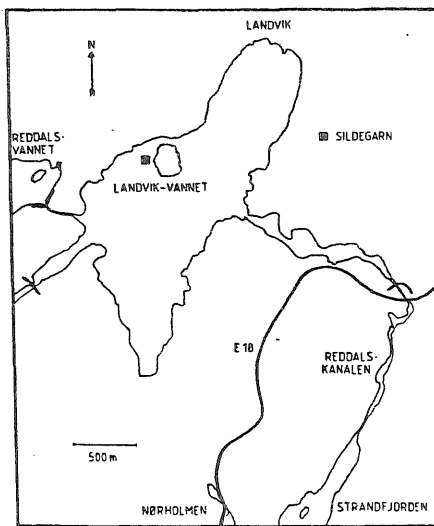
GARNSETTING 14 -15 MAI

SILDEUNDERSØKELSER 1984



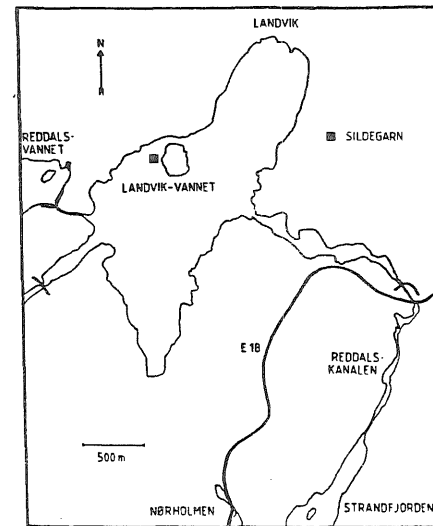
GARNSETTING 15 -16 MAI

SILDEUNDERSØKELSER 1984



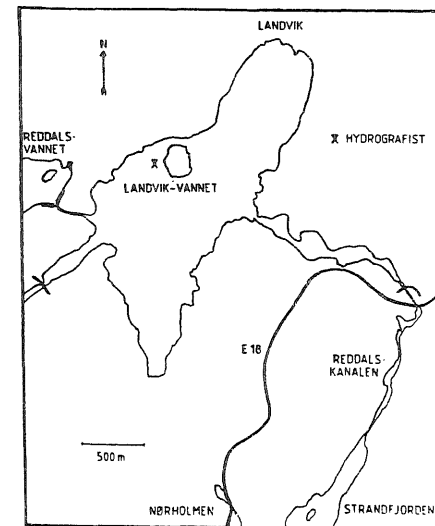
GARNSETTING 23-24 MAI

SILDEUNDERSØKELSER 1984

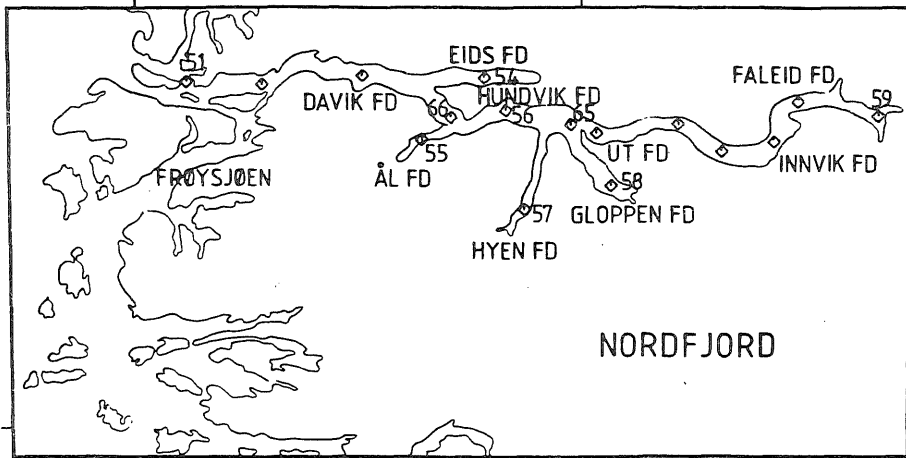


GARNSETTING 24 -25 MAI

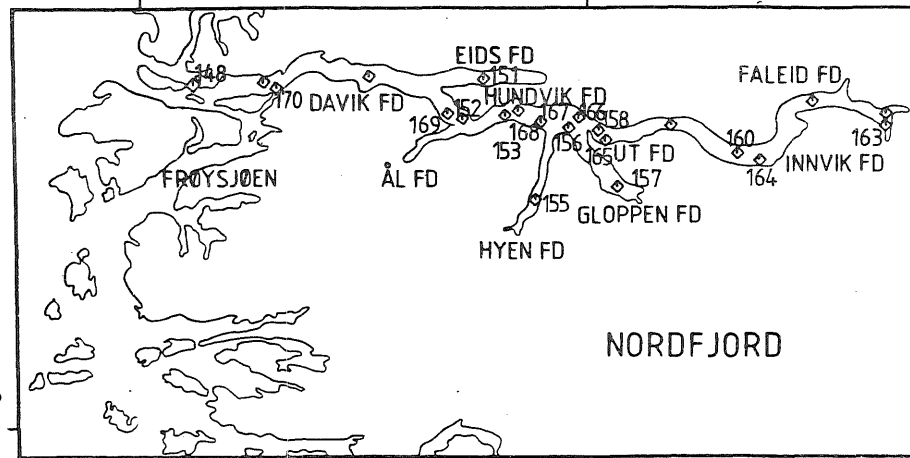
SILDEUNDERSØKELSER 1984



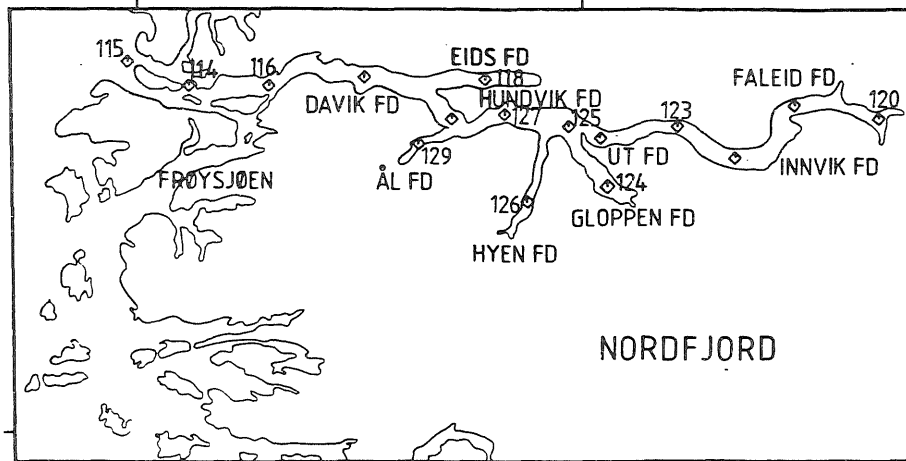
HYDROGRAFI 25 MAI



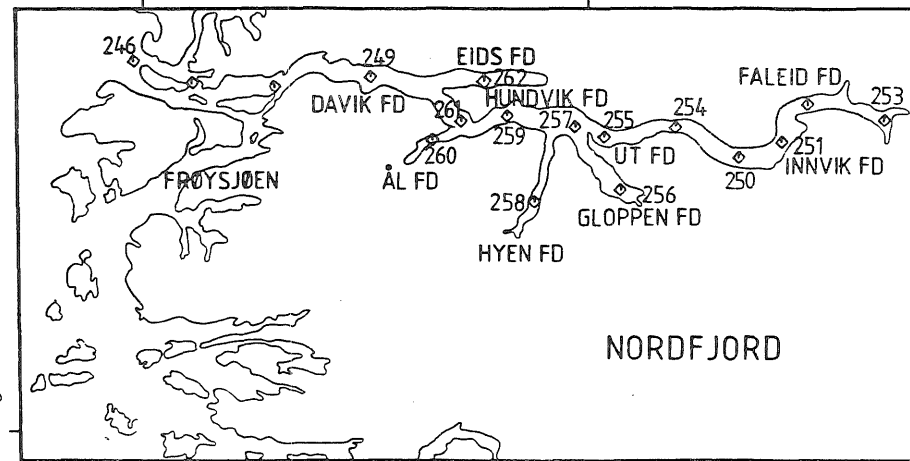
31. MAR-2. APR 1984



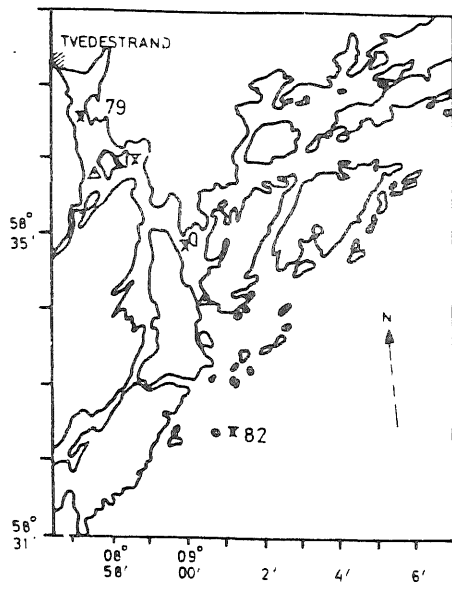
11-13. JUN 1984



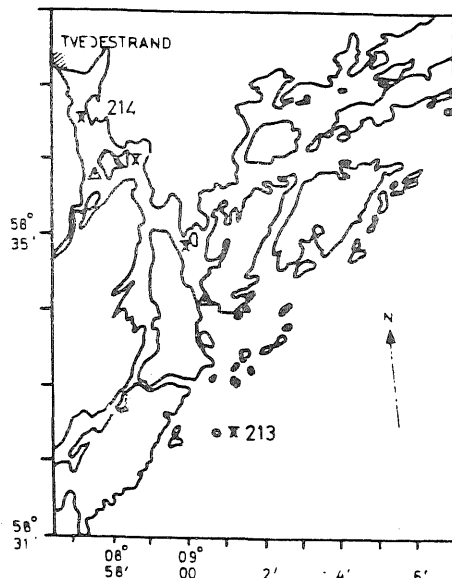
3-4. JUN 1984



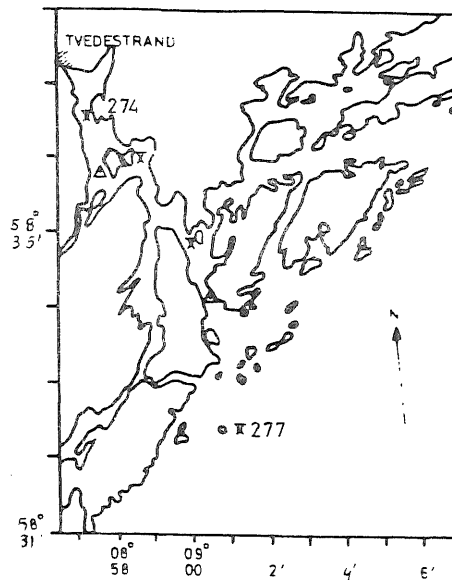
8-10. JUL 1984



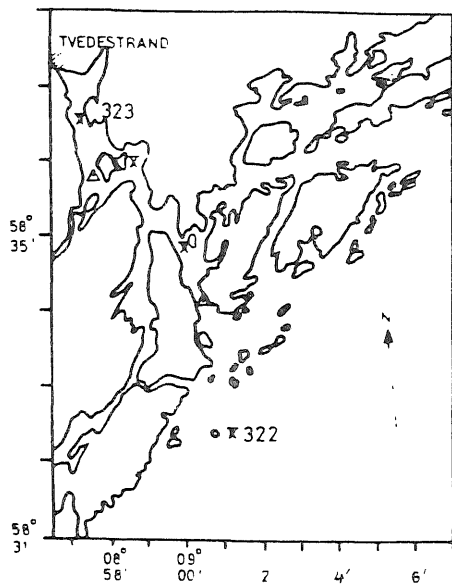
25 APR. 1984



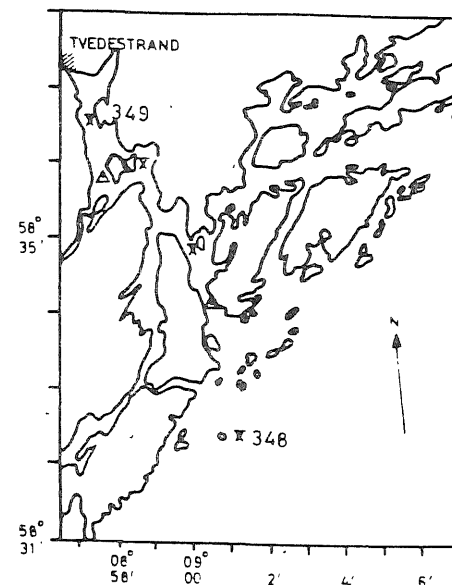
25 JUNI 1984



16 AUG 1984



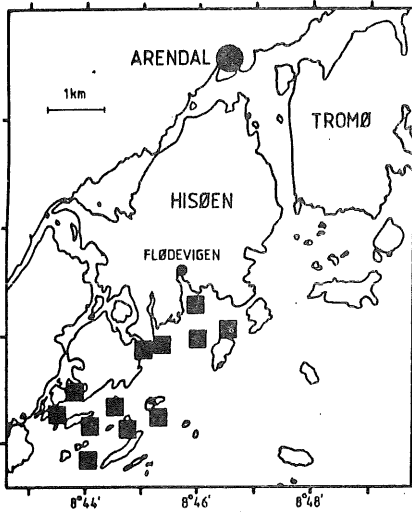
29 OKT 1984



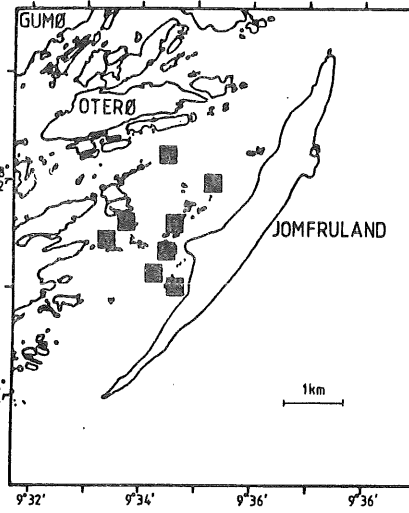
11 DES 1984

FORSÖKSFISKE 1984

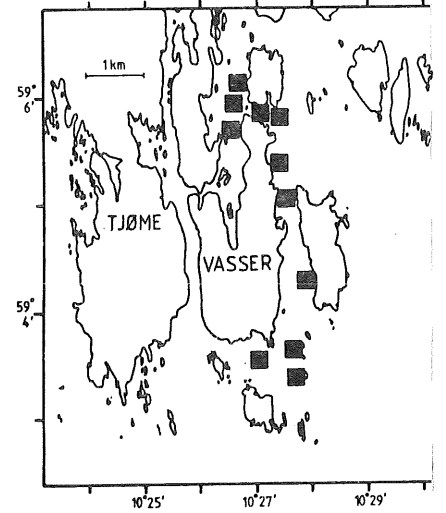
FLØDEVIGEN 16 OKT-1 NOV



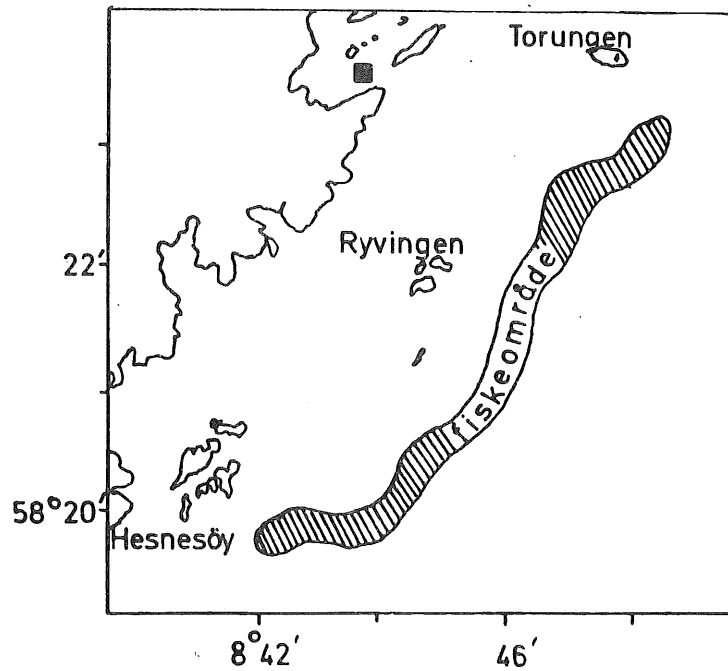
JOMFRULAND 12-14 NOV



VASSER 10 OKT-7 NOV



FISKE ETTER STAMFISK 1984



■ Garnstasjon 23-27 JAN og 6-10 FEB 1984

FISKEYNGELUNDERSÖKELSER 18.SEP-5.OKT 1984

FISKEYNGELUNDERSÖKELSER 18.SEP-5.OKT.1984

