

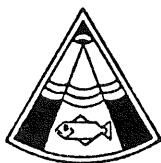


report on  
oceanographic cruises  
and data stations  
1982

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‰

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Bergen – Norge



ICES Annual Report on Oceanographic Cruises and Data Stations.

Country: NORWAY

Year: 1982

Ship: G.O. SARS

Cruise and ship number.	Period of cruises	Number of Stations															Continual observations					Page of track chart				
		Classical oceanogr. stations	Vertical profiles (STD/CTD)	Phosphates	Argos droogh	Oxygen	Nutrients	Phosphates - Nitrates - Nitrites - Silicates	Petroleum residues	Van Veen grab	Primary org. prod.	Petroplank. pigment con.	Bongo net	Pelagic Trawl	Bottom Trawl	Nitrates and Nitrites	Silicates	Zooplankton	Phytoplankton	Surface temperature	Transparency		Organic matter (extract.)	Part. matter (filtration)	NO <sub>2</sub> + NO <sub>3</sub> (auto-analyzer)	Echo sounding
1/15	08/1-23/1		83										25						x					x	x	7
2/15	26/1-05/3		124										12	78					x					x	x	8
3/15	05/3-24/3	5	81										12	24					x					x	x	9-10
3/15	27/3-6/4		76										17	12					x					x	x	11-12
4/15	15/4-25/4		291		2							14					272	272	x					x	x	13-14
5/15	26/4-13/5		93										37	4			30	30	x					x	x	15-16
6/15	15/5-24/5		275				246								19		246	246	x					x	x	17-18
7/15	25/5-11/6	130	133		1	18				15			10	1			130	48	x					x	x	19
8/15	07/7-18/7		24										24	7					x					x	x	20
9/15	20/7-02/8	44	69					61	67	50	63		1	10			48	48	x					x	x	21-22
10/15	03/8-20/8	2	63										22						x					x	x	23-24
11/15	21/8-05/9		94										87	2					x					x	x	25-26
12/15	07/9-03/10		124										58						x					x	x	27
13/15	08/10-23/10		41										11						x					x	x	28
14/15	02/11-26/11	143	143	143		22							38	5	143	143			x					x	x	29



ICES Annual Report on Oceanographic Cruises and Data Stations.

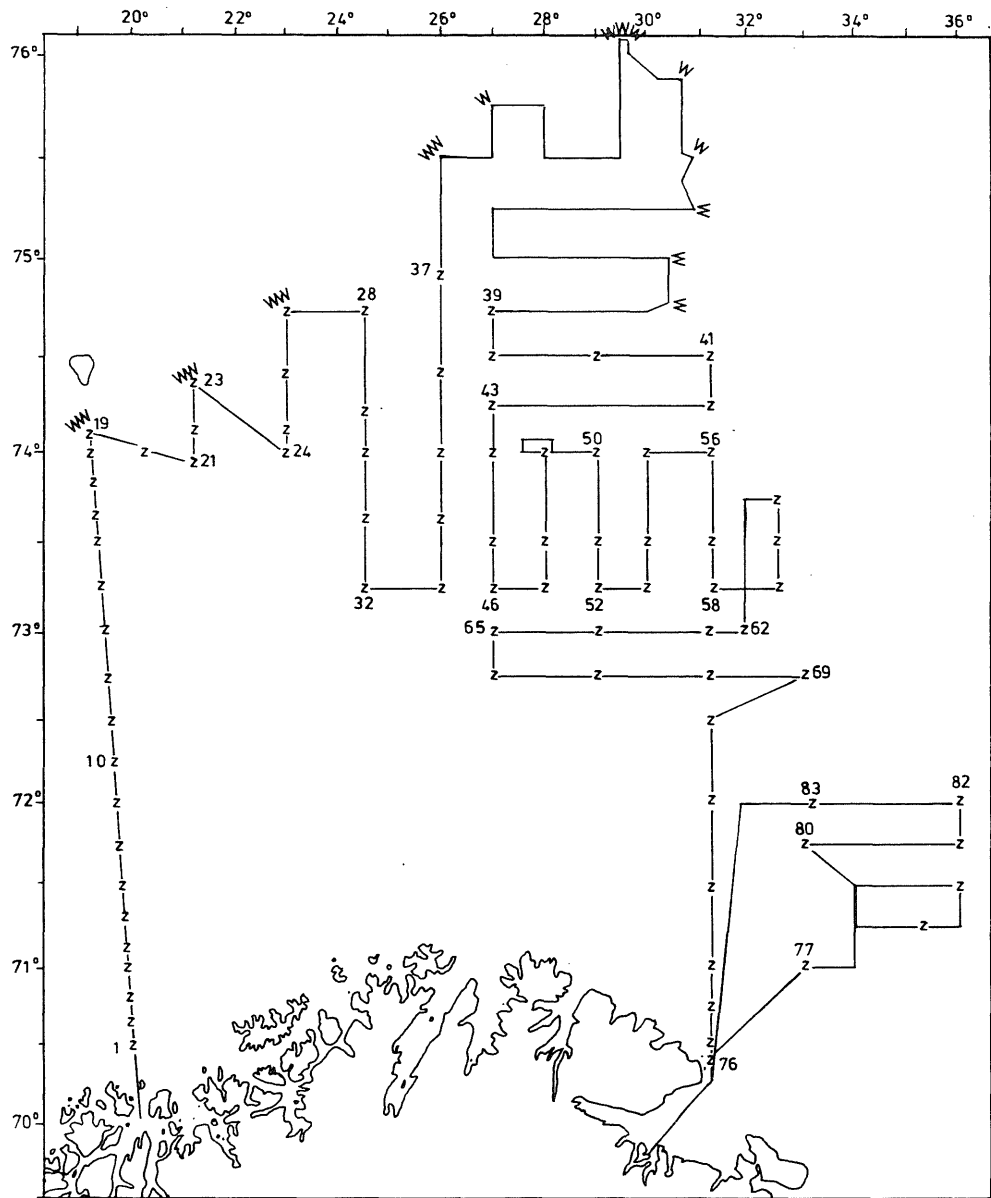
Country: NORWAY

Year: 1982

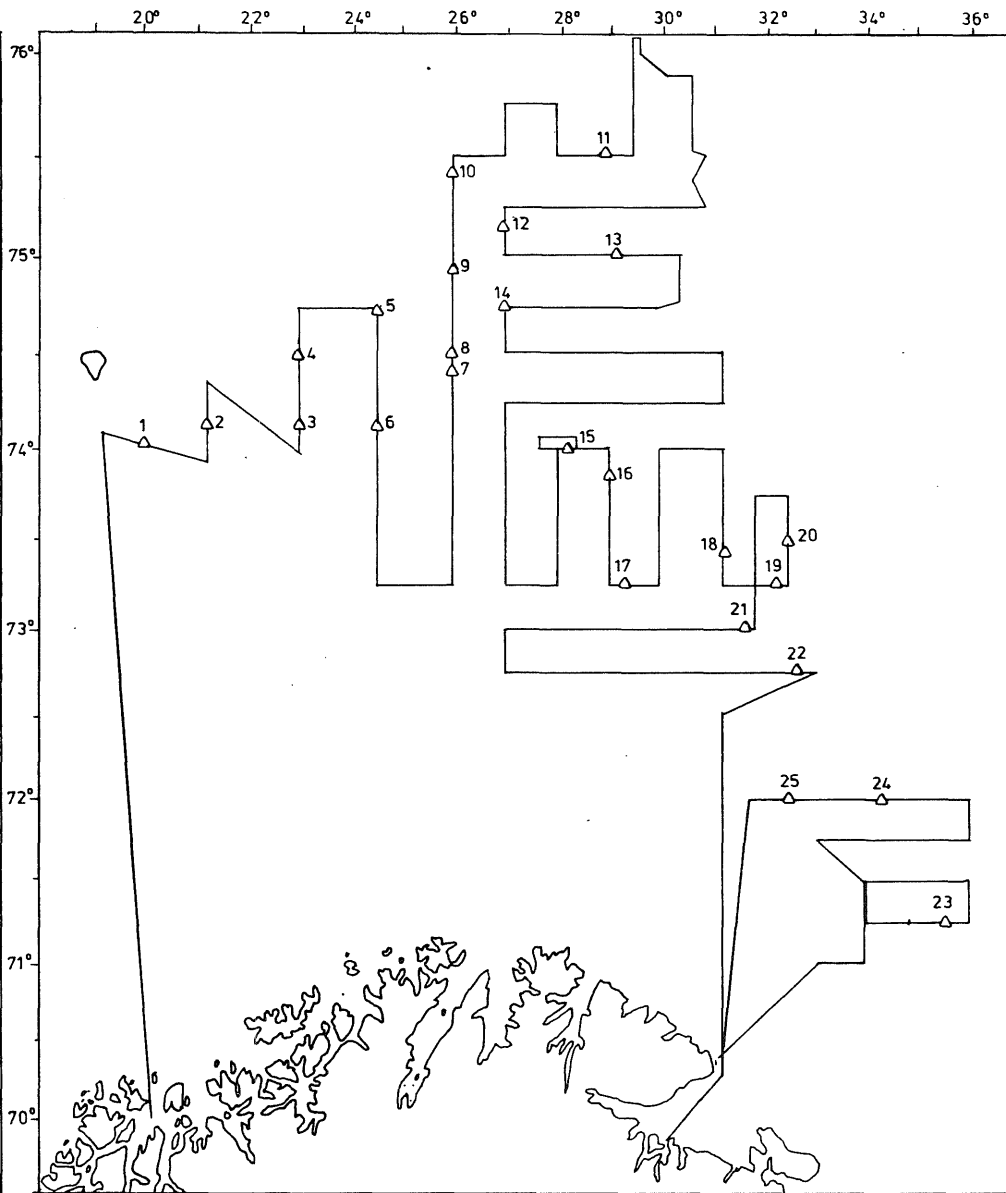
Ship: MICHAEL SARS

Cruise and ship number.	Period of cruises	Number of Stations															Continual observations					Page of track chart					
		Classical oceanogr. stations	Vertical profiles (STD/CFD)	Baththermograph (BT)	Moored Buoy	Oxygen	Nutrients	Oil Hydrocarbons	Petroleum residues	Metals	Primary org. prod.	Petroplank. pigment con.	Akkar stations	Pelagic Trawl	Bottom Trawl	Pelagic eggs and larvae	Taggings	Zooplankton	Phytoplankton	Surface temperature	Transparency		Organic matter (extract.)	Part. matter (filtration)	NO <sub>2</sub> + NO <sub>3</sub> (auto-analyzer)	Echo sounding	Echo integration
1/11	09/1-22/1		27										17	2											x	x	53
2/11	27/1-22/2		84											47			47	47							x	x	54
3/11	24/2-06/3		61										6		8										x	x	55
4/11	15/3-31/3		7										19	7											x	x	56
5/11	13/4-29/4													25											x	x	57
6/11	03/5-02/6													115											x	x	58
7/11	03/6-22/6													23											x	x	59
8/11	15/7-28/7		28										2	2			168	168							x	x	60
9/11	03/8-20/8		77										36	3											x	x	61-62
10/11	21/8-05/9		64										68	1											x	x	63
11/11	06/9-10/10		133										19	128		36									x	x	64-65
12/11	13/10-10/11		39								88	8	16												x	x	66-67





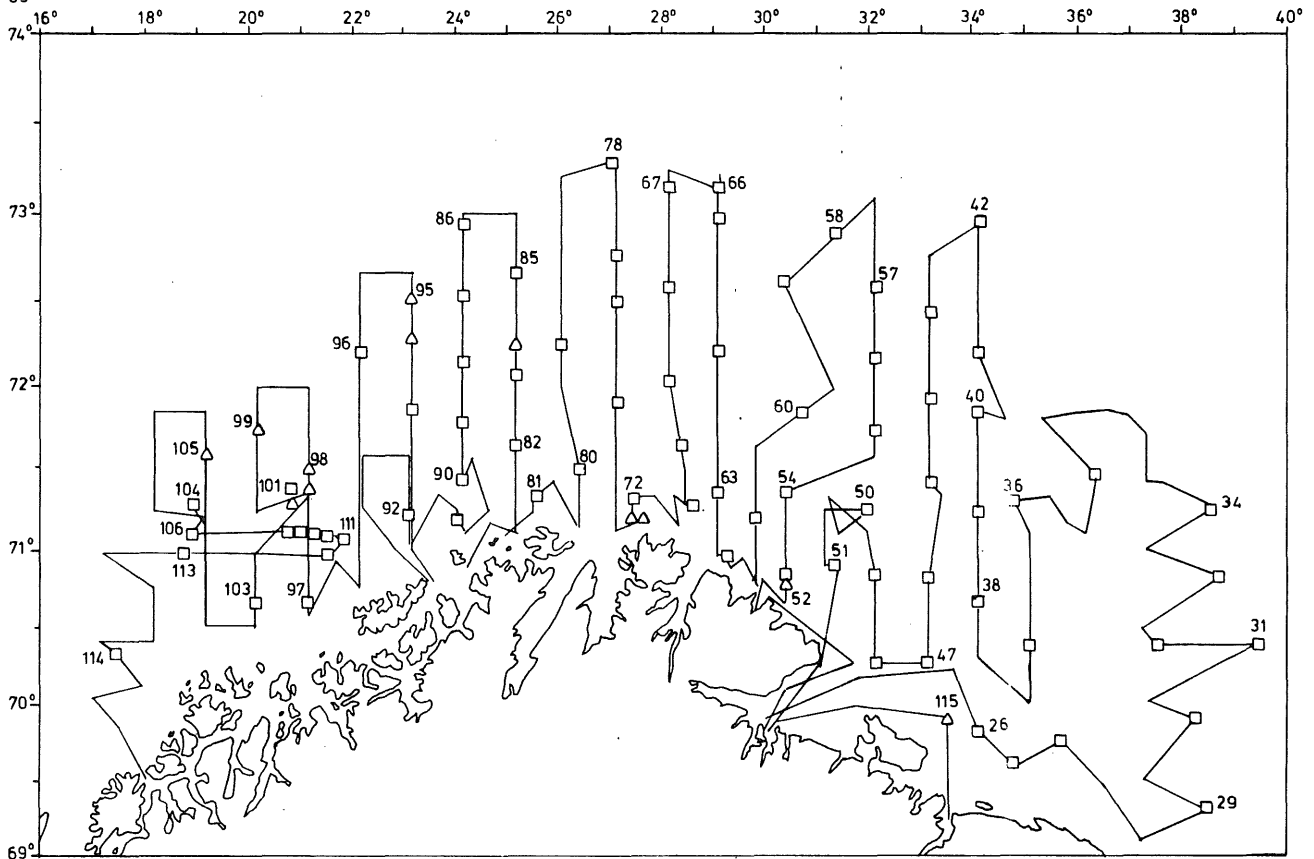
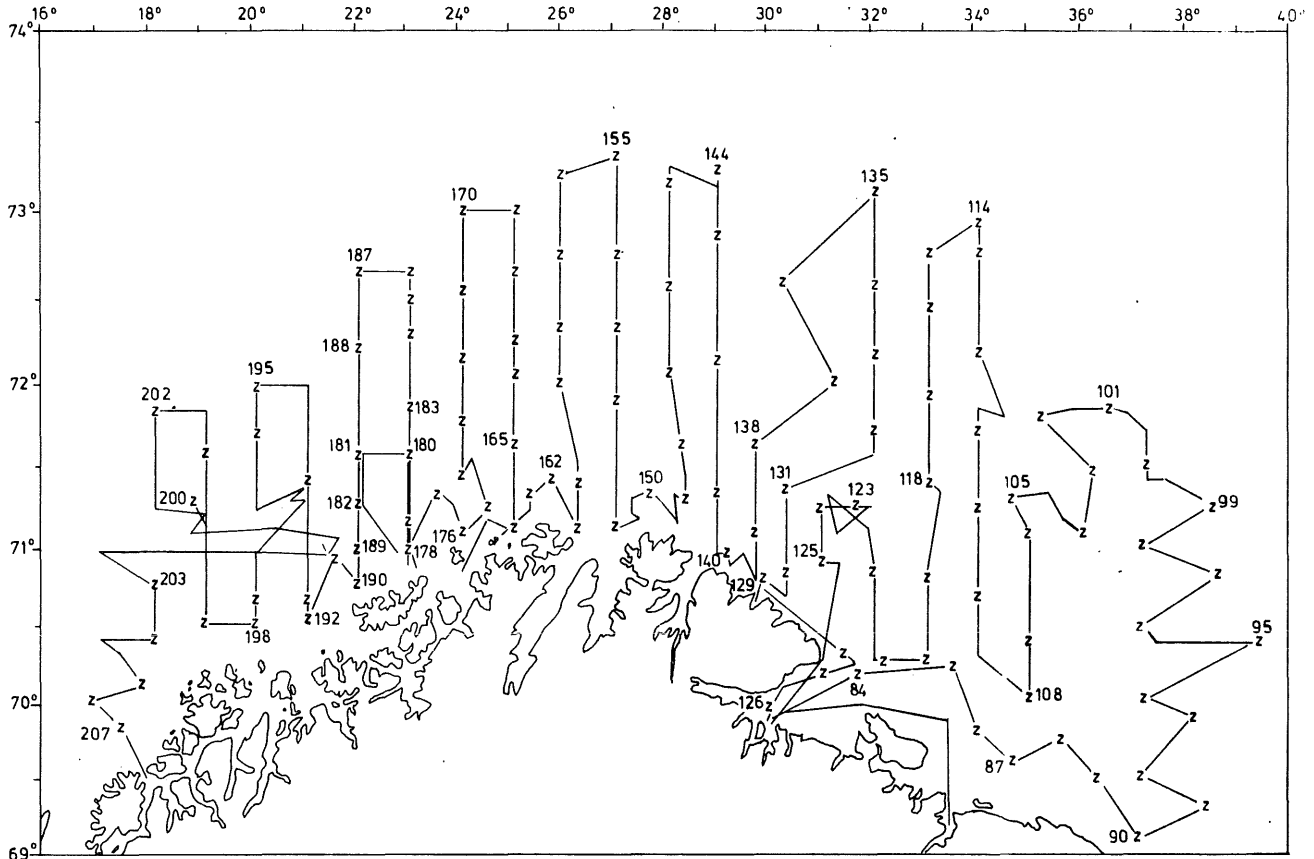
8 - 23 JAN. 1982 ST. NO. 1 - 83



TRAWL ST. NO. 1 - 25

"G.O. SARS"



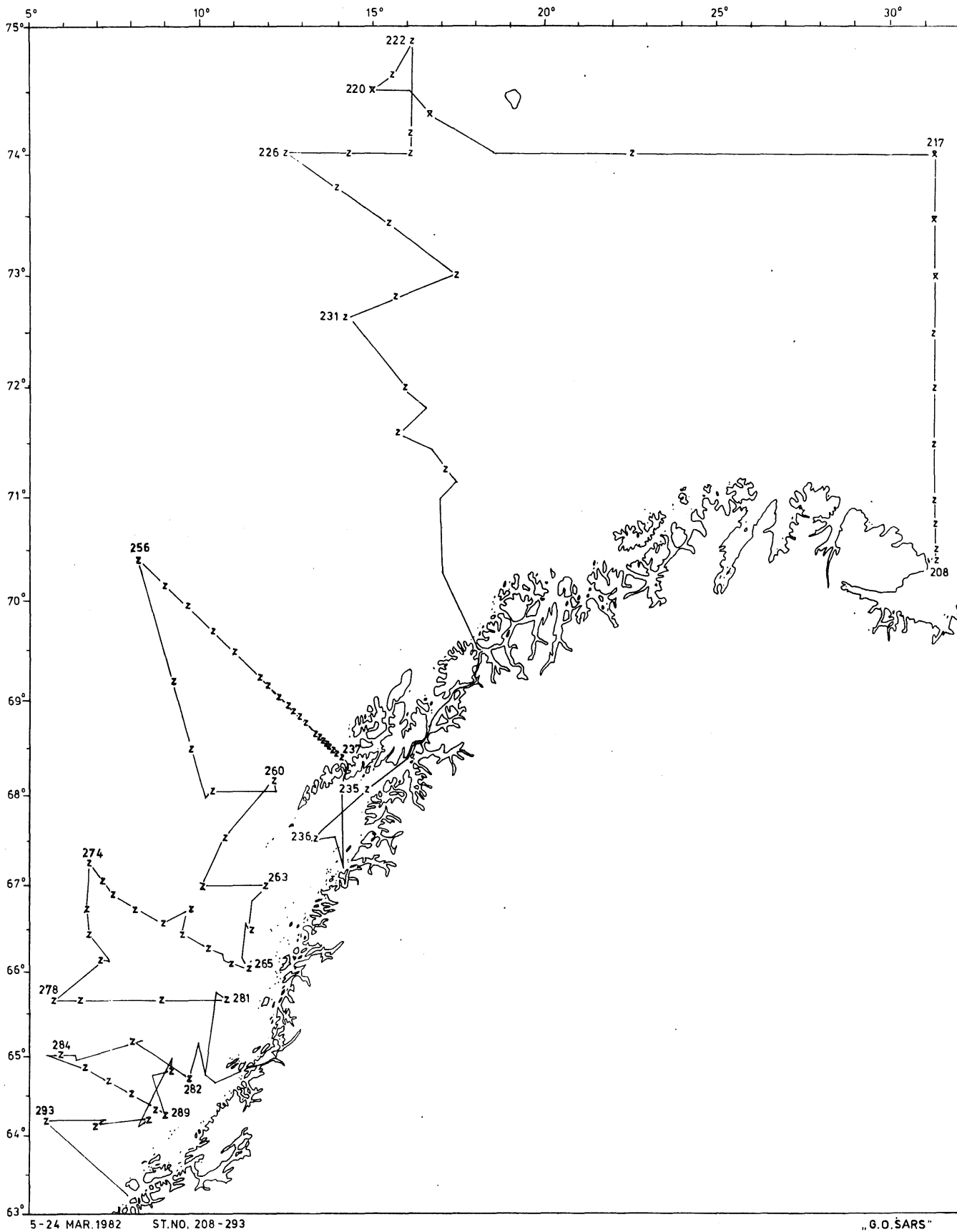


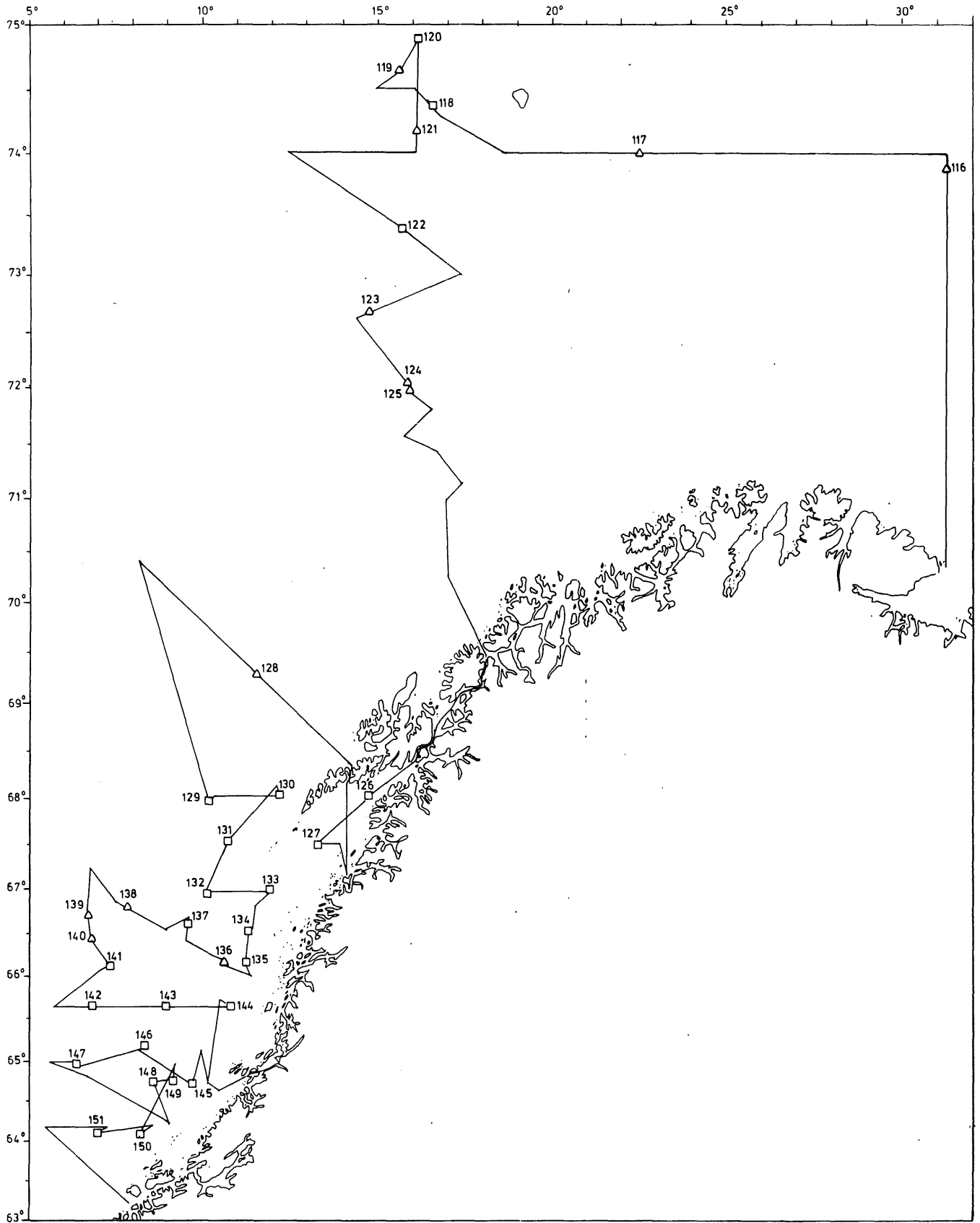
26 JAN. - 5 MAR. 1982

ST. NO. 84 - 207

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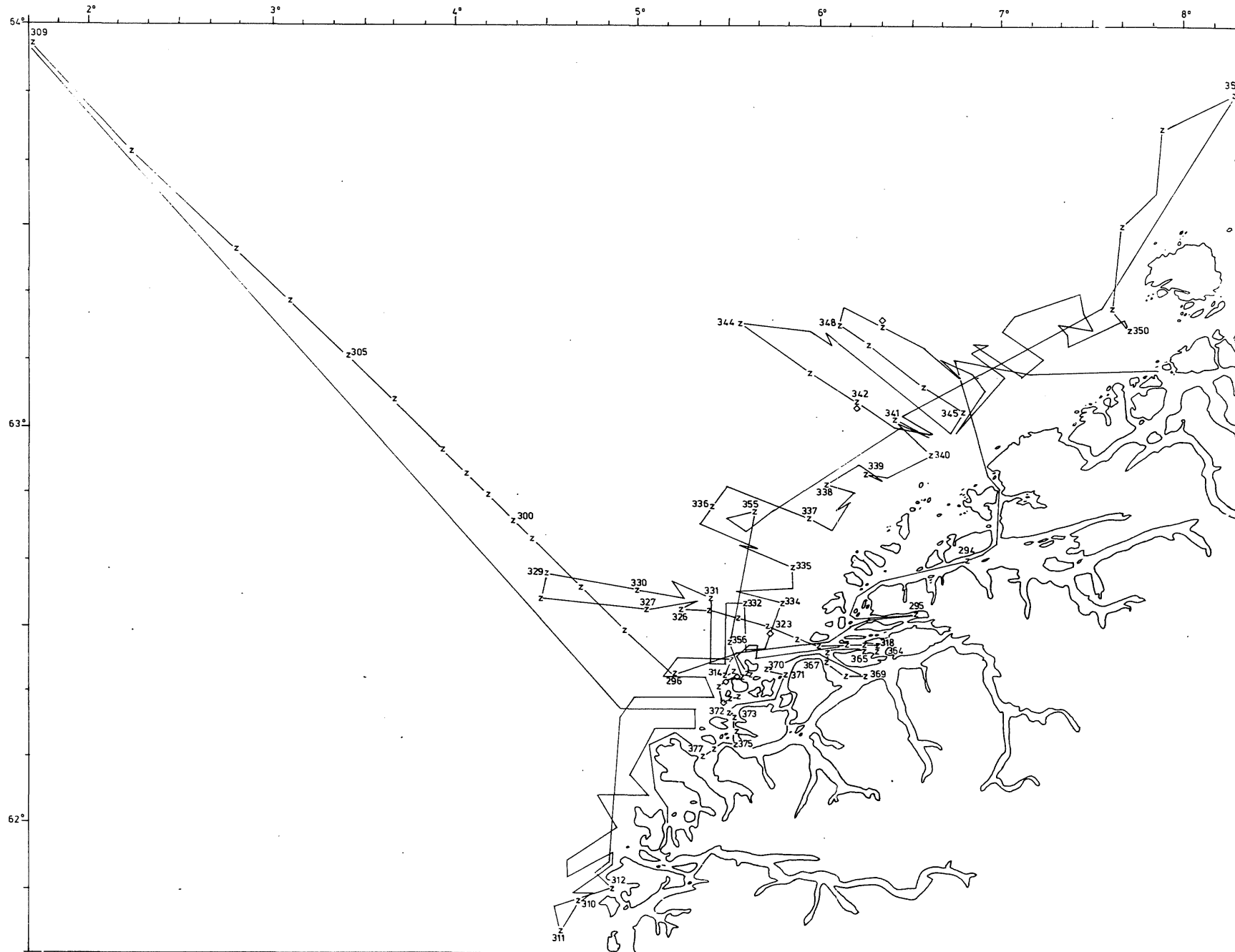
„G. O. SARS“





5 - 24 MAR. 1982 TRAWL ST. NO. 116 - 151

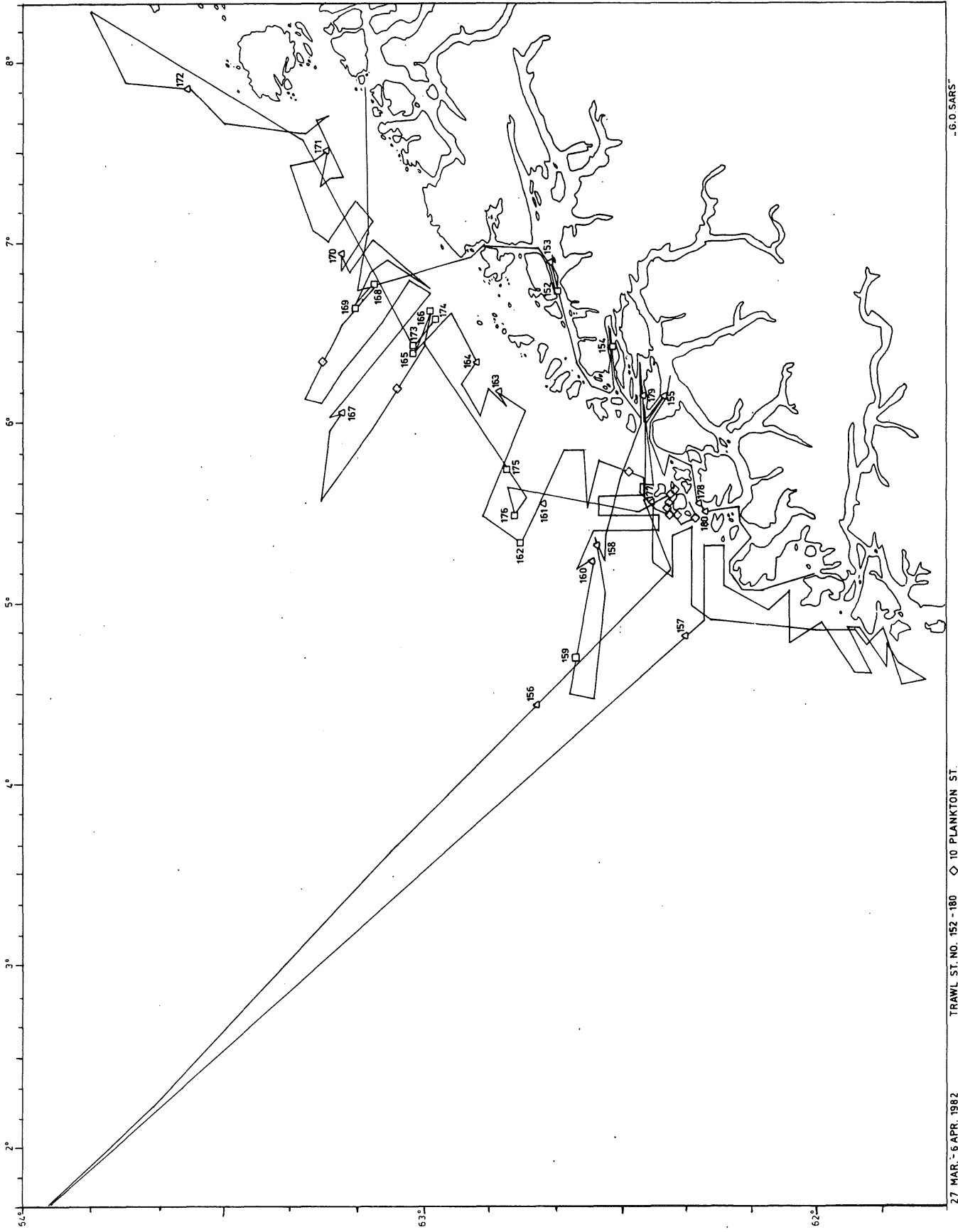
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27 MAR. - 6 APR 1982

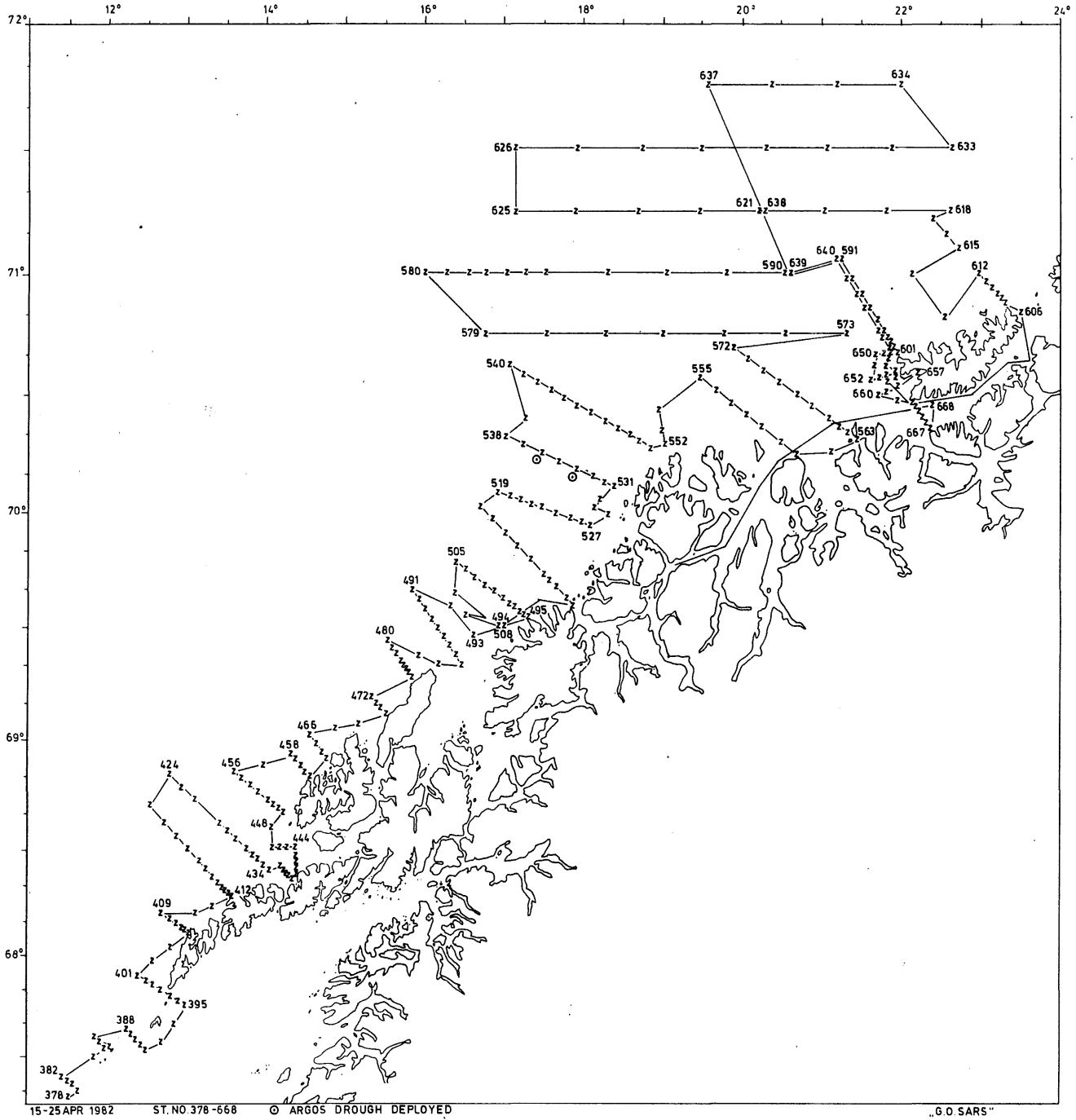
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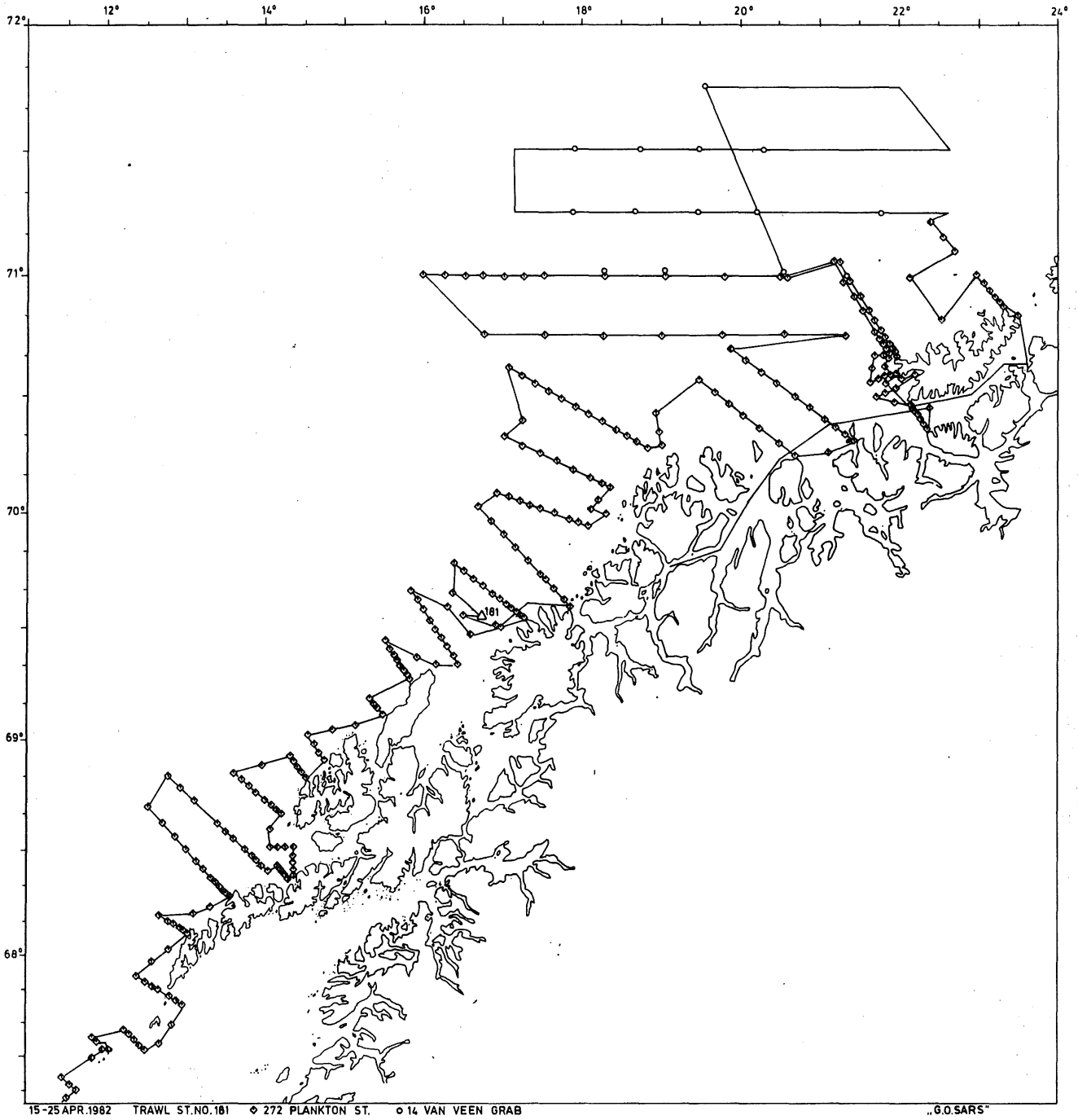
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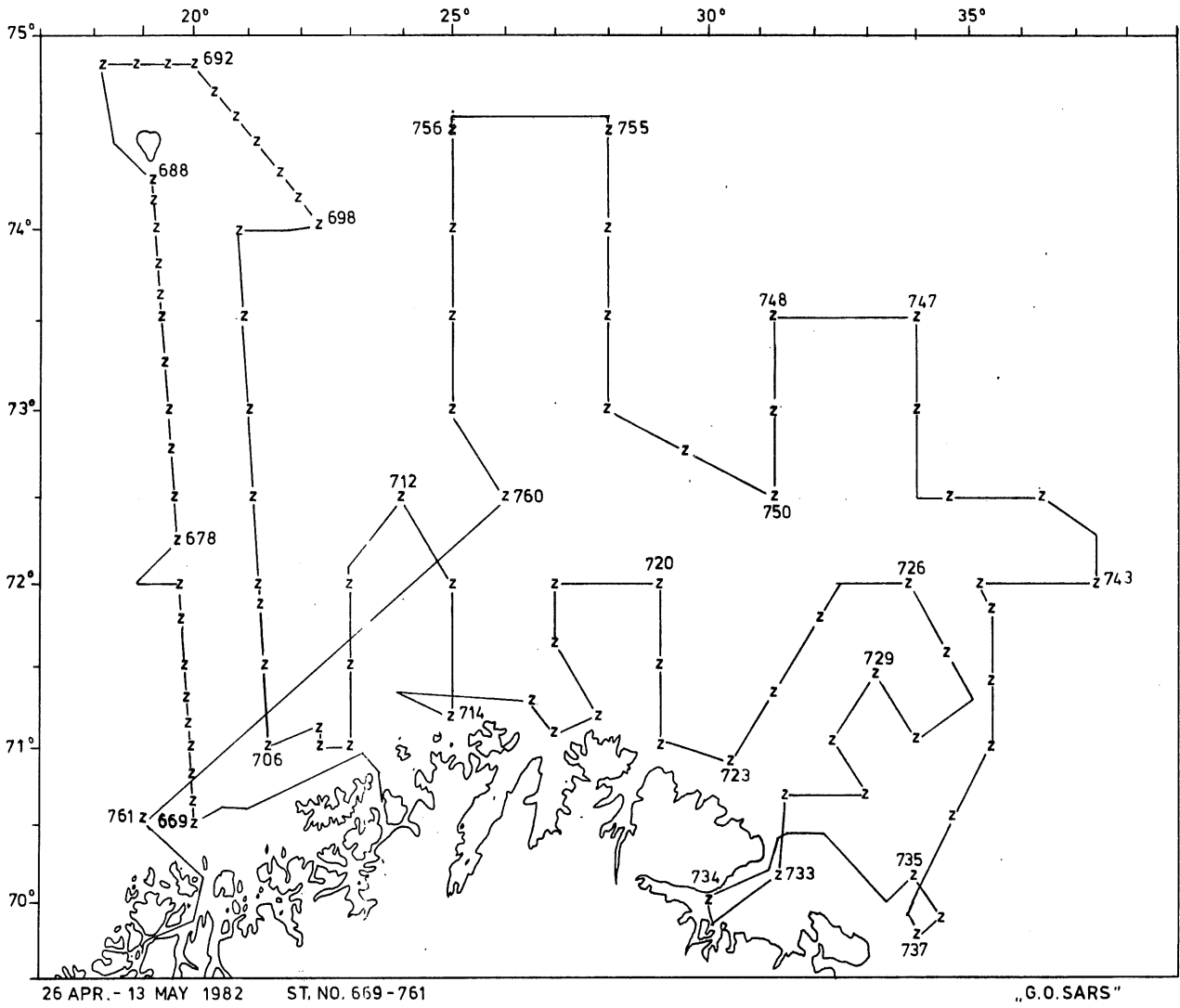


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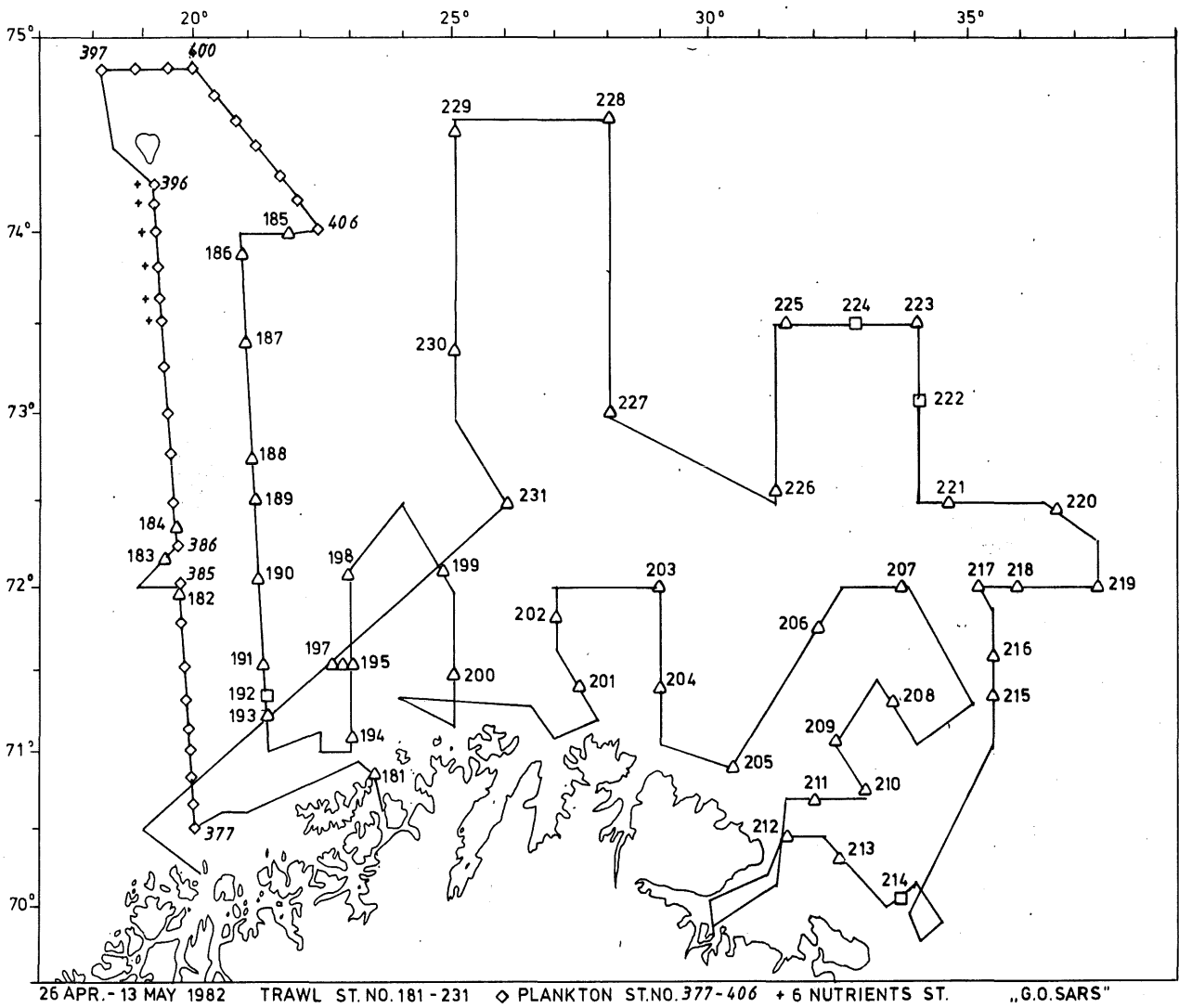
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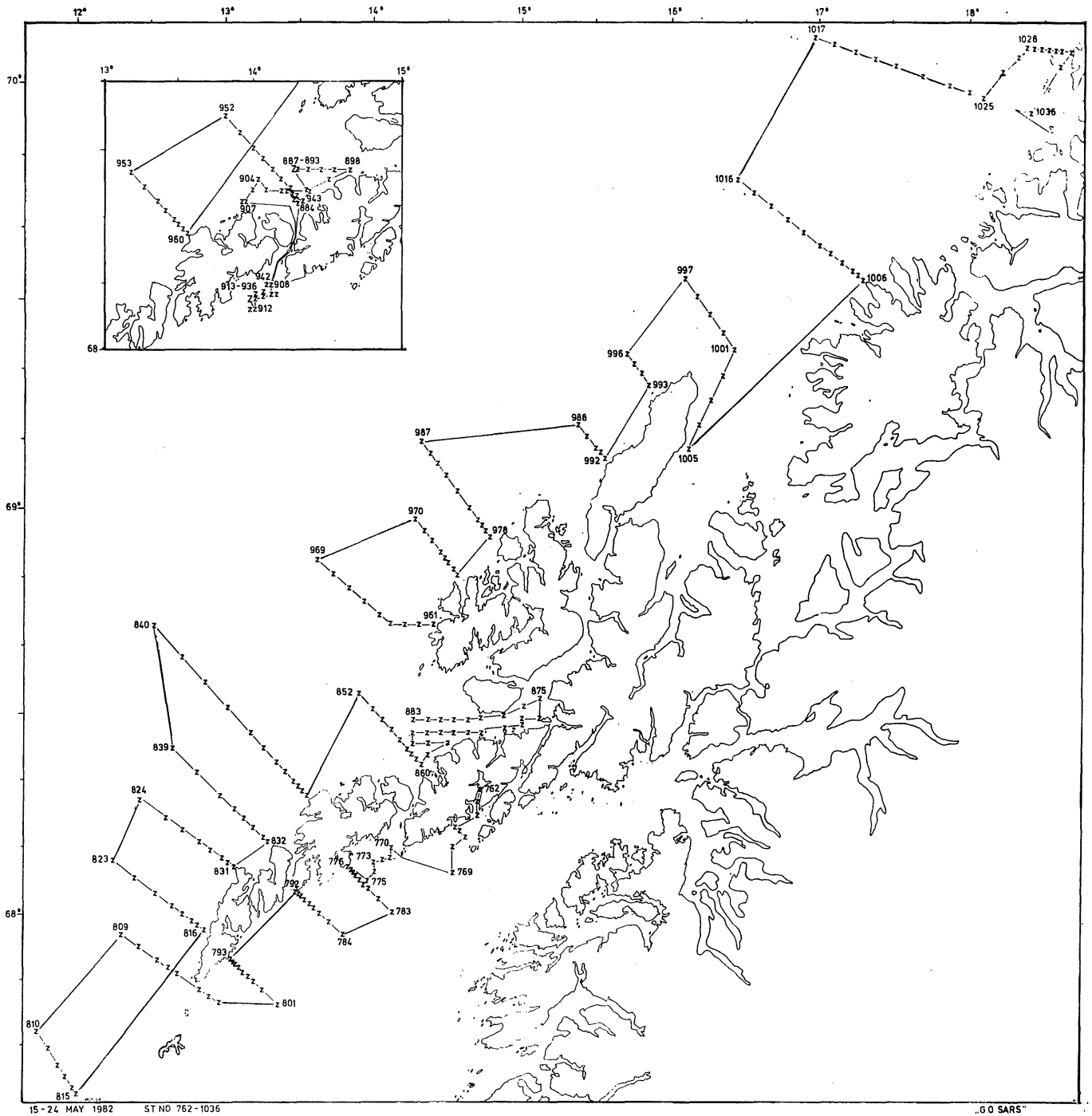


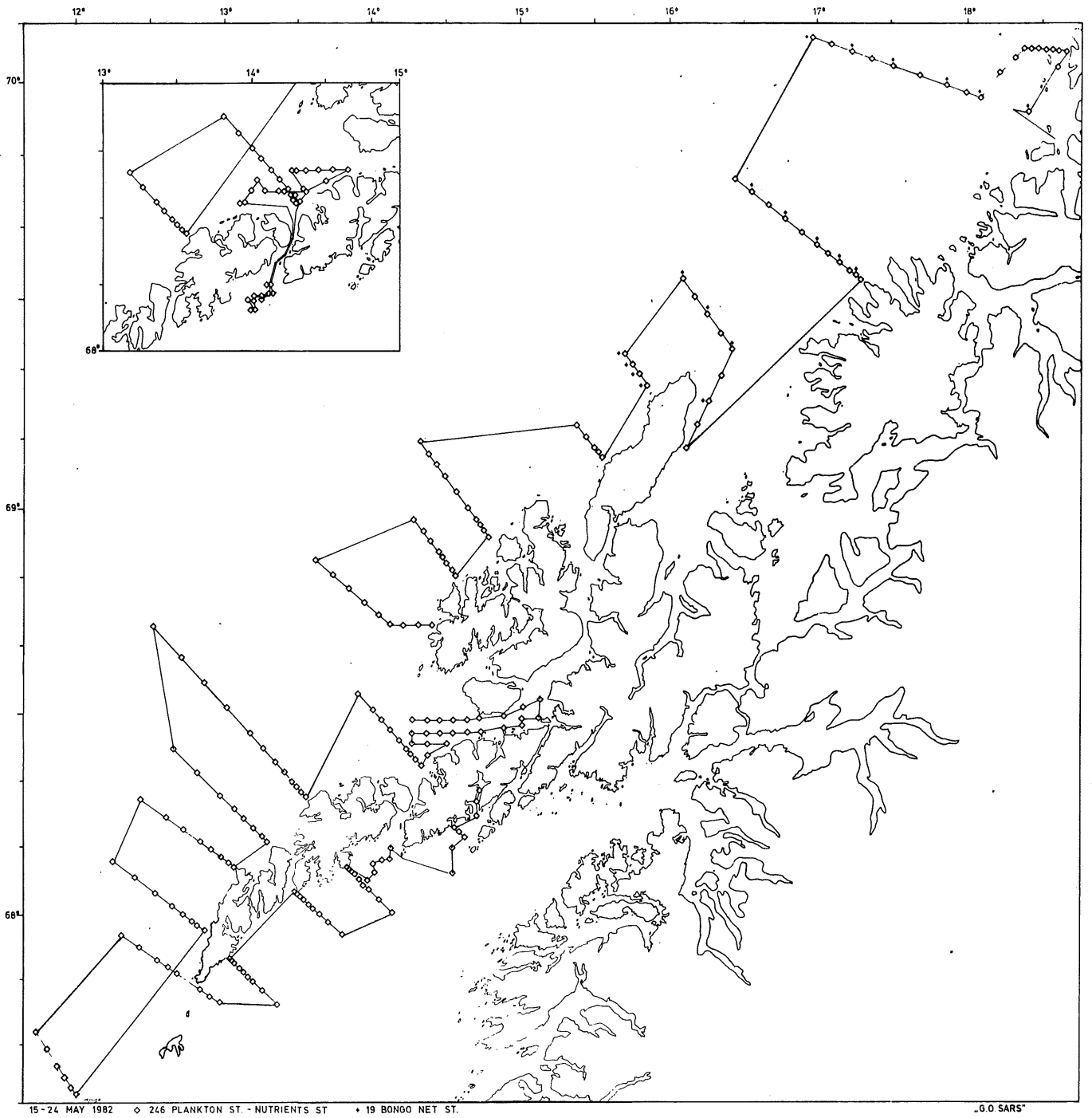


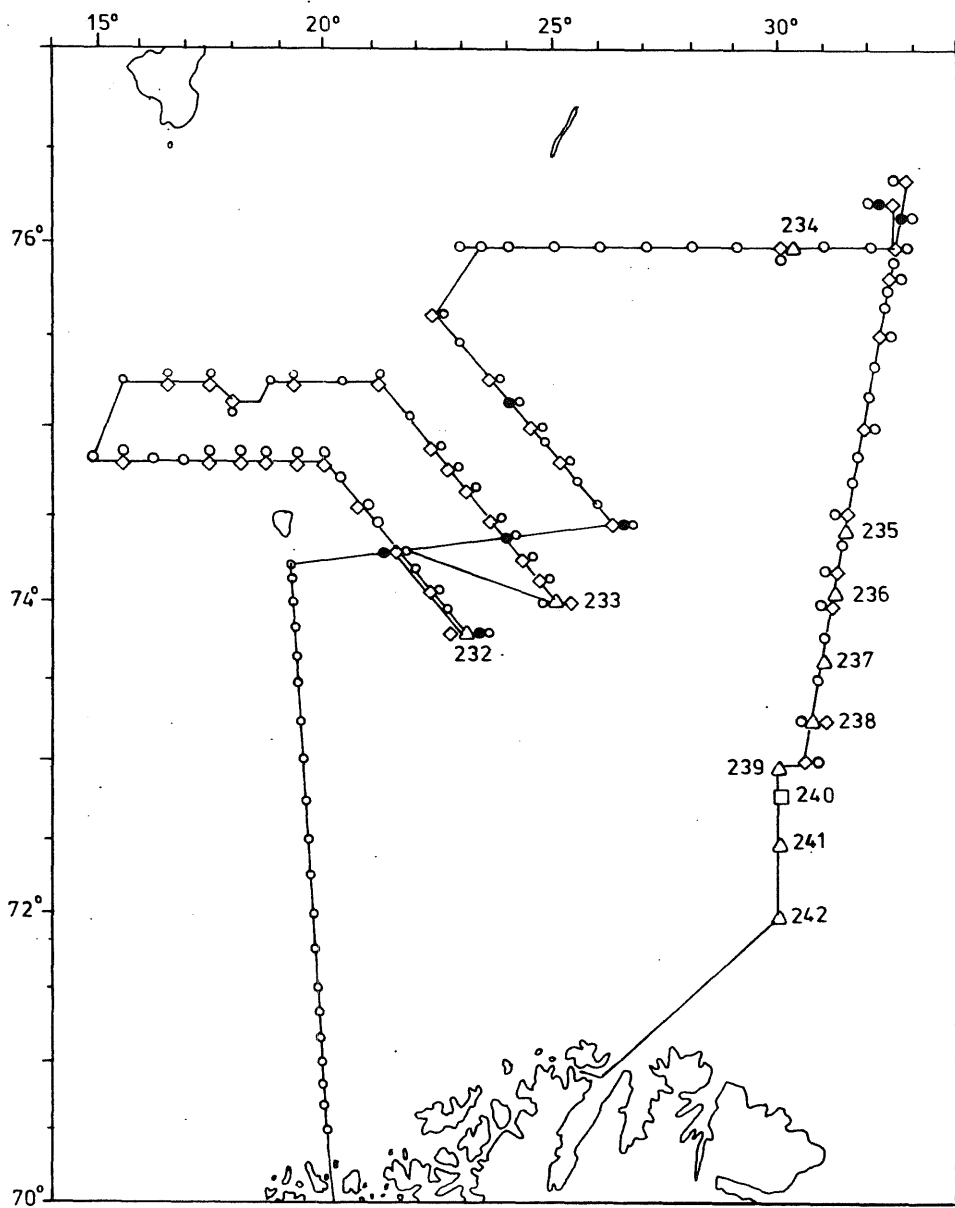
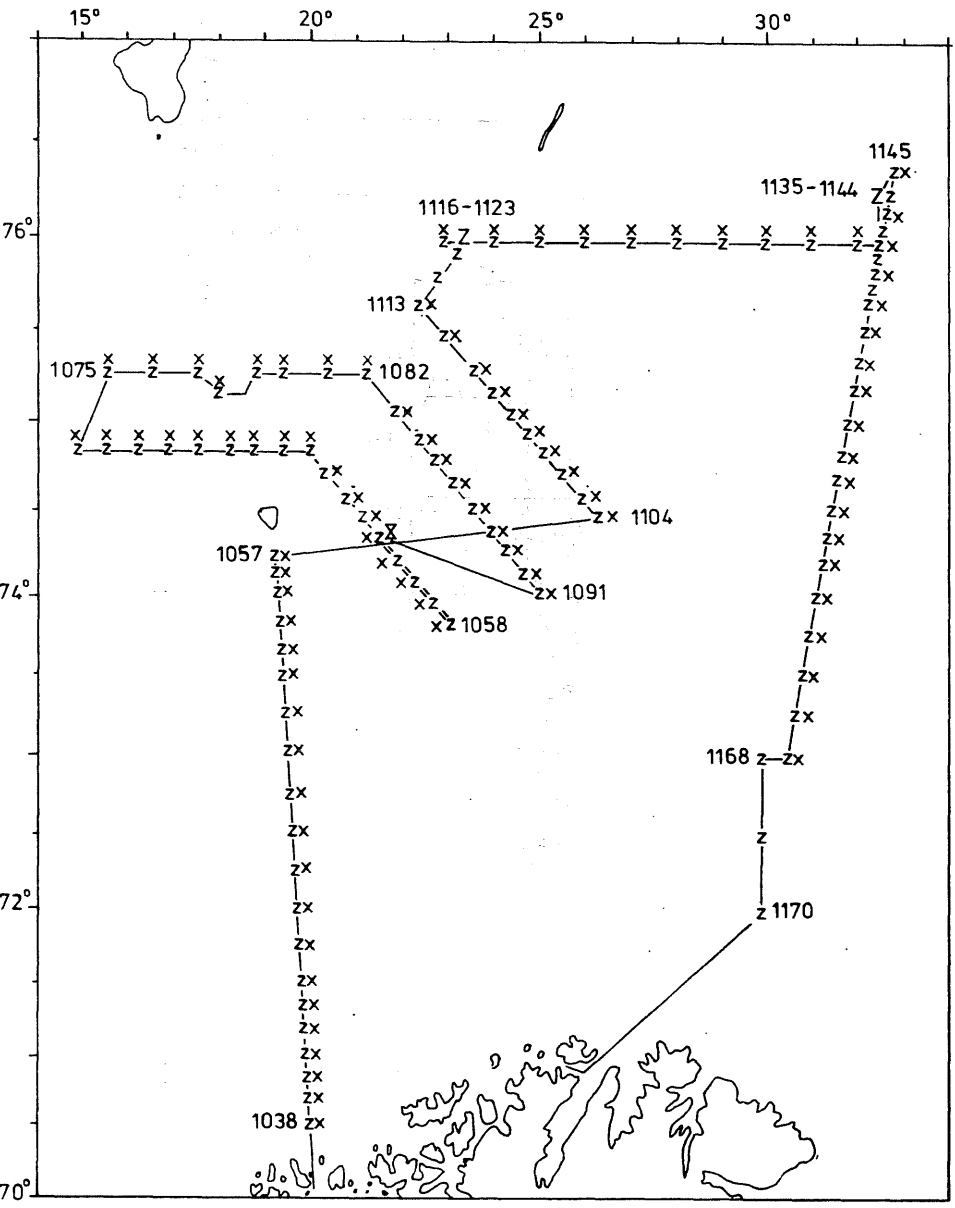




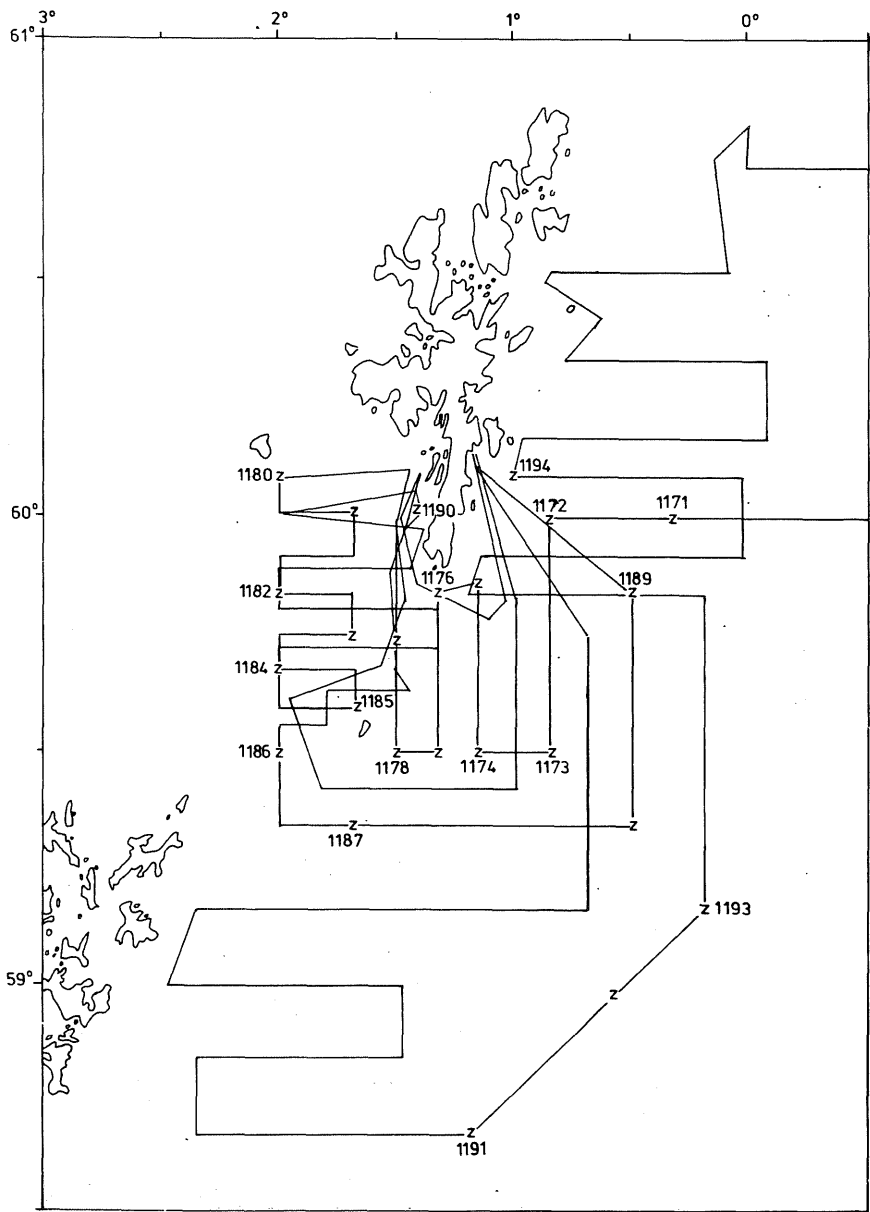




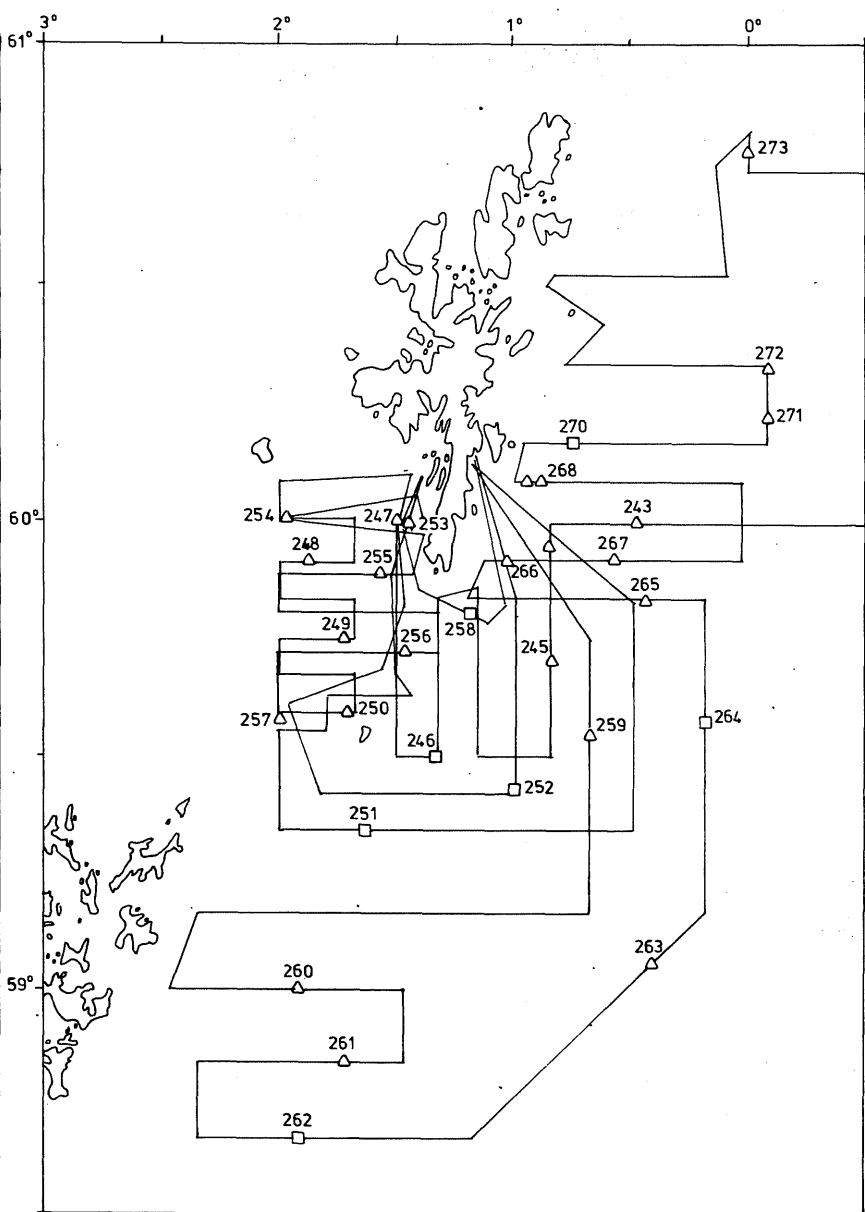




25 MAY - 11 JUN. 1982 ST. NO. 1038 - 1170 X MOORED BUOY TRAWL ST. NO. 232 - 242 ◇ 39 GULF BONGO ST. ● 7 ISAAC KID ST. ○ 130 YUDAY NET ST. „G.O.SARS”

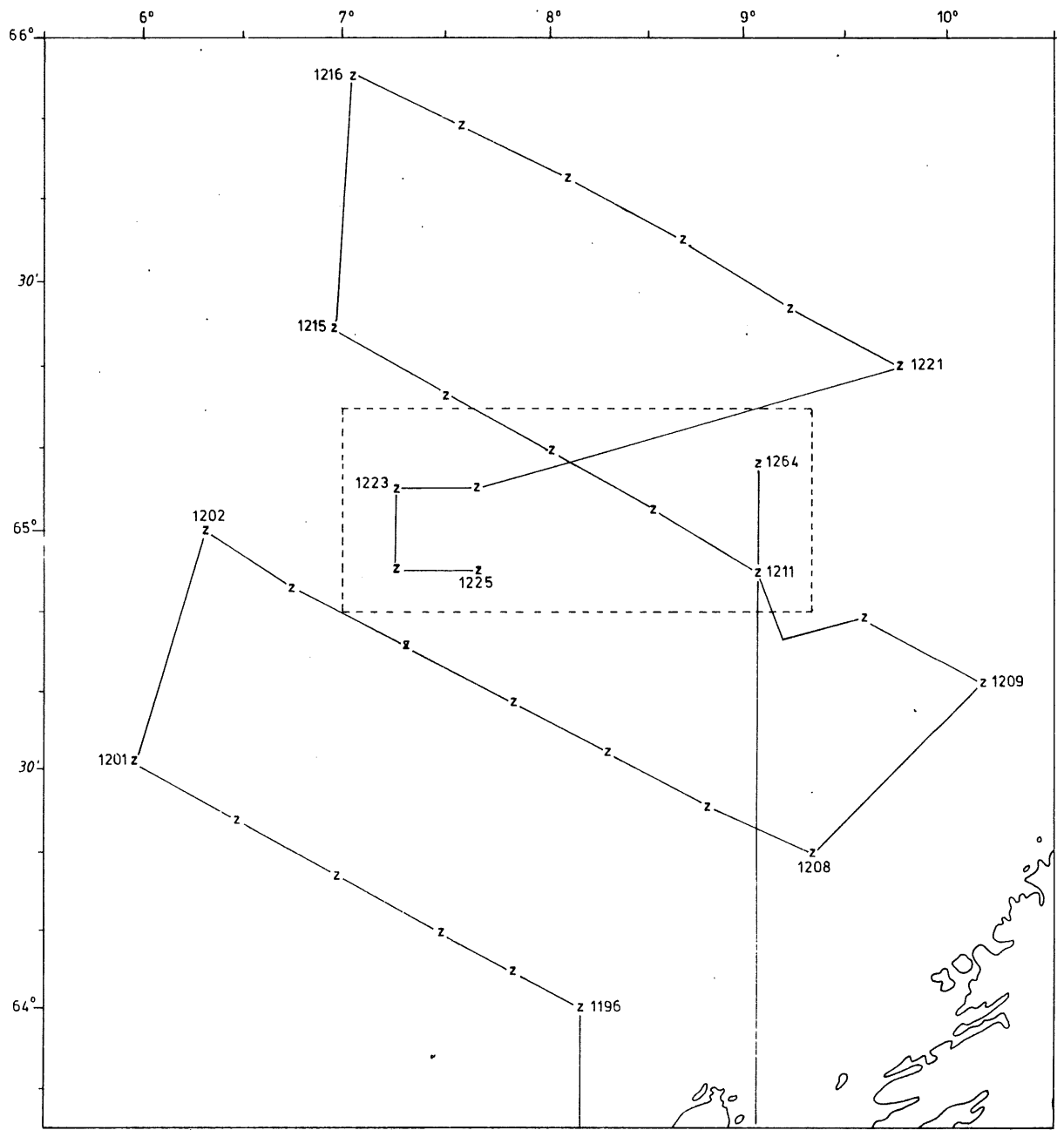
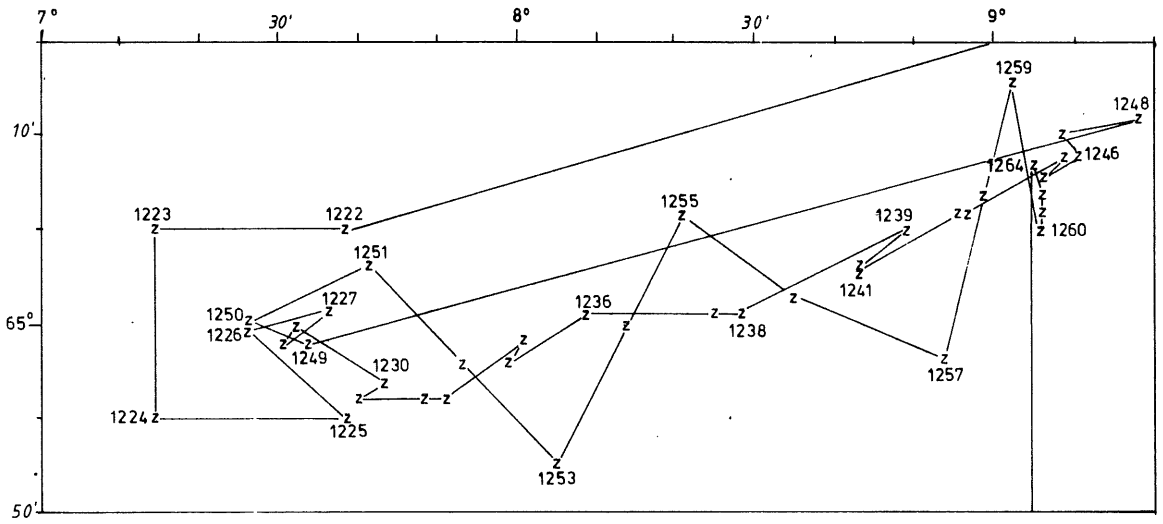


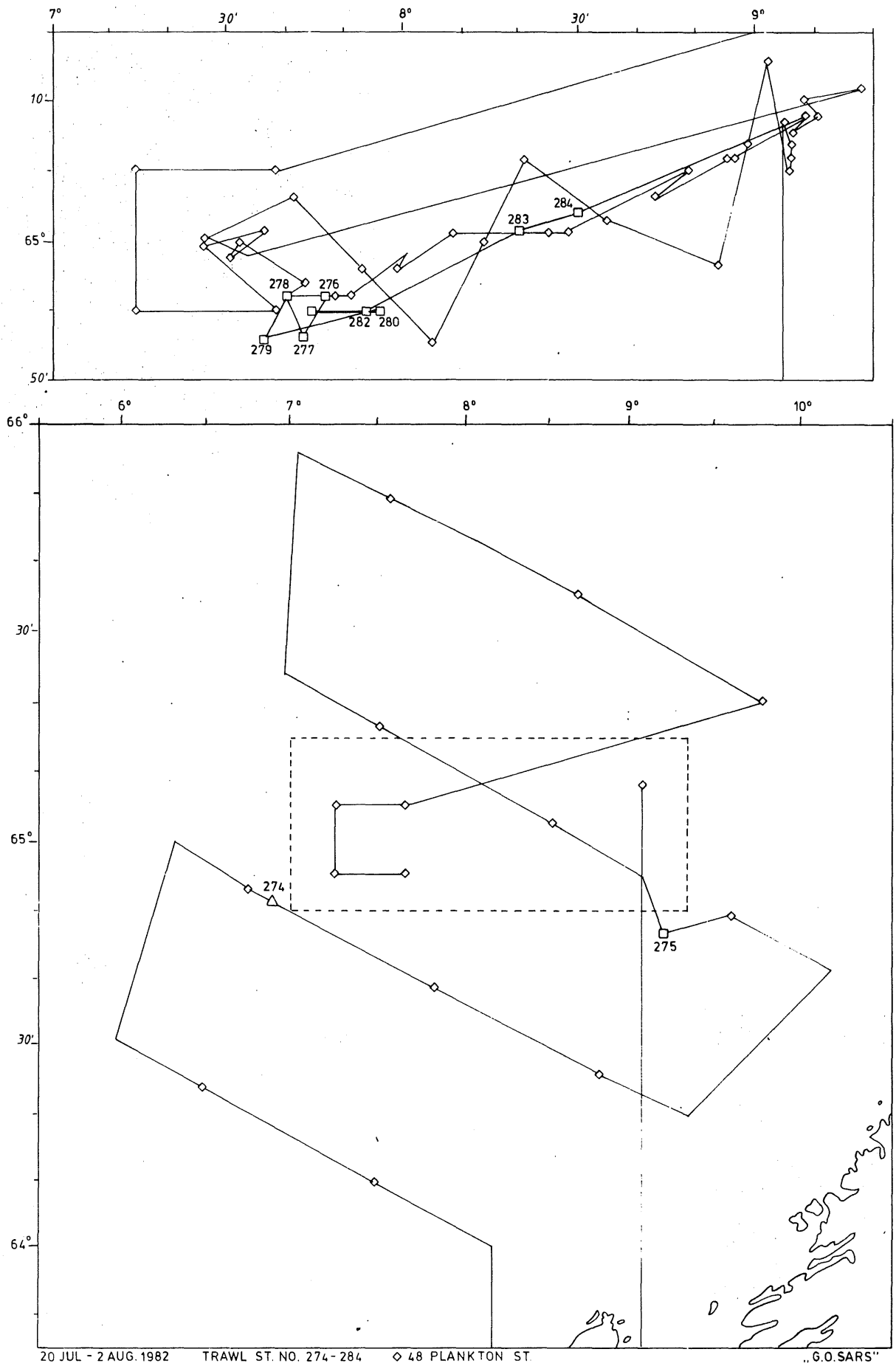
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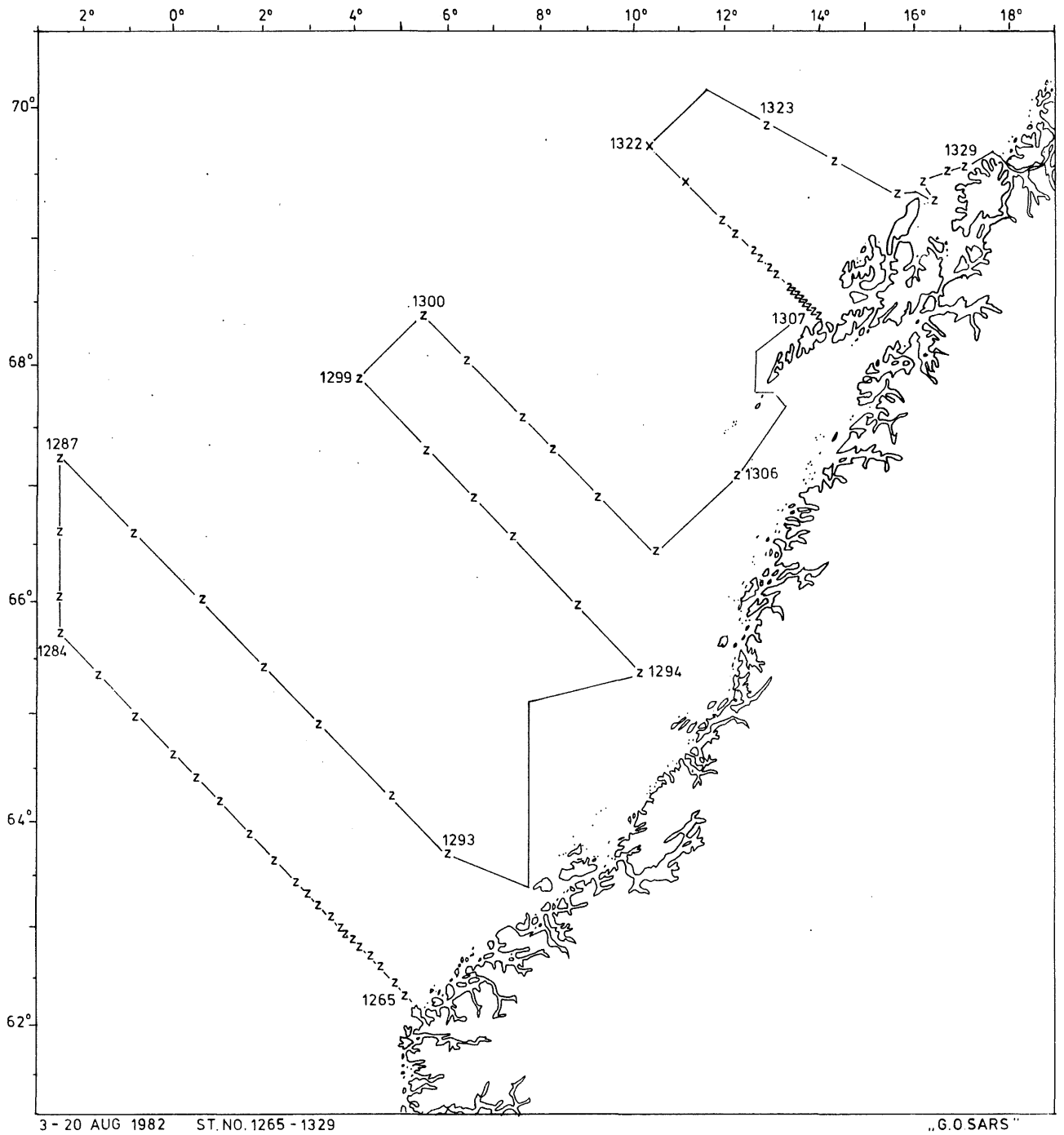
„G. O. SARS“



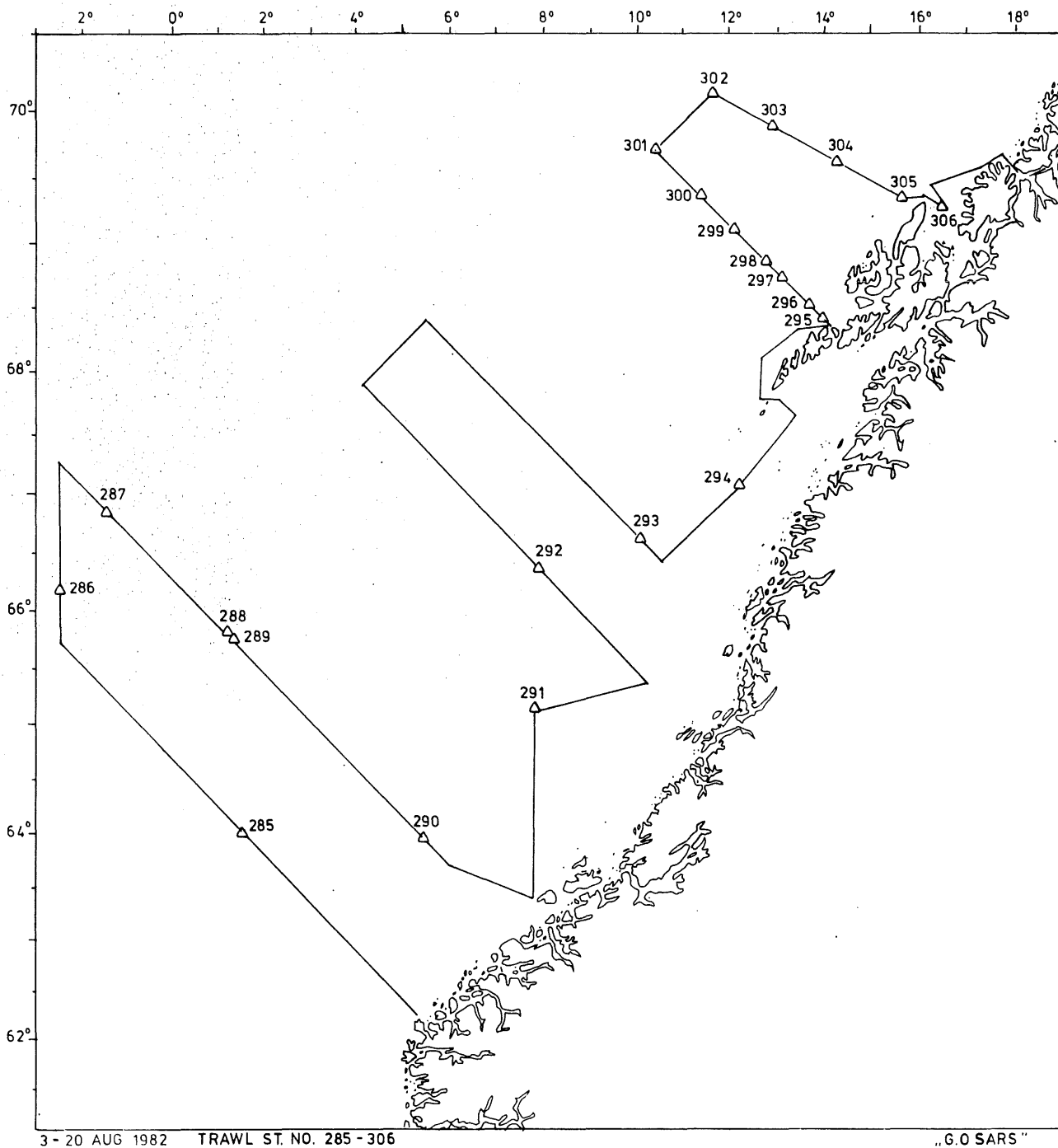


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„G.O.SARS“

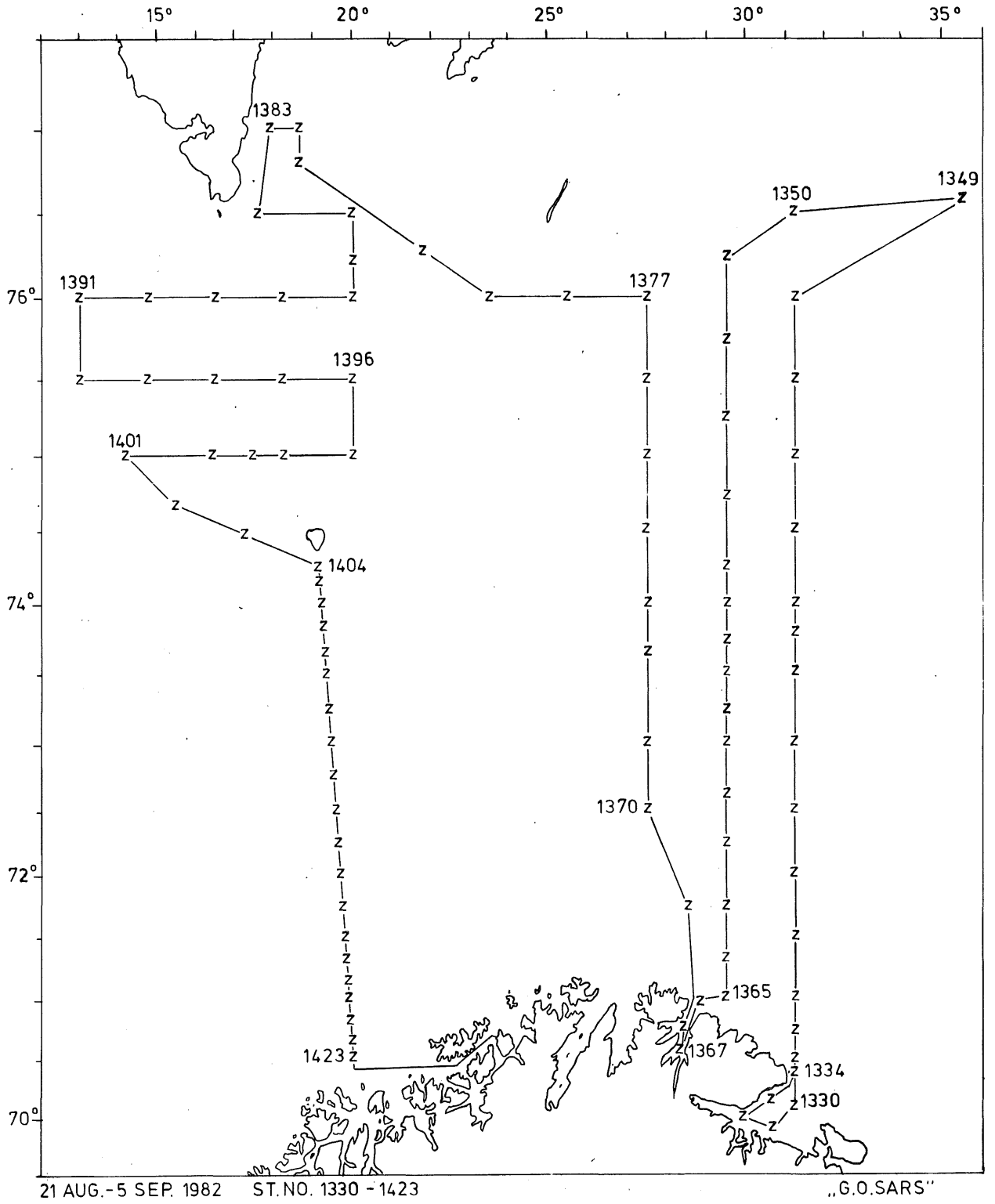


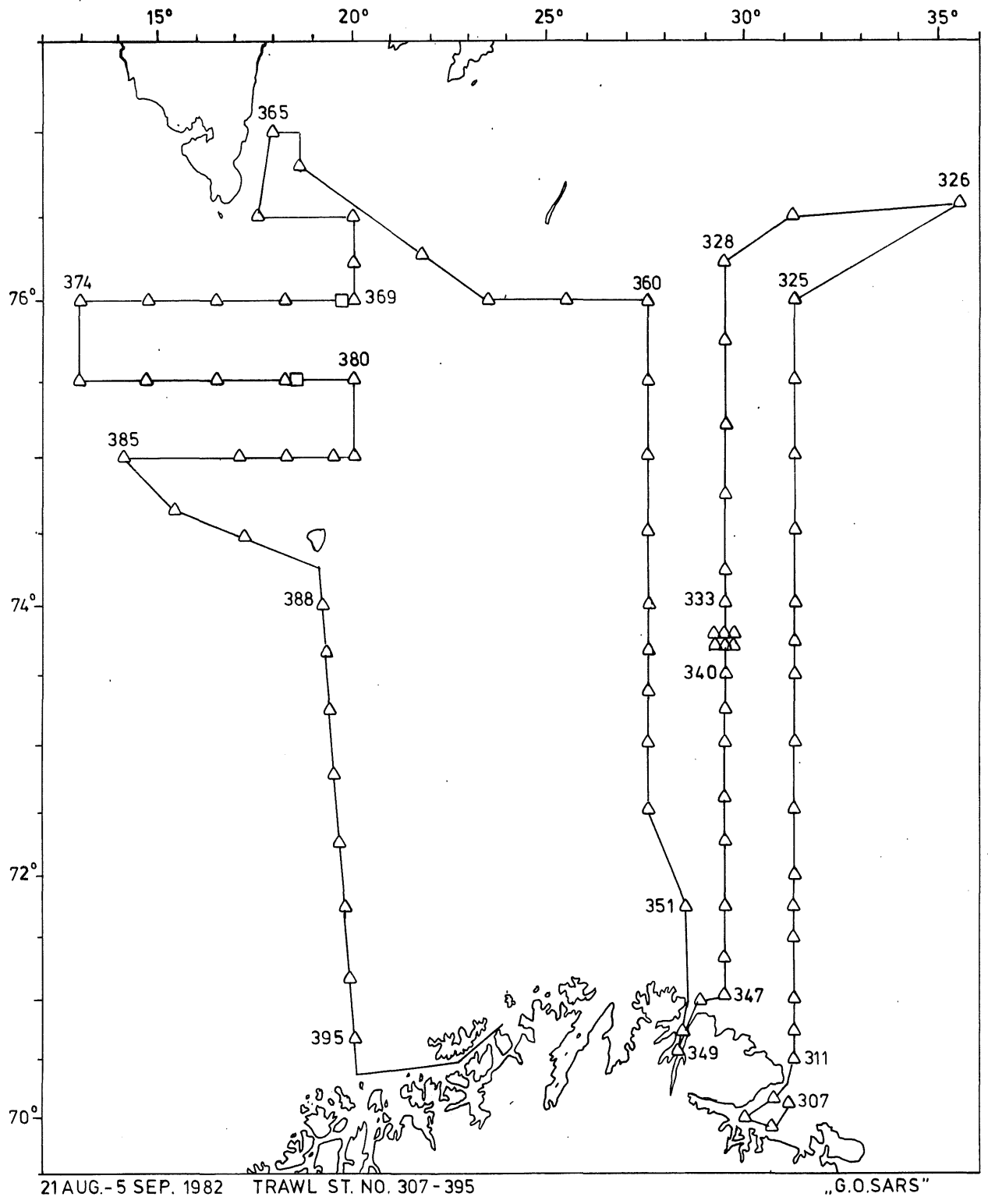


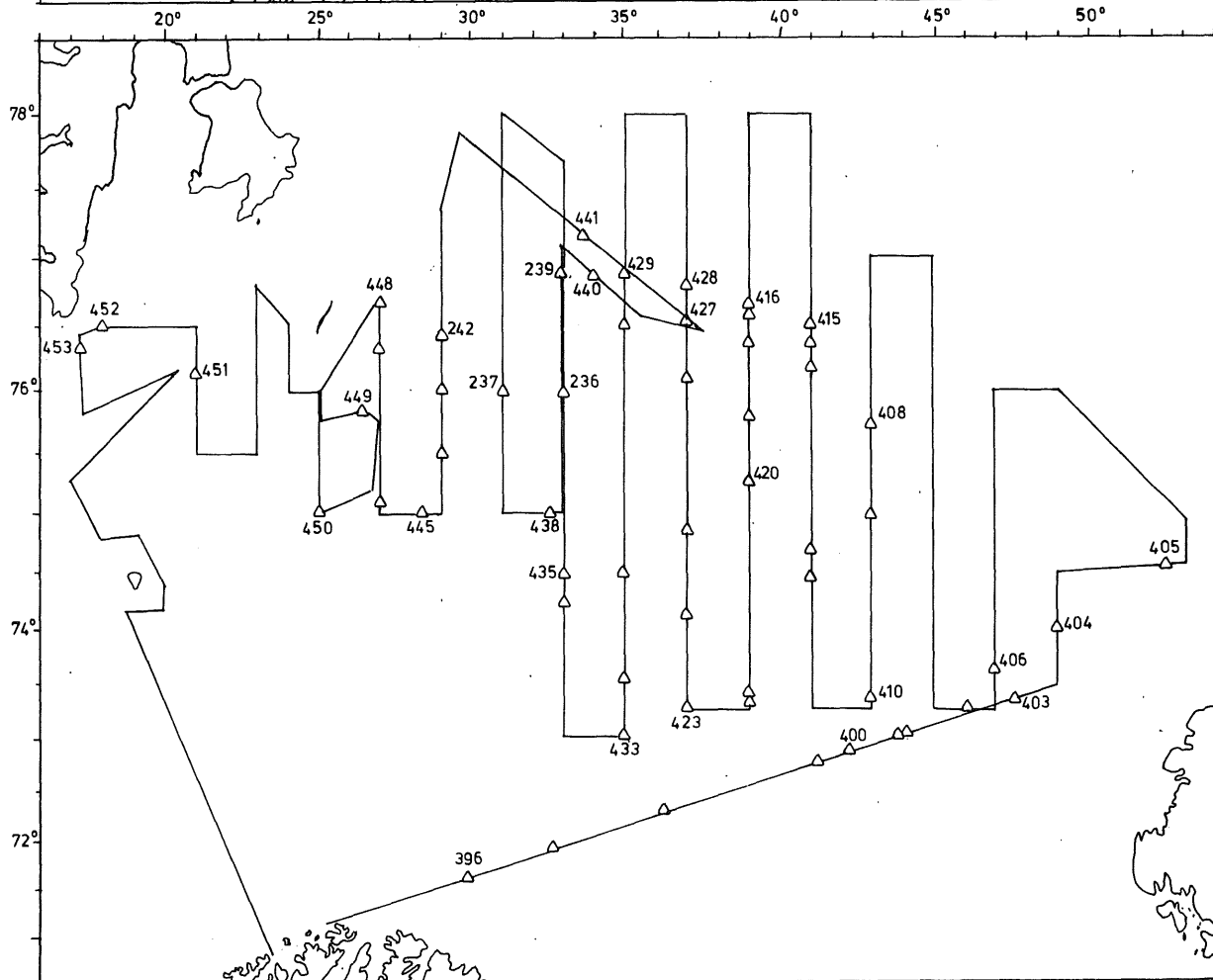
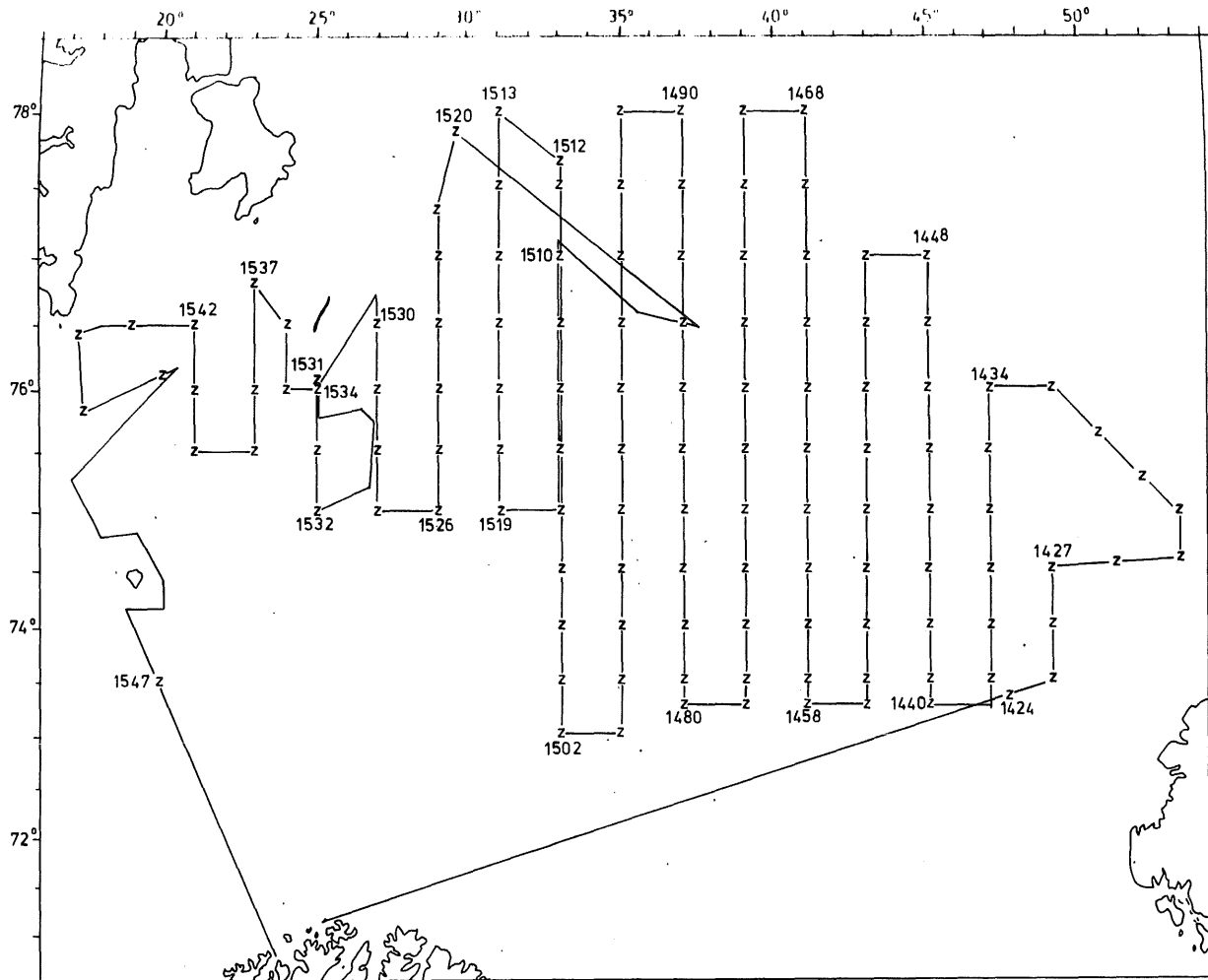


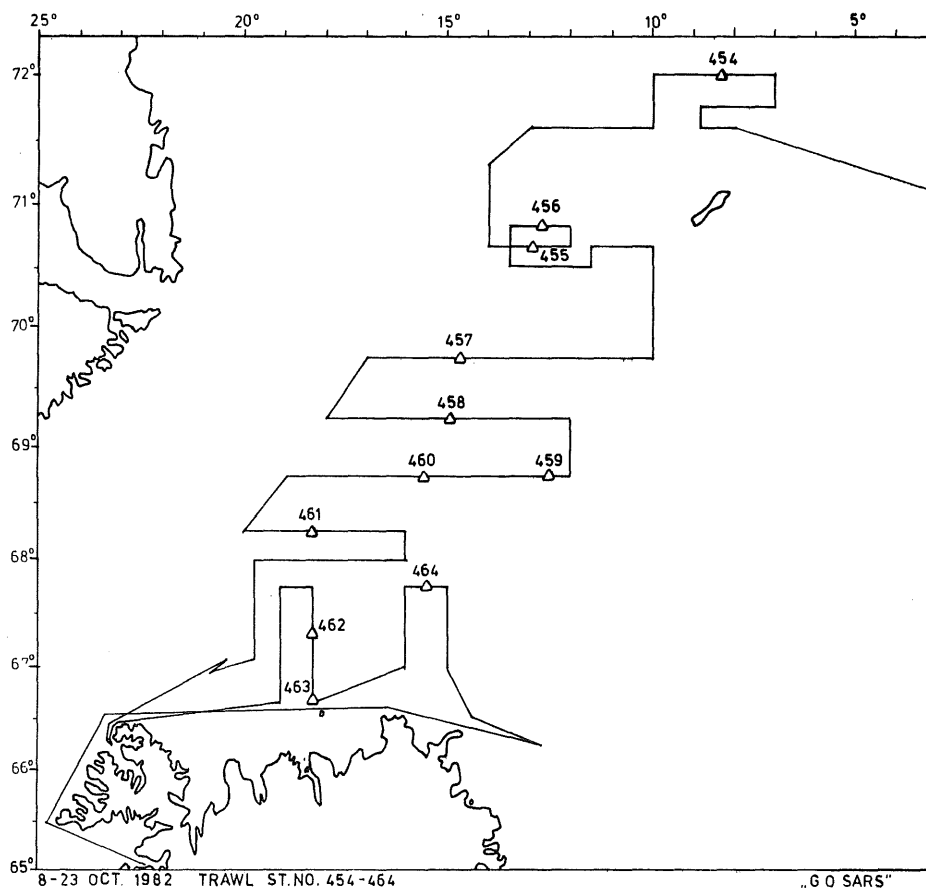
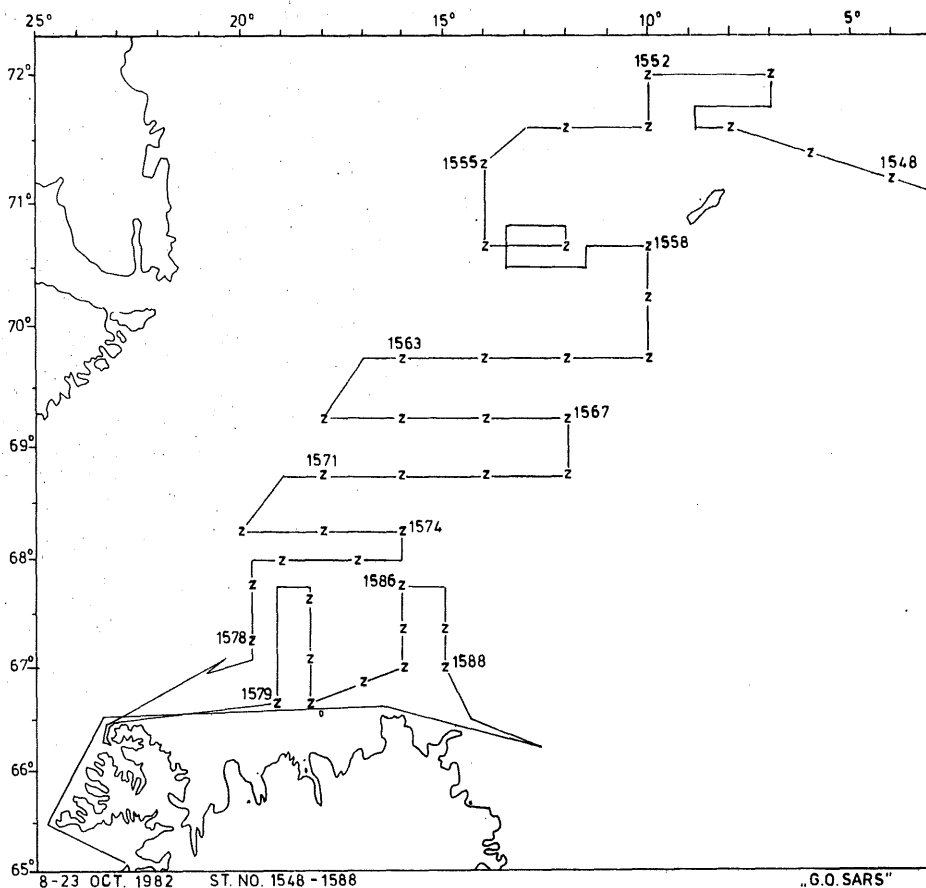
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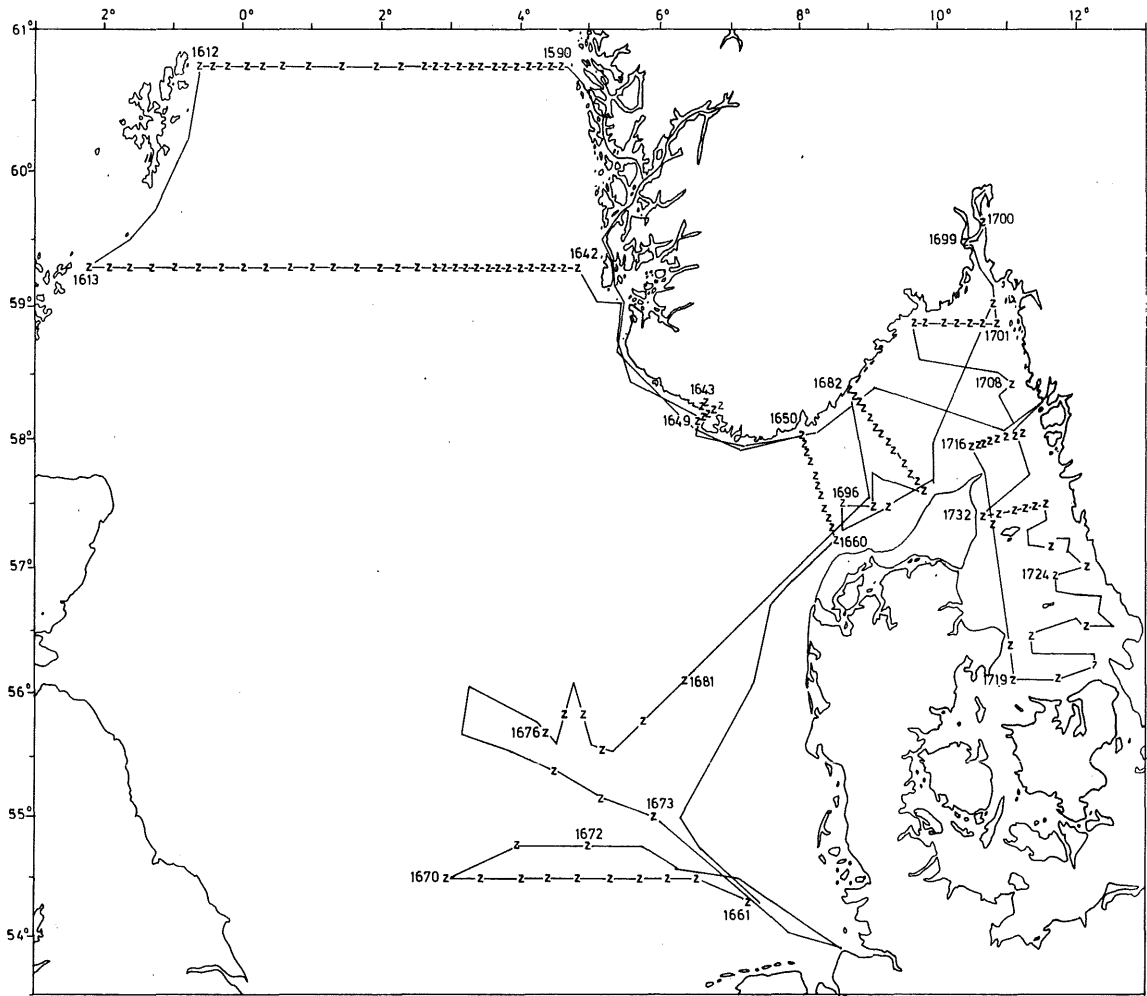
„G.O SARS“





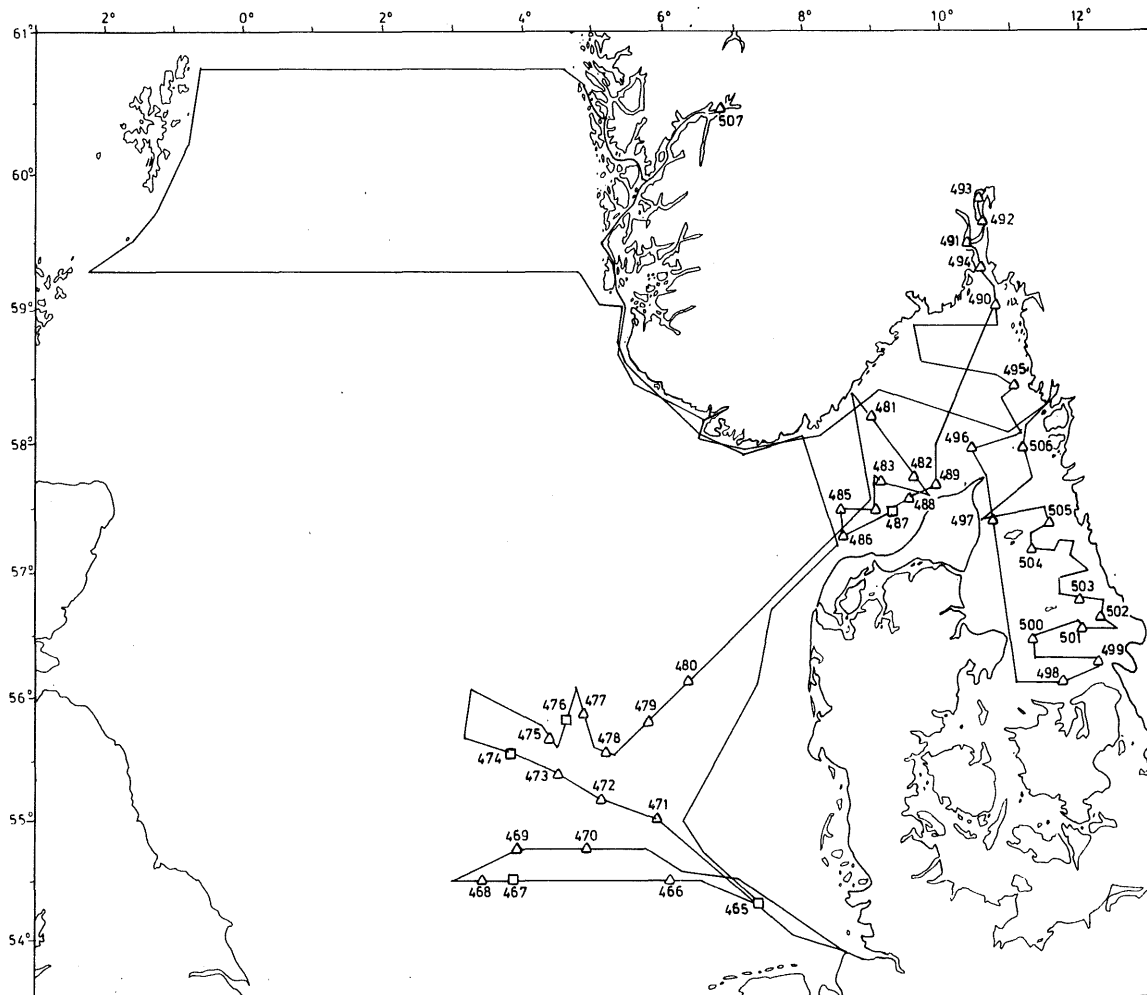






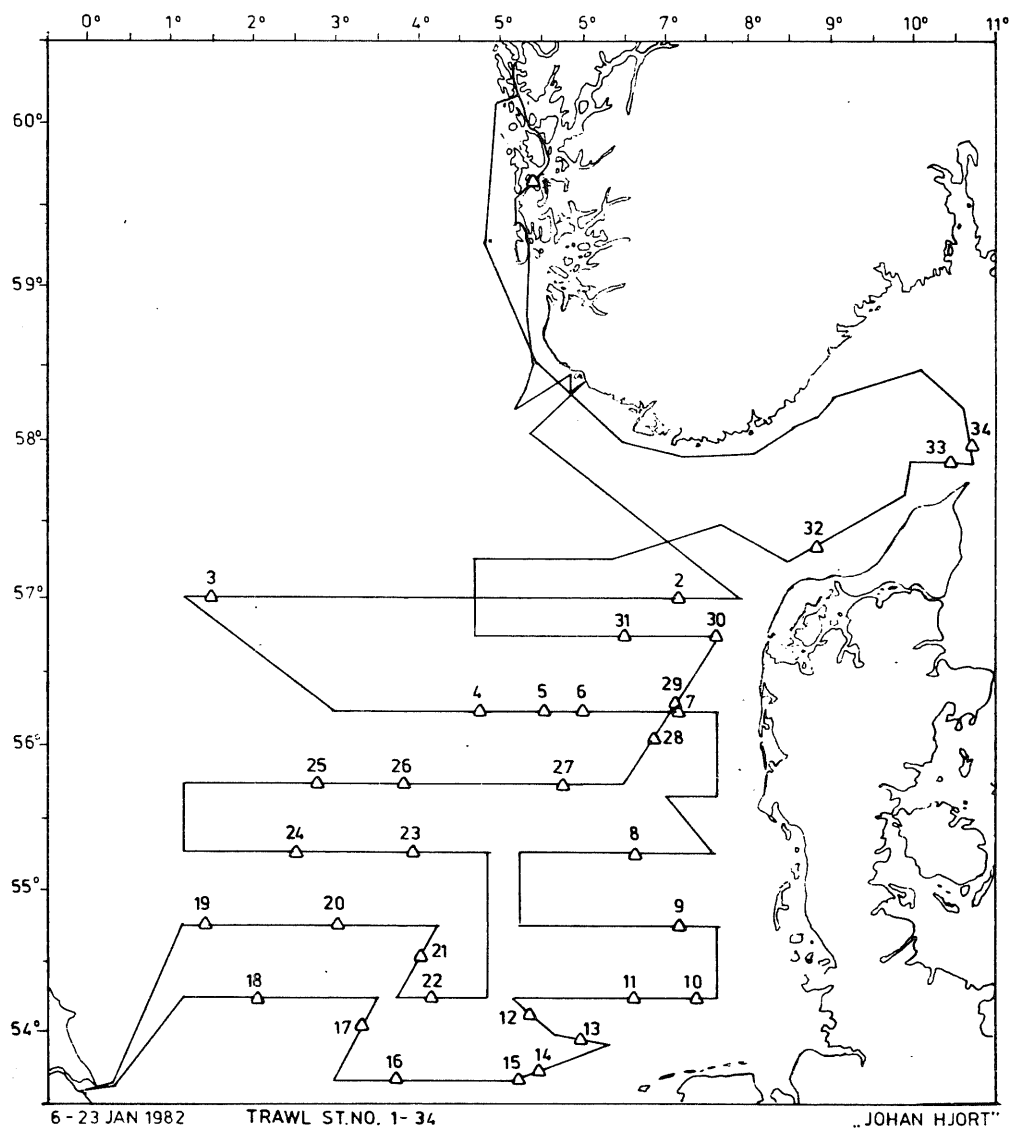
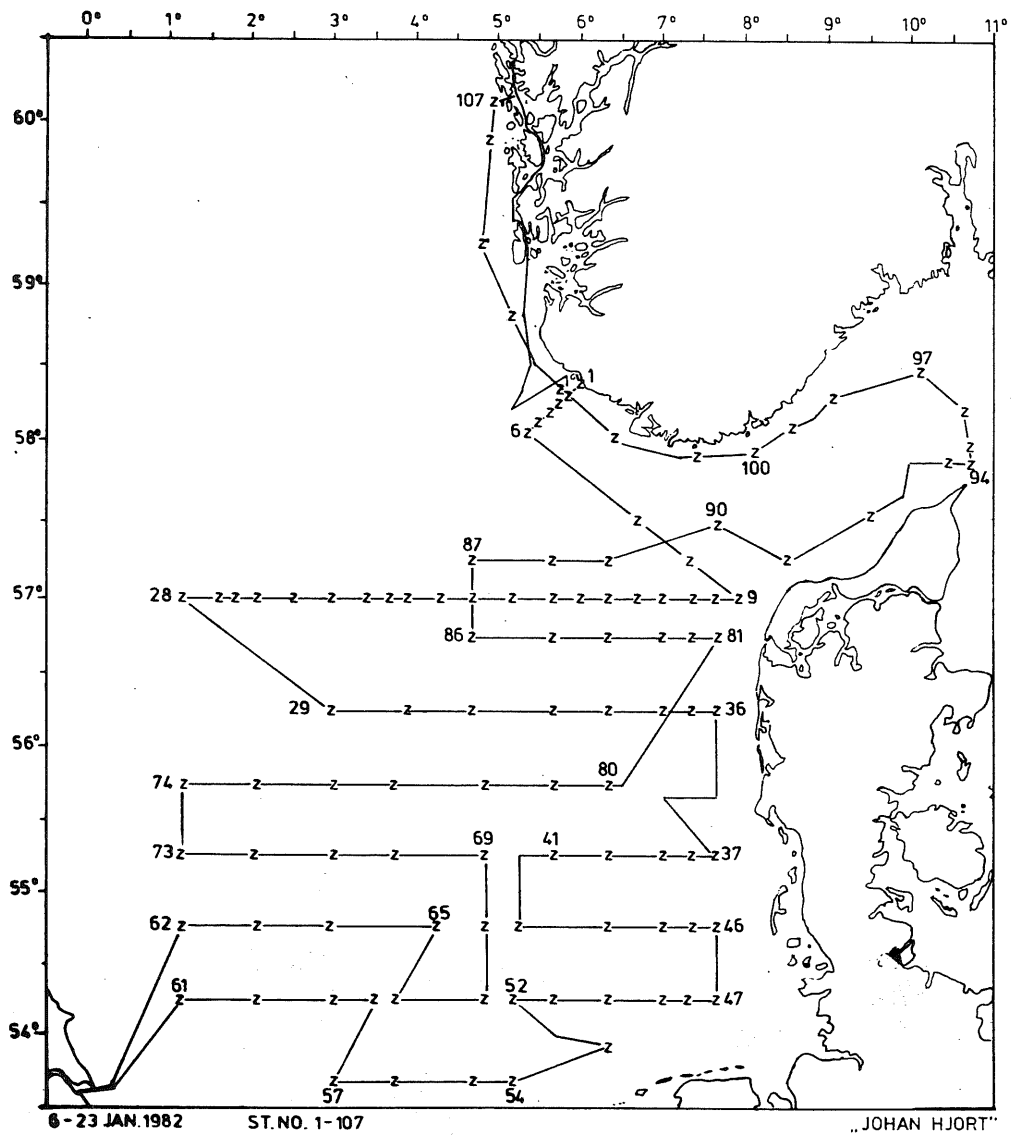
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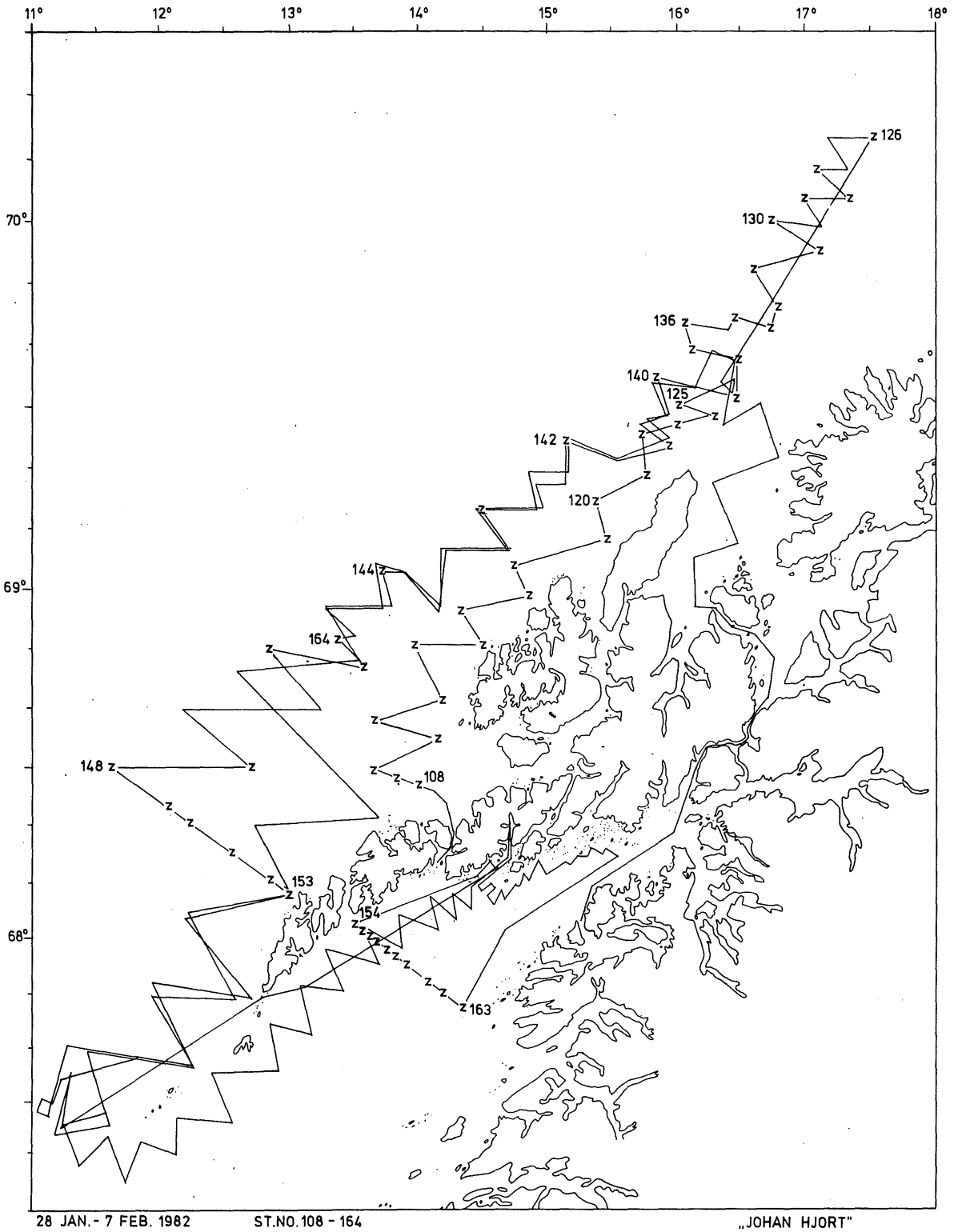
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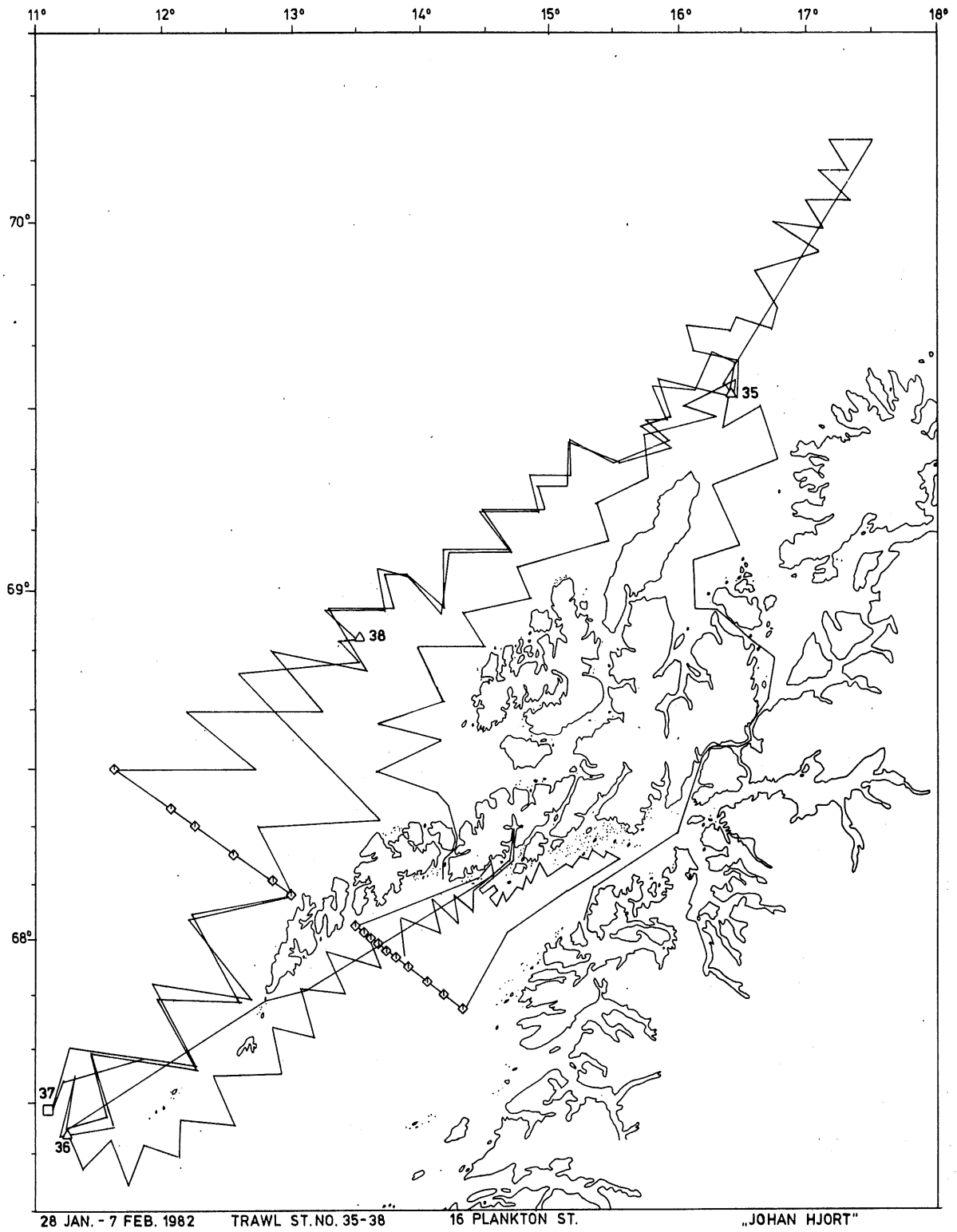
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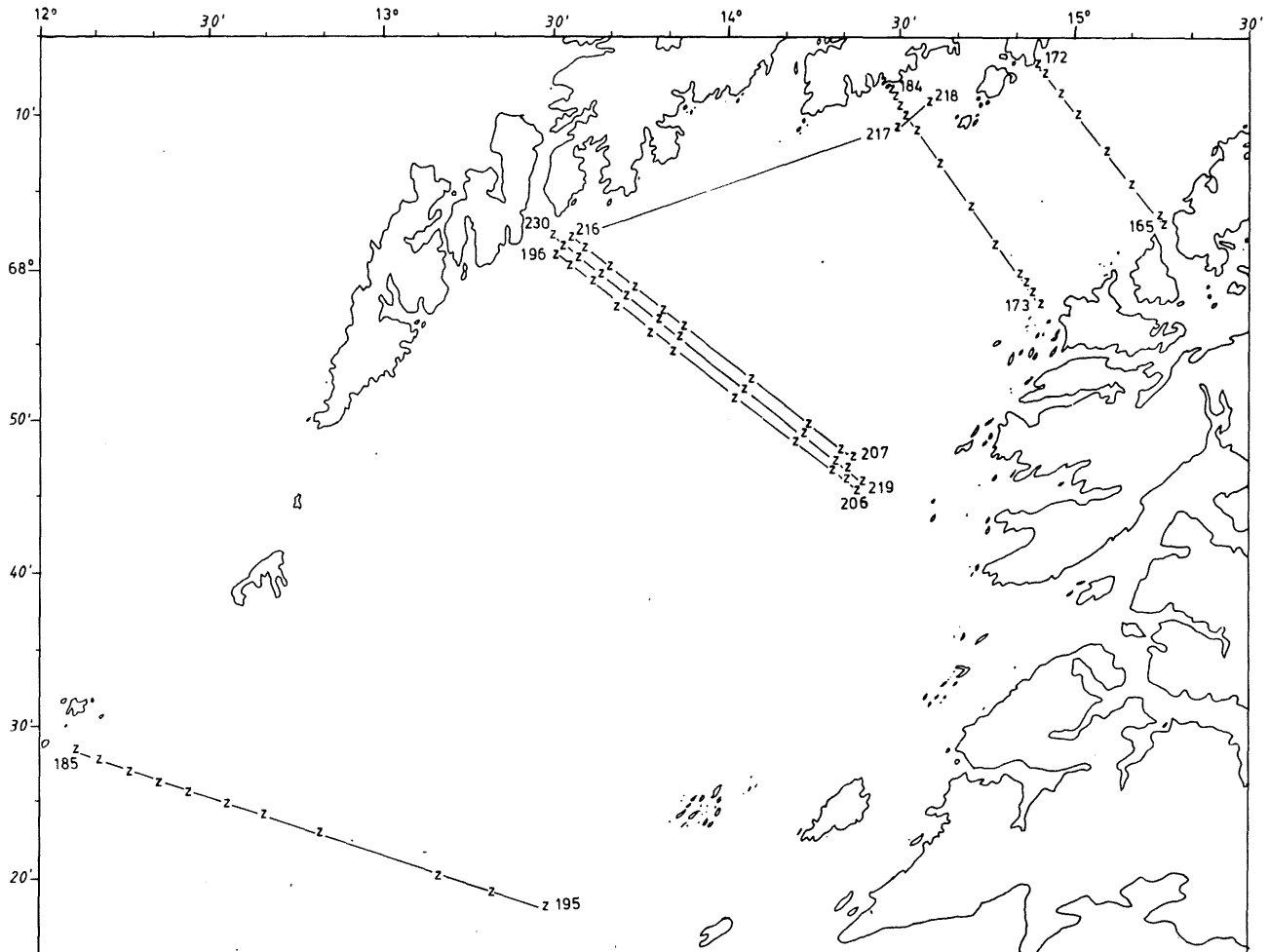
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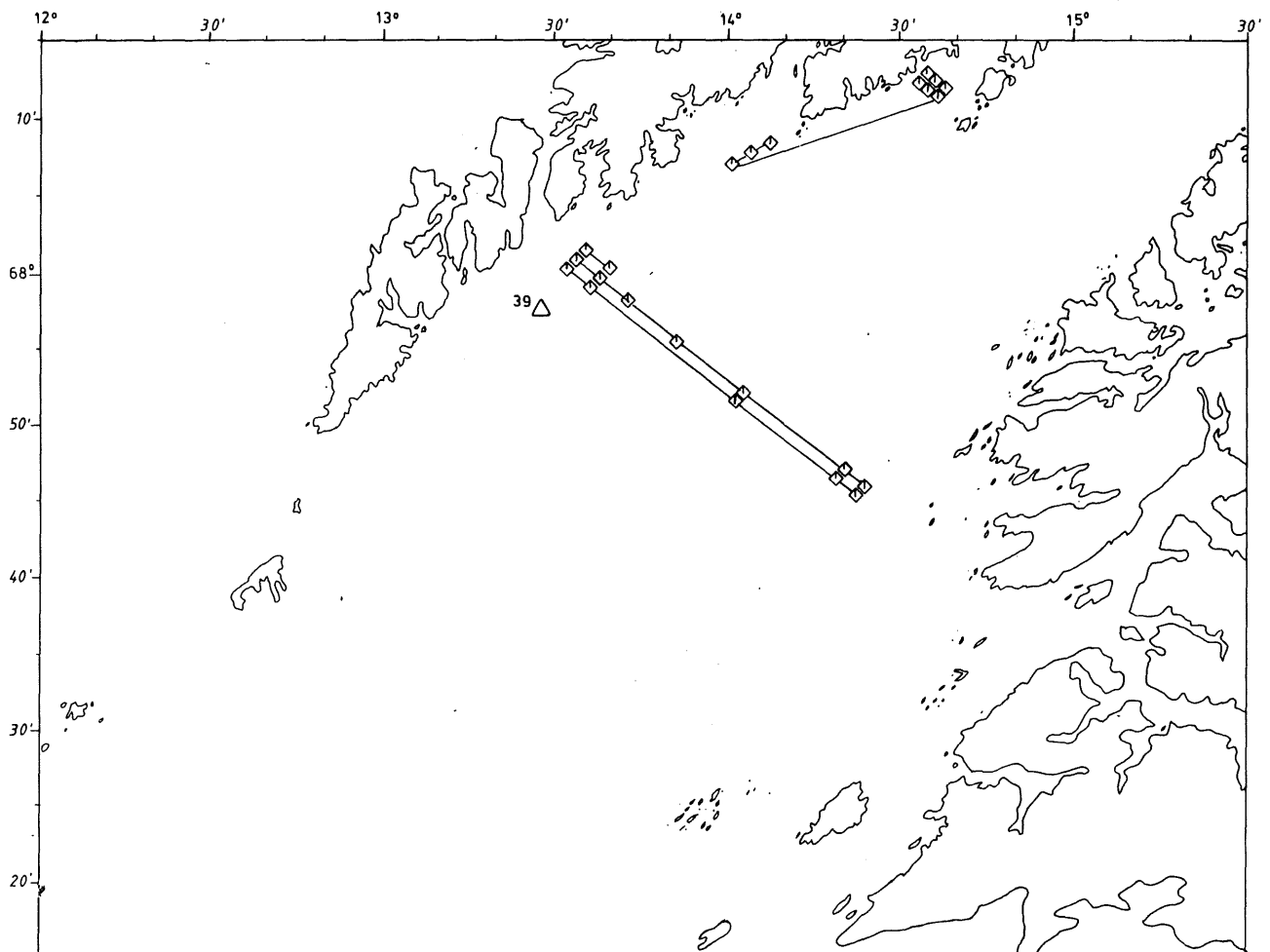






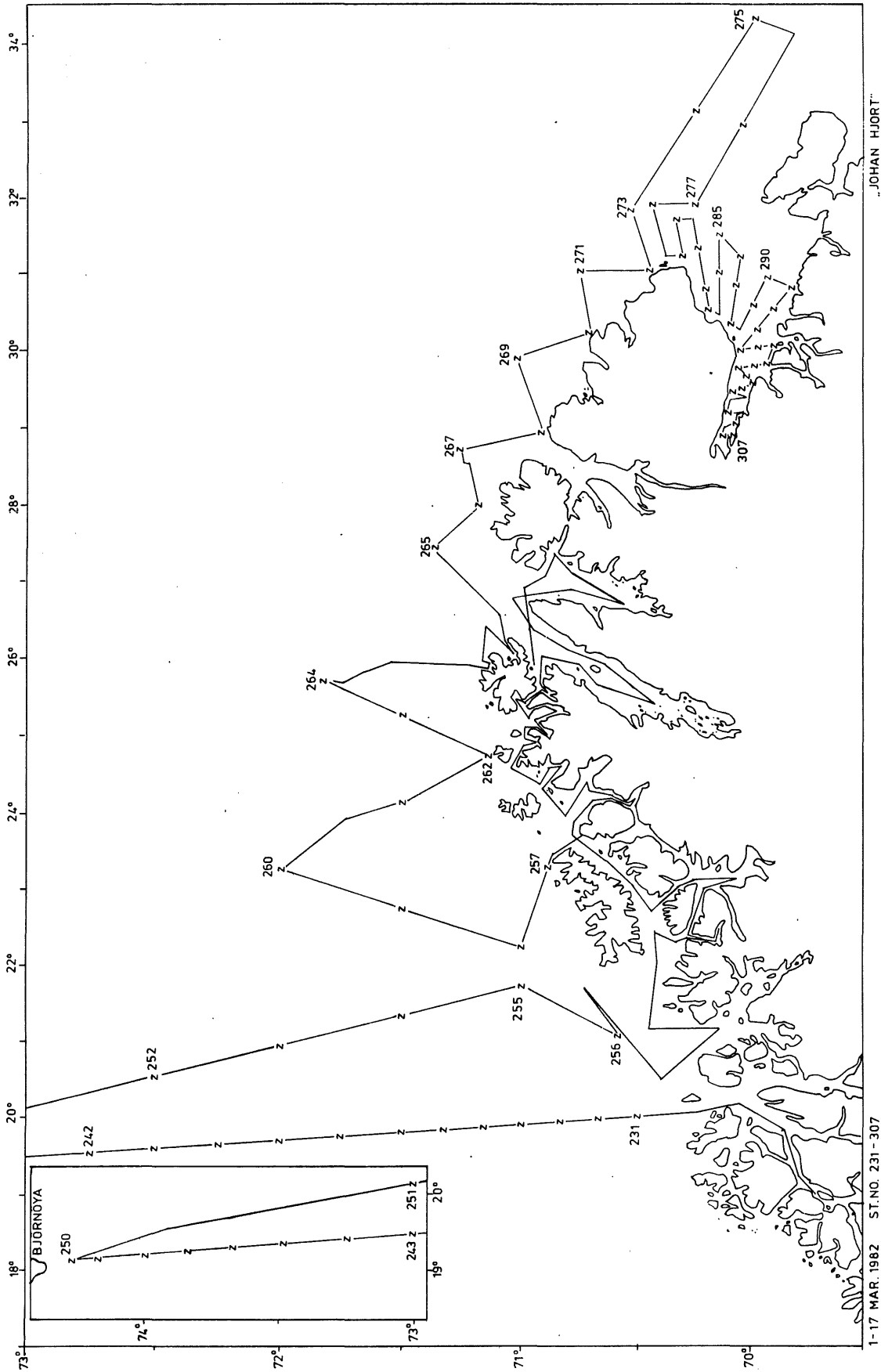
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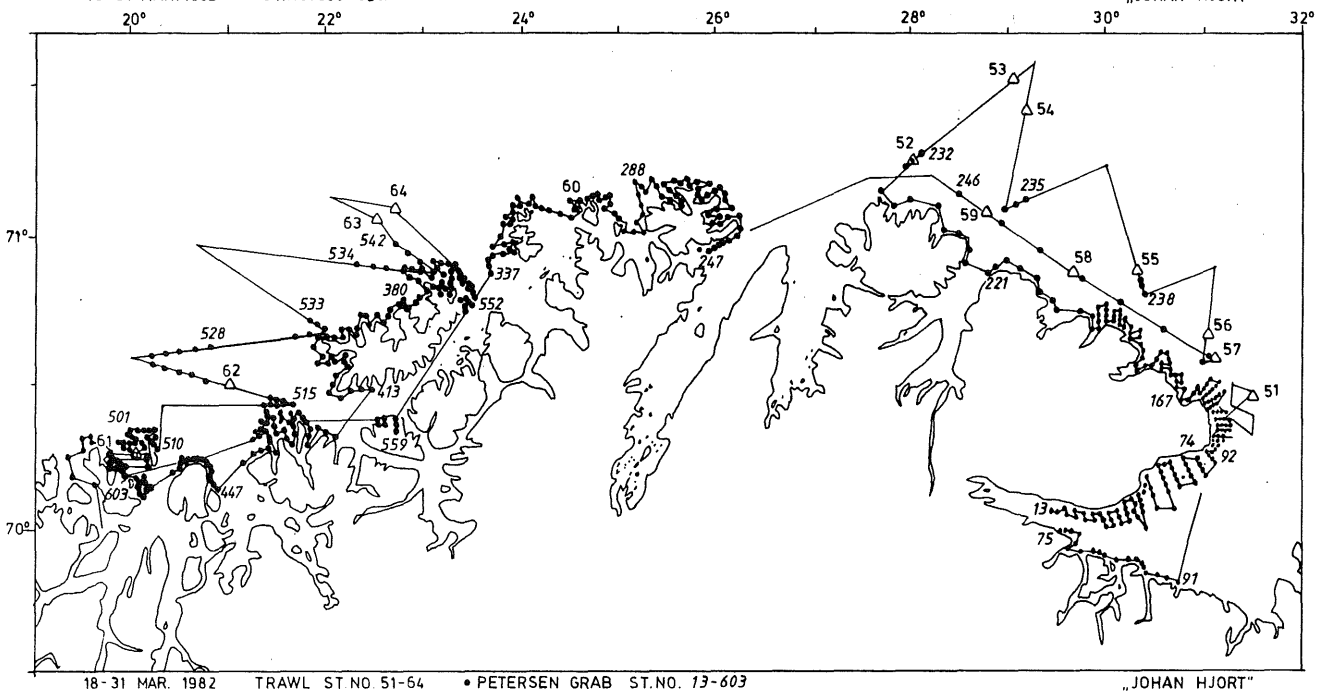
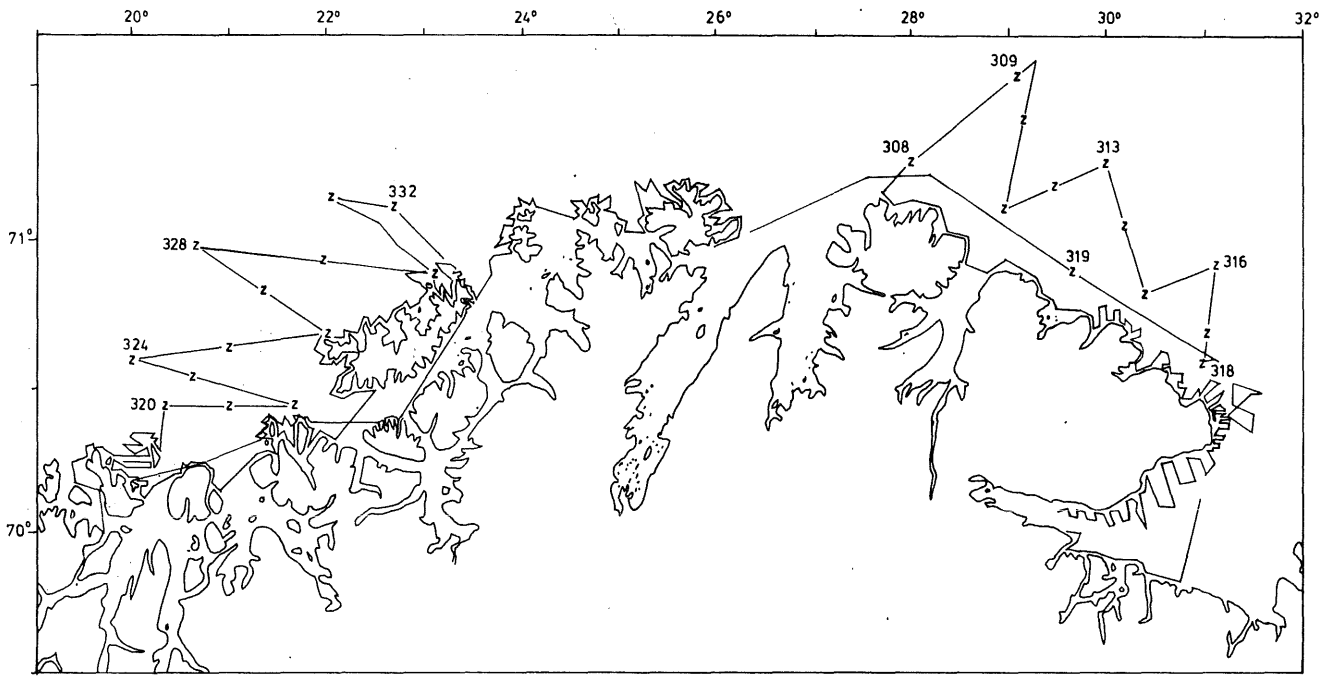
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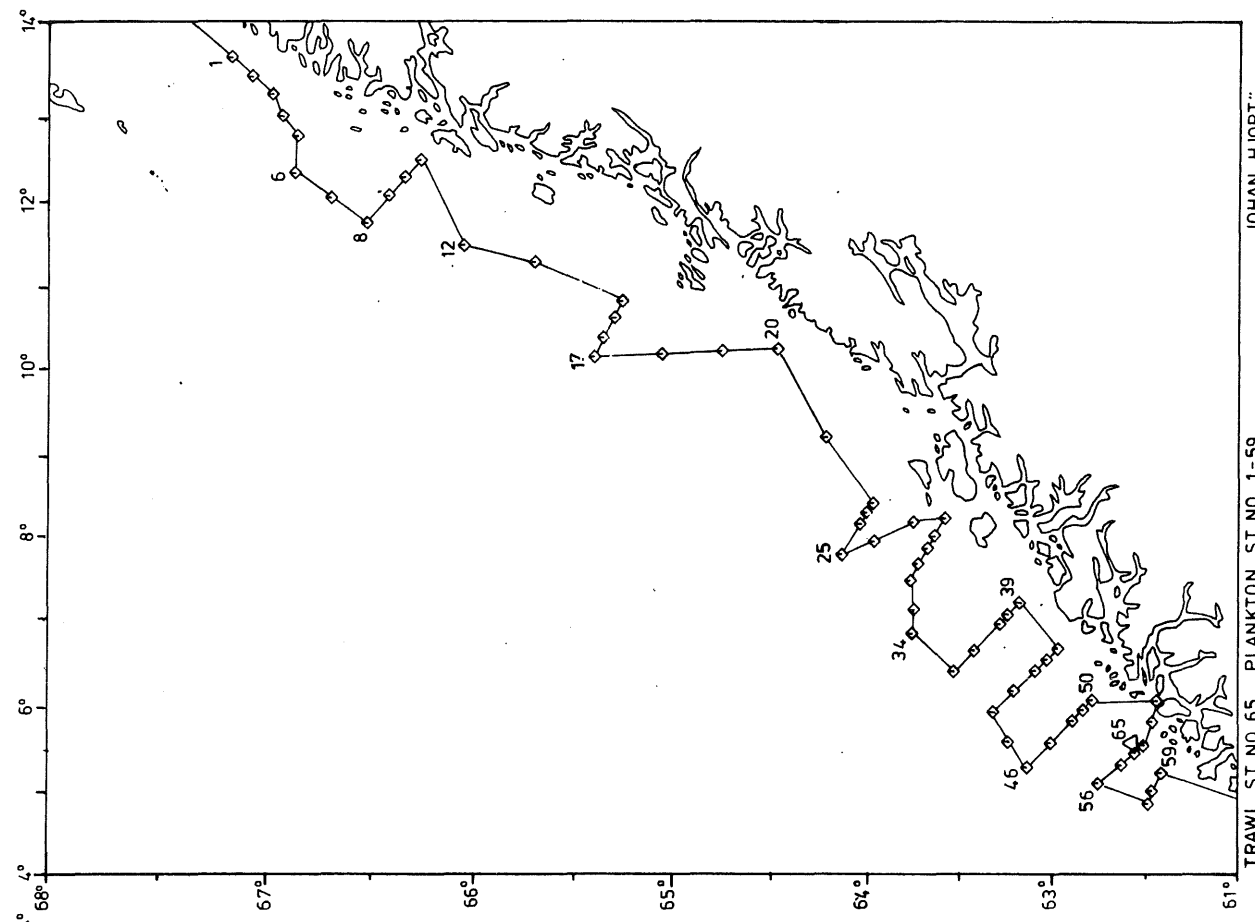


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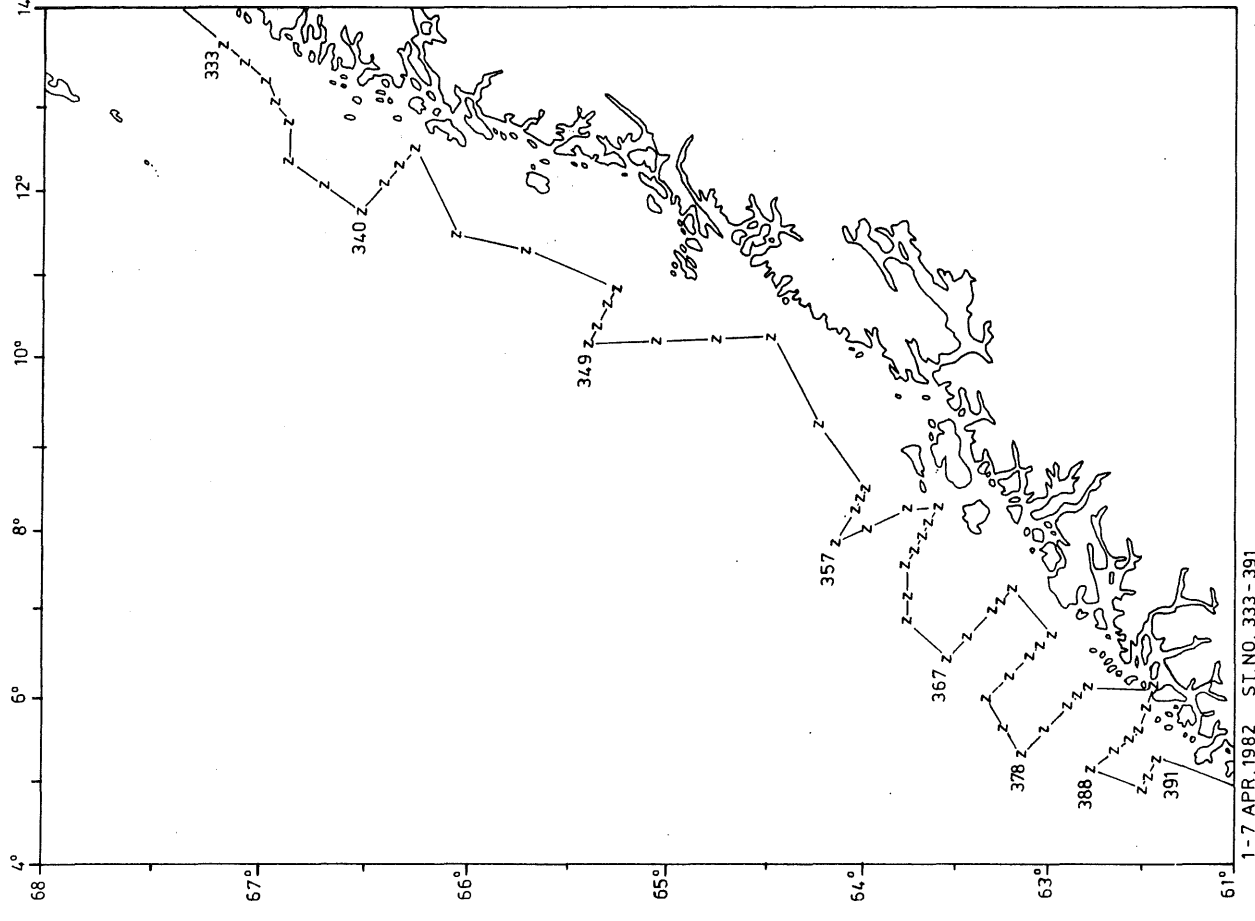
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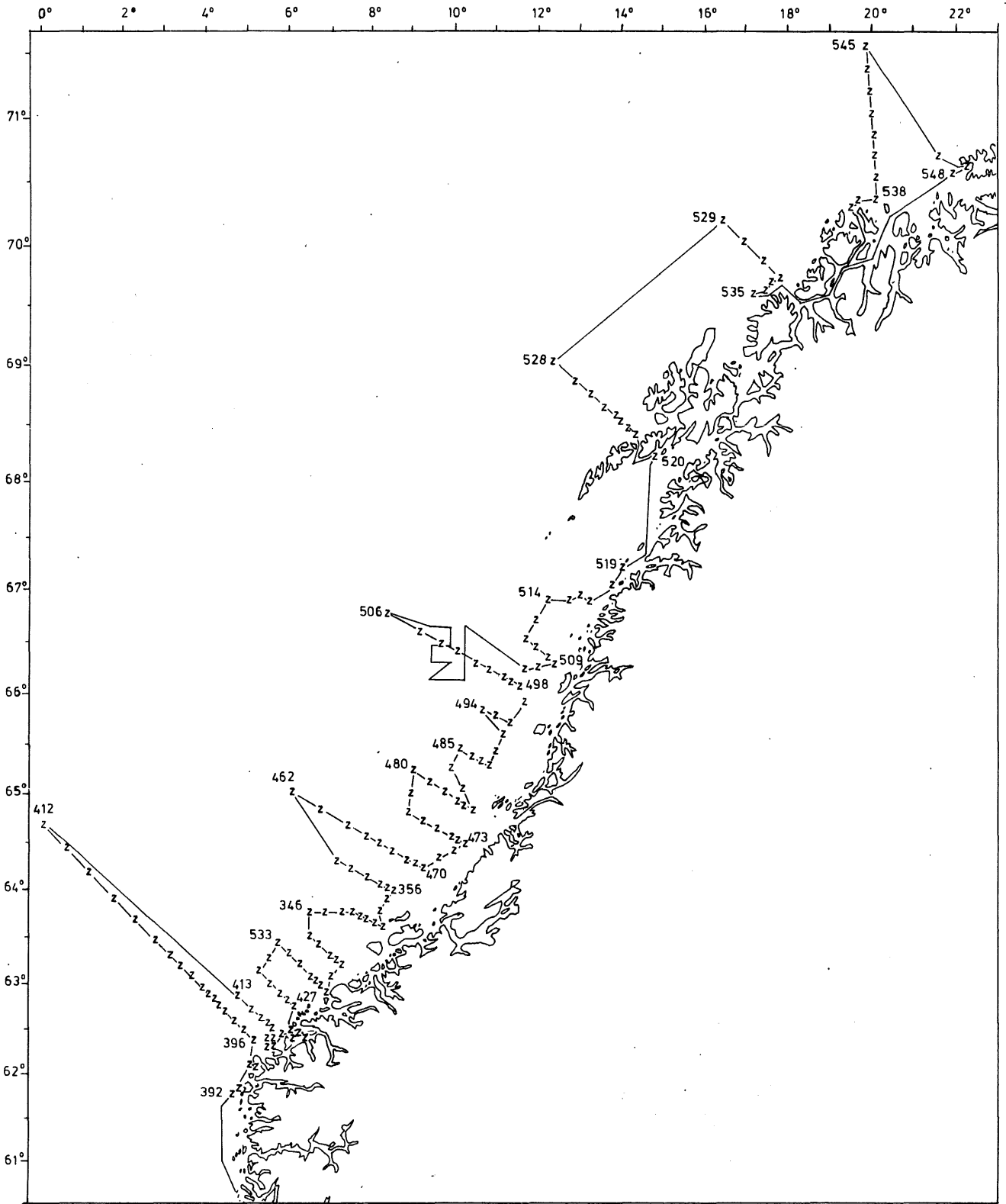


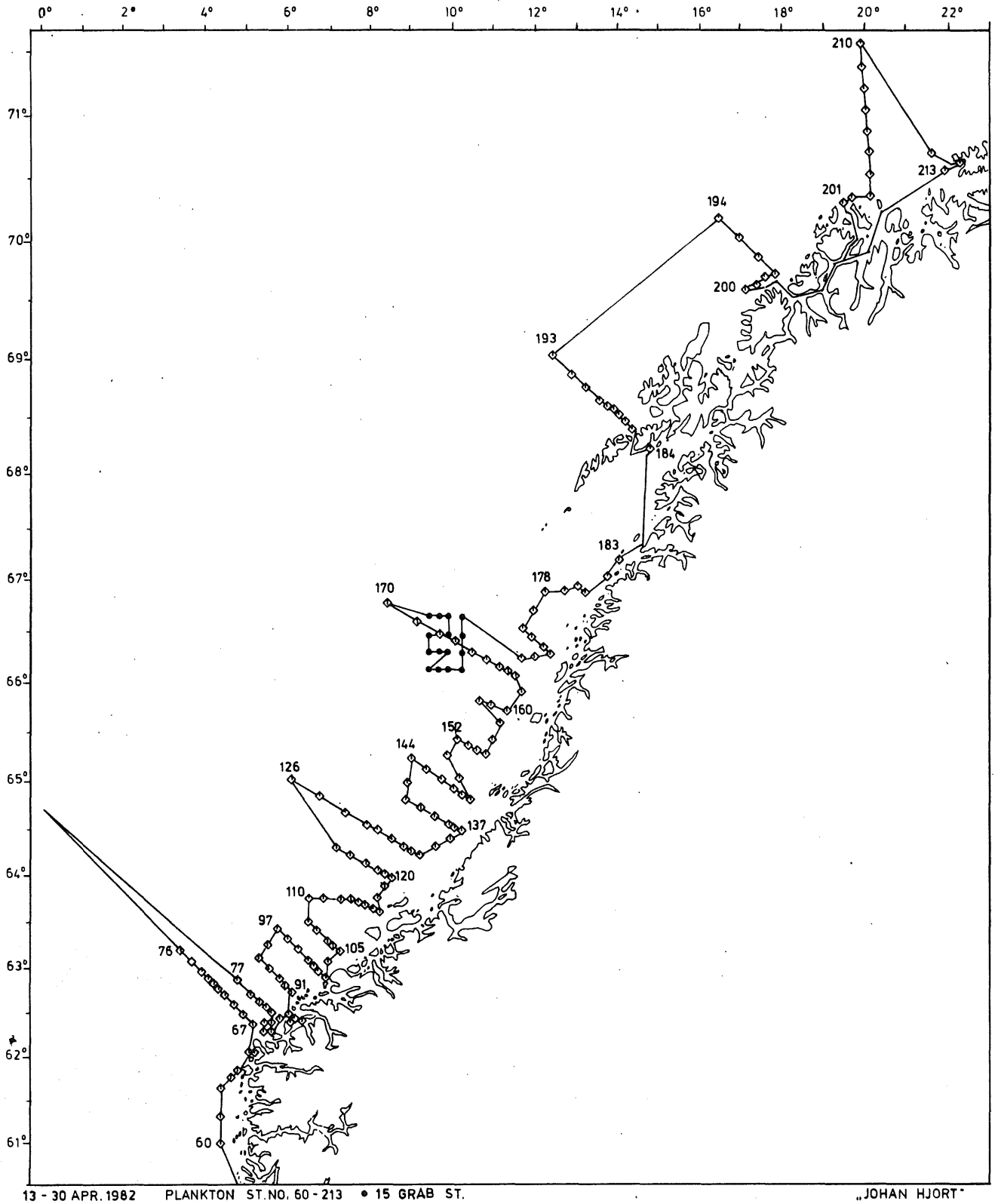


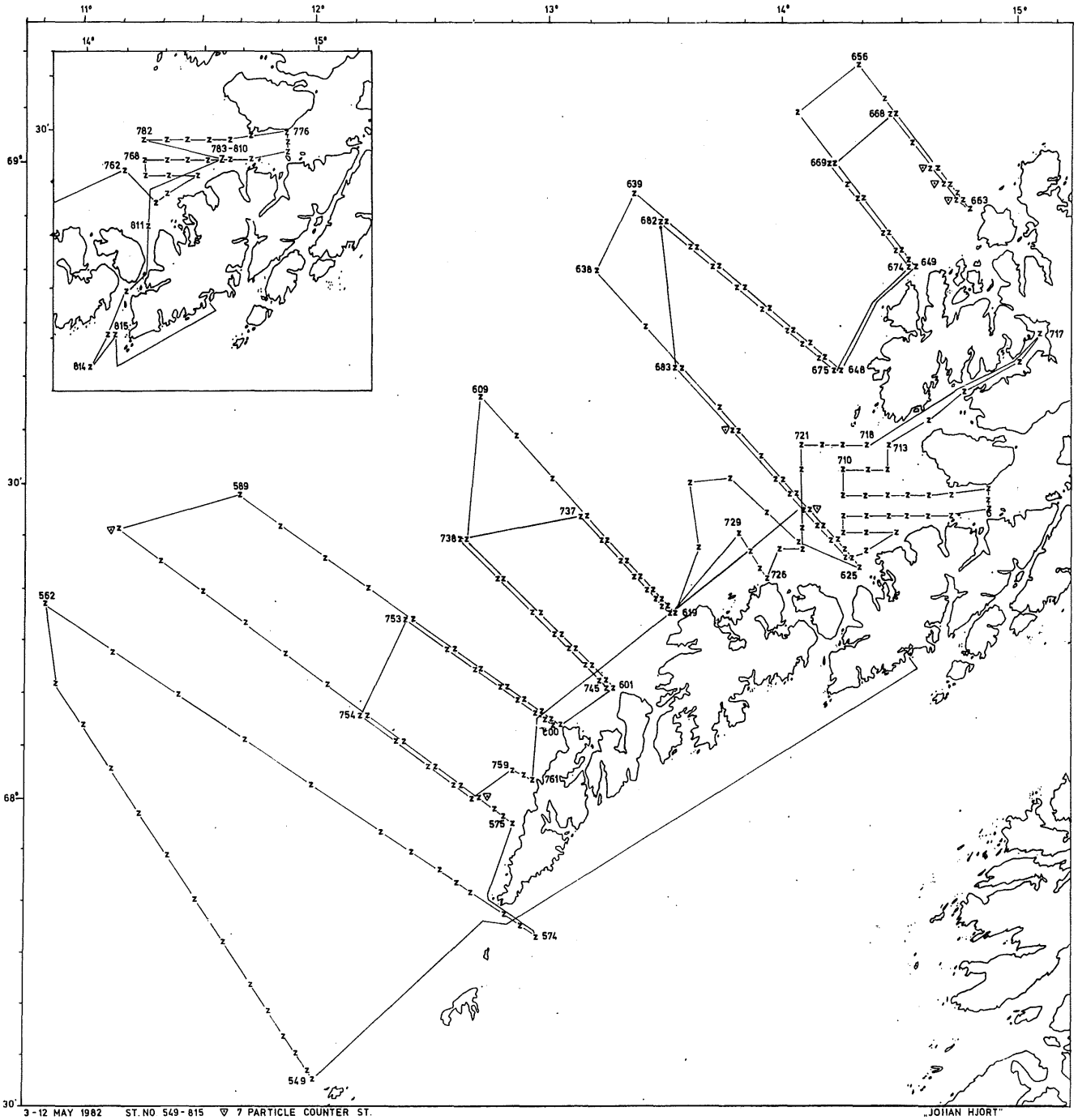
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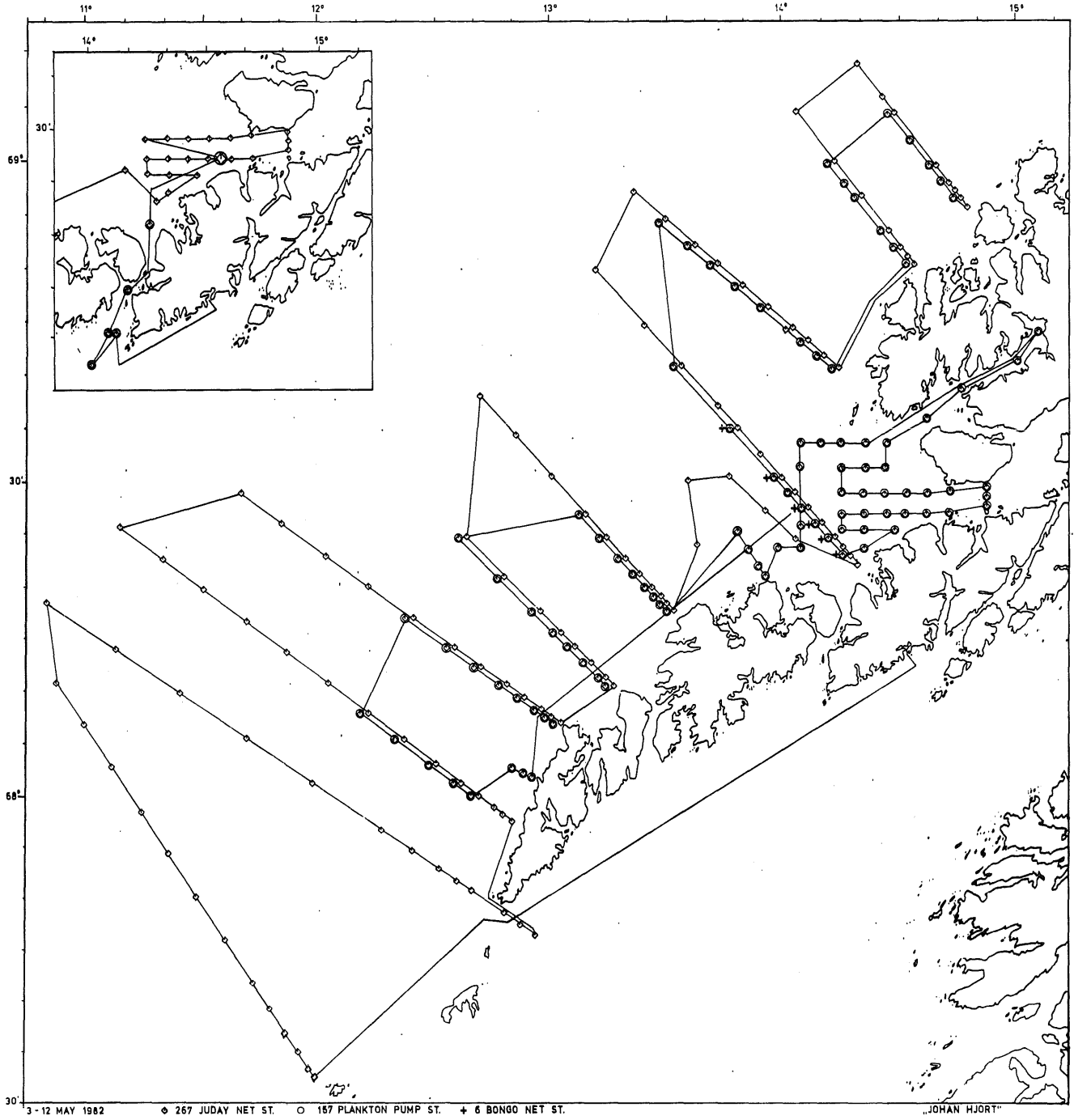
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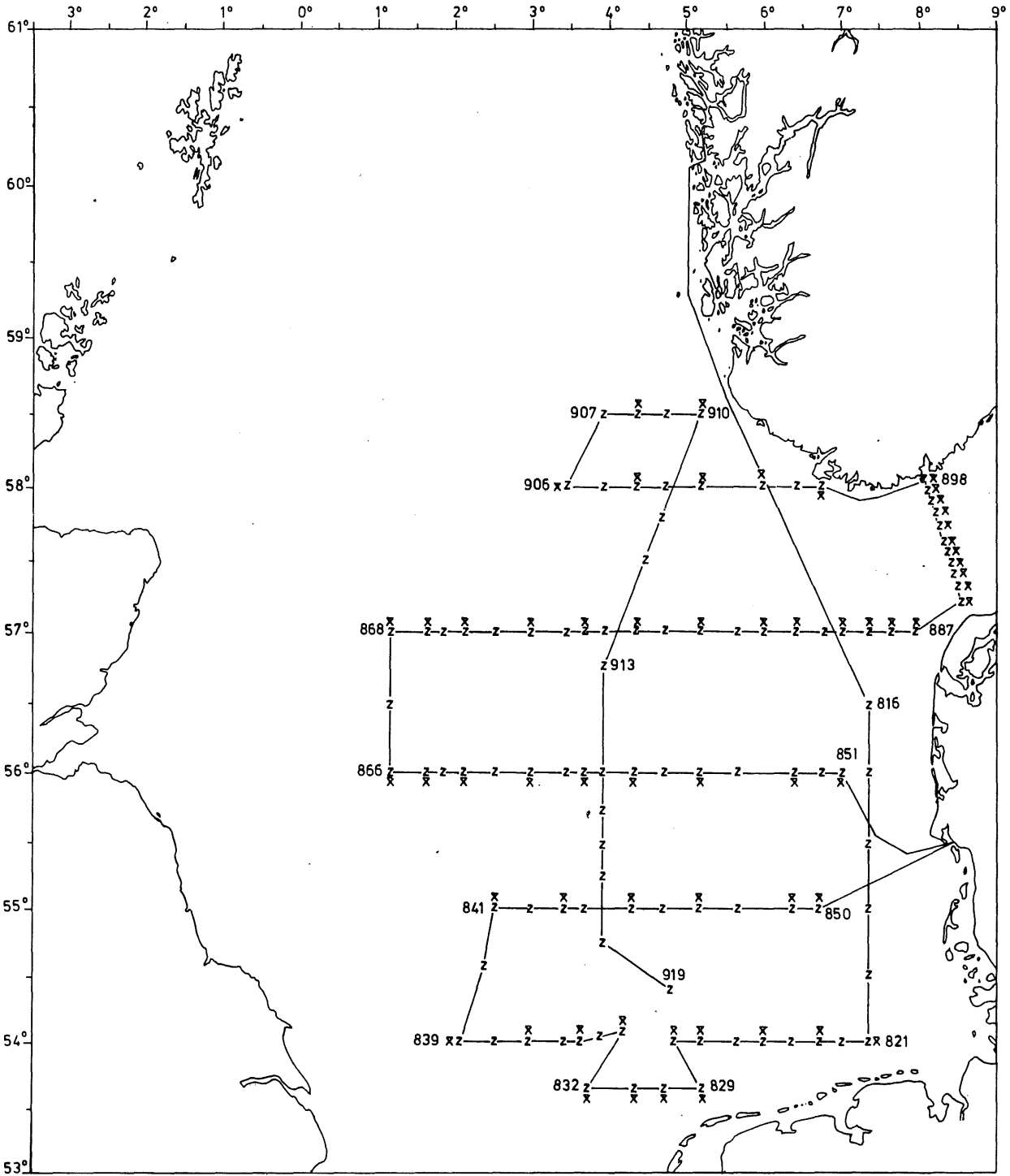






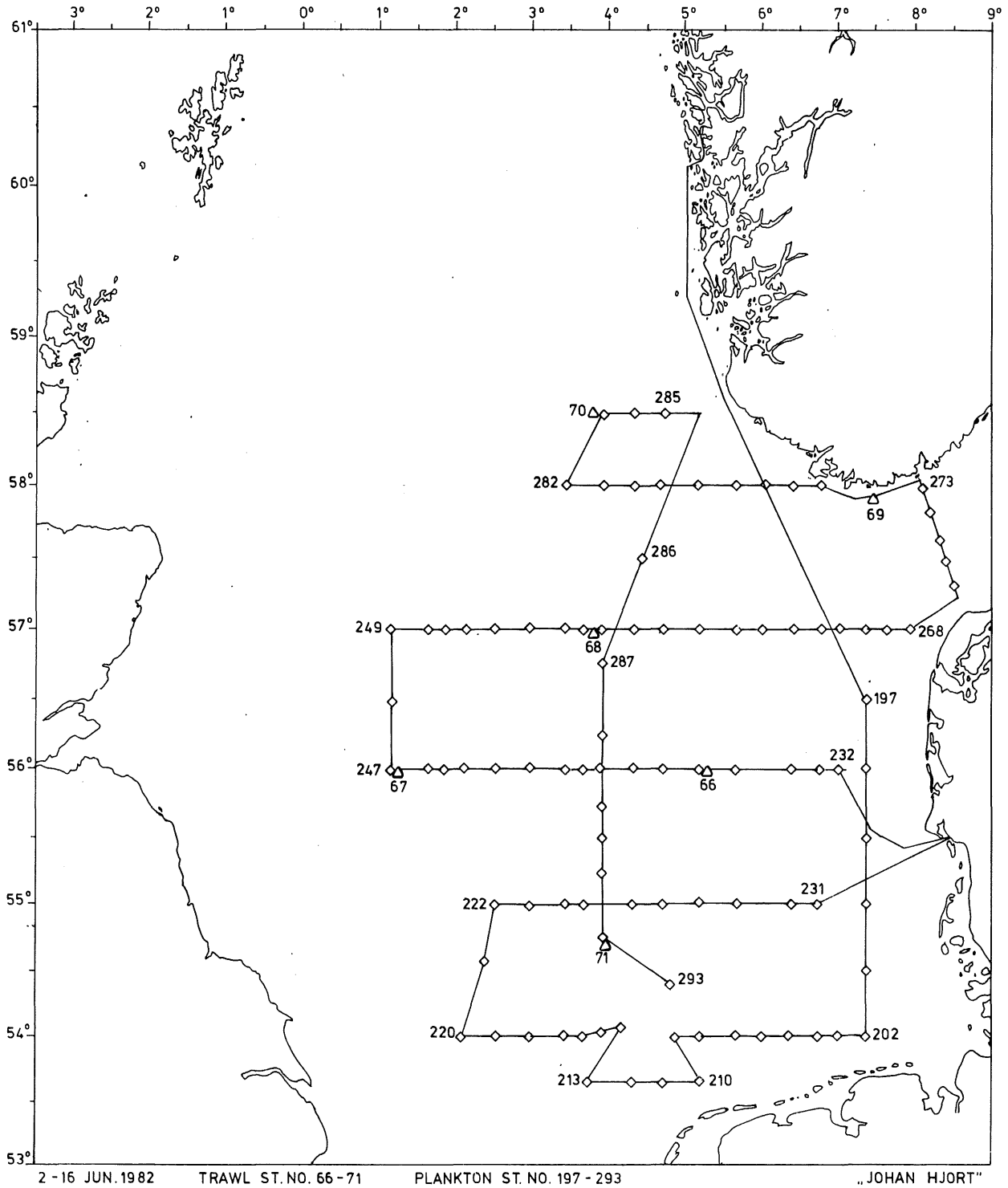






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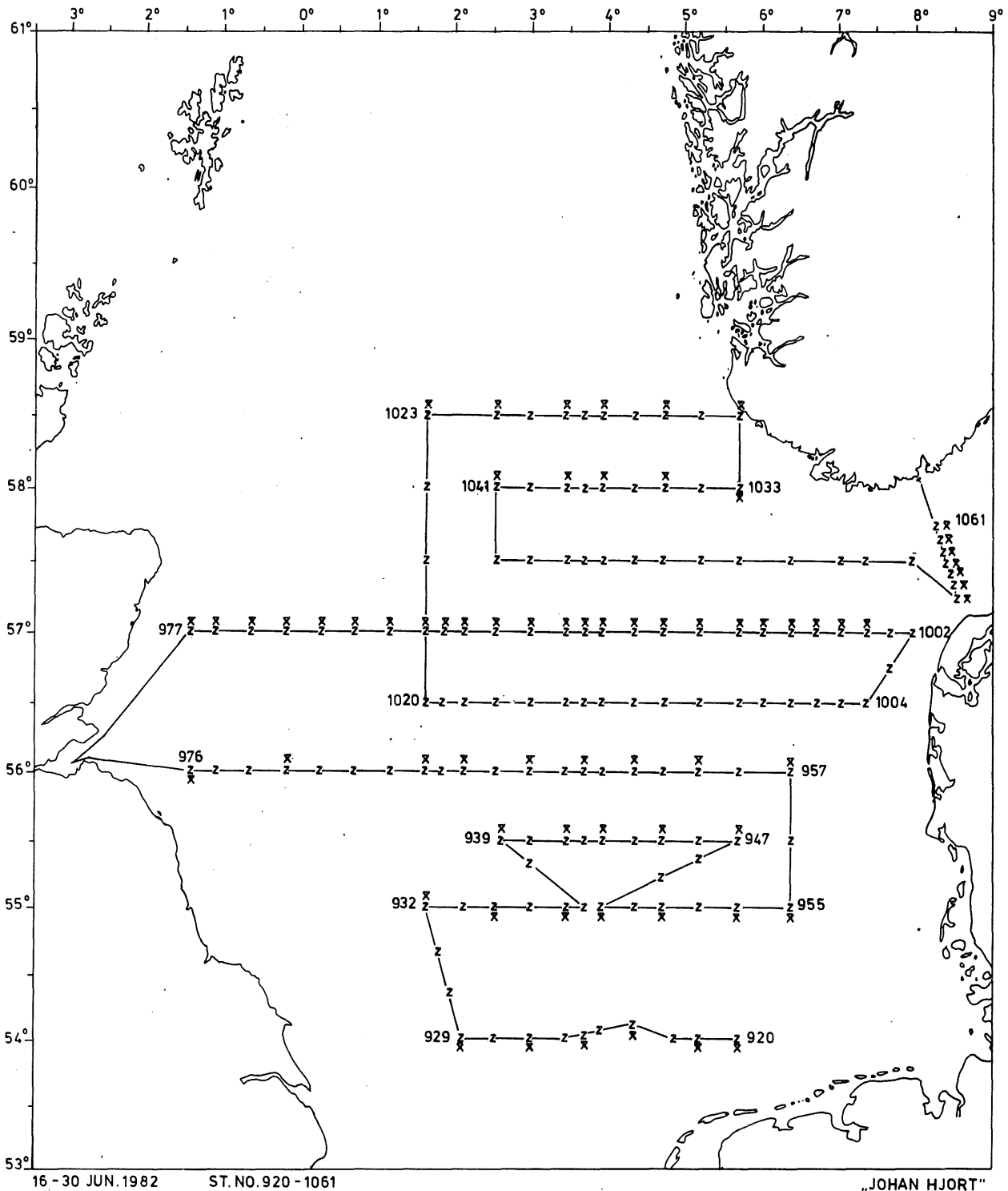


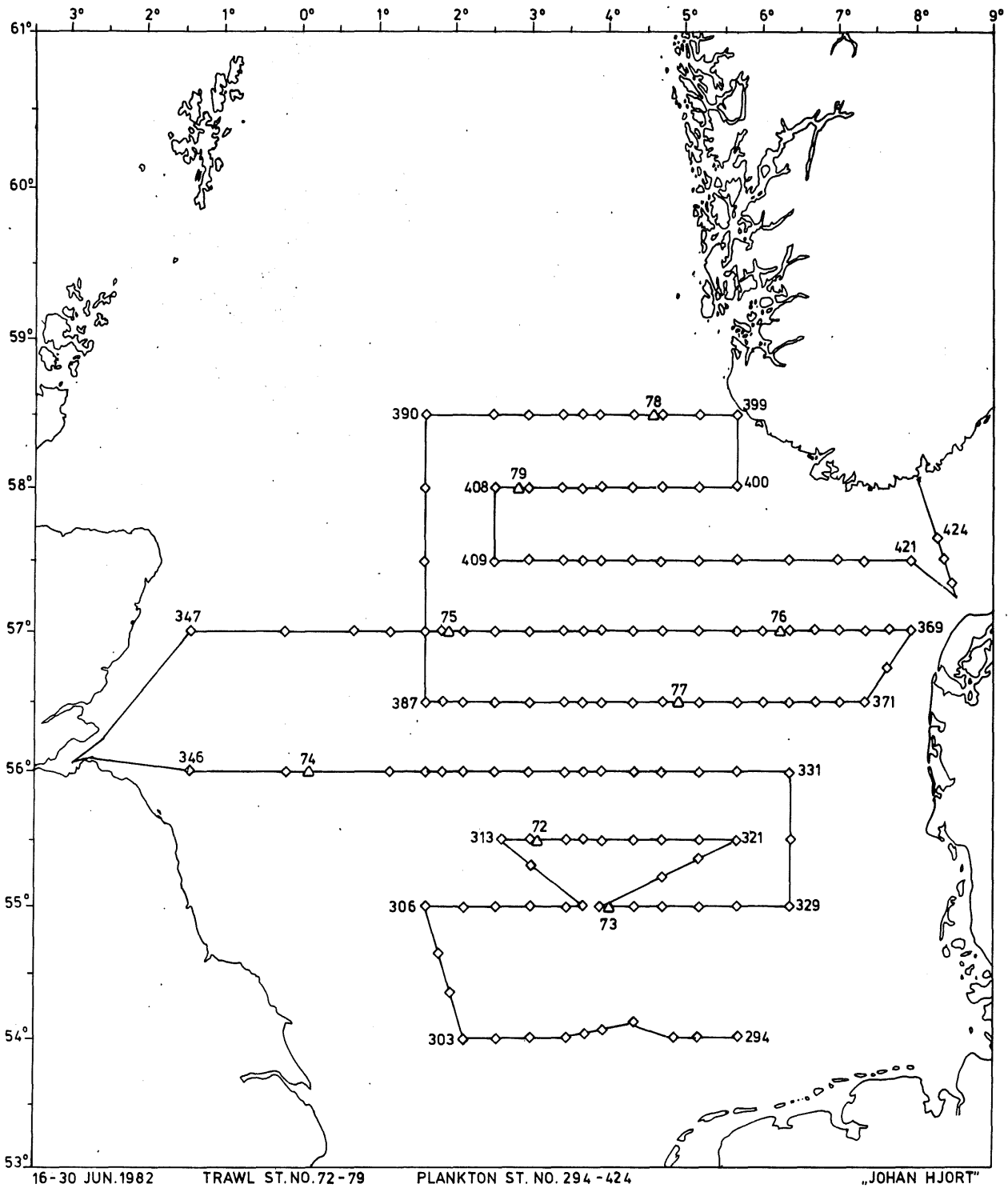
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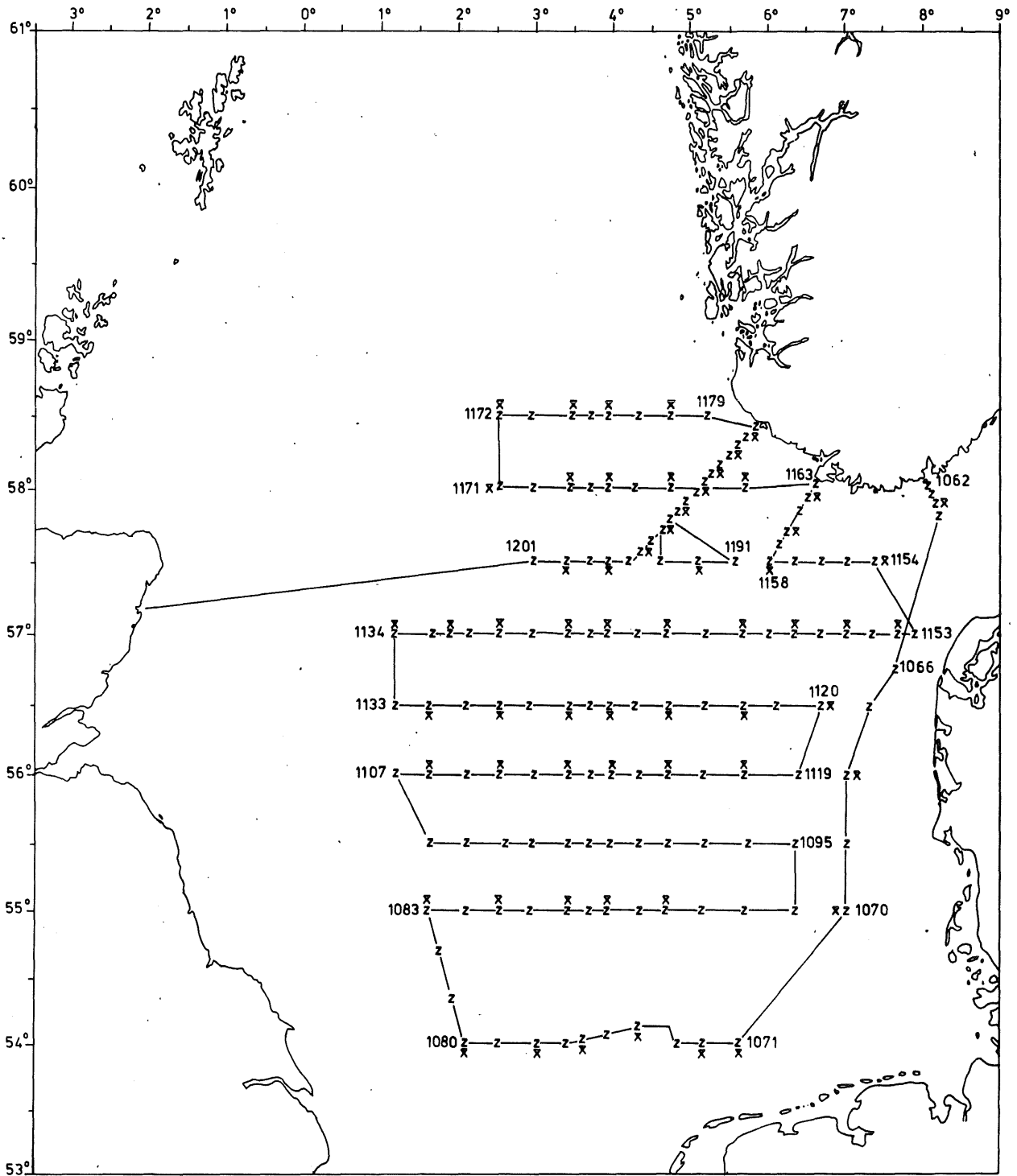
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PLANKTON ST. NO. 197-293

„JOHAN HJORT“

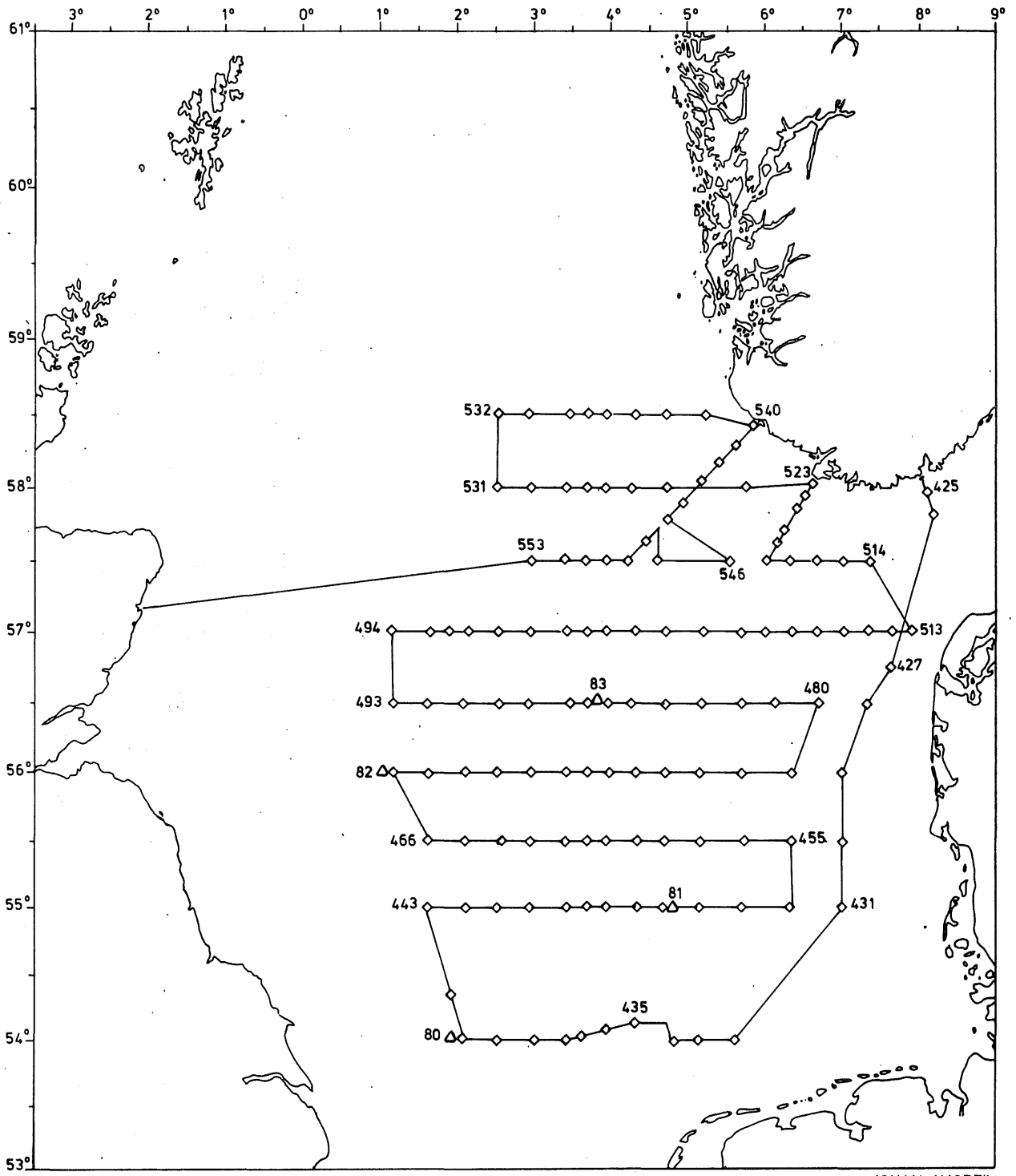






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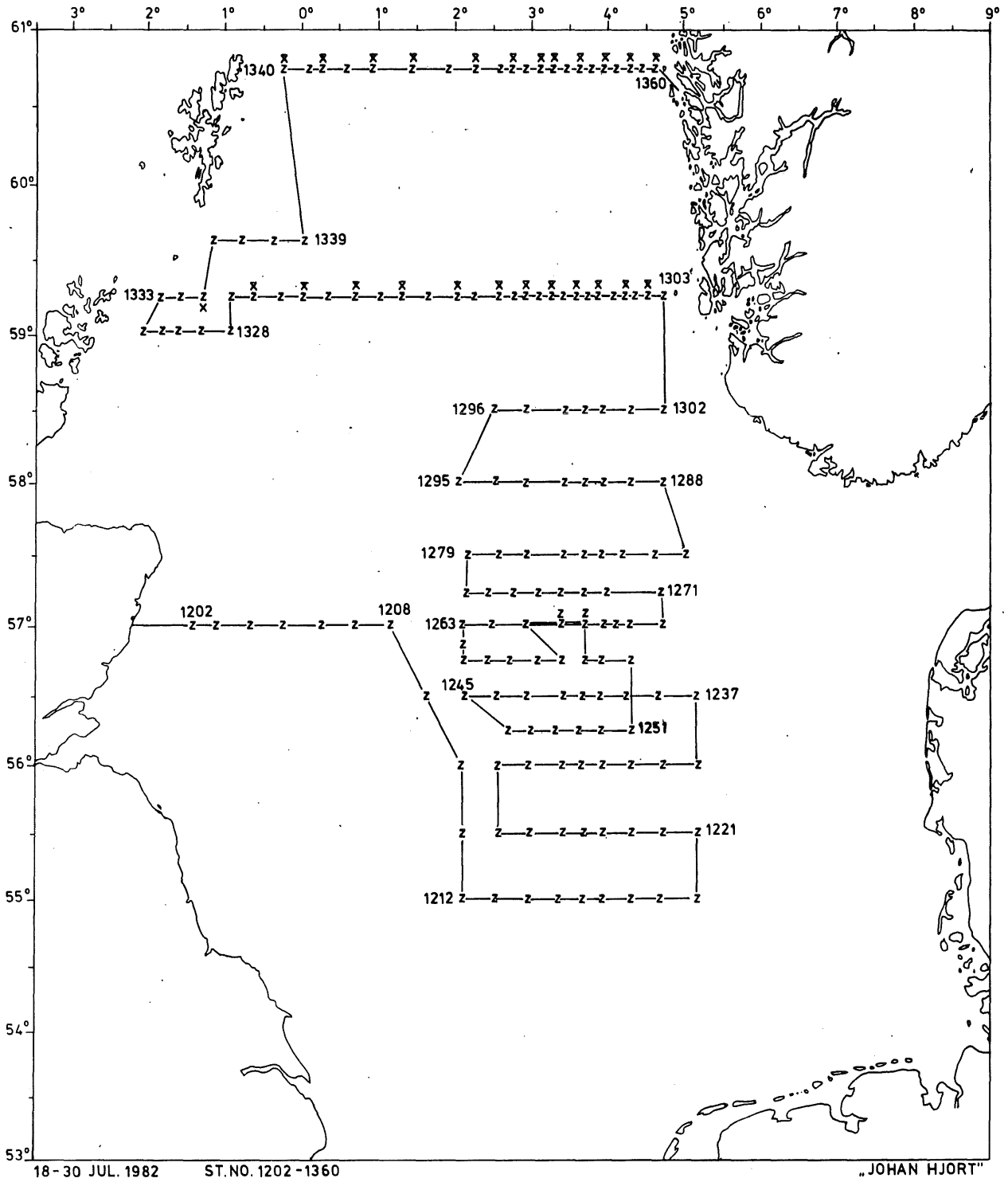


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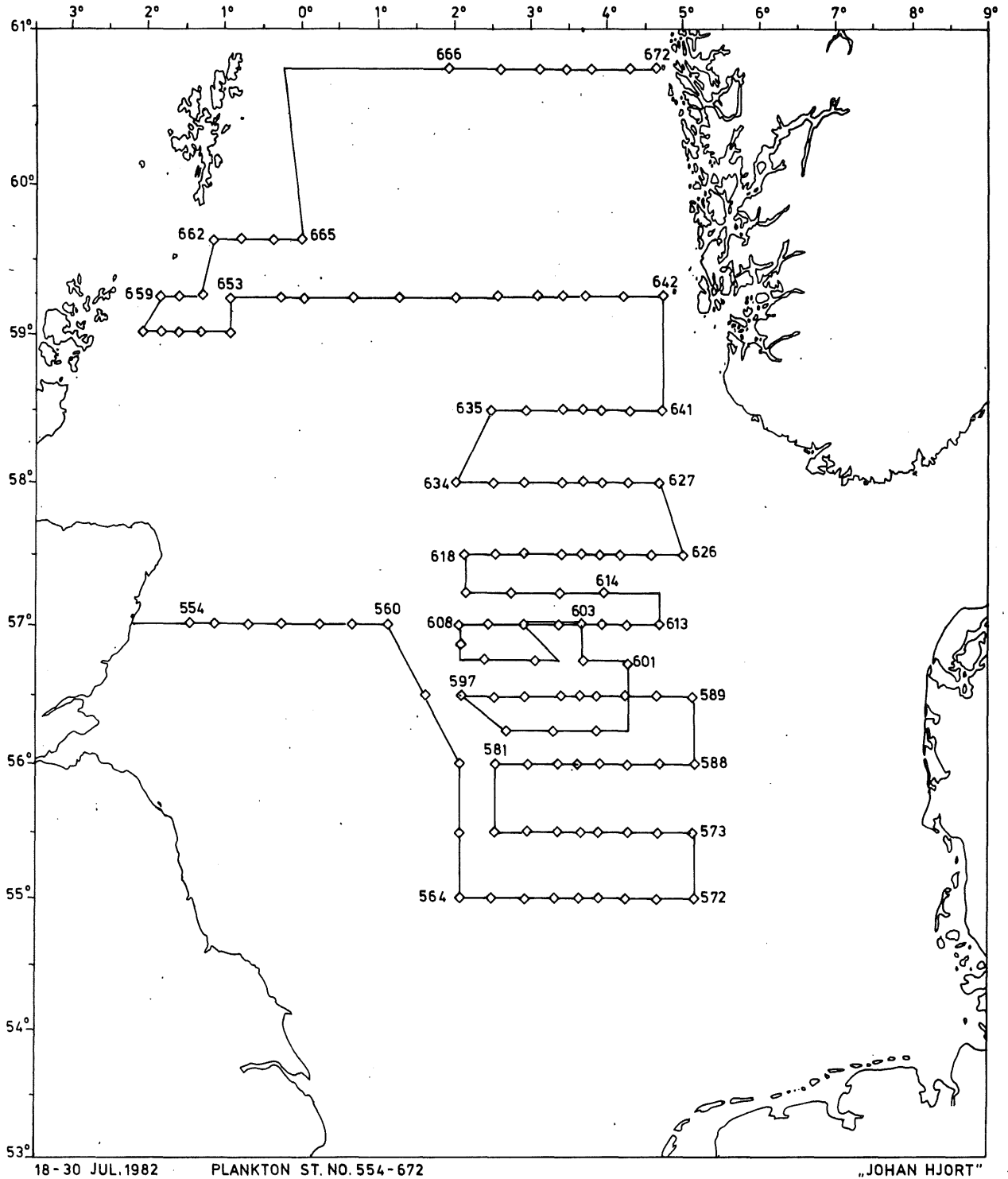
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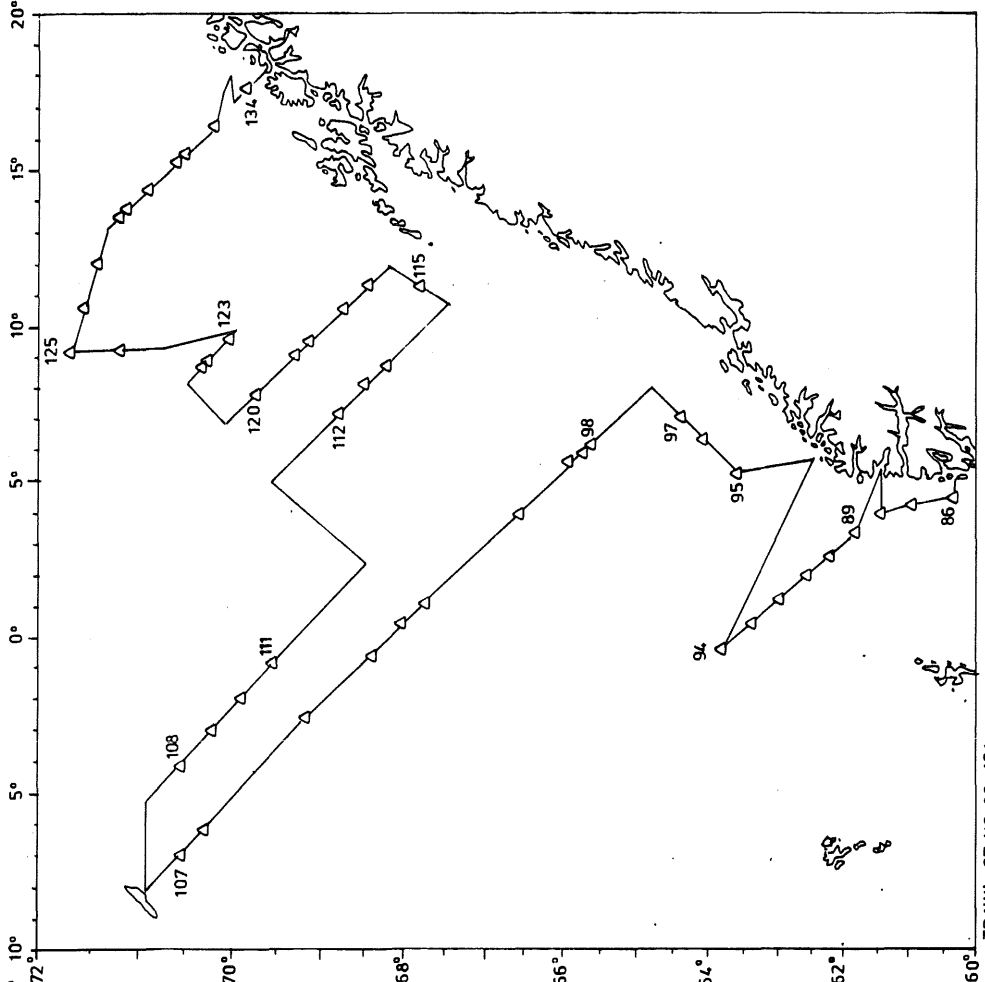
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„JOHAN WJORT“



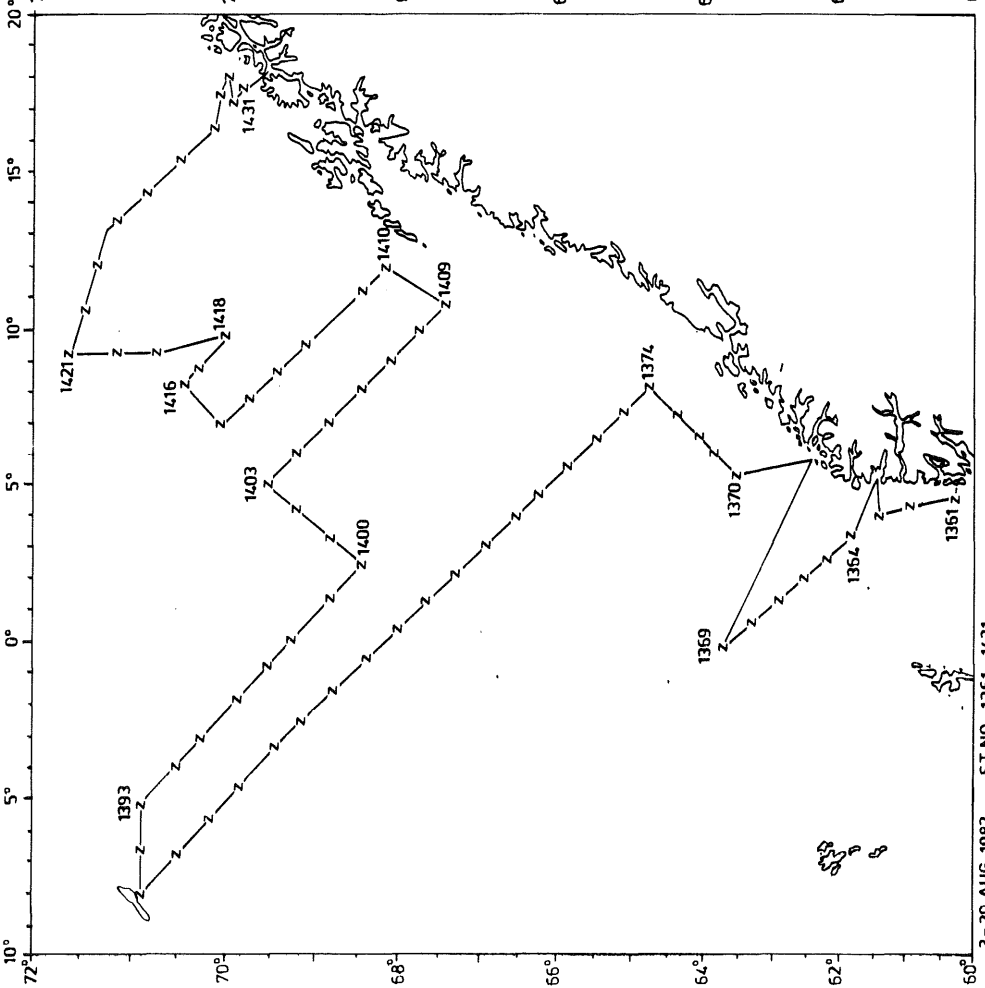




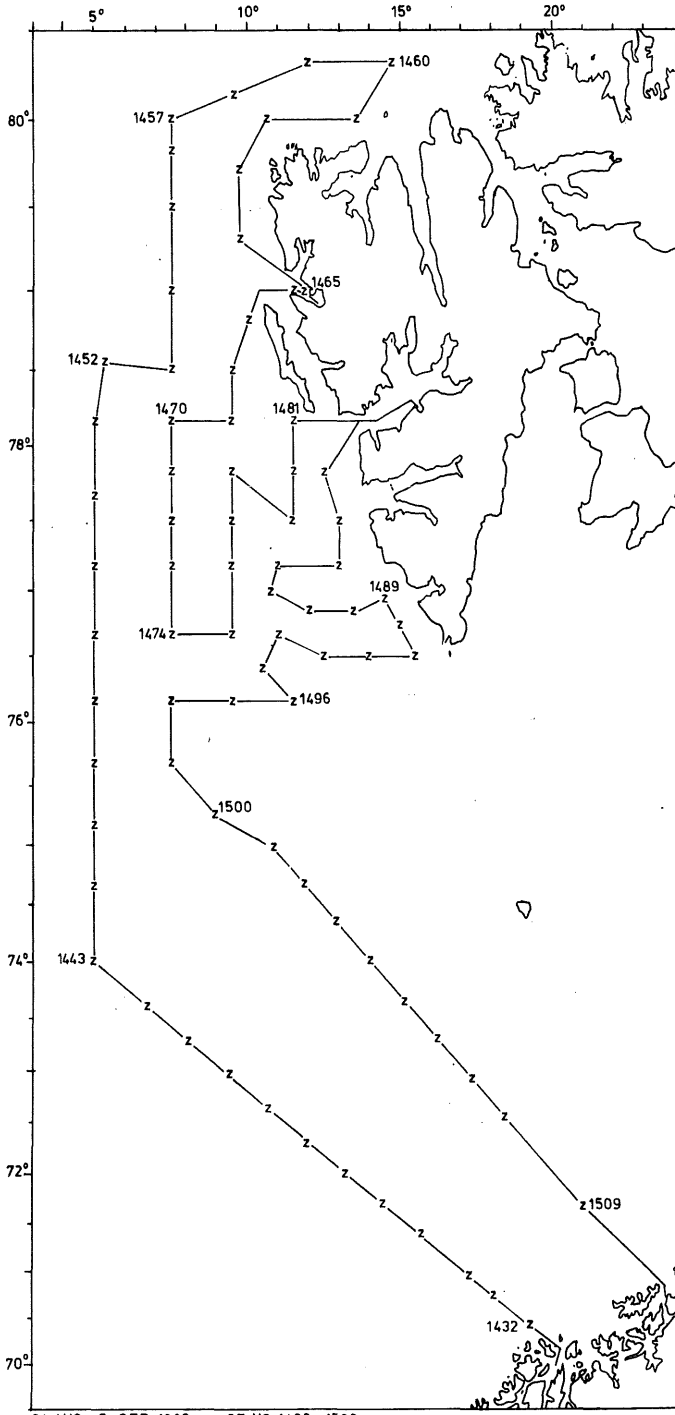


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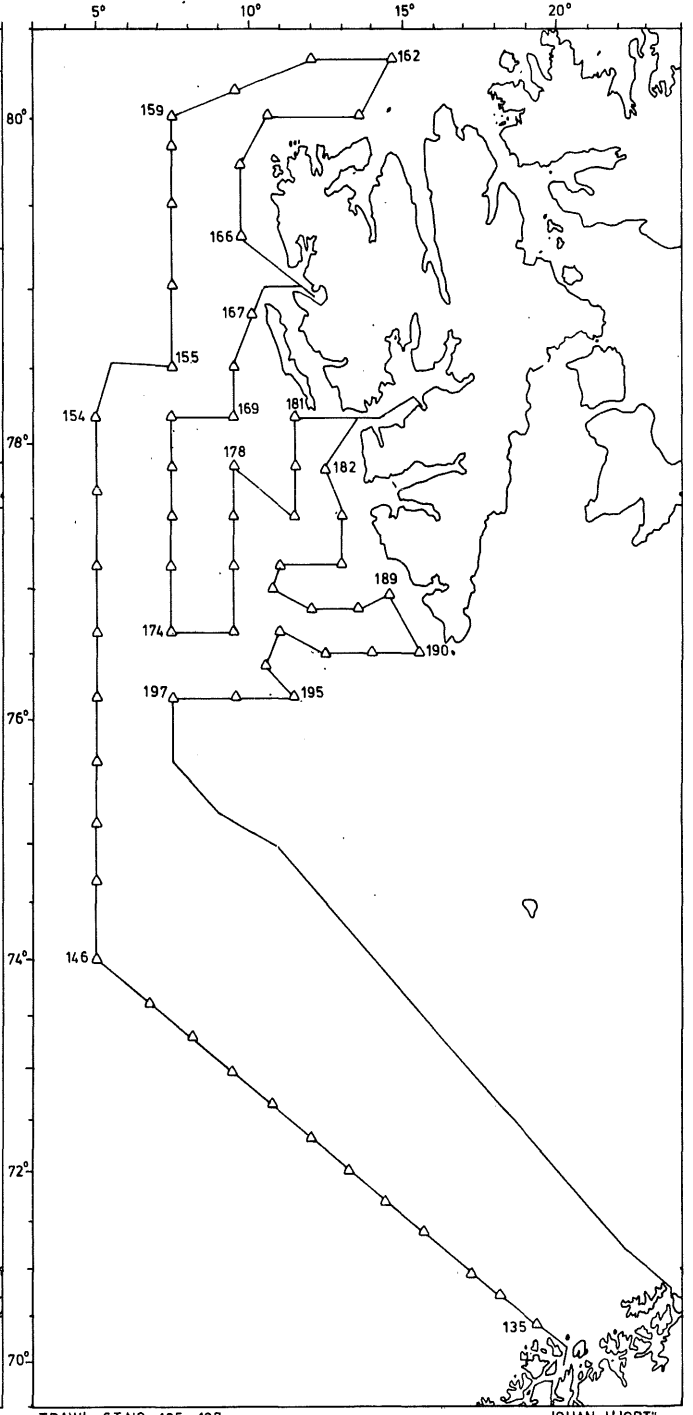
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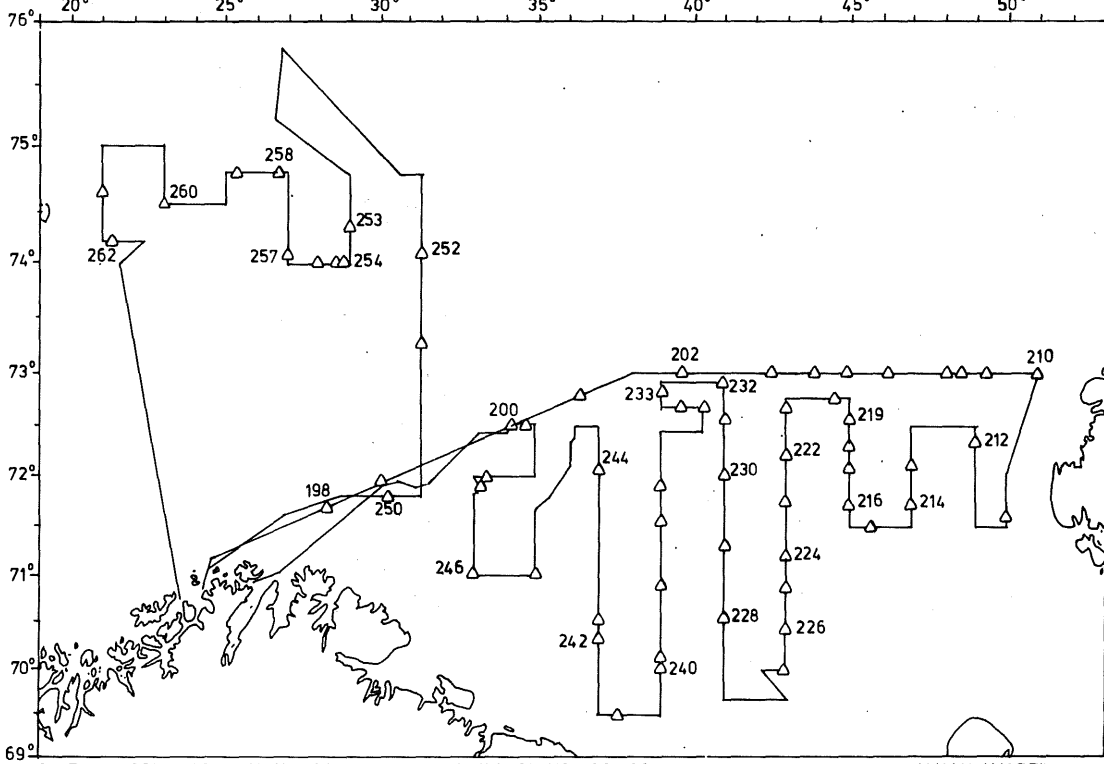
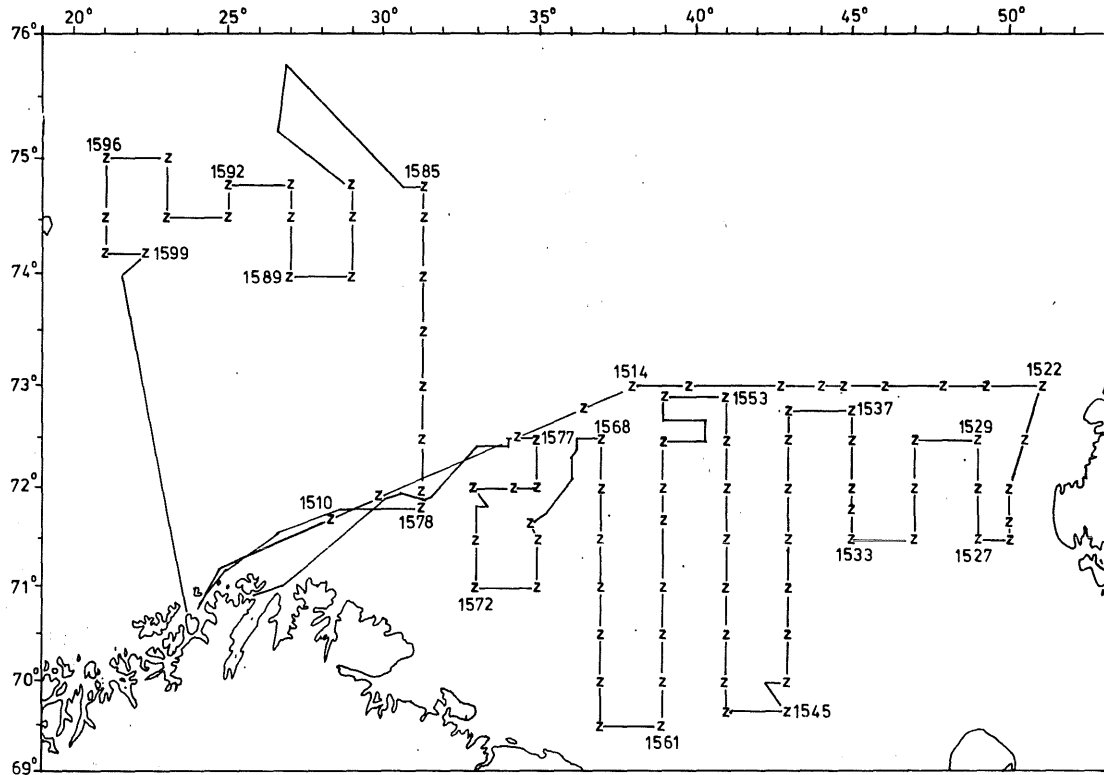


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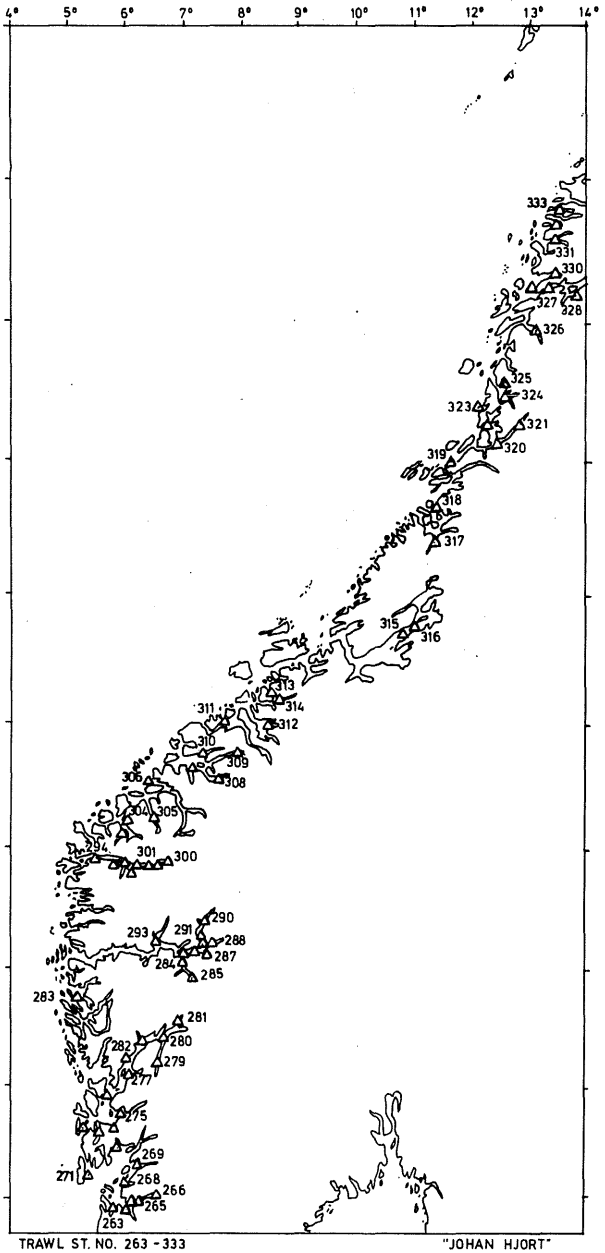
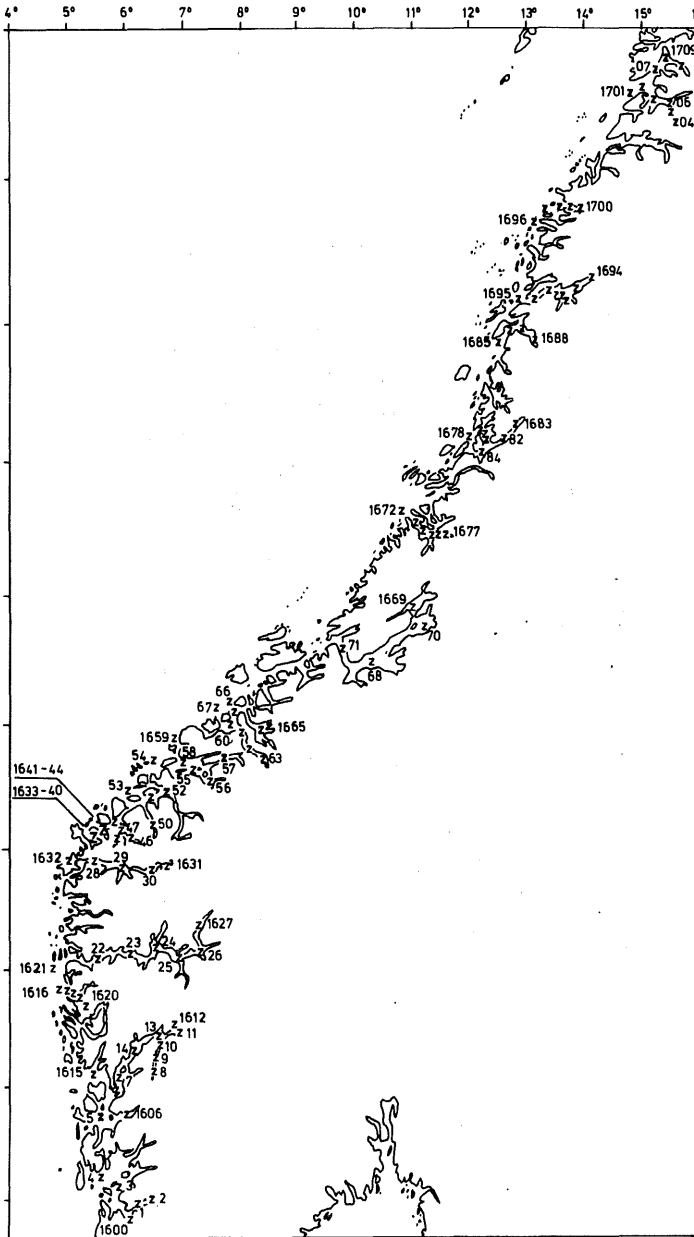


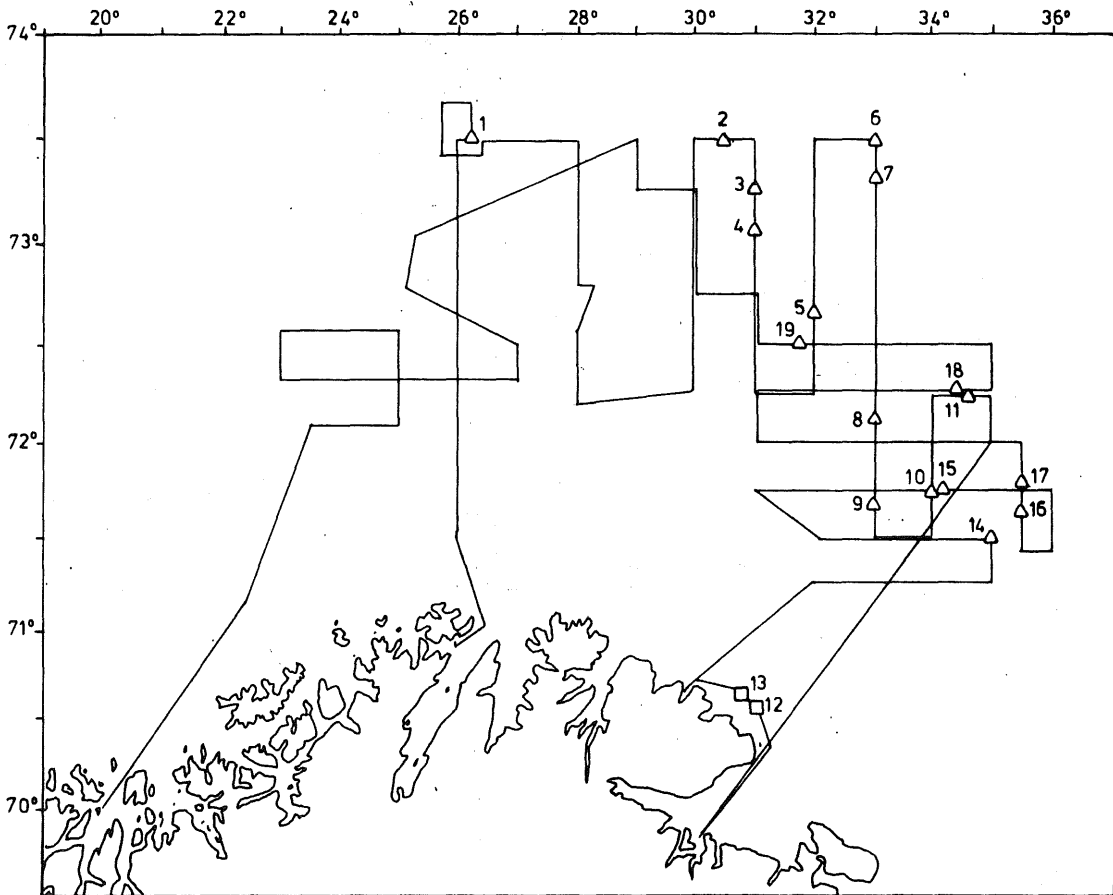
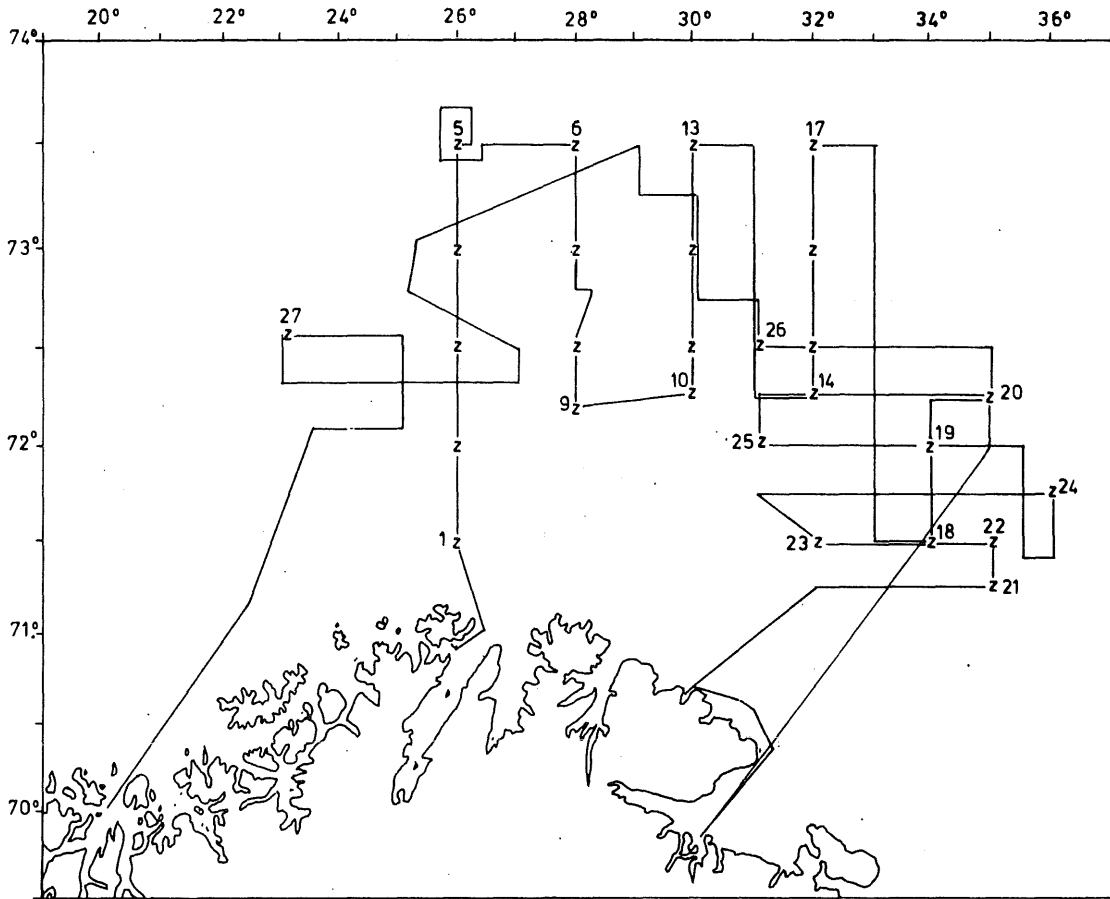
TRAWL ST. NO. 135 - 197

„JOHAN HJORT“



8 SEP. - 3 OCT. 1982 ST. NO. 1510 - 1599 TRAWL ST. NO. 198 - 262 „JOHAN HJORT”



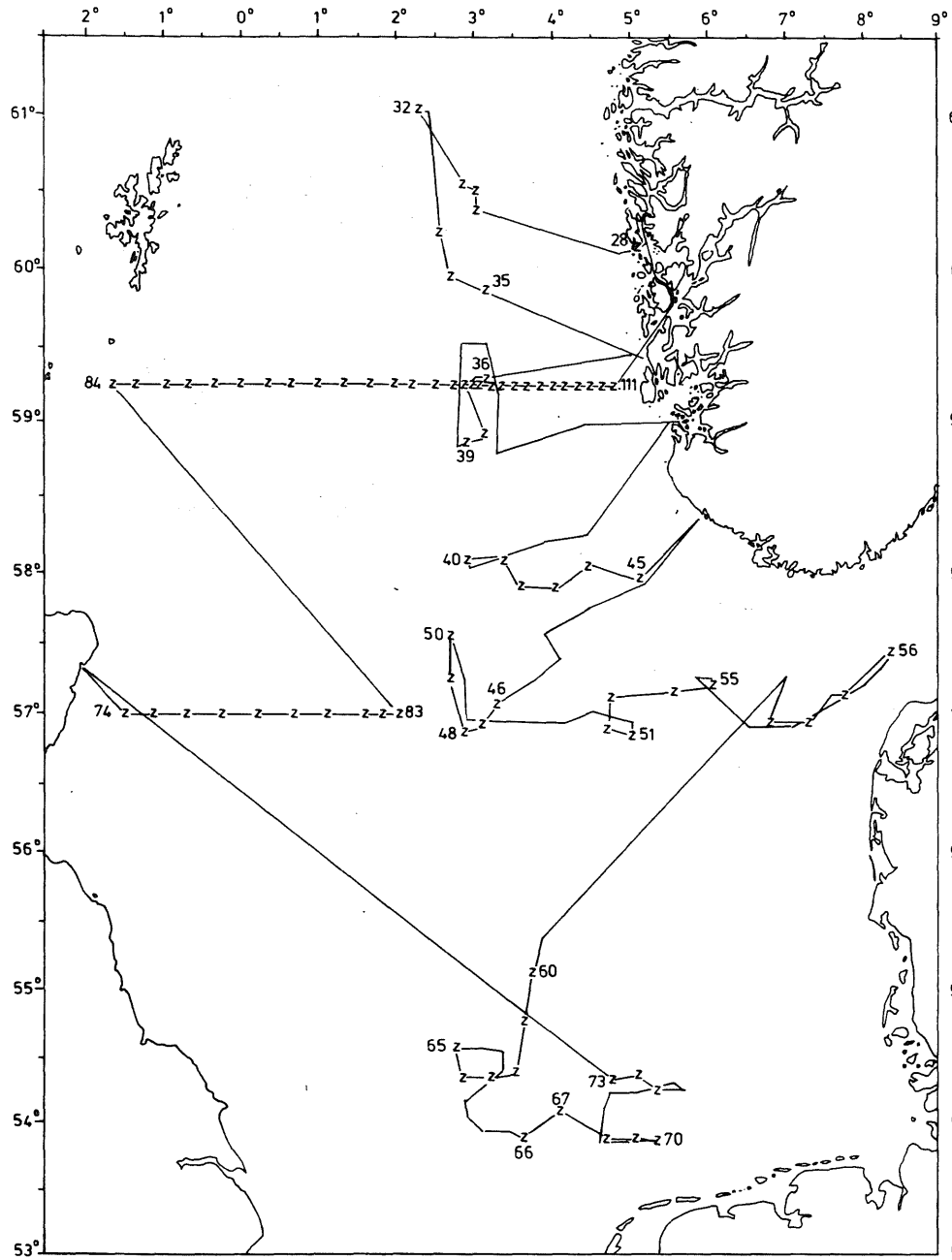


9-22 JAN.198

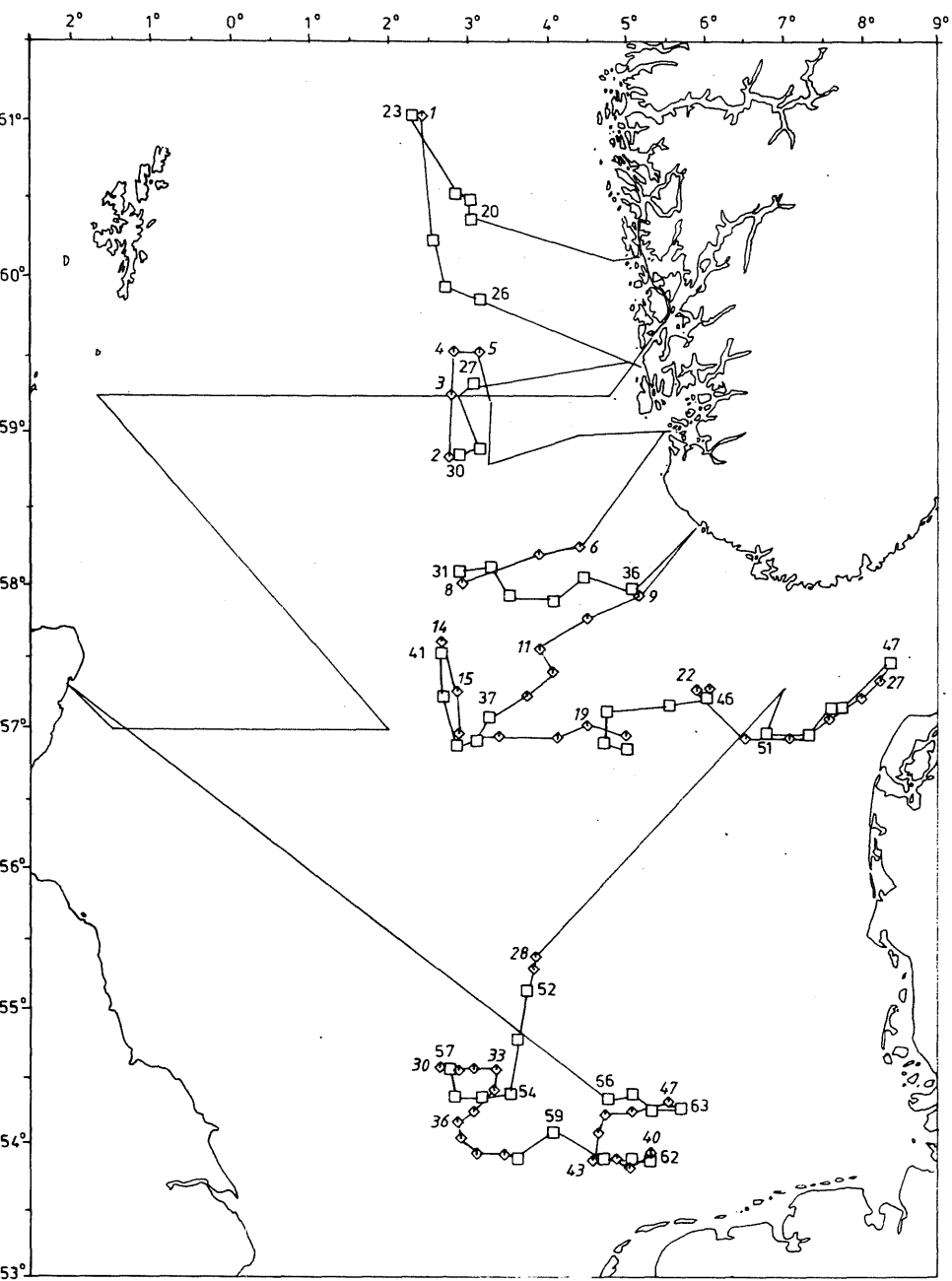
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TRAWL ST.NO. 1-19

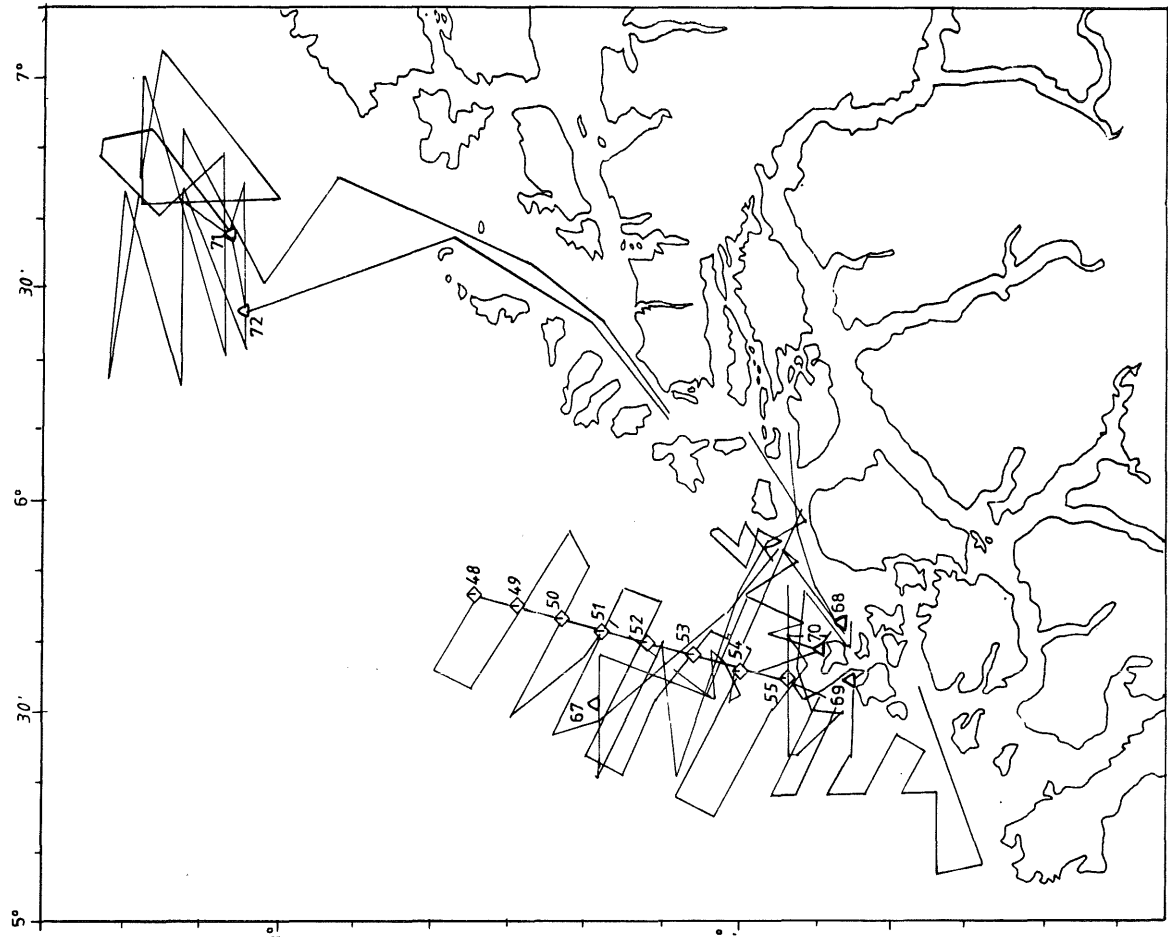
„MICHAEL SARS“



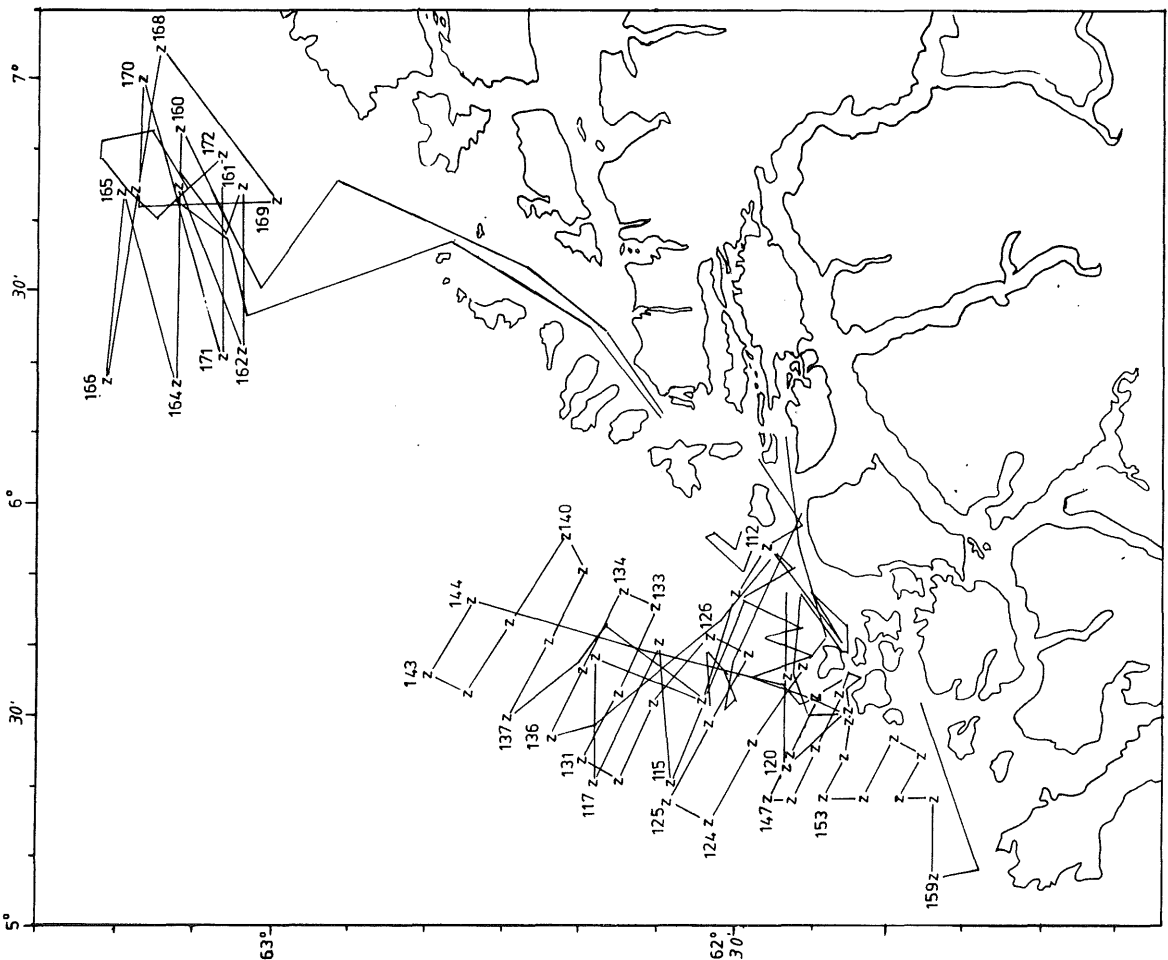
27 JAN. - 22 FEB. 1982 ST NO. 28 - 111 TRAWL ST. NO. 20 - 66 ◊ ISAAC KID PLANKTON ST. NO. 1 - 47



"MICHAEL SARS"

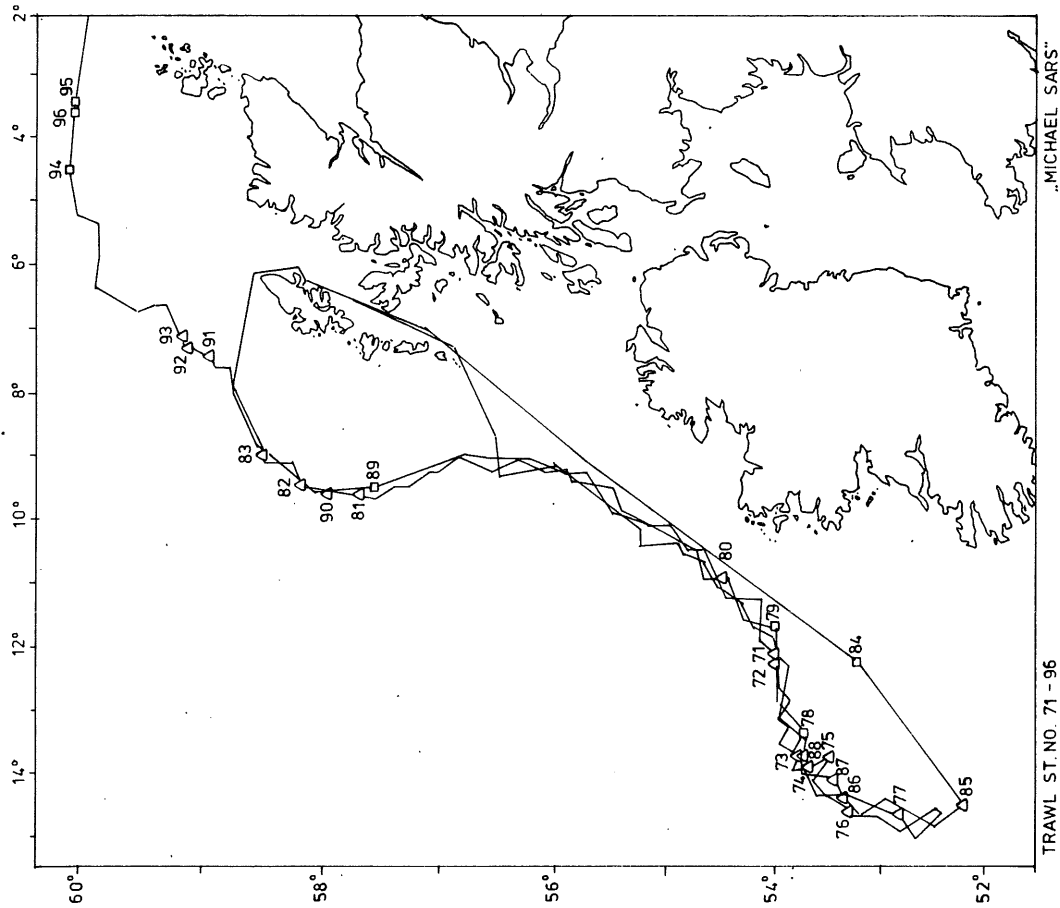


TRAWL ST. NO. 67-72      PLANKTON ST. NO. 48-55      MICHAEL SARRS

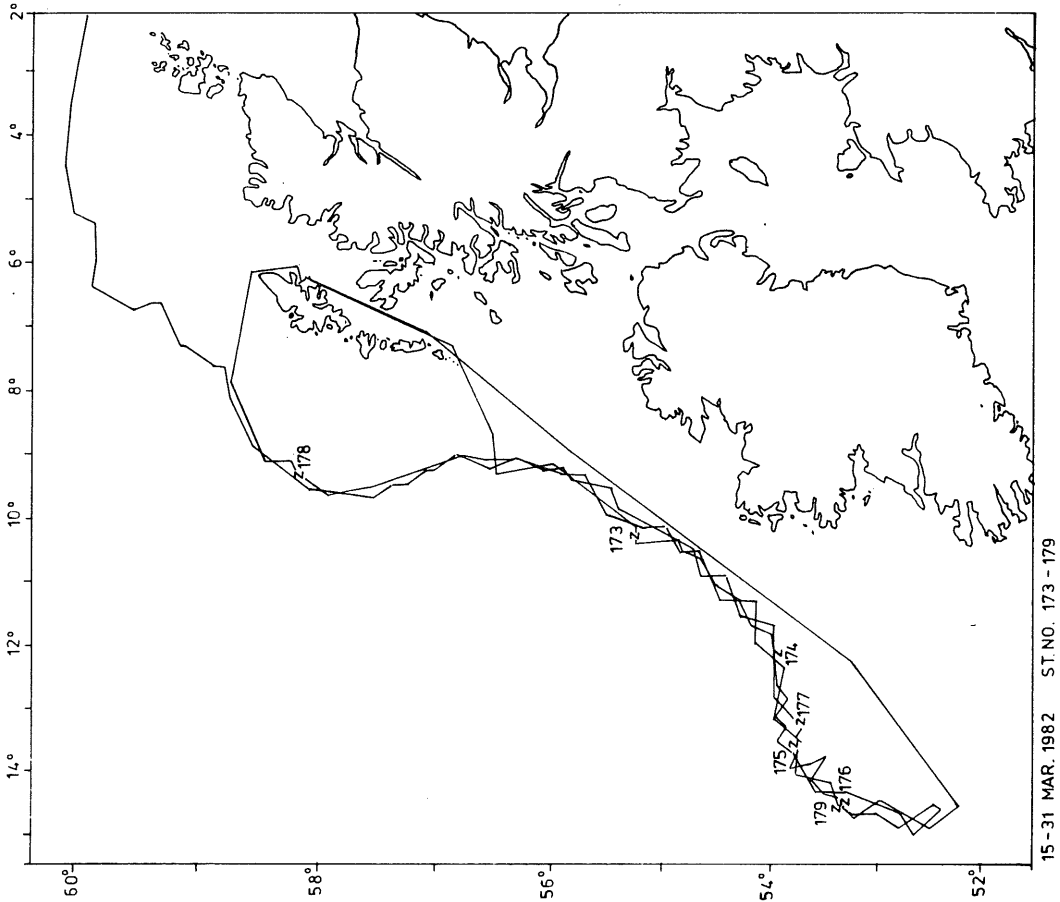


24 FEB. - 6 MAR. 1982 ST. NO. 112-172

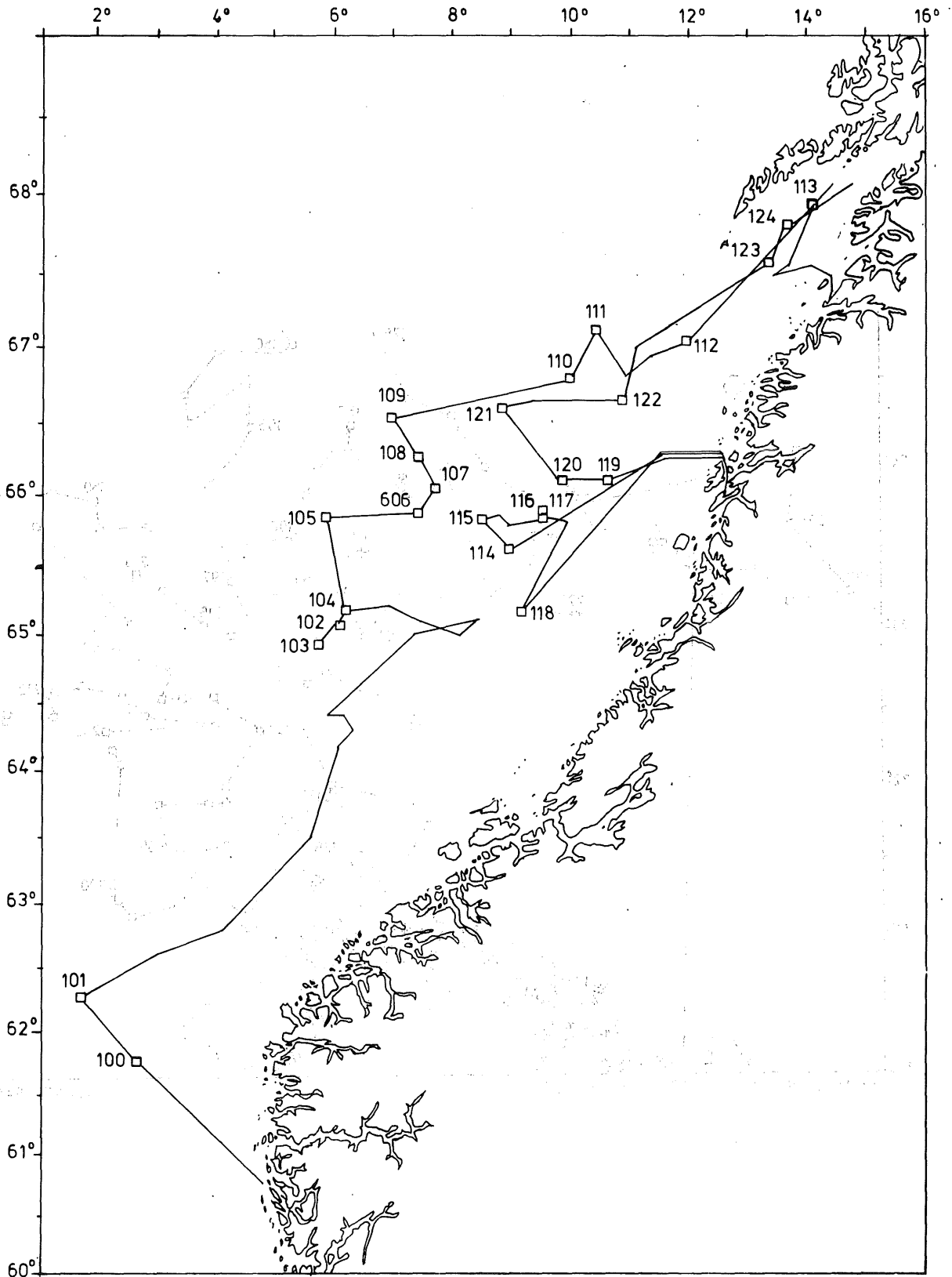




TRAWL ST. NO. 71 - 96

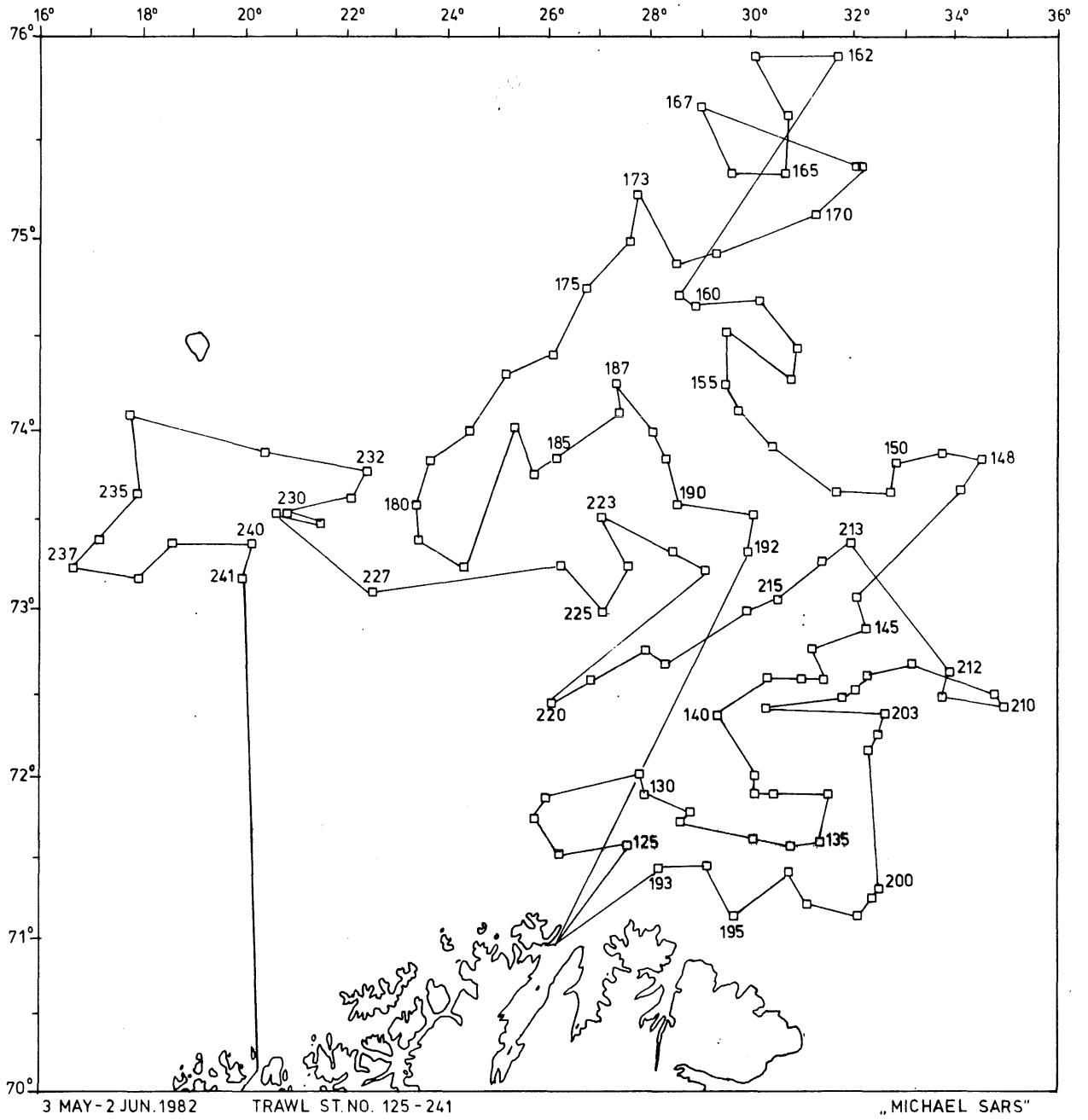


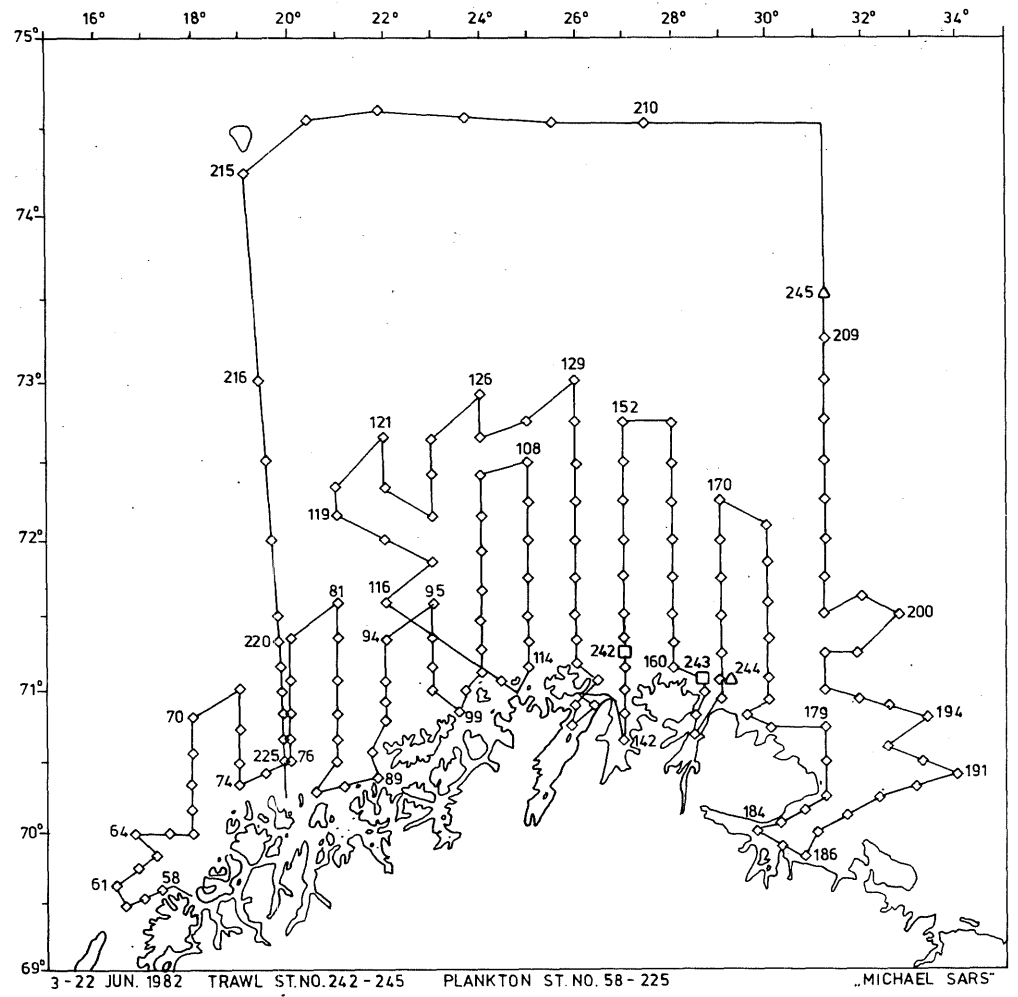
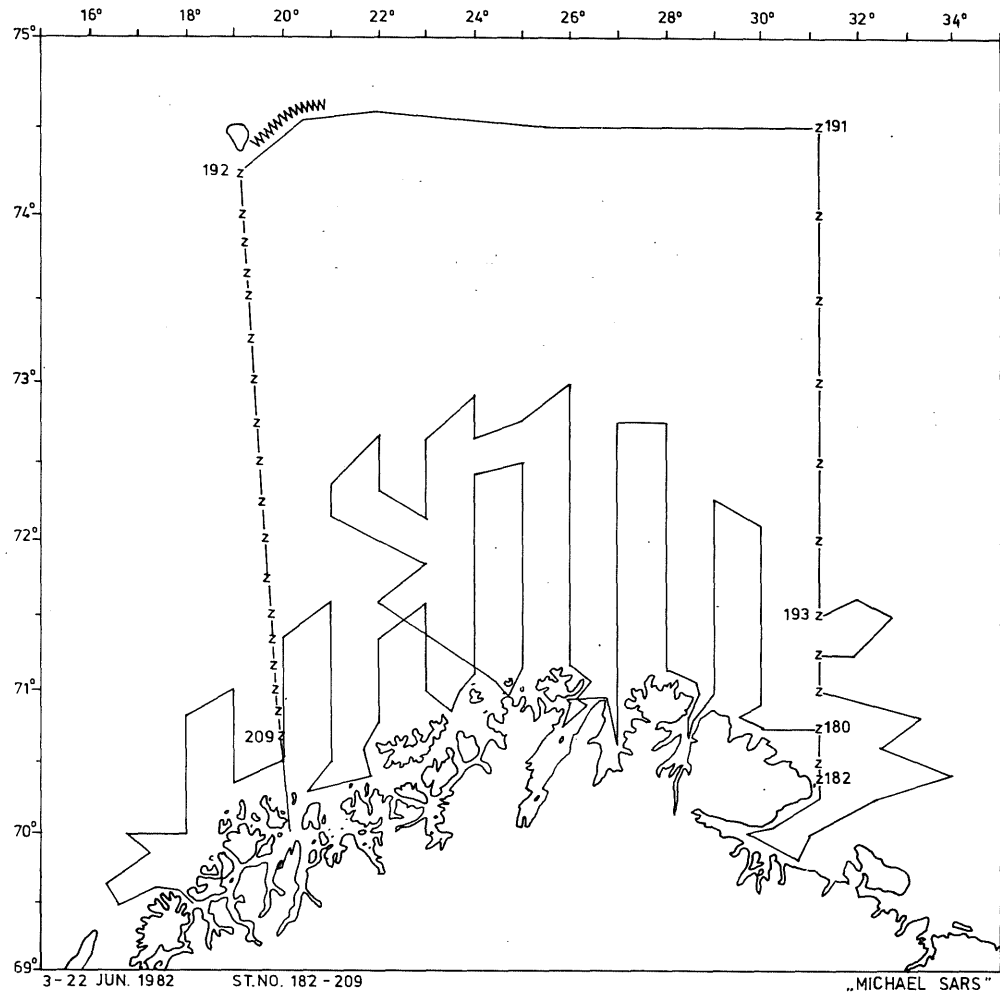
15-31 MAR. 1982 ST. NO. 173 - 179

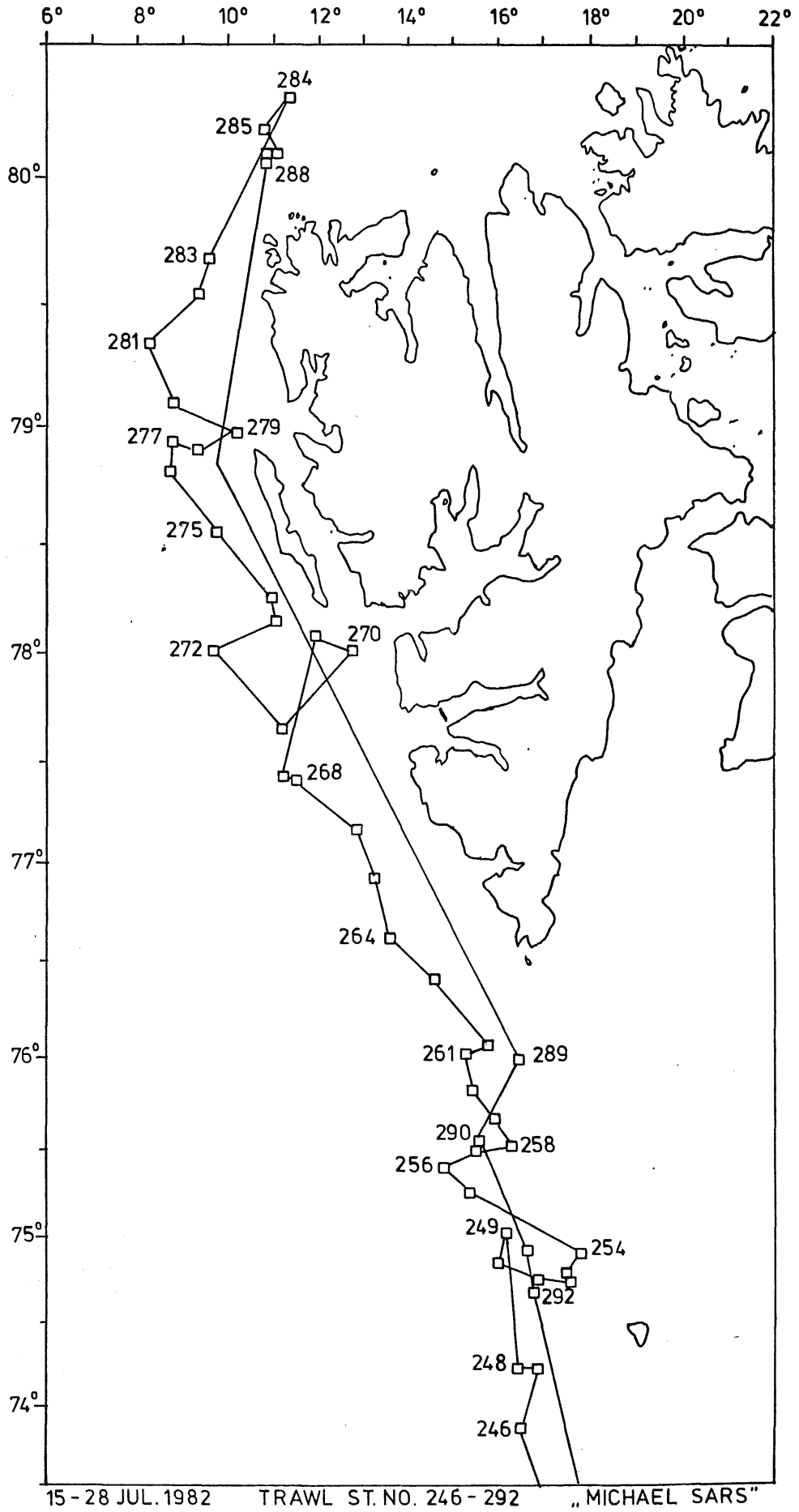


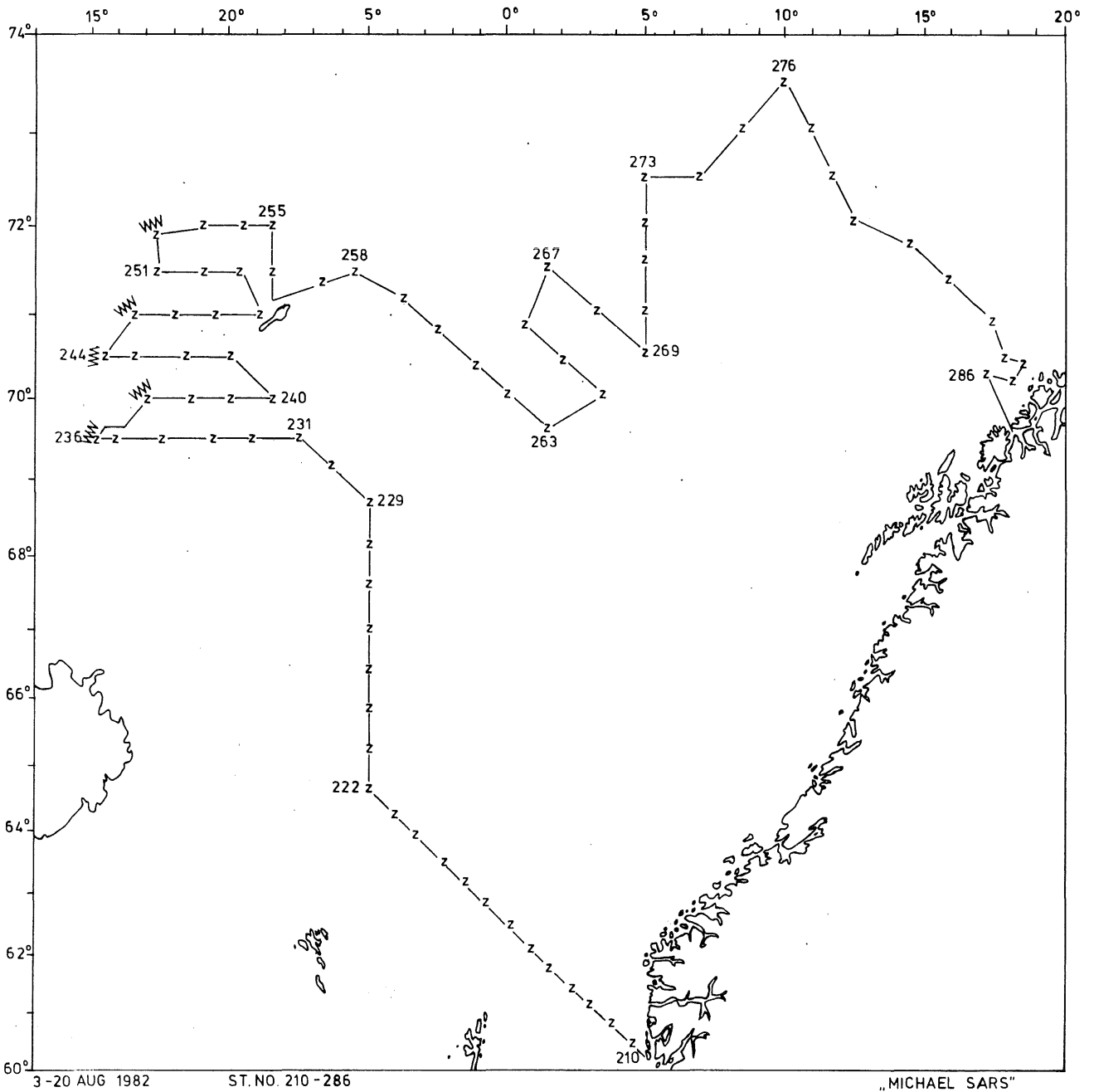
13 - 29 APR. 1982 TRAWL ST. NO. 100 - 124

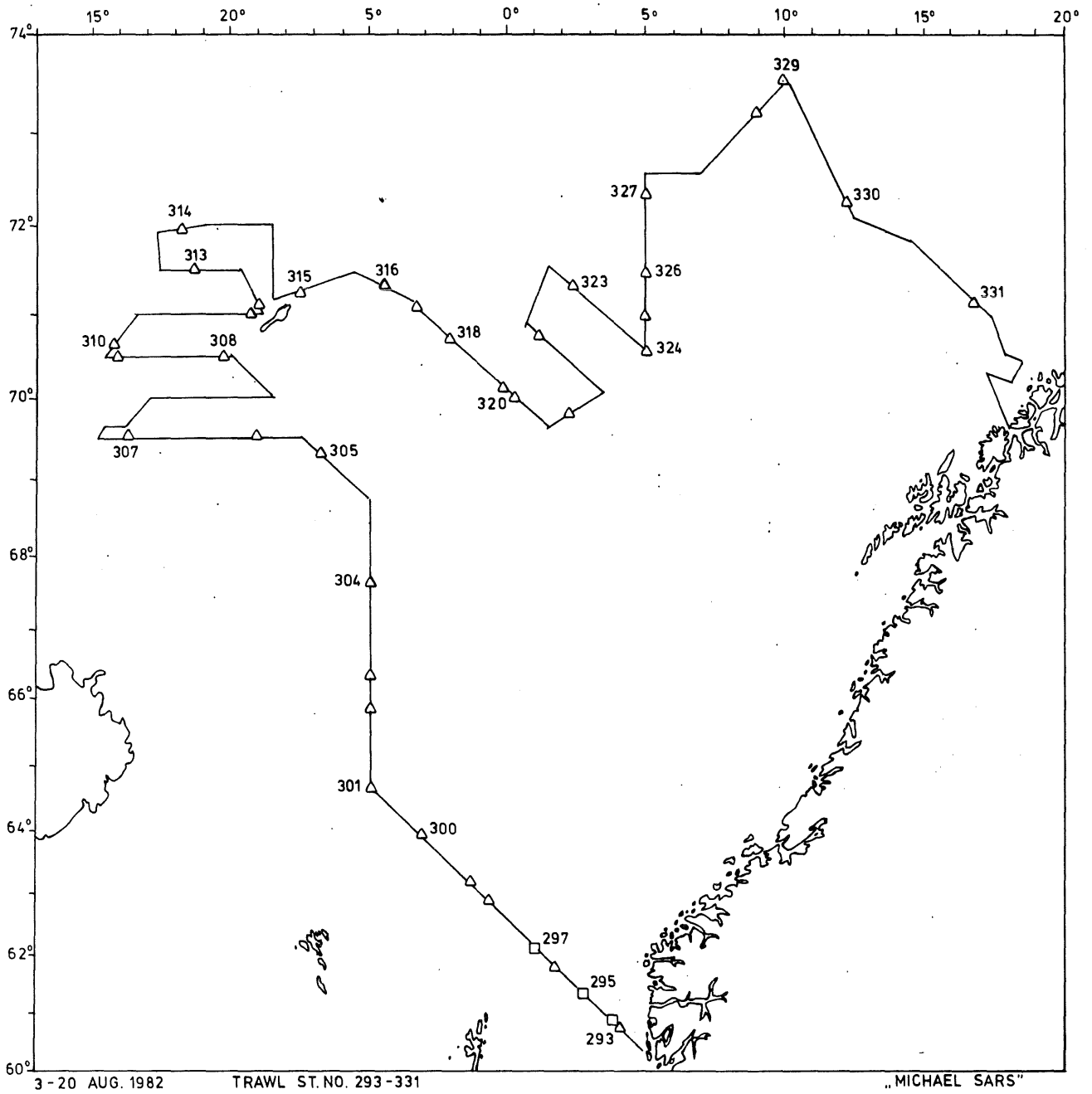
„MICHAEL SARS“

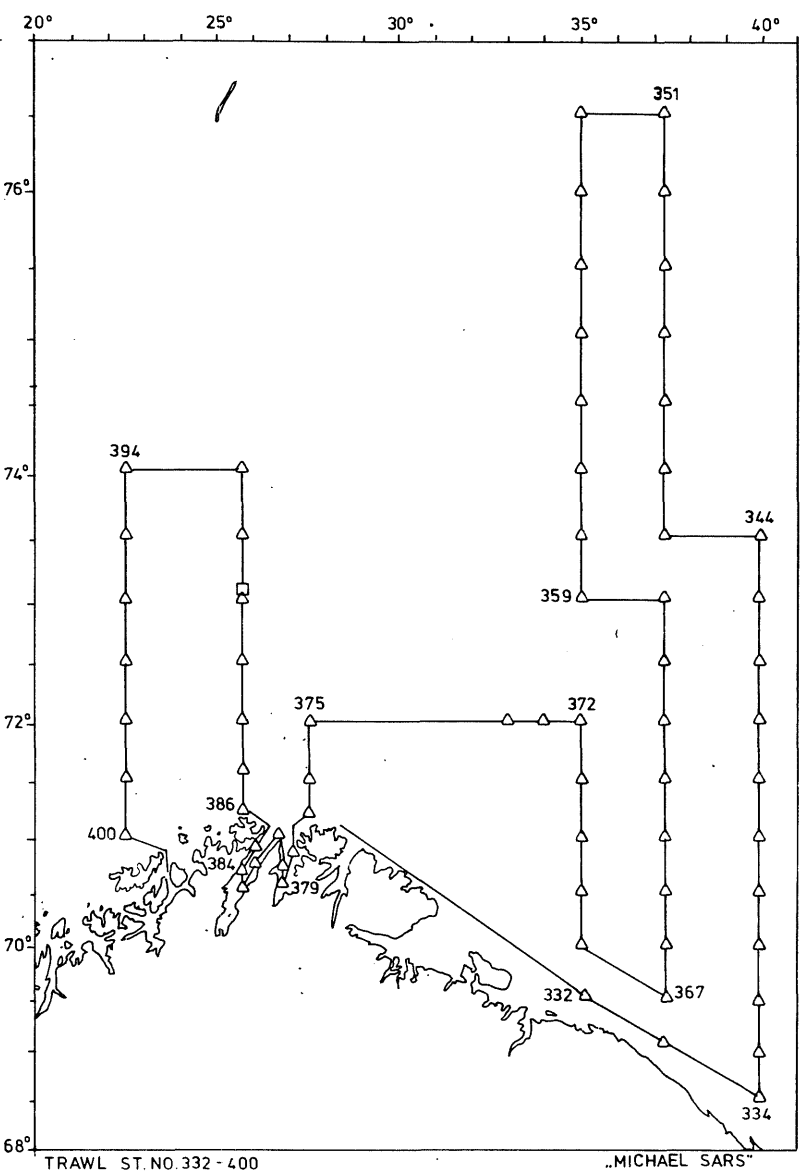
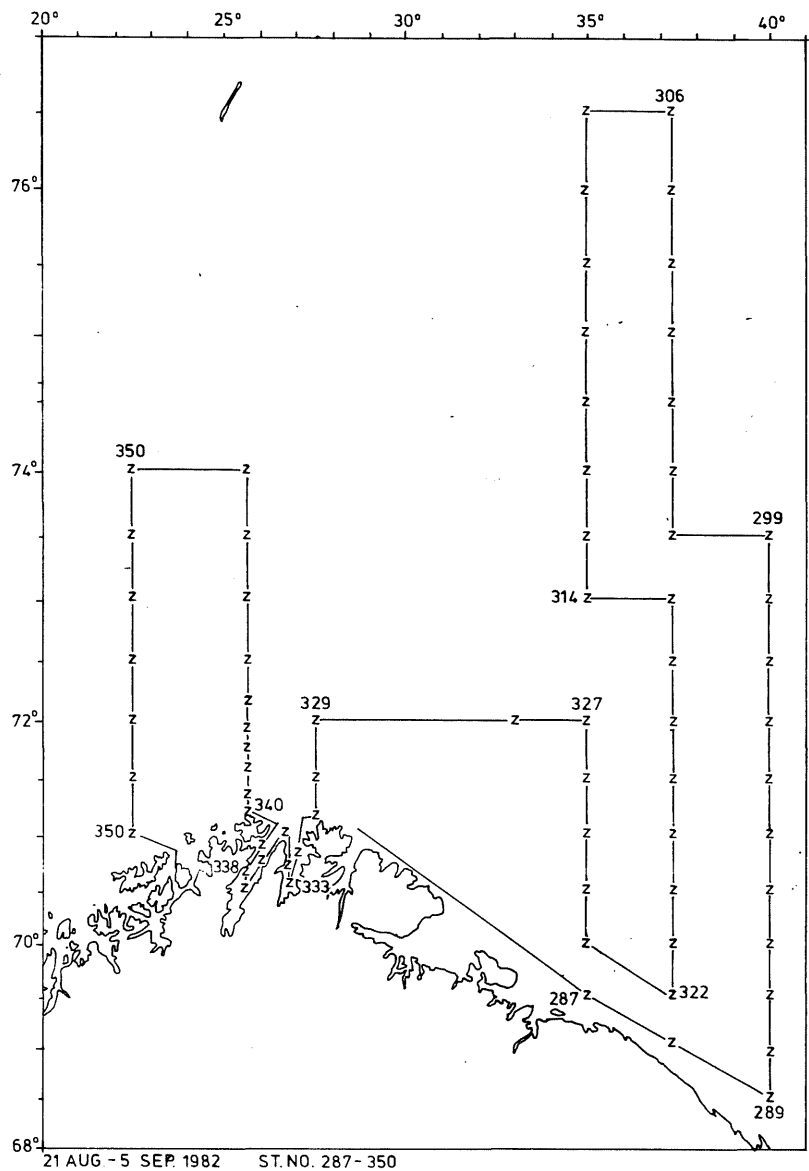




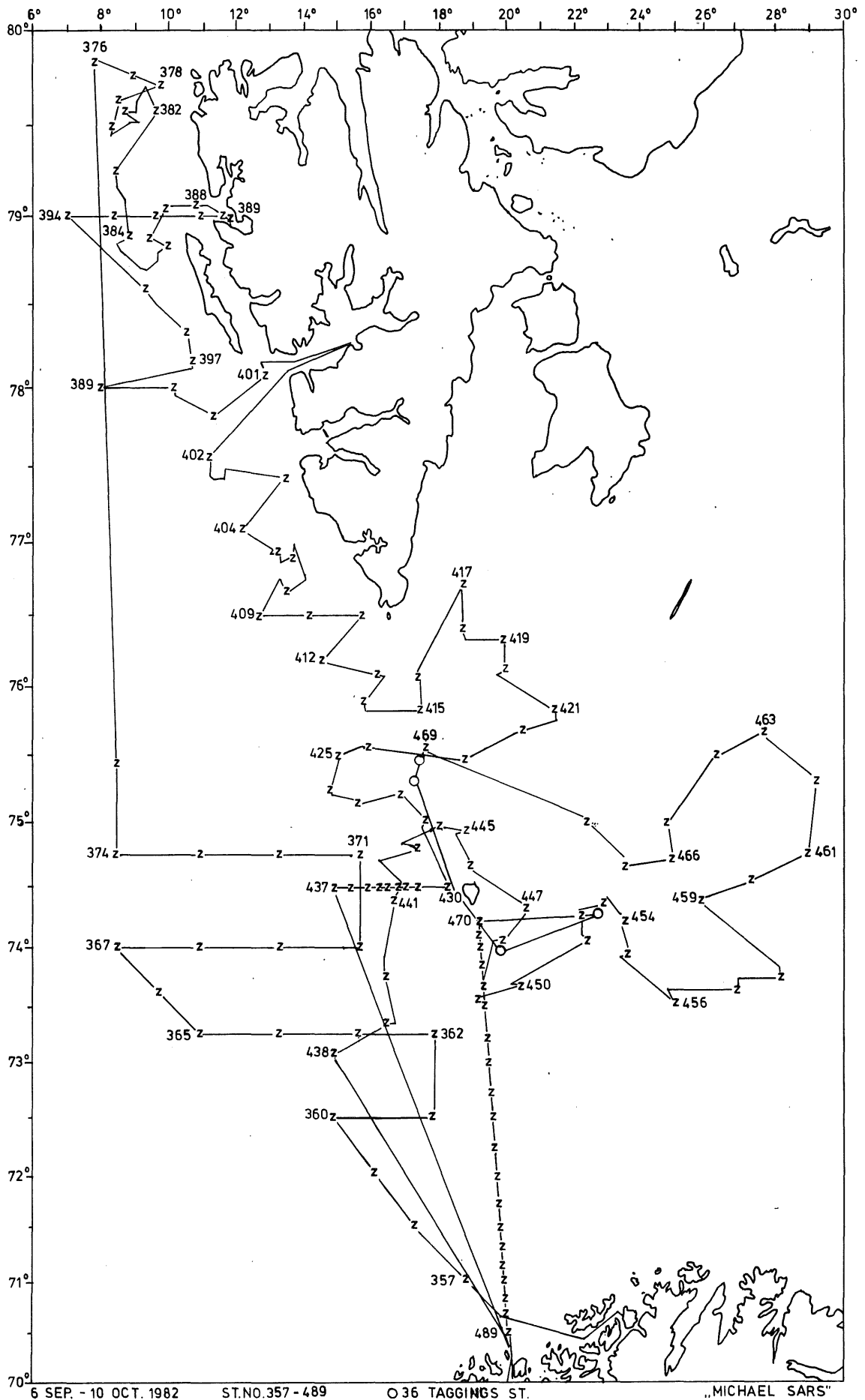


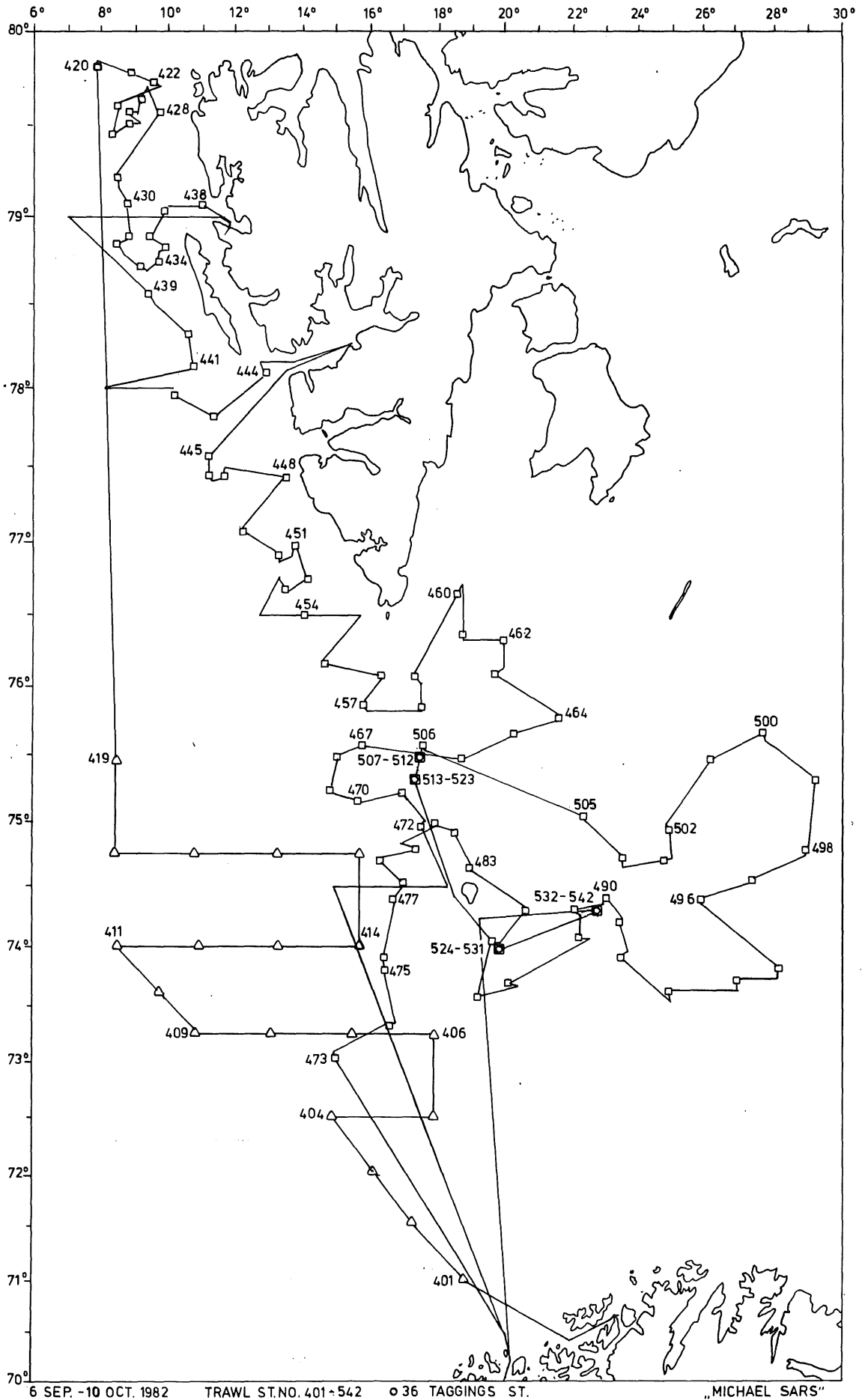


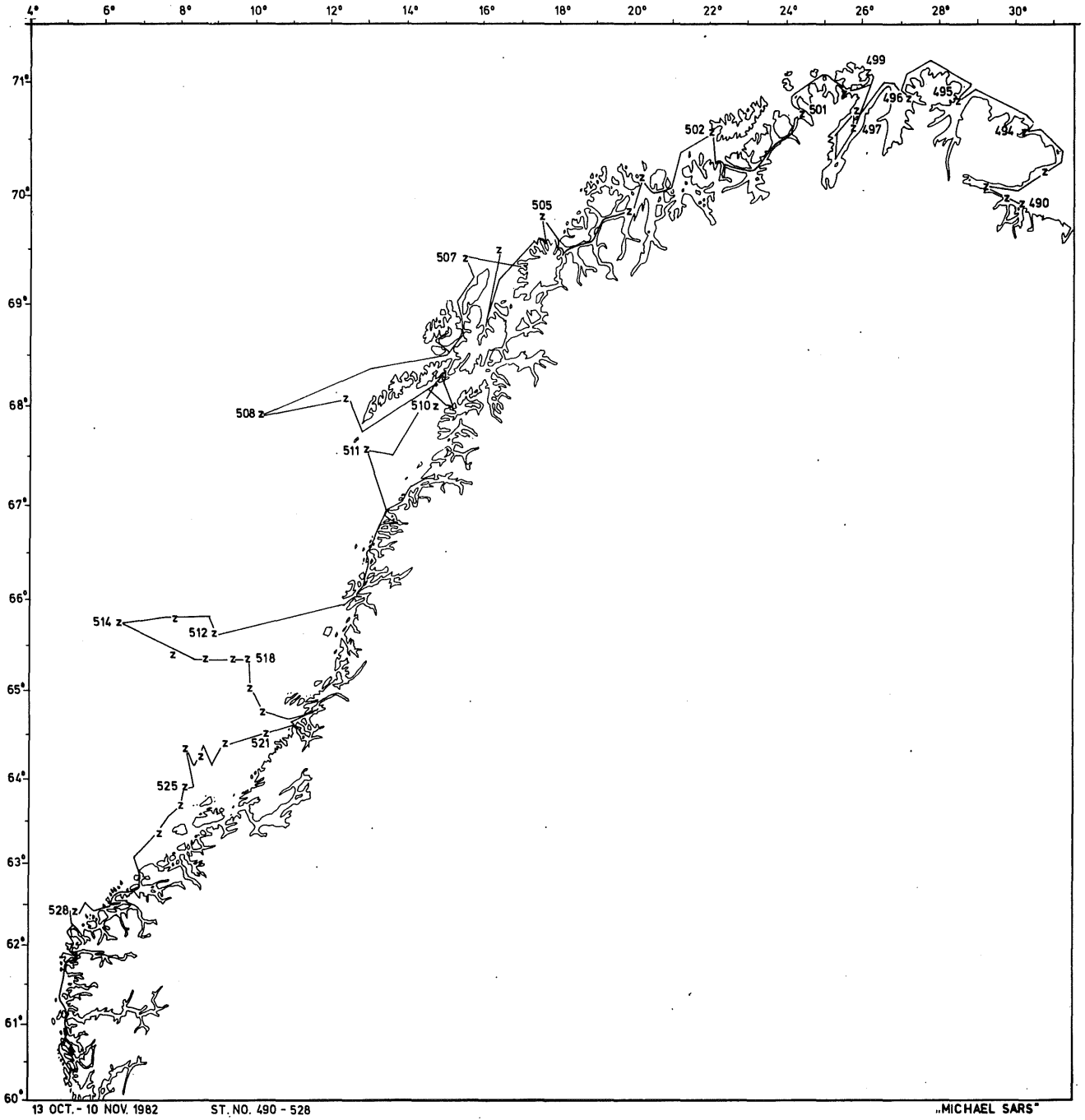


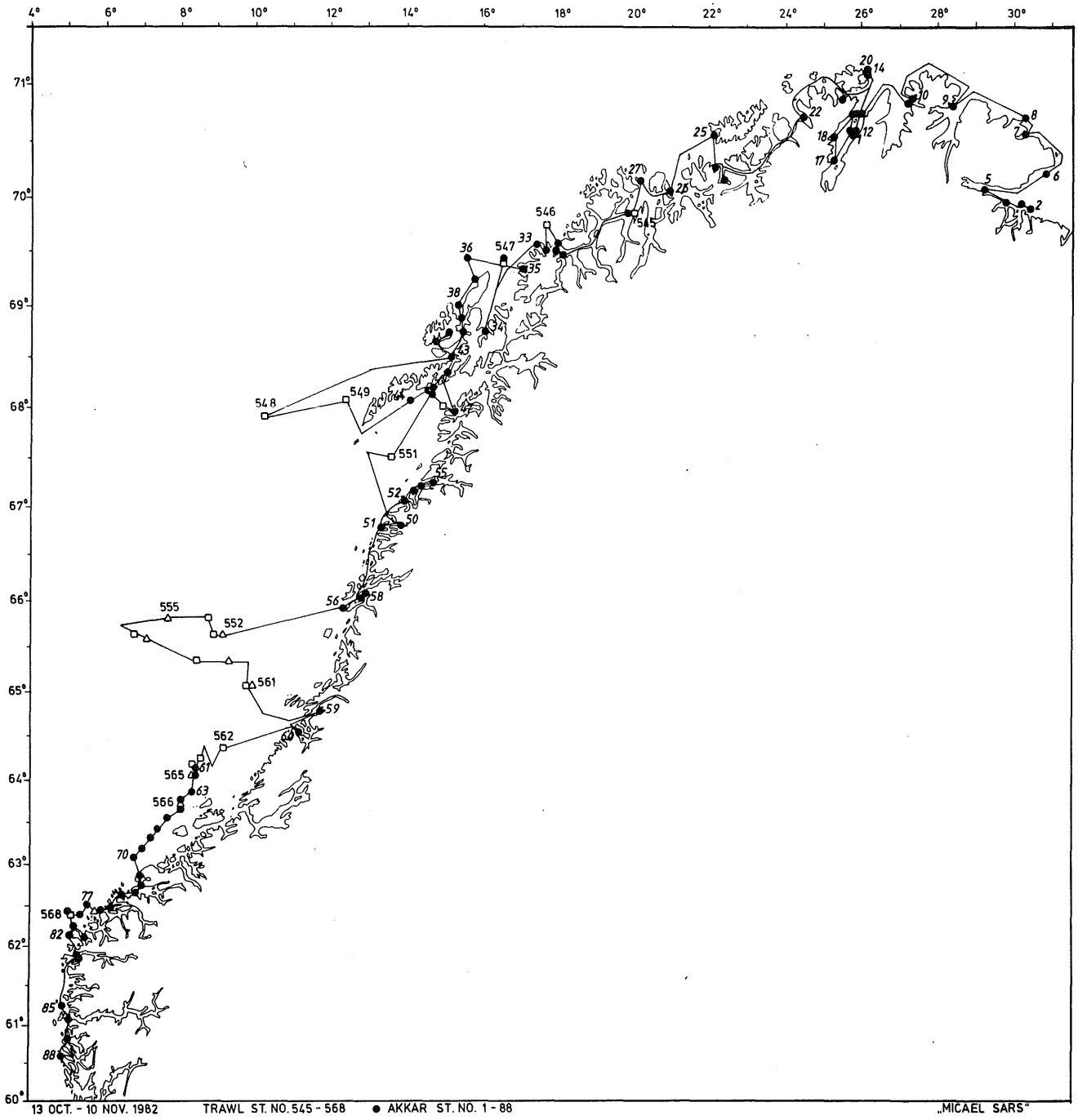


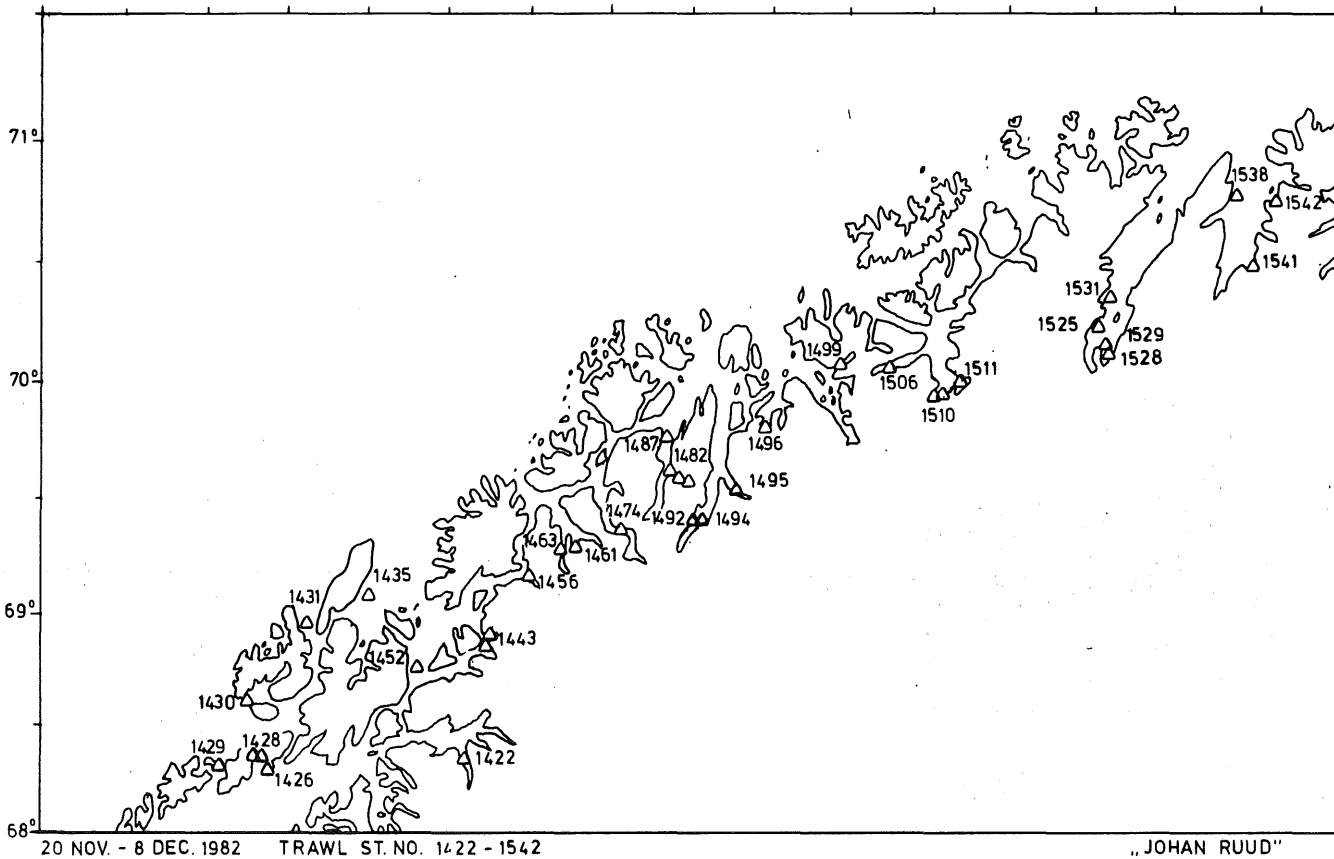
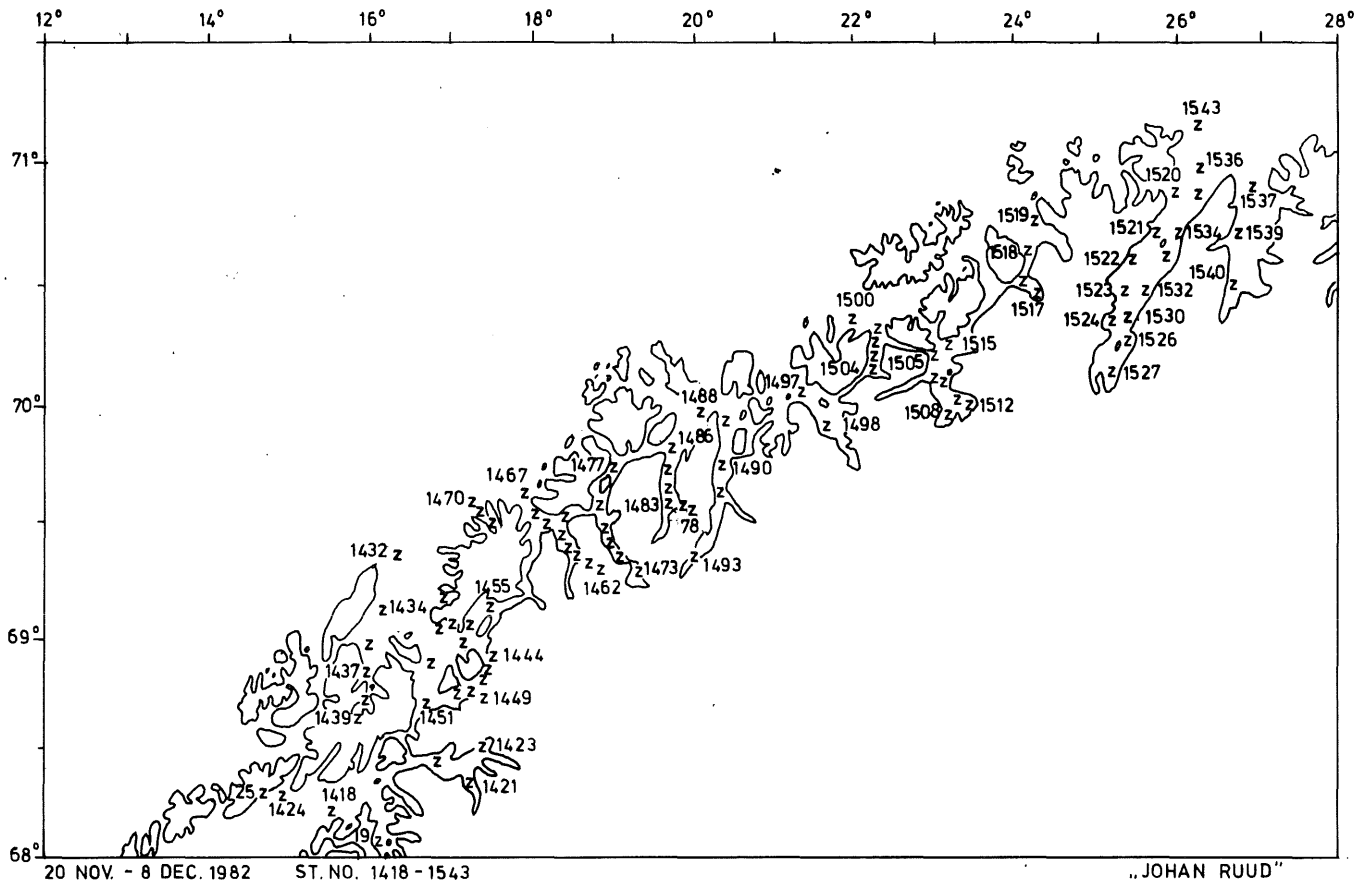


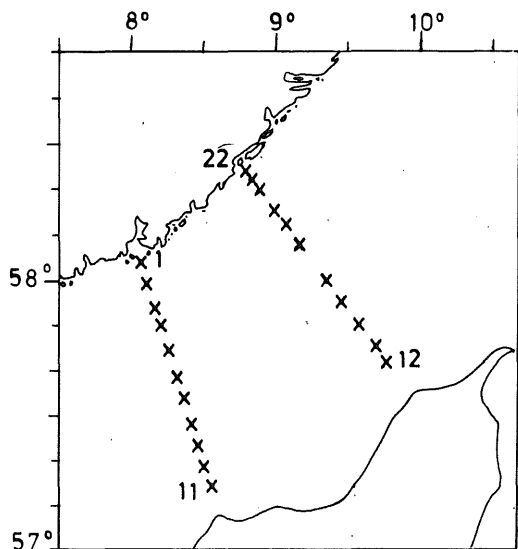




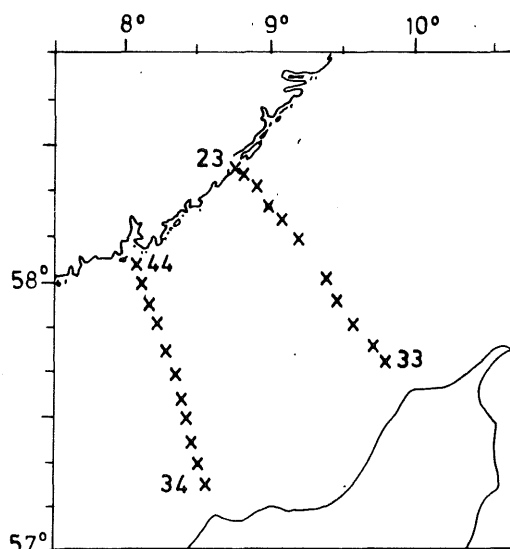




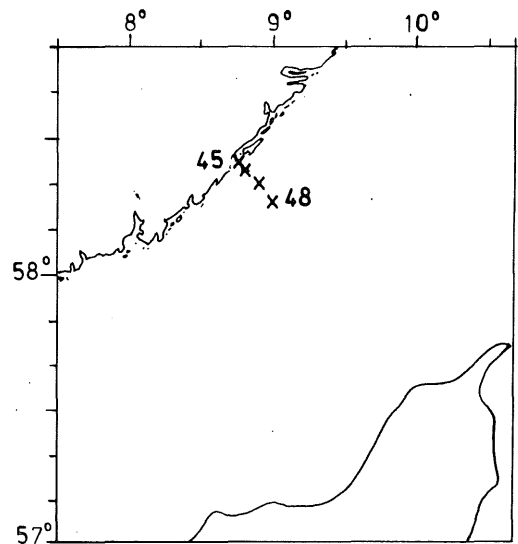




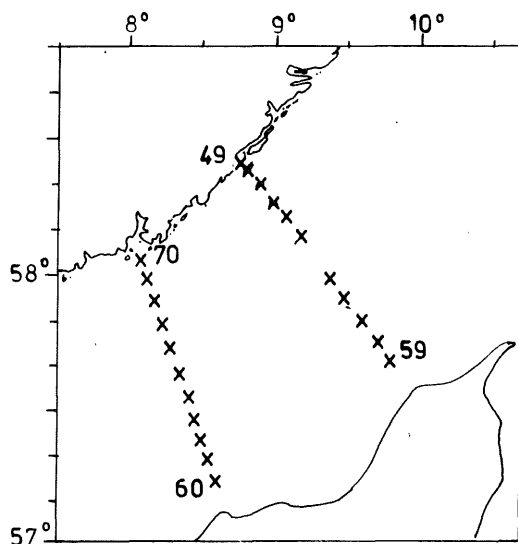
20 - 23 JAN. ST. NO. 1 - 22



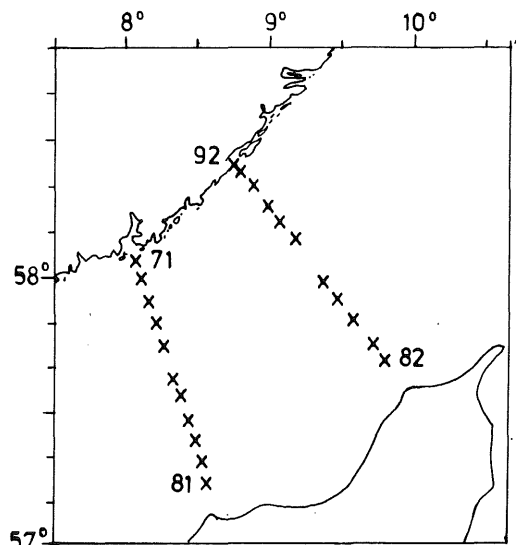
9 - 12 FEB. ST. NO. 23 - 44



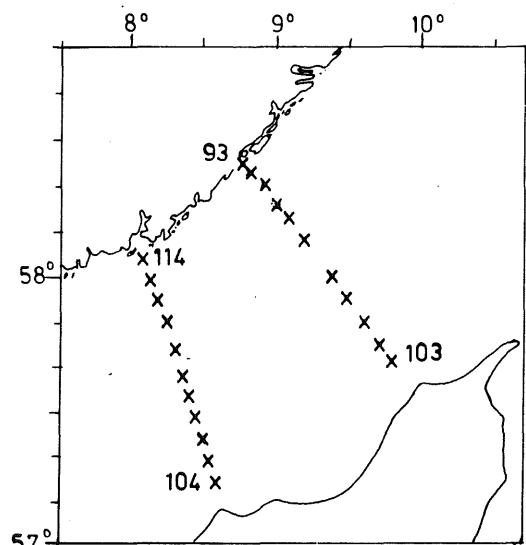
15 - 17 MAR. ST. NO. 45 - 48



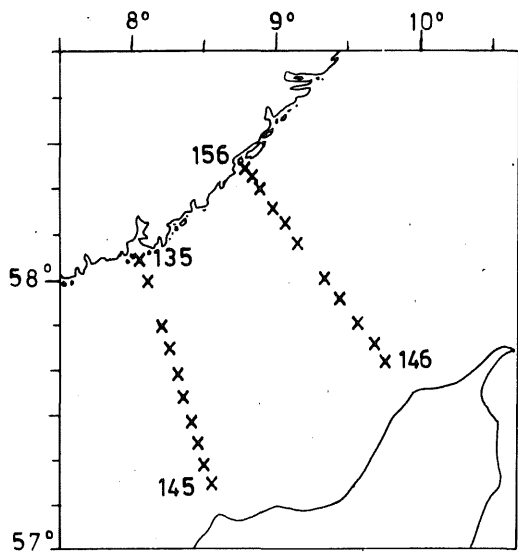
22 - 24 MAR. ST. NO. 49 - 70



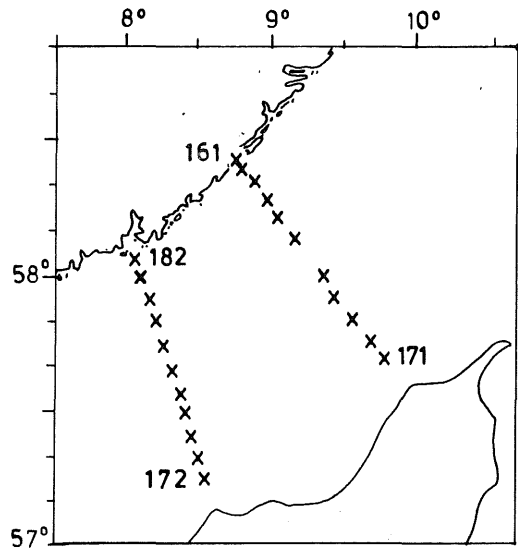
14 - 17 APR. ST. NO. 71 - 92



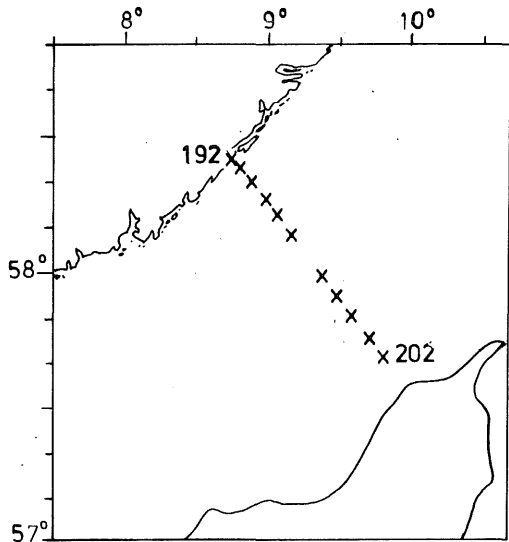
10 - 12 MAY ST. NO. 93 - 114



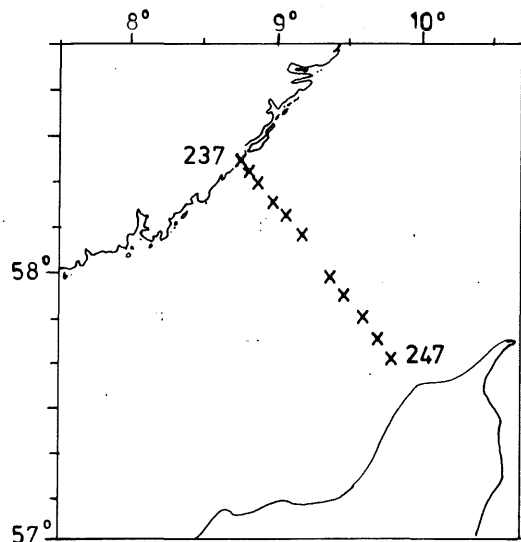
15-17 JUN. ST.NO. 135-156



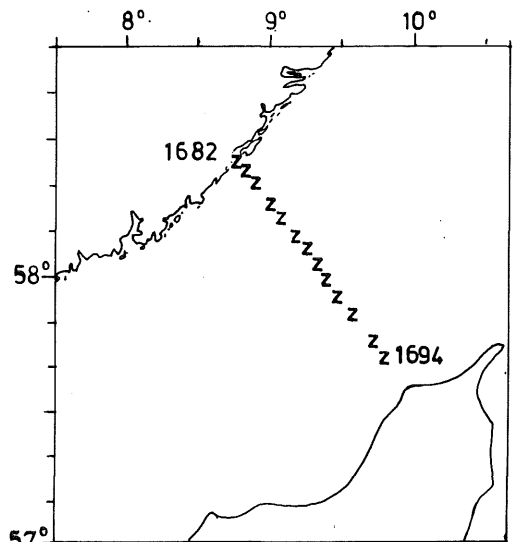
16-18 AUG. ST.NO. 161-182



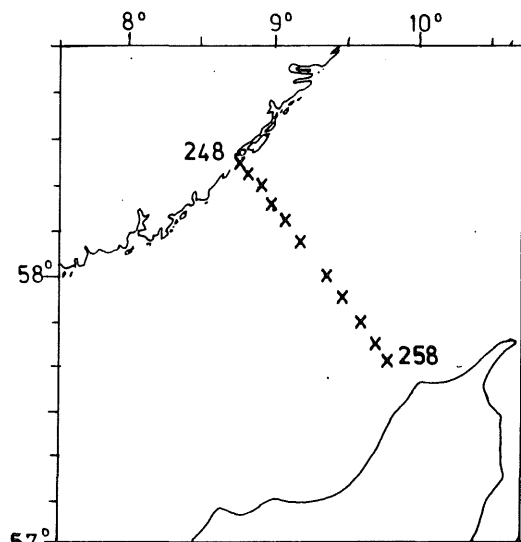
7 SEP. ST.NO. 192-202



26 OCT. ST.NO. 237-247



17 NOV. ST.NO. 1682-1694 „G.O. SARS”



13 DEC. ST.NO. 248-258

