

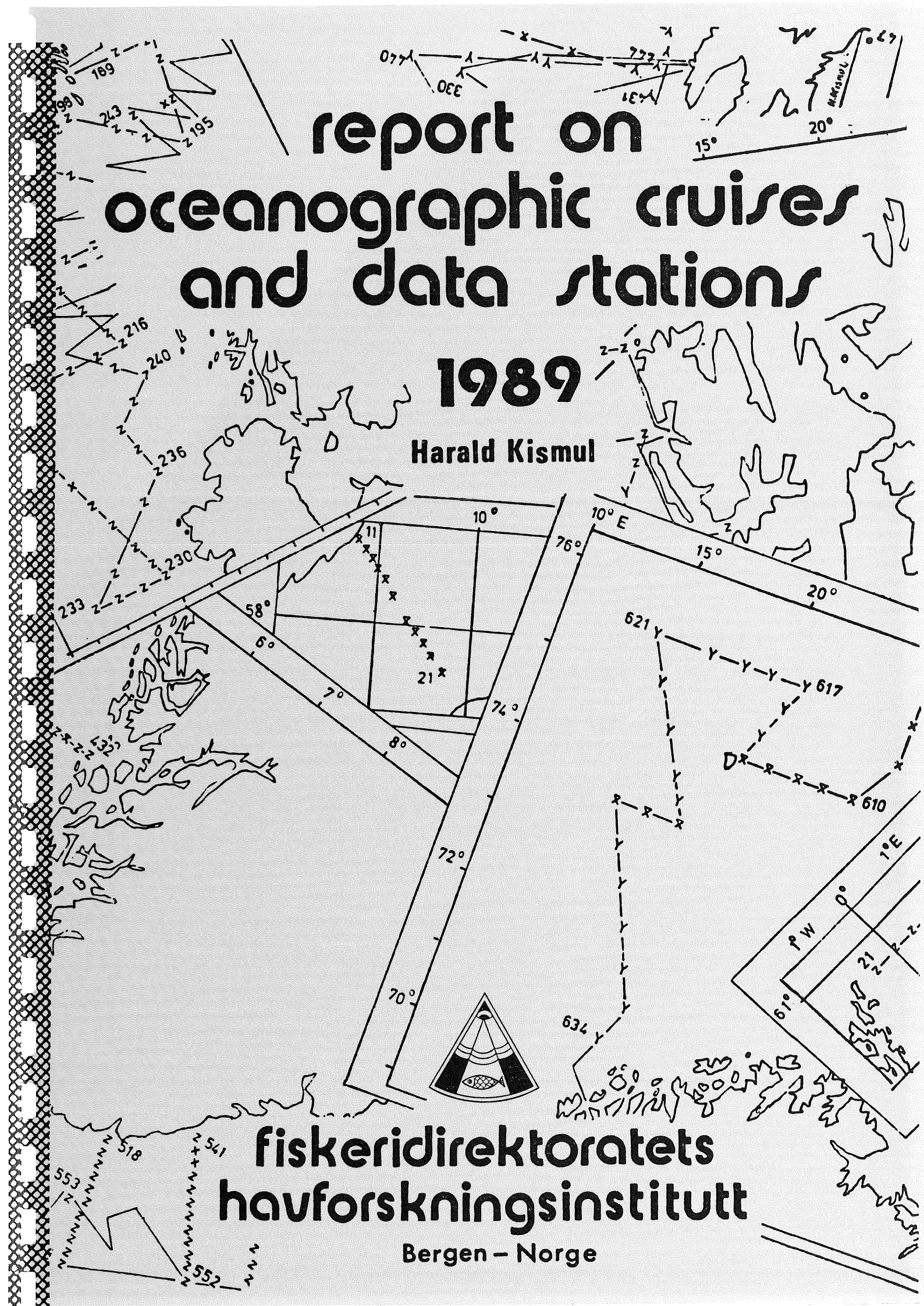
# report on oceanographic cruises and data stations

## 1989

### Harald Kismul

fiskeridirektoratets  
havforskningsinstitutt

Bergen – Norge





# report on oceanographic cruises and data stations

Harald Kismul

## Guidelines:

- Z Vertical profiles (STD/CTD)
- X Classical oceanogr. stations
- △ Moored buoy station
- △ Pelagic Trawl station
- Bottom Trawl station
- ◇ Plankton station
- Clarke
- Taggings
- Λ Surface observations t°C S‰

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ICES Annual Report on Oceanographic Cruises and Data Stations.

Country: NORWAY.

Year: 1989

Ship: "G.O. Sars"

Ship no: 15

| Cruise and Ship number. | Period of Cruises. | Number of stations.         |                            |                |           |      |                         |                      |        |           |             |                           |               |              | Cont. obs.    |                         |             |               | Page of track chart. |              |           |       |                     |              |               |                  |
|-------------------------|--------------------|-----------------------------|----------------------------|----------------|-----------|------|-------------------------|----------------------|--------|-----------|-------------|---------------------------|---------------|--------------|---------------|-------------------------|-------------|---------------|----------------------|--------------|-----------|-------|---------------------|--------------|---------------|------------------|
|                         |                    | Classical Oceanogr. st. COS | Vertical Oceanogr. st. CTD | ARGOS Drifters | Waverider | ADCP | Aanderaa Current Meters | Bottle Cast (Niskin) | Oxygen | Nutrients | Chlorophyll | Turbulence current meters | Pelagic Trawl | Bottom Trawl | Mocness Trawl | Pelagic Eggs and Larvae | Zooplankton | Phytoplankton |                      | Shrimp Trawl | Beachsein | HUFSA | Surface Temperature | Transparency | Echo Sounding | Echo Integration |
| 1/15                    | 1001-2601          | 56                          | 56                         |                |           | X    |                         |                      |        |           |             | 45                        | 7             |              | 7             |                         |             |               |                      |              |           | X     | X                   | X            | X             | 13-14            |
| 2/15                    | 2701-2602          |                             | 89                         |                |           | X    |                         |                      |        |           |             | 16                        | 68            |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 15-16            |
| 3/15                    | 2602-0603          |                             | 11                         |                |           | X    |                         |                      |        |           |             |                           | 25            |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 17               |
| 4/15                    | 1003-2703          | 16                          | 205                        |                |           | X    |                         |                      | 16     |           |             | 7                         | 11            |              | 11            | 11                      |             |               |                      |              |           | X     | X                   | X            | X             | 18               |
| 5/15                    | 3003-2404          |                             | 65                         |                |           | X    |                         |                      |        |           |             | 42                        | 4             |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 19-20            |
| 6/15                    | 2804-0905          |                             | 126                        | 7              | 1         | X    | 3                       |                      |        |           | 55          | 55                        | 8             |              |               | 124                     |             |               |                      |              |           | X     | X                   | X            | X             | 21-22-23-24      |
| 7/15                    | 0905-2205          |                             | 63                         |                |           | X    |                         |                      |        |           |             | 11                        | 4             | 5            |               |                         |             |               |                      | 3            |           | X     | X                   | X            | X             | 25-26            |
| 8/15                    | 2305-0706          |                             | 85                         |                |           | X    |                         |                      |        |           |             | 7                         | 15            |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 27-28            |
| 9/15                    | 0407-2307          |                             | 118                        |                |           | X    |                         |                      |        |           |             | 98                        |               |              |               | 98                      |             |               |                      |              |           | X     | X                   | X            | X             | 29-30            |
| 10/15                   | 2507-2008          |                             | 132                        |                |           | X    |                         |                      |        |           |             | 60                        | 2             |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 31-32            |
| 11/15                   | 2008-1109          |                             | 175                        |                |           | X    | 3                       |                      |        |           |             | 87                        | 4             |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 33-34            |
| 12/15                   | 1309-0310          |                             | 77                         |                |           | X    |                         |                      |        |           |             | 57                        | 31            | 12           |               | 17                      |             |               |                      |              |           | X     | X                   | X            | X             | 35-36            |
| 13/15                   | 0610-2310          |                             | 54                         |                |           | X    |                         |                      |        |           |             | 16                        | 38            |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 37-38            |
| 14/15                   | 2510-0111          |                             | 33                         |                |           | X    | 3                       |                      |        |           |             |                           |               |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 39               |
| 15/15                   | 0211-2511          |                             | 70                         |                |           | X    |                         |                      |        |           |             | 45                        | 18            |              |               |                         |             |               |                      |              |           | X     | X                   | X            | X             | 40-41            |
| 16/15                   | 2711-0612          |                             | 86                         |                |           | X    |                         |                      | 9      | 86        | 9           |                           | 1             | 3            |               | 30                      |             |               |                      |              |           | X     | X                   | X            | X             | 42-43            |
| <b>Total:</b>           |                    | 72                          | 145                        | 10             | 1         |      | 9                       |                      | 9      | 102       | 9           | 55                        | 546           | 236          | 20            | 18                      | 280         |               |                      |              | 3         |       |                     |              |               |                  |







ICES Annual Report on Oceanographic Cruises and Data Stations.

Country: NORWAY.

Year: 1989

Ship: Eldjarn

Ship no: 14

| Cruise and Ship number. | Period of Cruises. | Number of stations.         |                            |                |                  |      |                         |                      |        |           |             |                  |               |              |               |                         |             | Cont. obs.    |              |            |          | Page of track chart. |                     |              |               |                  |
|-------------------------|--------------------|-----------------------------|----------------------------|----------------|------------------|------|-------------------------|----------------------|--------|-----------|-------------|------------------|---------------|--------------|---------------|-------------------------|-------------|---------------|--------------|------------|----------|----------------------|---------------------|--------------|---------------|------------------|
|                         |                    | Classical Oceanogr. st. COS | Vertical Oceanogr. st. CTD | ARGOS Drifters | Rosette Samplers | ADCP | Aanderaa Current Meters | Bottle Cast (Niskin) | Oxygen | Nutrients | Chlorophyll | Oil Hydrocarbons | Pelagic Trawl | Bottom Trawl | Mocness Trawl | Pelagic Eggs and Larvae | Zooplankton | Phytoplankton | Shrimp Trawl | ISAAC KIDD | GRAB ST. |                      | Surface Temperature | Transparency | Echo Sounding | Echo Integration |
| 1/14                    | 05.01-18.01        | 9                           | 9                          |                |                  |      |                         | 9                    |        |           |             | 4                |               |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 71               |
| 2/14                    | 20.01-13.02        |                             | 72                         |                |                  |      |                         |                      |        |           |             |                  | 44            |              | 71            |                         |             |               |              |            |          | x                    | x                   | x            | x             | 72-73            |
| 3/14                    | 15.02-12.03        |                             | 137                        |                |                  |      |                         |                      |        |           |             | 19               |               |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 74-75            |
| 4/14                    | 19.03-29.03        |                             | 149                        | 7              |                  |      |                         |                      | 61     | 69        |             |                  |               |              | 149           |                         | 61          |               |              |            |          | x                    | x                   | x            | x             | 76-77            |
| 5/14                    | 01.04-23.04        |                             | 138                        | 8              |                  |      |                         |                      |        |           |             | 15               | 13            |              |               | 13                      | 13          |               |              | 90         |          | x                    | x                   | x            | x             | 78-79            |
| 6/14                    | 30.04-25.05        |                             | 168                        |                |                  |      |                         |                      |        |           |             | 168              | 3             |              |               | 167                     | 167         |               |              |            |          | x                    | x                   | x            | x             | 80-81            |
| 7/14                    | 16.06-27.06        |                             | 142                        |                |                  |      |                         |                      | 84     |           |             |                  |               |              | 110           |                         |             |               |              |            |          | x                    | x                   | x            | x             | 82-83            |
| 8/14                    | 28.06-20.07        |                             | 40                         |                |                  |      |                         |                      |        |           |             | 68               | 10            |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 84-85            |
| 9/14                    | 21.07-10.08        |                             | 107                        |                |                  |      |                         |                      |        |           |             | 93               |               |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 86-87            |
| 10/14                   | 10.08-21.08        |                             | 1                          |                |                  |      |                         |                      |        |           |             | 12               | 14            |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 88               |
| 11/14                   | 21.08-11.09        |                             | 108                        |                |                  |      |                         |                      |        |           |             | 103              | 2             |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 89-90            |
| 12/14                   | 12.09-03.10        |                             | 112                        |                |                  |      |                         |                      |        |           |             | 19               | 27            |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 91-92            |
| 13/14                   | 05.10-22.10        |                             |                            |                |                  |      |                         |                      |        |           |             |                  | 23            |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 93               |
| 14/14                   | 23.10-30.10        |                             |                            |                |                  |      |                         |                      |        |           |             |                  | 32            |              |               |                         |             |               |              |            |          | x                    | x                   | x            | x             | 94               |
| 15/14                   | 07.11-07.12        |                             | 380                        |                |                  |      |                         |                      |        |           |             | 18               | 12            | 3            |               |                         |             |               |              | 19         |          | x                    | x                   | x            | x             | 95-96            |
|                         |                    |                             |                            |                |                  |      |                         |                      |        |           |             |                  |               |              |               |                         |             |               |              |            |          |                      |                     |              |               |                  |
|                         |                    |                             |                            |                |                  |      |                         |                      |        |           |             |                  |               |              |               |                         |             |               |              |            |          |                      |                     |              |               |                  |
| Total:                  |                    | 9                           | 1563                       |                |                  |      |                         | 9                    | 145    | 69        |             | 522              | 180           | 3            | 330           | 180                     | 241         |               |              | 19         | 90       |                      |                     |              |               |                  |















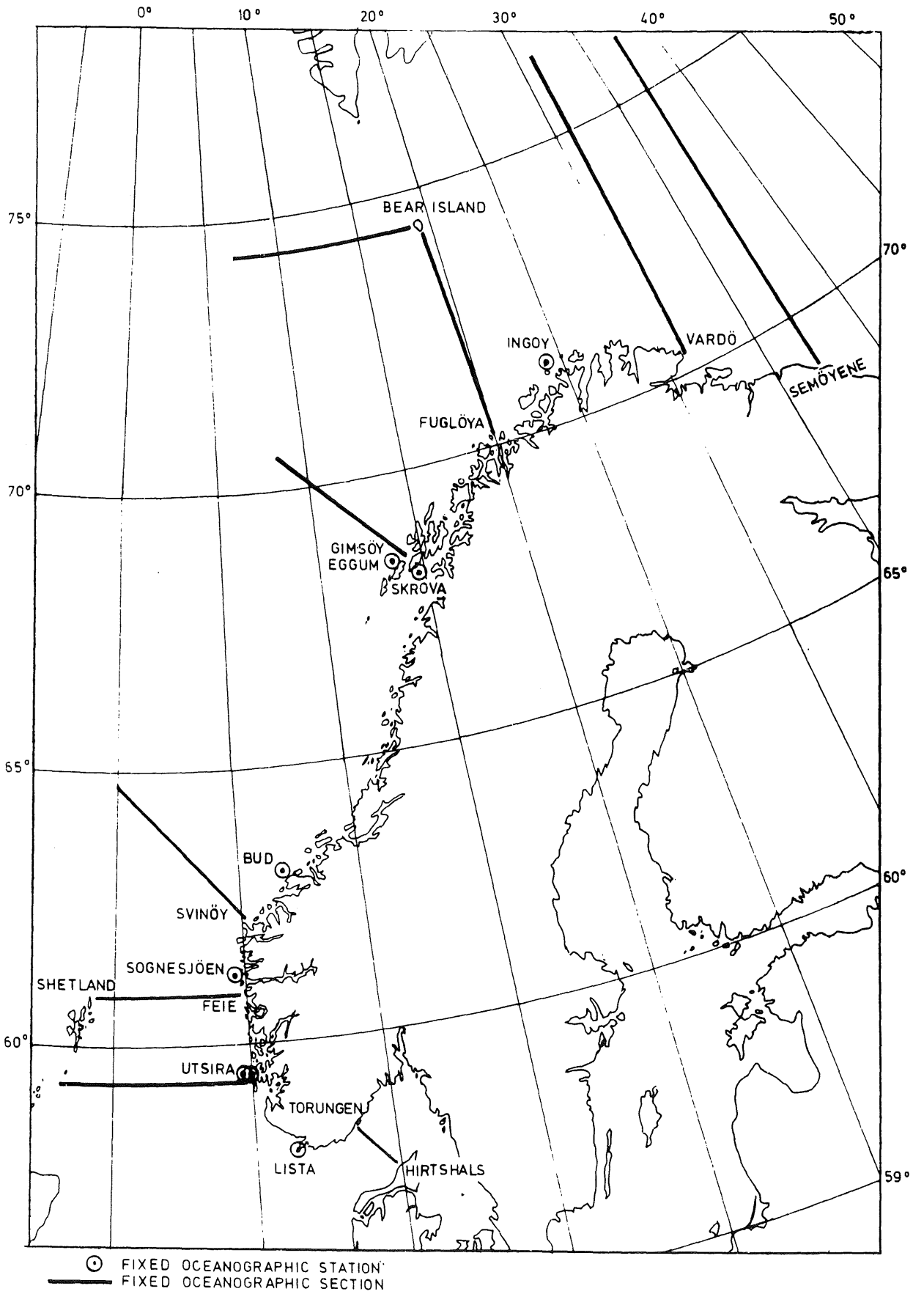


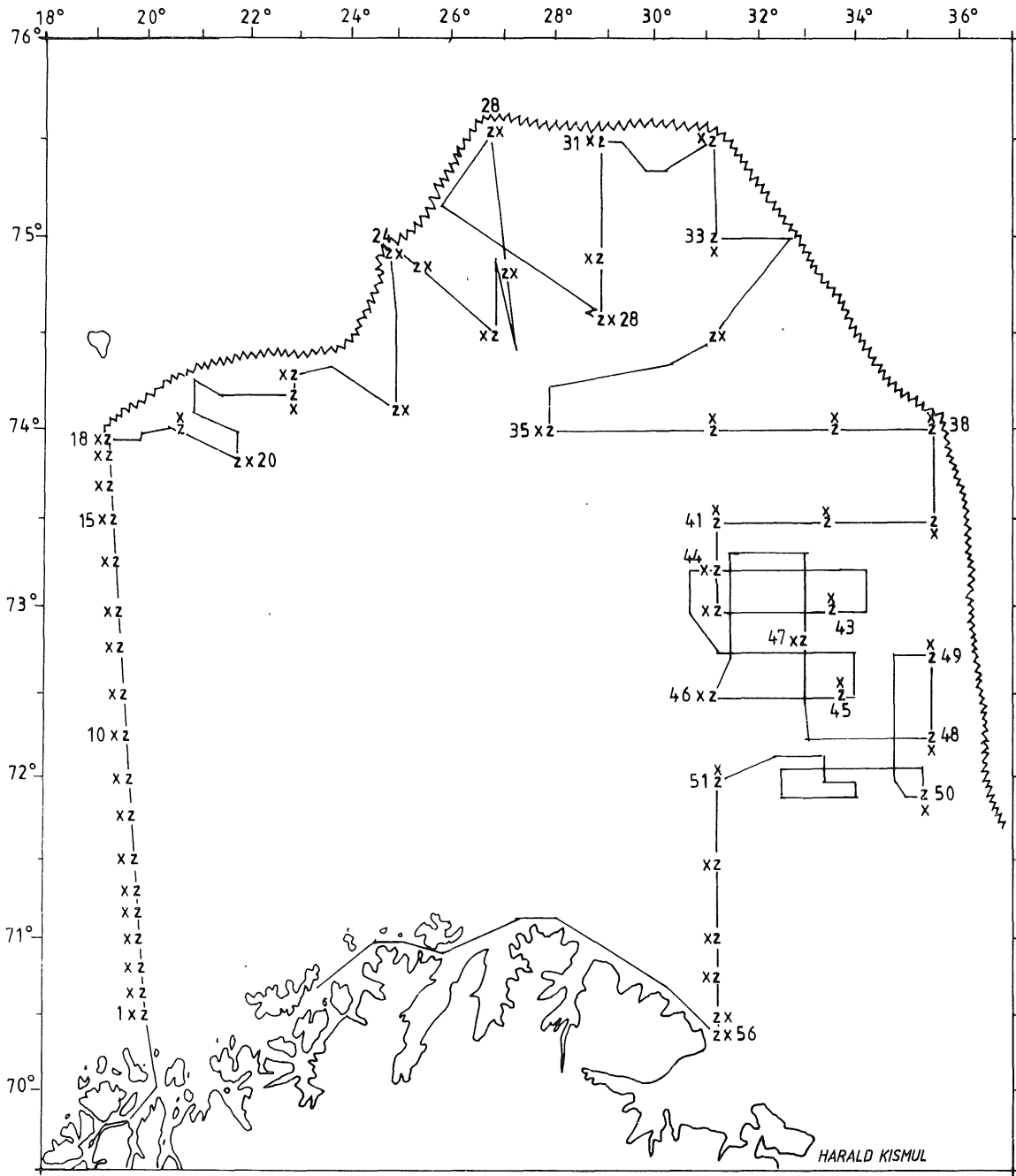
| FIXED<br>OCEANOGRAPHIC<br>STATIONS | YEAR: 1989    |               |               |               |               |                 |             |                   |                |               |                |             |       |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------|-------------------|----------------|---------------|----------------|-------------|-------|
|                                    | JAN.          | FEB.          | MAR.          | APR.          | MAY           | JUN.            | JUL.        | AUG.              | SEP.           | OCT.          | NOV.           | DEC.        | TOTAL |
| LISTA<br>N58°01' E06°32'           | 6-24          | 2-9-20<br>28  | 9-20-30       | 10-18<br>27   | 8-16<br>26-   | 5-14<br>24      | 4-12<br>24- | 3-14<br>26        | 5-13<br>23     | 3-12<br>27    | 7-16<br>29     | 20-29       | 35    |
| UTSIRA Y<br>N59°19' E04°48'        |               | 27            | 8-29          | 9-19<br>29    | 9-20<br>31    | 10-20           | 2-15        |                   |                | 18-28         | 8-20-30        | 13-27       | 20    |
| UTSIRA I<br>N59°19' E04°59'        |               | 27            | 8-29          | 9-19<br>29    | 9-20<br>31    | 10-20           | 2-15        |                   |                | 18-28         | 8-20-30        | 13-27       | 20    |
| SOGNESJØEN<br>N61°01,4' E04°50'    |               |               | 1-14-<br>23   | 1-8<br>18-29  | 6-20          | 3-12<br>24      | 11-22       | 8-19<br>26        | 2-15           | 7-28          | 18             | 9           | 23    |
| BUD<br>N62°56' E06°47'             | 4-20          | 8-22          | 8-20          | 1-14-<br>27   | 11-25         | 15-28           | 12-22       | 10-23             | 4-19           | 4-17<br>30    | 15-29          | 14          | 25    |
| SKROVA<br>N68°07,5' E14°39'        | 4-11<br>18-24 | 8-14<br>22-28 | 9-16<br>22-30 | 6-13<br>20-27 | 5-11<br>20-27 | 2-9<br>15-23-30 | 8-13-<br>21 | 3-11-<br>18-24-31 | 9-15-<br>23-30 | 7-14<br>28    | 3-10-<br>16-24 | 7-14-<br>22 | 47    |
| EGGUM<br>N68°22,8' E13°39'         |               |               |               | 15-29         | 9-20          | 1-11-24         | 5-15-<br>25 | 7-18-<br>28       | 8-18           | 2-12-<br>23   | 6-16           | 6-17        | 22    |
| INGØY<br>N71°08' E24°01'           | 8-19          | 1-15<br>28    | 12-26-        | 5-14<br>27    | 11-29         | 10-21           | 2-13-<br>25 | 9-19              | 2-13-<br>21    | 1-9-<br>17-26 | 5-4-<br>20-30  |             | 30    |





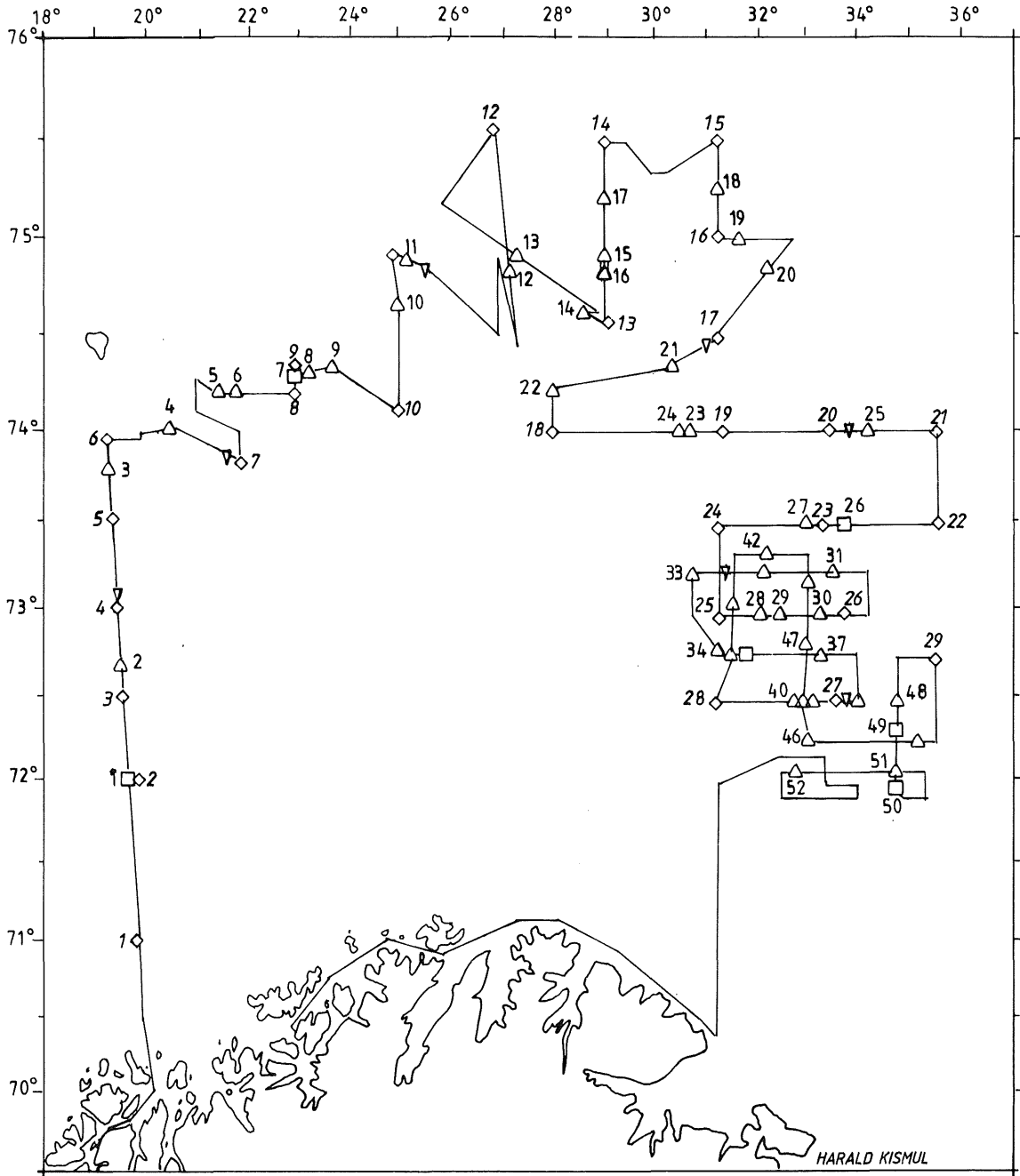
| FIXED<br>OCEANOGRAPHIC<br>SECTION | YEAR 1989            |                 |               |      |       |                |                |                    |       |                |       |       |       |
|-----------------------------------|----------------------|-----------------|---------------|------|-------|----------------|----------------|--------------------|-------|----------------|-------|-------|-------|
|                                   | JAN.                 | FEB.            | MAR.          | APR. | MAY   | JUN.           | JUL.           | AUG.               | SEP.  | OCT.           | NOV.  | DEC.  | TOTAL |
| TORUNGEN-HIRTSHALS                | 1/16<br>2/16<br>3/16 | 5/16<br>6/16    | 8/16<br>10/16 |      | 13/16 | 15/16<br>19/16 | 21/16<br>23/16 | 24/16              | 26/16 | 28/16<br>30/16 |       | 31/16 | 17    |
| UTSIRA - WEST                     |                      |                 |               |      |       | 7/14           |                |                    |       |                | 15/14 |       | 2     |
| FEIE - SHETLAND                   | 1/14                 |                 |               |      | 6/14  |                | 8/14           |                    |       |                | 15/14 |       | 4     |
| SVINØYA - NORTH/WEST              |                      |                 |               |      |       |                | 9/14<br>10/15  |                    |       |                |       |       | 2     |
| GIMSØYA - NORTH/WEST              |                      |                 | 4/15          |      |       |                |                | 10/15              |       |                |       |       | 2     |
| FUGLØYA - NORTH/WEST              | 1/15                 |                 | 4/15          |      | 7/15  |                | 9/15           |                    | 12/11 | 12/14          |       |       | 6     |
| WARDØ - NORTH                     | 1/15                 |                 | 4/11          |      |       | 8/11           | 9/11           | 12/11              |       | 14/15          |       |       | 6     |
| SEMØYA - WEST                     |                      | 2/15            |               |      |       |                |                | 12/11              |       |                |       |       | 2     |
| BJØRNØYA - WEST                   |                      |                 |               |      |       |                |                |                    |       | 12/14          |       |       | 1     |
| SHIPS NAME                        | NO.                  | SHIPS NAME      |               |      |       |                | NO.            | CRUSE NO./SHIP NO. |       |                |       |       |       |
| "G.O.SARS"                        | 15                   | "G.M. DANNEVIG" |               |      |       |                | 16             | 1/15               |       |                |       |       |       |
| "MICHAEL SARS"                    | 11                   | "JOHAN RUUD"    |               |      |       |                | 8              |                    |       |                |       |       |       |
| "ELDJARN"                         | 14                   | "HÅKON MOSBY"   |               |      |       |                | 1              |                    |       |                |       |       |       |



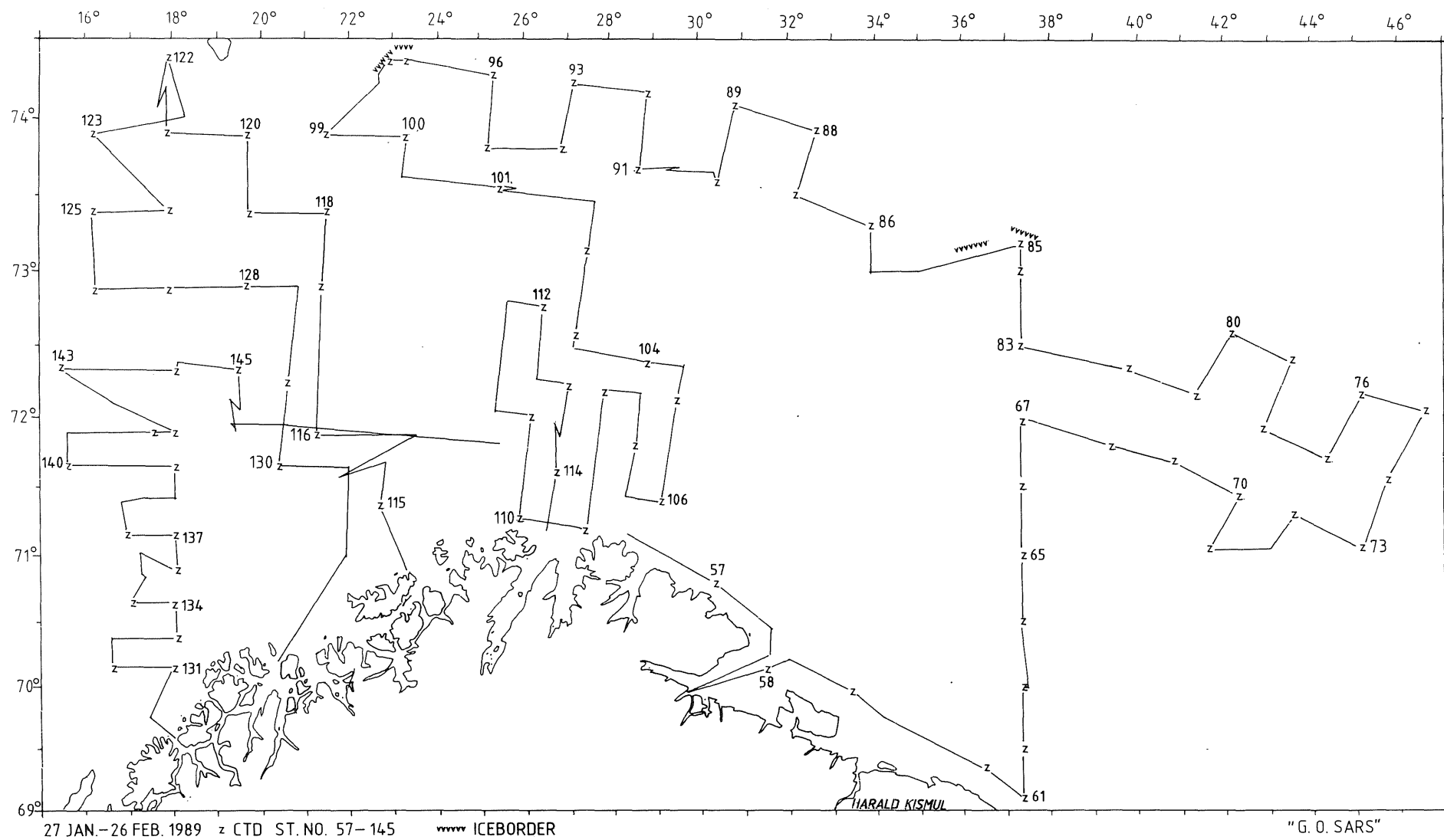


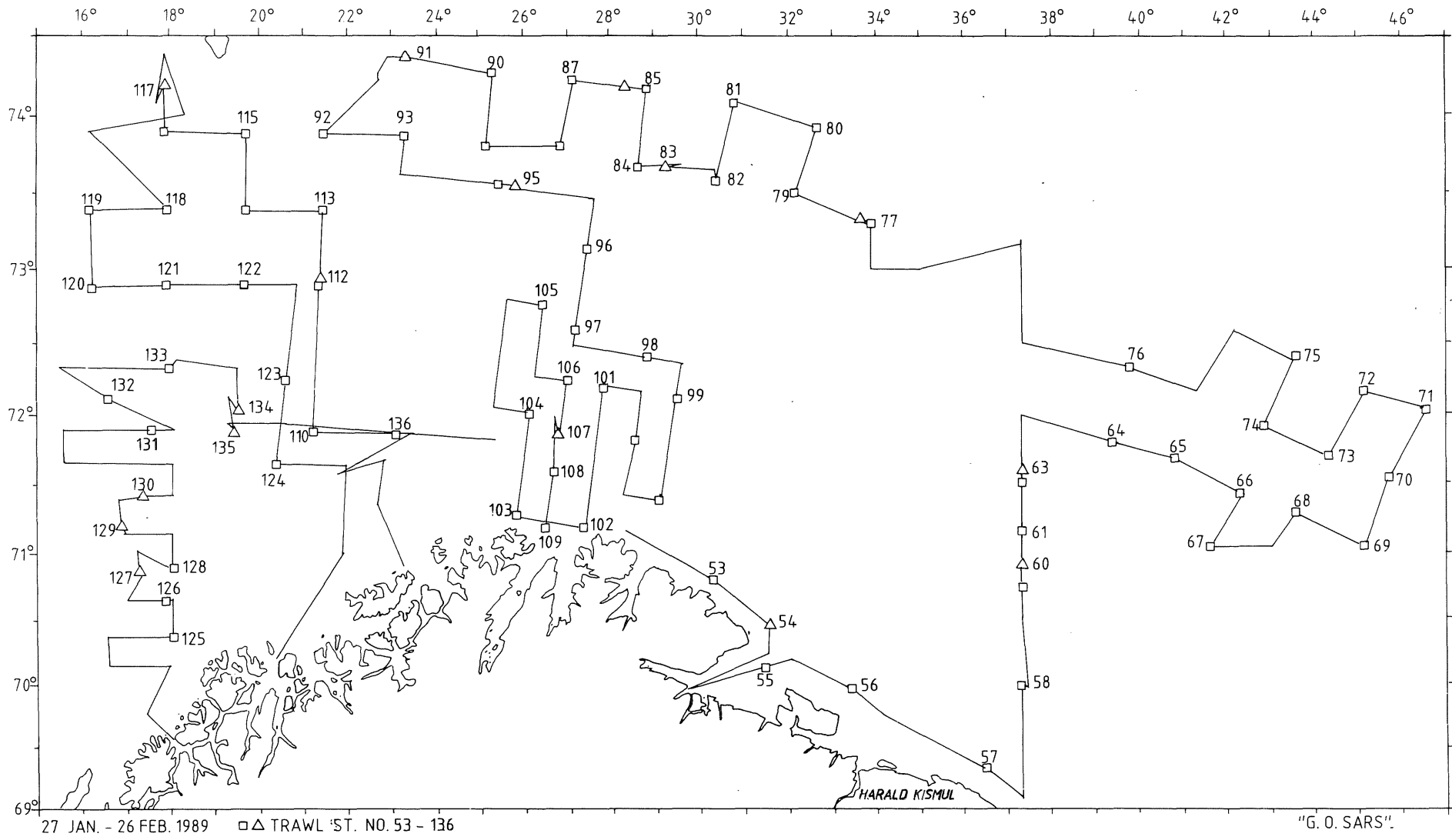
10-26 JAN. 1989 z CTD x COS ST. NO. 1-56 www ICEBORDER

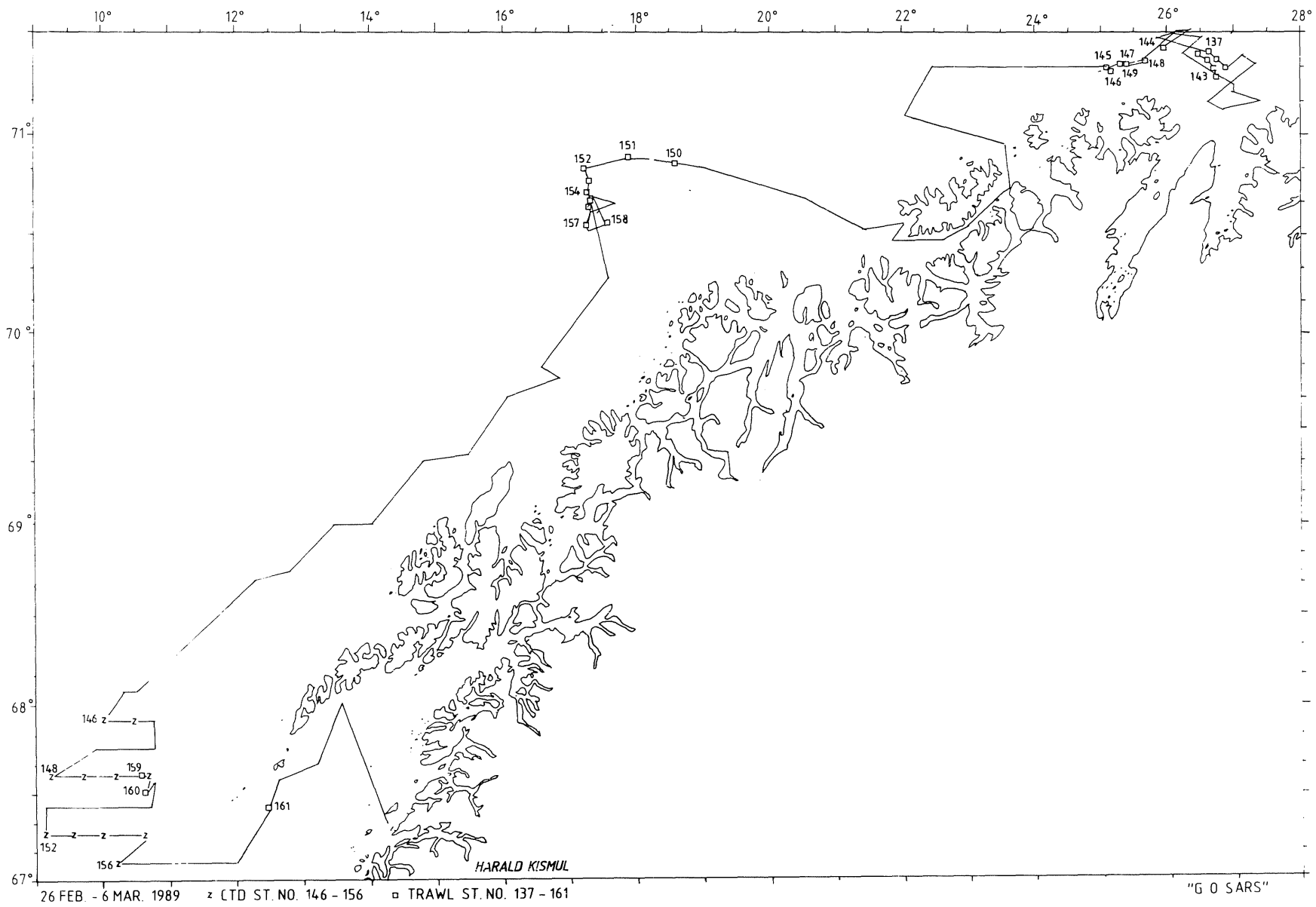
"G.O.SARS"



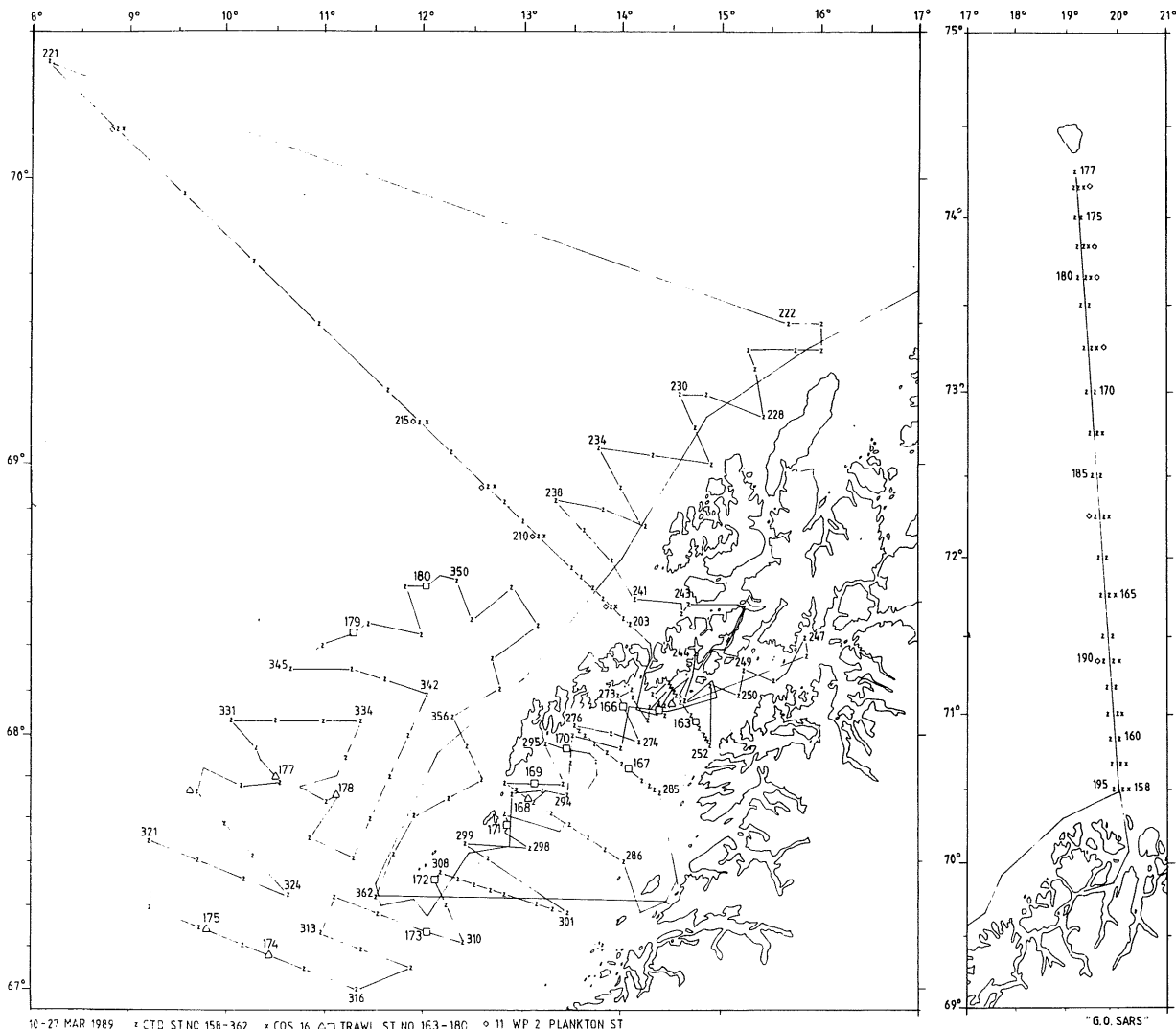
10-26 JAN. 1989  $\triangle$   $\square$  TRAWL ST. NO. 1-52  $\nabla$  7 MOXNESS TRAWL  $\diamond$  PLANKTON ST. NO. 1-29 "G.O. SARS"





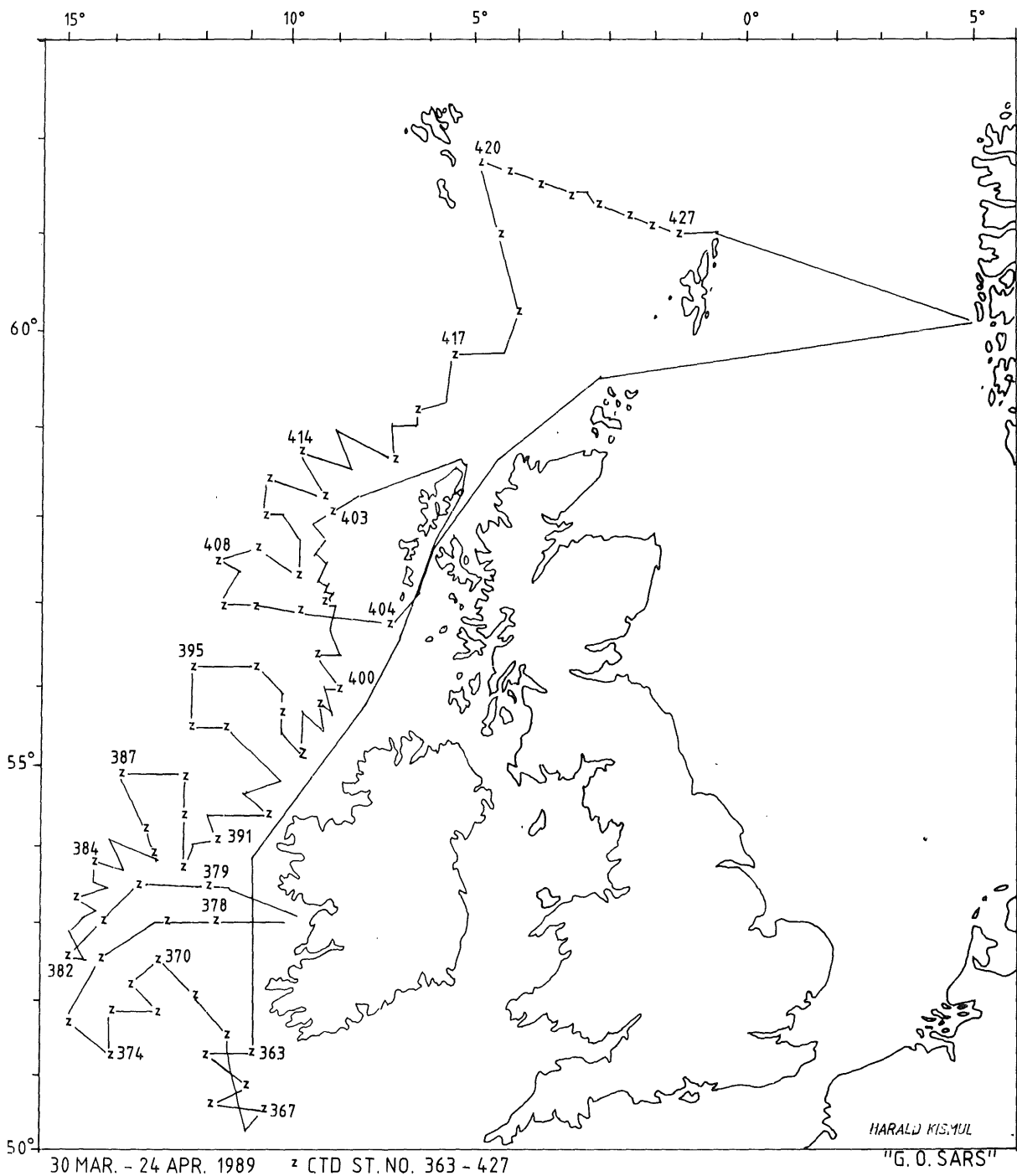


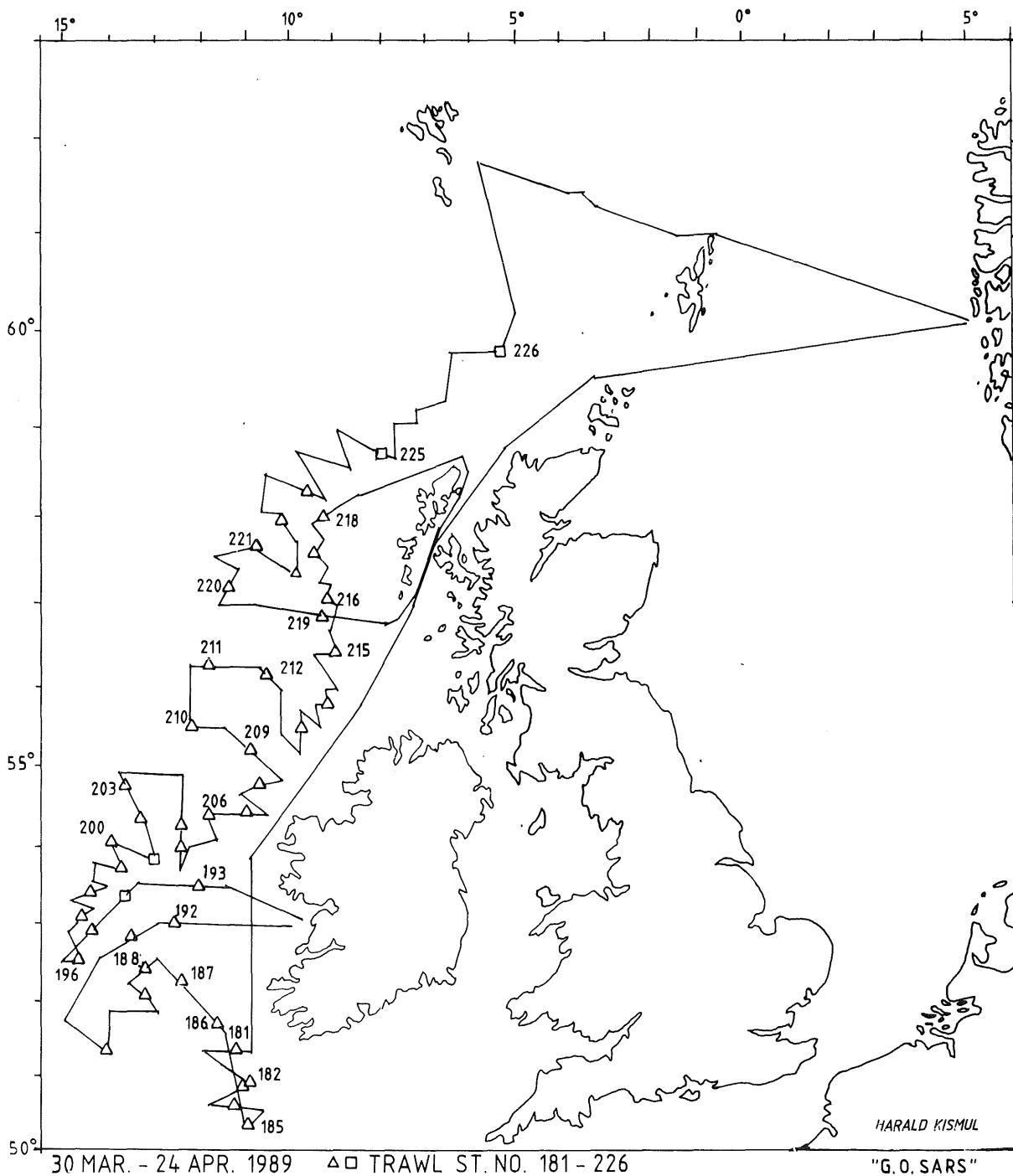


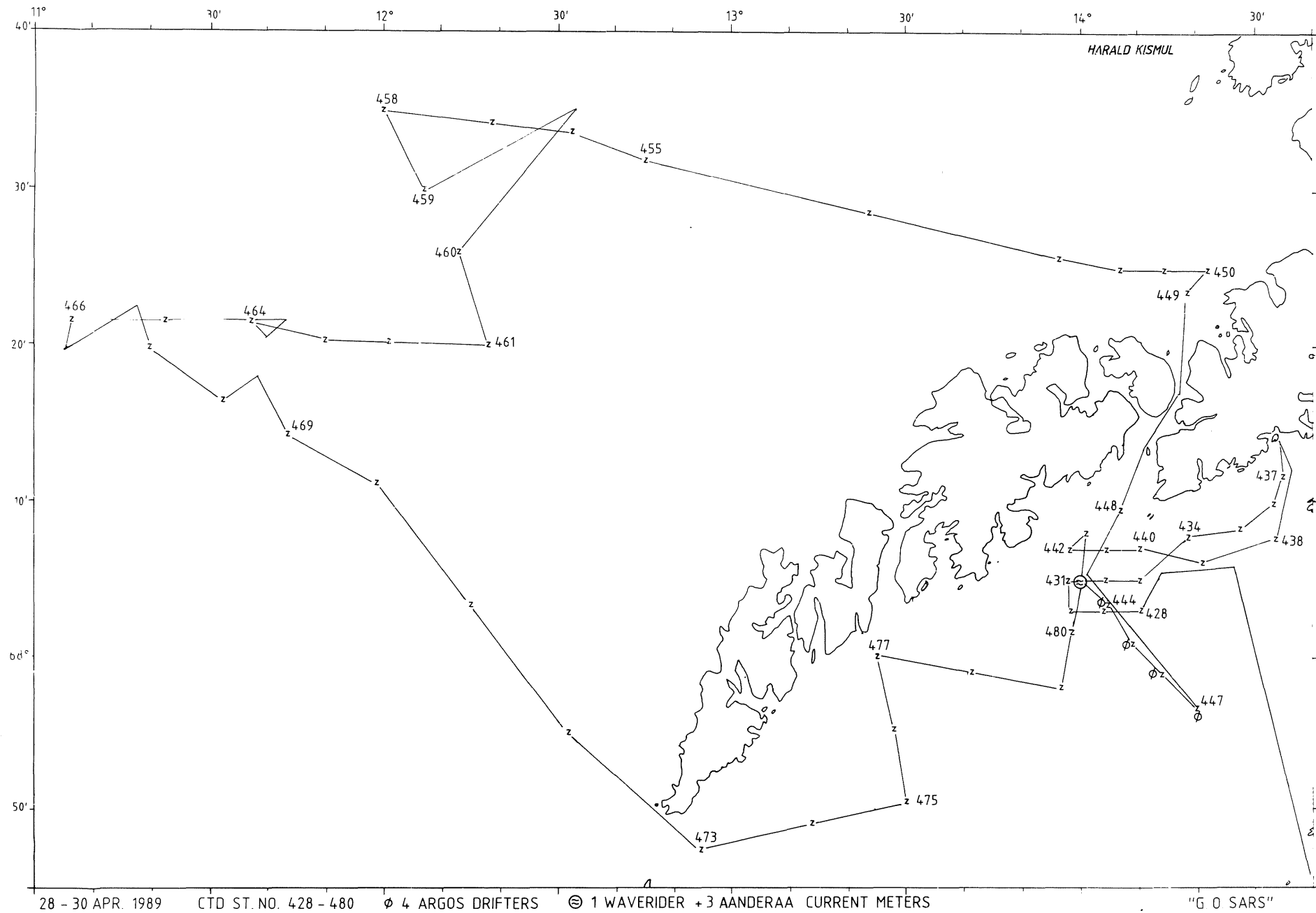


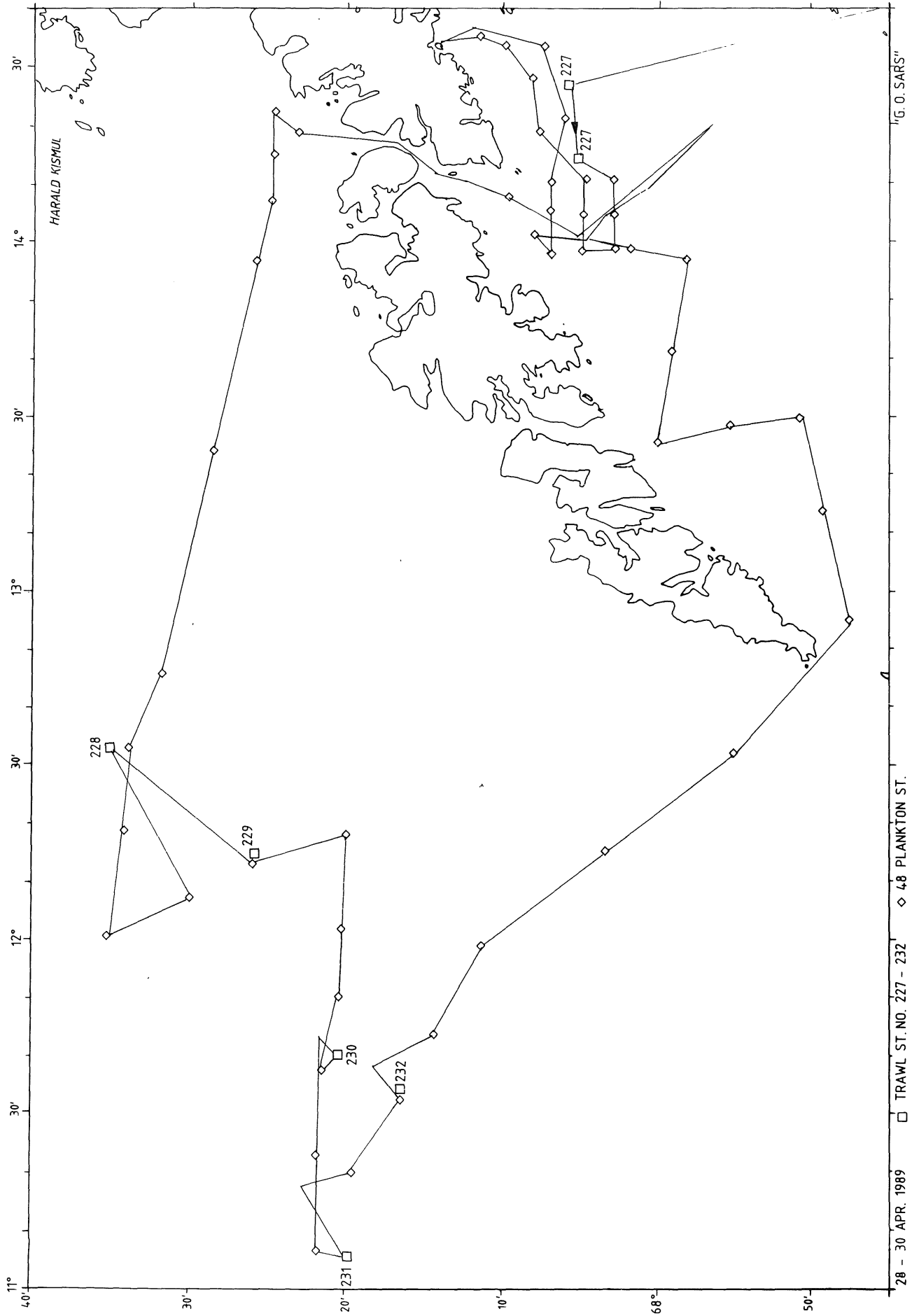
10-27 MAR 1989 \* CTD ST NO 156-362 \* COS 16 Δ□ TRAWL ST NO 163-180 ◇ WP 2 PLANKTON ST

"G.O. SARS"

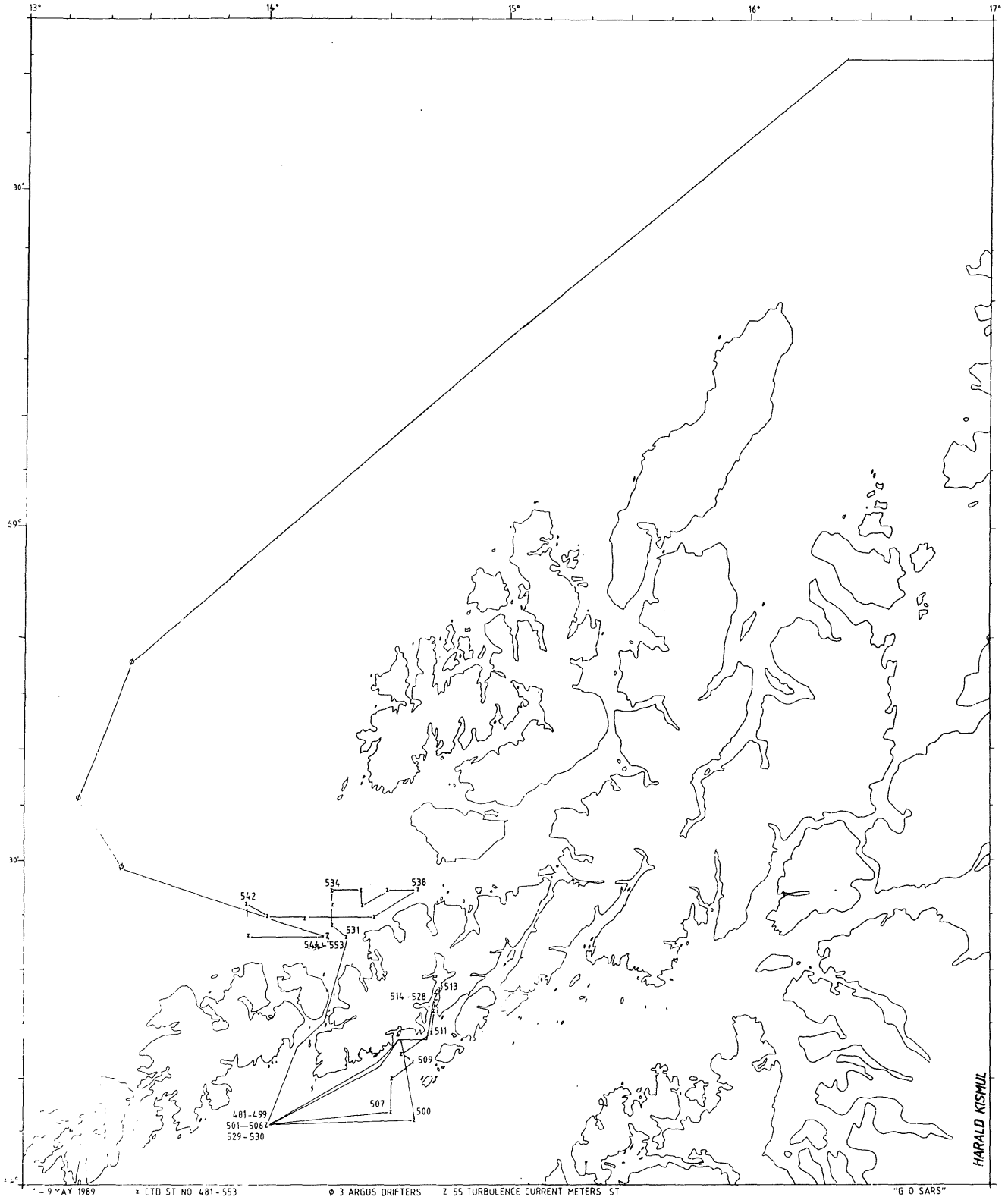


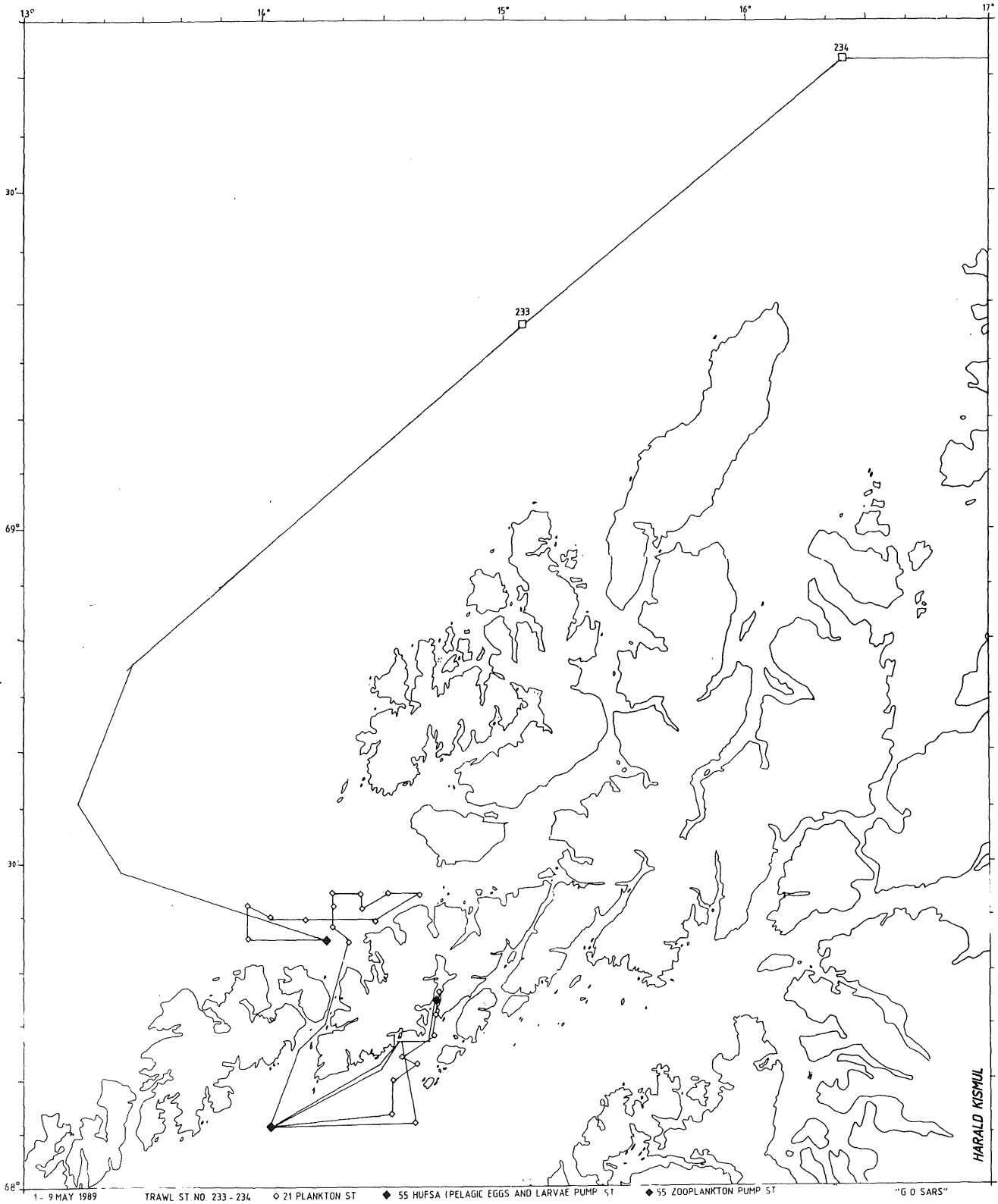






28 - 30 APR. 1989 □ TRAWL ST. NO. 227 - 232 ◇ 48 PLANKTON ST.





HARALD KISMUL

"G O SARS"

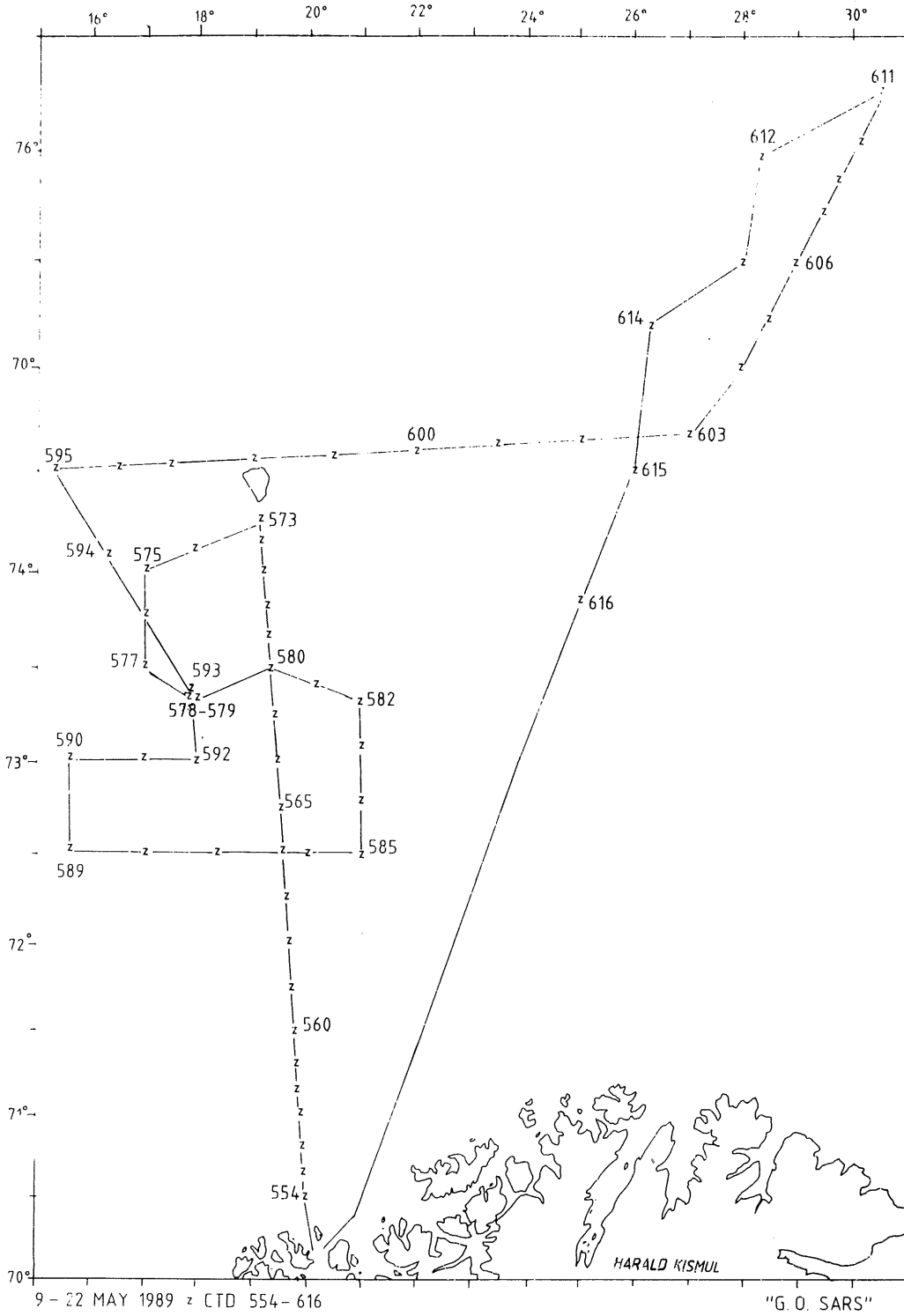
1 - 9 MAY 1989

TRAWL ST. NO 233 - 234

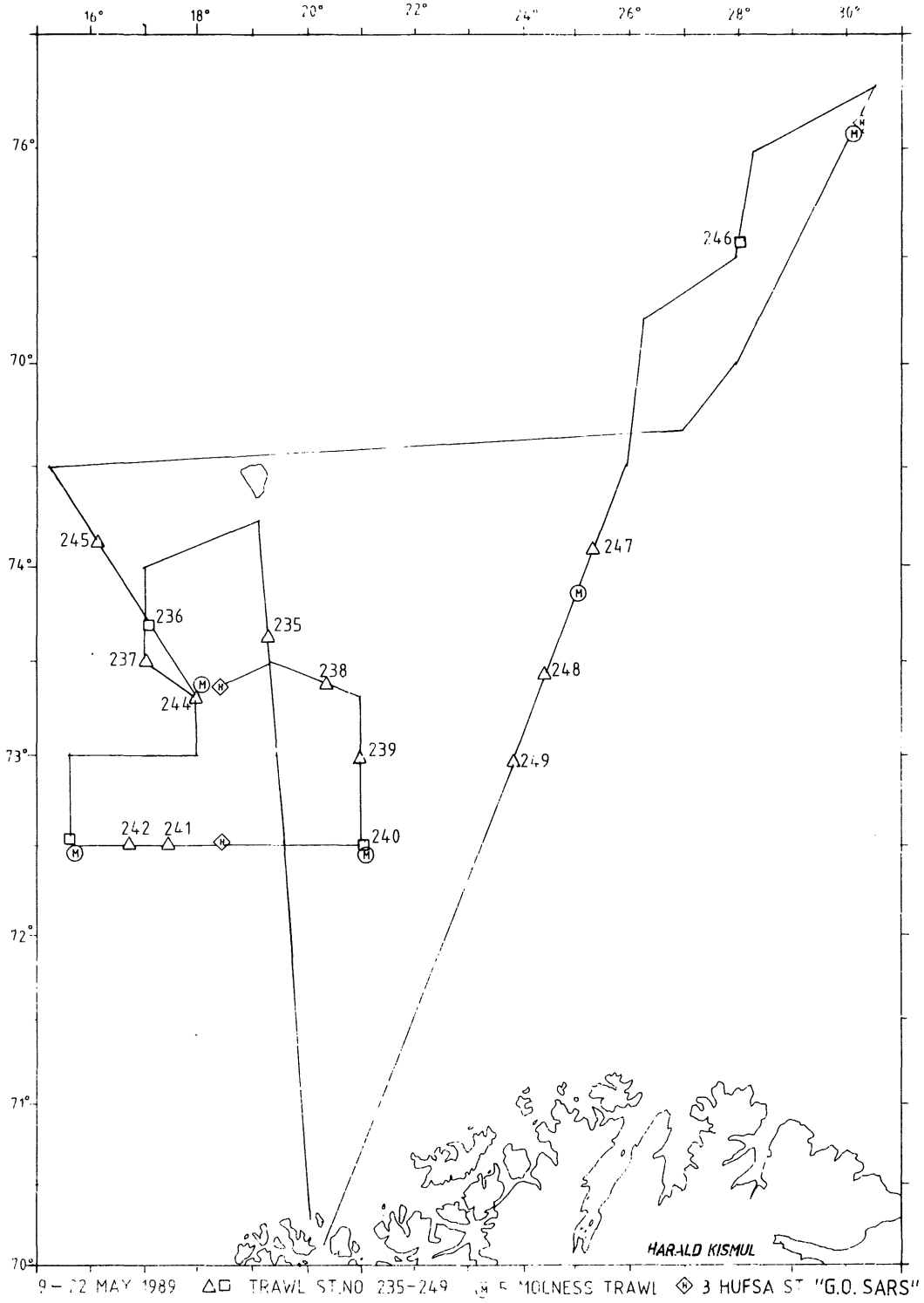
◇ 21 PLANKTON ST

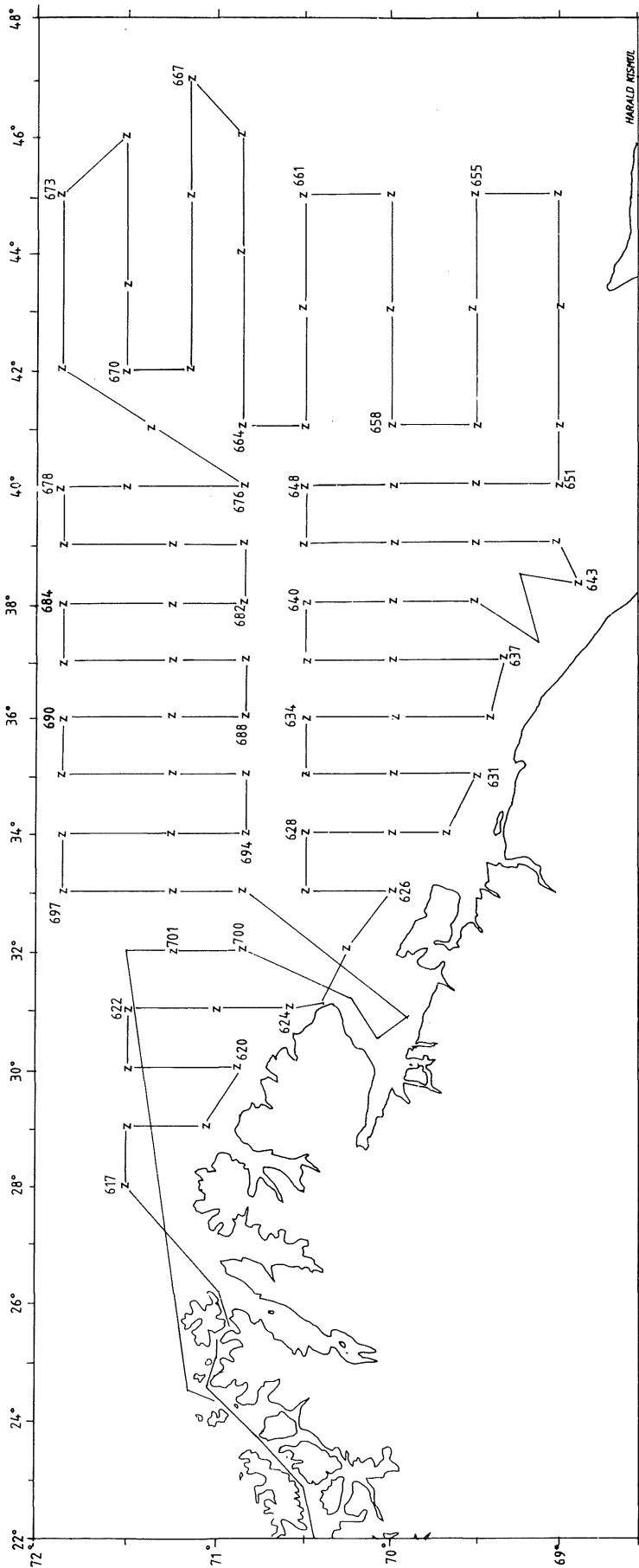
◆ 55 HUFSA (PELAGIC EGGS AND LARVAE PUMP ST)

◆ 55 ZOOPLANKTON PUMP ST

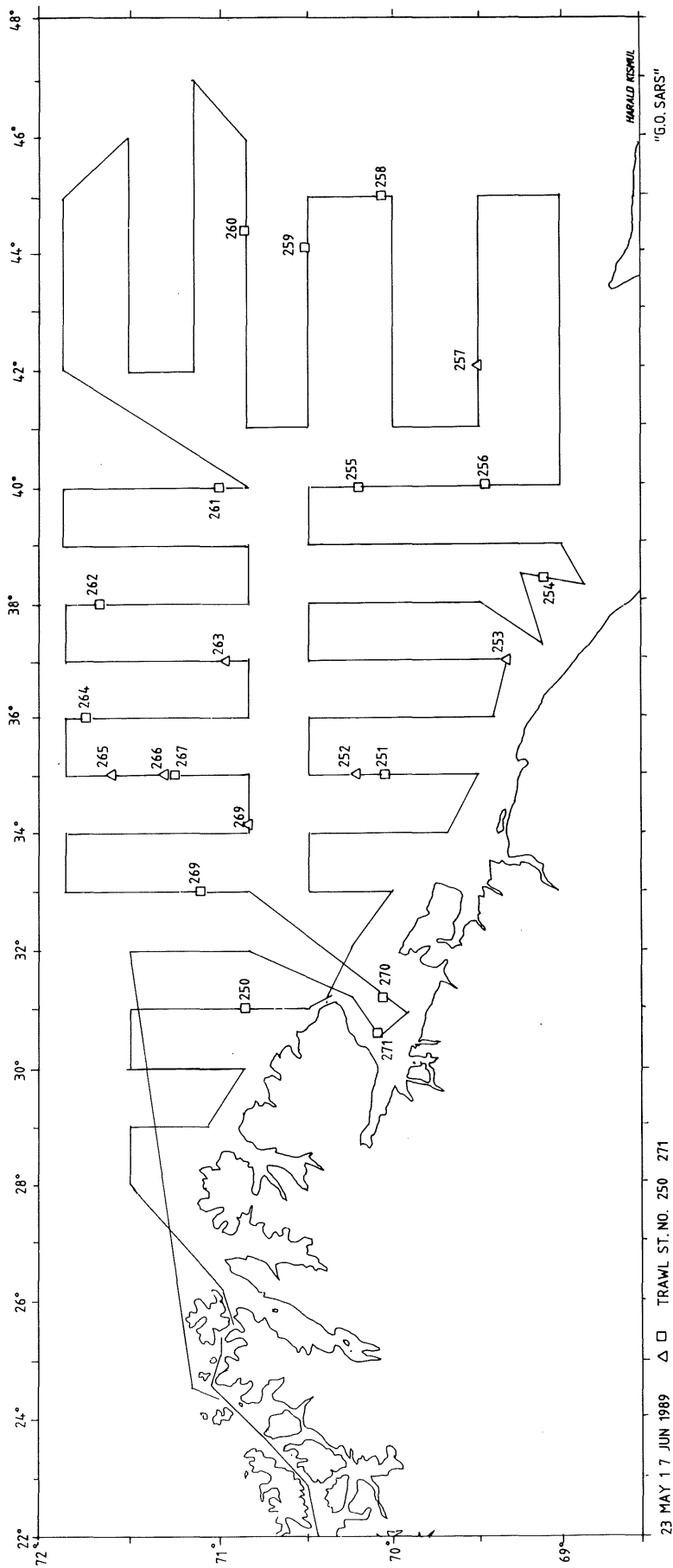


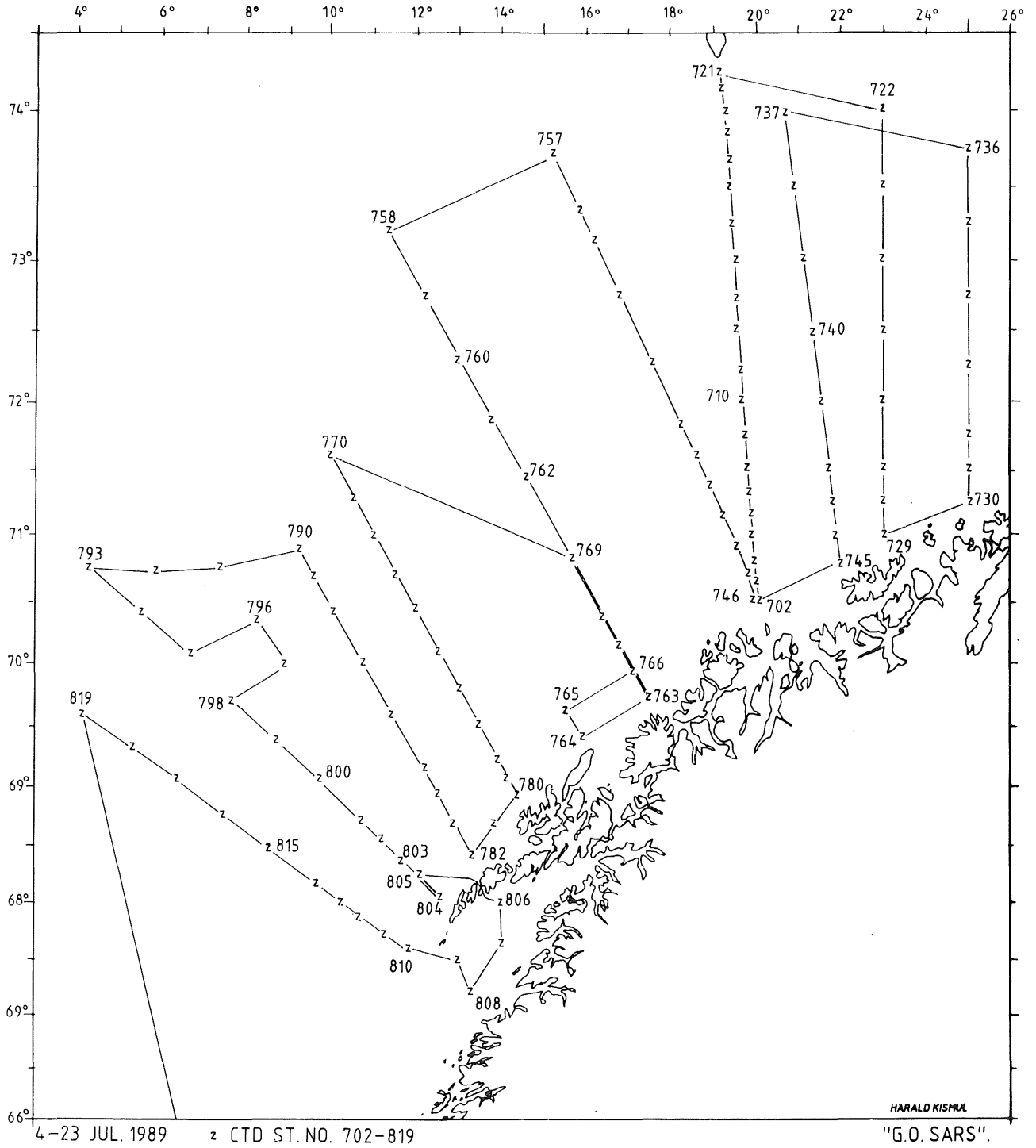


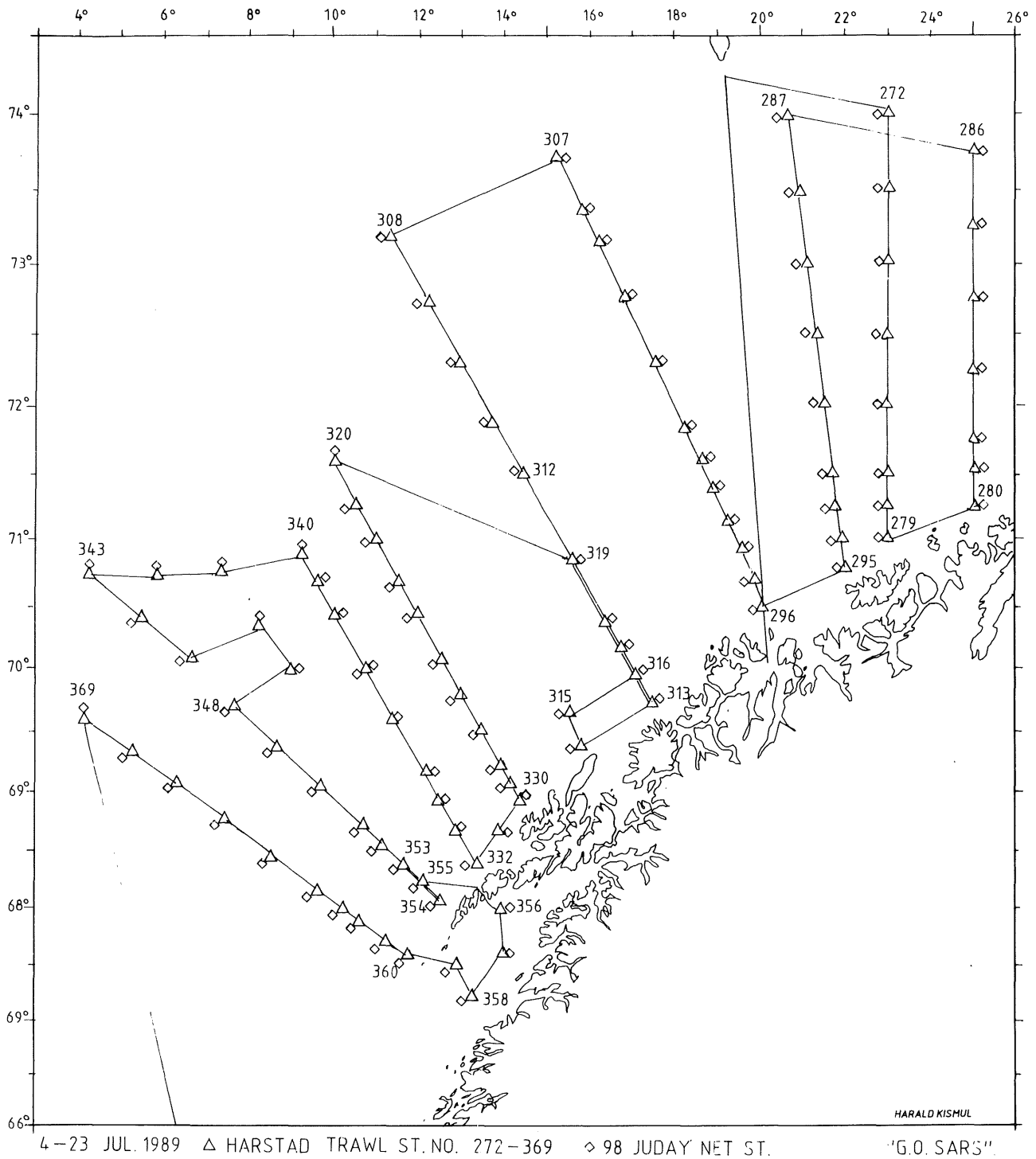


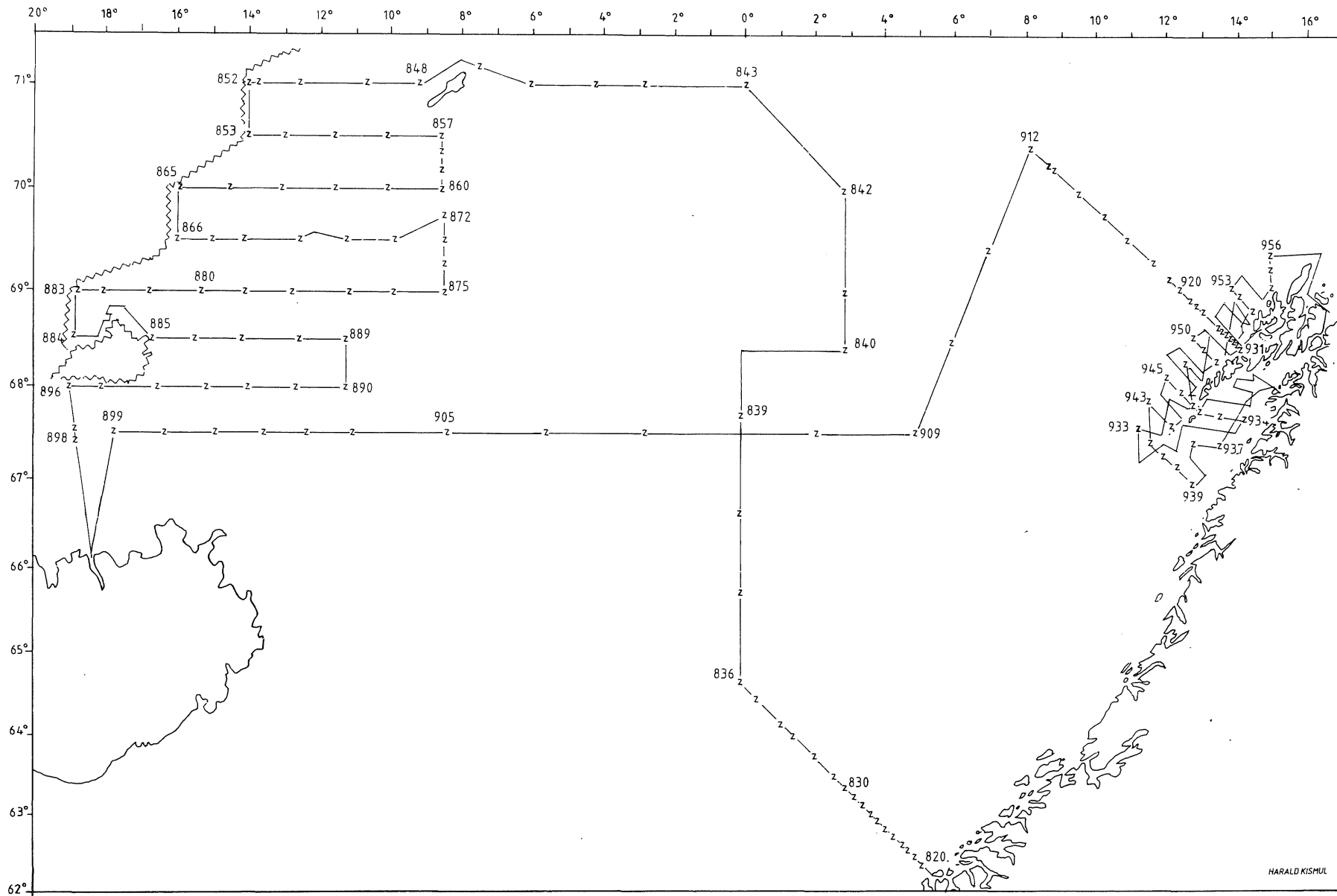


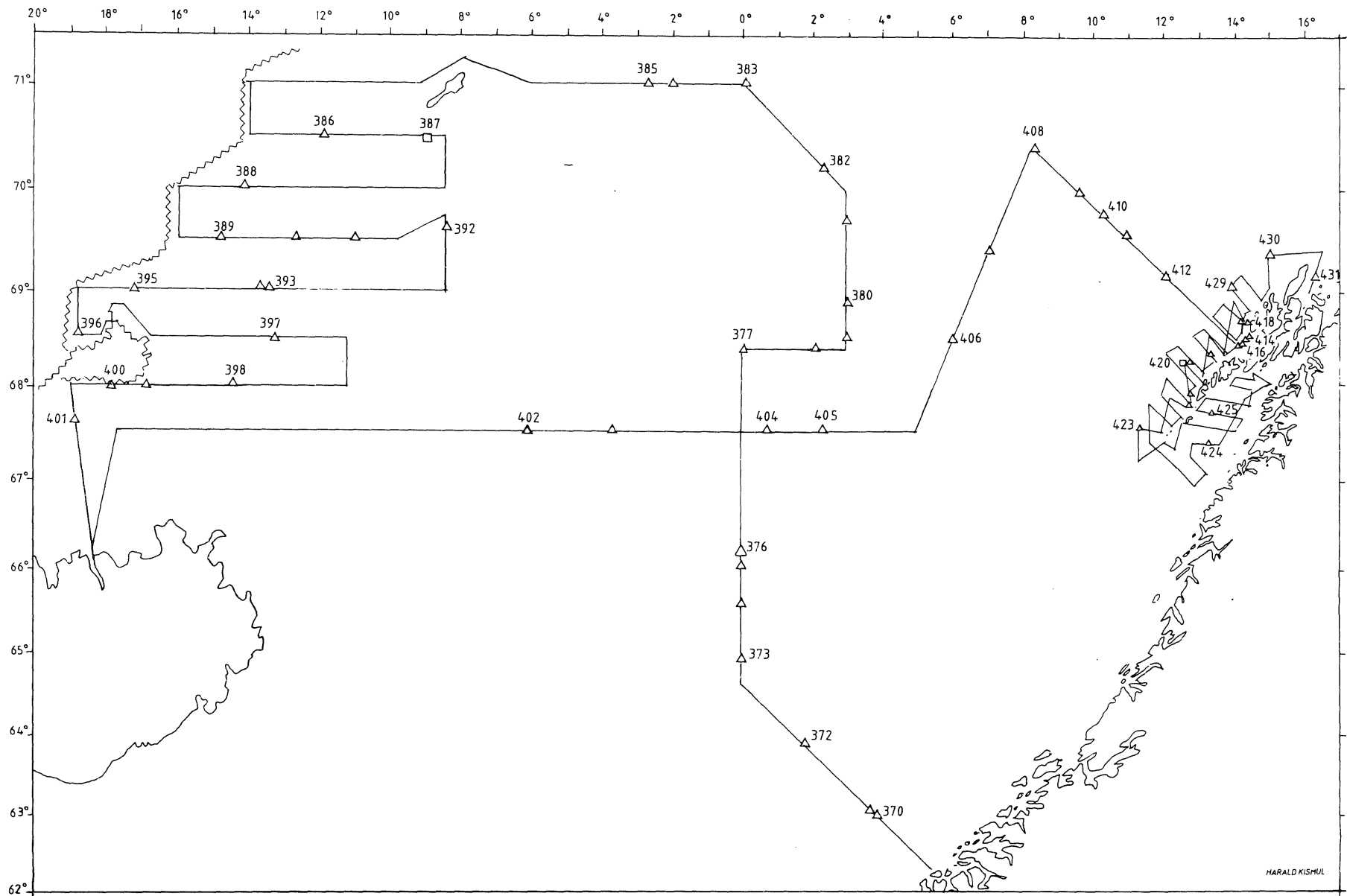
23 MAY - 7 JUN 1989 z CTD ST. NO. 617-701





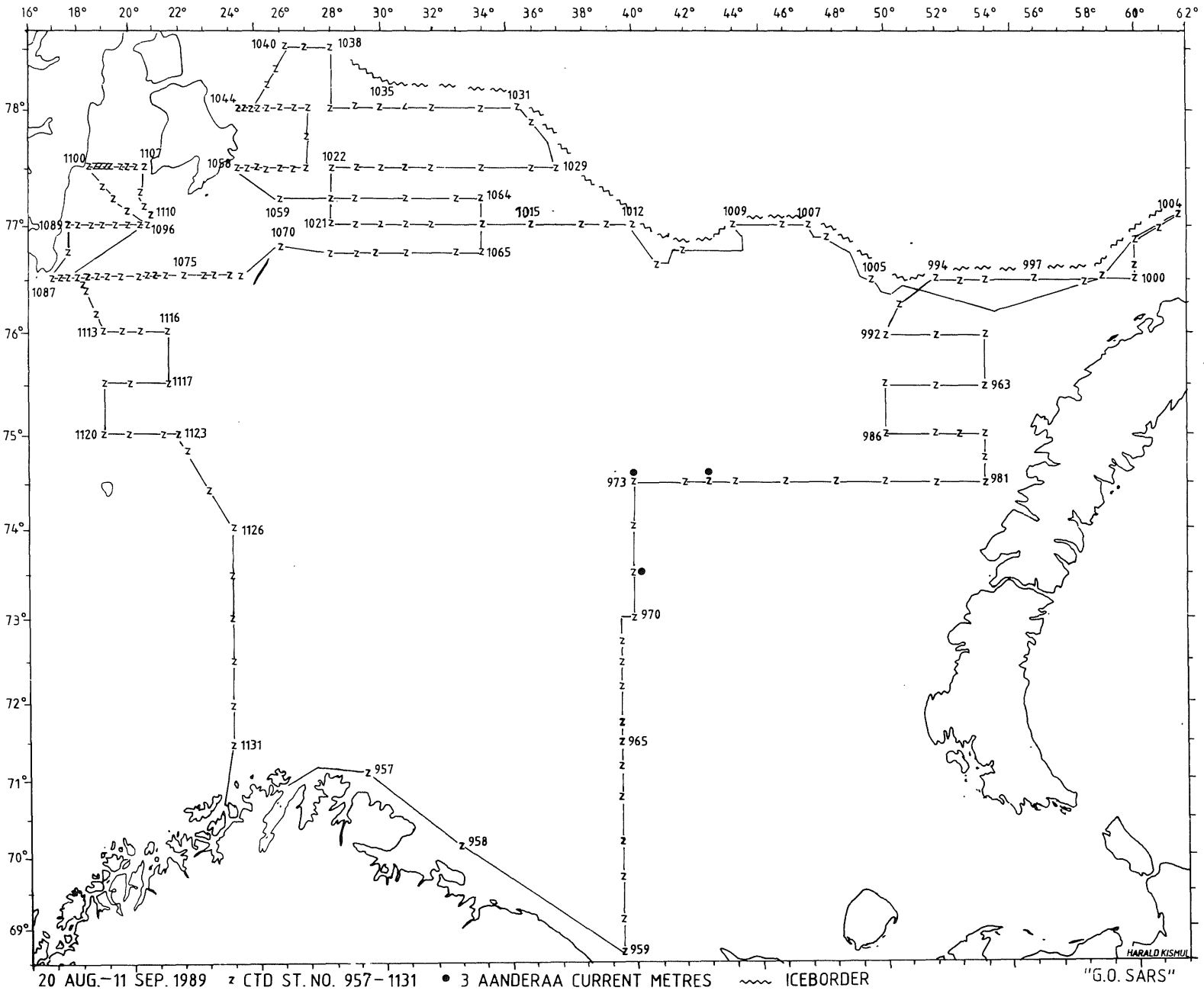




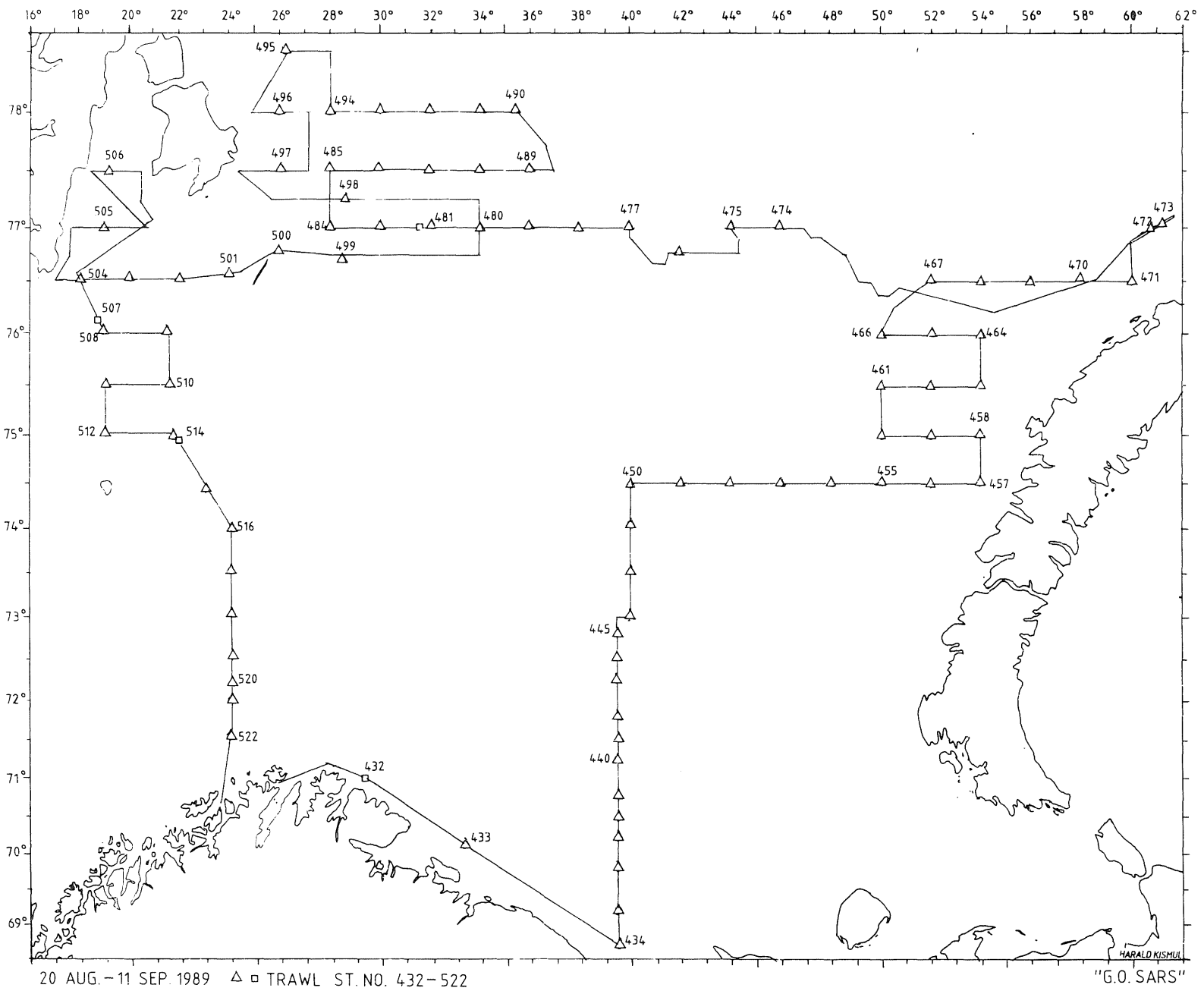


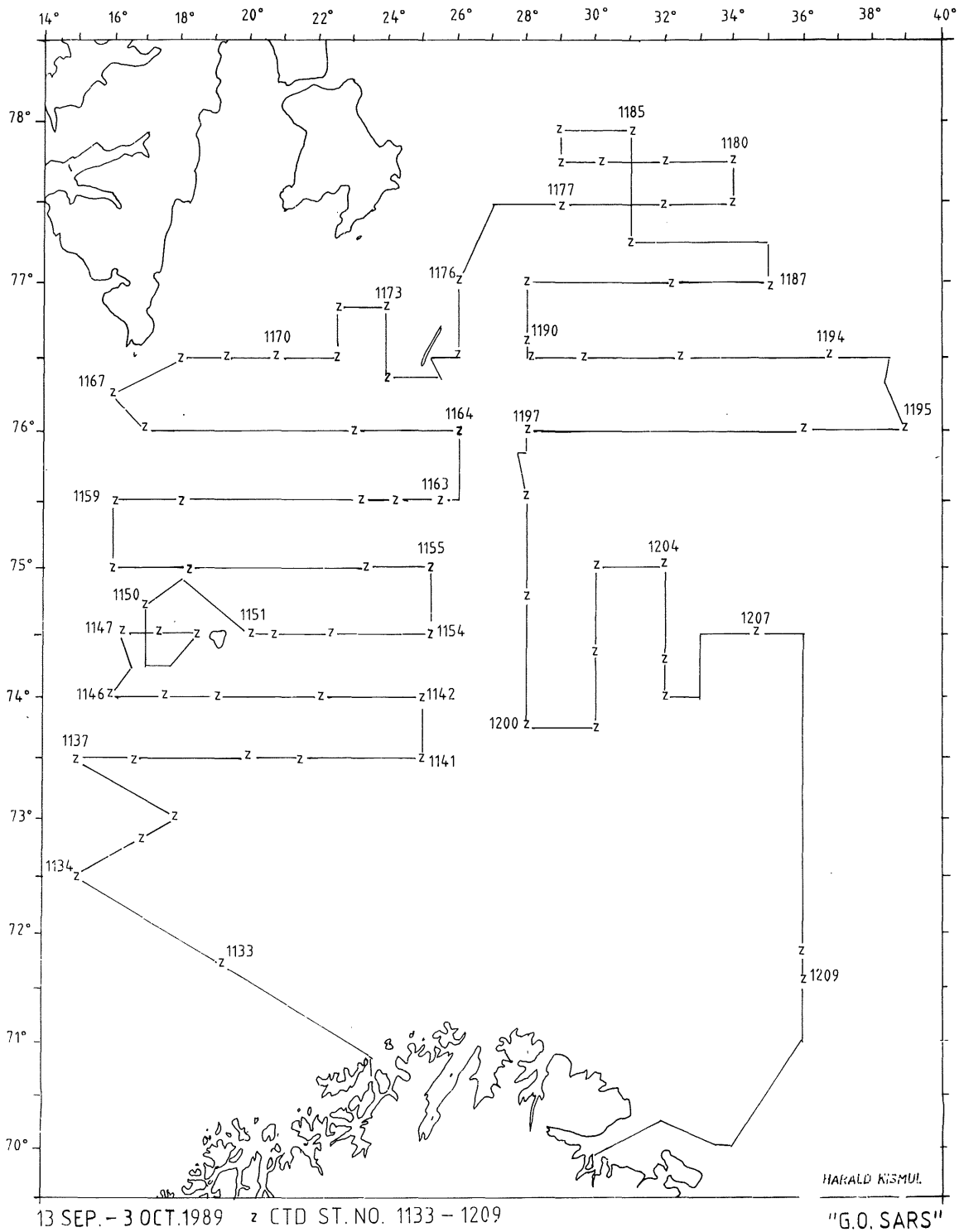
25 JUL.-20 AUG. 1989     $\triangle$   $\square$  TRAWL ST. NO. 370-431     $\sim$  ICEBORDER

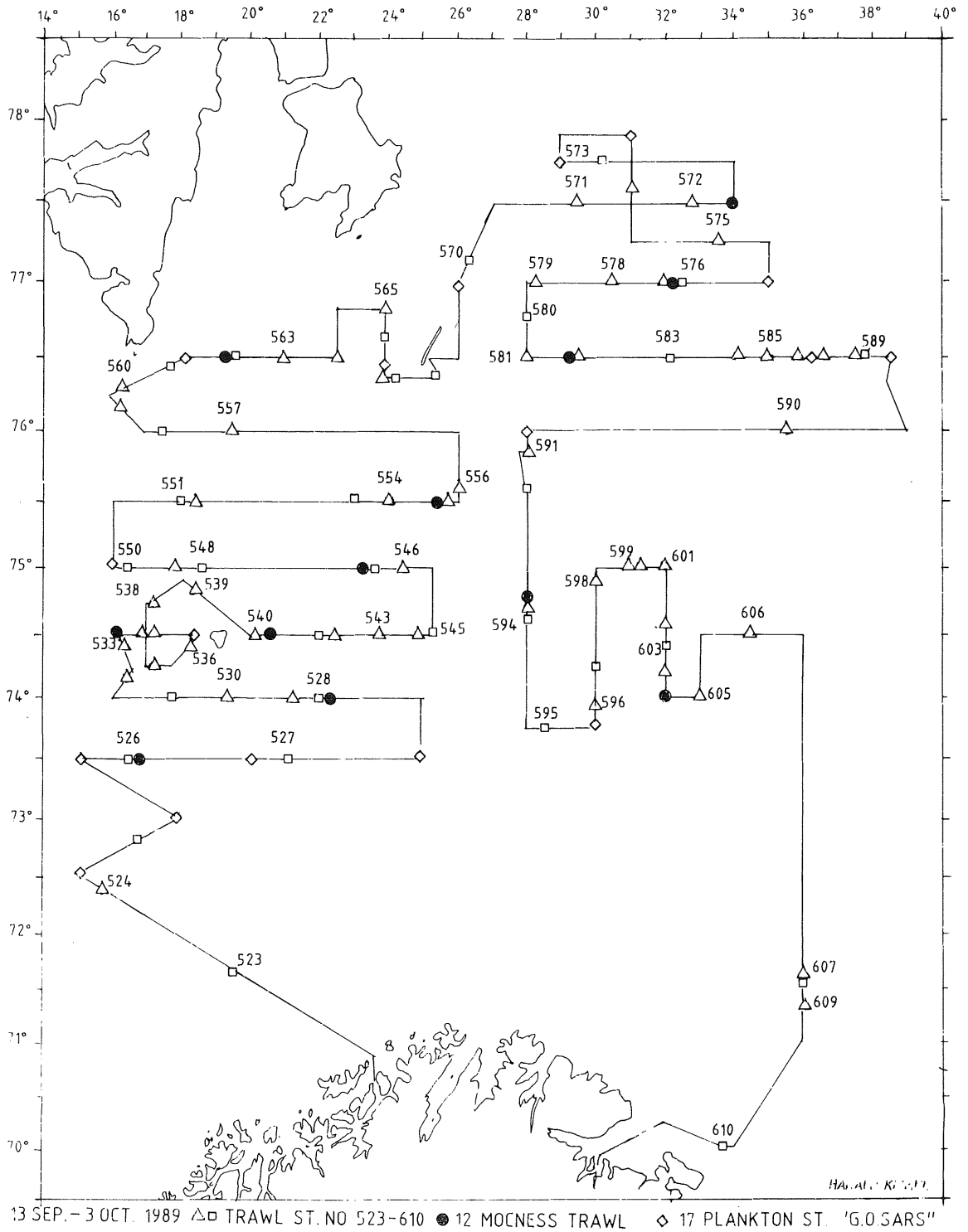
"G.O. SARS"

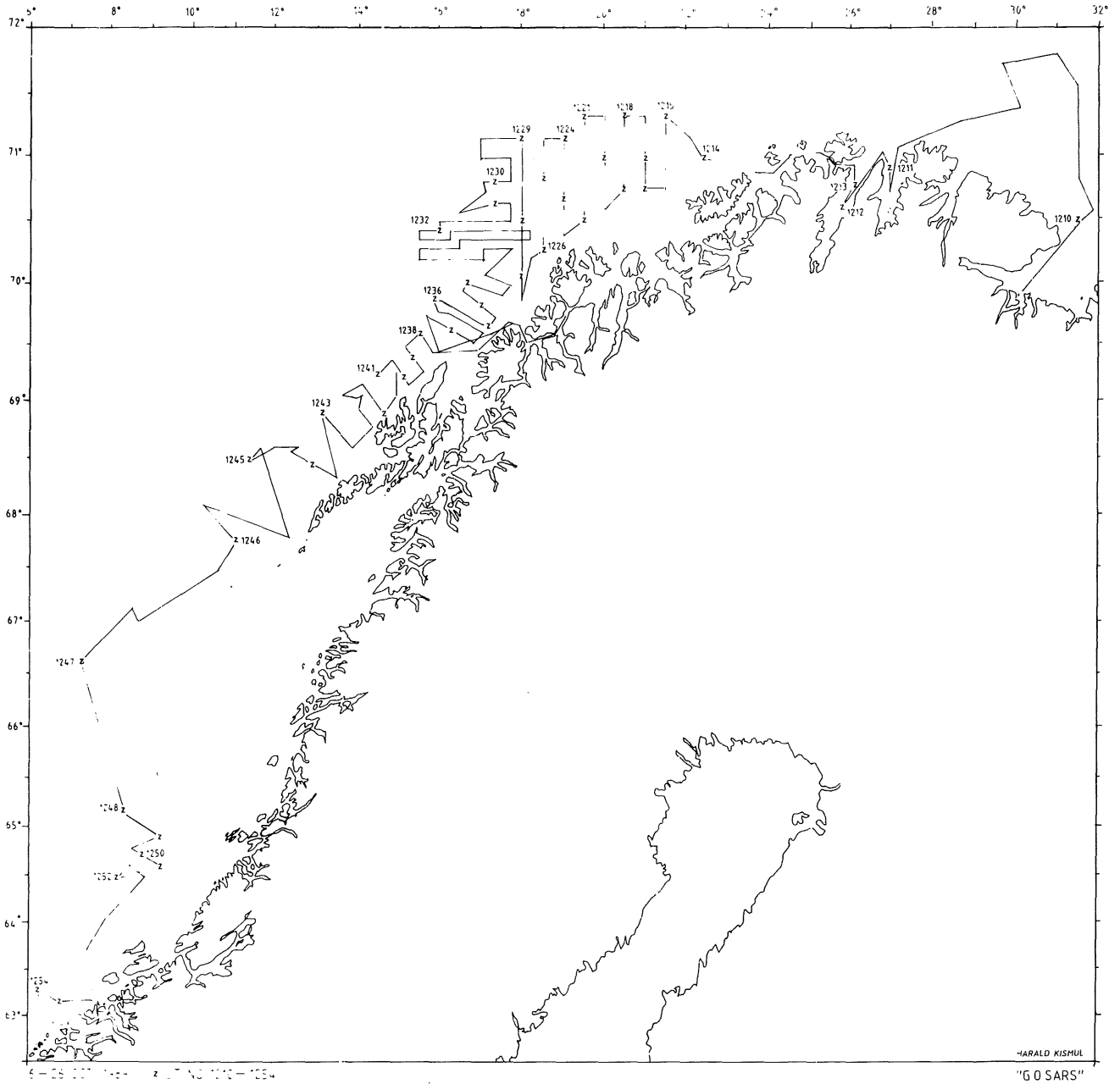


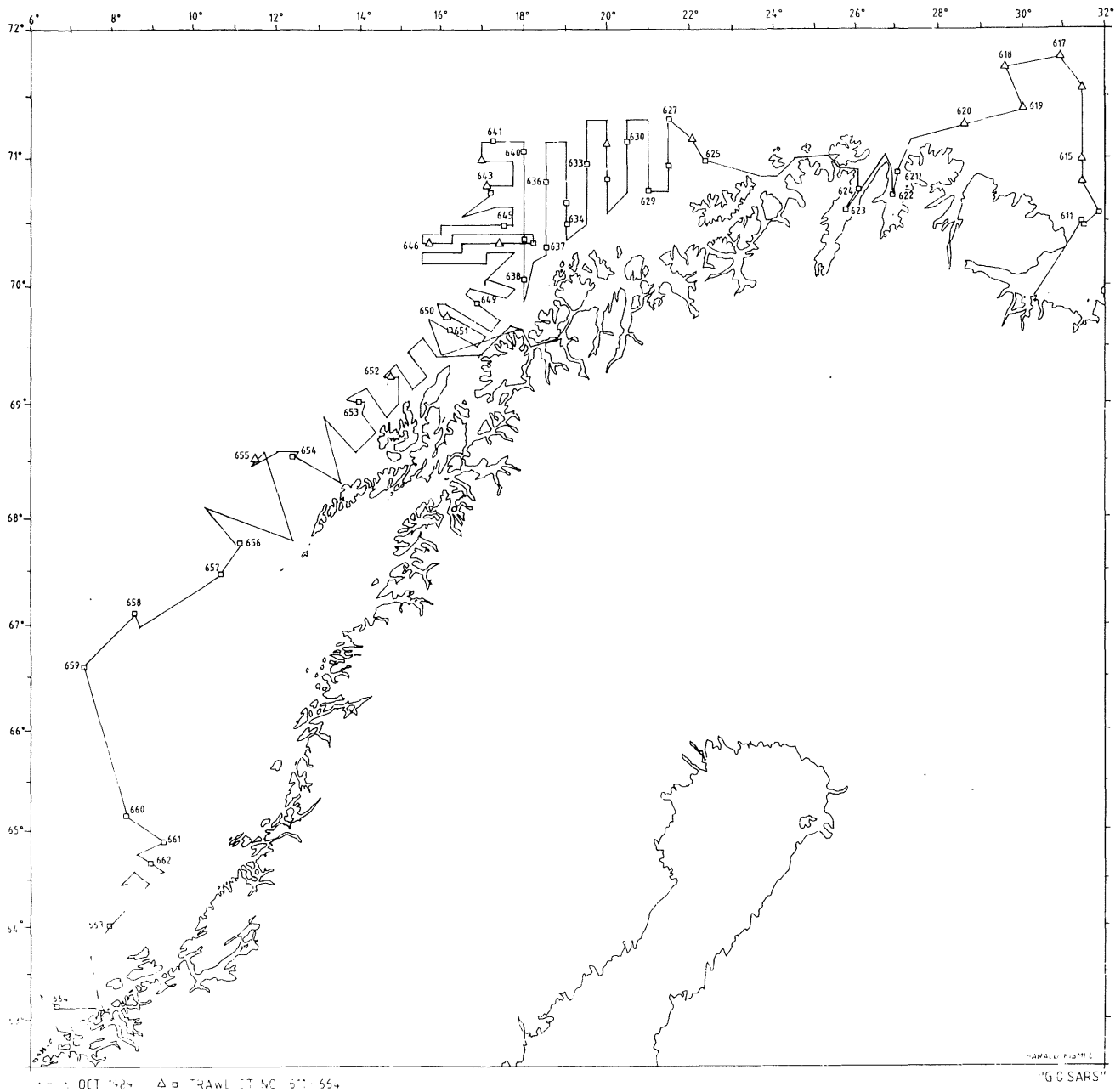


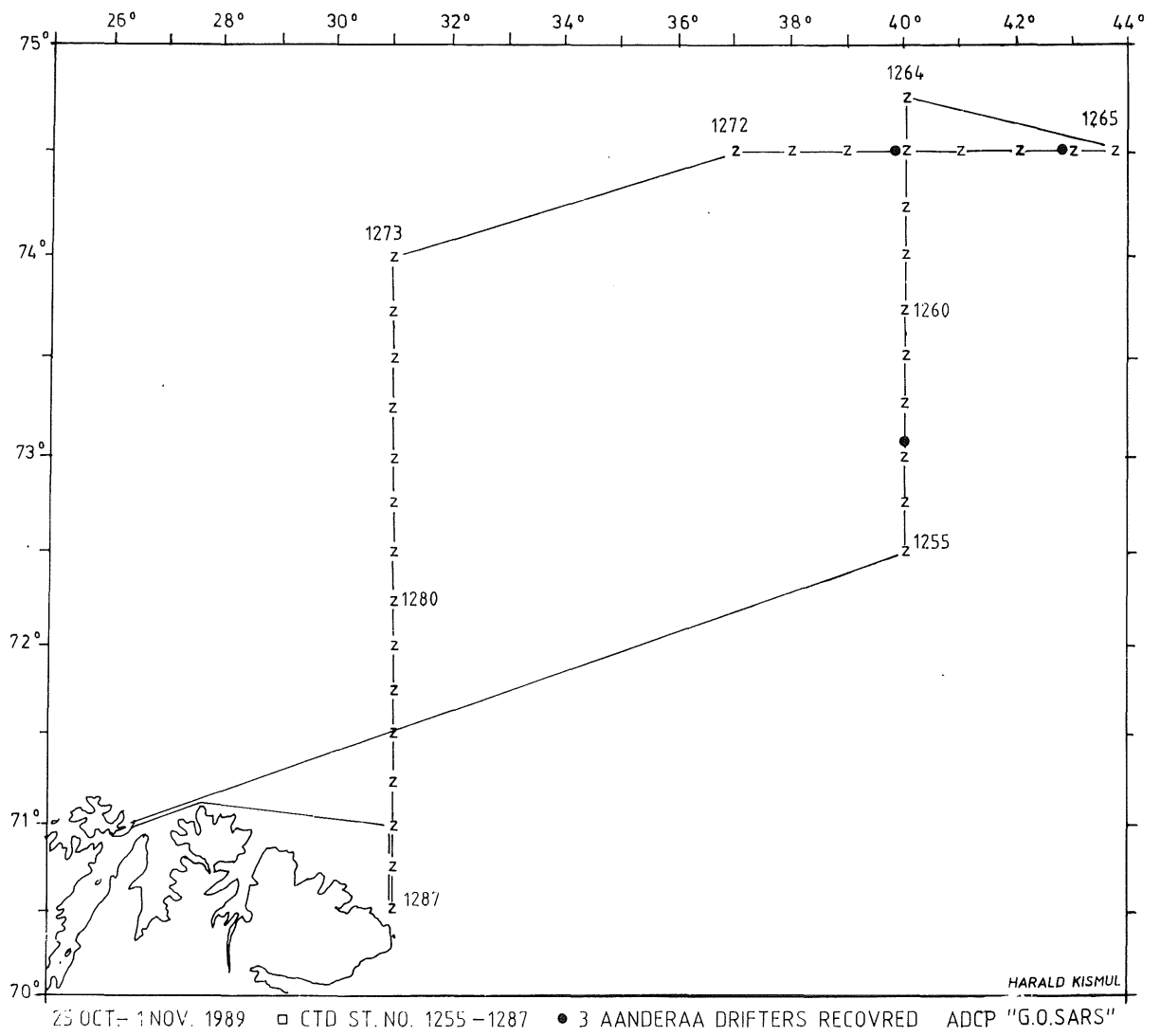


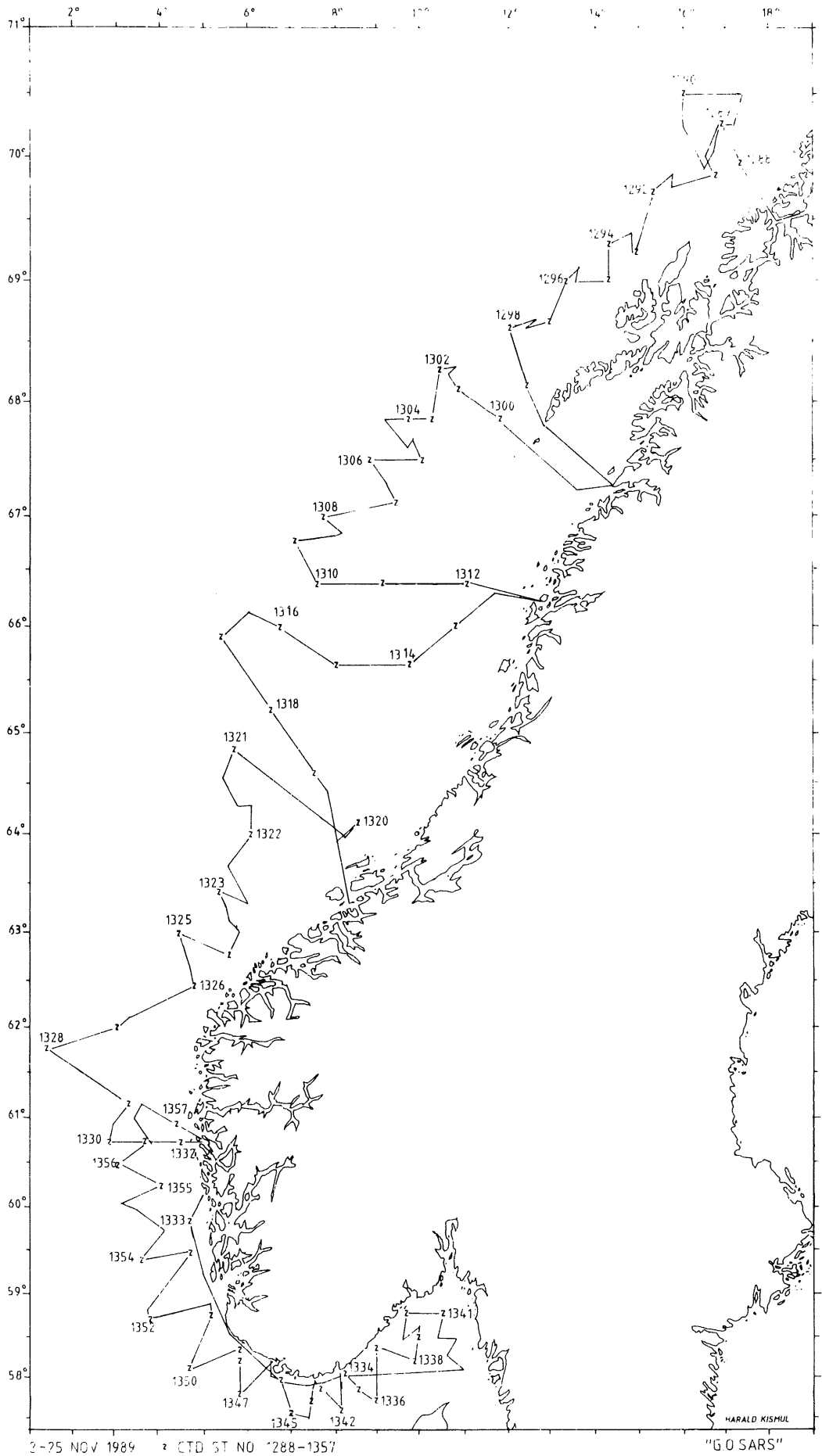


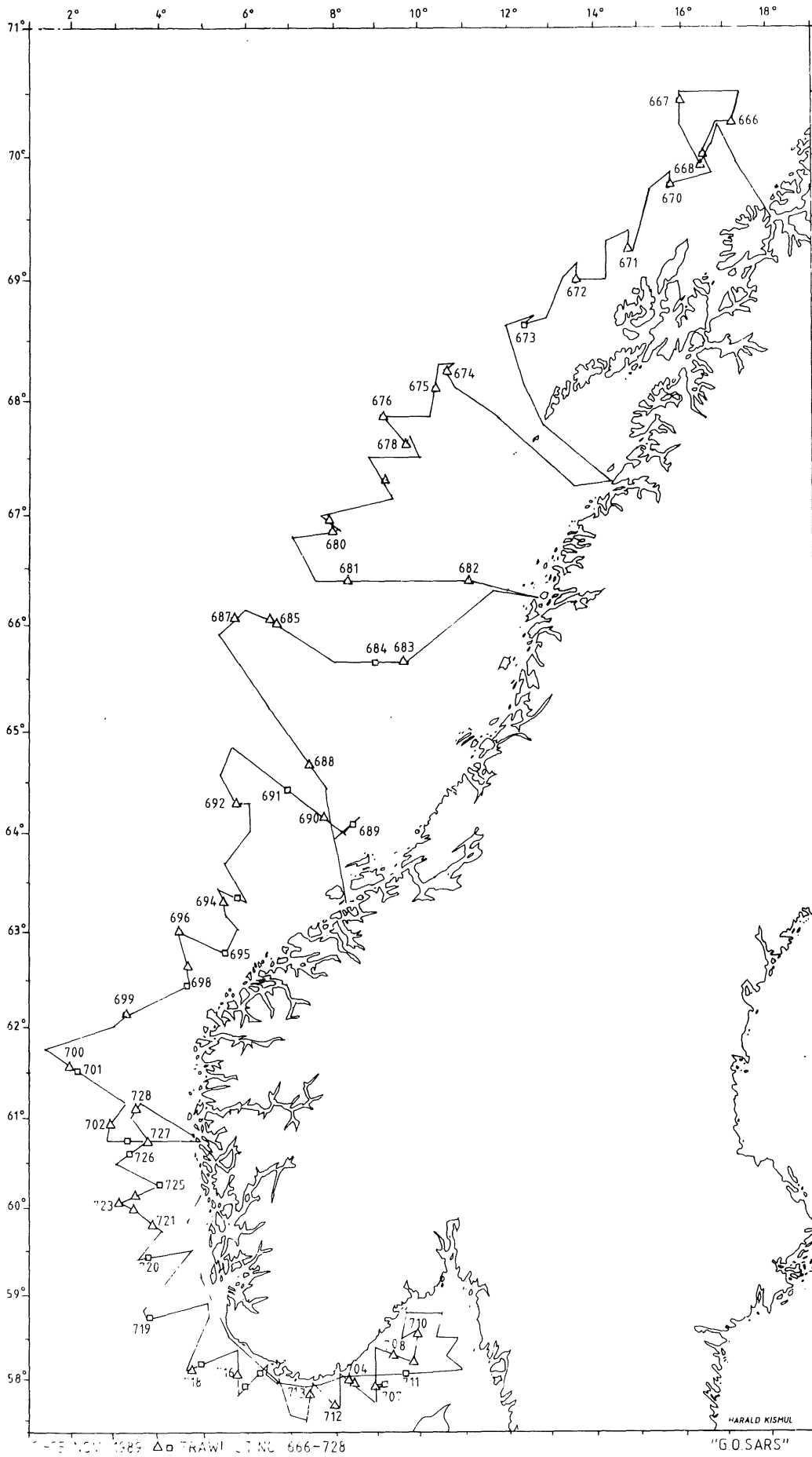




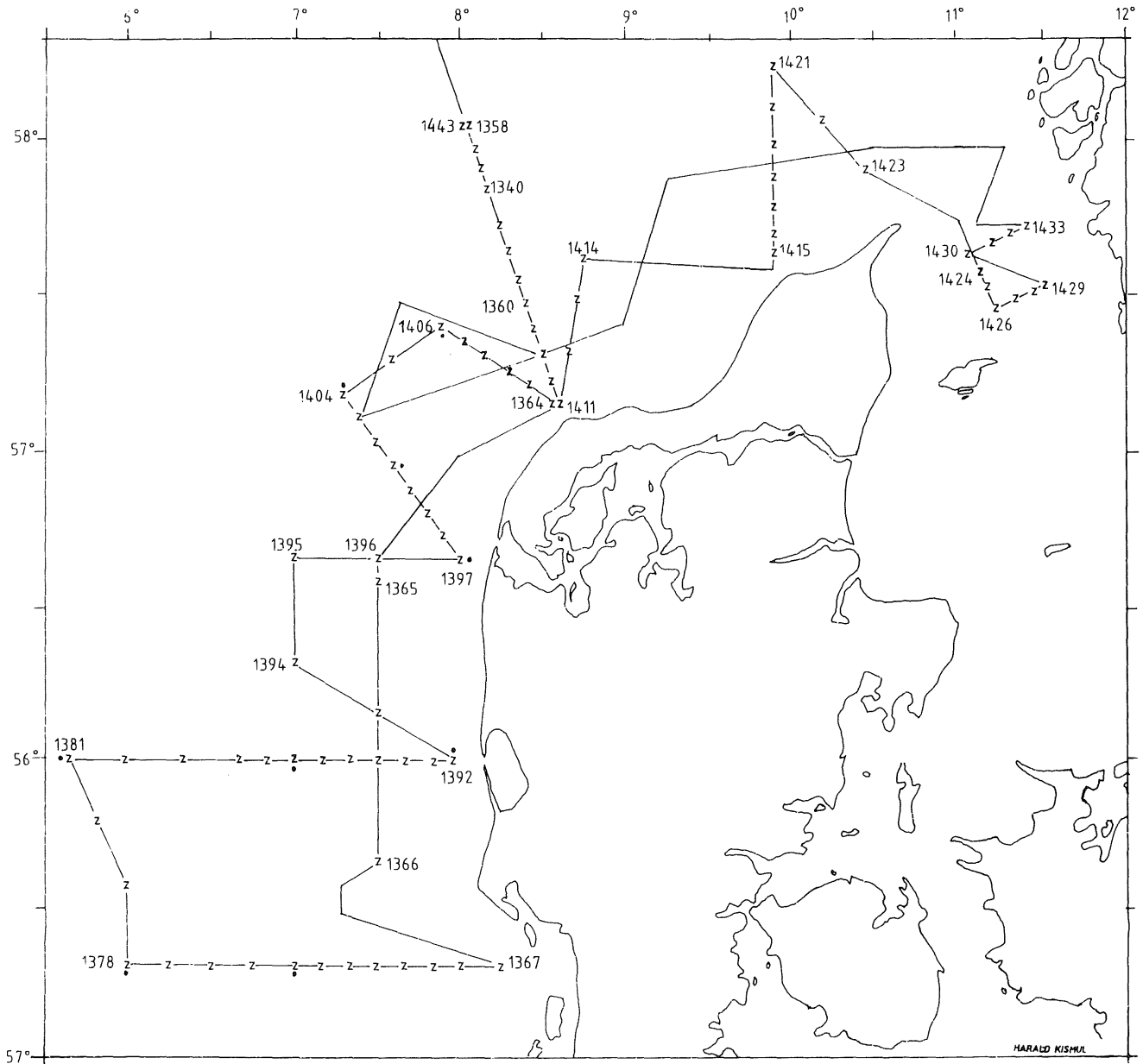






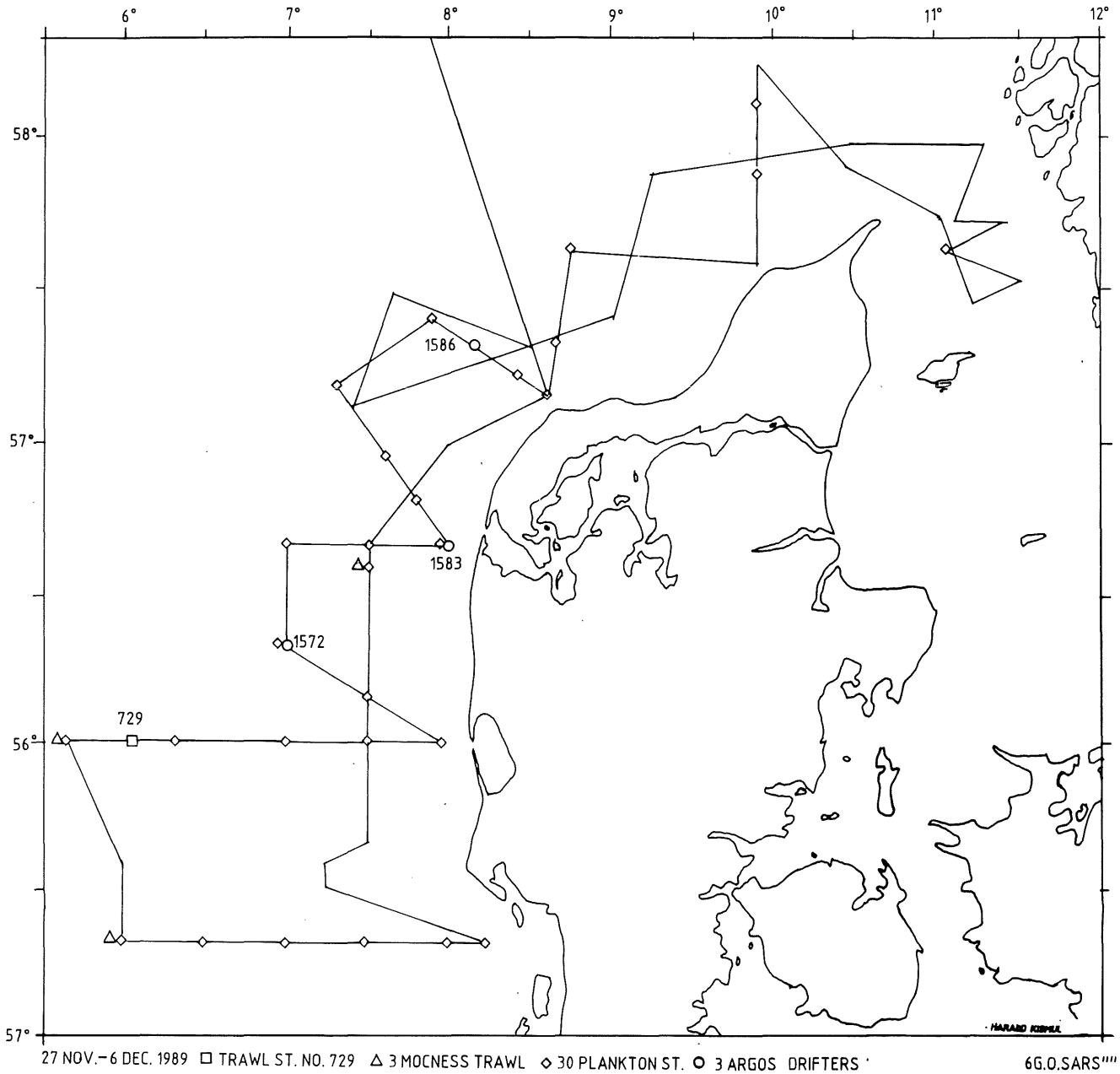


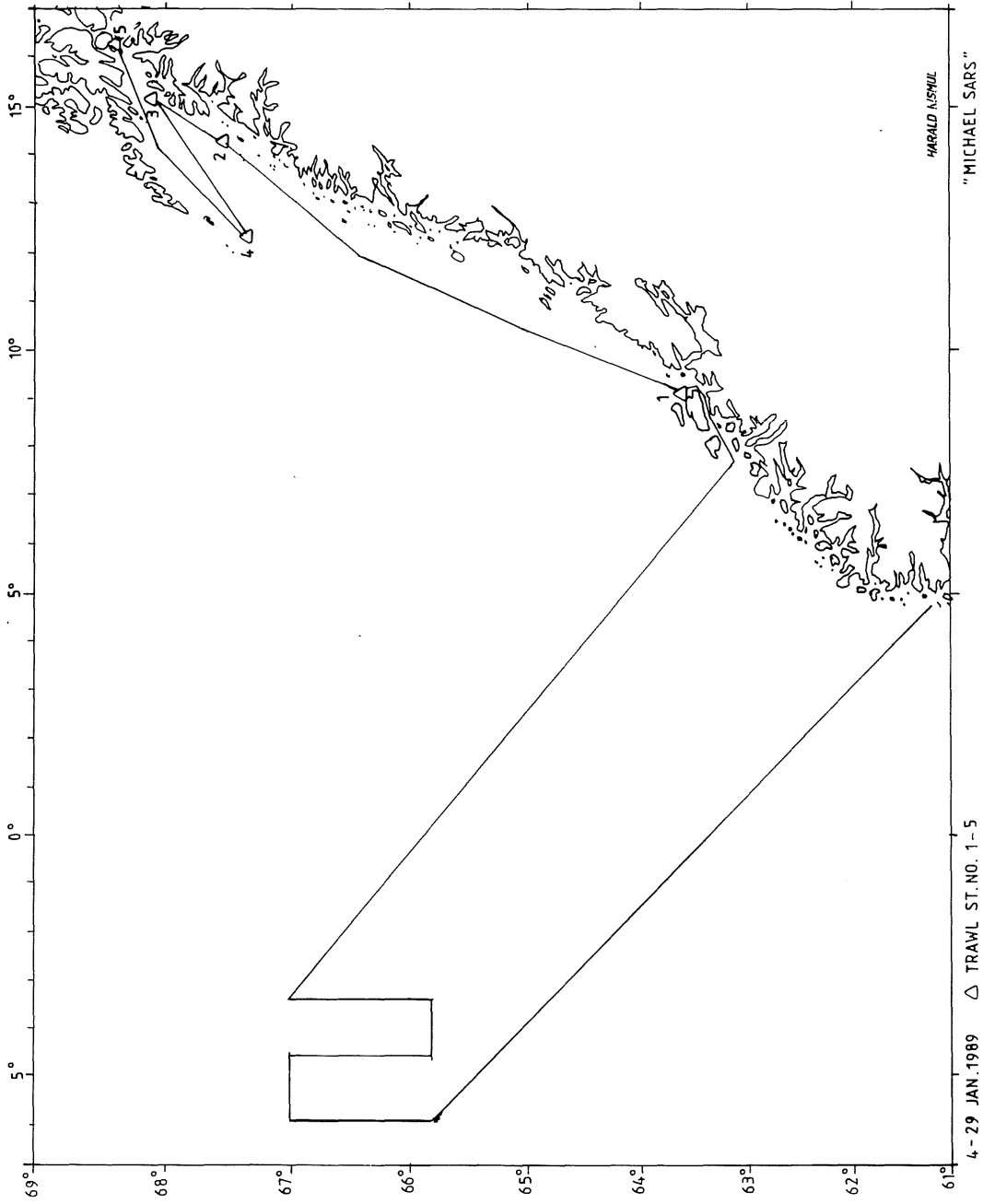


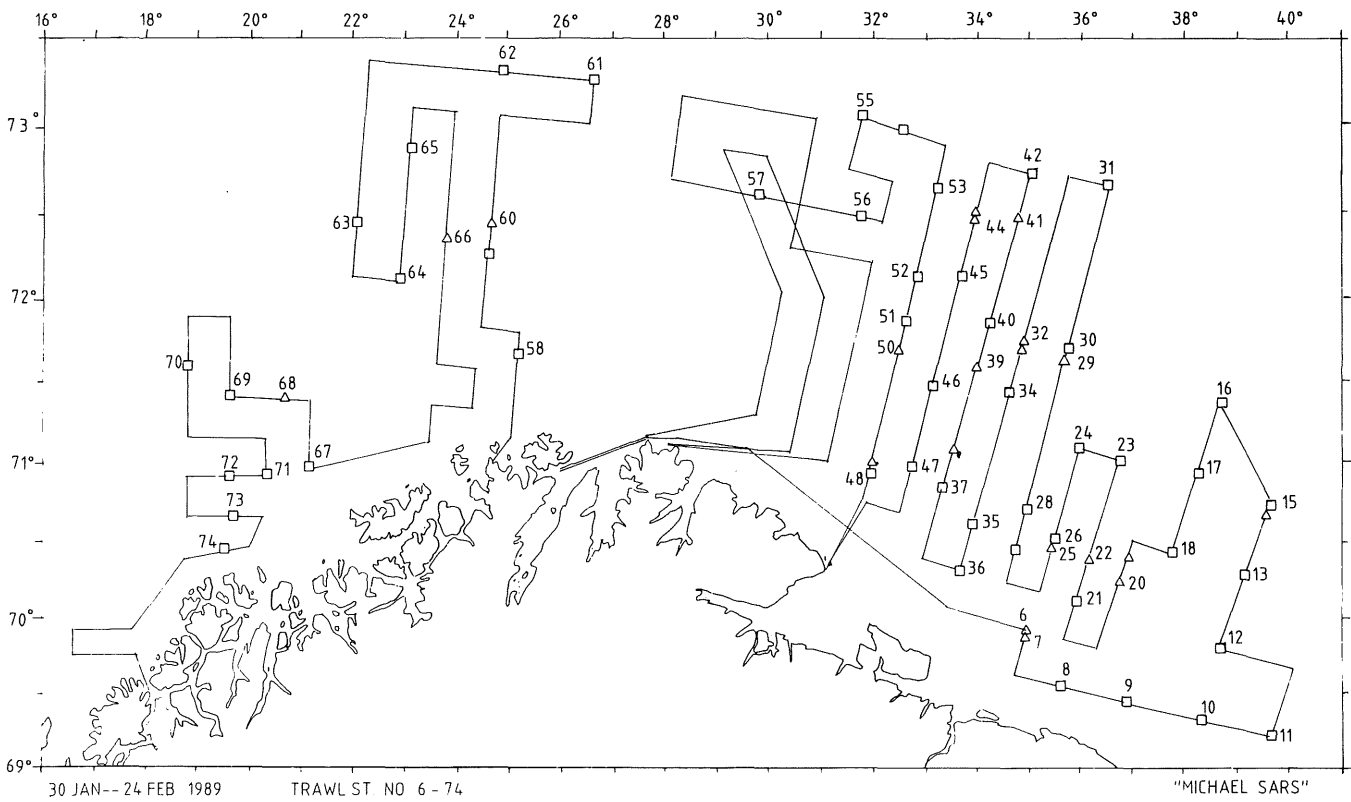
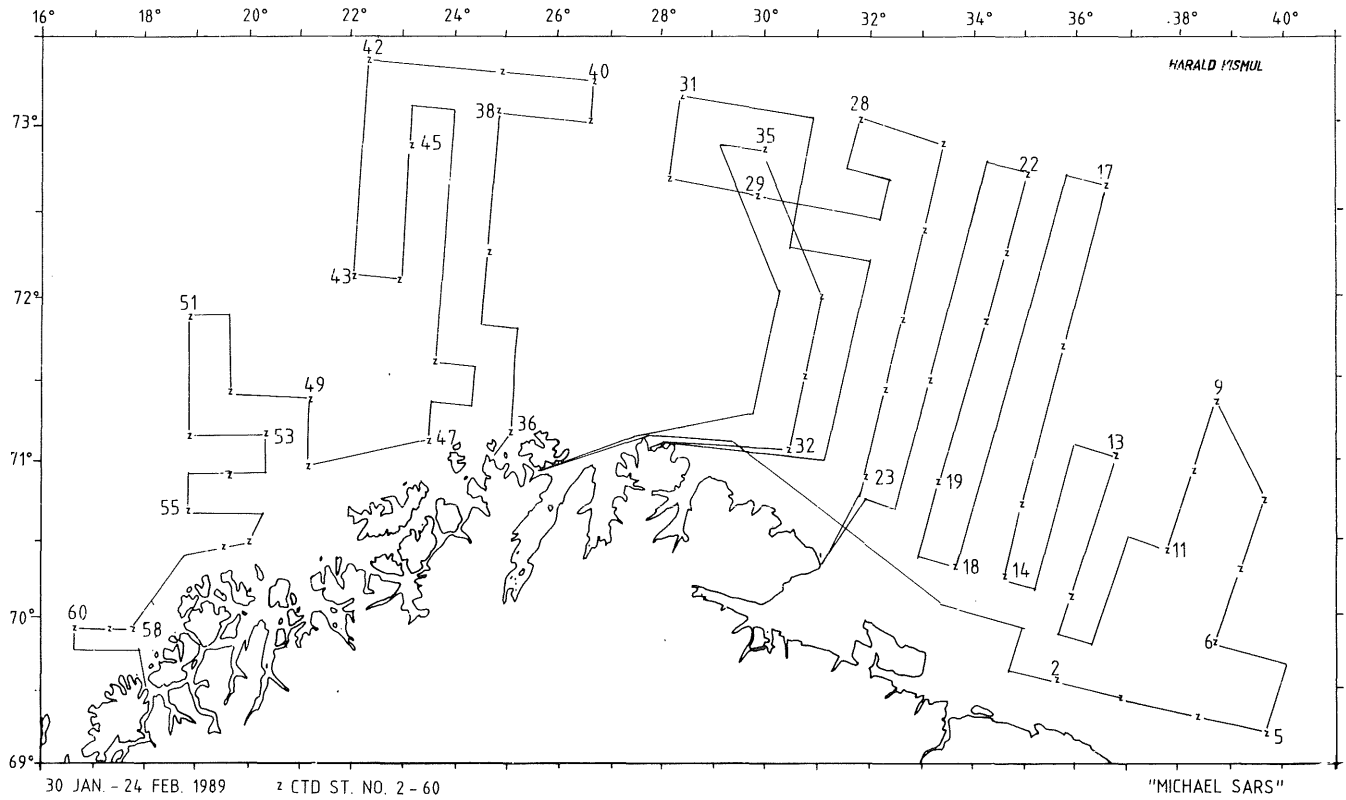


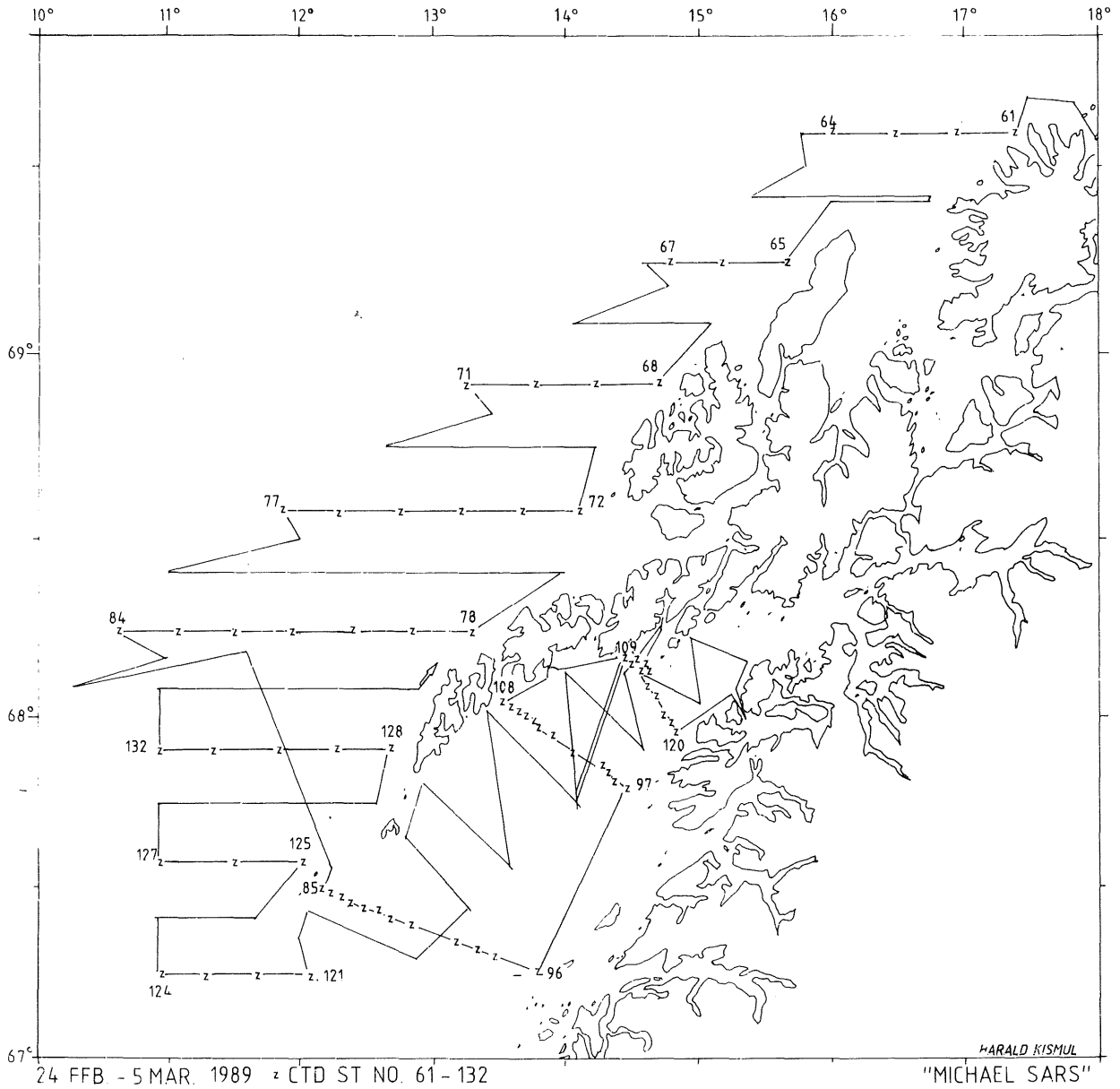
27 NOV. - 6 DEC. 1989 z CTD ST. NO. 1358-1443 NUTRIENTS, CHLOROPHYLL, • OXYGEN, ADCP.

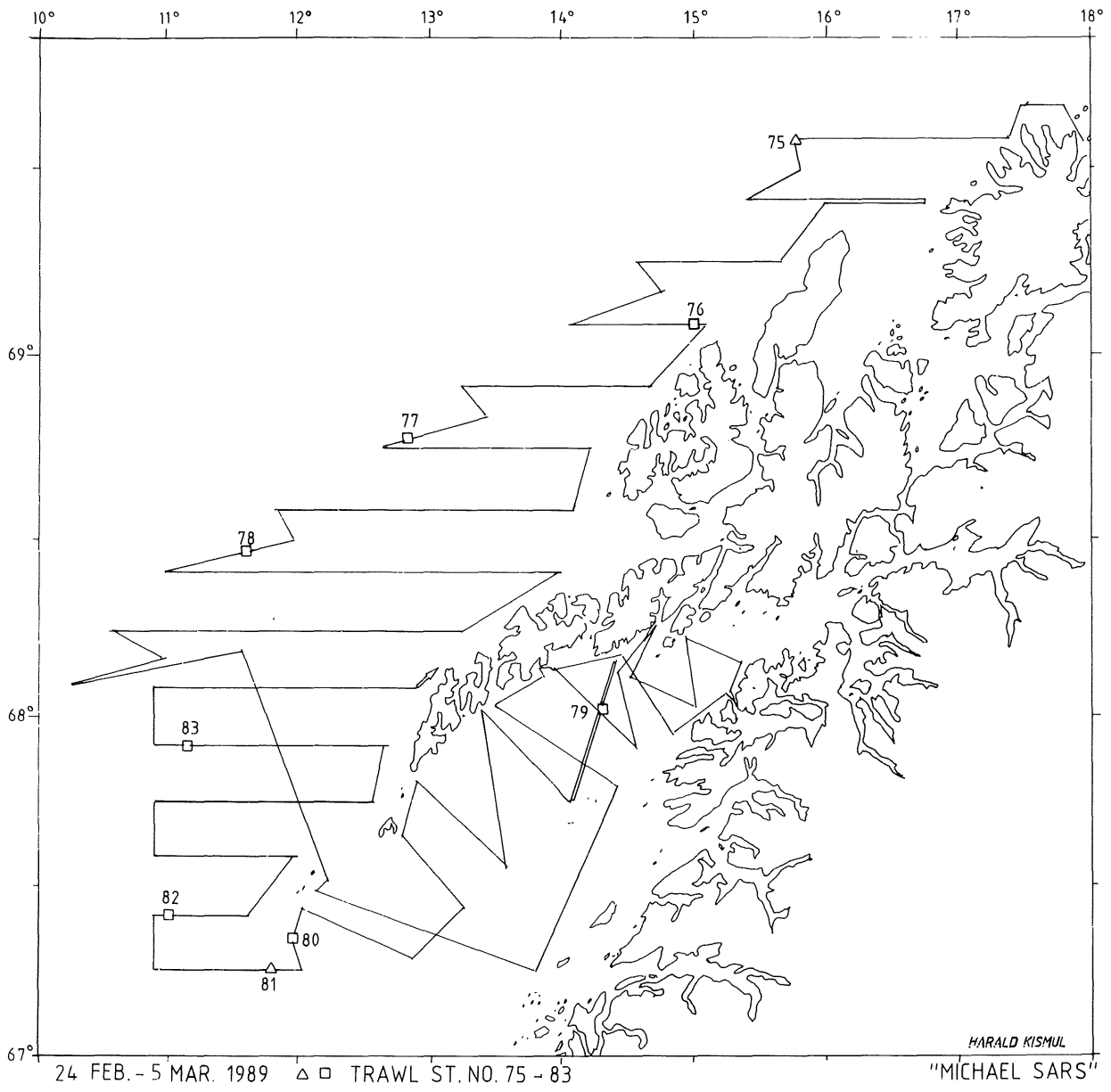
"G.O.SARS"

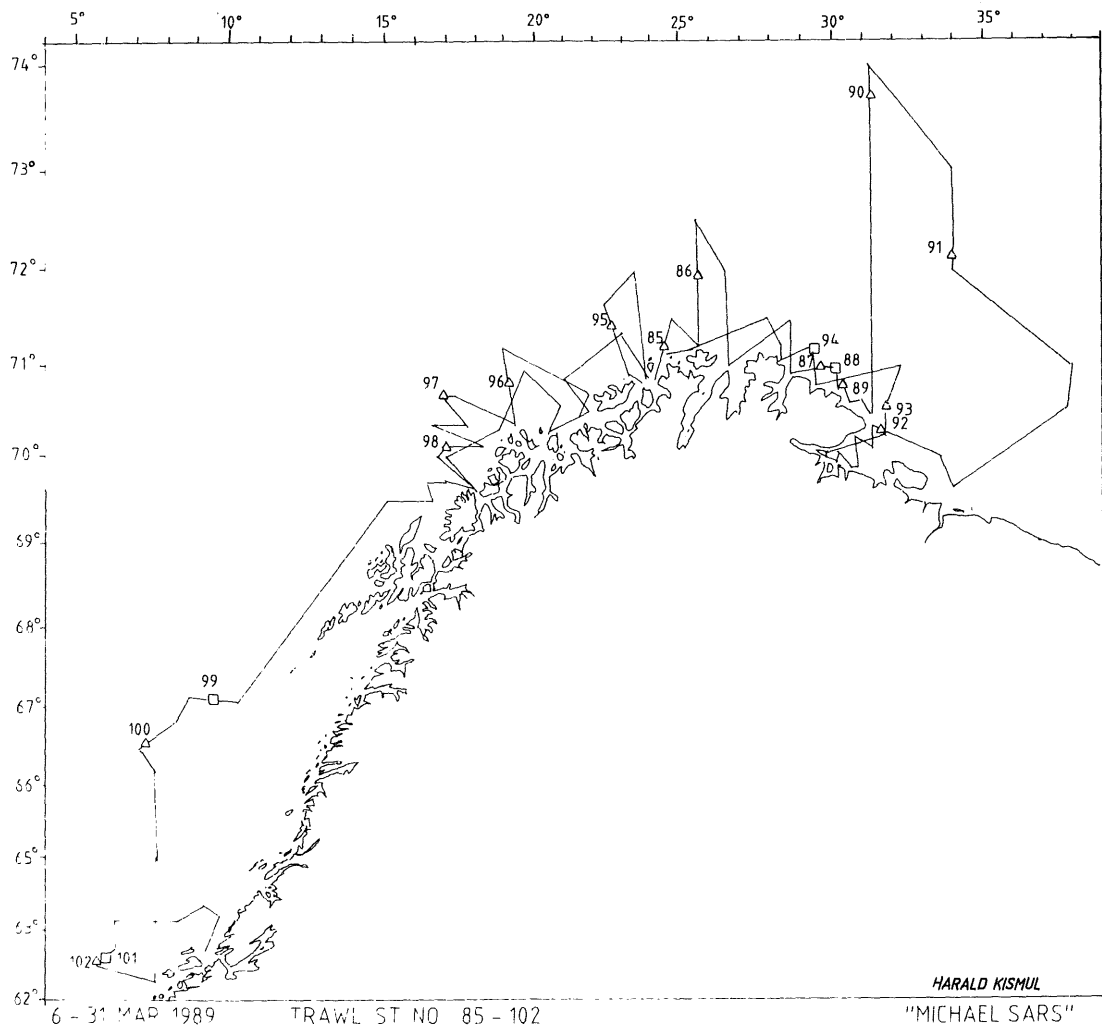
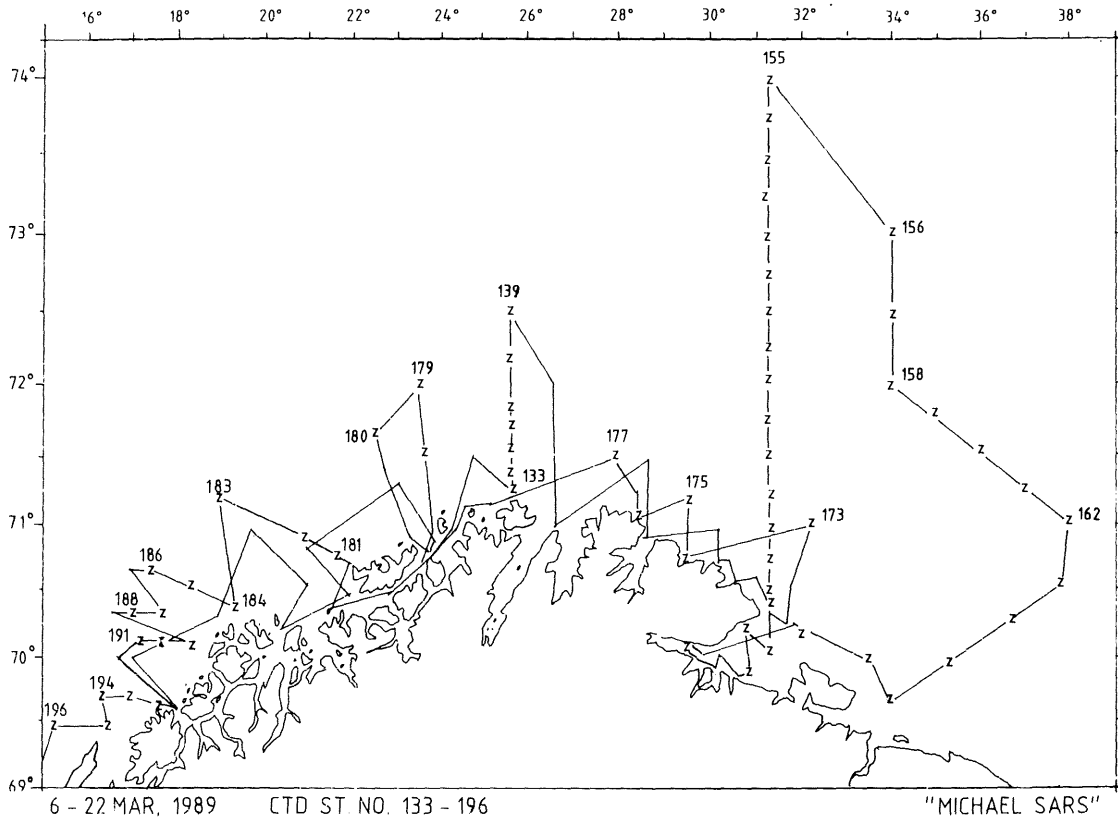


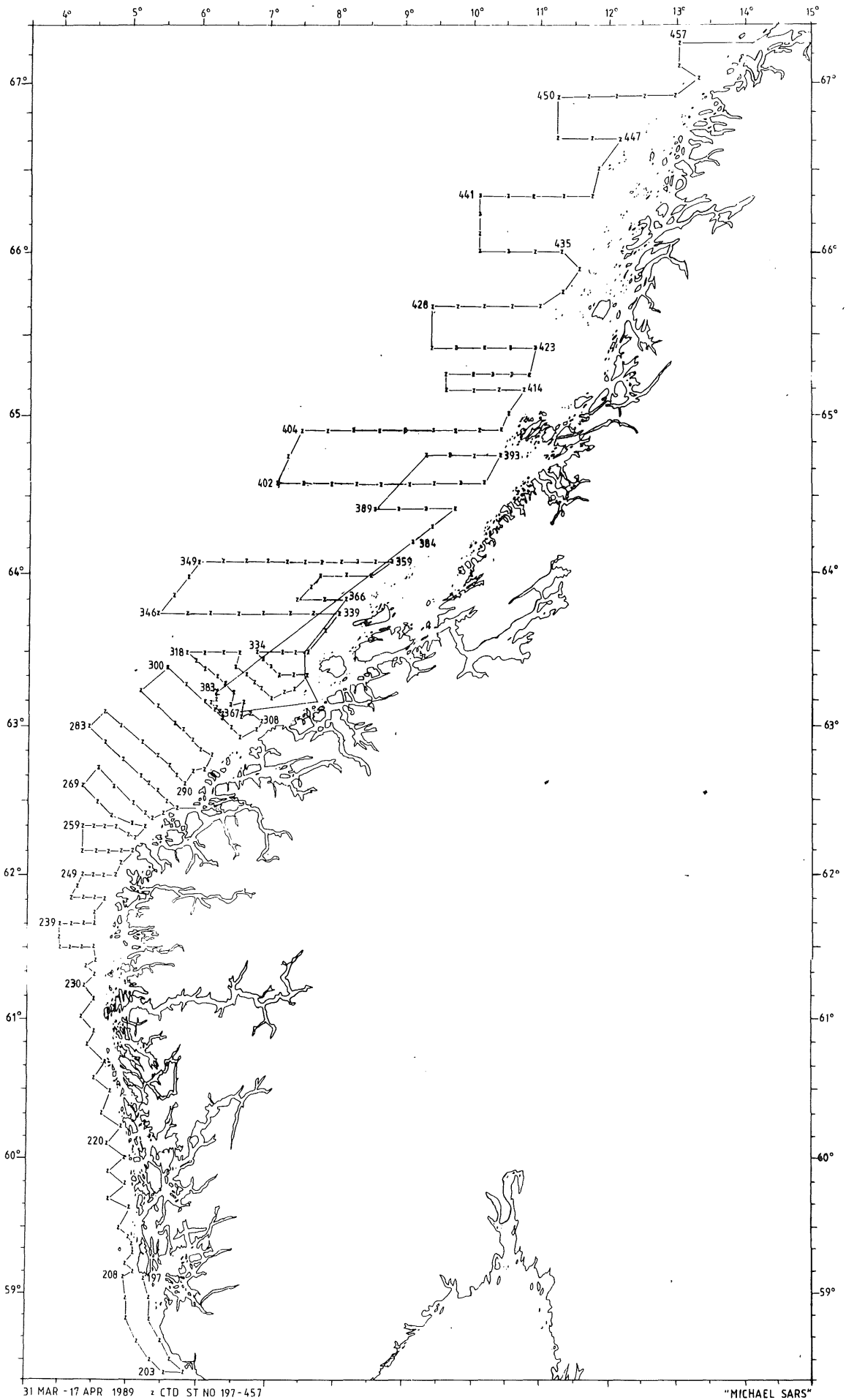




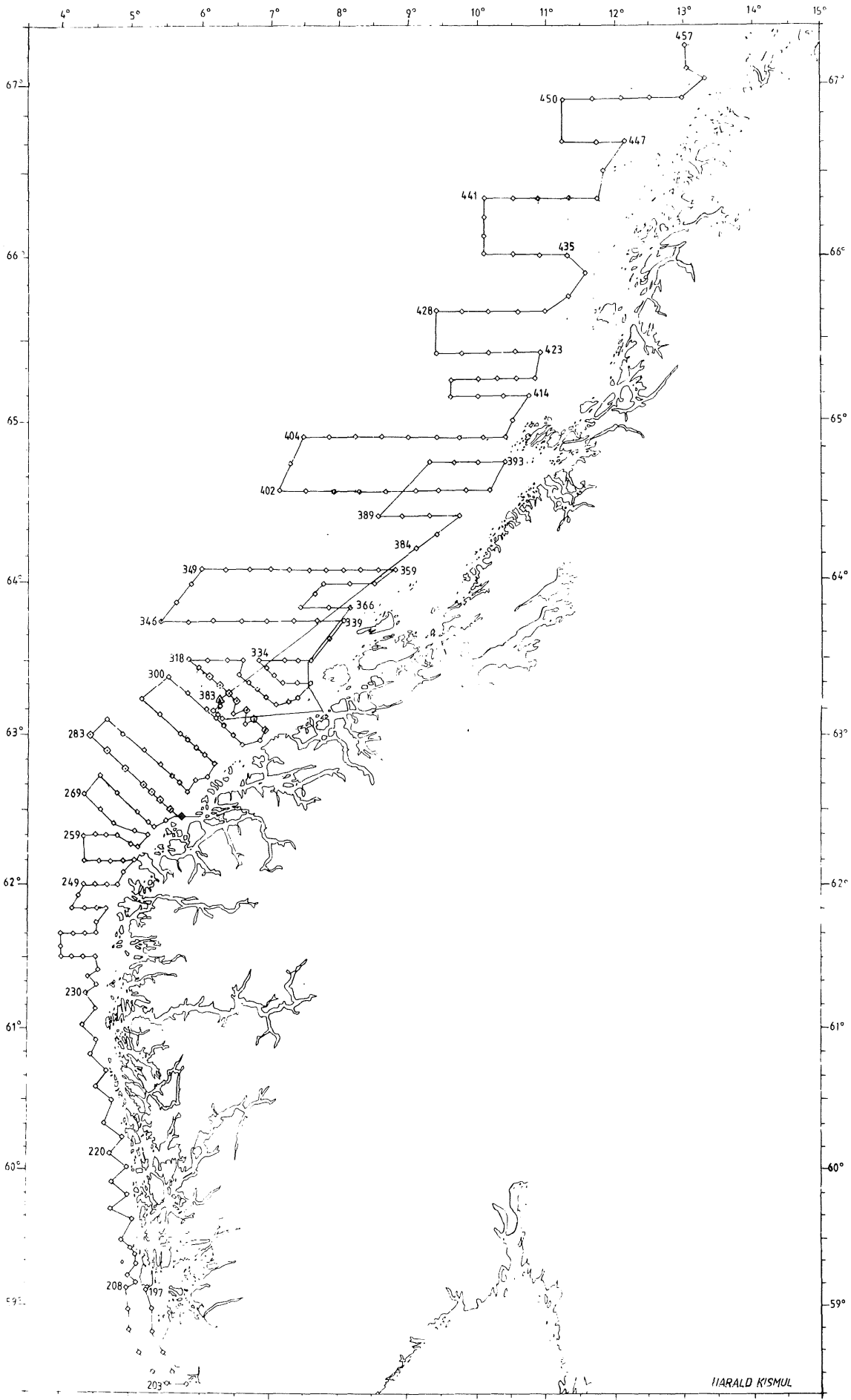






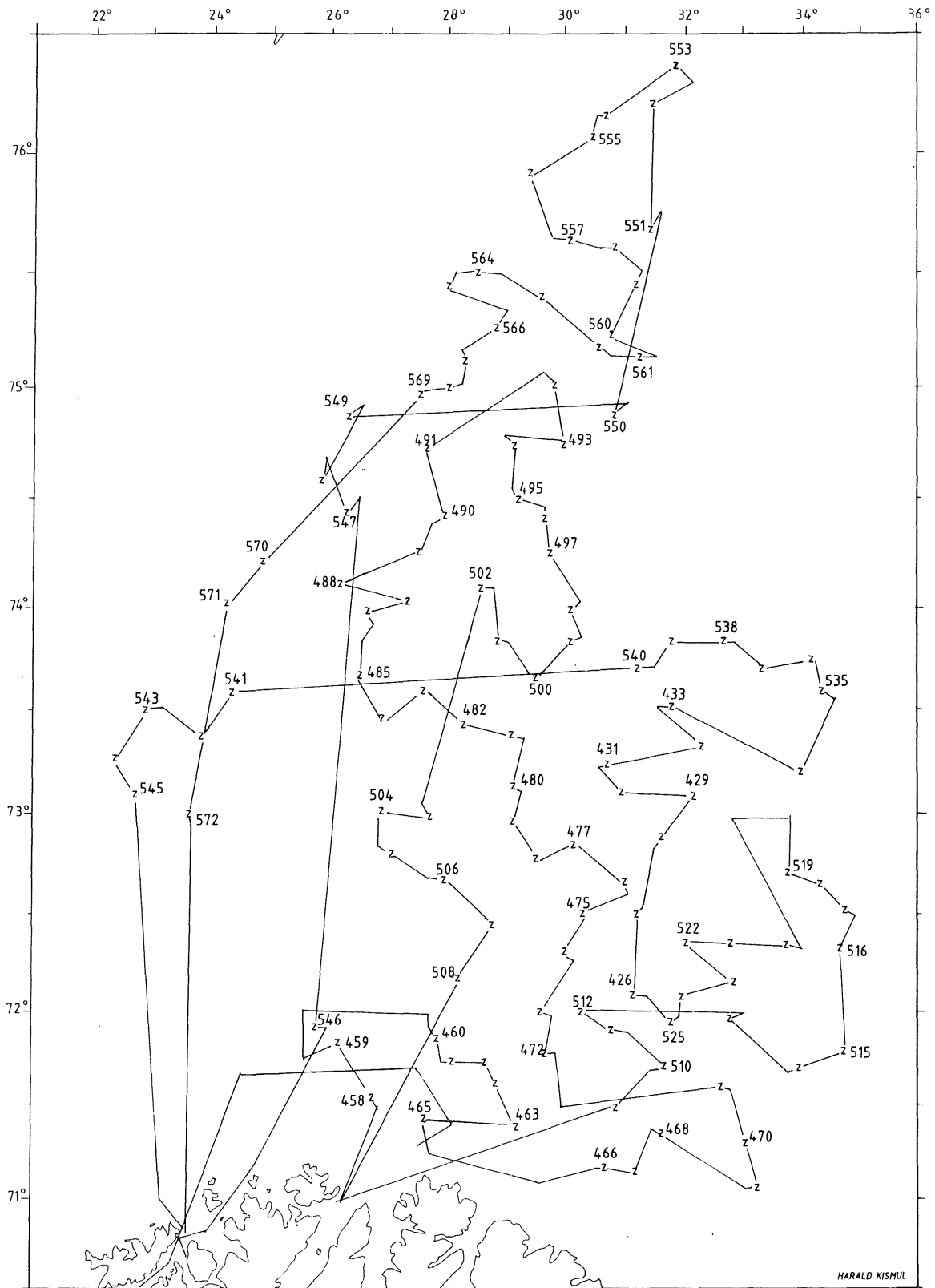






APR - 17 APR 1989 ◇ PLANKTON ST. CHLOROPHYLL, NUTRIENTS ○ PLANKTON ST 90µm, 375µm △ MOONNESS ST 371-383

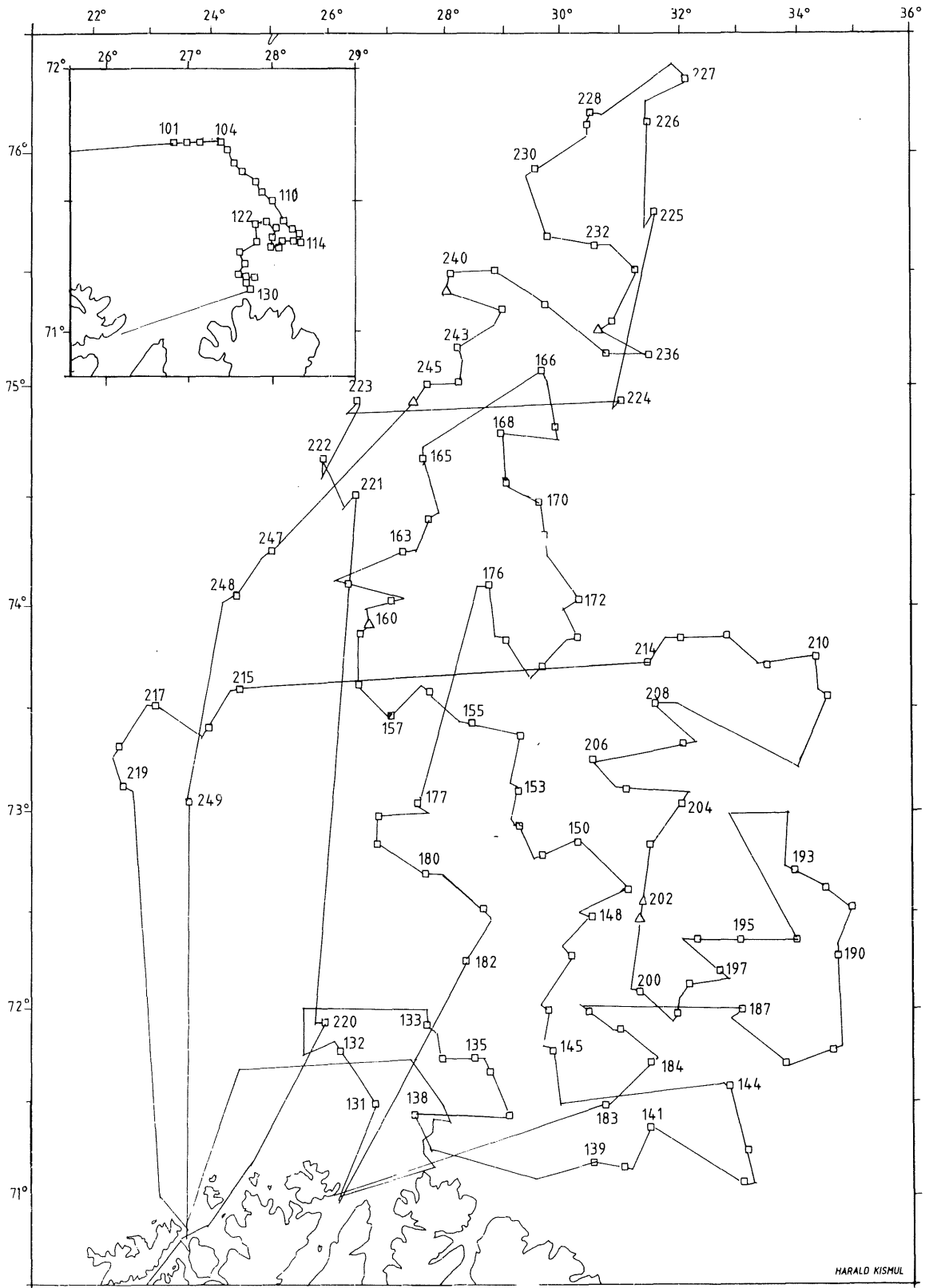
Harald Kismul  
"MICHAEL SARS"



19 APR - 18 MAY 1989 z CTD ST. NO. 458-572

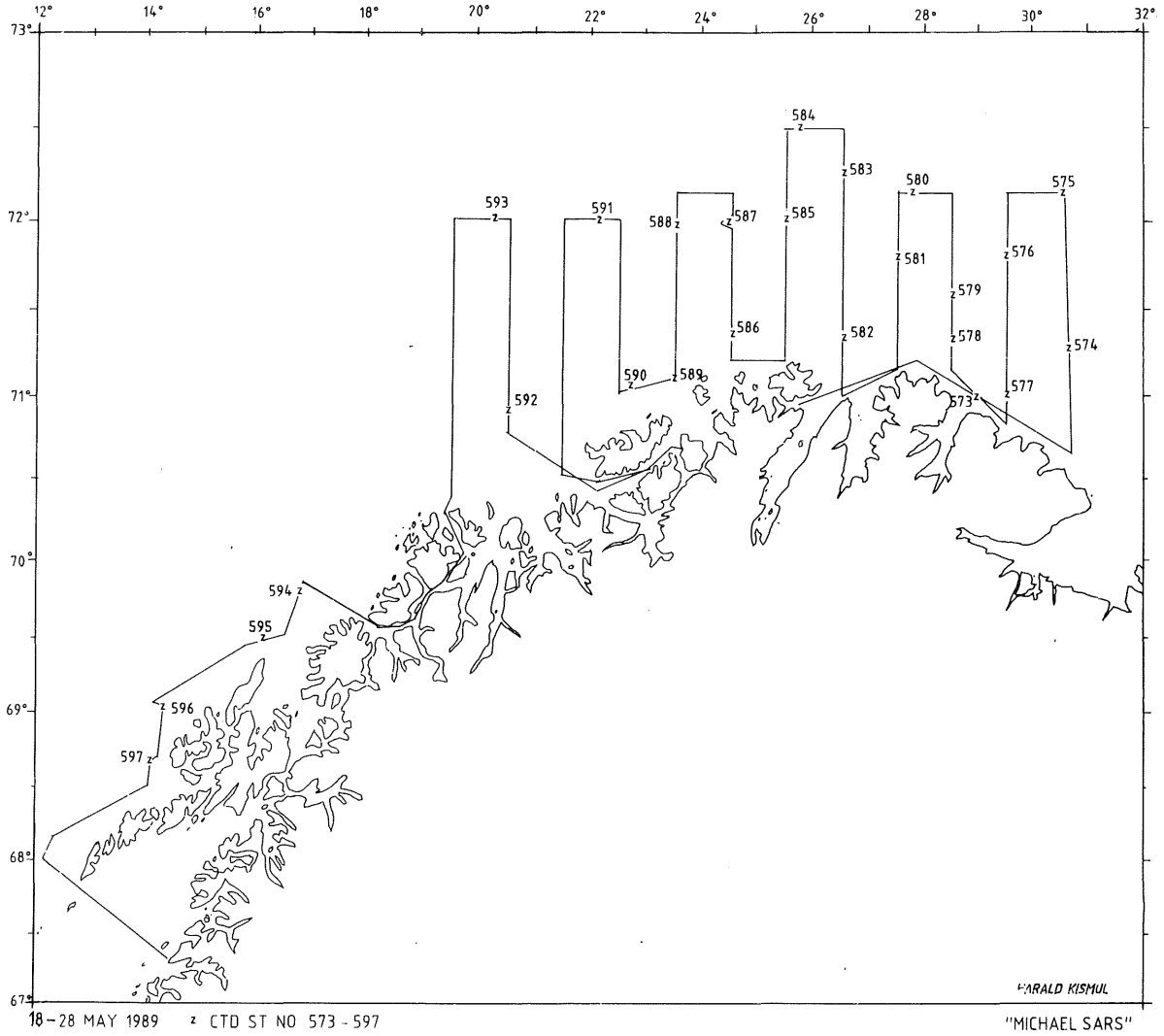
HARALD KISHUL

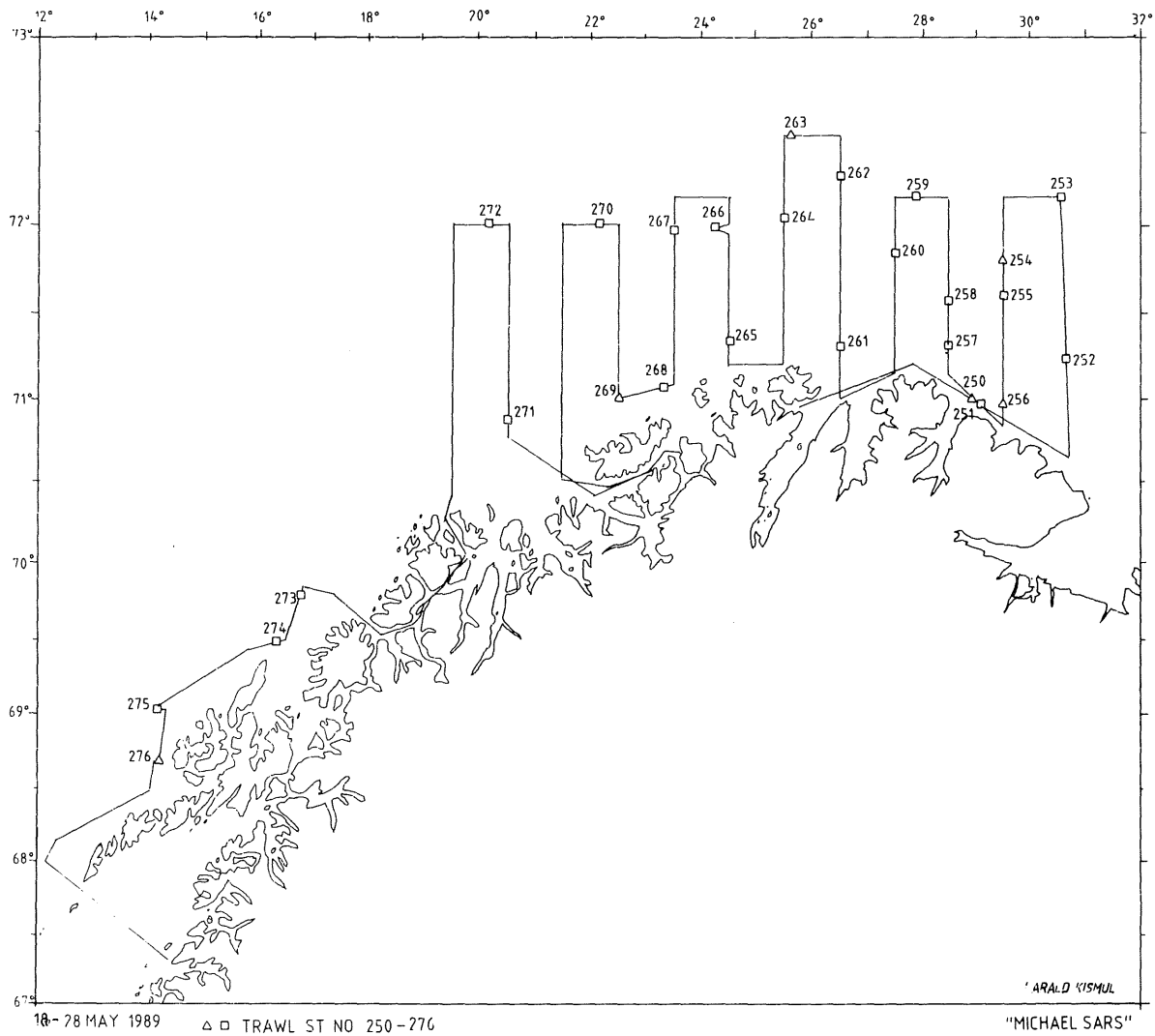
"MICHAEL SARS"

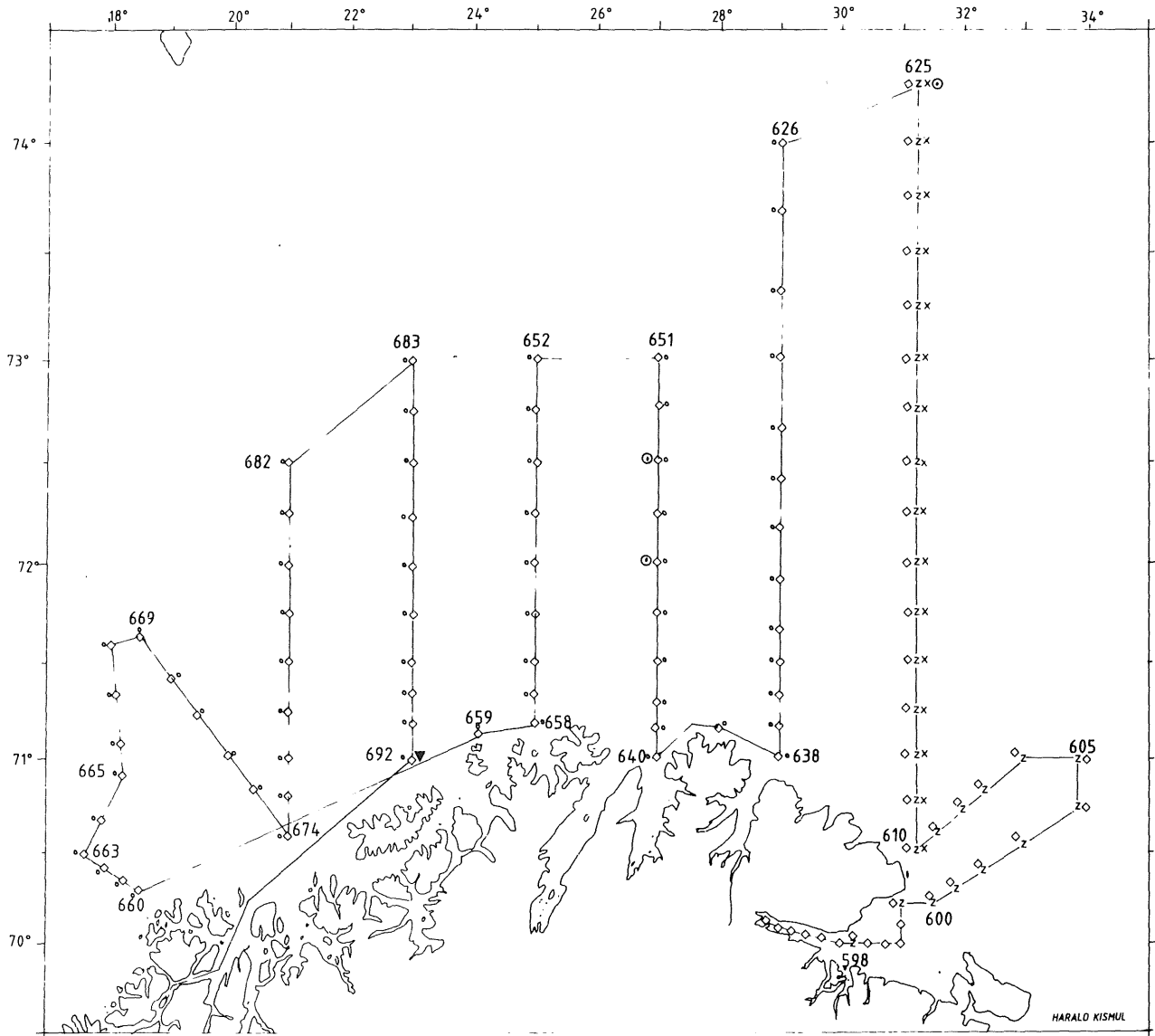


19 APR - 18 MAY 1989    □ △ TRAWL ST NO 101-249

"MICHAEL SARS"



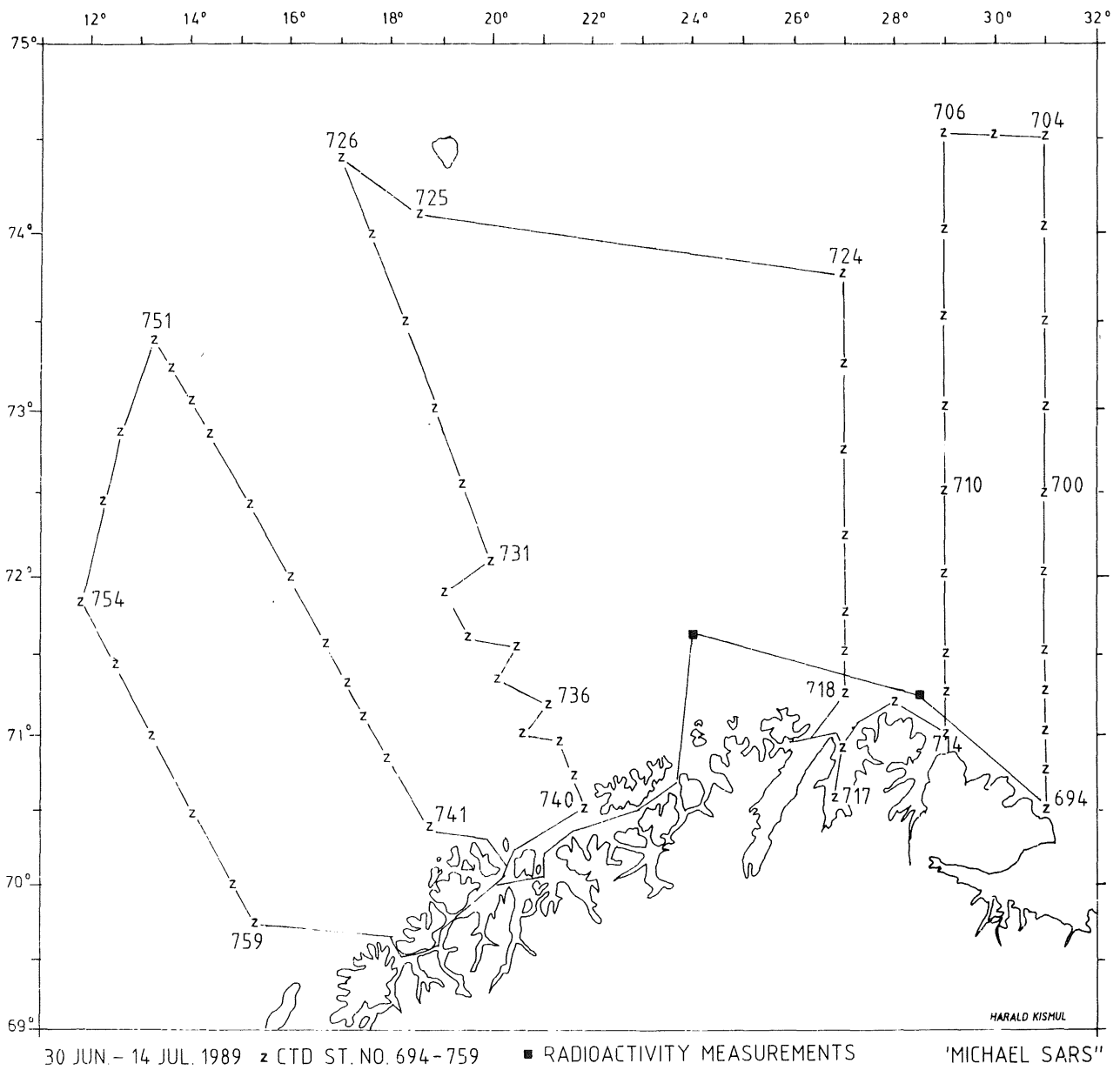


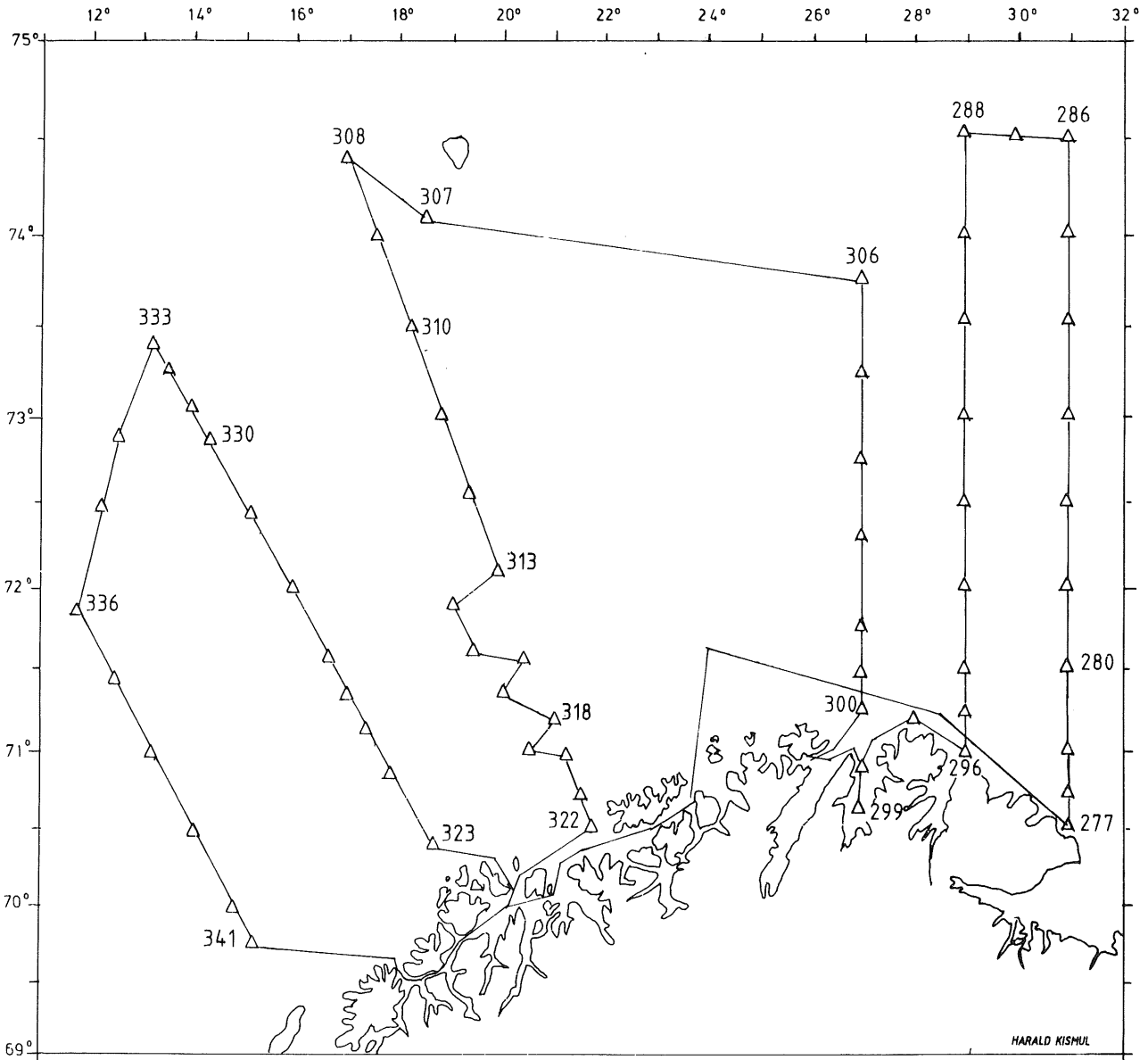


21-30 JUN 1989 z CTD ST NO 598-625, x CO ST NO. 610-625, o 105 PLANKTON ST, ° 67 ST. 1°C IN 20M DEPTH, ▼ HUFSA, ○ 3 ARGOS DRIFTERS.

HARALD KISMUL

"MICHAEL SARS"

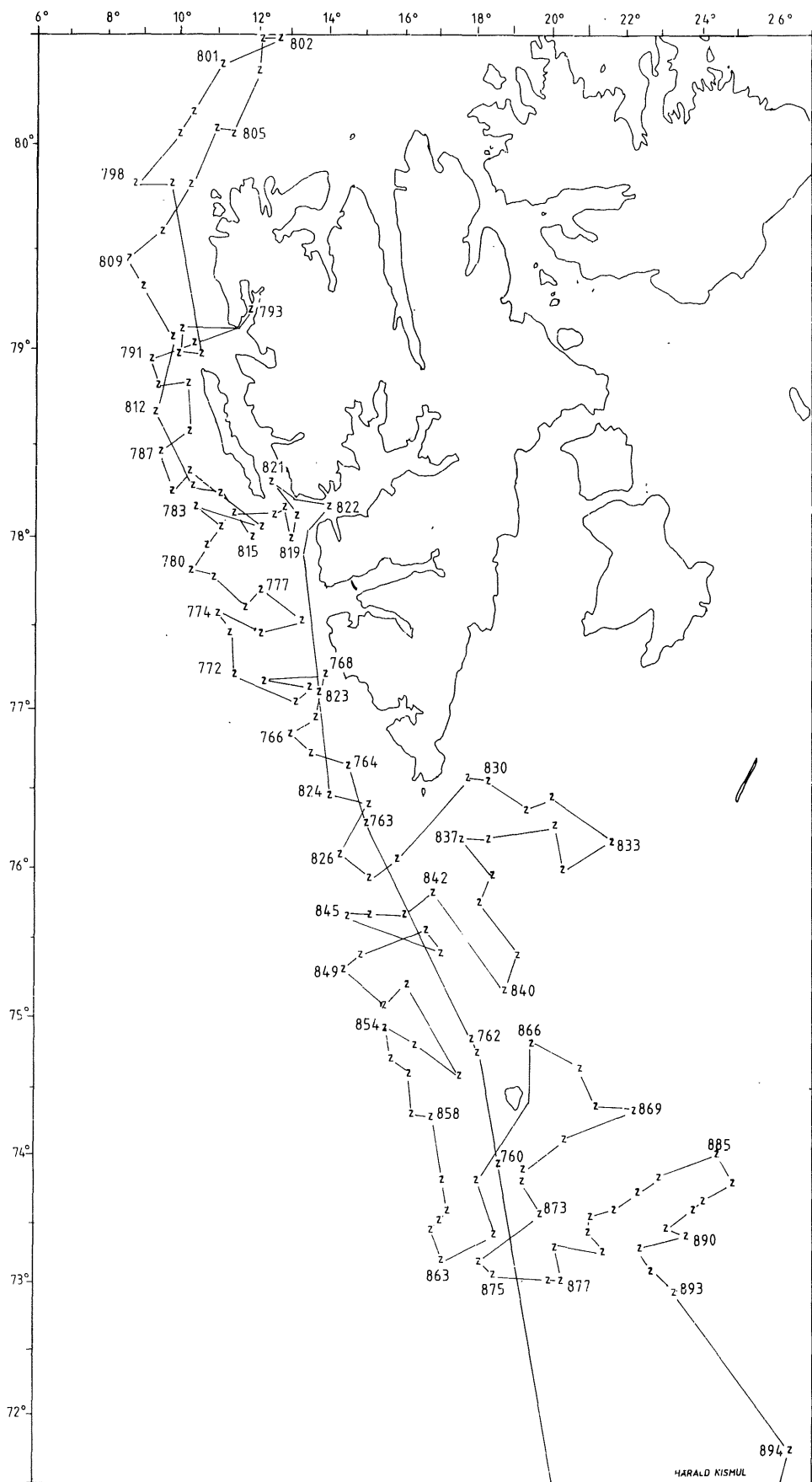




30 JUN. - 14 JUL. 1989 Δ TRAWL ST.NO. 277-341

"MICHAEL SARS"

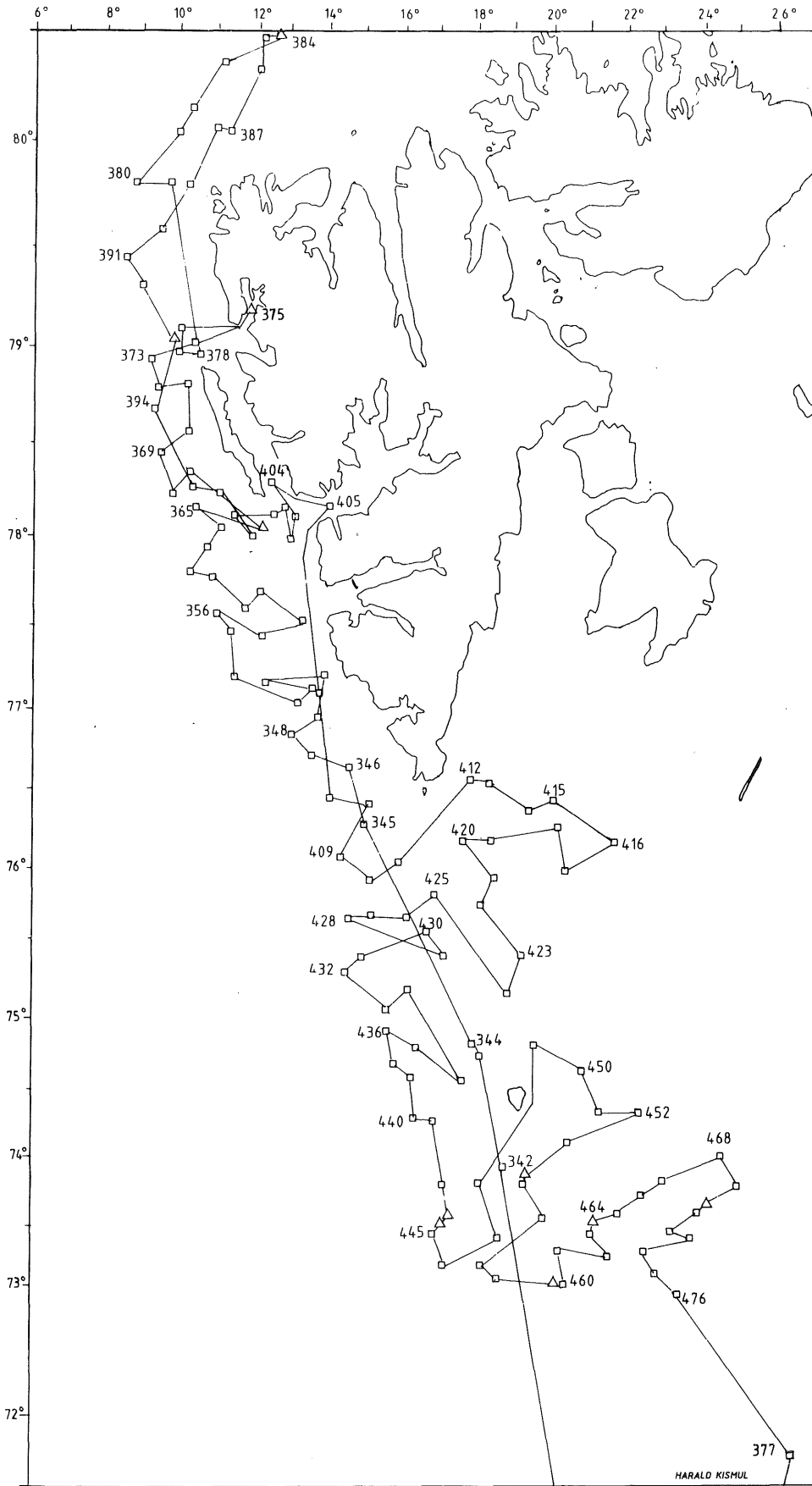




14 JUL - 13 AUG 1989 z CTD ST. NO 760-894

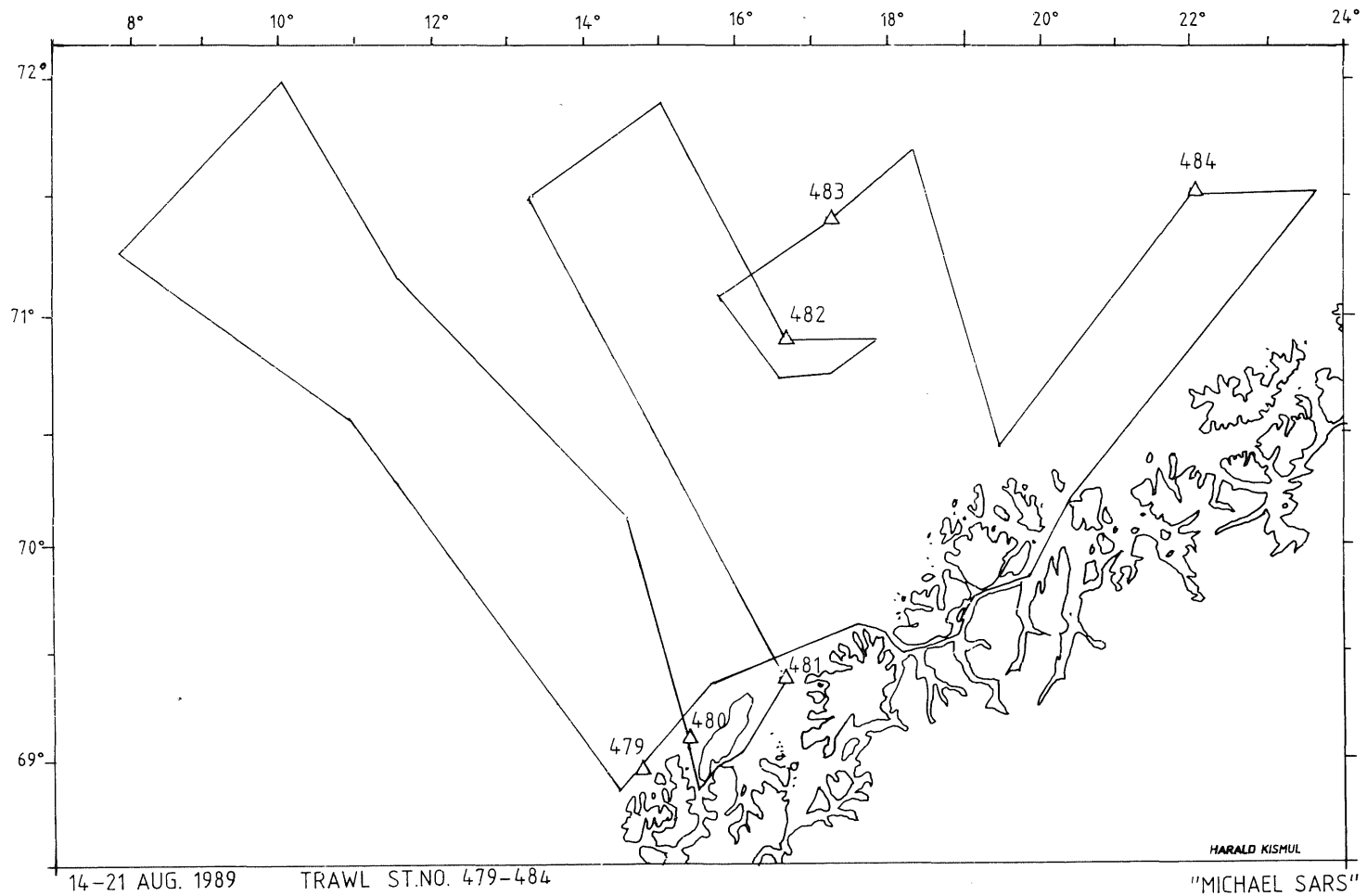
"MICHAEL SARS"

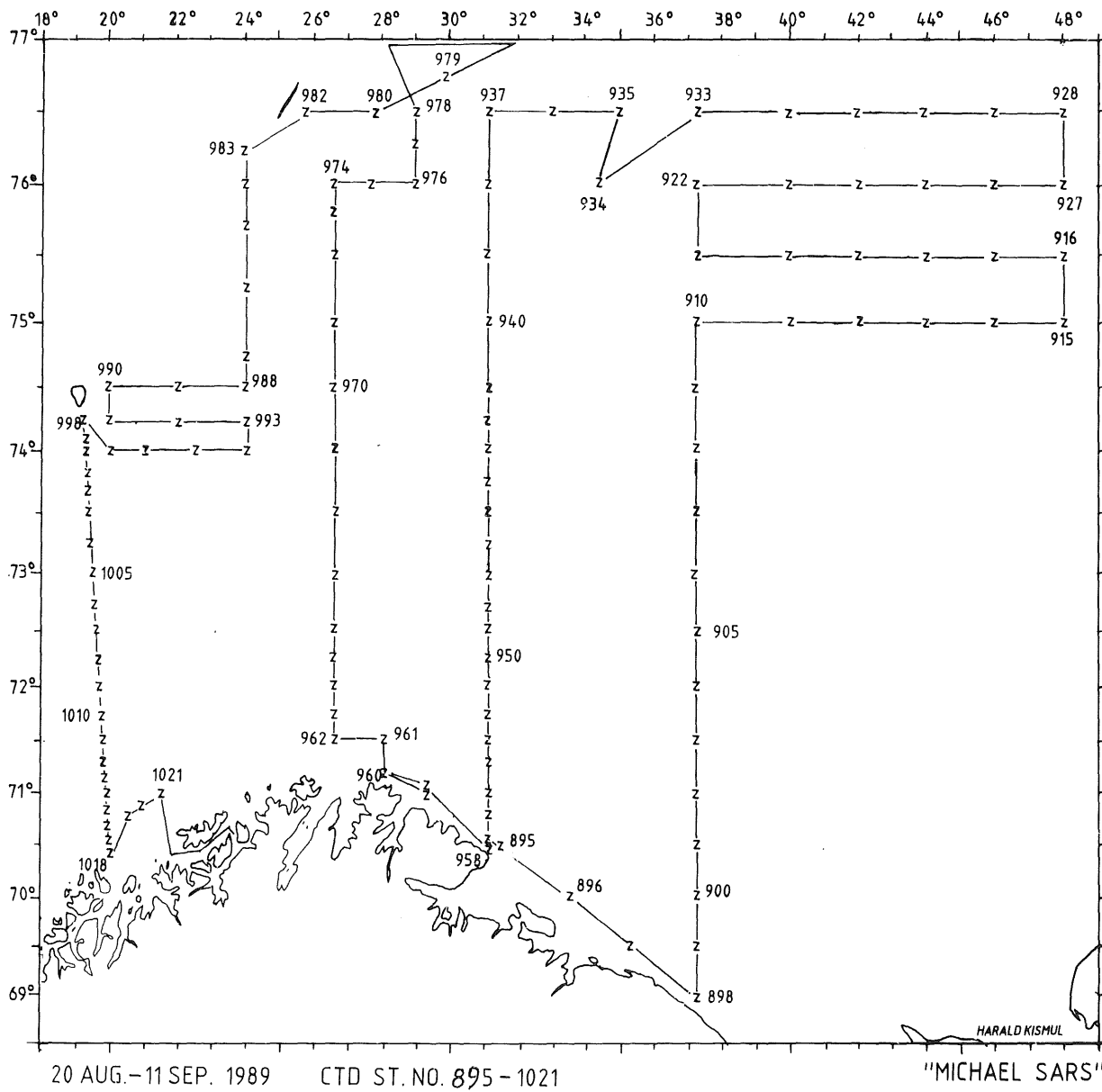
HARALD NISMUL



14 JUL-13 AUG. 1989 □ SHRIMP TRAWL △ PEL. TRAWL ST. NO. 342-477 "MICHAEL SARS"

HARALD KISHMUL

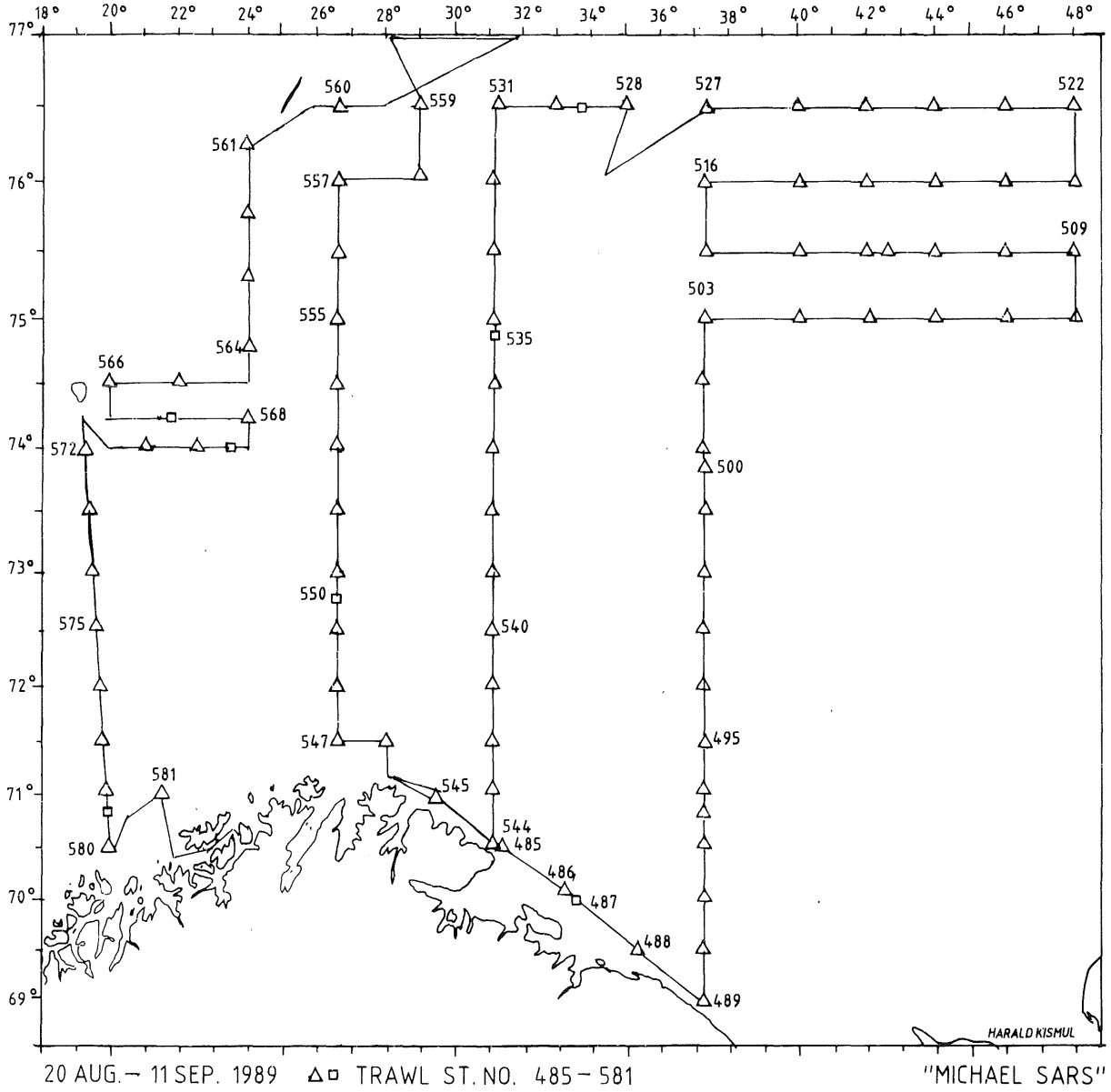


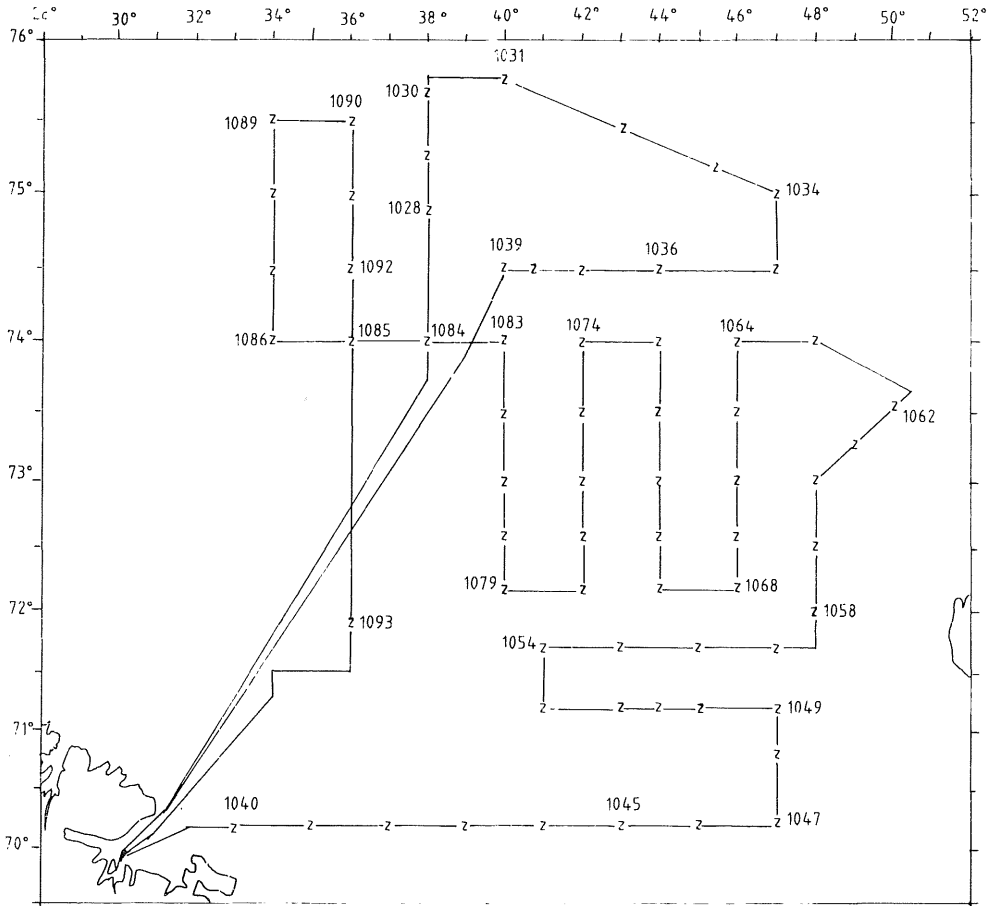


20 AUG. - 11 SEP. 1989

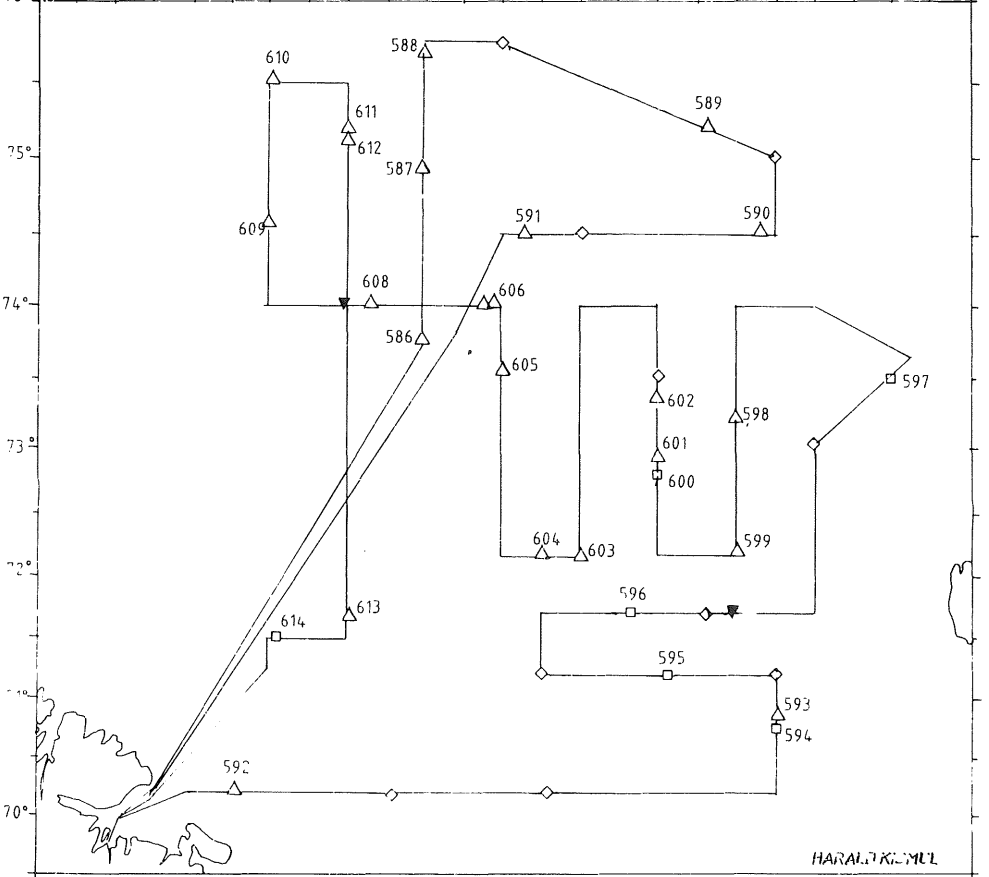
CTD ST. NO. 895 - 1021

"MICHAEL SARS"



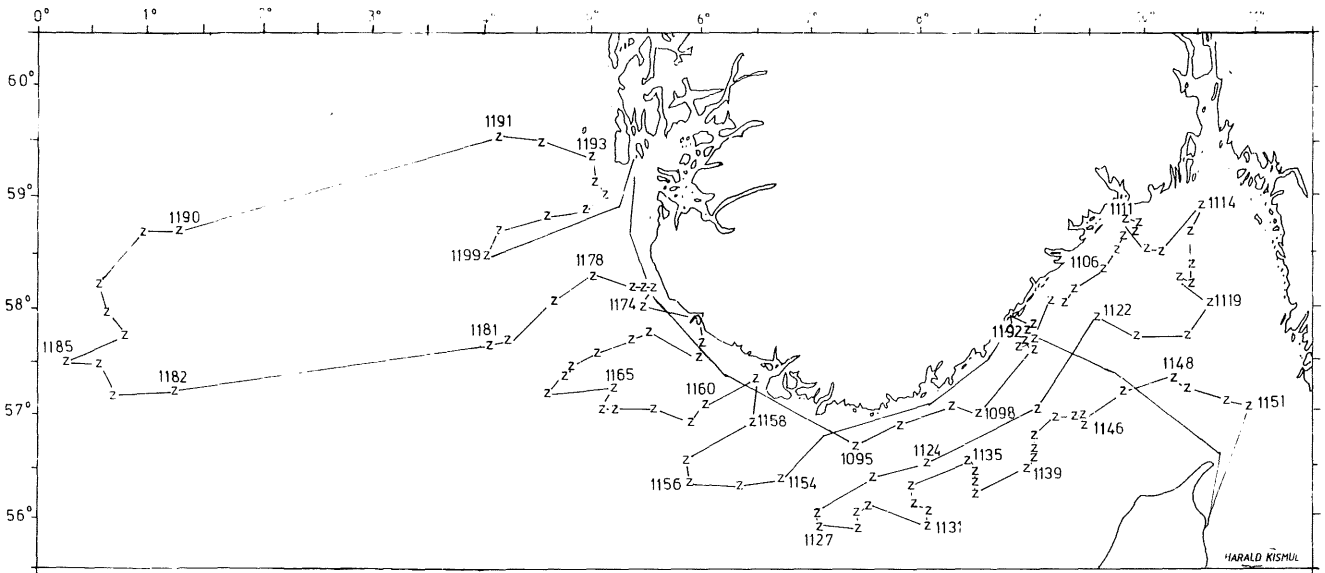


12 SEP.- 3 OCT. 1989 z CTD ST. NO. 1040-1093 "MICHAEL SARS"



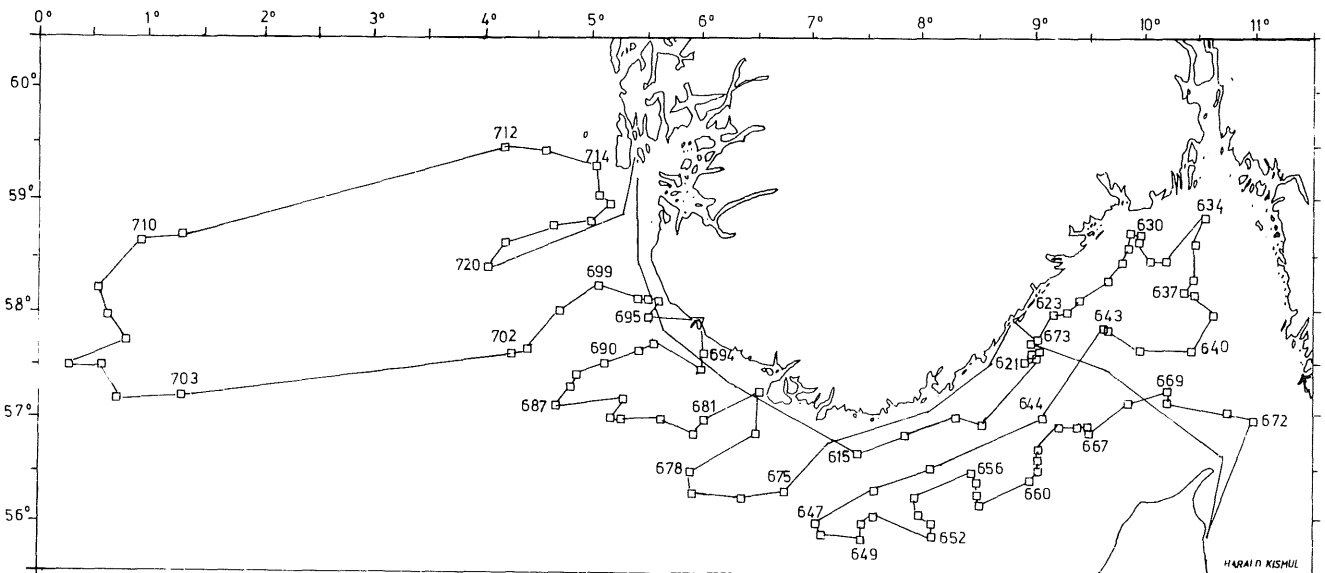
12 SEP.- 3 OCT. 1989 Δ □ TRAWL ST NO 586-614 ◇ 10 PLANKTON ST ▼ 2 GULF ST "MICHAEL SARS"

HARAI, KUMUL



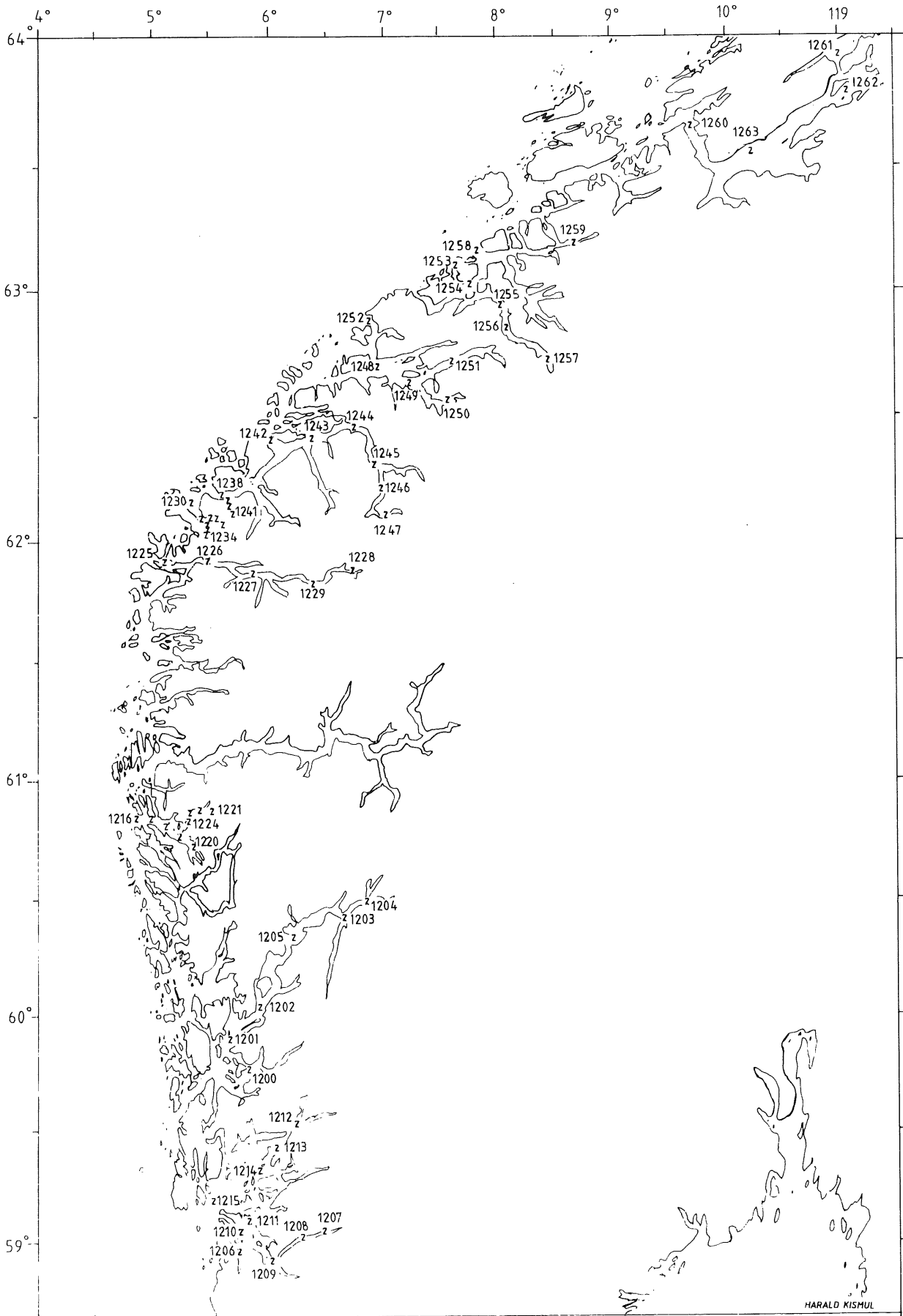
9-26 OCT. 1989 z CTD ST. NO. 1095-1199

'MICHAEL SARG'



9-26 OCT 1989 □ TRAWL ST NO 615-720.

'MICHAEL SARG'

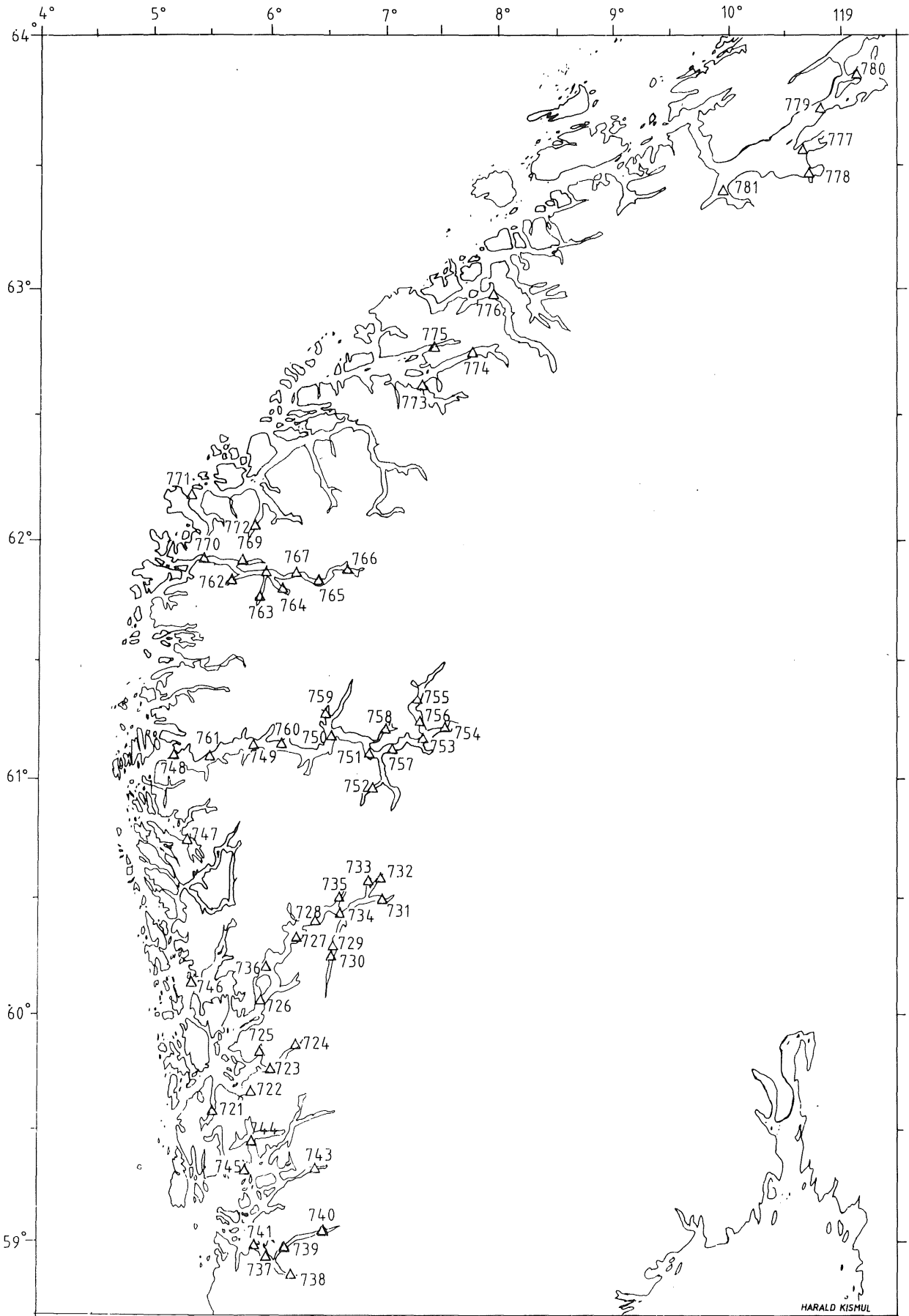


26 OCT - 4 DEC 1989    CTD ST NO 1200-1263

"MICHAEL SÄRS"

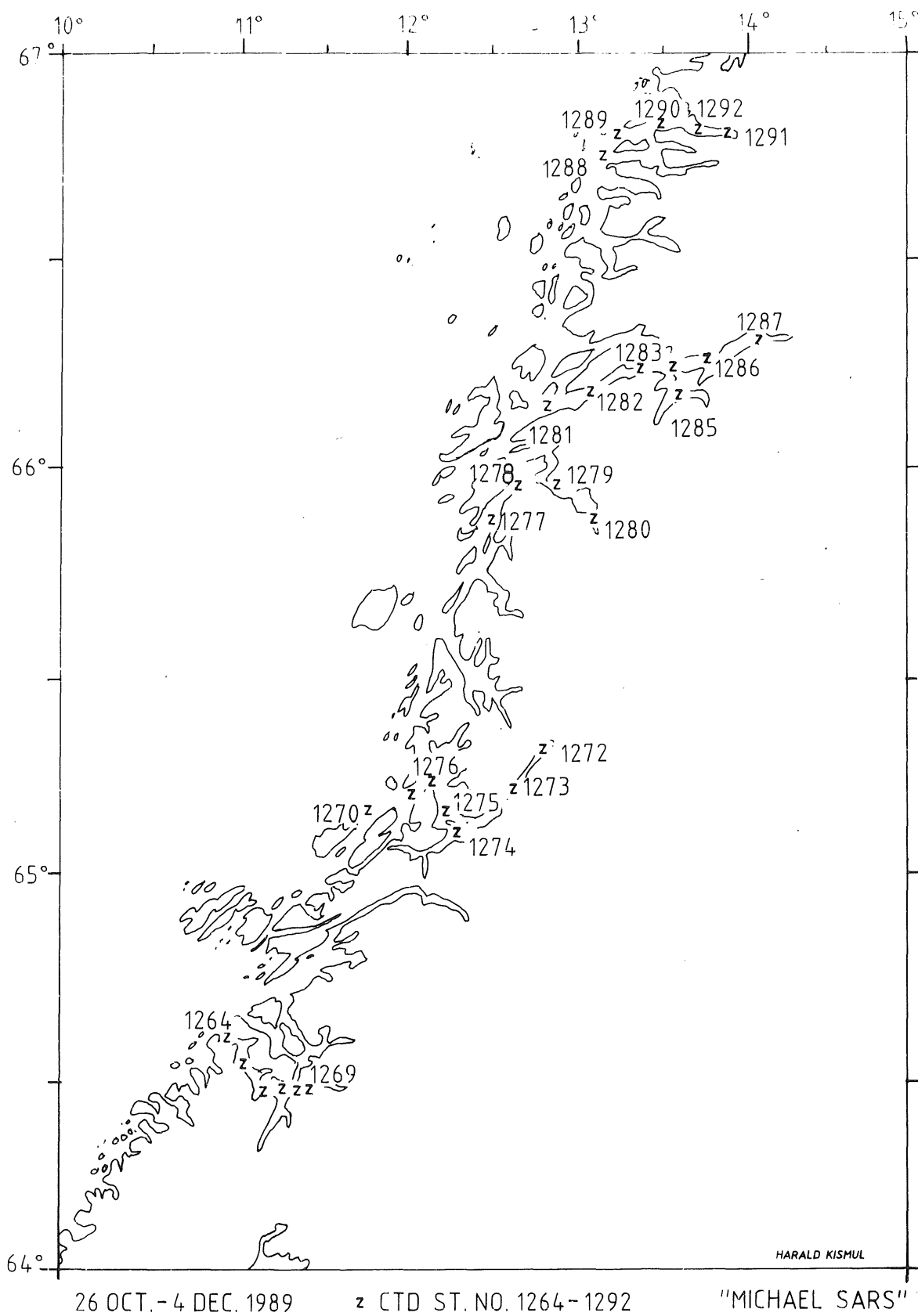
HARALD KISMUL

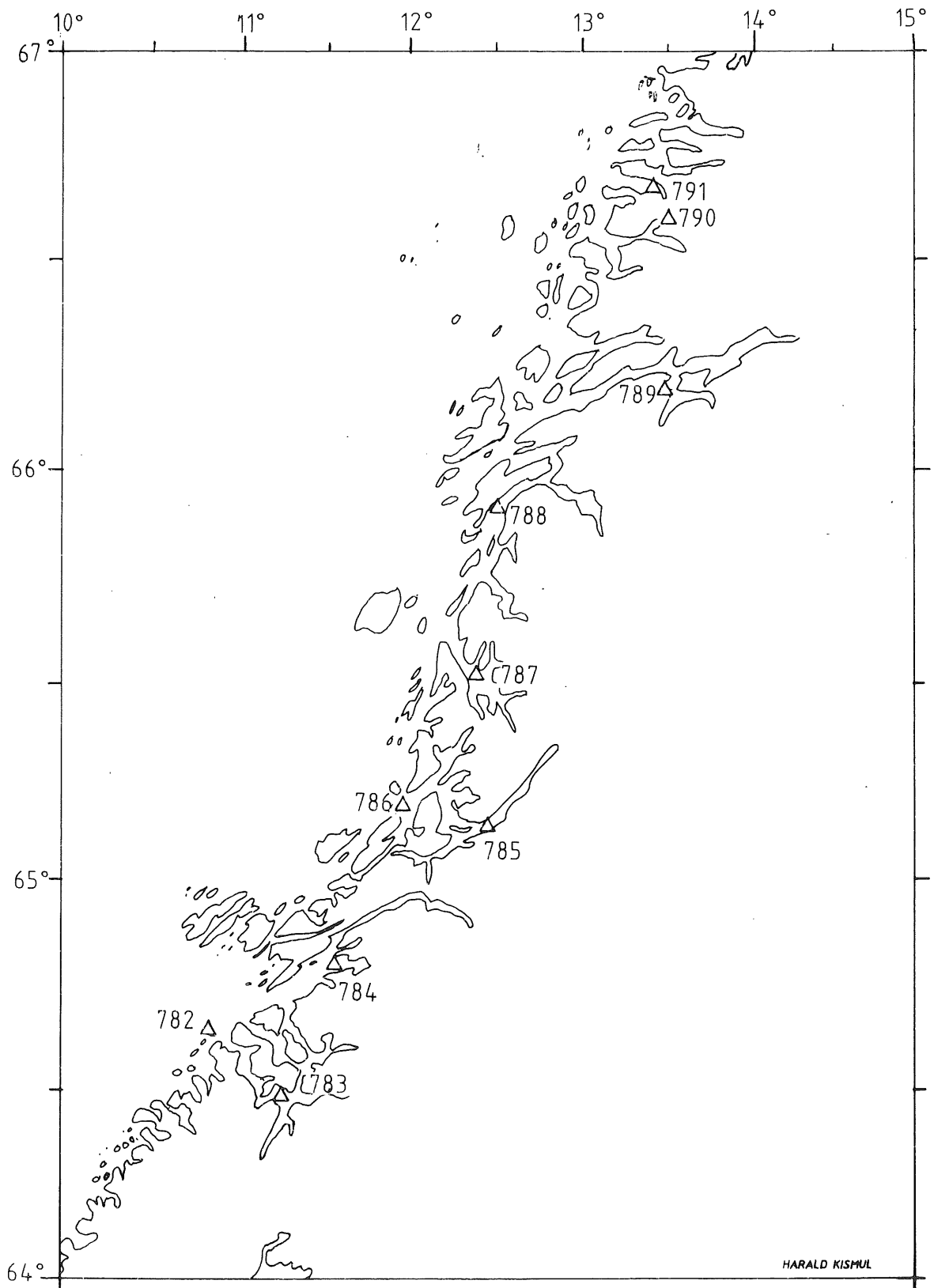




26 OCT.- 4 DEC 1989    Δ TRAWL ST. NO. 721-781

"MICHAEL SARS"



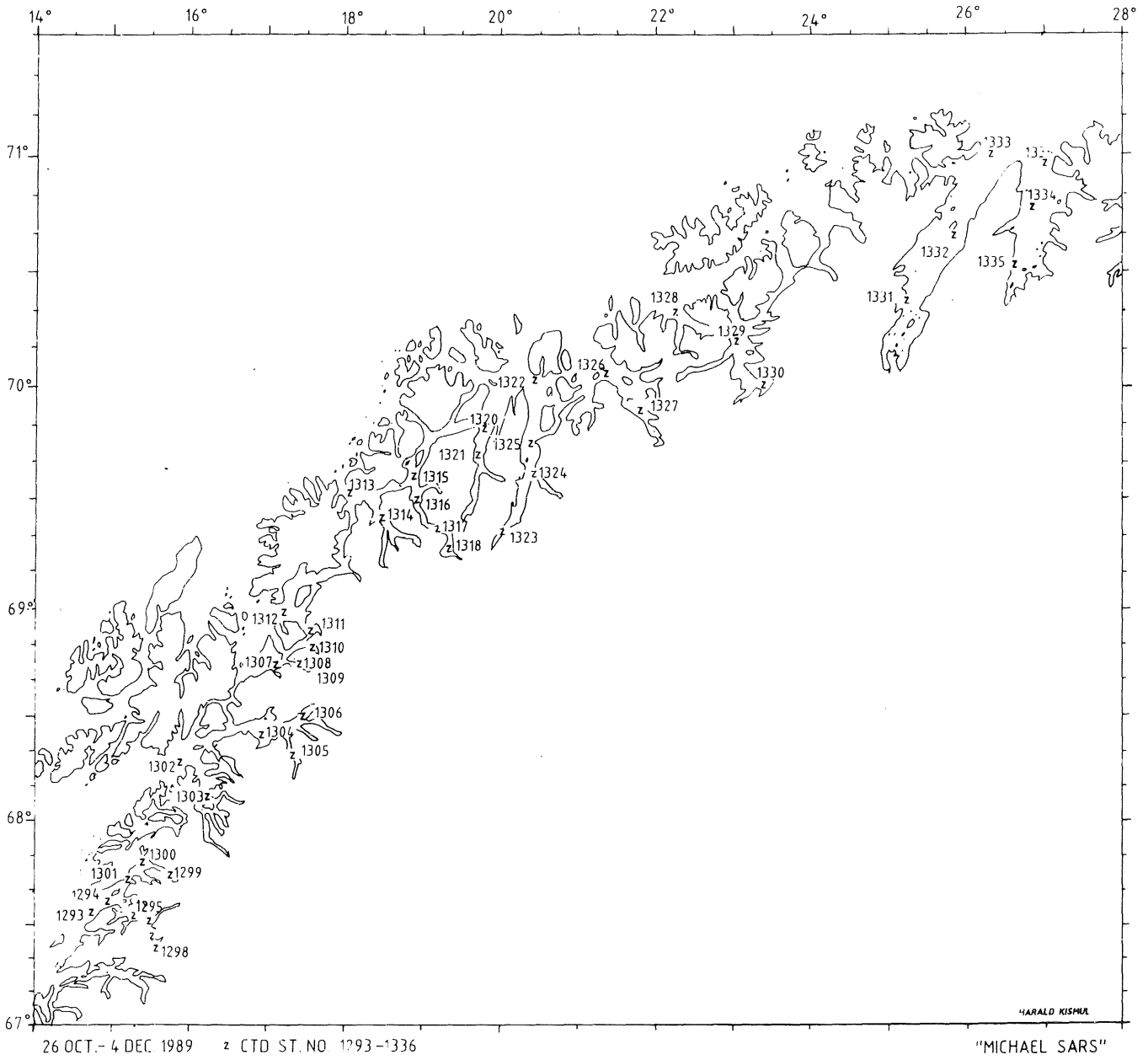


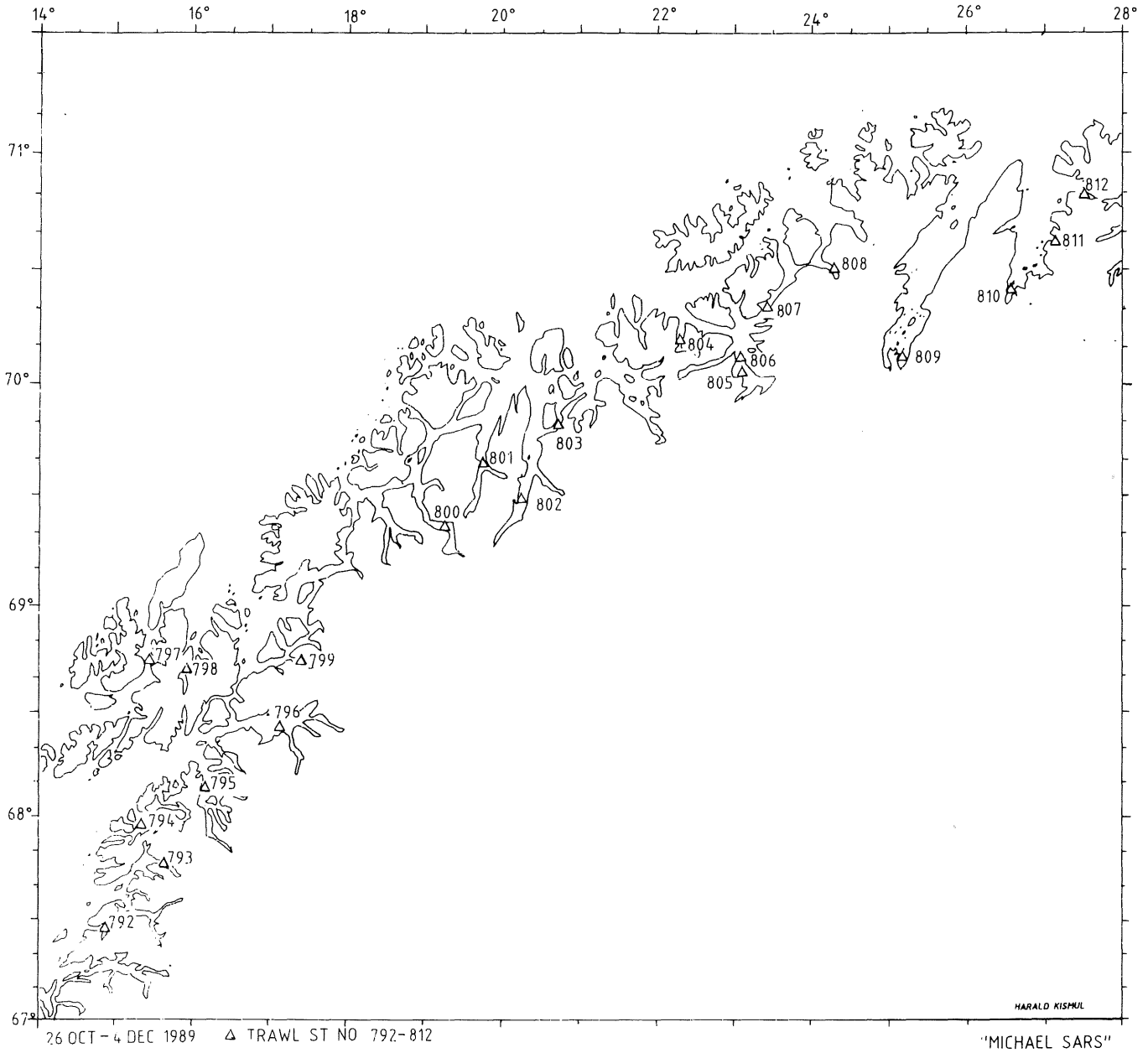
26 OCT.- 4 DEC. 1989

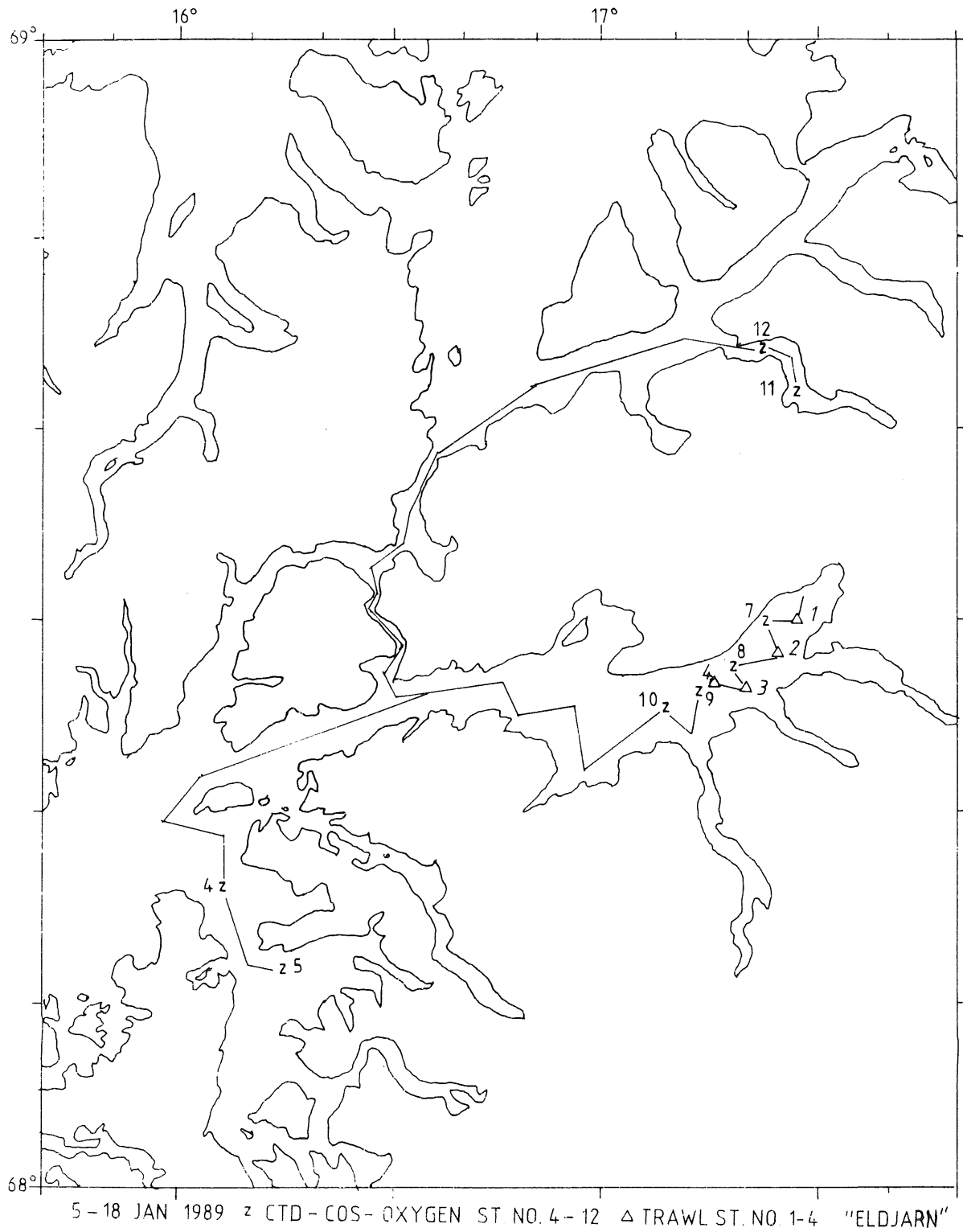
△ TRAWL ST. NO. 782-791

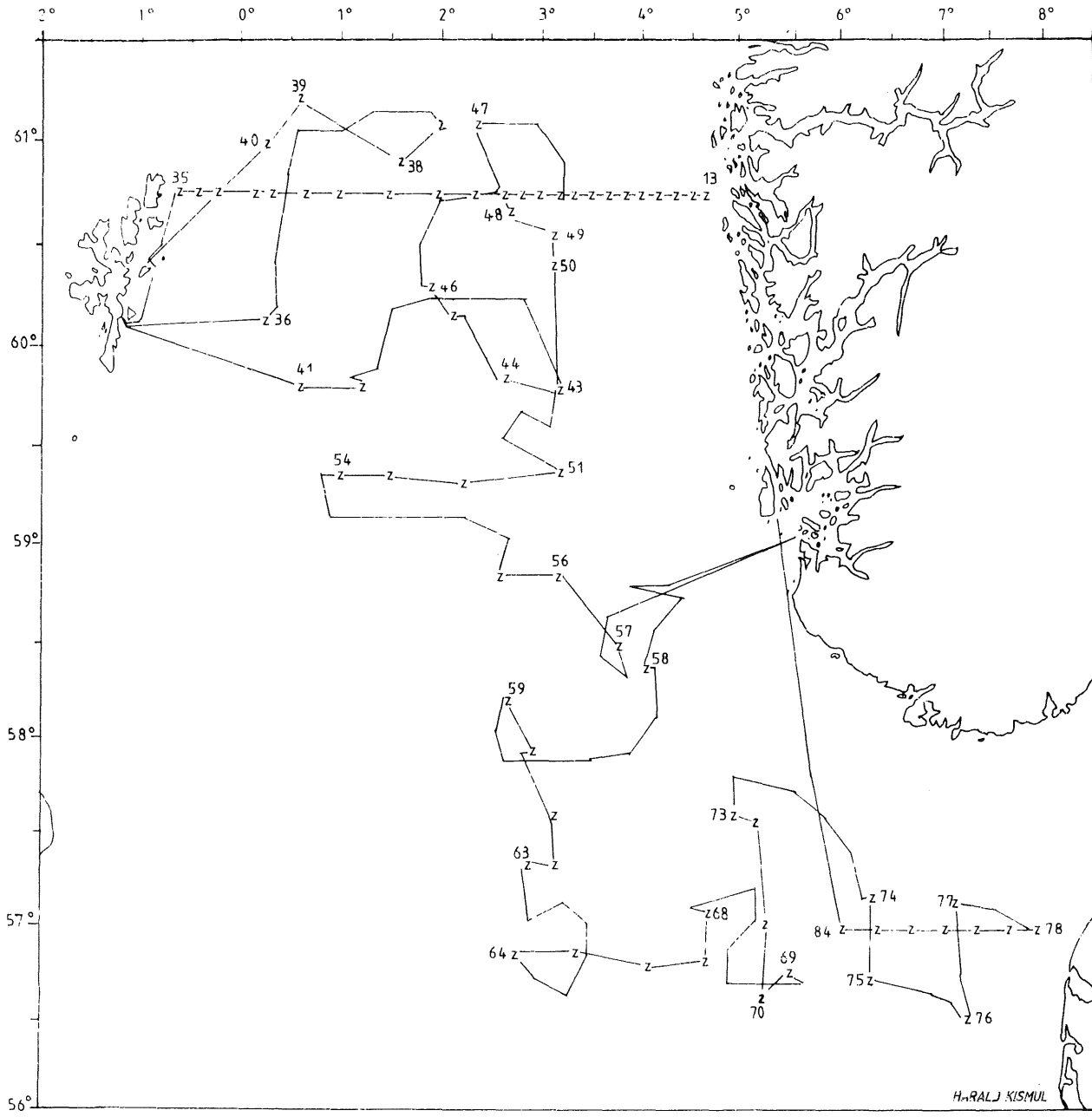
"MICHAEL SARS"

HARALD KISMUL



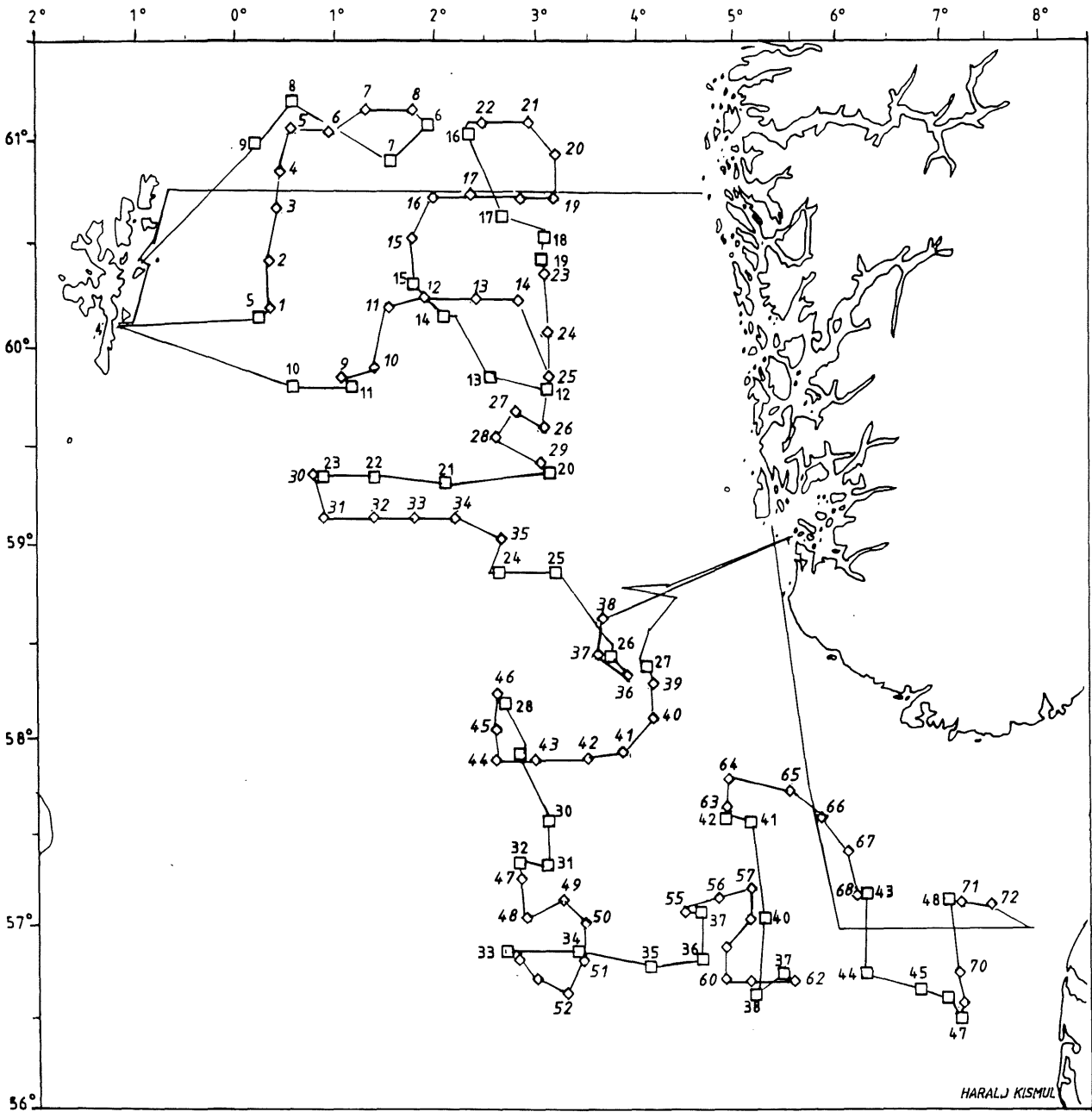






20 JAN - 13 FEB 1989 z (TD ST NO 13 - 84)

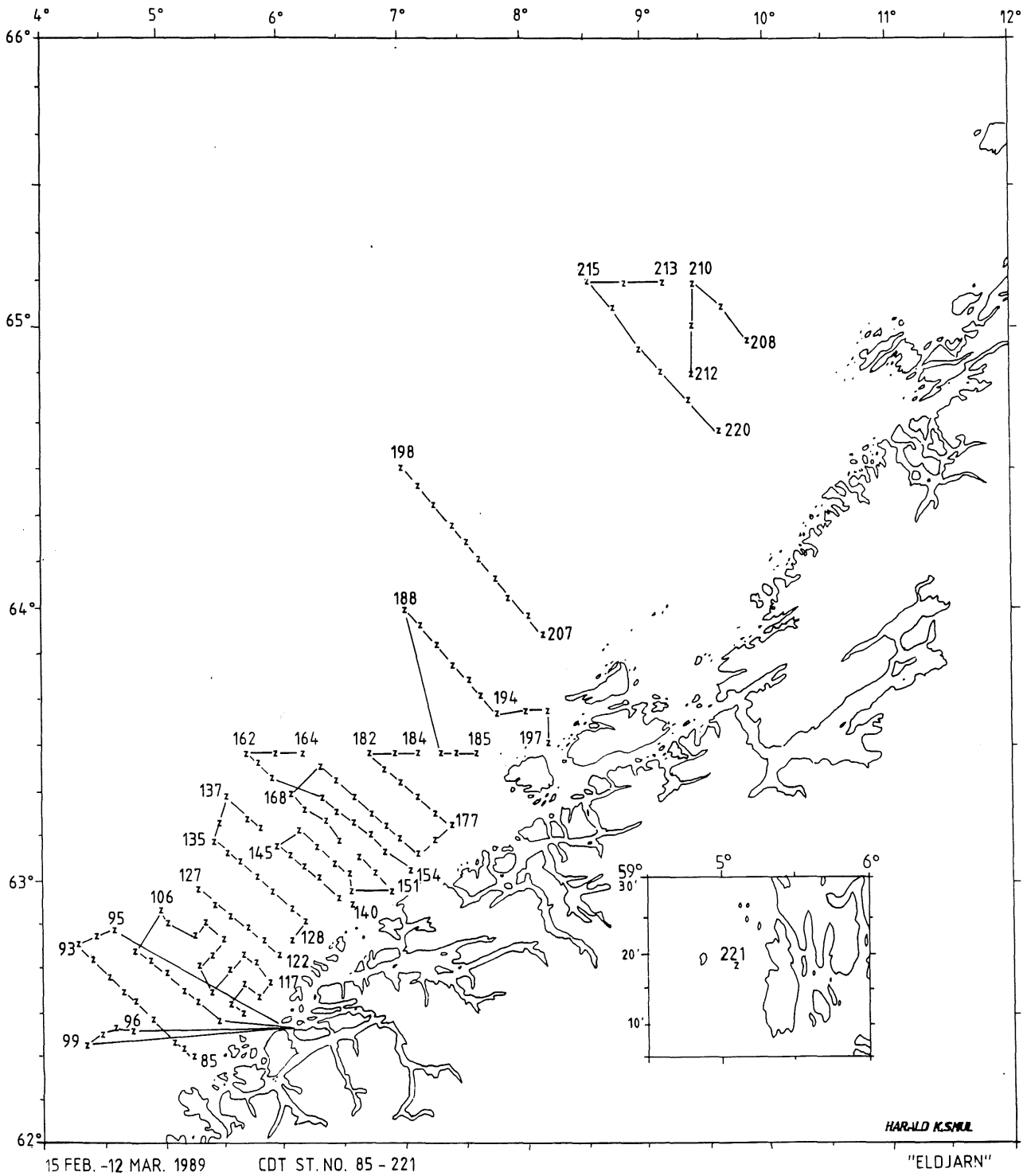
HARALD KISMUL  
"ELD JARN"

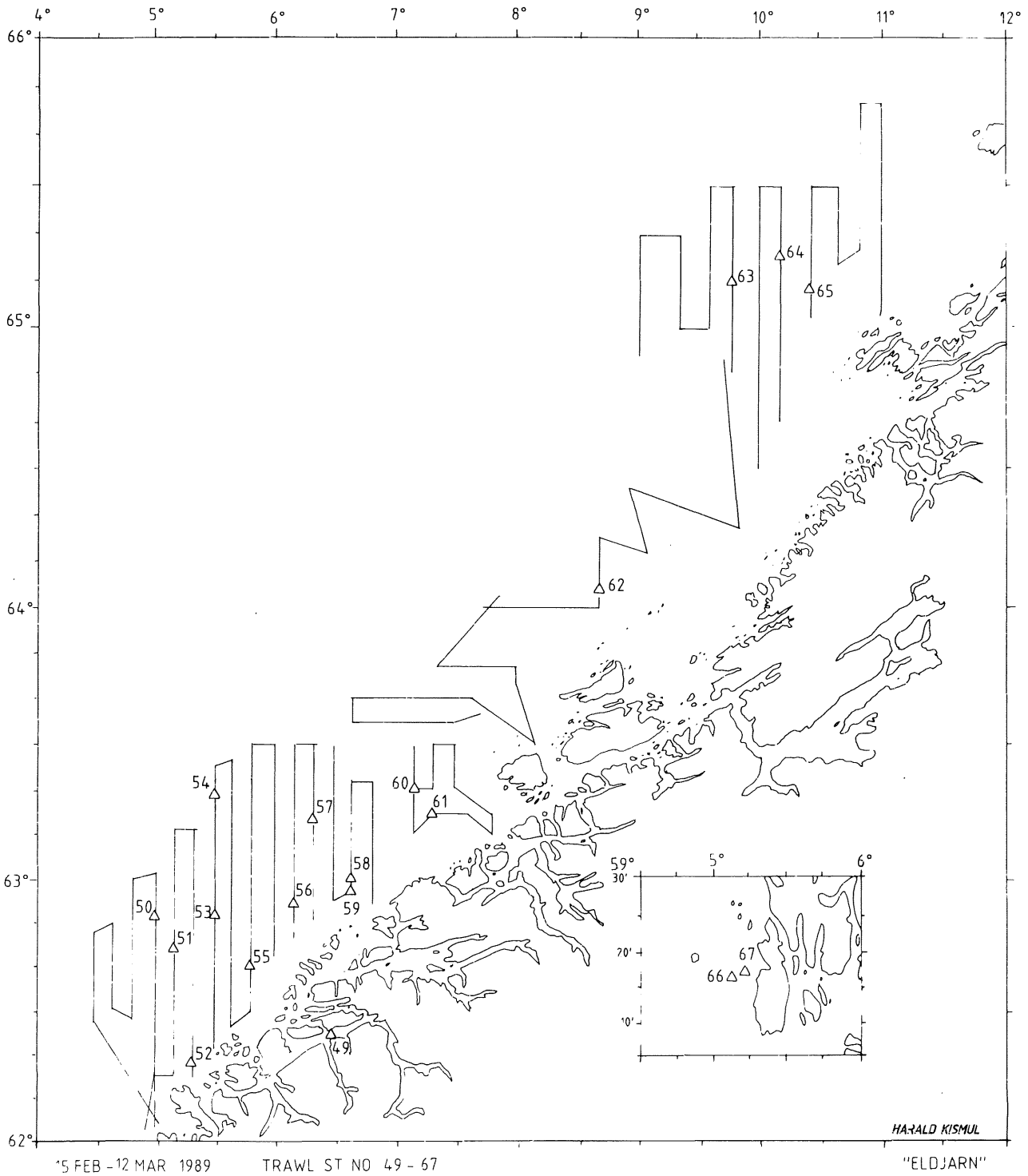


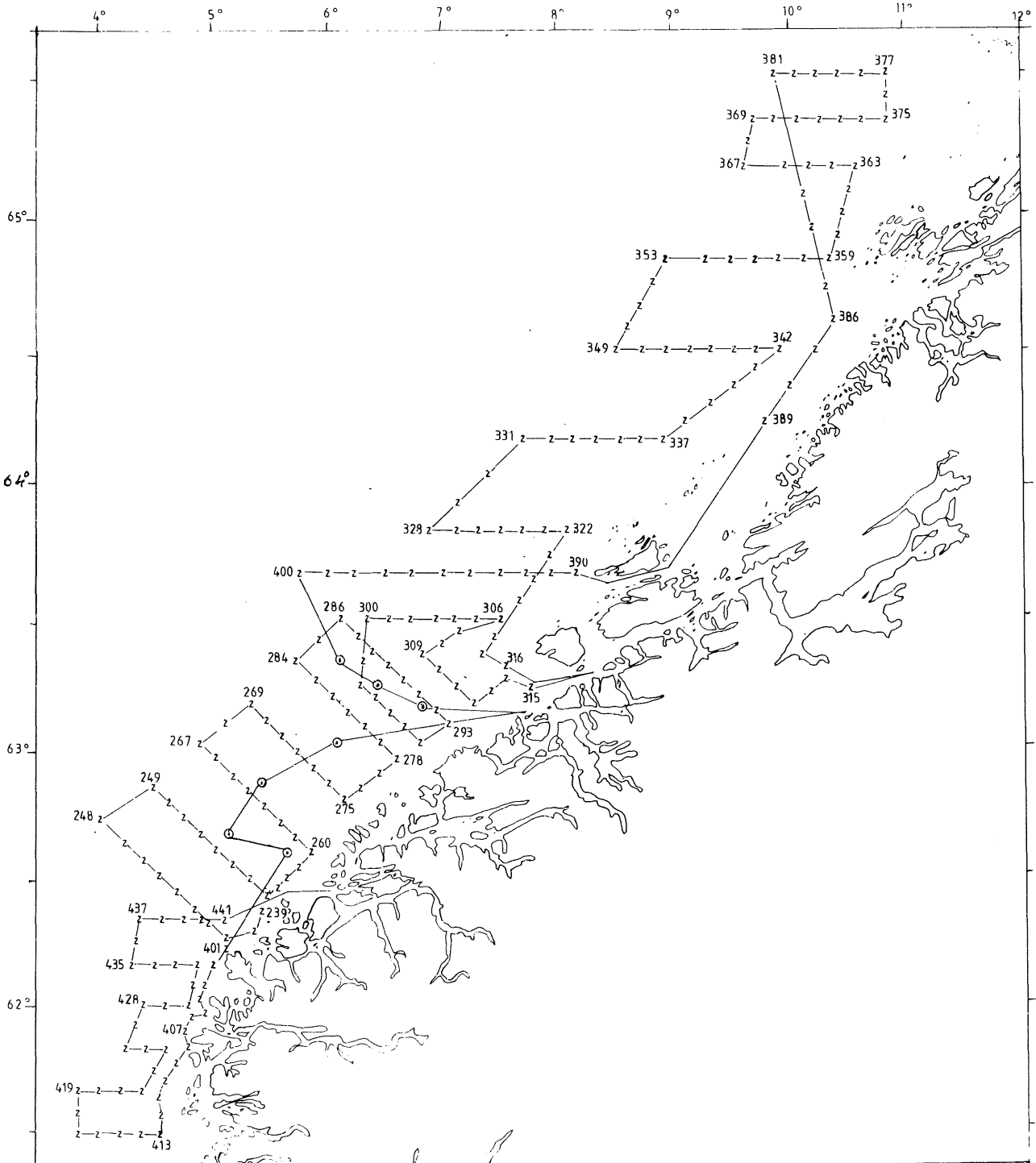
20 JAN. - 13 FEB. 1989    □ BOTTOM TRAWL ST.NO. 5-48    ◇ ISAAC KIDD ST. NO. 1-71

"ELDJARN"



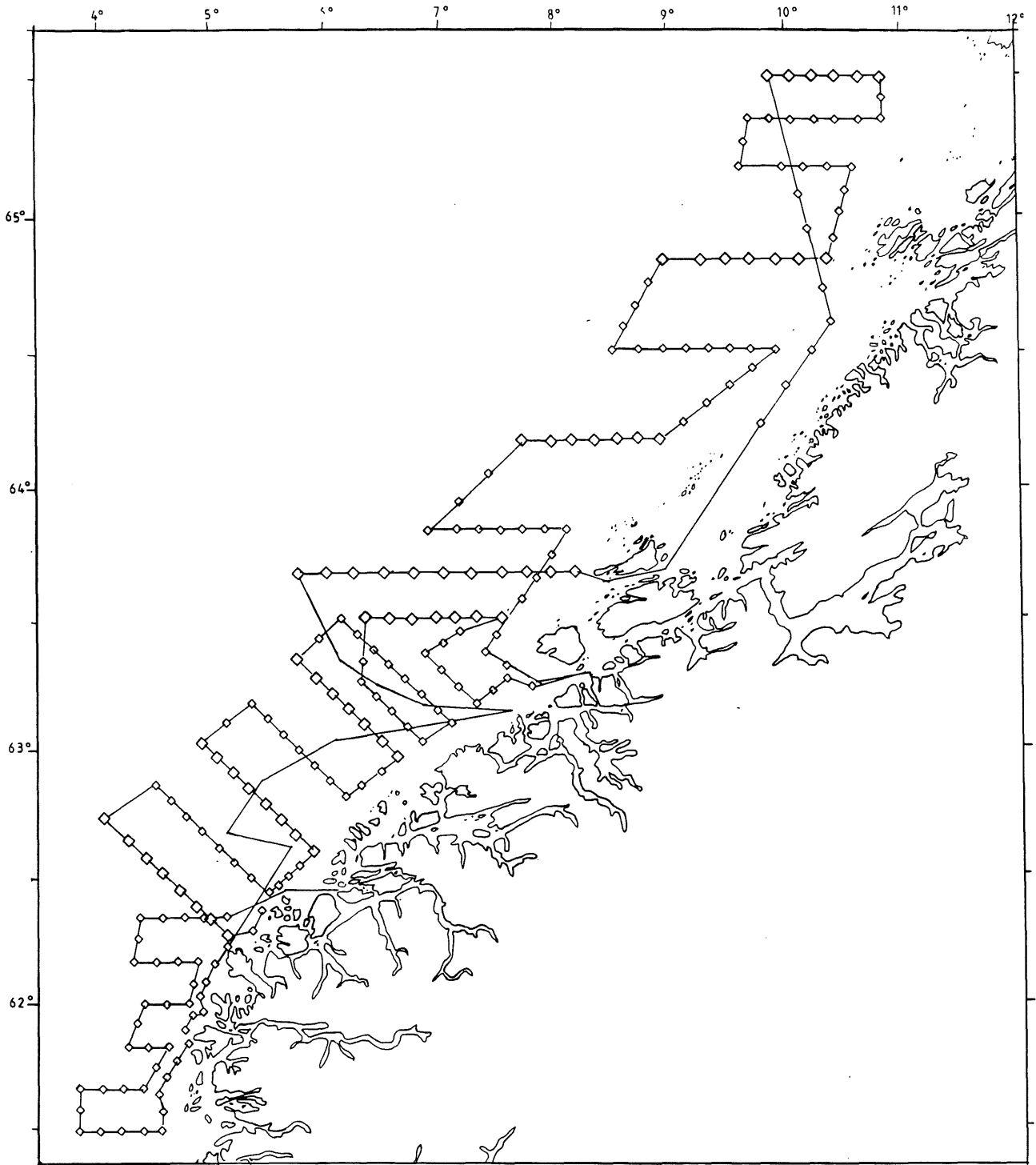




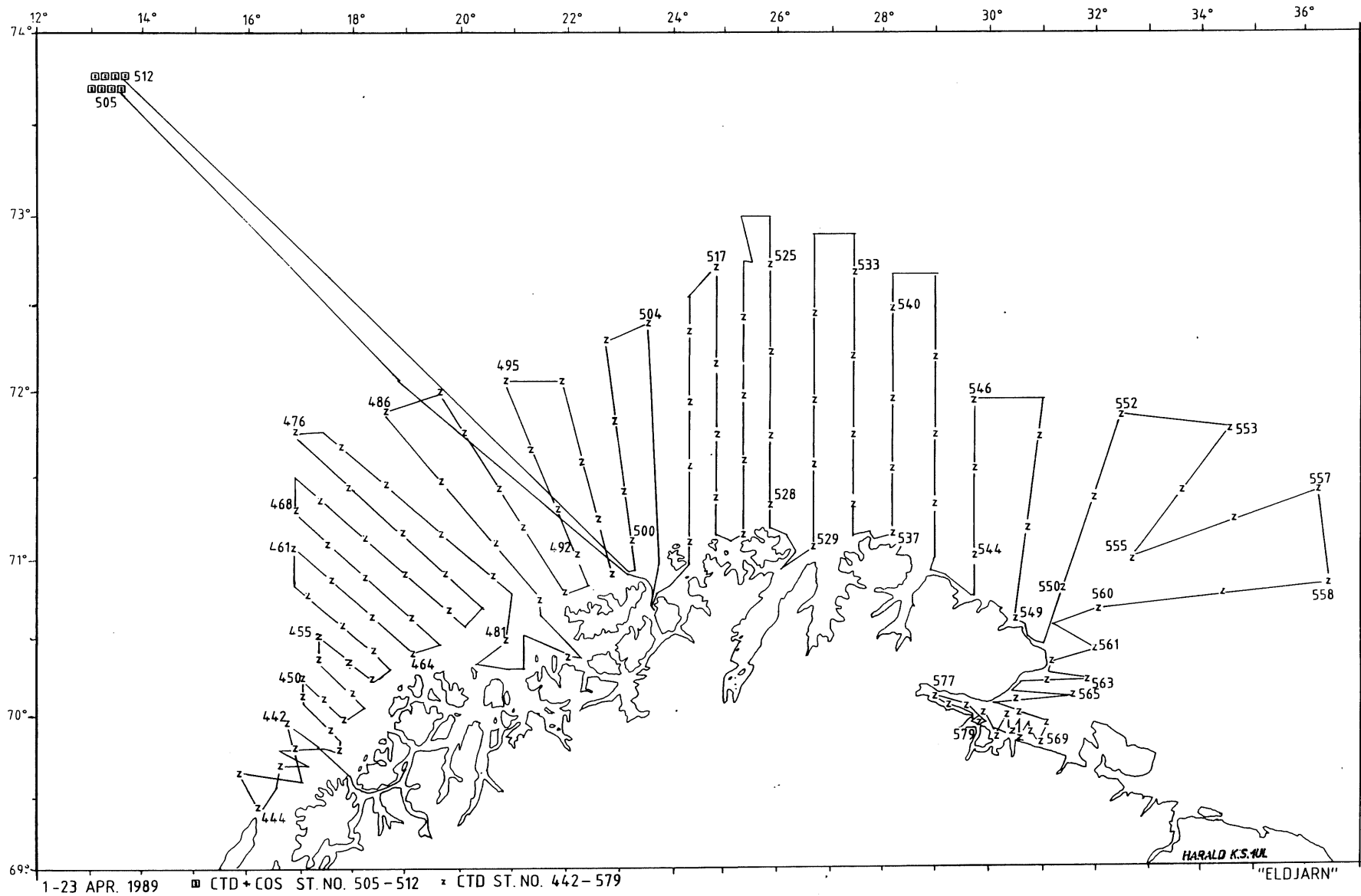


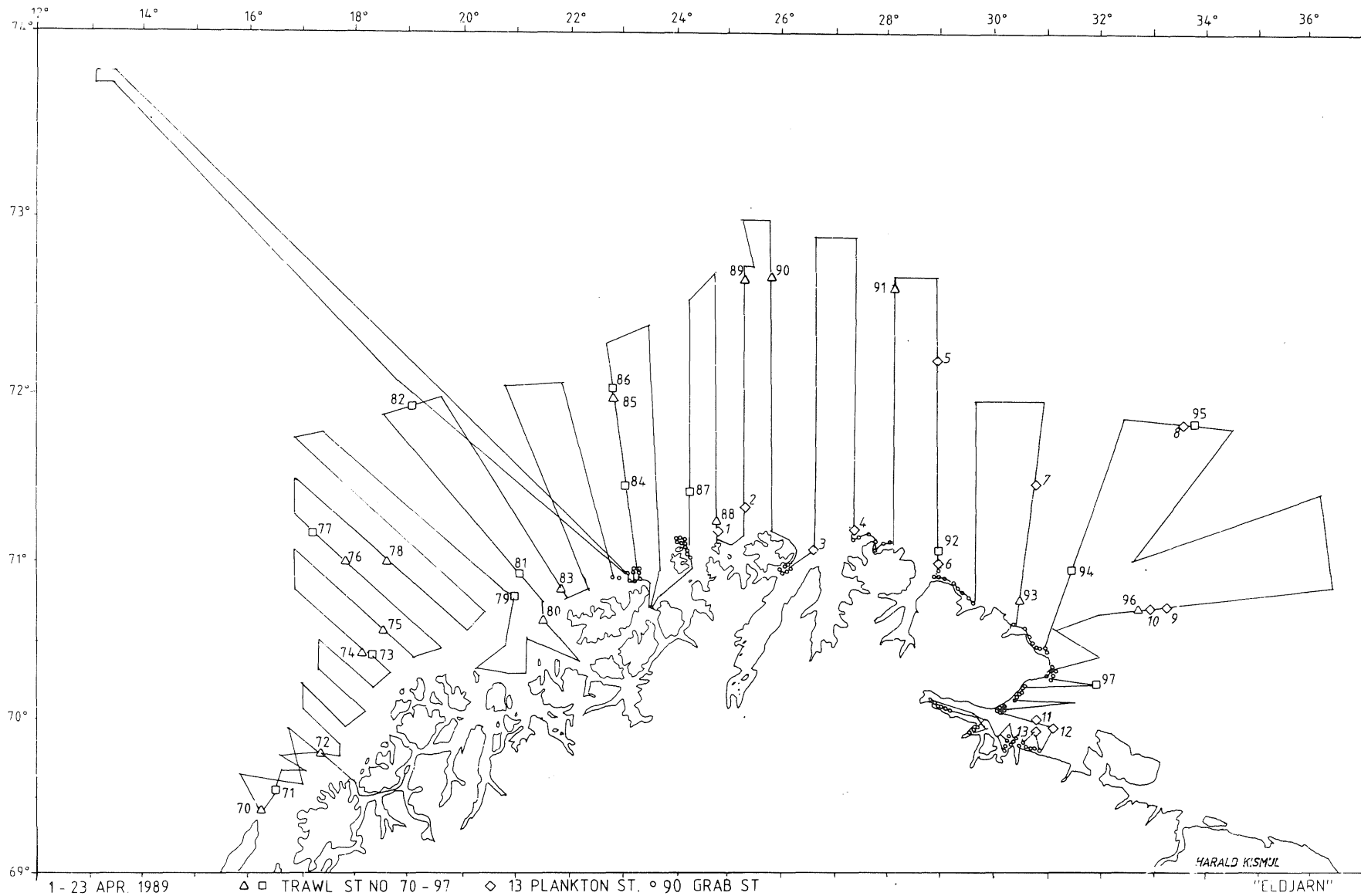
19-29 MAR 1989 z CTD ST.NO 293-441 o 7 ARGOS DRIFTERS

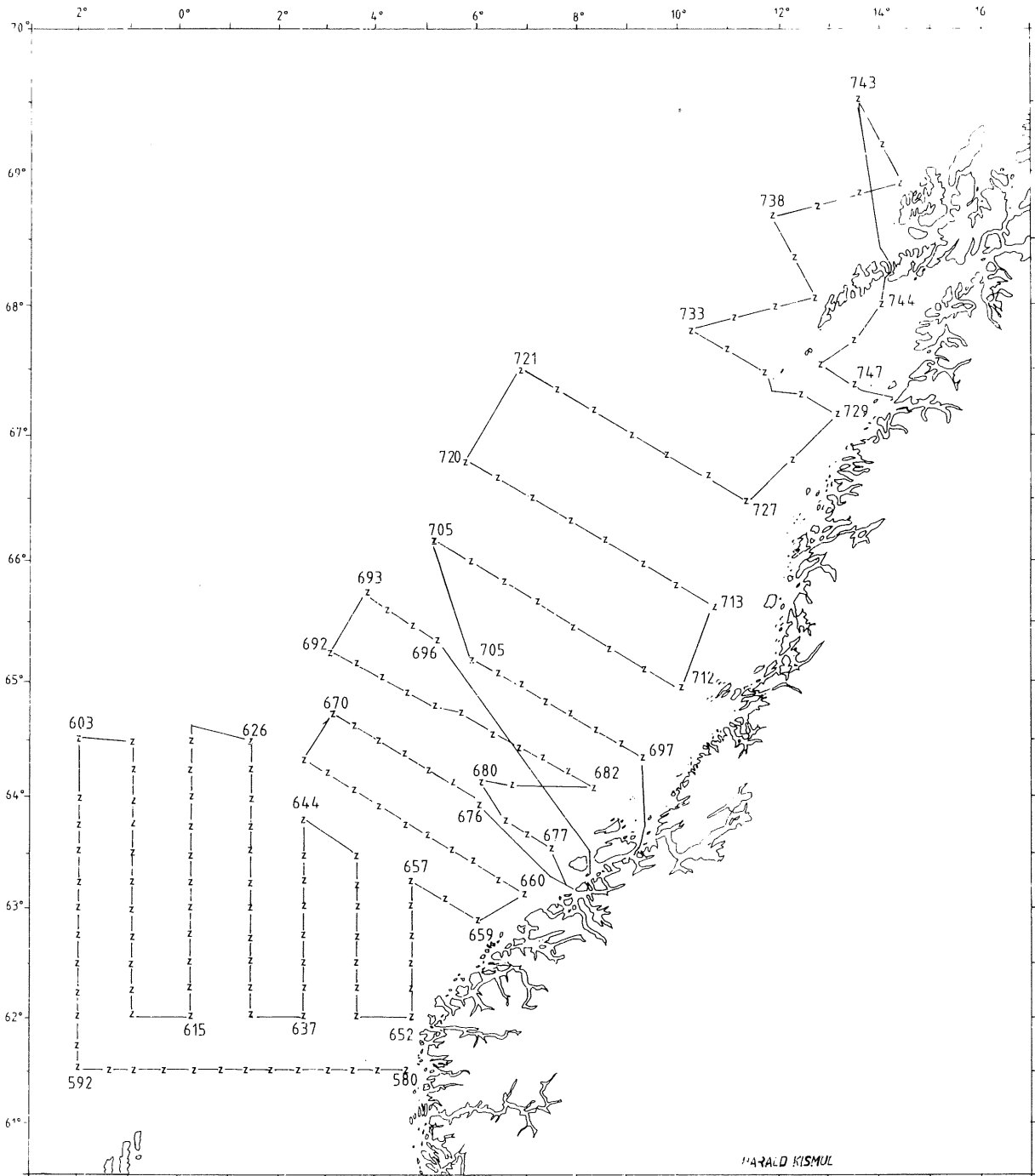
"ELDJARN"



19- 29 MAR. 1989 ◇ 61 NUTRIENTS - CHLOROPHYLL - PLANKTON - LARVAL NET ST. ◇ 149 PLANKTON - LARVAL NET ST. "ELDJARN

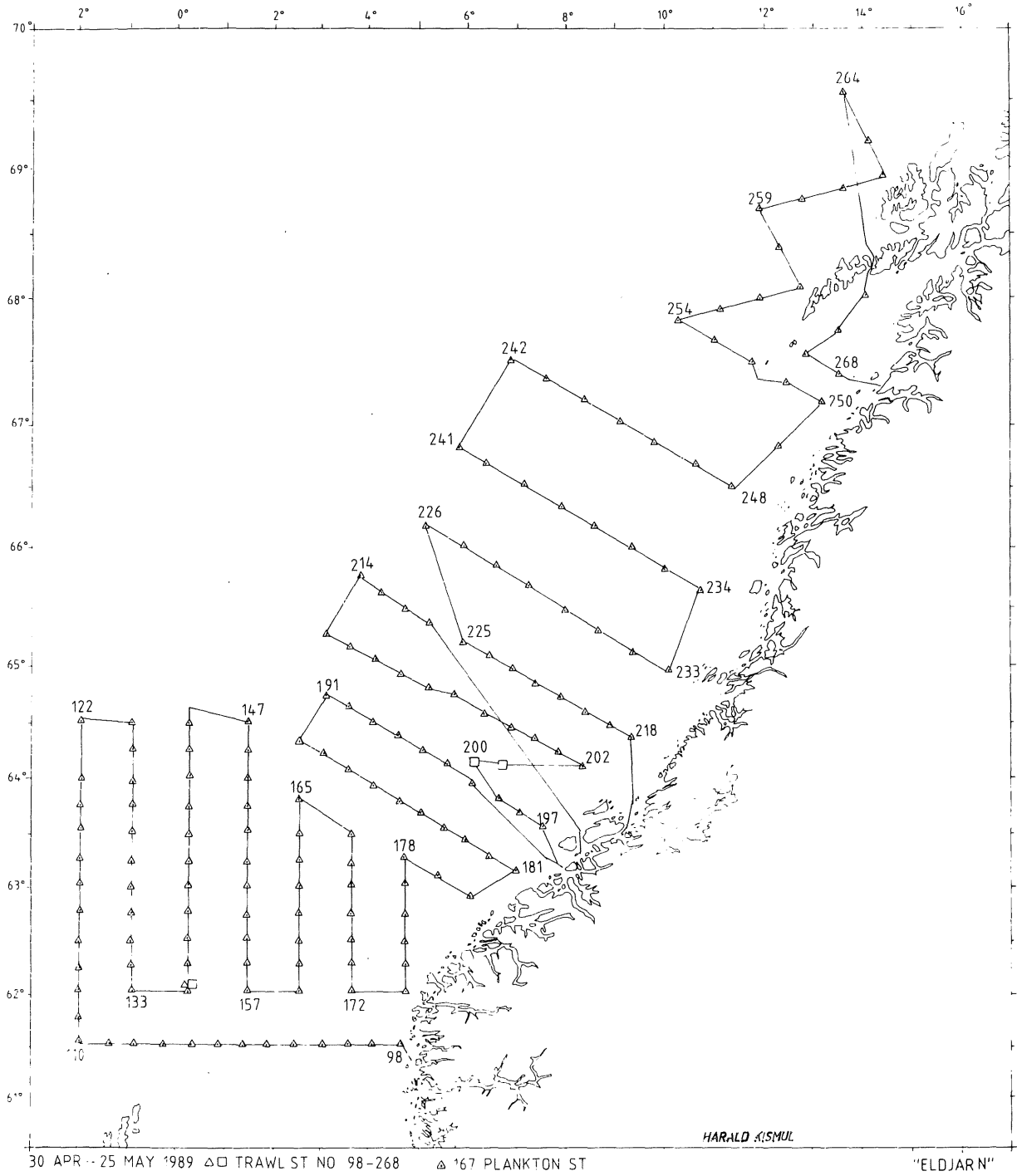






30 APR - 25 MAY 1989 \* CTD ST NO 580-747

"ELDJARIN"

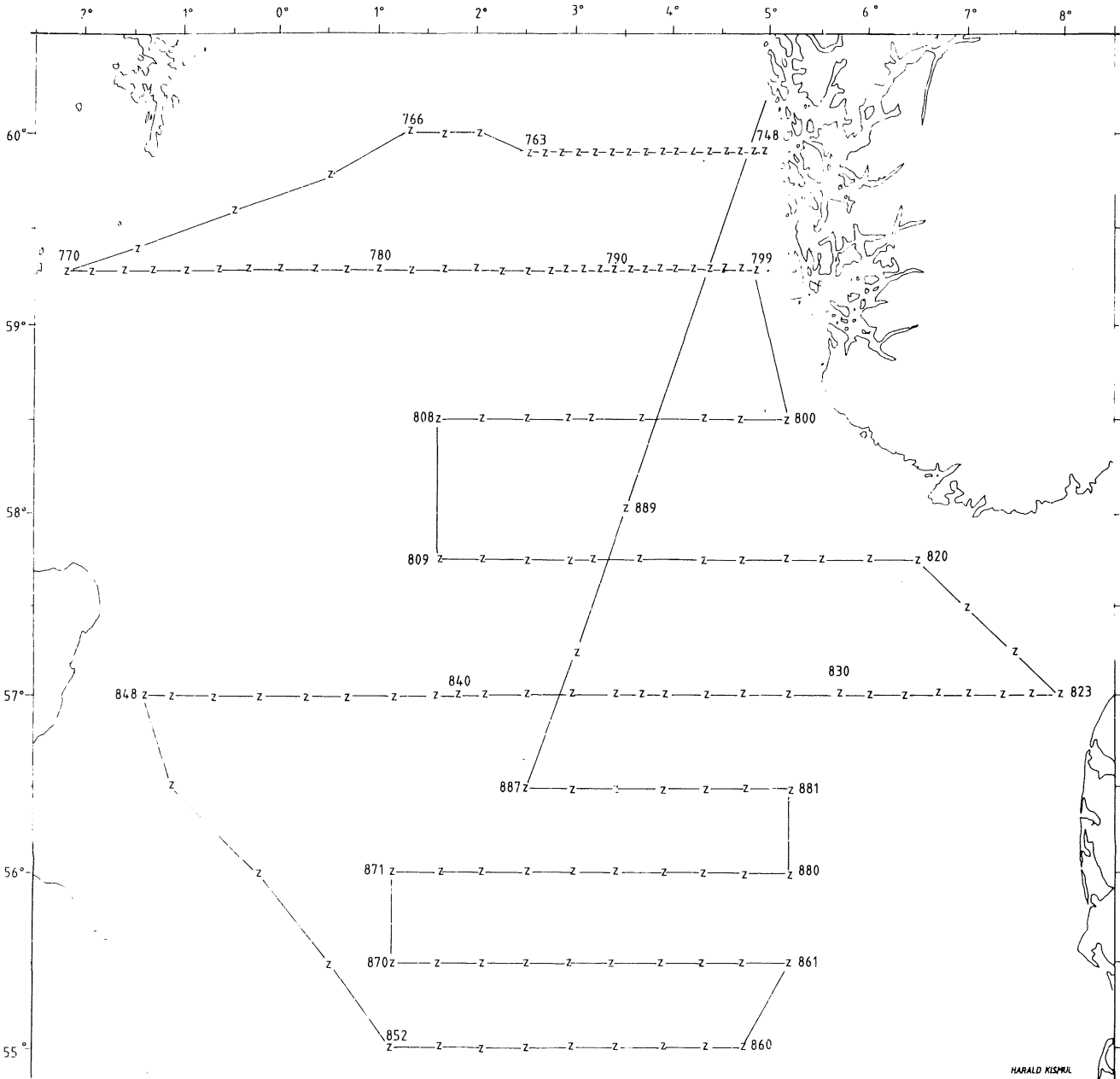


30 APR - 25 MAY 1989  $\triangle$   $\square$  TRAWL ST NO 98-268  $\triangle$  167 PLANKTON ST

HARALD ASMUL

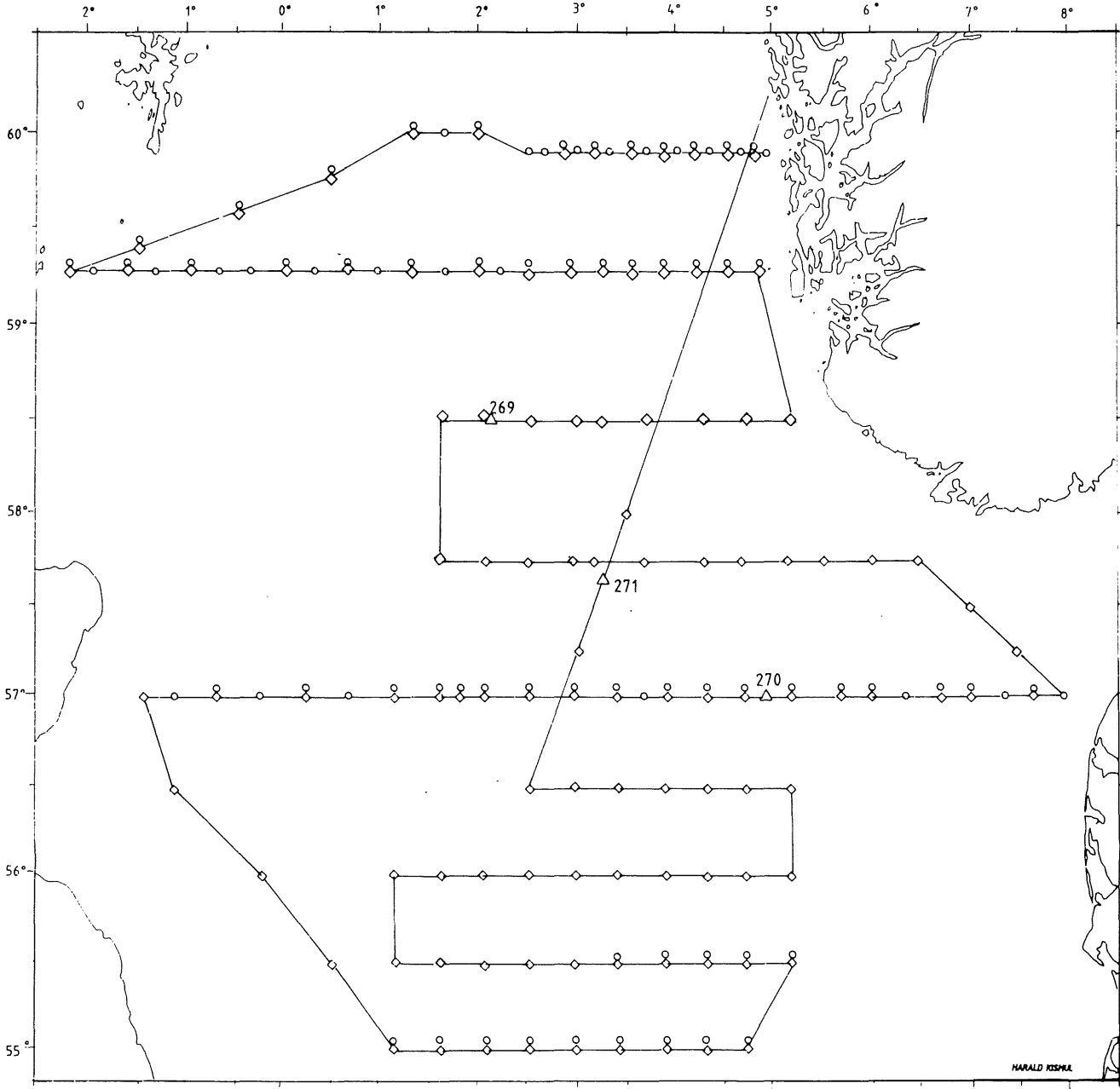
"ELDJARIN"





16-27 JUN 1989    z CTD ST NO 748-889

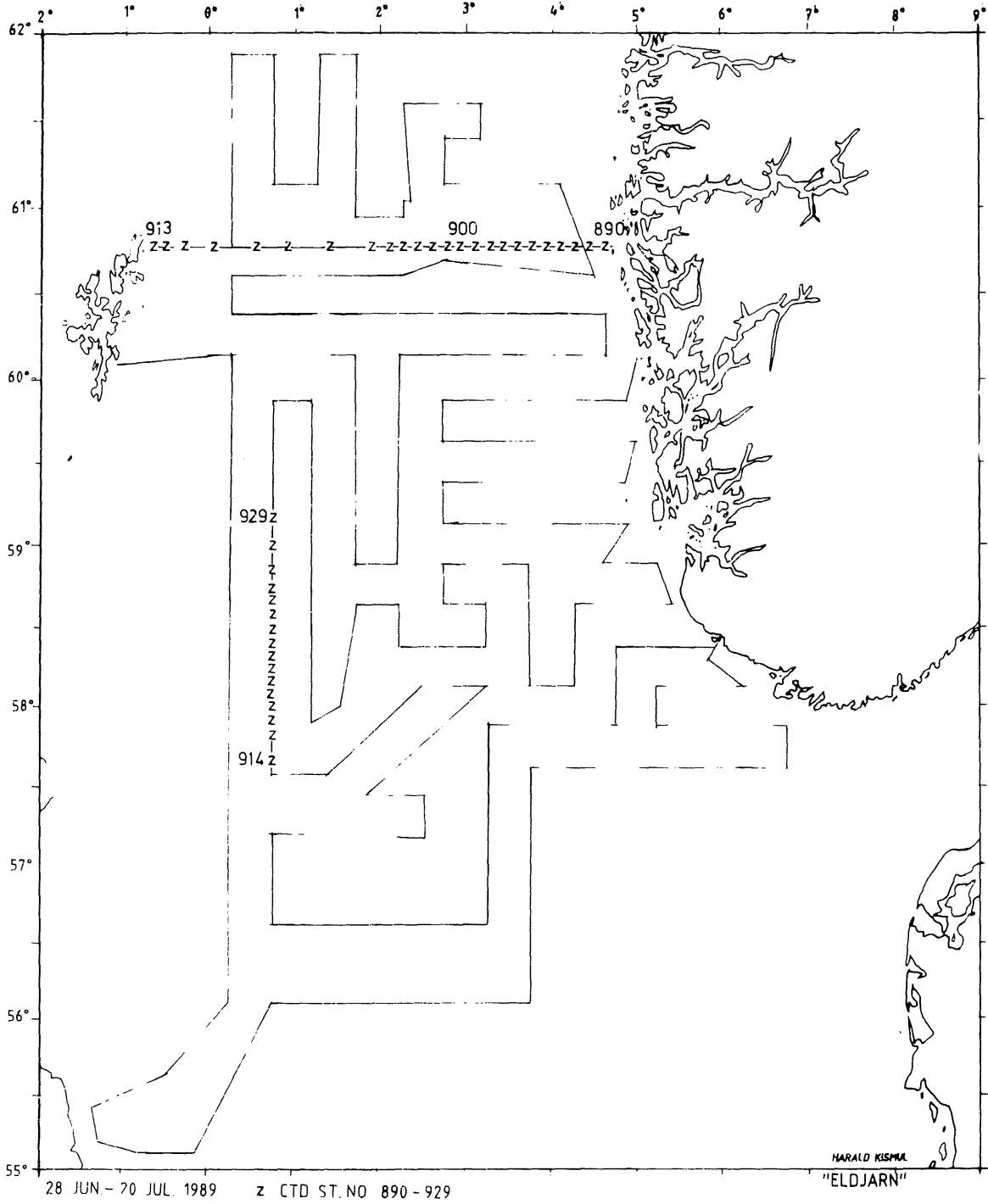
"ELDJARIN"

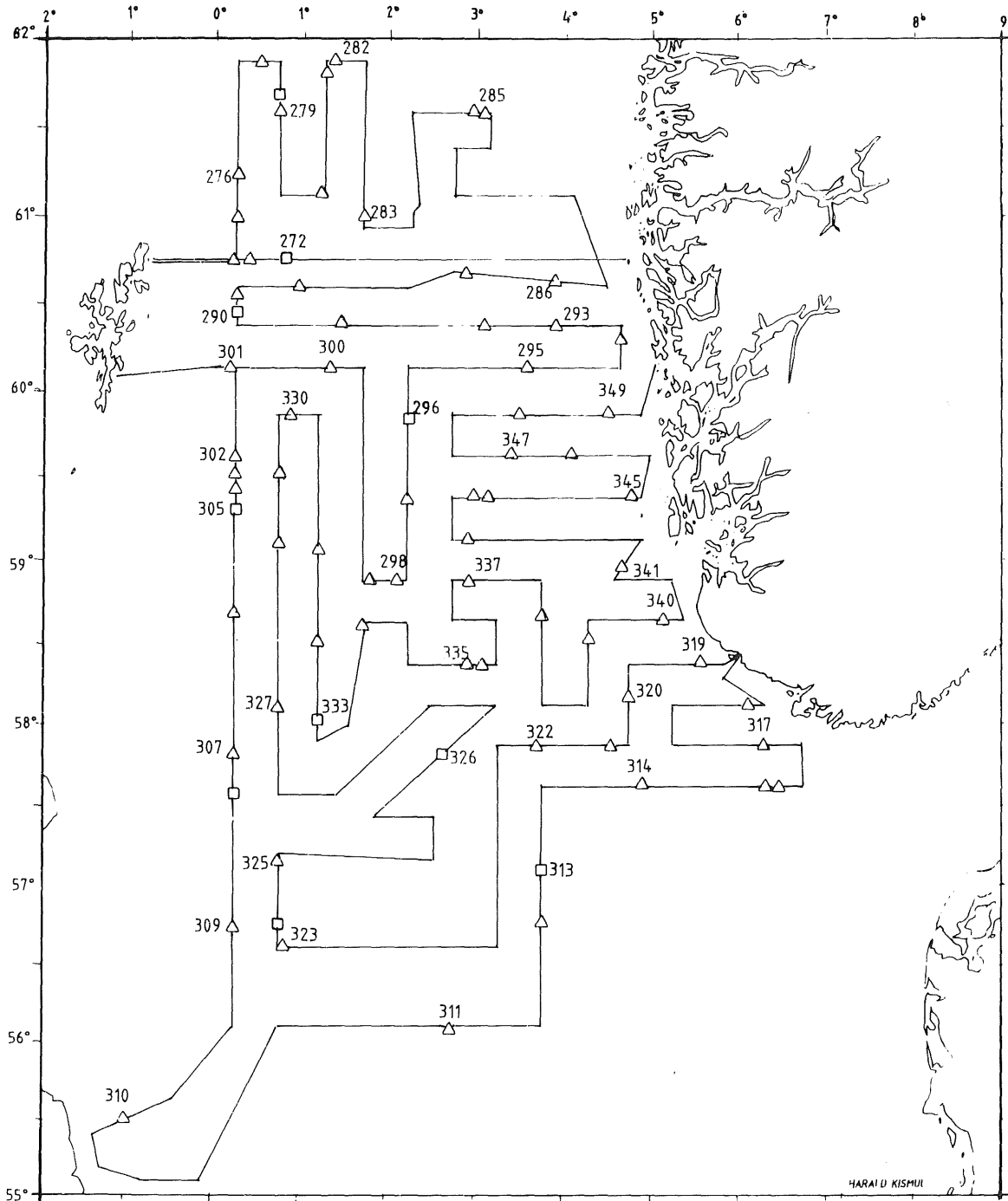


16-27 JUN. 1989  $\Delta$  TRAWL ST. NO. 269-271  $\diamond$  110 EGGS AND LARVAE ST  $\circ$  84 NUTRIENTS ST.

HARALD KESPEL

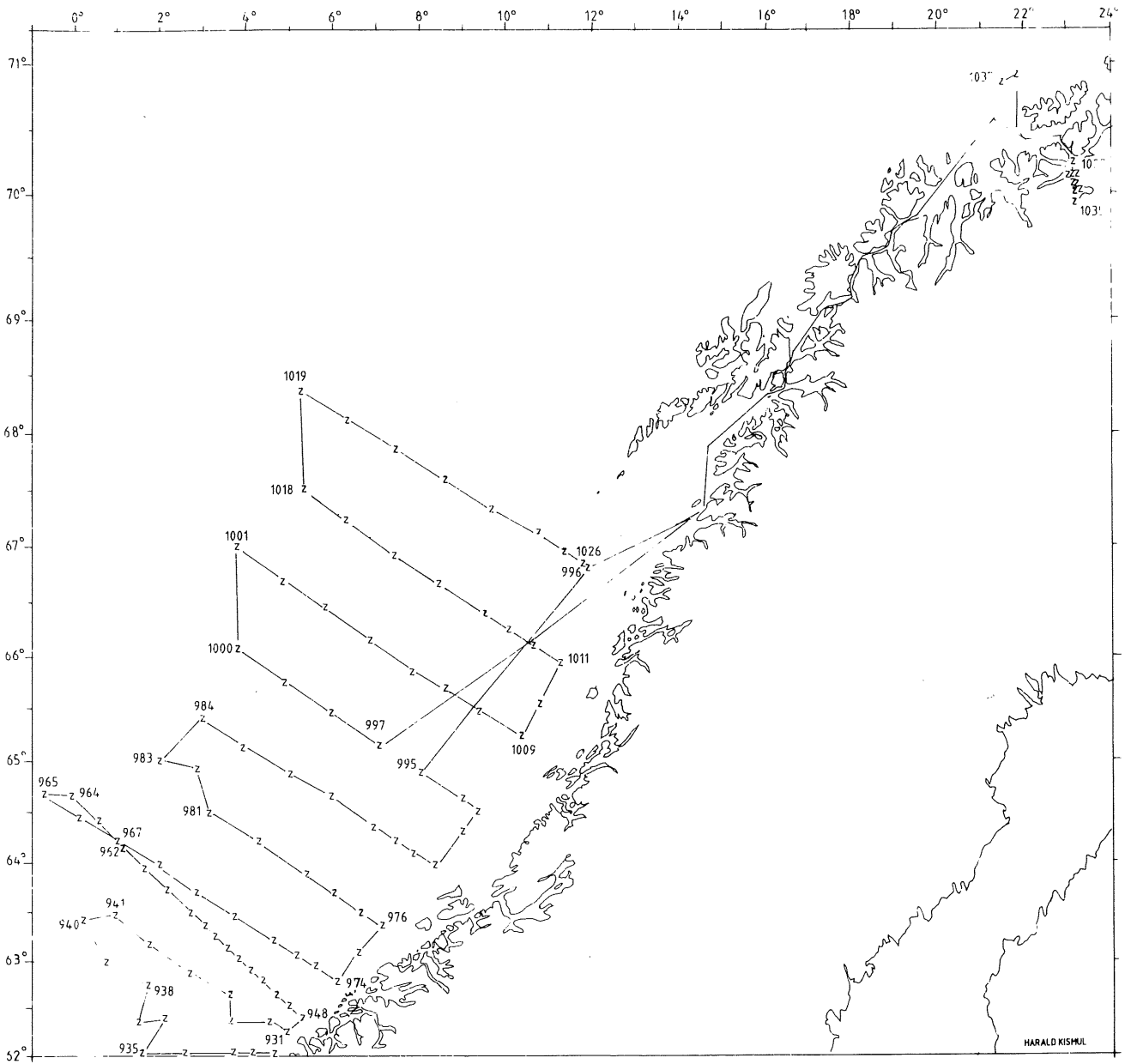
"ELDJARN"

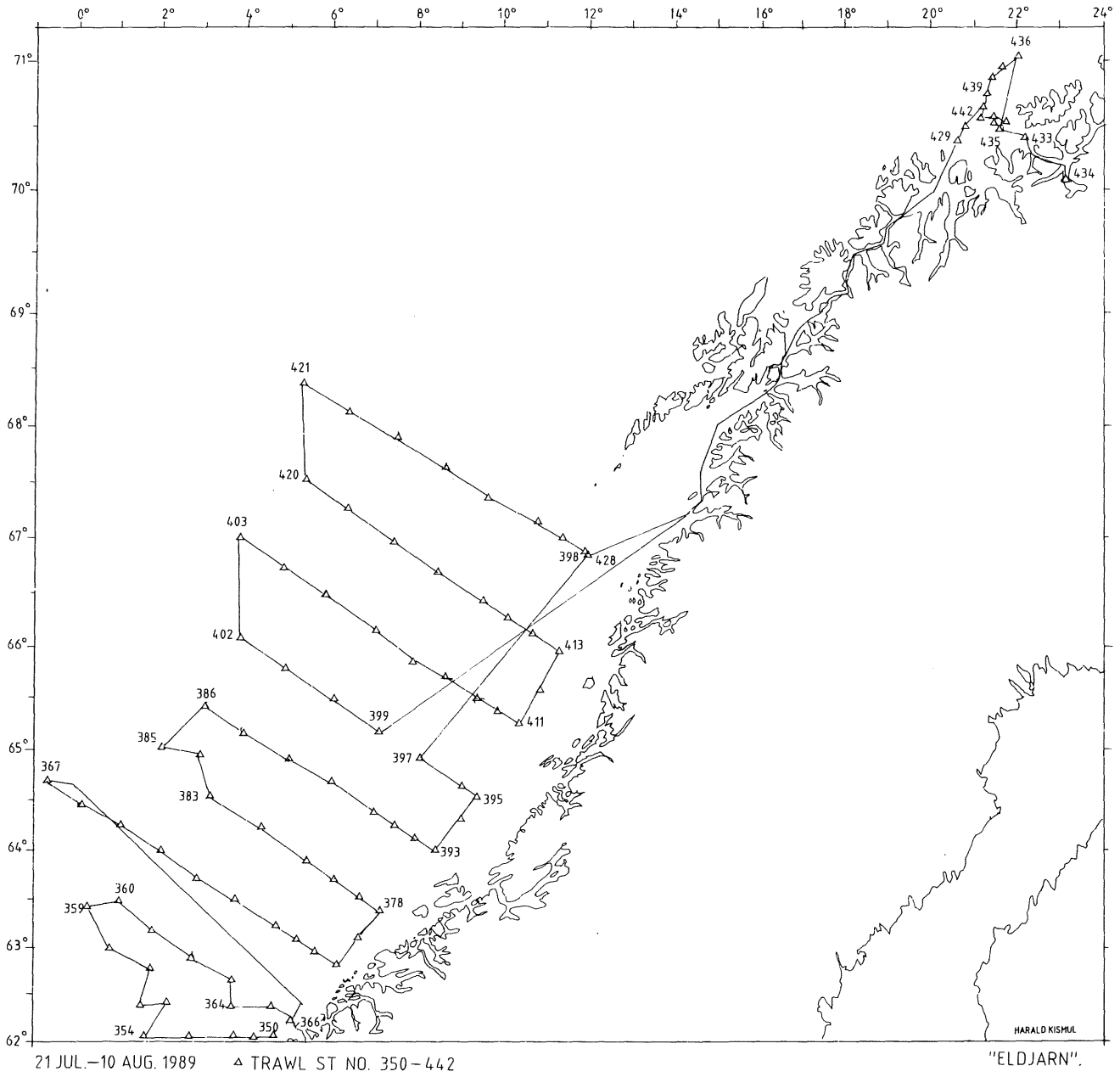


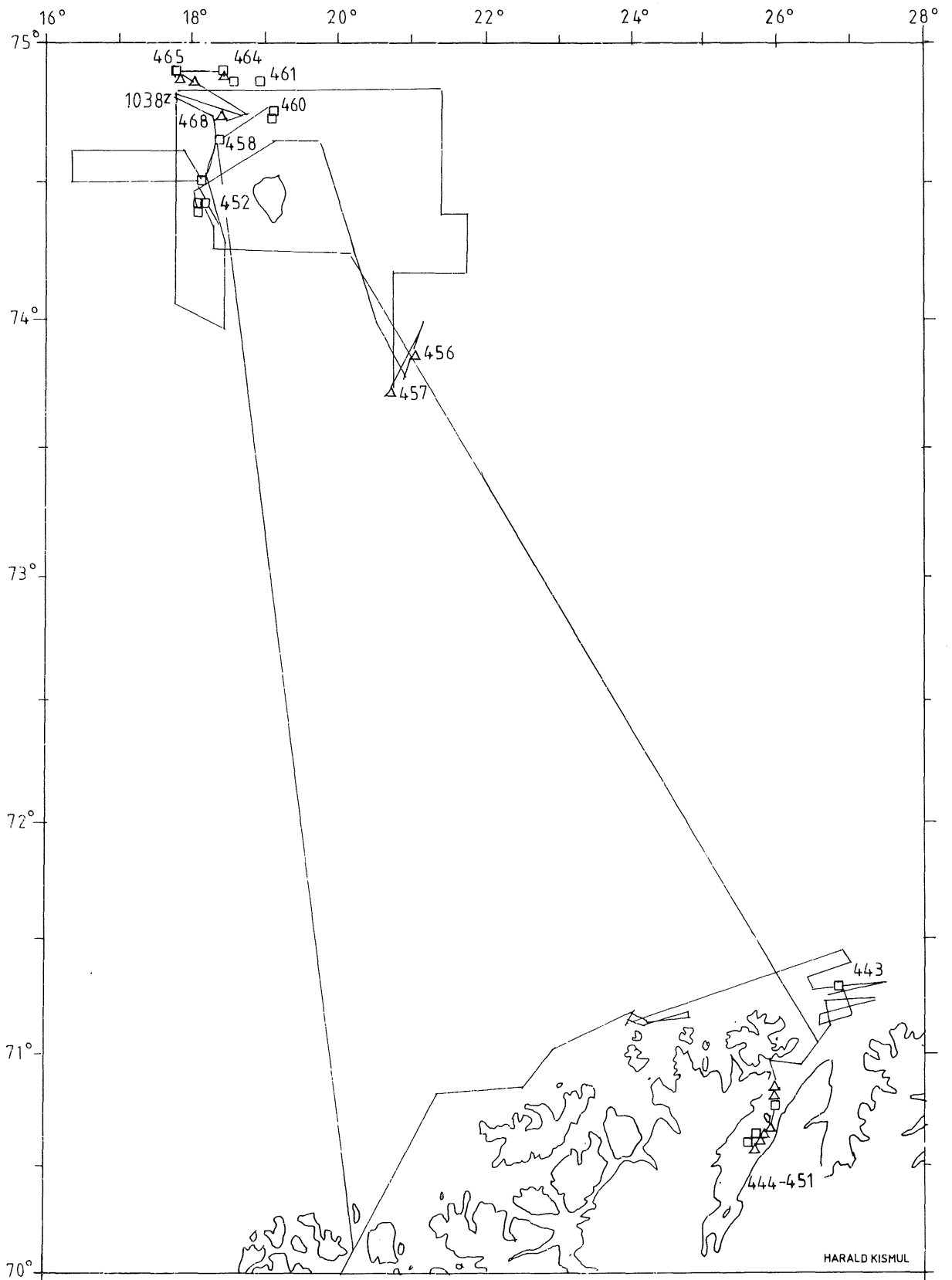


28 JUN.-20 JUL. 1989 △ □ TRAWL ST. NO. 272-349

"ELDJARN"

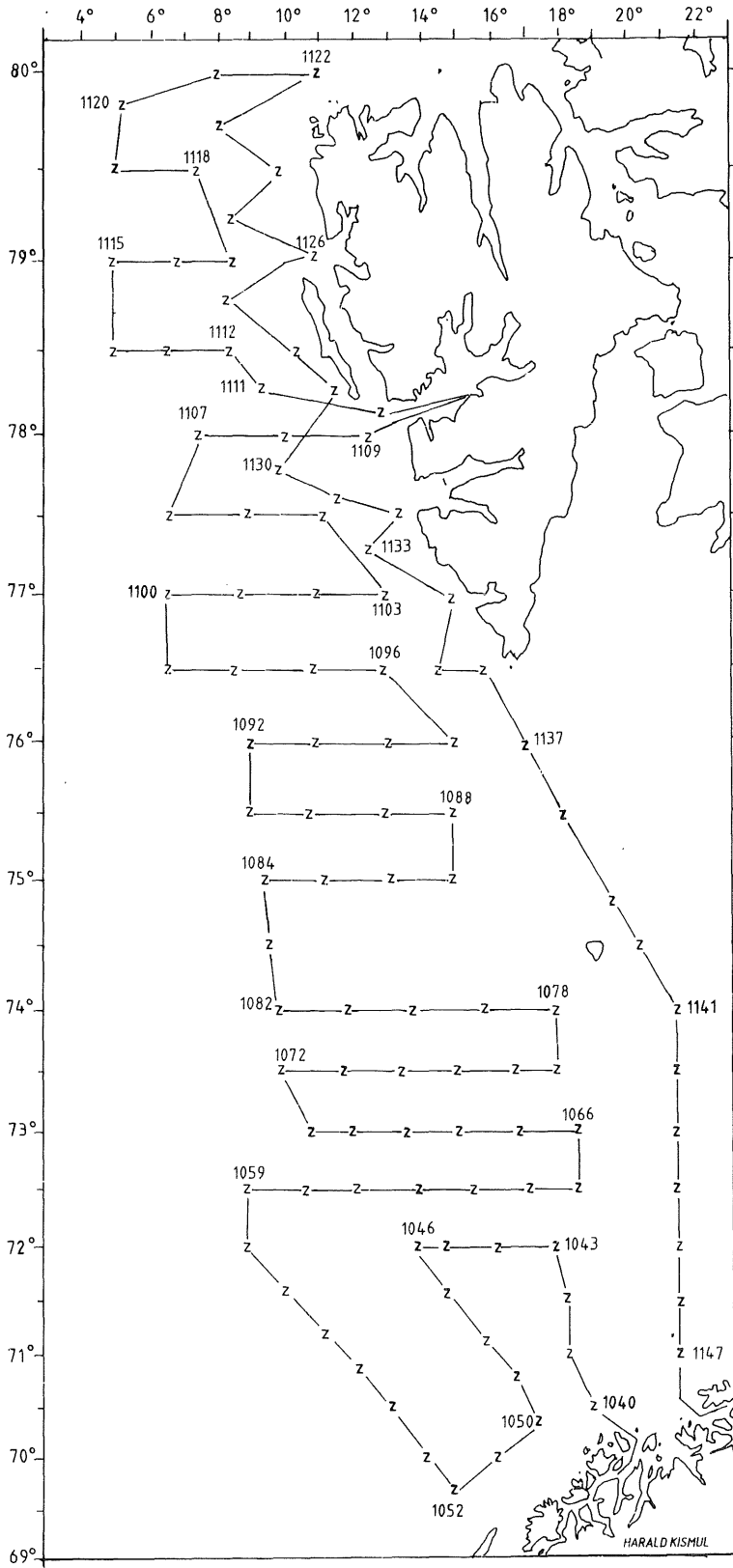






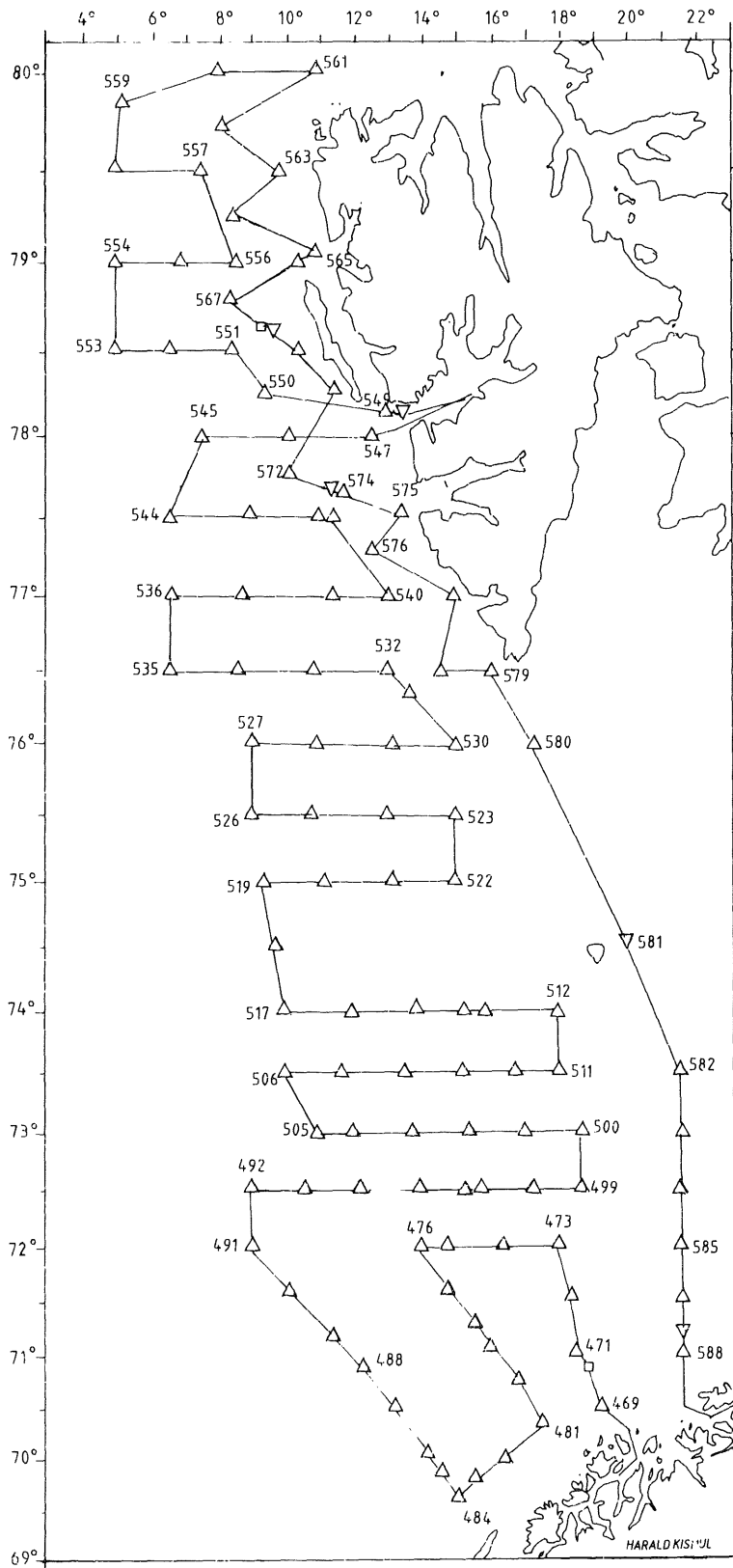
10-21 AUG. 1989 z CTD ST. NO. 1038 □ △ TRAWL ST. NO. 443-468

"ELDJARN"

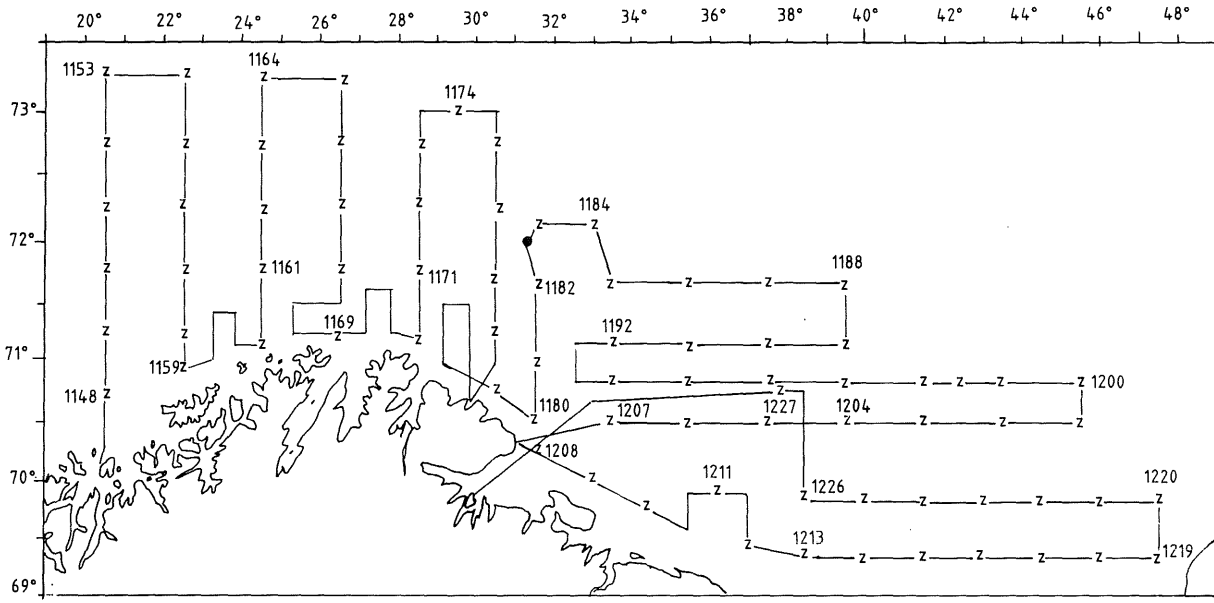


21 AUG. - 11 SEP. 1989 z CTD ST. NO. 1040 - 1147. "ELDJARN"



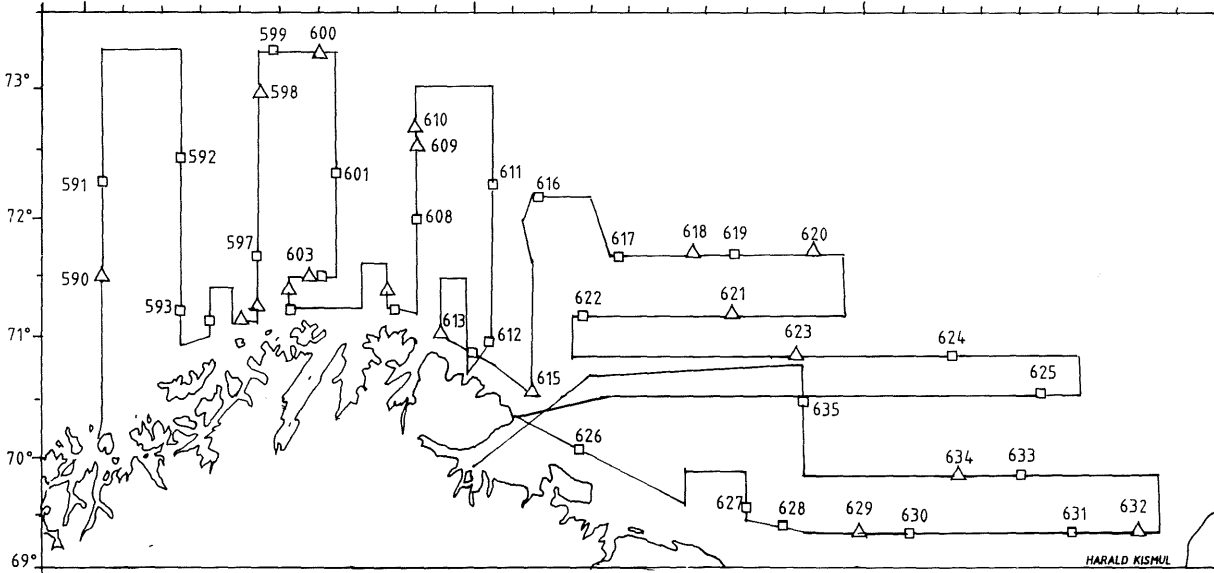


21 AUG - 11 SEP 1989  $\Delta \nabla \square$  TRAWL ST. NO. 484-588 "ELDJARN"



12 - 28 SEP. 1989 z CTD ST. NO. 1148-1227 ● ARGOS DRIFTERS RECOVERED

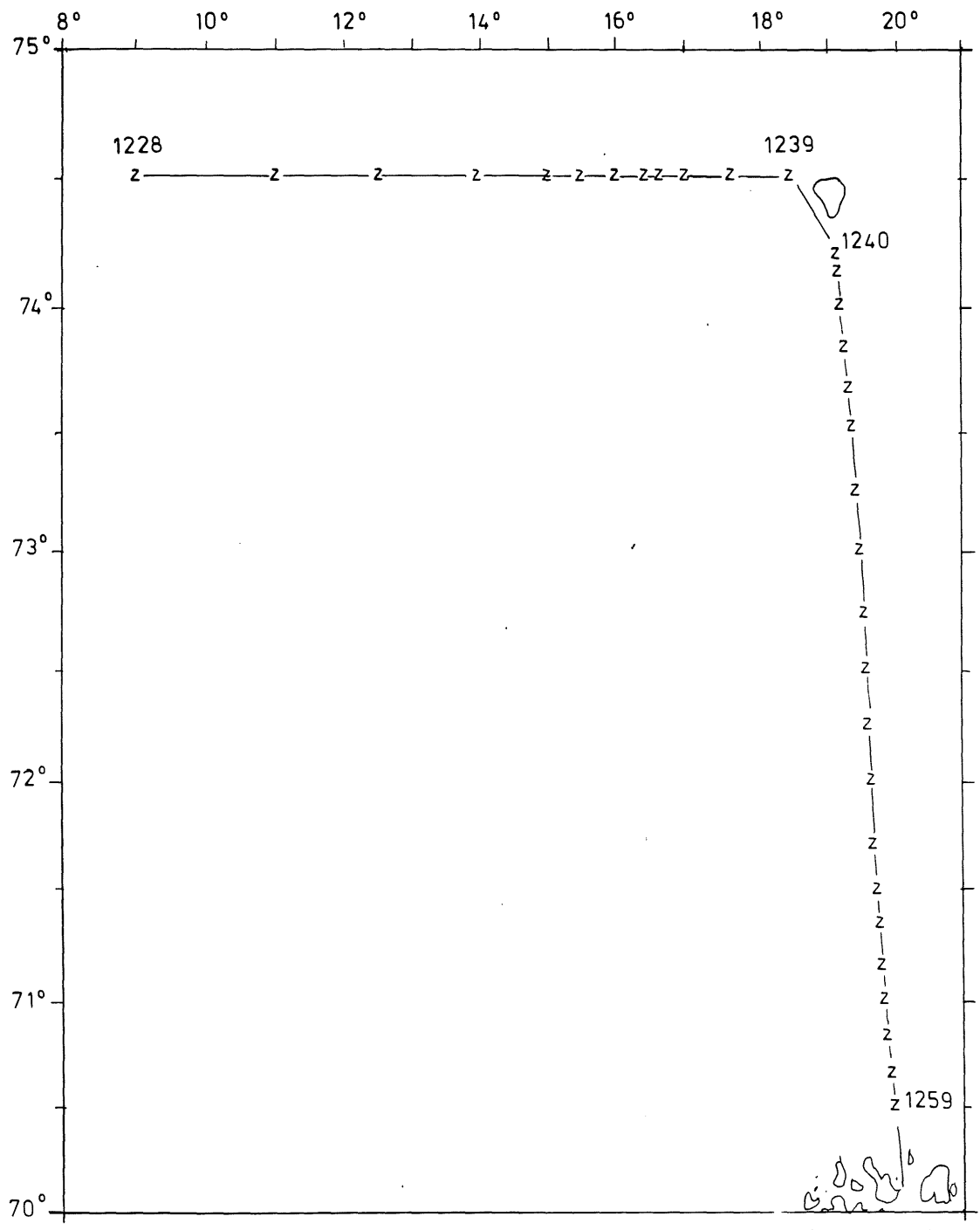
"ELDJARN"



12 - 28 SEP. 1989 ▲ □ TRAWL ST. NO. 590 - 635

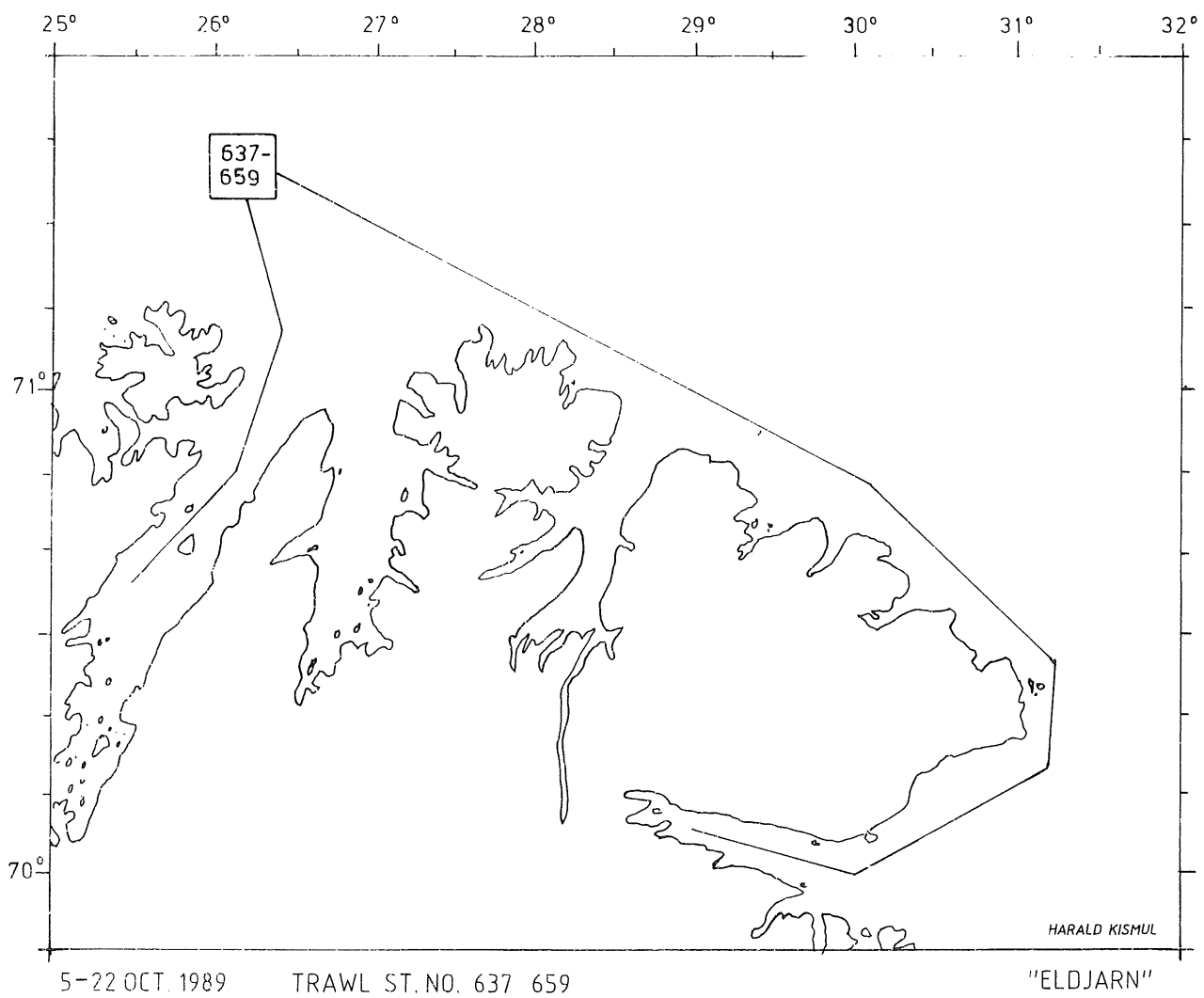
HARALD KISHUL

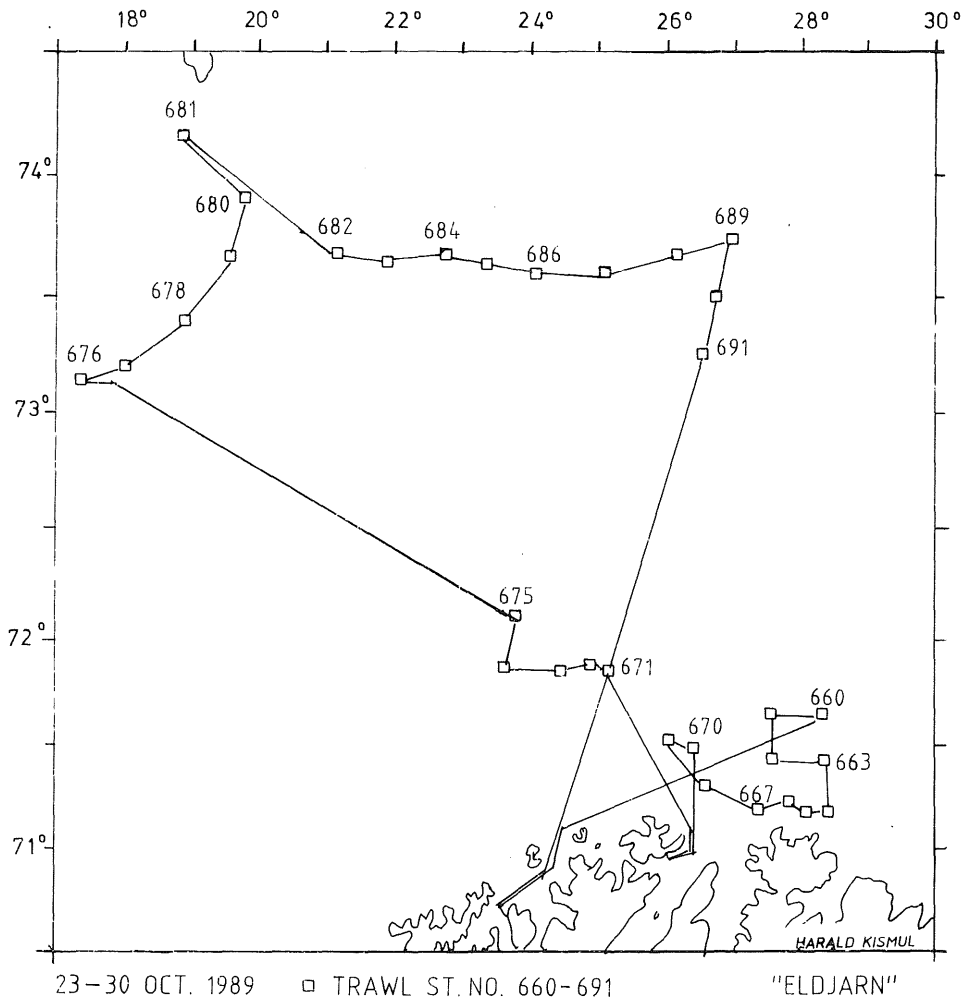
"ELDJARN"

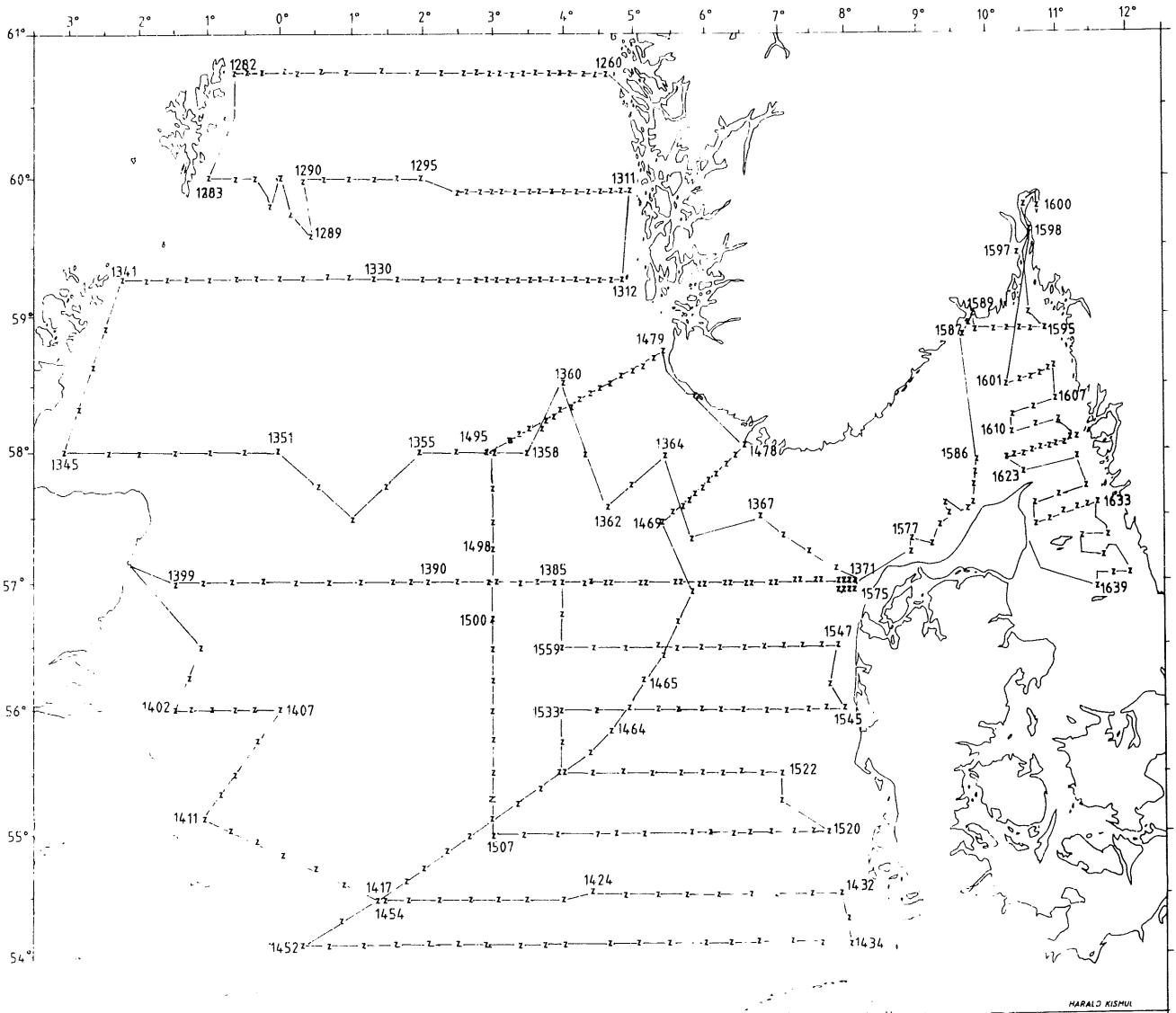


30 SEP. - 3 OCT. 1989 2 CTD ST.NO. 1228-1259

"ELD JARN"



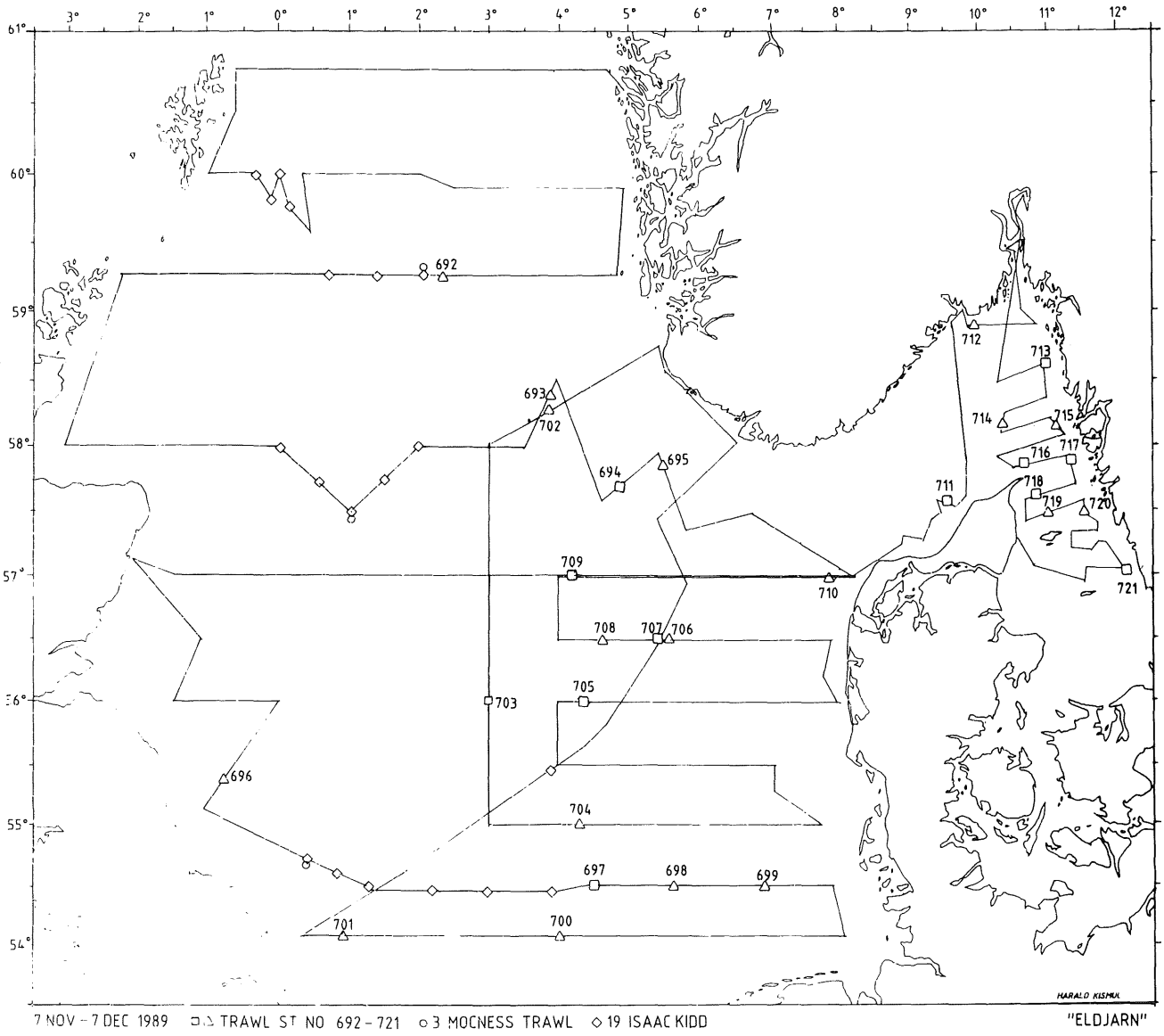


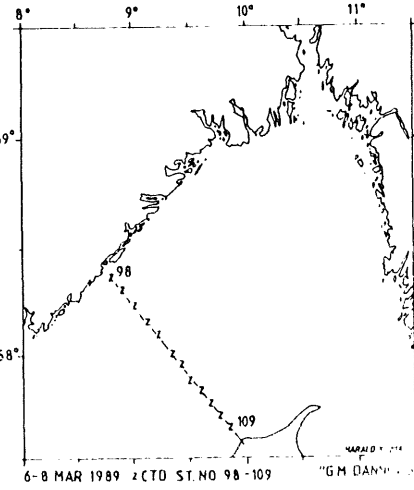
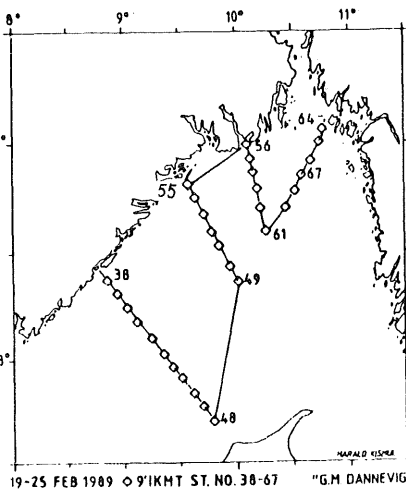
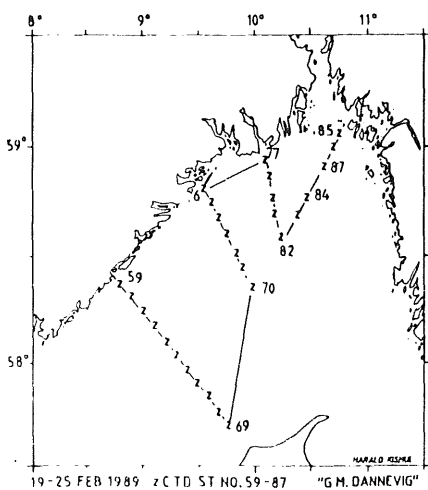
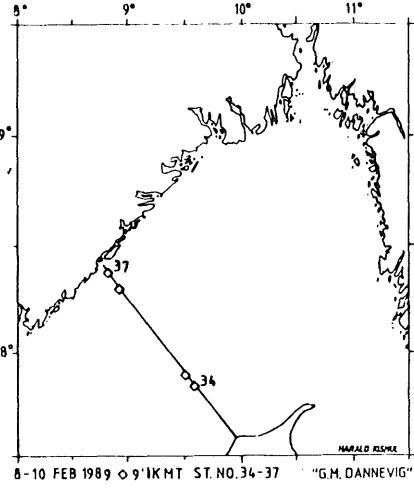
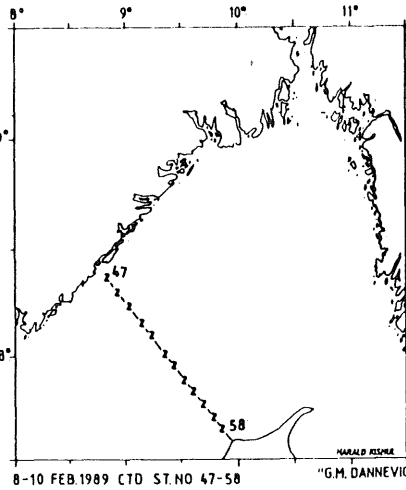
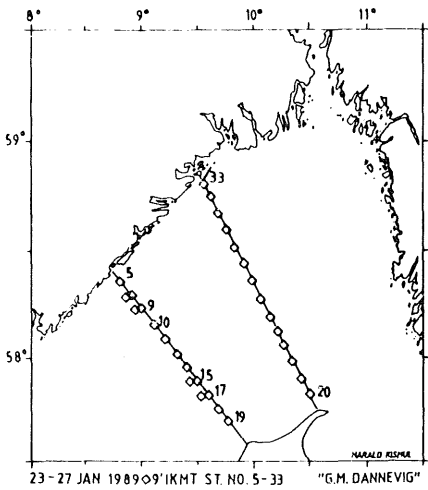
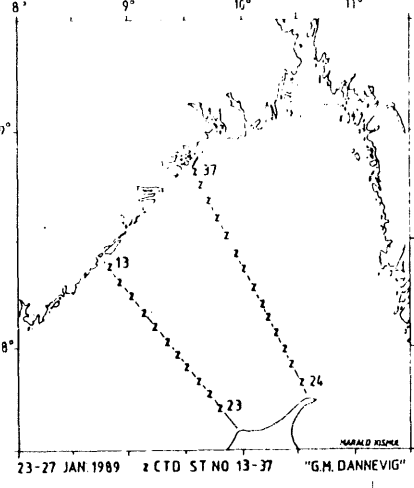
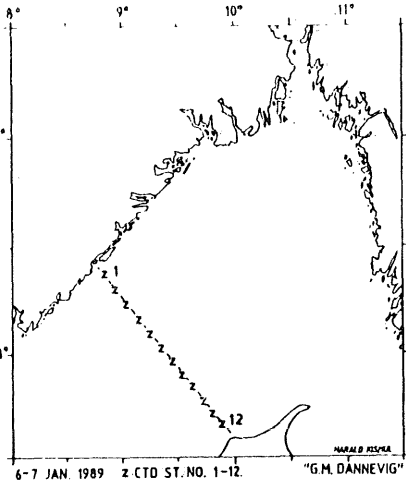
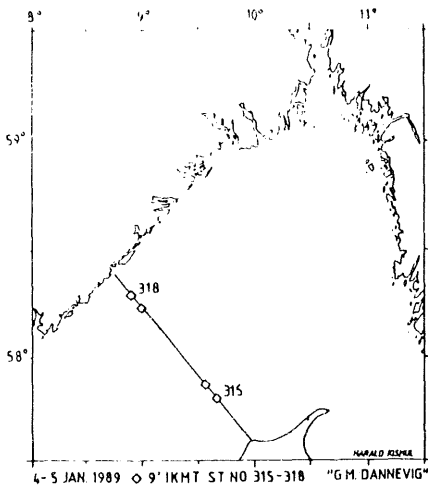


7 NOV - 7 DEC 1989 \* CTD ST NO. 1260-1639

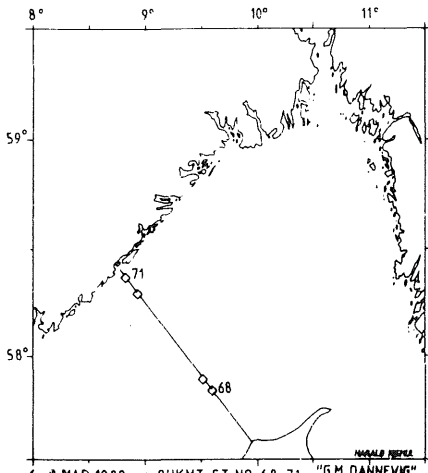
HARALD KISMUL

"ELDJARN"

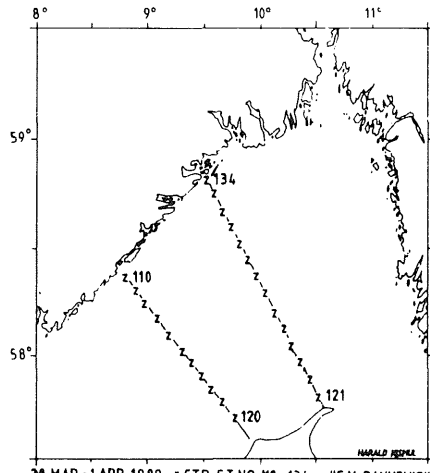




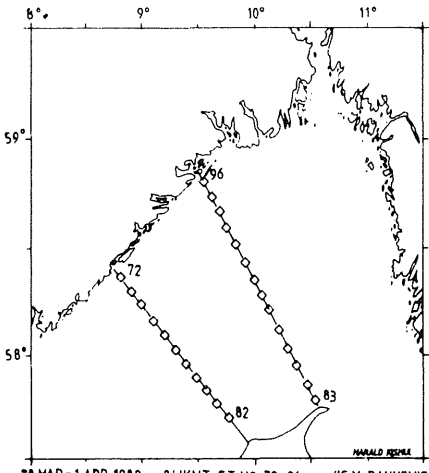




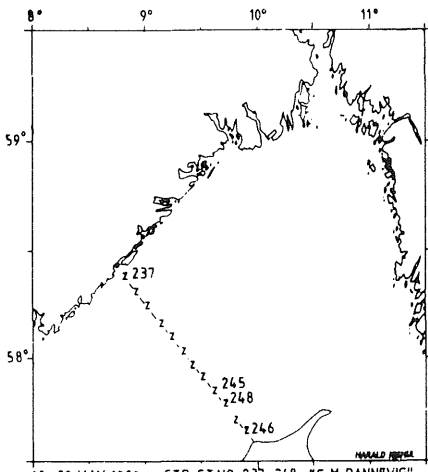
6-8 MAR 1989 ◊ 9'IKMT ST NO 68-71 "G.M. DANNEVIG"



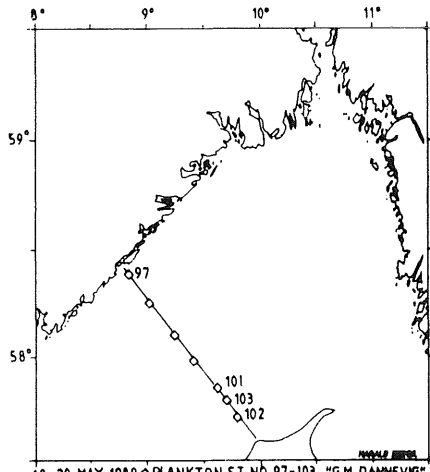
28 MAR-1 APR 1989 z CTD ST NO 110-134 "G.M. DANNEVIG"



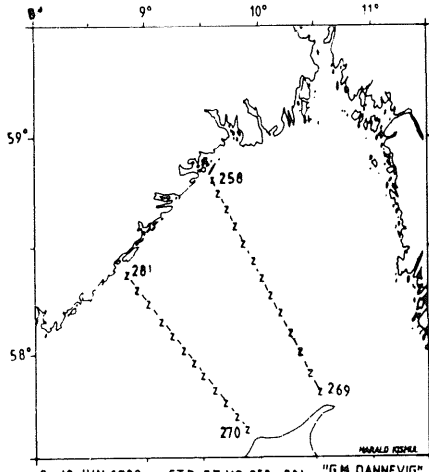
28 MAR-1 APR 1989 9'IKMT ST NO 72-96 "G.M. DANNEVIG"



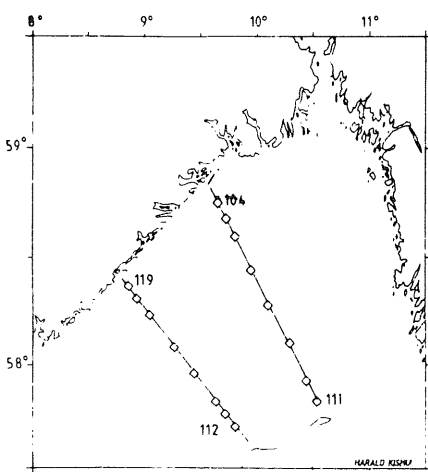
18-20 MAY 1989 z CTD ST NO 237-248 "G.M. DANNEVIG"



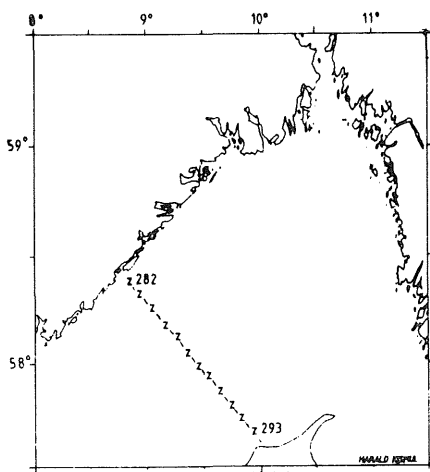
18-20 MAY 1989 ◊ PLANKTON ST NO 97-103 "G.M. DANNEVIG"



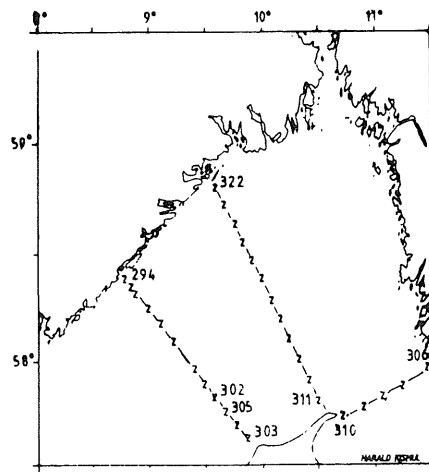
9-12 JUN 1989 z CTD ST NO 258-281 "G.M. DANNEVIG"



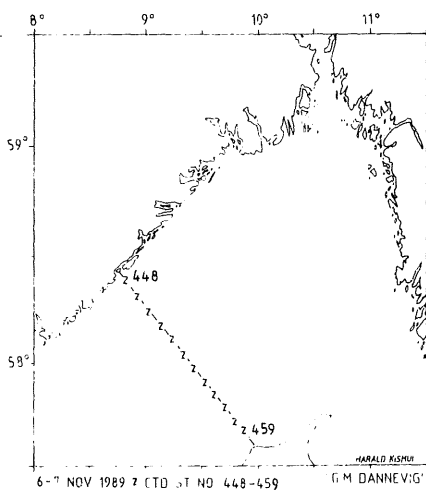
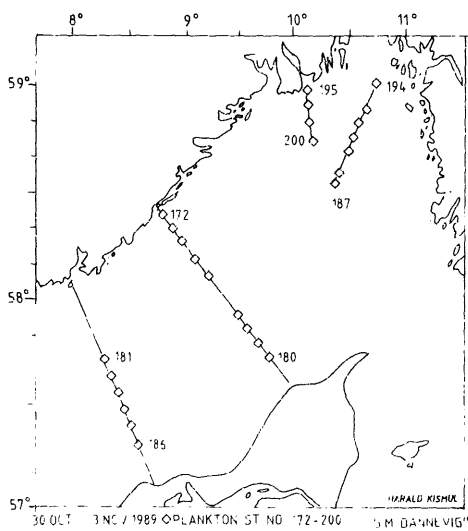
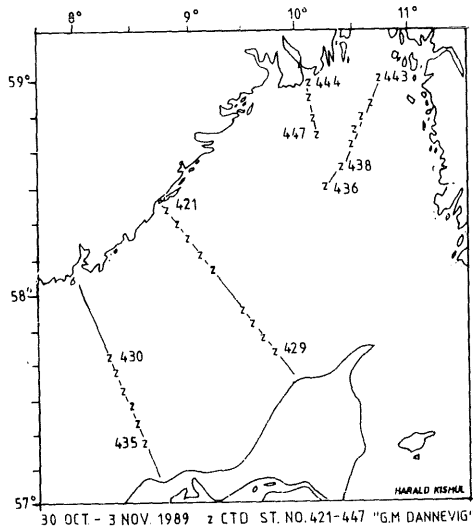
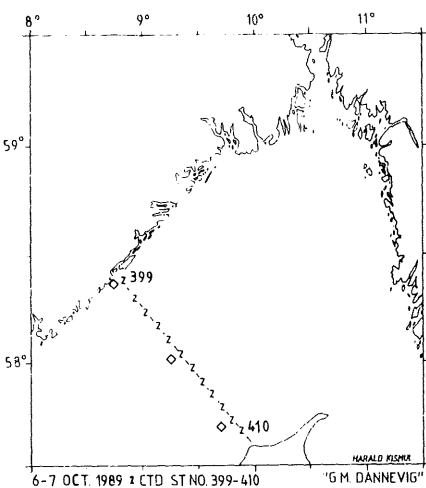
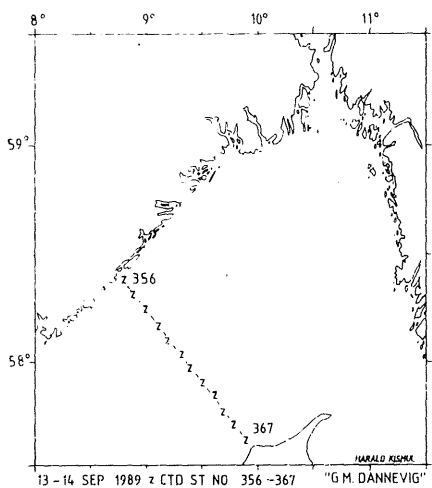
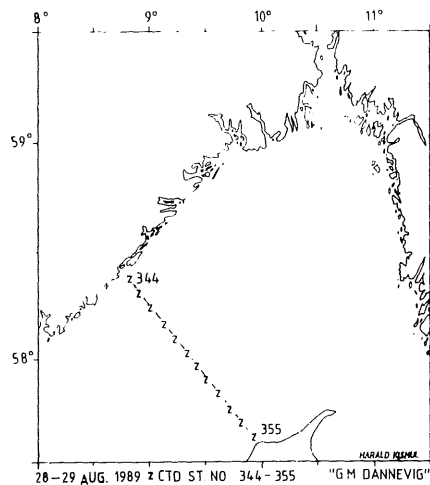
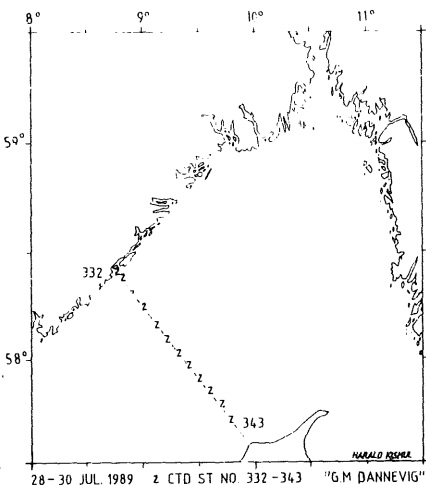
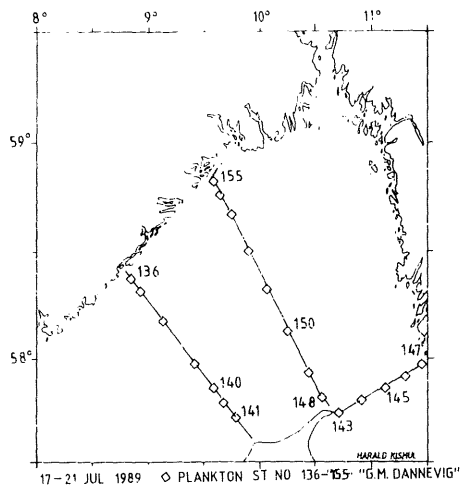
9-12 JUN 1989 ◊ PLANKTON ST NO 104-119 "G.M. DANNEVIG"

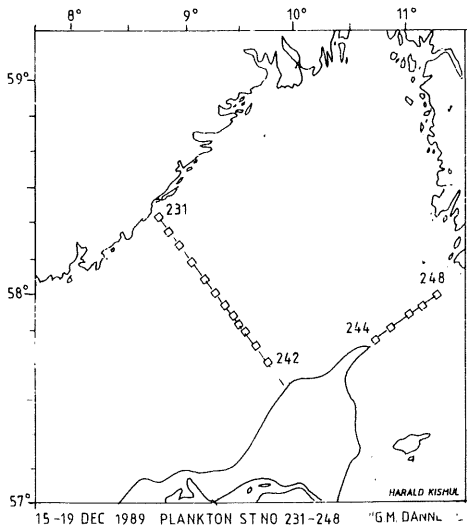
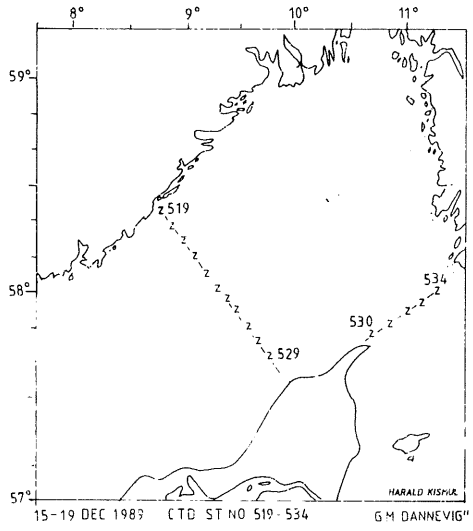
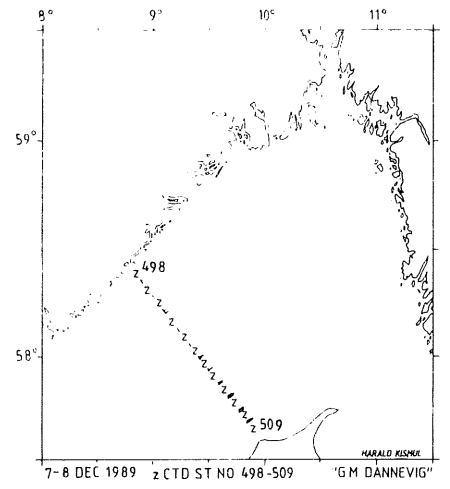
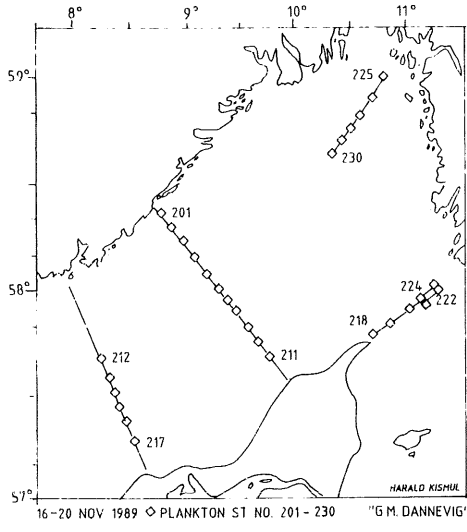
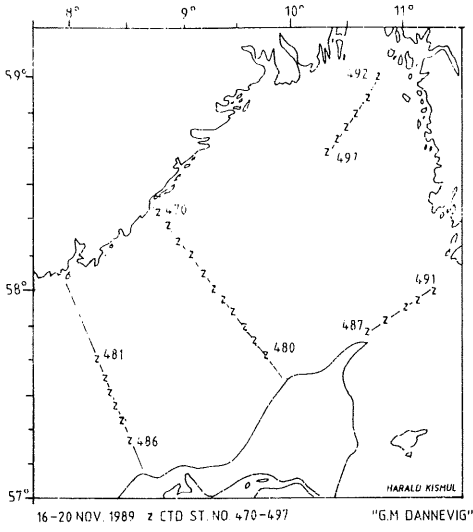


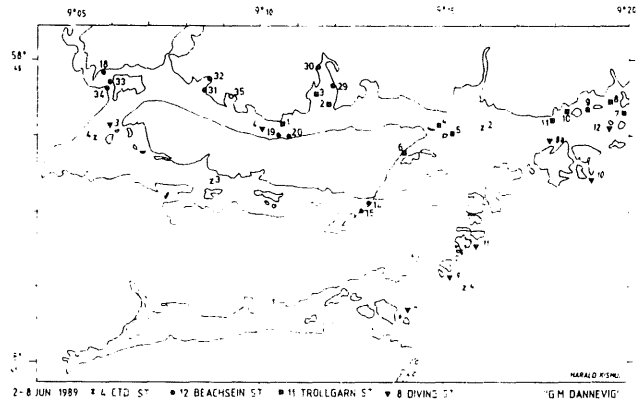
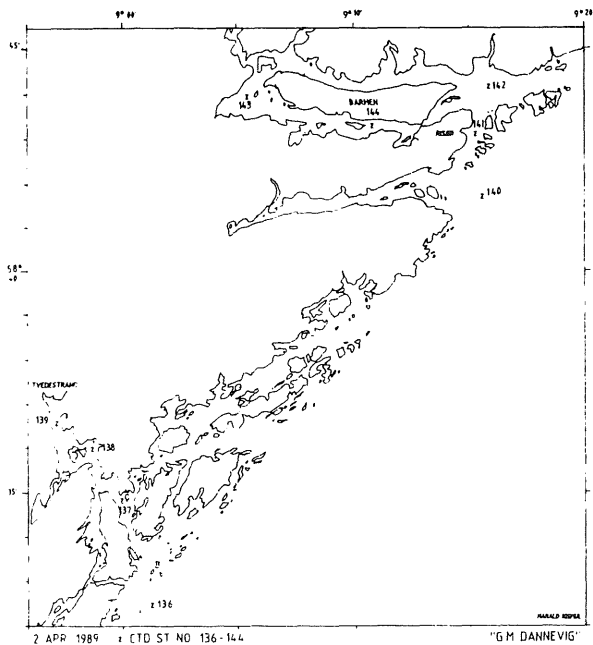
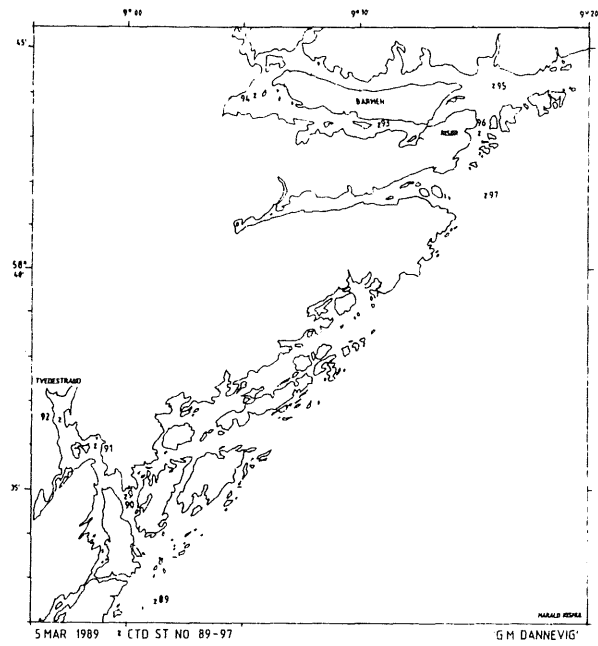
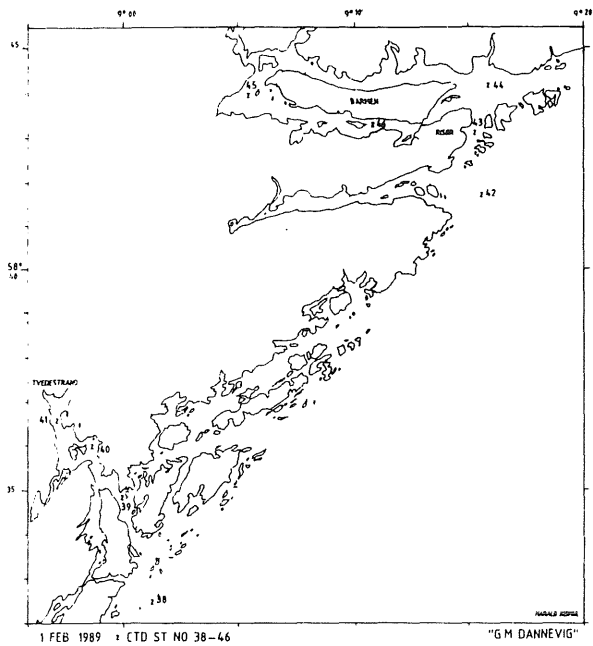
14-15 JUN 1989 z CTD ST NO 282-293 "G.M. DANNEVIG"

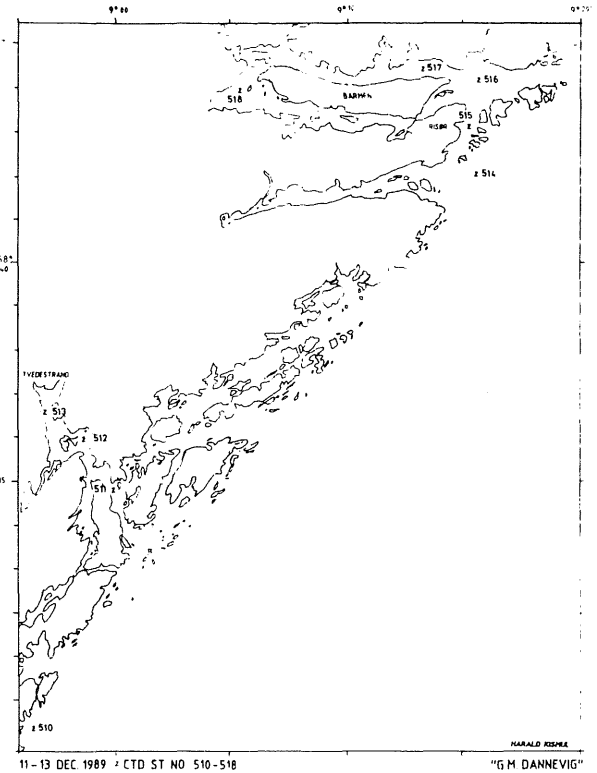
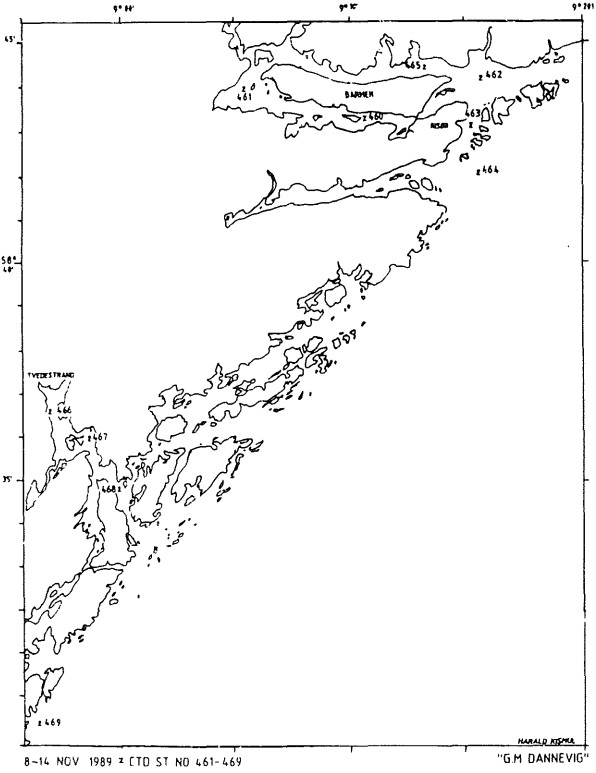
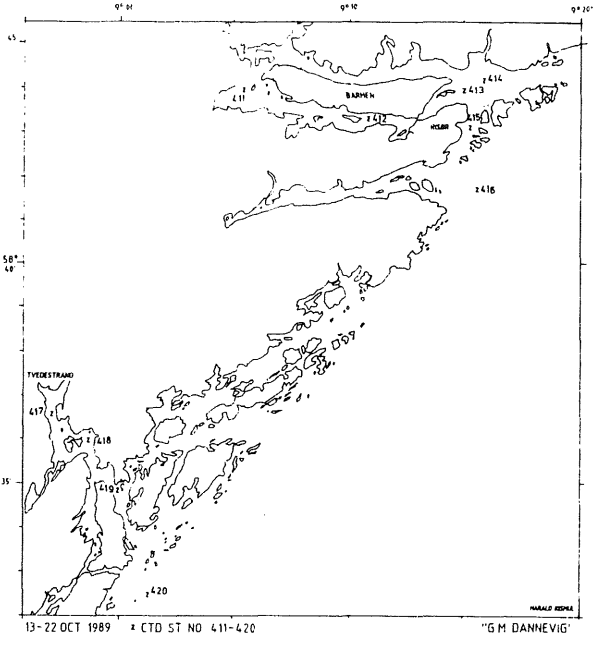
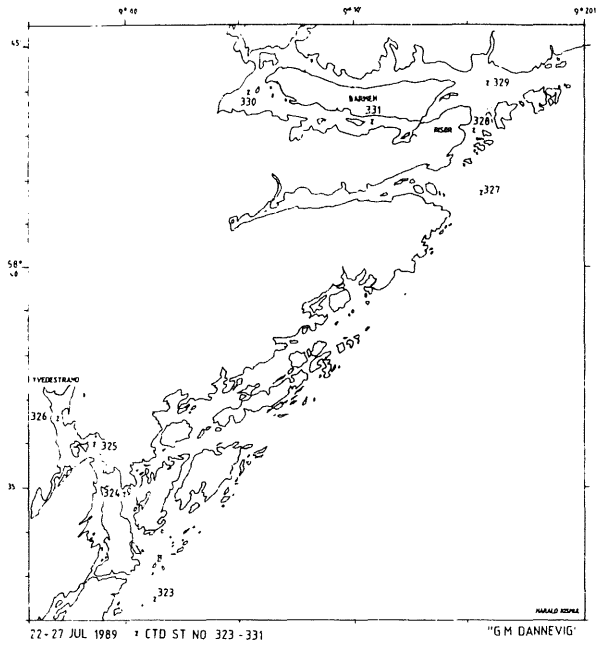


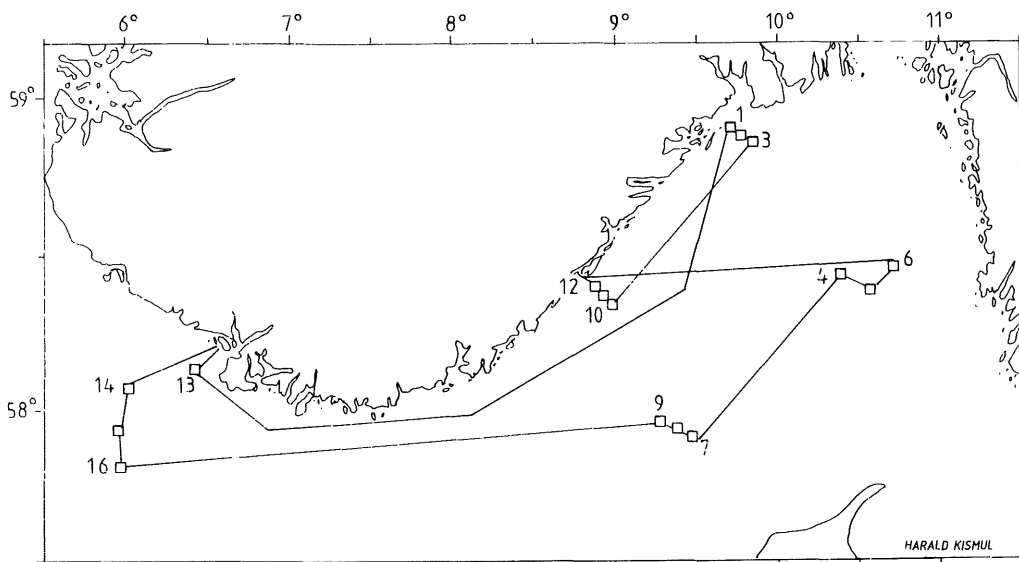
17-21 JUL 1989 z CTD ST NO 294-322 "G.M. DANNEVIG"





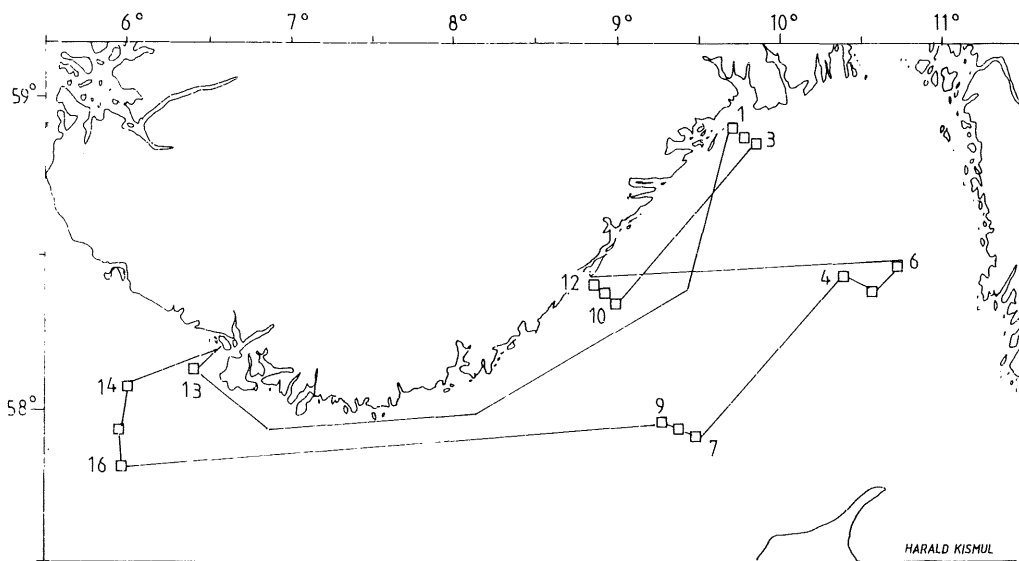






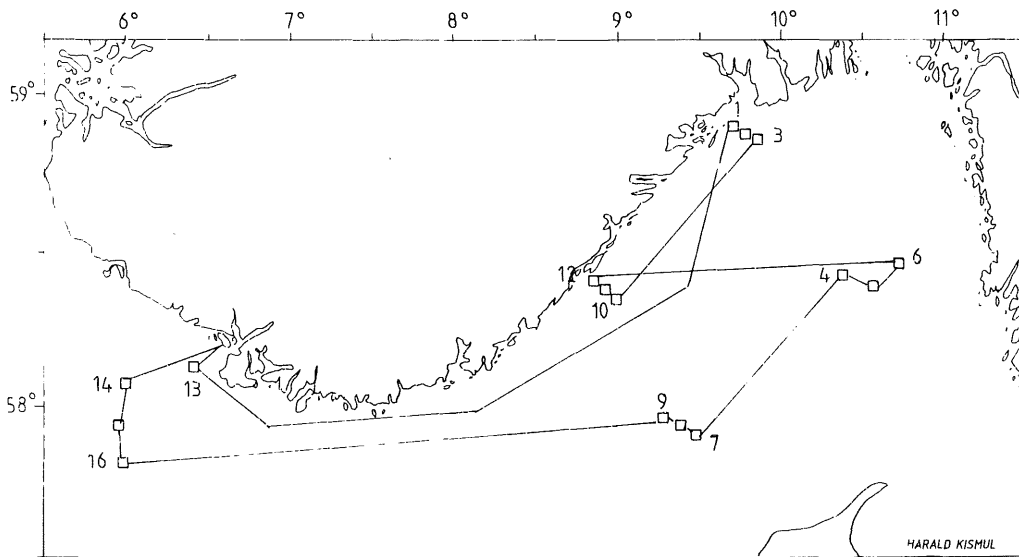
8-15 MAR. 1989 □ SHRIMP TRAWL ST. NO. 1-16

"G.M. DANNEVIG"



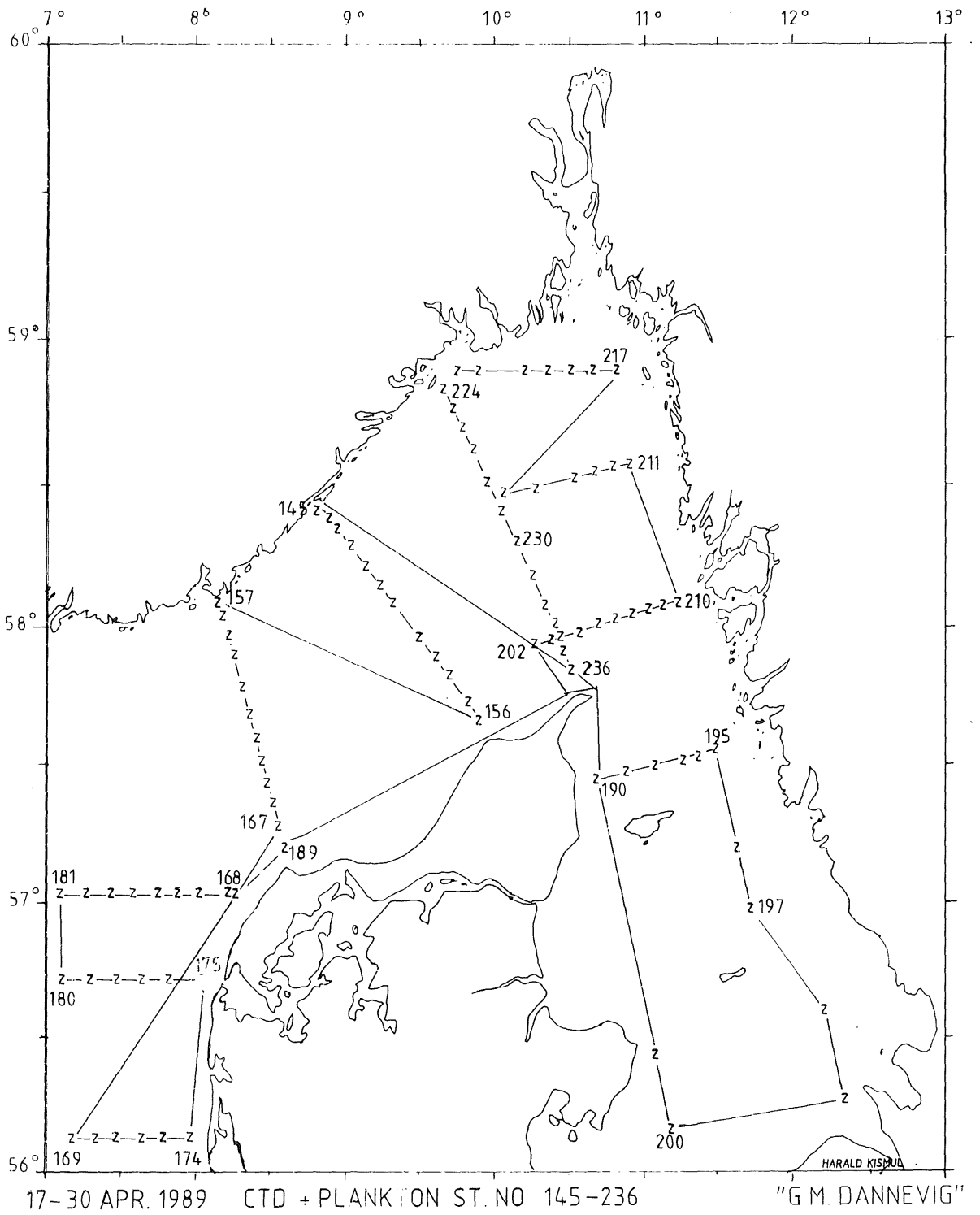
18-25 JUN. 1989 SHRIMP TRAWL ST. NO. 1-16

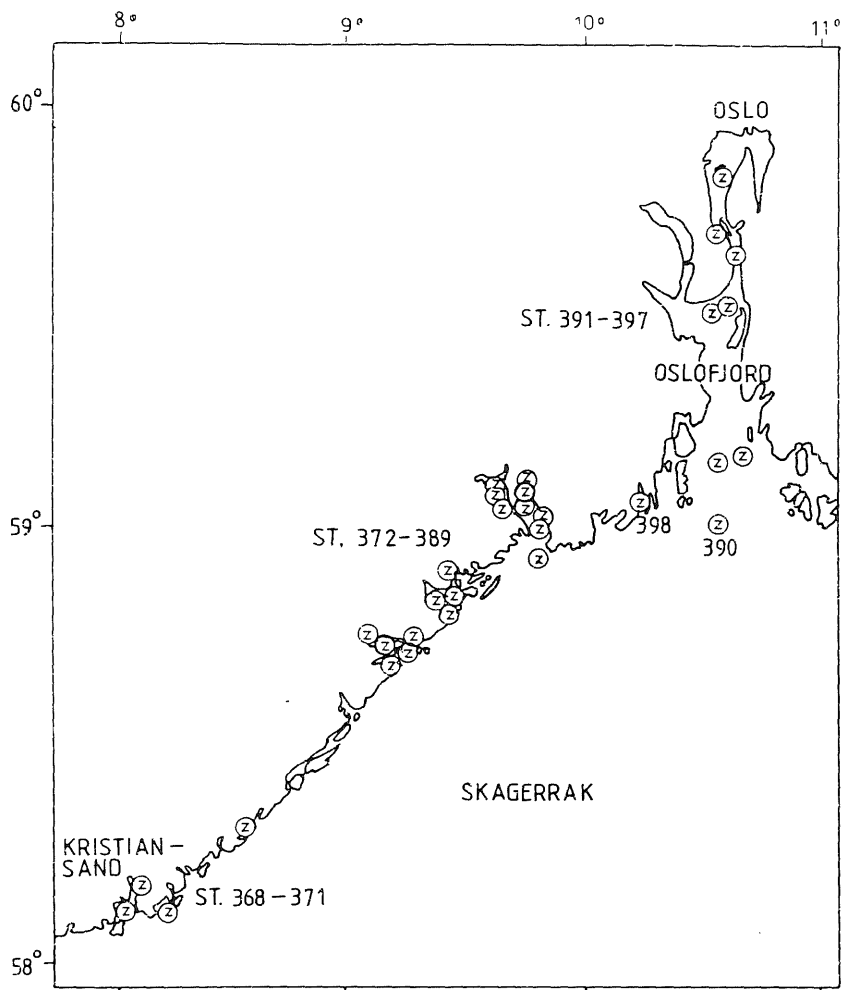
"G.M. DANNEVIG"



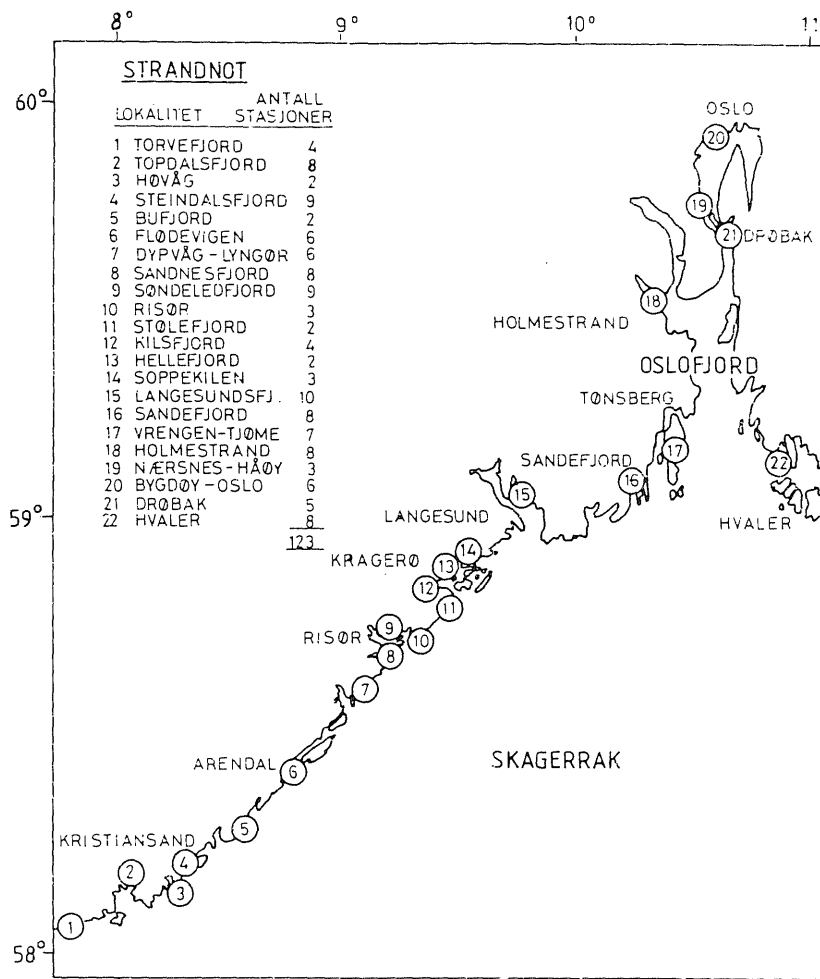
30 AUG - 6 SEP. 1989 SHRIP TRAWL ST. NO. 1-16

"G.M. DANNEVIG"





18 SEP.- 5 OCT. 1989 z CTD ST. NO. 368-398 O BEACHSEIN 1-22



"G.M. DANNEVIG"



