

I.O.S.

IOS GEOPHYSICAL DATA HELD ON
MAGNETIC TAPE – A SUMMARY

BY

S. DRAKE AND P. R. MILES

REPORT NO. 194

1985

NATURAL ENVIRONMENT
INSTITUTE OF OCEANOGRAPHIC SCIENCES
RESEARCH COUNCIL

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INSTITUTE OF OCEANOGRAPHIC SCIENCES

WORMLEY

IOS geophysical data held on
magnetic tape - summary

Bathymetric, magnetic and gravity data
collected during marine geology and
geophysics cruises 1973 - 1984

by

S. Drake and P.R. Miles

I.O.S. Report No. 194

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ABSTRACT

This report summarises underway bathymetric, magnetic and gravity data collected during marine geology/geophysics cruises between 1973 and 1984 by the Institute of Oceanographic Sciences (IOS), United Kingdom. Track charts accompanied by a 5° square data identification system provide basic cruise information useful in locating required data coverage. Full details of the availability of cruise data together with a list of the complementary Cruise Reports are included in the appendices.

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| Discovery 84 Leg 1 | Discovery 111 Leg 1 |
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INTRODUCTION

This report summarises the underway geophysical data collected during marine geology and geophysics cruises of the Institute of Oceanographic Sciences. These data are held in a magnetic tape library currently accessed through the Natural Environment Research Council Honeywell 66 computer.

Access to these data through a small database identified the need for a concise summary document which would be useful outside the mainstream of computer users as a bookshelf reference of available information. This appeared as an IOS Internal Document which, through demand, has led to its publication in this revised form as an IOS Report.

The data referenced in this report is restricted to geological and geophysical cruises of IOS between 1973 and 1984 and does not include data acquired during cruises of other scientific disciplines. Appendices give full details of cruise data availability, international distribution, published cruise reports and relevant contact addresses.

INFORMATION DESCRIPTION

The cruises are described in chronological order for each research vessel by:

1. A title sheet tabulating cruise details.
2. A track chart annotated with day numbers.

The title sheet details general cruise information of use for indexing into outside data inventories. Listing of the number of two-minute data records for the Leg, plus general documentation of Principal (Chief) Scientist, start and finish ports and latitude-longitude limits of the cruise are given. In addition, the number of records containing bathymetric, magnetic and gravity data for each 5° square are tabulated using the geographic area code explained in Appendix A.

Track charts facing each title sheet are annotated only with day number (see appendix F). Some cruise legs may appear in two parts through in-cruise logging breaks. The track chart and data summary together enable the profile locations to be orientated.

The appendices A-F contain full references to the published cruise reports of each cruise entry together with the now discontinued unpublished Data Reports which were compiled for several of the major IOS cruises up to 1981. IOS geophysical cruise data is now distributed to the international scientific community through the World Data Centre, Boulder, USA, via the UK National

Oceanographic Data Bank, Marine Information and Advisory Service (MIAS) of IOS.
Full information is given in Appendices D and E.

Discovery Cruise 54 Leg 1

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 15279
Bathymetry - 4347
Magnetics - 13101
Gravity - 0

P.S.O. - Laughton

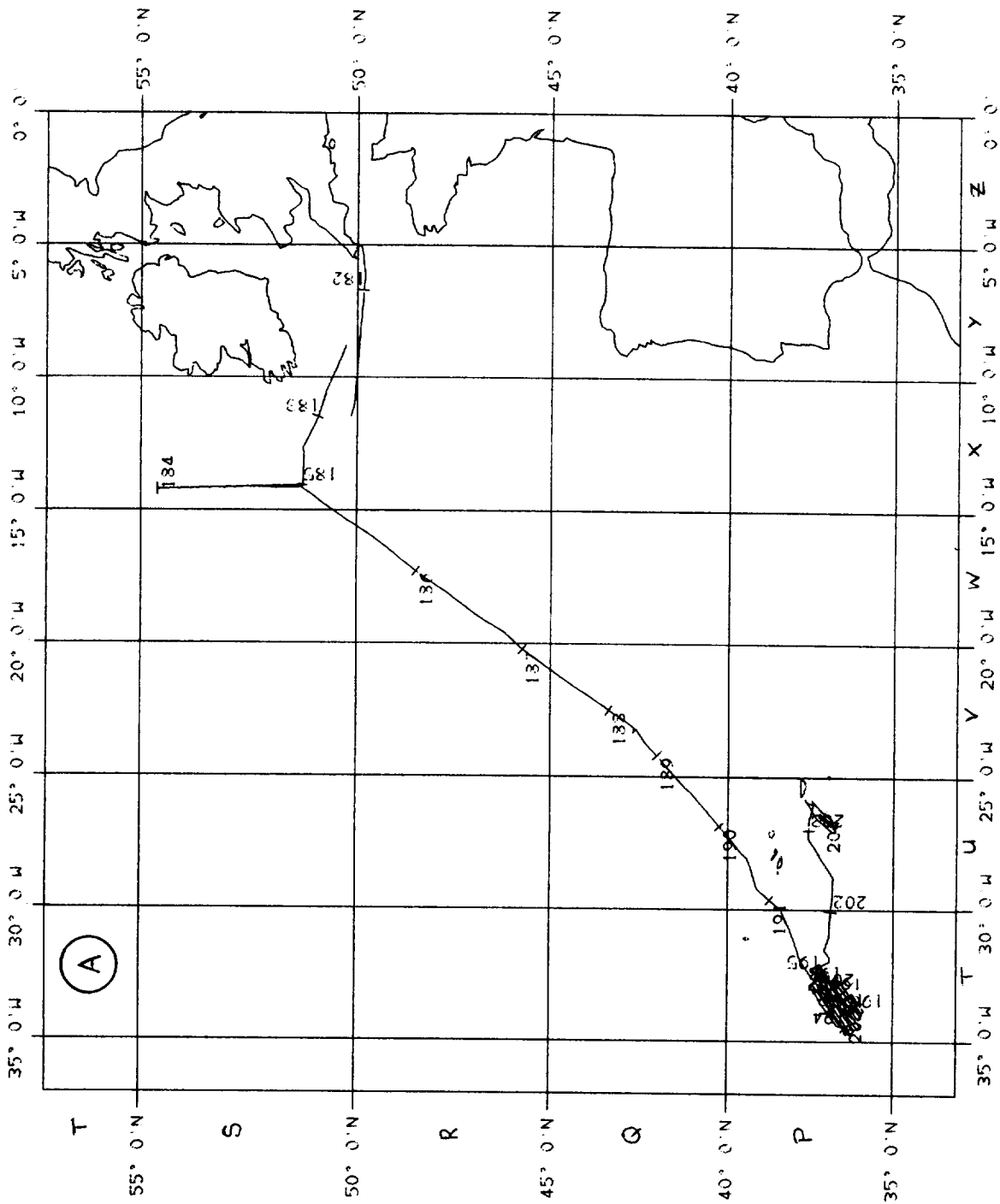
Start Port - Southampton
End Port - Azores

Data Starts - 1750z 30-Jun-73
Data Ends - 0832z 23-Jul-73

Latitude minimum - 35.3N
Latitude maximum - 54.7N
Longitude minimum - 34.8W
Longitude maximum - 4.9W

Distribution of data for Discovery Cruise 54 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|----------------|------------|
| ATP | 2558 | 7286 | 0 |
| AJP | 771 | 2232 | 0 |
| AUQ | 204 | 607 | 0 |
| AVQ | 449 | 1152 | 0 |
| AVR | 89 | 234 | 0 |
| AWR | 321 | 961 | 0 |
| AWS | 39 | 115 | 0 |
| AXS | 416 | 464 | 0 |
| ----- Total | ----- 4347 | ----- 13101 | ----- 0 |



DISCOVERY 54 LFG 1

Discovery Cruise 54 Leg 2

Magtapes:-

Original copy
MGS copy
Archive copy

Total records - 13703
Bathymetry - 3709
Magnetics - 9342
Gravity - 0

P.S.O. - Laughton

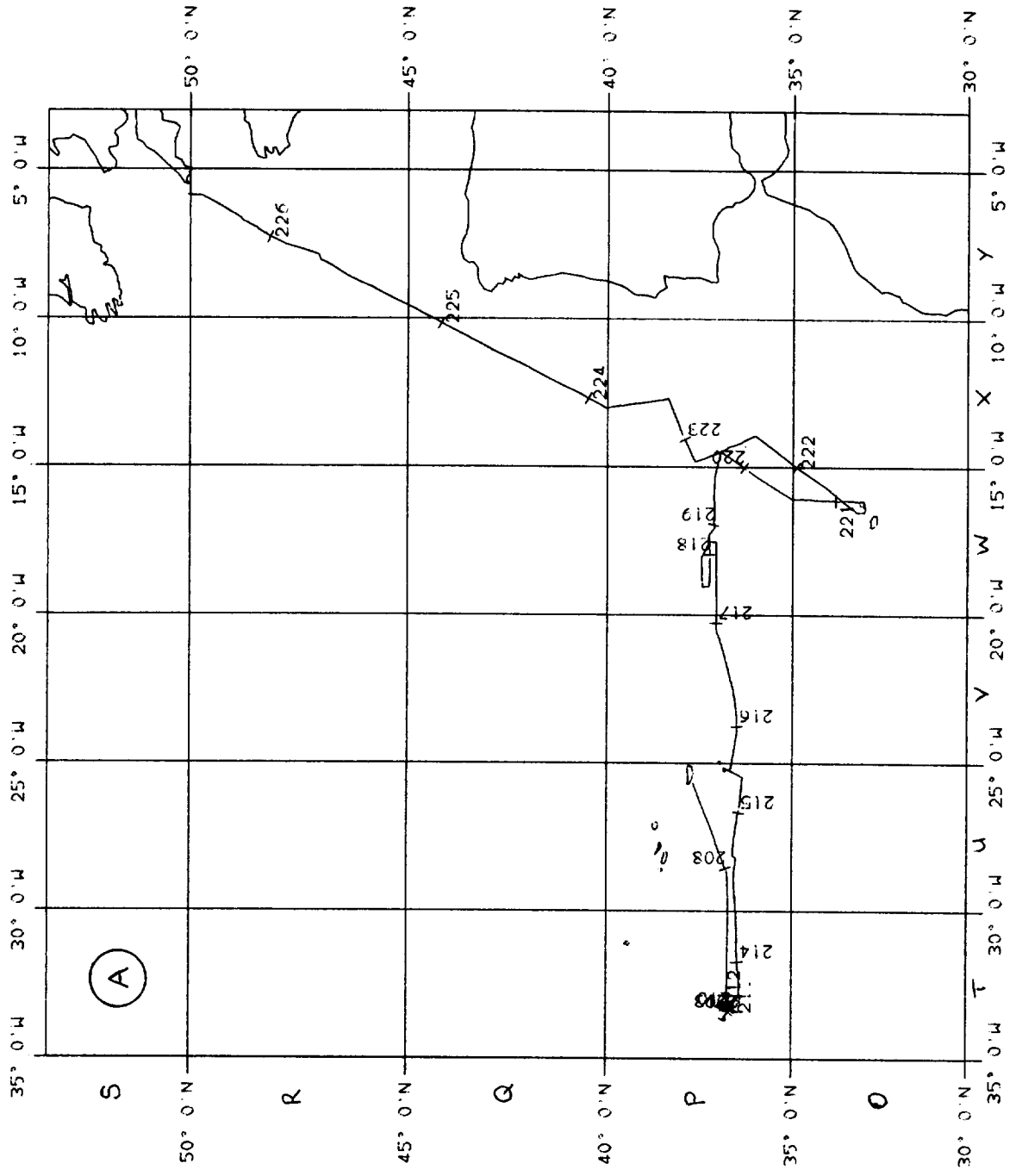
Start Port - Azores
End Port - Barry

Data Starts - 1112z 26-Jul-73
Data Ends - 1150z 14-Aug-73

Latitude minimum - 32.9N
Latitude maximum - 50.1N
Longitude minimum - 33.7W
Longitude maximum - 5.8W

Distribution of data for Discovery Cruise 54 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|------|------|---|
| ATP | 932 | 902 | 0 |
| AJP | 454 | 1357 | 0 |
| AVP | 333 | 1034 | 0 |
| AWO | 320 | 915 | 0 |
| AWP | 730 | 2213 | 0 |
| AXO | 0 | 19 | 0 |
| AXP | 530 | 1598 | 0 |
| AXQ | 236 | 865 | 0 |
| AYJ | 29 | 112 | 0 |
| AYR | 133 | 327 | 0 |
| Total | 3709 | 9342 | 0 |



DISCOVERY 54 LEG 2

Discovery Cruise 60

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 16216
Bathymetry - 4973
Magnetics - 3383
Gravity - 0

P.S.O. - Roberts

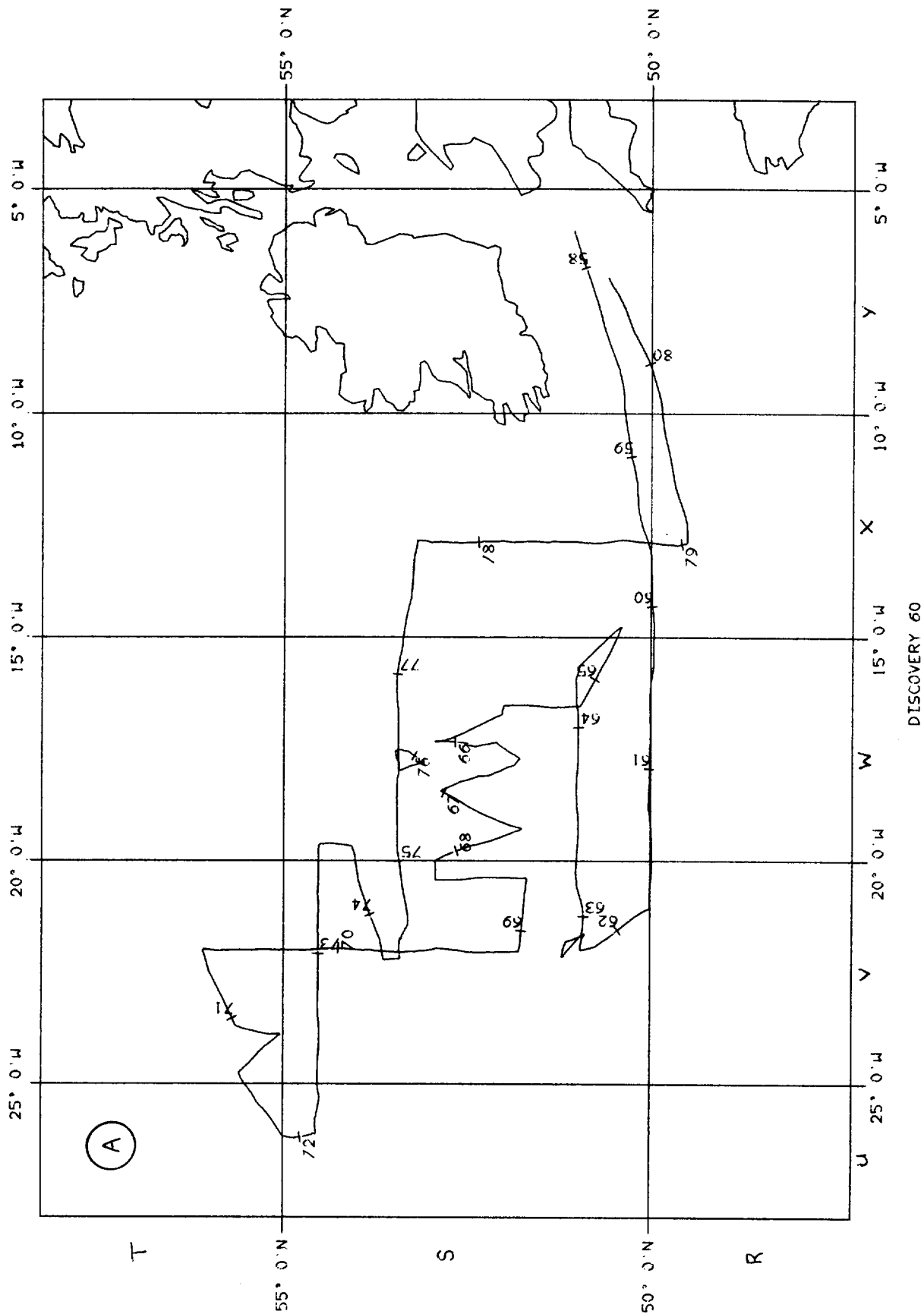
Start Port - Barry
End Port - Barry

Data Starts - 2102z 20-Feb-74
Data ends - 0954z 21-Mar-74

Latitude minimum - 49.4N
Latitude maximum - 50.1N
Longitude minimum - 28.3W
Longitude maximum - 5.9W

Distribution of data for Discovery Cruise 60:-

| Geographical Area Code | B | M | G |
|---------------------------|------|------|---|
| AUS | 125 | 0 | 0 |
| AUT | 69 | 0 | 0 |
| AVR | 31 | 0 | 0 |
| AVS | 1354 | 219 | 0 |
| AVT | 322 | 0 | 0 |
| AWR | 116 | 0 | 0 |
| AWS | 1051 | 861 | 0 |
| AXR | 341 | 628 | 0 |
| AXS | 632 | 1132 | 0 |
| AYR | 50 | 171 | 0 |
| AYS | 270 | 322 | 0 |
| Total | 4973 | 3383 | 0 |



Discovery Cruise 68 Leg 2

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 9926
Bathymetry - 5566
Magnetics - 5704
Gravity - 0

P.S.O. - Laughton

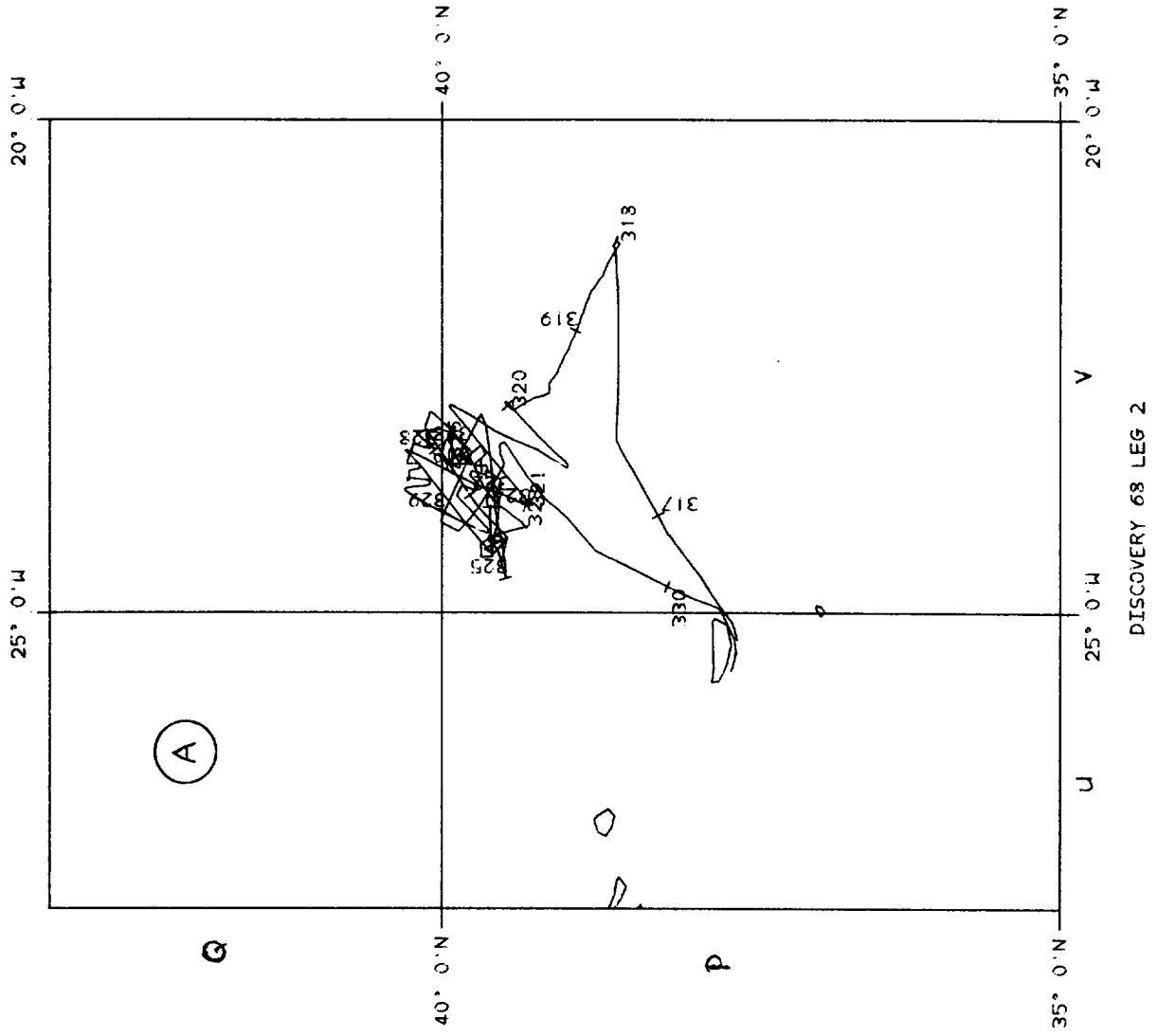
Start Port - Azores
End Port - Azores

Data Starts - 1522z 12-Nov-74
Data Ends - 0922z 26-Nov-74

Latitude minimum - 37.6N
Latitude maximum - 40.3N
Longitude minimum - 25.6W
Longitude maximum - 21.1W

Distribution of data for Discovery Cruise 68 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|-------------|-------------|----------|
| AUP | 0 | 3 | 0 |
| AVP | 4800 | 4901 | 0 |
| AVQ | 760 | 795 | 0 |
| <u>Total</u> | <u>5566</u> | <u>5704</u> | <u>0</u> |



Discovery Cruise 73 Leg 1

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 19863
Bathymetry - 9079
Magnetics - 10131
Gravity - 0

P.S.O. - Laughton

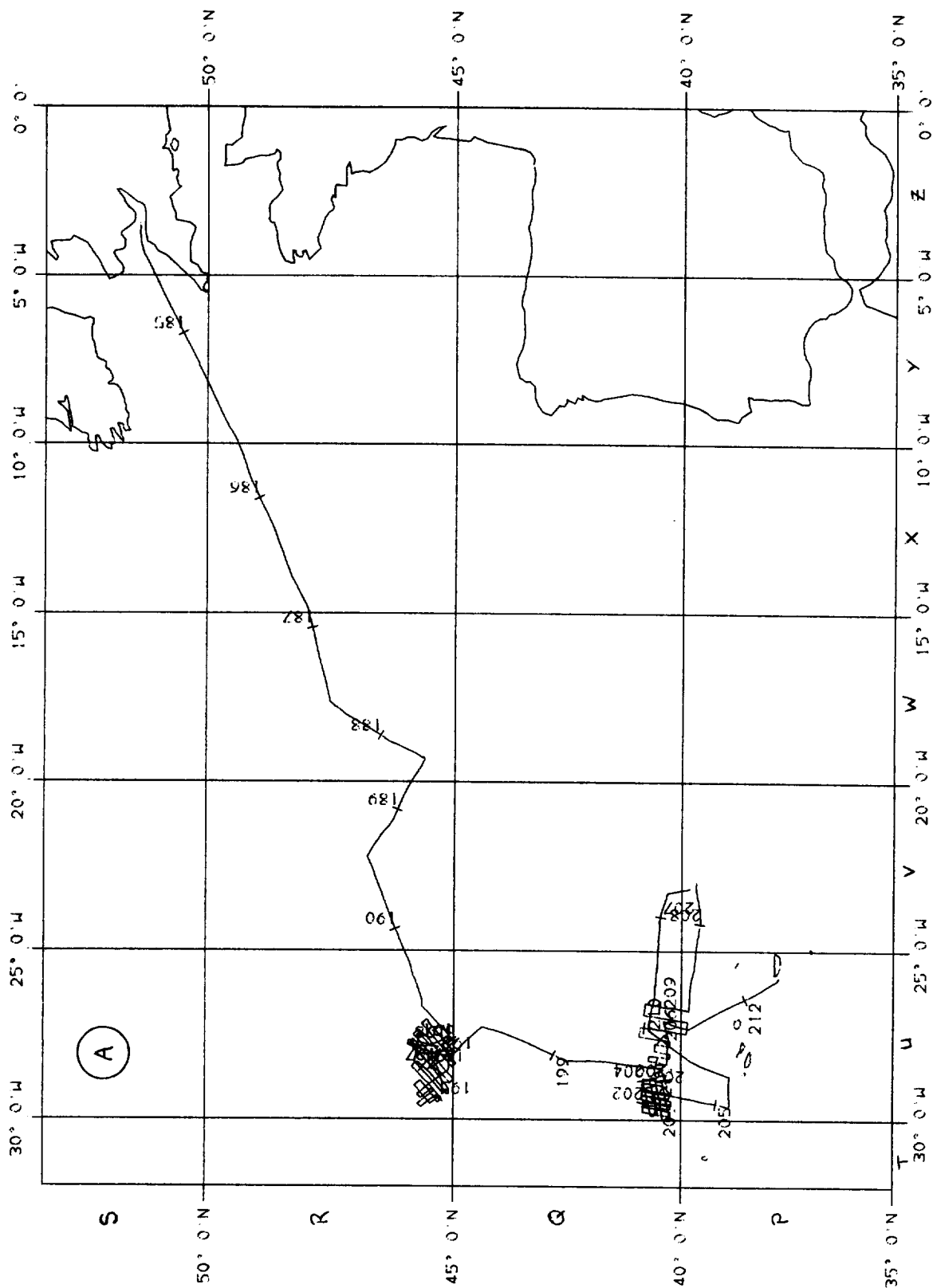
Start Port - Barry
End Port - Azores

Data Starts - 1217z 03-Jul-75
Data Ends - 0638z 31-Jul-75

Latitude minimum - 37.3N
Latitude maximum - 51.3N
Longitude minimum - 30.1W
Longitude maximum - 3.4W

Distribution of data for Discovery Cruise 73 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|----------------|------------|
| ATQ | 23 | 28 | 0 |
| AUP | 591 | 1776 | 0 |
| AUQ | 4916 | 7291 | 0 |
| AUR | 1378 | 5231 | 0 |
| AVP | 196 | 461 | 0 |
| AVQ | 419 | 419 | 0 |
| AVR | 338 | 1014 | 0 |
| AWR | 413 | 1147 | 0 |
| AXR | 293 | 764 | 0 |
| AYR | 2 | 0 | 0 |
| ----- Total | ----- 9079 | ----- 10131 | ----- 0 |



DISCOVERY 73 LEG 1

Discovery Cruise 73 Leg 2

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 17221
Batymetry - 5520
Magnetics - 9173
Gravity - 0

P.S.O. - Laughton

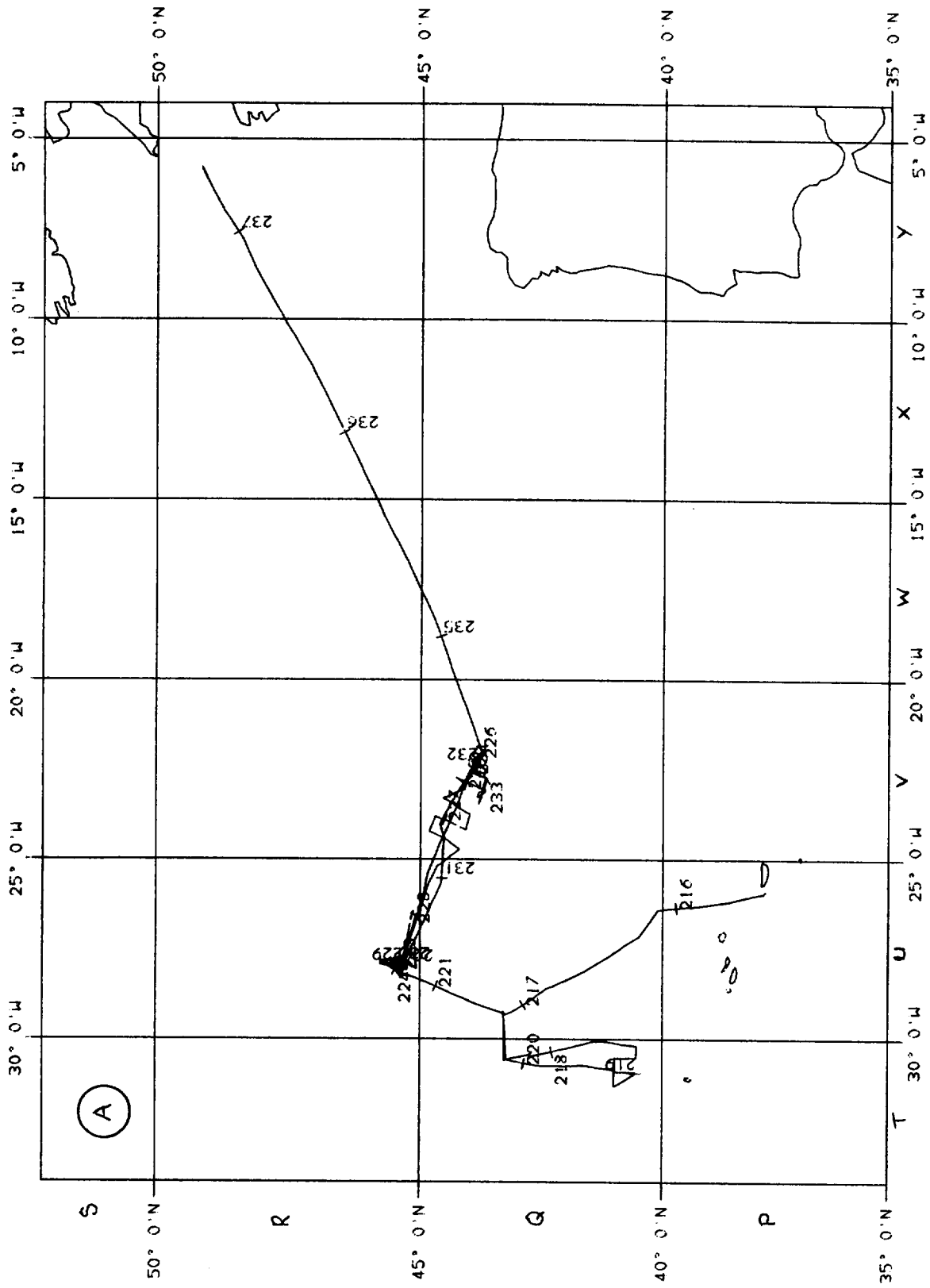
Start Port - Azores
End Port - Southampton

Data Starts - 1132z 03-Aug-75
Data Ends - 0832z 25-Aug-75

Latitude minimum - 37.7N
Latitude maximum - 49.3N
Longitude minimum - 31.4W
Longitude maximum - 5.7W

Distribution of data for Discovery Cruise 73 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|------------|
| ATQ | 571 | 1620 | 0 |
| AUP | 142 | 368 | 0 |
| AUQ | 760 | 1737 | 0 |
| AJR | 1760 | 897 | 0 |
| AVQ | 1665 | 3009 | 0 |
| AWQ | 99 | 327 | 0 |
| AWR | 107 | 319 | 0 |
| AXQ | 35 | 0 | 0 |
| AXR | 215 | 645 | 0 |
| AYR | 66 | 201 | 0 |
| ----- Total | ----- 5520 | ----- 9173 | ----- 0 |



DISCOVERY 73 LEG 2

Discovery Cruise 74 Leg 2

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 7499
Bathymetry - 2375
Magnetics - 5910
Gravity - 0

P.S.O. - Roberts

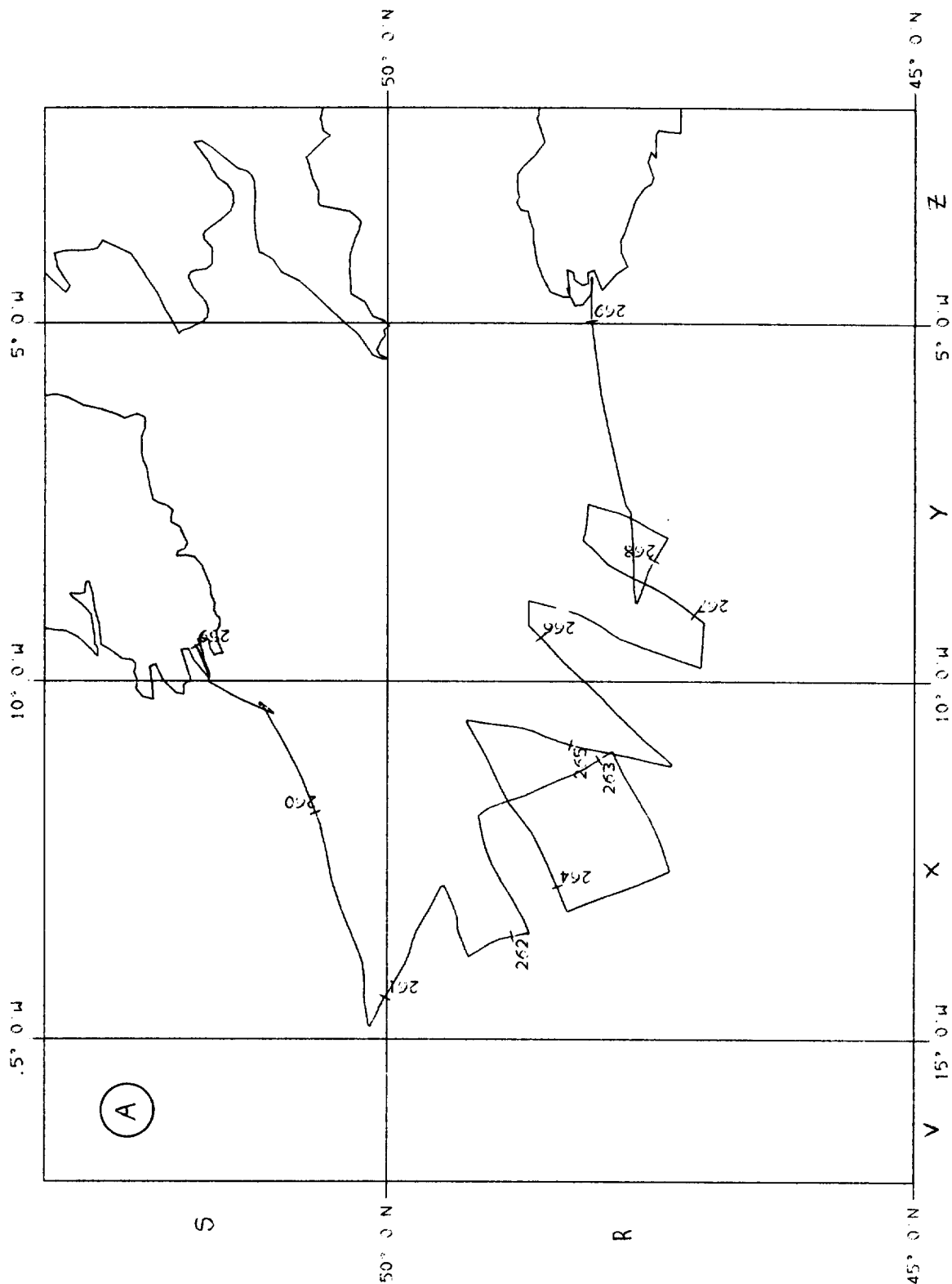
Start Port - Bantry Bay
End Port - Brest

Data Starts - 2114z 15-Sep-75
Data Ends - 0754z 26-Sep-75

Latitude minimum - 47.0N
Latitude maximum - 51.8N
Longitude minimum - 14.9W
Longitude maximum - 4.3W

Distribution of data for Discovery Cruise 74 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|------|------|---|
| AXR | 1124 | 3169 | 0 |
| AXS | 431 | 794 | 0 |
| AYR | 750 | 1946 | 0 |
| AYS | 35 | 1 | 0 |
| AZR | 35 | 0 | 0 |
| Total | 2375 | 5910 | 0 |



DISCOVERY 74 LEG 2

Discovery Cruise 84 Leg 1

Magtapes:-

Original copy
MUG copy
Archive copy

Total records - 12915
Bathymetry - 7595
Magnetics - 9945
Gravity - 3460

P.S.O. - Laughton

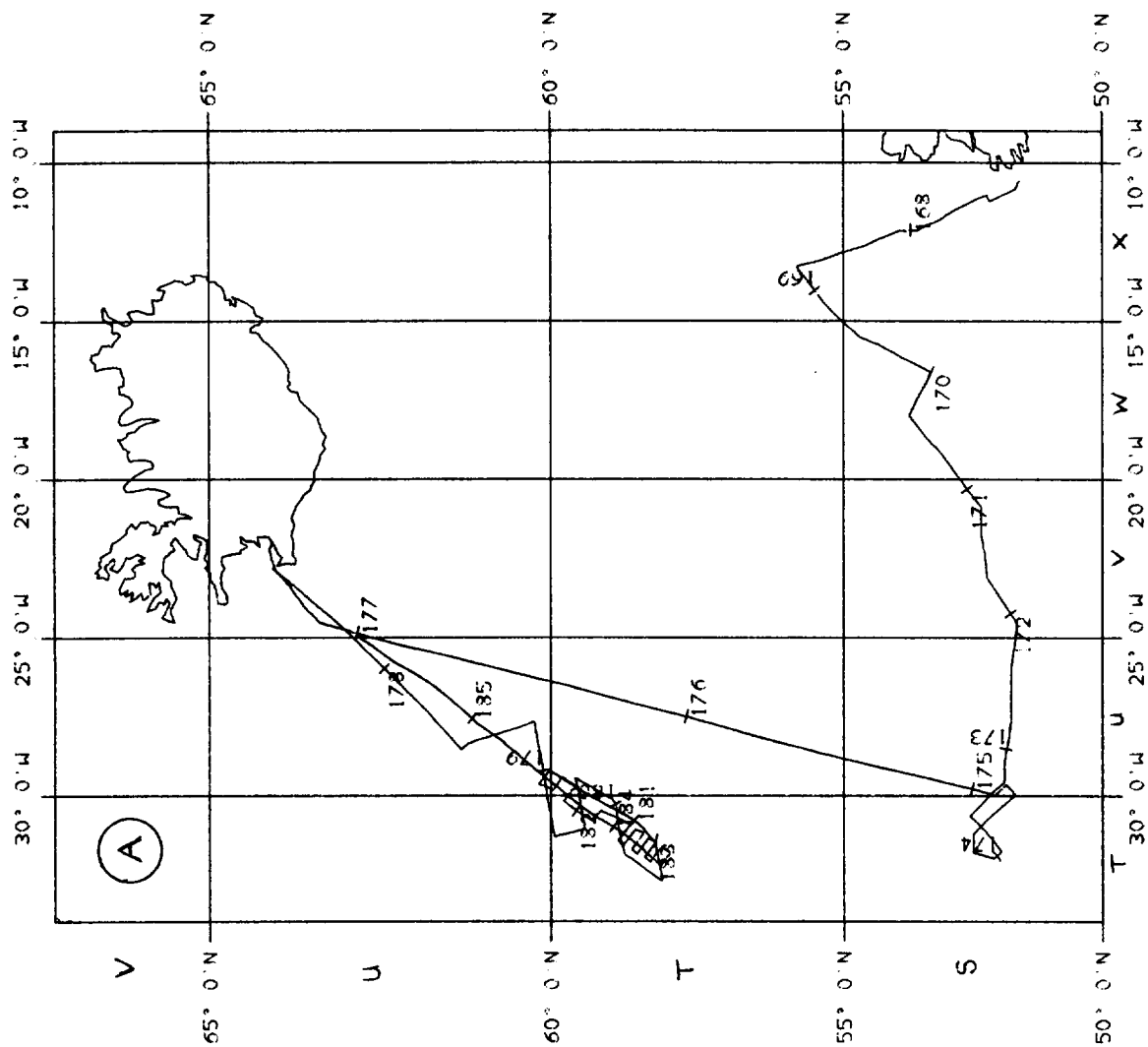
Start Port - Barry
End Port - Reykjavik

Data Starts - 0356z 16-Jun-77
Data Ends - 1410z 04-Jul-77

Latitude minimum - 51.6N
Latitude maximum - 54.2N
Longitude minimum - 32.7W
Longitude maximum - 10.5W

Distribution of data for Discovery Cruise 84 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| ATS | 793 | 903 | 341 |
| ATT | 3008 | 2922 | 2854 |
| ATU | 79 | 76 | 75 |
| AUS | 565 | 1370 | 1031 |
| AUT | 810 | 1252 | 1144 |
| AUU | 1277 | 877 | 2073 |
| AVS | 305 | 900 | 0 |
| AVU | 9 | 0 | 437 |
| AWS | 376 | 1098 | 0 |
| AwT | 5 | 12 | 0 |
| AXS | 183 | 0 | 0 |
| AXT | 192 | 535 | 0 |
| ----- Total | ----- 7595 | ----- 9945 | ----- 3460 |



DISCOVERY 84 LIG 1

Discovery Cruise 84 Leg 2

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 13874
Bathymetry - 6095
Magnetics - 8673
Gravity - 13190

P.S.O. - Laughton

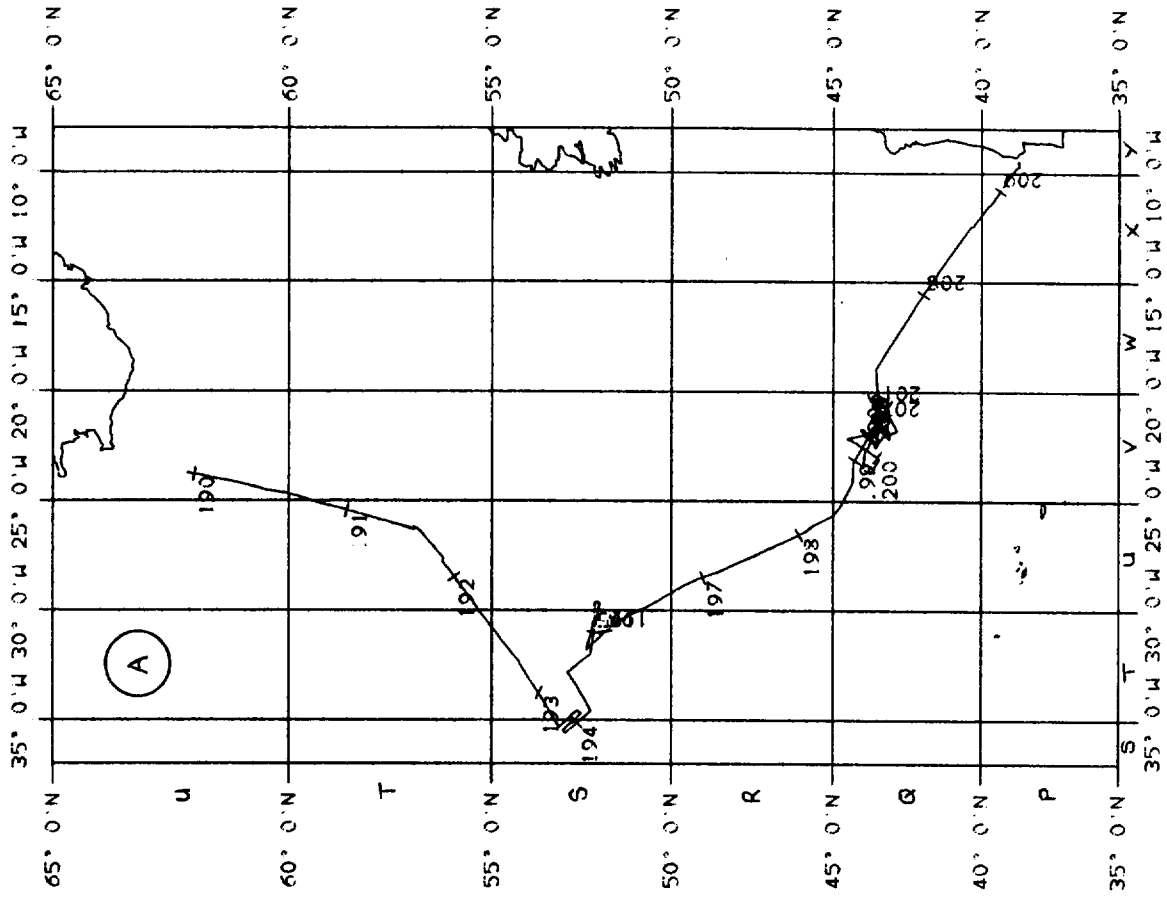
Start Port - Reykjavik
End Port - Lisbon

Data Starts - 2232z 06-Jul-77
Data Ends - 0640z 28-Jul-77

Latitude minimum - 38.6N
Latitude maximum - 62.4N
Longitude minimum - 35.7W
Longitude maximum - 9.4W

Distribution of data for Discovery Cruise 34 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|------|------|-------|
| ATS | 1318 | 2295 | 2243 |
| ATT | 31 | 92 | 85 |
| AUQ | 42 | 126 | 124 |
| AUR | 405 | 1206 | 1167 |
| AUS | 215 | 363 | 331 |
| AUT | 357 | 434 | 1053 |
| AVQ | 2293 | 2573 | 5866 |
| AVT | 37 | 0 | 104 |
| AVU | 108 | 0 | 457 |
| AWQ | 203 | 645 | 614 |
| AXP | 92 | 57 | 293 |
| AXQ | 151 | 459 | 433 |
| AYP | 17 | 0 | 54 |
| Total | 6095 | 8673 | 13190 |



DISCOVERY 34 LEC 2

Discovery Cruise 90 Leg 1

Magtapes:-

Original copy

MGG copy
Archive copy

Total records - 12459
Bathymetry - 3900
Magnetics - 7750
Gravity - 3890

P.S.O. - Roberts

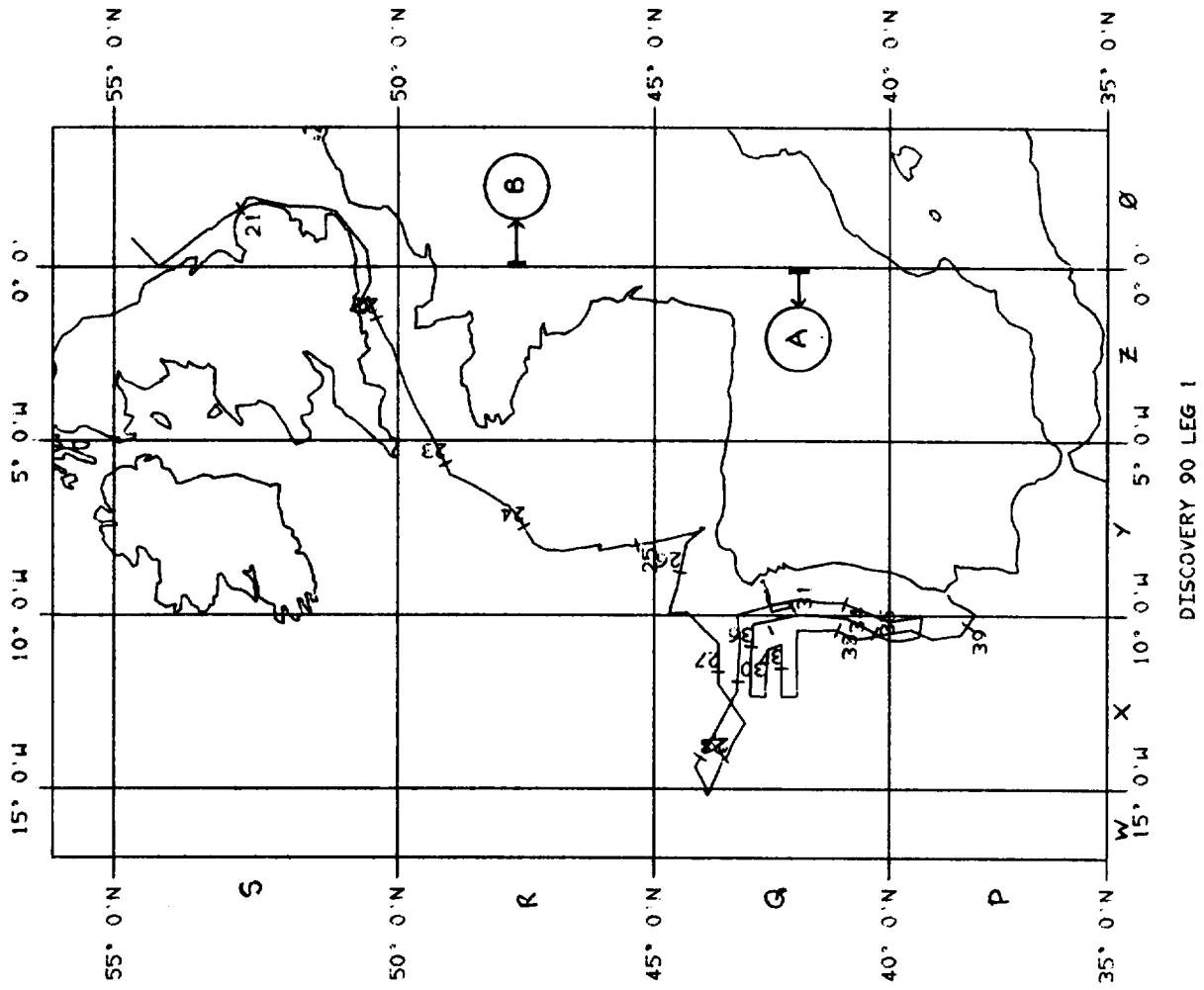
Start Port - South Shields
End Port - Lisbon

Data Starts - 1228z 20-Jan-78
Data Ends - 0904z 08-Feb-78

Latitude minimum - 38.0N
Latitude maximum - 54.7N
Longitude minimum - 15.2W
Longitude maximum - 2.0W

Distribution of data for Discovery Cruise 90 Leg 1:-

| Geographical Area Code | R | M | G |
|---------------------------|---------------|---------------|---------------|
| AWQ | 40 | 0 | 74 |
| AXP | 304 | 888 | 906 |
| AXQ | 1752 | 4349 | 5125 |
| AYP | 51 | 153 | 192 |
| AYQ | 714 | 2067 | 2211 |
| AYR | 537 | 293 | 382 |
| AZR | 126 | 0 | 0 |
| AZS | 109 | 0 | 0 |
| BCS | 257 | 0 | 0 |
| ----- Total | ----- 3900 | ----- 7750 | ----- 3890 |



Discovery Cruise 90 Leg 2

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 12613
Bathymetry - 4133
Magnetics - 11565
Gravity - 12182

P.S.O. - Roberts

Start Port - Lisbon

End Port - Brest

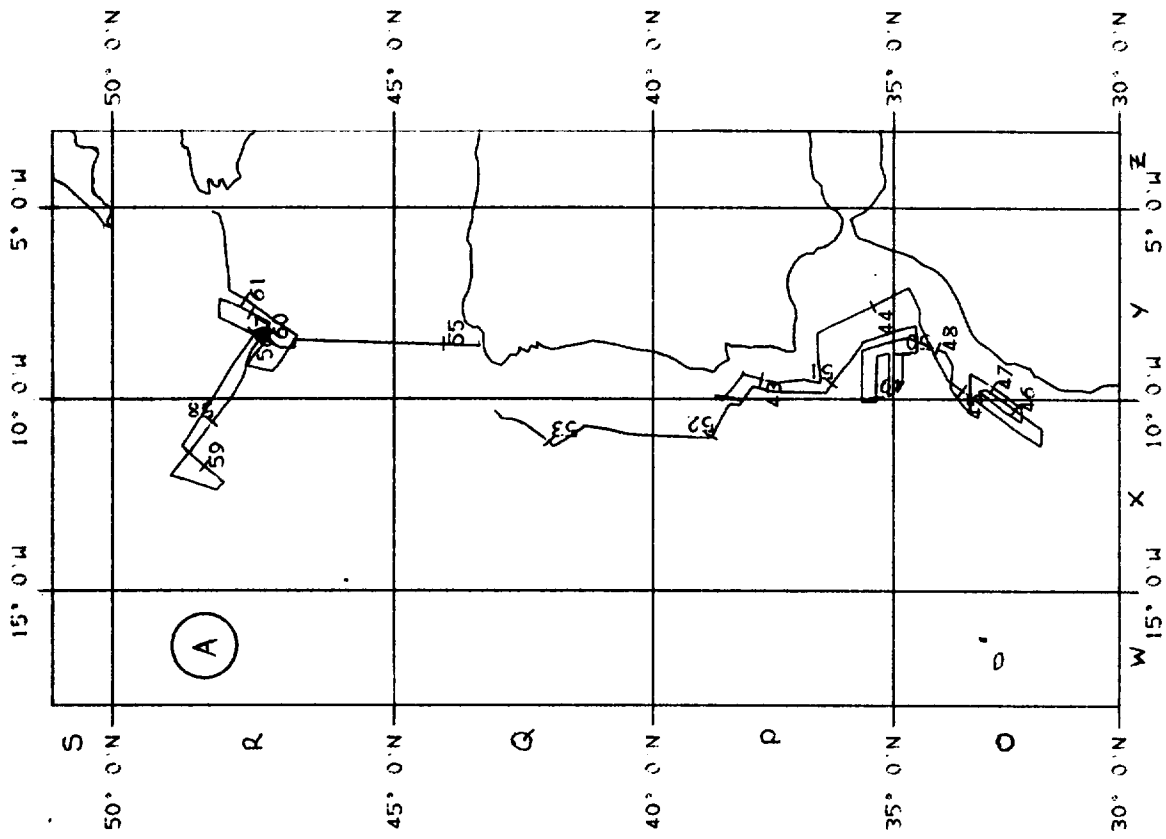
Data Starts - 1412z 11-Feb-78

Data Ends - 1316z 02-Mar-78

Latitude minimum - 31.8N
Latitude maximum - 49.1N
Longitude minimum - 15.5W
Longitude maximum - 5.1W

Distribution of data for Discovery Cruise 90 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|----------------|----------------|
| AXO | 412 | 1027 | 1235 |
| AXP | 210 | 616 | 628 |
| AXQ | 242 | 719 | 441 |
| AXR | 396 | 1150 | 1186 |
| AYO | 756 | 1936 | 2219 |
| AYP | 950 | 2365 | 2861 |
| AYQ | 53 | 215 | 224 |
| AYR | 1089 | 3037 | 3388 |
| ----- Total | ----- 4133 | ----- 11565 | ----- 12182 |



DISCOVERY 90 LEG 2

Discovery Cruise 91

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 15812
Bathymetry - 8697
Magnetics - 14897
Gravity - 14375

P.S.O. - Searle

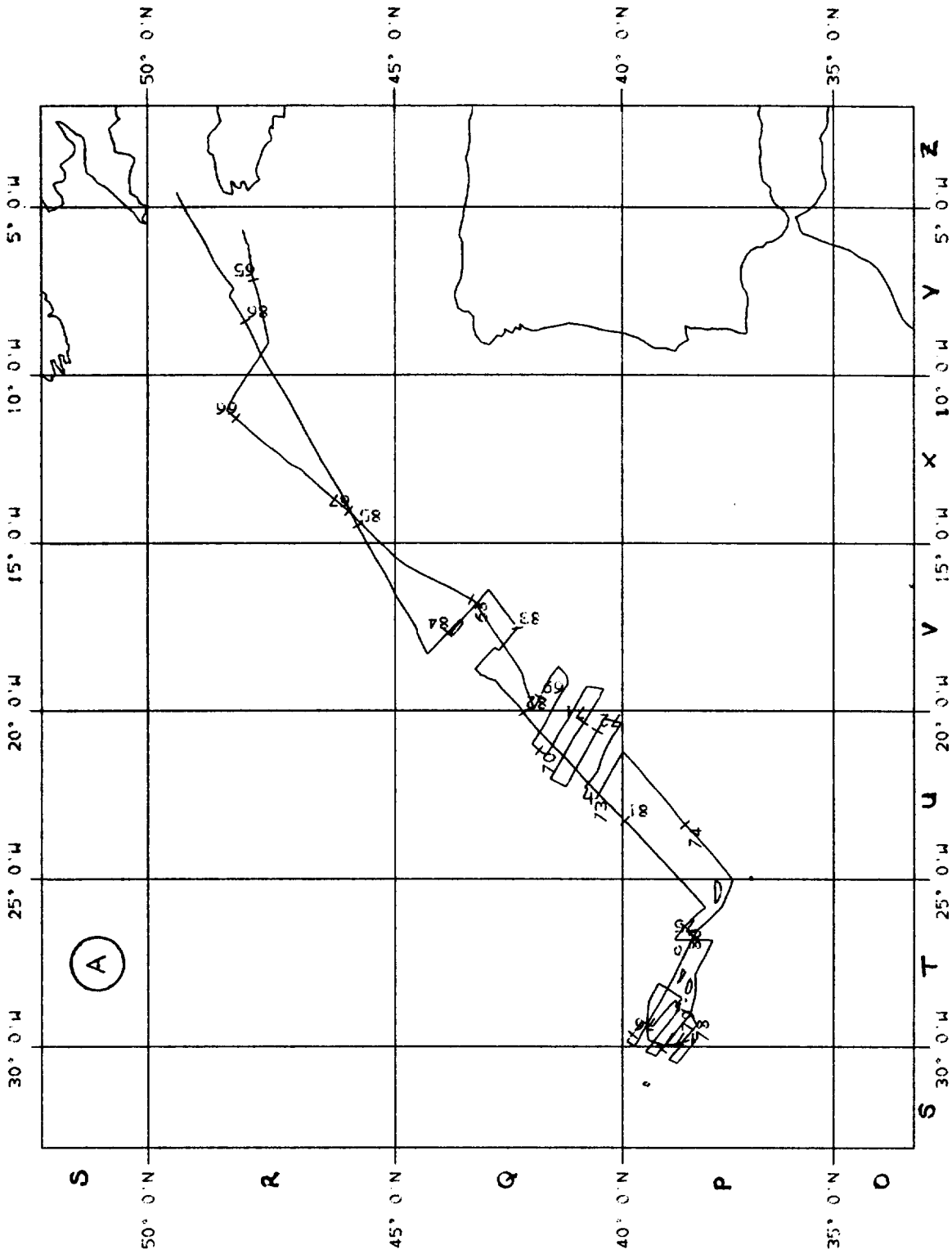
Start Port - Brest
End Port - Southampton

Data Starts - 1604z 05-Mar-78
Data Ends - 1520z 27-Mar-78

Latitude minimum - 35.0N
Latitude maximum - 49.5N
Longitude minimum - 30.5W
Longitude maximum - 4.5W

Distribution of data for Discovery Cruise 91:-

| Geographical Area Code | B | M | G |
|---------------------------|-------------|--------------|--------------|
| ATP | 332 | 373 | 372 |
| AUP | 3200 | 3345 | 3551 |
| AVP | 568 | 1223 | 1221 |
| AVQ | 1320 | 3019 | 3010 |
| AWQ | 1811 | 3714 | 3498 |
| AWR | 152 | 291 | 279 |
| AXR | 893 | 1743 | 1751 |
| AYR | 399 | 689 | 693 |
| <u>Total</u> | <u>8697</u> | <u>14897</u> | <u>14375</u> |



DISCOVERY 91

Discovery Cruise 93 Leg 1

Magtapes:-

Original copy

MGG copy
Archive copy

Total records - 13109
Bathymetry - 3072
Magnetics - 3390
Gravity - 10249

P.S.O. - Whitmarsh

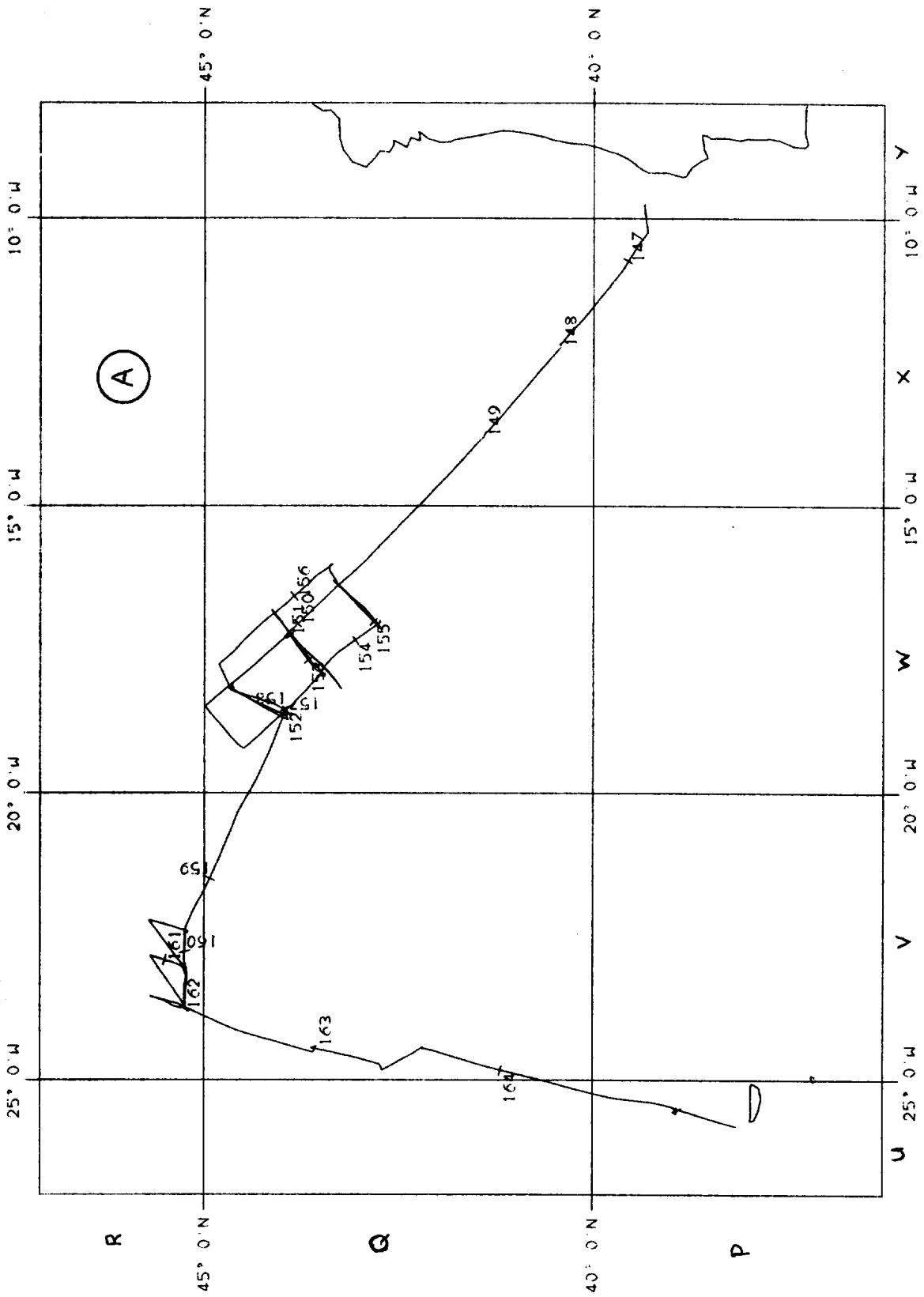
Start Port - Lisbon
End Port - Azores

Data Starts - 1918z 26-May-78
Data Ends - 2210z 13-Jun-78

Latitude minimum - 38.0N
Latitude maximum - 45.7N
Longitude minimum - 25.9W
Longitude maximum - 9.7W

Distribution of data for Discovery Cruise 93 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|------|------|-------|
| AUP | 95 | 207 | 201 |
| AUQ | 41 | 123 | 122 |
| AVQ | 336 | 347 | 1432 |
| AVR | 641 | 163 | 1561 |
| AWQ | 1791 | 2050 | 5579 |
| AXQ | 115 | 0 | 1346 |
| Total | 3072 | 3390 | 10249 |



DISCOVERY 93 LCG 1

Discovery Cruise 93 Leg 2

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 11311
Bathymetry - 3217
Magnetics - 3184
Gravity - 9328

P.S.O. - Whitmarsh

Start Port - Azores

End Port - Barry

Data Starts - 0416z 18-Jun-78

Data Ends - 2100z 03-Jul-78

Latitude minimum - 43.3N

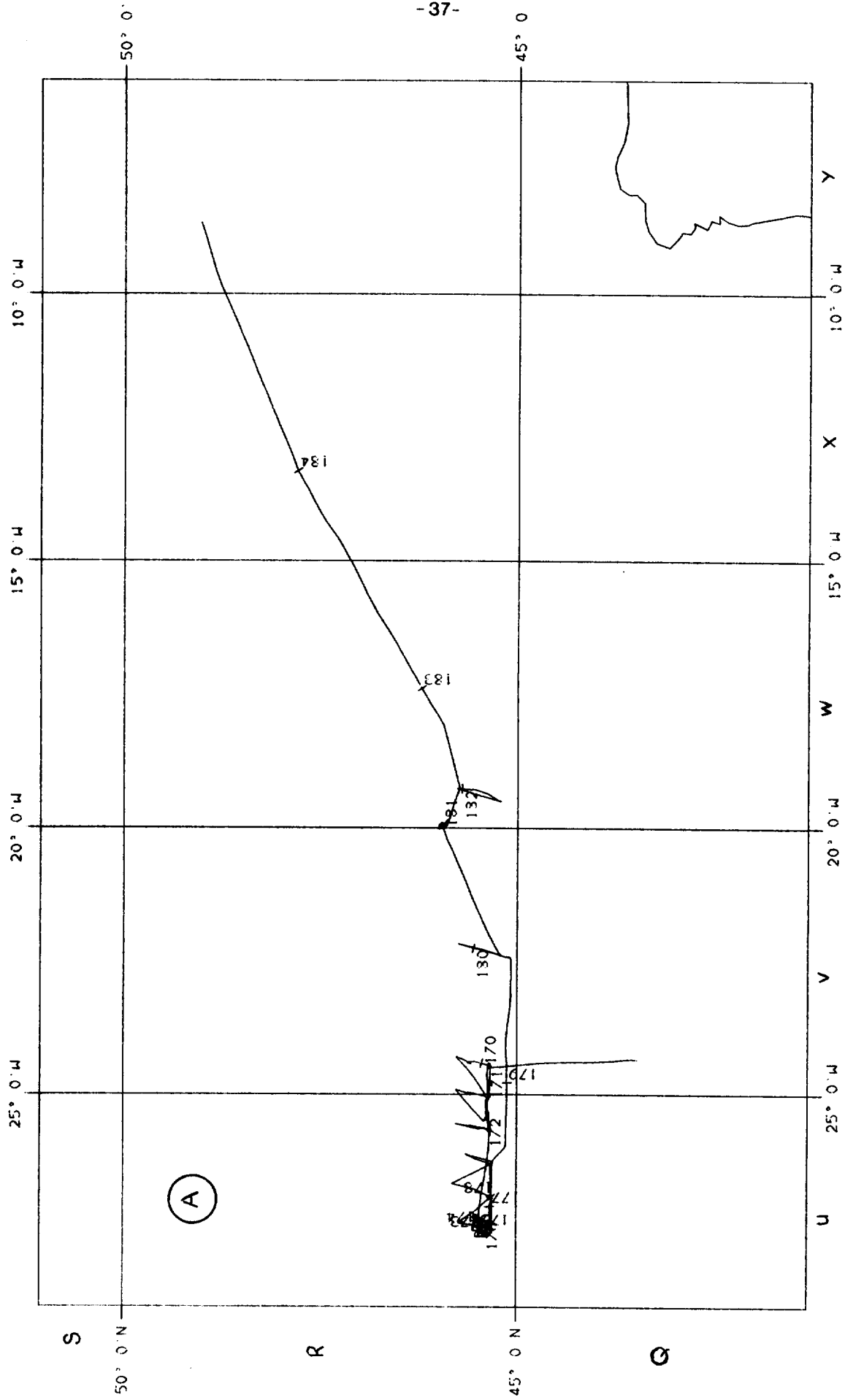
Latitude maximum - 49.1N

Longitude minimum - 27.7W

Longitude maximum - 8.6W

Distribution of data for Discovery Cruise 93 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|------|------|------|
| AUR | 1602 | 439 | 4607 |
| AVQ | 116 | 354 | 345 |
| AVR | 722 | 657 | 2115 |
| AWP | 514 | 762 | 1211 |
| AXR | 260 | 772 | 781 |
| AYR | 3 | 0 | 169 |
| Total | 3217 | 3184 | 9328 |



DISCOVERY 93 LCC 2

Discovery Cruise 95

Magtapes:-

Original copy
MSG copy
Archive copy

Total records - 7329
Bathymetry - 1899
Magnetics - 0
Gravity - 0

P.S.O. - Selderson

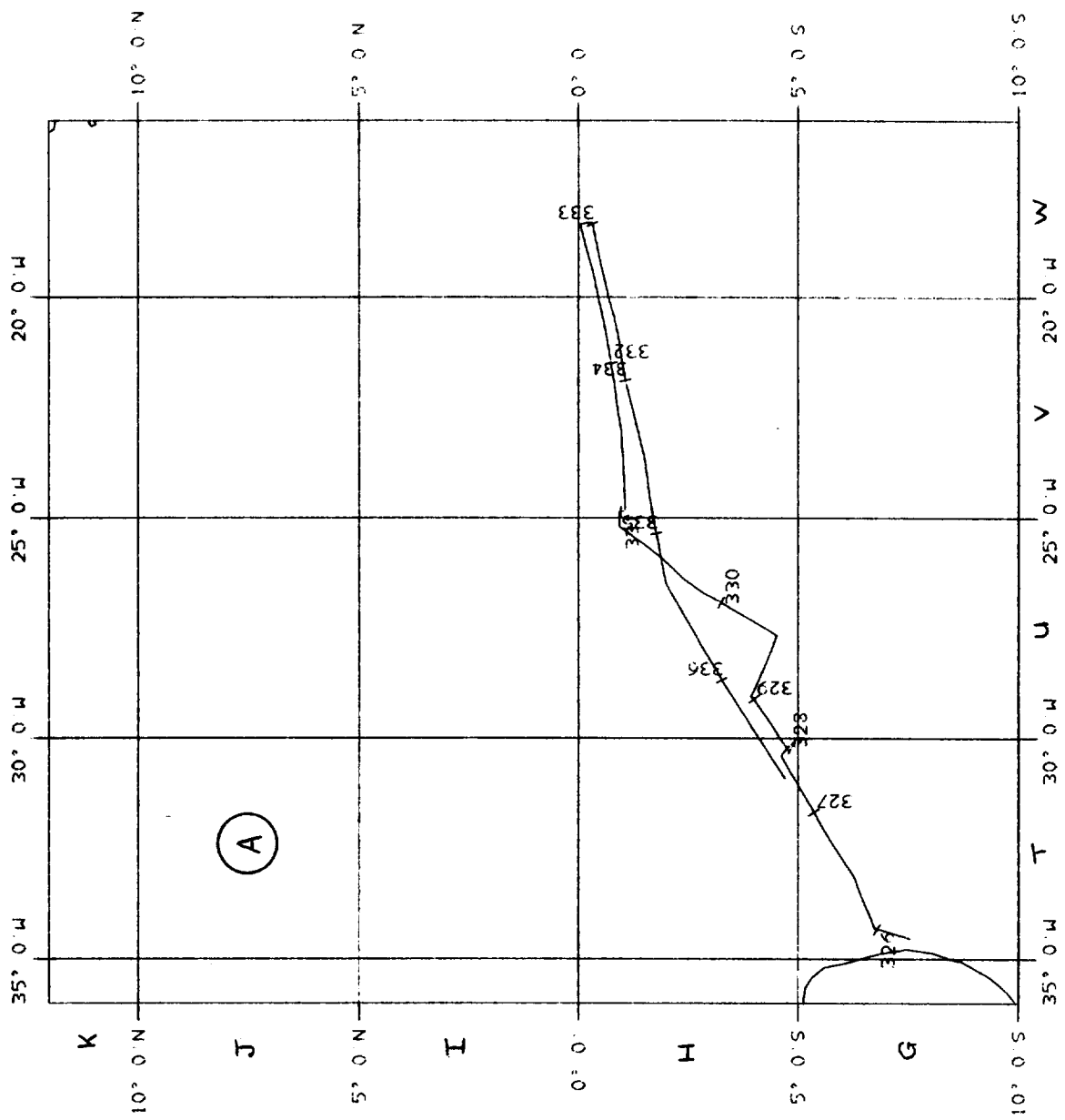
Start Port - Recife
End Port - Recife

Data Starts - 1656z 21-Nov-78
Data Ends - 1602z 02-Dec-78

Latitude minimum - 7.0S
Latitude maximum - 0.0
Longitude minimum - 34.6W
Longitude maximum - 18.3W

Distribution of data for Discovery Cruise 96:-

| Geographical Area Code | S | M | G |
|---------------------------|------|---|---|
| ATG | 309 | 0 | 0 |
| ATH | 47 | 0 | 0 |
| AUH | 720 | 0 | 0 |
| AVH | 632 | 0 | 0 |
| AWH | 191 | 0 | 0 |
| Total | 1899 | 0 | 0 |



DISCOVERY 96

Discovery Cruise 101

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 17803
Bathymetry - 5776
Magnetics - 15387
Gravity - 16998

P.S.O. - Roberts

Start Port - Capetown
End Port - Seychelles

Data Starts - 2338z 10-Apr-79
Data Ends - 0214z 06-May-79

Latitude minimum - 37.0S
Latitude maximum - 3.2S
Longitude minimum - 19.1E
Longitude maximum - 56.1E

Distribution of data for Discovery Cruise 101:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|----------------|----------------|
| B3A | 56 | 0 | 116 |
| B4A | 402 | 431 | 1110 |
| B5A | 103 | 306 | 304 |
| B5B | 220 | 653 | 641 |
| B6E | 266 | 797 | 790 |
| B7B | 238 | 656 | 623 |
| B8B | 216 | 641 | 640 |
| B8C | 9 | 26 | 26 |
| B9C | 220 | 702 | 694 |
| BAC | 143 | 421 | 406 |
| BAD | 240 | 710 | 672 |
| BAE | 262 | 546 | 766 |
| BAF | 279 | 836 | 825 |
| BAG | 2189 | 6362 | 6655 |
| BAH | 531 | 1597 | 1567 |
| BbG | 330 | 1135 | 1102 |
| BSH | 20 | 68 | 56 |
| ----- Total | ----- 5776 | ----- 15387 | ----- 16998 |

Discovery Cruise 103A

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 6379
Bathymetry - 4625
Magnetics - 4364
Gravity - 6171

P.S.O. - Searle

Start Port - Djibuti

End Port - Suez

Data Starts - 1106z 09-Jul-79

Data Ends - 0734z 18-Jul-79

Latitude minimum - 11.0N

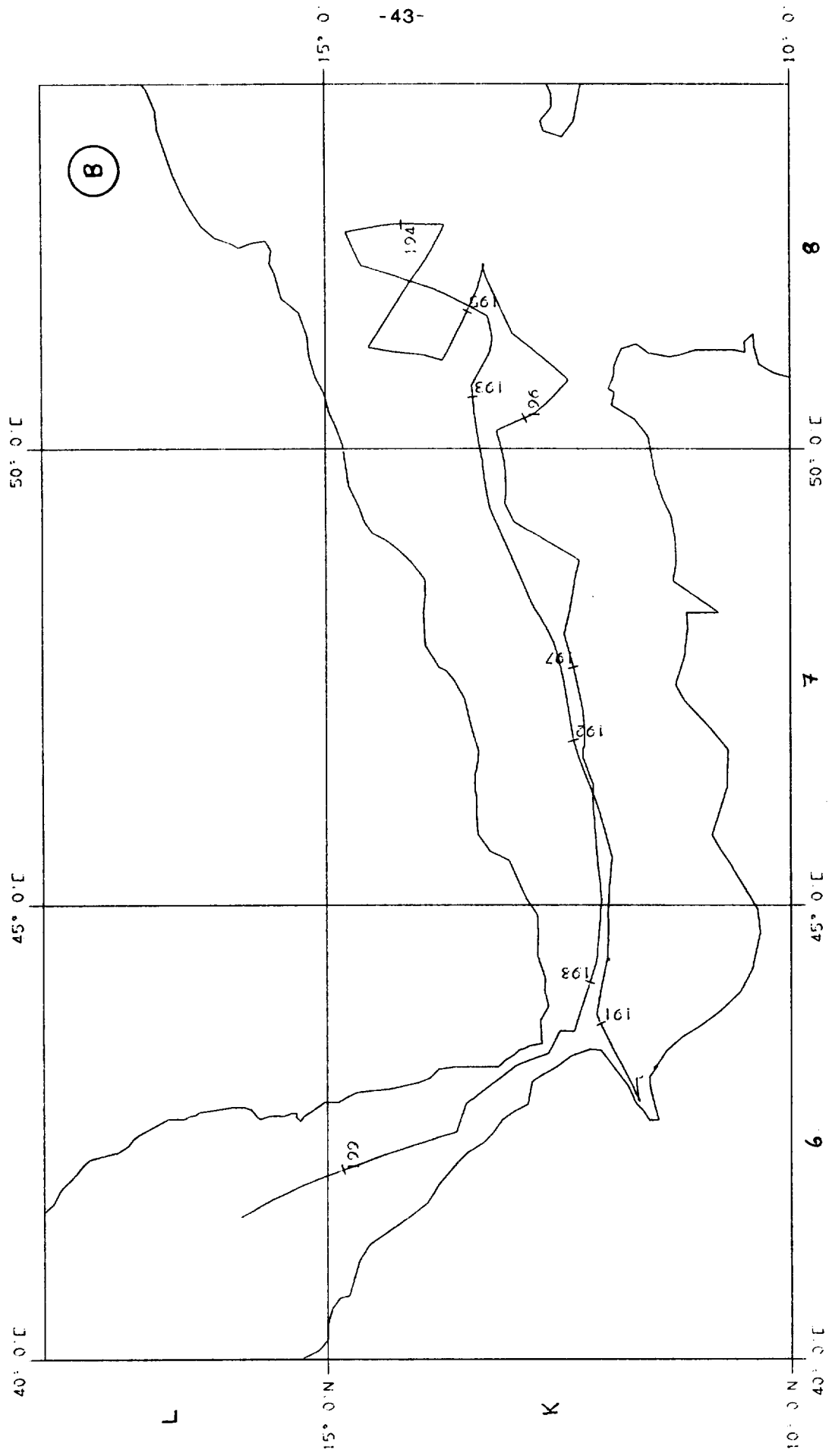
Latitude maximum - 16.0N

Longitude minimum - 41.5E

Longitude maximum - 52.5E

Distribution of data for Discovery Cruise 103 Part A:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| 88K | 714 | 854 | 1662 |
| 86L | 100 | 194 | 172 |
| 89K | 1899 | 1845 | 2053 |
| 8AK | 1912 | 1471 | 2284 |
| ----- Total | ----- 4625 | ----- 4364 | ----- 6171 |



Discovery Cruise 103B

Magtapes:-

Original copy

MGS copy
Archive copy

Total records - 3712
Bathymetry - 2452
Magnetics - 2082
Gravity - 2293

P.S.O. - Searle

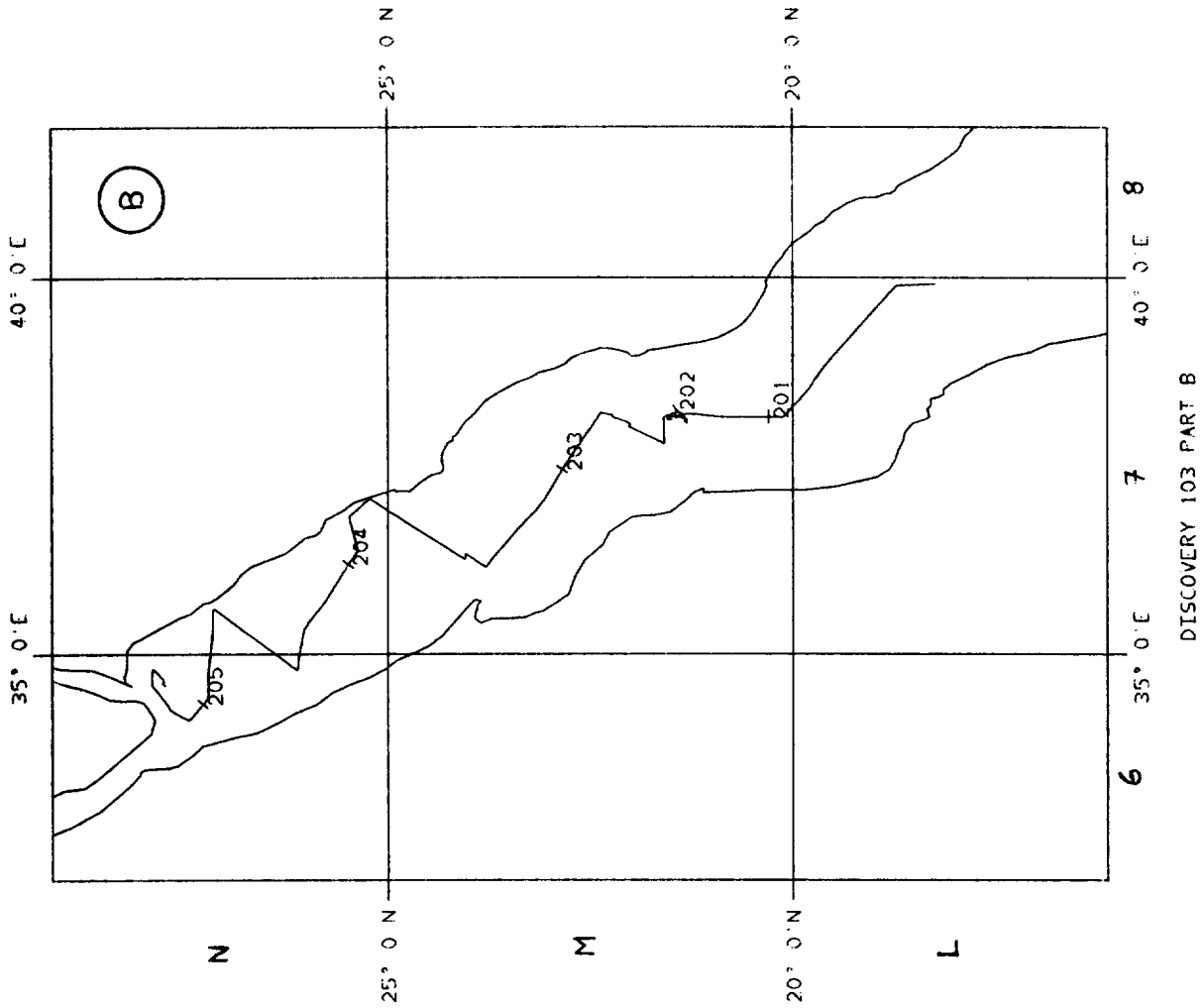
Start Port - Djibuti
End Port - Suez

Data Starts - 0550z 19-Jul-79
Data Ends - 0920z 24-Jul-79

Latitude minimum - 18.1N
Latitude maximum - 27.9N
Longitude minimum - 34.1E
Longitude maximum - 40.0E

Distribution of data for Discovery Cruise 103 Part B:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| 56N | 405 | 410 | 484 |
| 57L | 462 | 475 | 470 |
| 57M | 1234 | 973 | 1018 |
| 57N | 301 | 224 | 321 |
| ----- Total | ----- 2452 | ----- 2082 | ----- 2293 |



Discovery Cruise 104

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 12252
Bathymetry - 2596
Magnetics - 0
Gravity - 0

P.S.O. - Kenyon

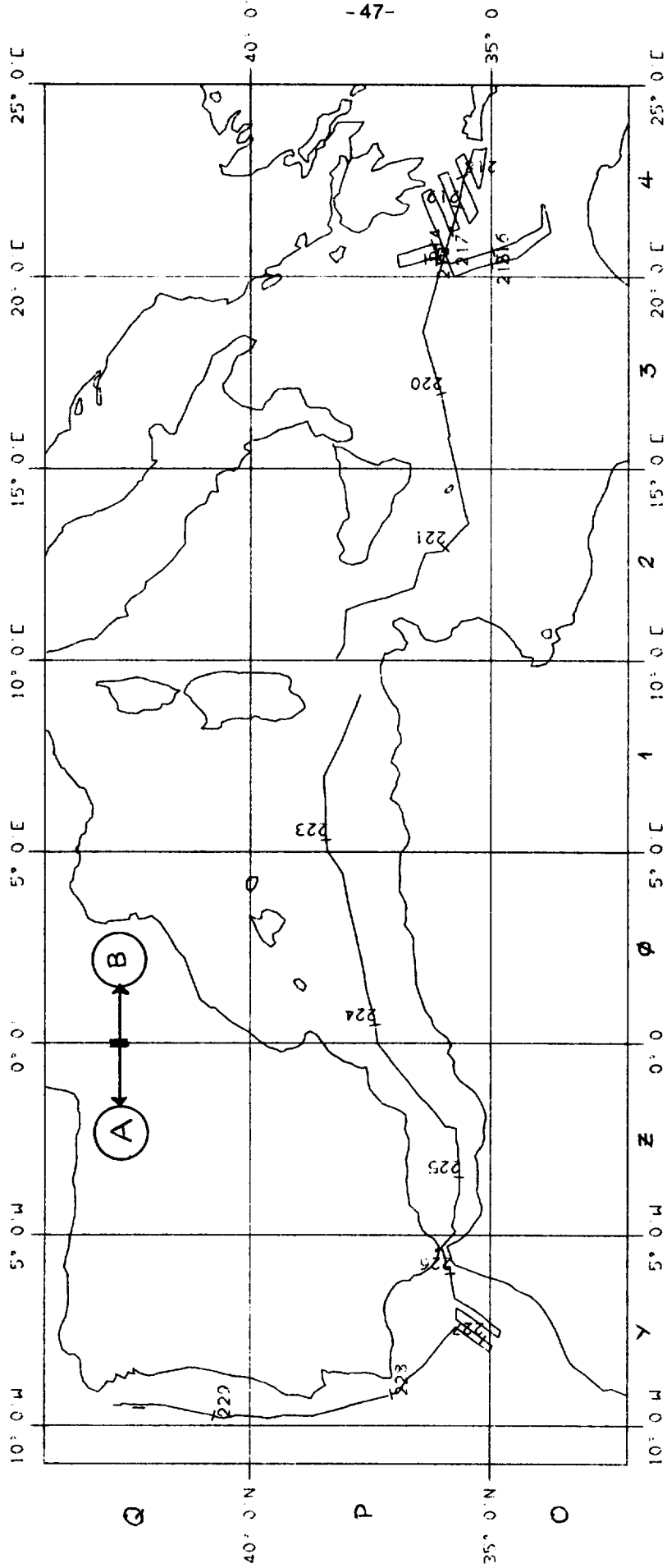
Start Port - Suez
End Port - Barry

Data Starts - 1027z 31-Jul-79
Data Ends - 1150z 17-Aug-79

Latitude minimum - 33.7N
Latitude maximum - 42.7N
Longitude minimum - 9.9W
Longitude maximum - 23.4E

Distribution of data for Discovery Cruise 104:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|------------|------------|
| AYO | 51 | 0 | 0 |
| AYP | 231 | 0 | 0 |
| AZP | 138 | 0 | 0 |
| BOP | 213 | 0 | 0 |
| B1P | 254 | 0 | 0 |
| B2P | 263 | 0 | 0 |
| B3P | 236 | 0 | 0 |
| B40 | 237 | 0 | 0 |
| B4P | 933 | 0 | 0 |
| ----- Total | ----- 2596 | ----- 0 | ----- 0 |



DISCOVERY 104

Discovery Cruise 106 Leg 2

Magtapes:-

Original copy
MGS copy
Archive copy

Total records - 12222
Bathymetry - 2397
Magnetics - 7416
Gravity - 0

P.S.O. - Kidd

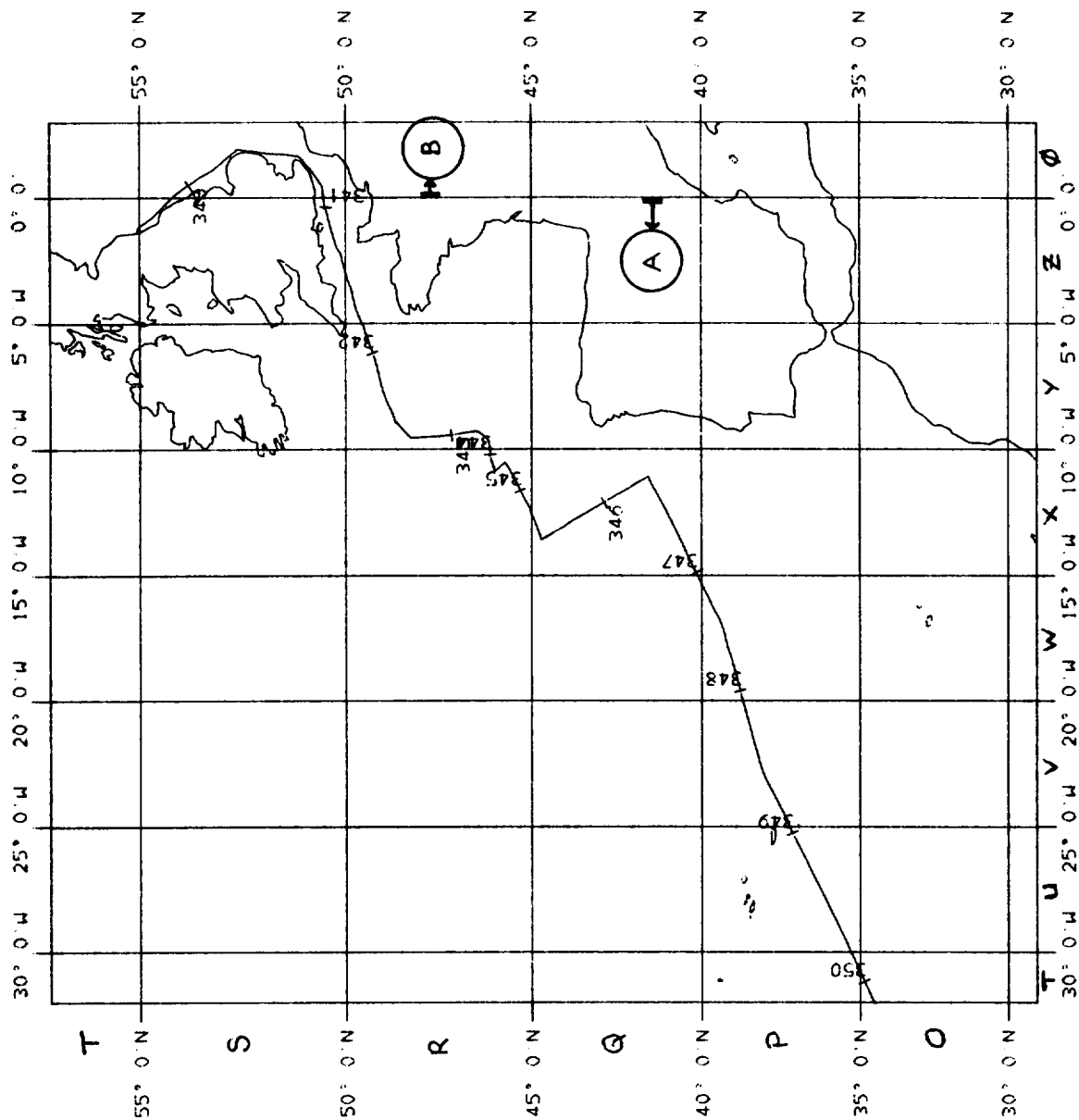
Start Port - South Shields
End Port - Puerto Rico

Data Starts - 1354z 05-Dec-79
Data Ends - 1432z 22-Dec-79

Latitude minimum - 13.5N
Latitude maximum - 55.0N
Longitude minimum - 66.1W
Longitude maximum - 2.0E

Distribution of data for Discovery Cruise 106 Part A:-

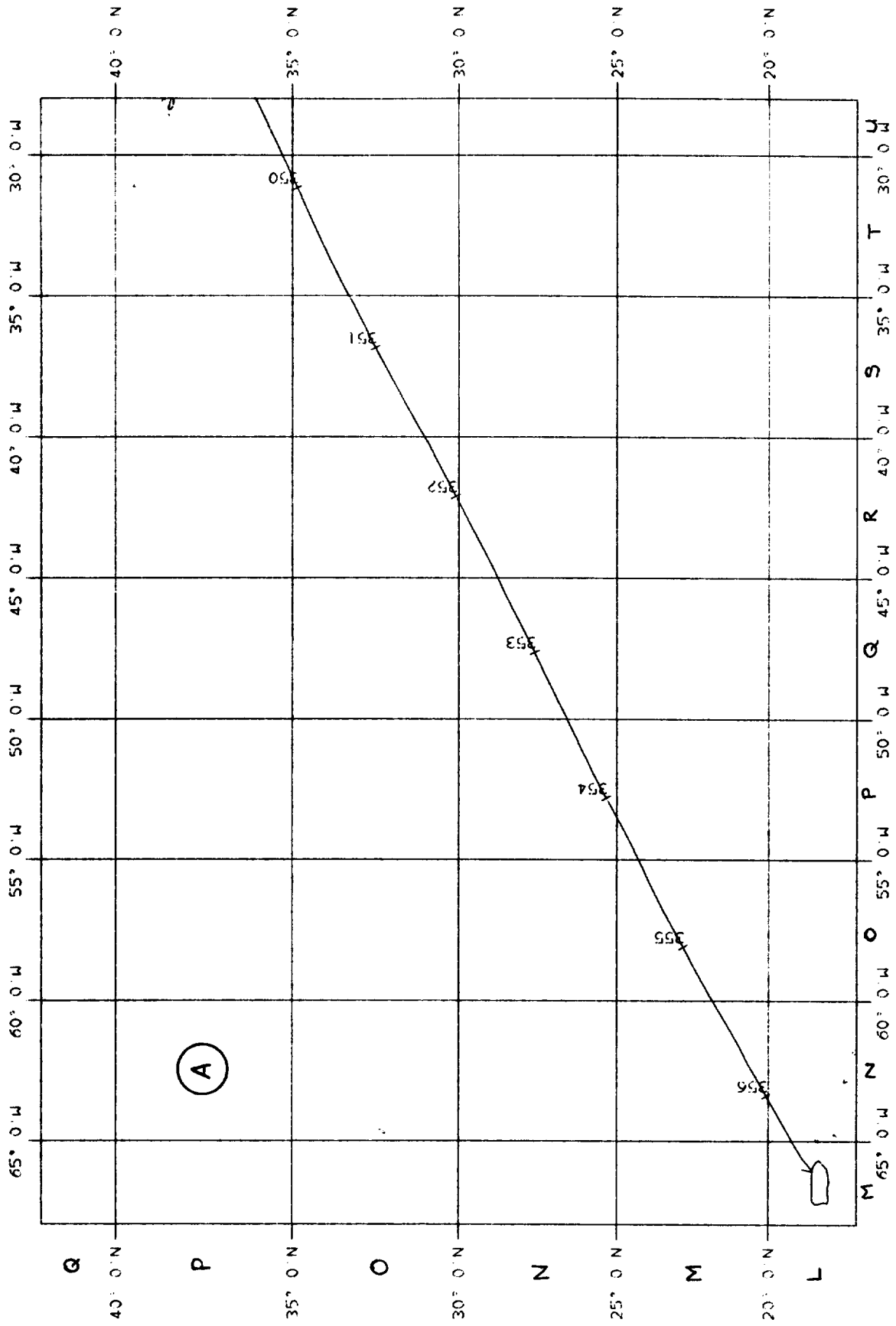
| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|------------|
| AUP | 3 | 554 | 0 |
| AVP | 34 | 391 | 0 |
| AWP | 222 | 620 | 0 |
| AWQ | 13 | 40 | 0 |
| AXJ | 412 | 1132 | 0 |
| AXR | 337 | 0 | 0 |
| AYP | 315 | 168 | 0 |
| ----- Total | ----- 1336 | ----- 2905 | ----- 0 |



DISCOVERY 106 PART A

Distribution of data for Discovery Cruise 106 Part B:-

| Geographical Area Code | H | M | G |
|---------------------------|---------------|---------------|------------|
| AML | 49 | 173 | 0 |
| ANL | 59 | 196 | 0 |
| AMH | 149 | 462 | 0 |
| AJM | 199 | 630 | 0 |
| APM | 56 | 199 | 0 |
| APN | 155 | 487 | 0 |
| AQN | 215 | 641 | 0 |
| ARN | 112 | 321 | 0 |
| AKO | 100 | 297 | 0 |
| ASO | 217 | 467 | 3 |
| ATO | 171 | 495 | 0 |
| ATP | 31 | 93 | 0 |
| ----- Total | ----- 1511 | ----- 4511 | ----- 3 |



DISCOVERY 106 PART B

Discovery Cruise 107 Leg 1

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 1713
Satnometry - 450
Magnetics - 900
Gravity - 1459

P.S.O. - whitmarsh

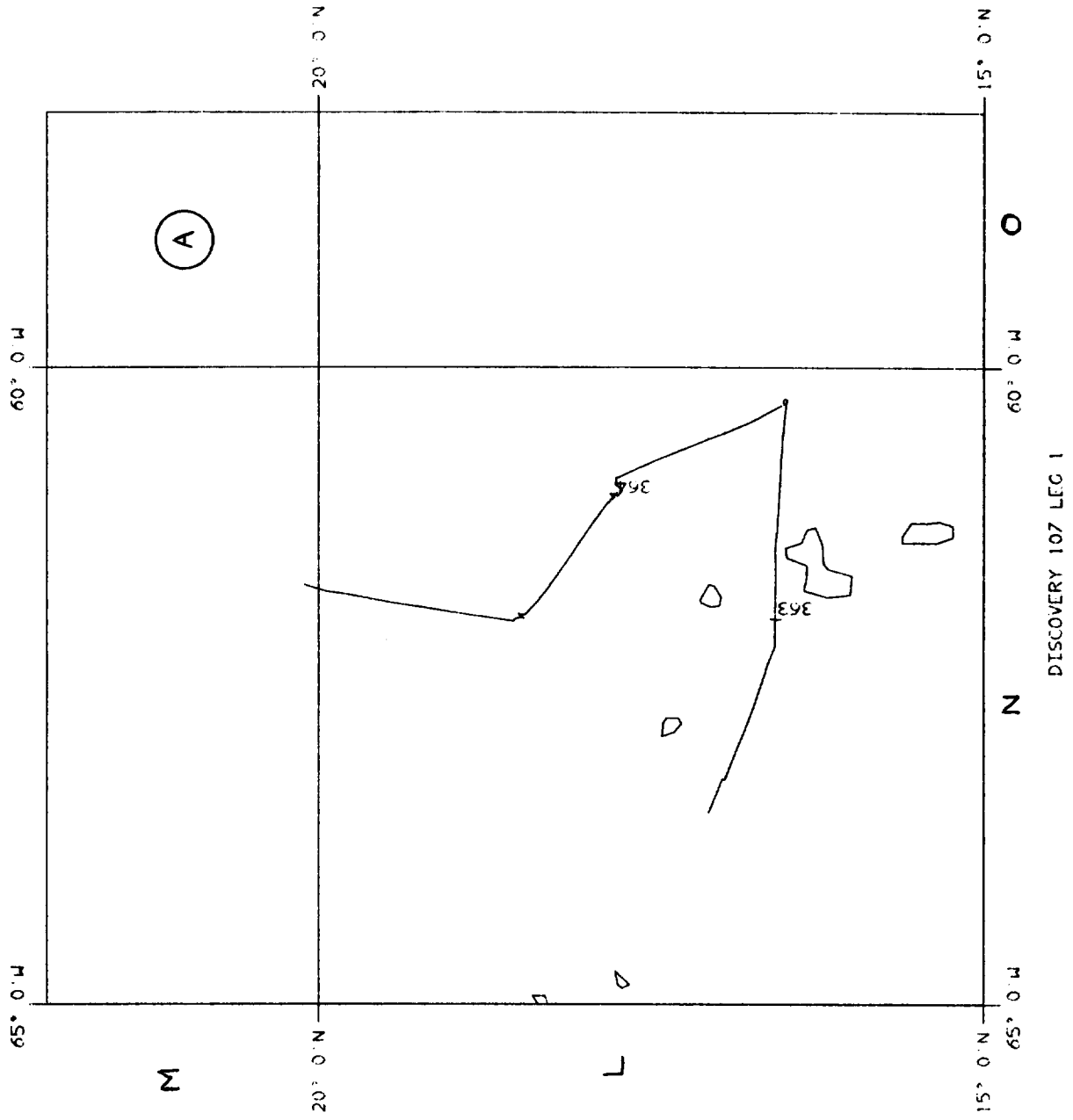
Start Port - Puerto Rico
End Port - Barbados

Data Starts - 1502z 28-Dec-79
Data Ends - 2350z 30-Dec-79

Latitude minimum - 18.4N
Latitude maximum - 25.2N
Longitude minimum - 63.6W
Longitude maximum - 60.2W

Distribution of data for Discovery Cruise 107 Leg 1:-

| Geographical Area Code | S | M | G |
|---------------------------|--------------|--------------|---------------|
| ANL | 450 | 882 | 1459 |
| AML | 0 | 13 | 0 |
| ----- Total | ----- 450 | ----- 900 | ----- 1459 |



Discovery Cruise 107 Leg 2

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 12658
Bathymetry - 3294
Magnetics - 2368
Gravity - 9590

P.S.O. - whitmarsh

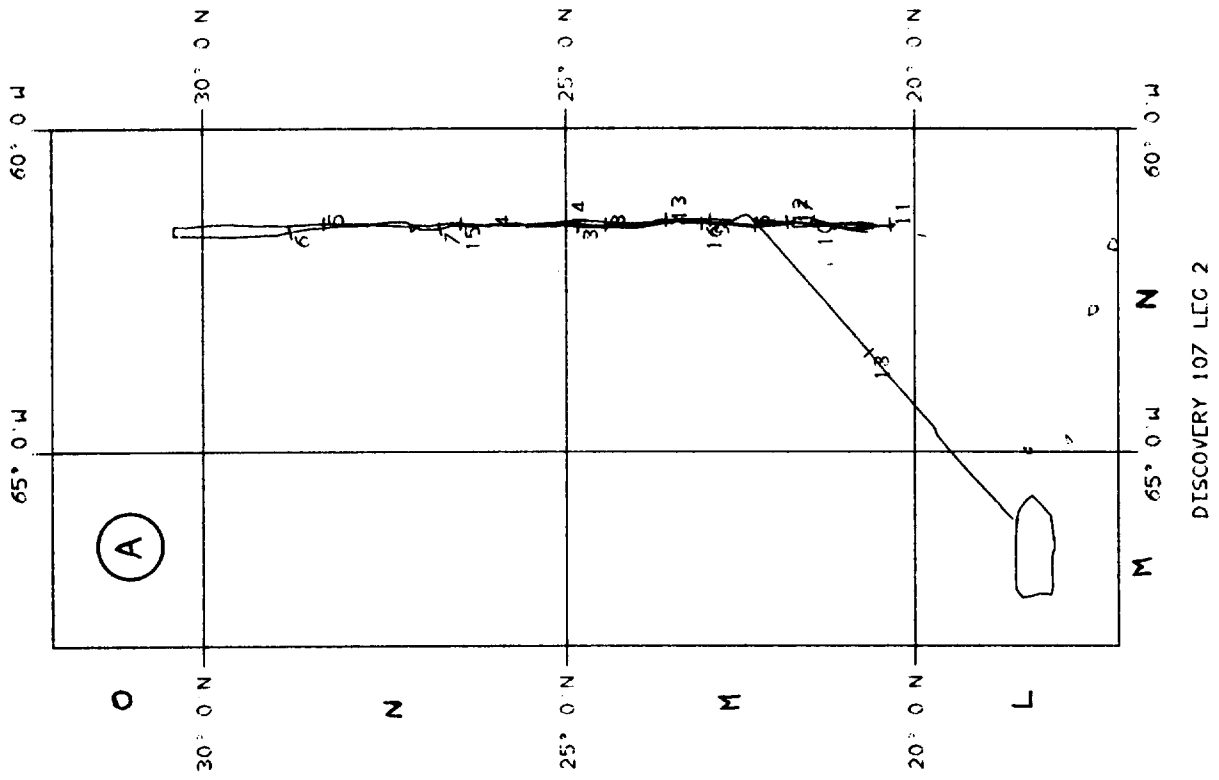
Start Port - Puerto Rico
End Port - Barbados

Data Starts - 0110z 01-Jan-80
Data Ends - 1450z 18-Jan-80

Latitude minimum - 18.5N
Latitude maximum - 30.4N
Longitude minimum - 66.1W
Longitude maximum - 61.3W

Distribution of data for Discovery Cruise 107 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|-------------|-------------|-------------|
| AML | 3 | 23 | 136 |
| ANL | 38 | 113 | 109 |
| ANM | 2032 | 1126 | 5743 |
| ANN | 1163 | 950 | 3463 |
| ANO | 53 | 156 | 139 |
| <u>Total</u> | <u>3294</u> | <u>2368</u> | <u>9590</u> |



Discovery Cruise 107 Leg 3

Magtapes:-

Original copy
MGS copy
Archive copy

Total records - 12753
Bathymetry - 3131
Magnetics - 4629
Gravity - 7857

P.S.O. - whitmarsh

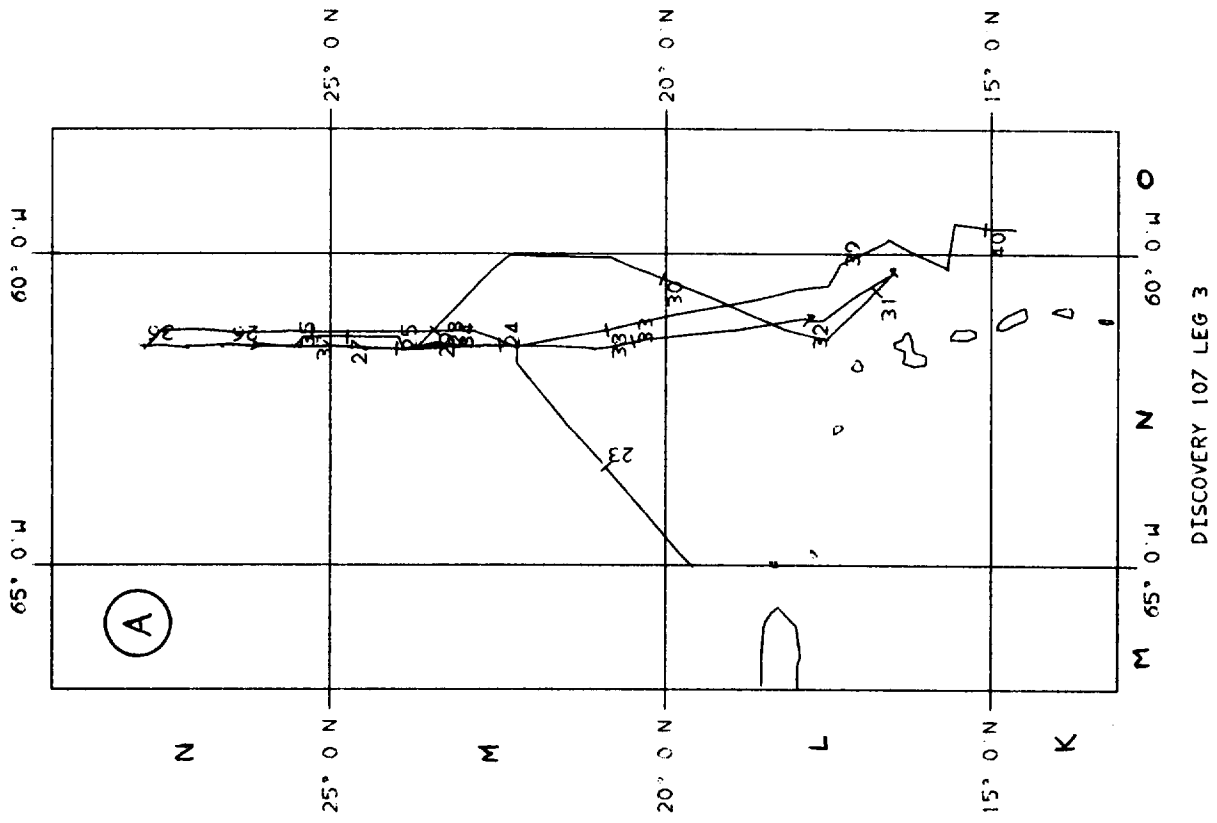
Start Port - Puerto Rico
End Port - Barbados

Data Starts - 1149z 22-Jan-80
Data Ends - 0448z 09-Jan-80

Latitude minimum - 14.0N
Latitude maximum - 27.8N
Longitude minimum - 65.1W
Longitude maximum - 59.5W

Distribution of data for Discovery Cruise 107 Leg 3:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| AML | 0 | 0 | 4 |
| ANL | 855 | 1537 | 1440 |
| ANM | 1562 | 2523 | 4175 |
| ANN | 593 | 569 | 1705 |
| AOK | 30 | 0 | 104 |
| AOL | 141 | 0 | 429 |
| ----- Total | ----- 3131 | ----- 4629 | ----- 7857 |



Discovery Cruise 109 Leg 1

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 10022
Bathymetry - 2745
Magnetics - 0
Gravity - 9355

P.S.O. - Stride

Start Port - Puerto Rico
End Port - Barbados

Data Starts - 0416z 11-Mar-80
Data Ends - 0210z 25-Mar-80

Latitude minimum - 11.1N
Latitude maximum - 20.0N
Longitude minimum - 64.7W
Longitude maximum - 57.4W

Distribution of data for Discovery Cruise 109 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|------------|---------------|
| ANL | 553 | 0 | 2396 |
| AOK | 1767 | 0 | 5808 |
| AOL | 420 | 0 | 1651 |
| ----- Total | ----- 2745 | ----- 0 | ----- 9855 |

Discovery Cruise 109 Leg 2

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 14192
Bathymetry - 4635
Magnetics - 0
Gravity - 14051

P.S.O. - Stride

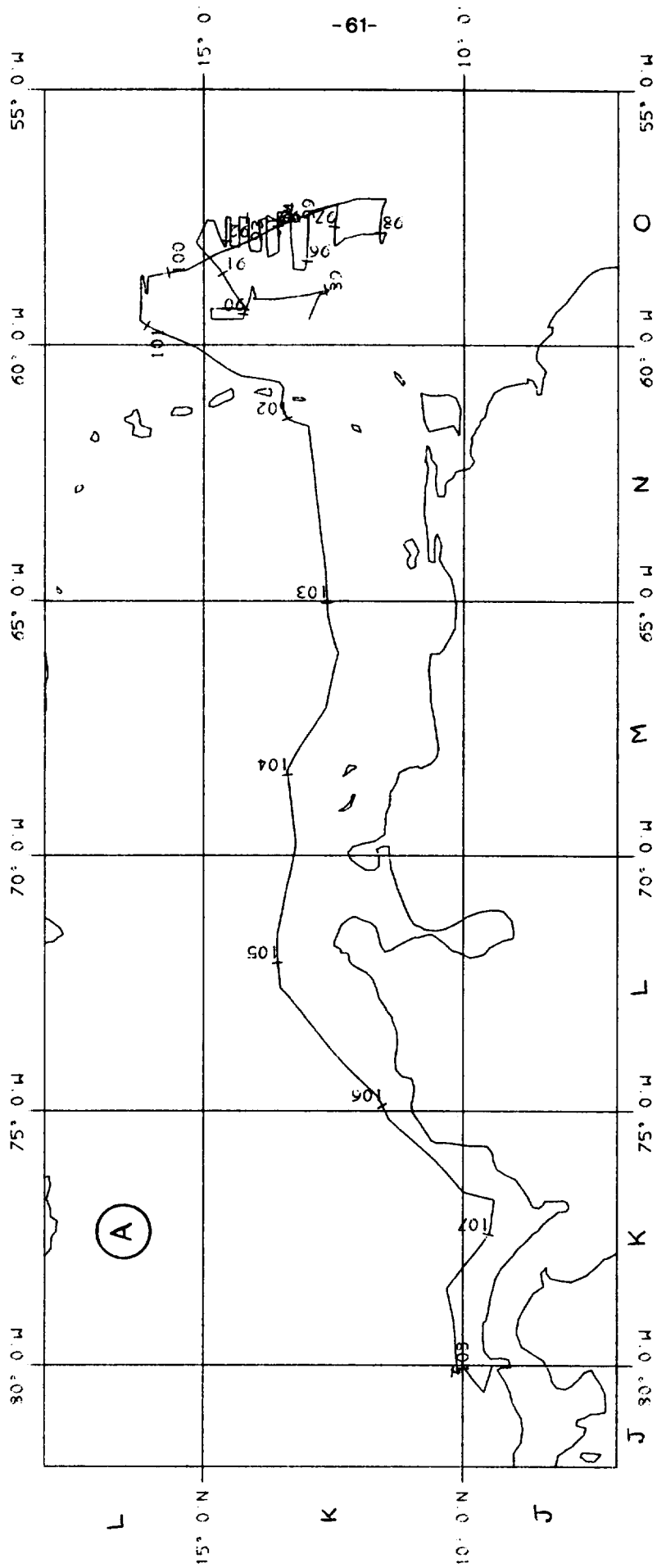
Start Port - Barbados
End Port - Panama

Data Starts - 1742z 23-Mar-80
Data Ends - 1022z 17-Apr-80

Latitude minimum - 9.3N
Latitude maximum - 15.3N
Longitude minimum - 80.6W
Longitude maximum - 57.2W

Distribution of data for Discovery Cruise 109 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|------------|----------------|
| AJJ | 74 | 0 | 225 |
| AJK | 65 | 0 | 226 |
| AKJ | 143 | 0 | 427 |
| AKK | 230 | 0 | 838 |
| ALK | 393 | 0 | 1175 |
| AMK | 333 | 0 | 999 |
| ANK | 401 | 0 | 1203 |
| ANL | 19 | 0 | 57 |
| AOK | 2544 | 0 | 7641 |
| AOL | 429 | 0 | 1271 |
| ----- Total | ----- 4636 | ----- 0 | ----- 14052 |



DISCOVERY 109 LEG 2

Discovery Cruise 110 Leg 1

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 19529
Bathymetry - 13963
Magnetics - 16057
Gravity - 18597

P.S.O. - Searle

Start Port - Panama

End Port - Lima

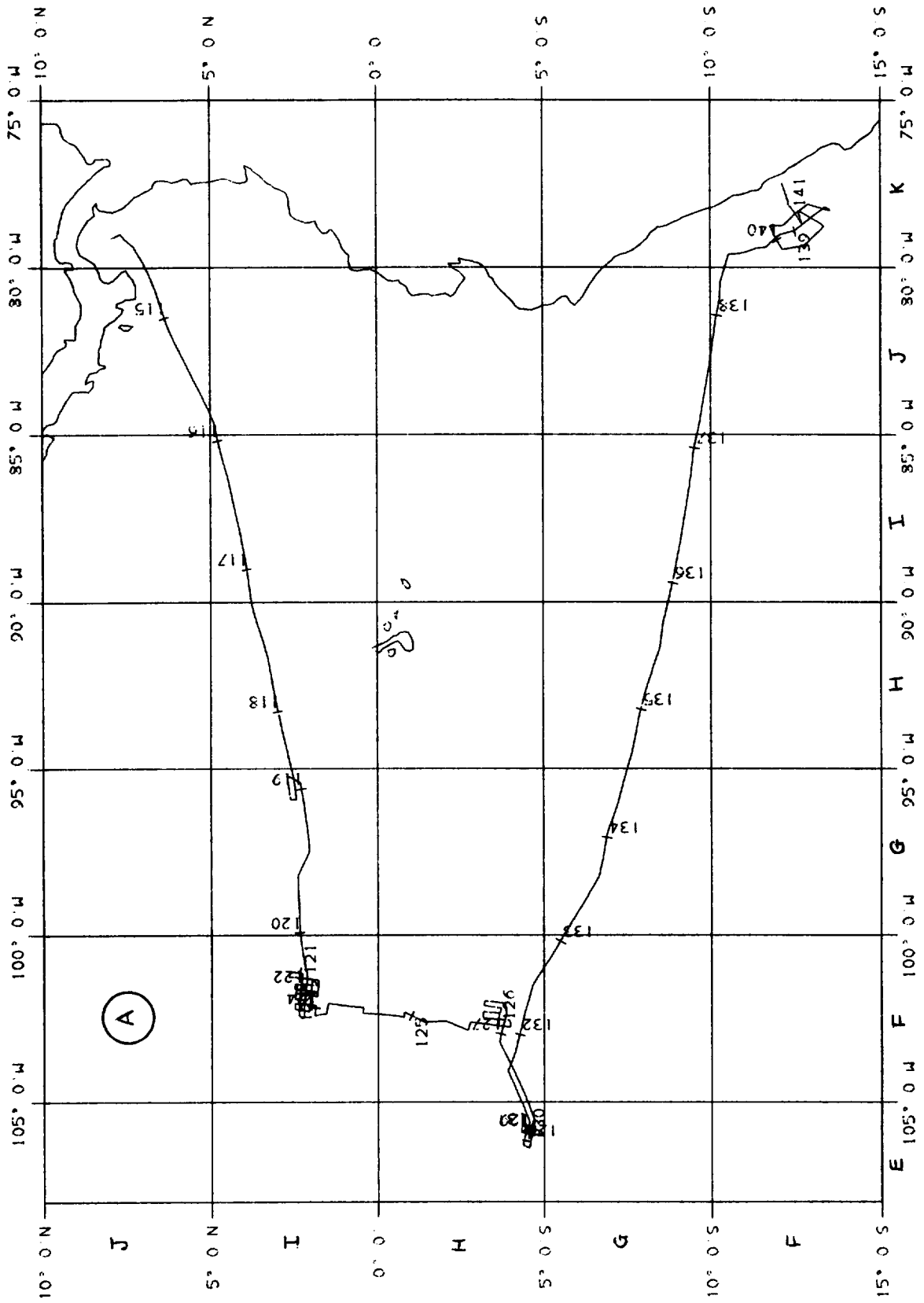
Data Starts - 0527z 23-Apr-60

Data Ends - 0742z 20-May-60

Latitude minimum - 13.6S
Latitude maximum - 8.0N
Longitude minimum - 106.4W
Longitude maximum - 77.5W

Distribution of data for Discovery Cruise 110 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|-------|-------|-------|
| AEH | 2164 | 1718 | 2680 |
| AFG | 260 | 259 | 257 |
| AFH | 3013 | 3040 | 3025 |
| AFI | 2467 | 2556 | 3060 |
| AGG | 418 | 1000 | 723 |
| AGI | 791 | 1132 | 1178 |
| AHG | 313 | 940 | 943 |
| AHI | 344 | 0 | 754 |
| AII | 307 | 731 | 915 |
| AJF | 490 | 496 | 493 |
| AJG | 294 | 405 | 403 |
| AJI | 40 | 115 | 118 |
| AJJ | 280 | 647 | 830 |
| AKF | 1849 | 2129 | 2071 |
| AKJ | 70 | 0 | 269 |
| Total | 13963 | 16057 | 18597 |



DISCOVERY 110 LFC 1

Discovery Cruise 110 Leg 2

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 18431
Bathymetry - 12709
Magnetics - 11326
Gravity - 14245

P.S.O. - Searle

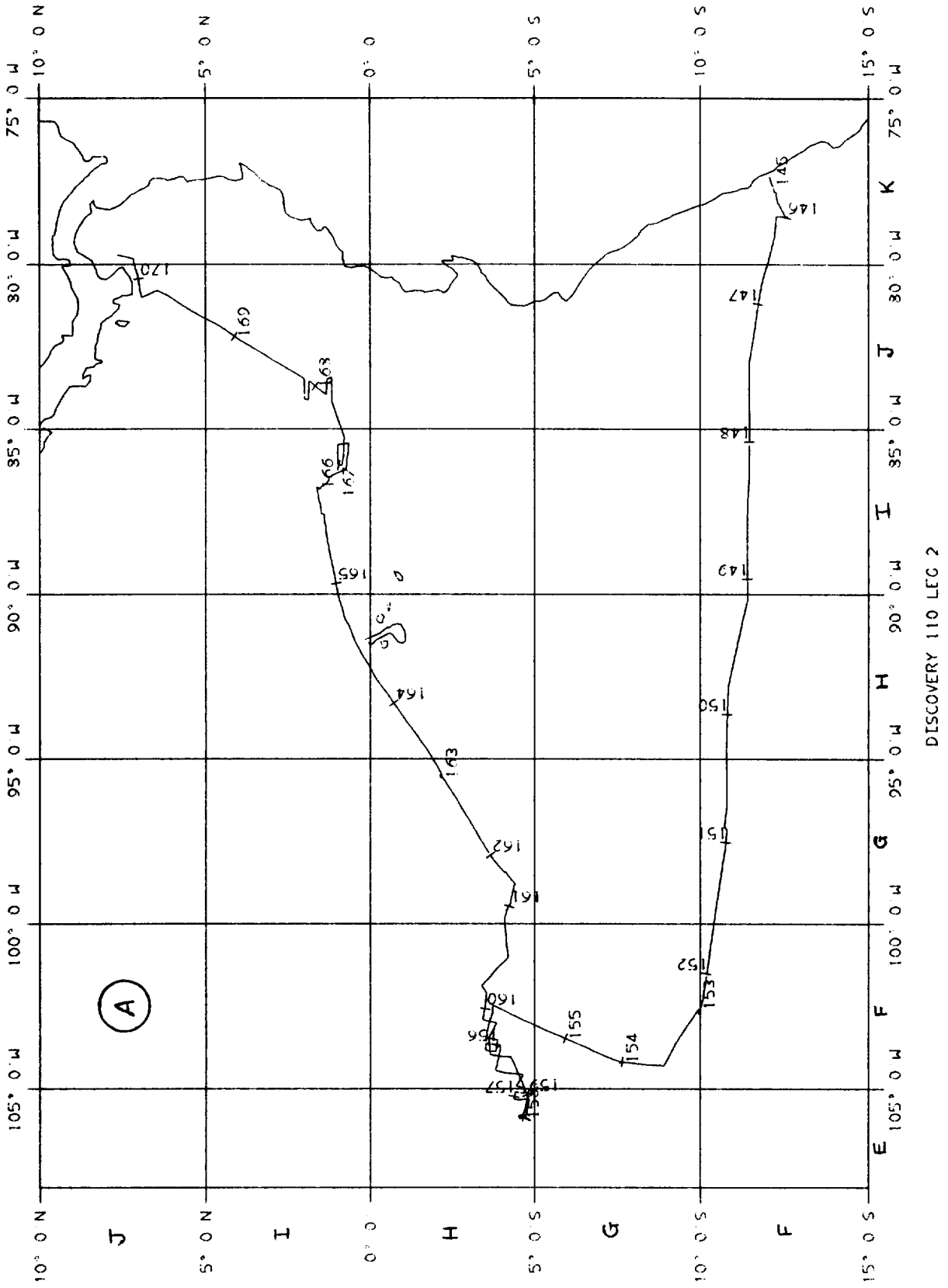
Start Port - Lima
End Port - Panama

Data Starts - 1932z 23-May-80
Data Ends - 0808z 18-Jun-80

Latitude minimum - 12.7S
Latitude maximum - 7.7N
Longitude minimum - 106.0W
Longitude maximum - 77.3W

Distribution of data for Discovery Cruise 110 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|--------------|--------------|--------------|
| AEH | 687 | 432 | 1531 |
| AFF | 446 | 456 | 397 |
| AFG | 1128 | 1093 | 1969 |
| AFH | 2422 | 2379 | 2402 |
| AGF | 909 | 791 | 662 |
| AGH | 1142 | 795 | 1455 |
| AHF | 876 | 863 | 653 |
| AIF | 865 | 661 | 831 |
| AII | 754 | 700 | 752 |
| AJF | 865 | 864 | 603 |
| AJI | 1333 | 1292 | 1377 |
| AJJ | 600 | 403 | 634 |
| AKF | 650 | 355 | 931 |
| AKJ | 26 | 42 | 48 |
| <u>Total</u> | <u>12709</u> | <u>11326</u> | <u>14245</u> |



Discovery Cruise 111 Leg 1

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 7647
Bathymetry - 1505
Magnetics - 4887
Gravity - 3017

P.S.O. - Kidd

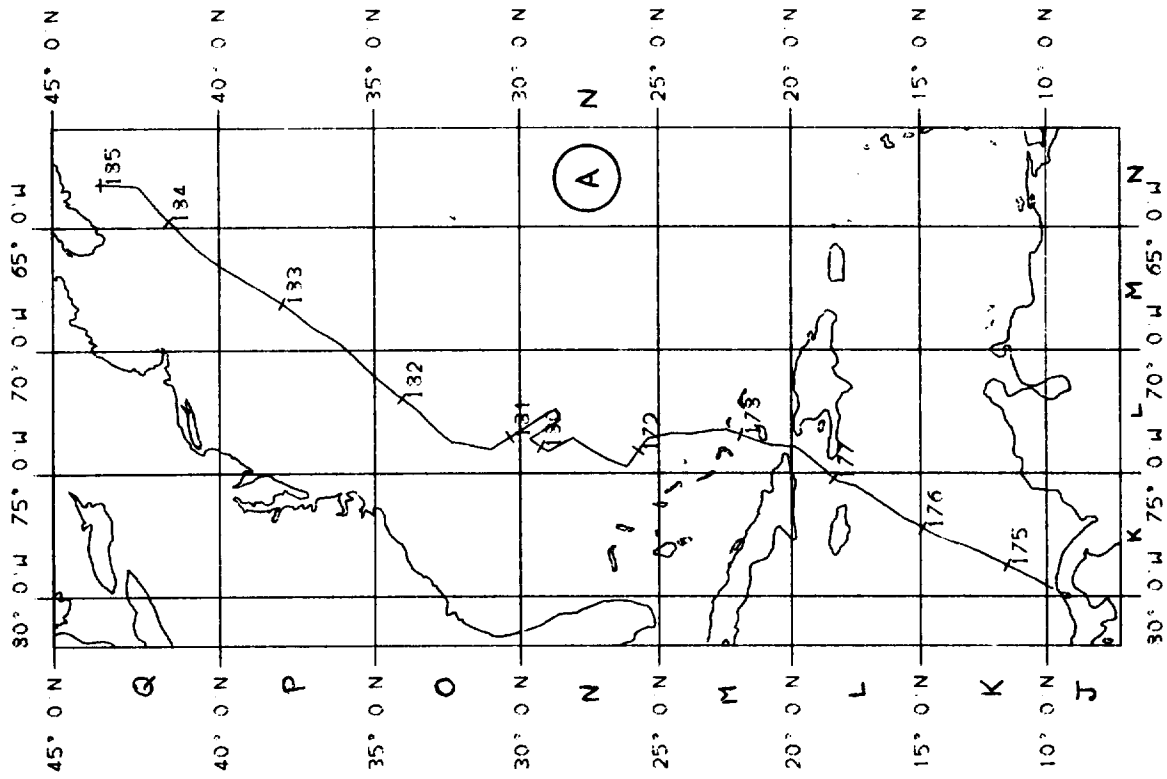
Start Port - Panama
End Port - Halifax

Data Starts - 1044z 22-Jun-80
Data Ends - 0130z 03-Jul-80

Latitude minimum - 9.7N
Latitude maximum - 43.8N
Longitude minimum - 79.3W
Longitude maximum - 63.2W

Distribution of data for Discovery Cruise 111 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| AKJ | 0 | 44 | 0 |
| AKK | 0 | 386 | 339 |
| AKL | 0 | 0 | 758 |
| ALL | 0 | 0 | 324 |
| ALM | 55 | 163 | 454 |
| ALN | 510 | 1525 | 68 |
| ALO | 323 | 927 | 923 |
| ALP | 62 | 184 | 151 |
| AMP | 233 | 684 | 0 |
| AMQ | 116 | 343 | 0 |
| ANQ | 200 | 631 | 0 |
| ----- Total | ----- 1505 | ----- 4887 | ----- 3017 |



DISCOVERY 111 LEG 1

Discovery Cruise 111 Leg 2

Magtapes:-

Original copy

MGG copy
Archive copy

Total records - 15262
Bathymetry - 4176
Magnetics - 2613
Gravity - 13173

P.S.O. - Roberts

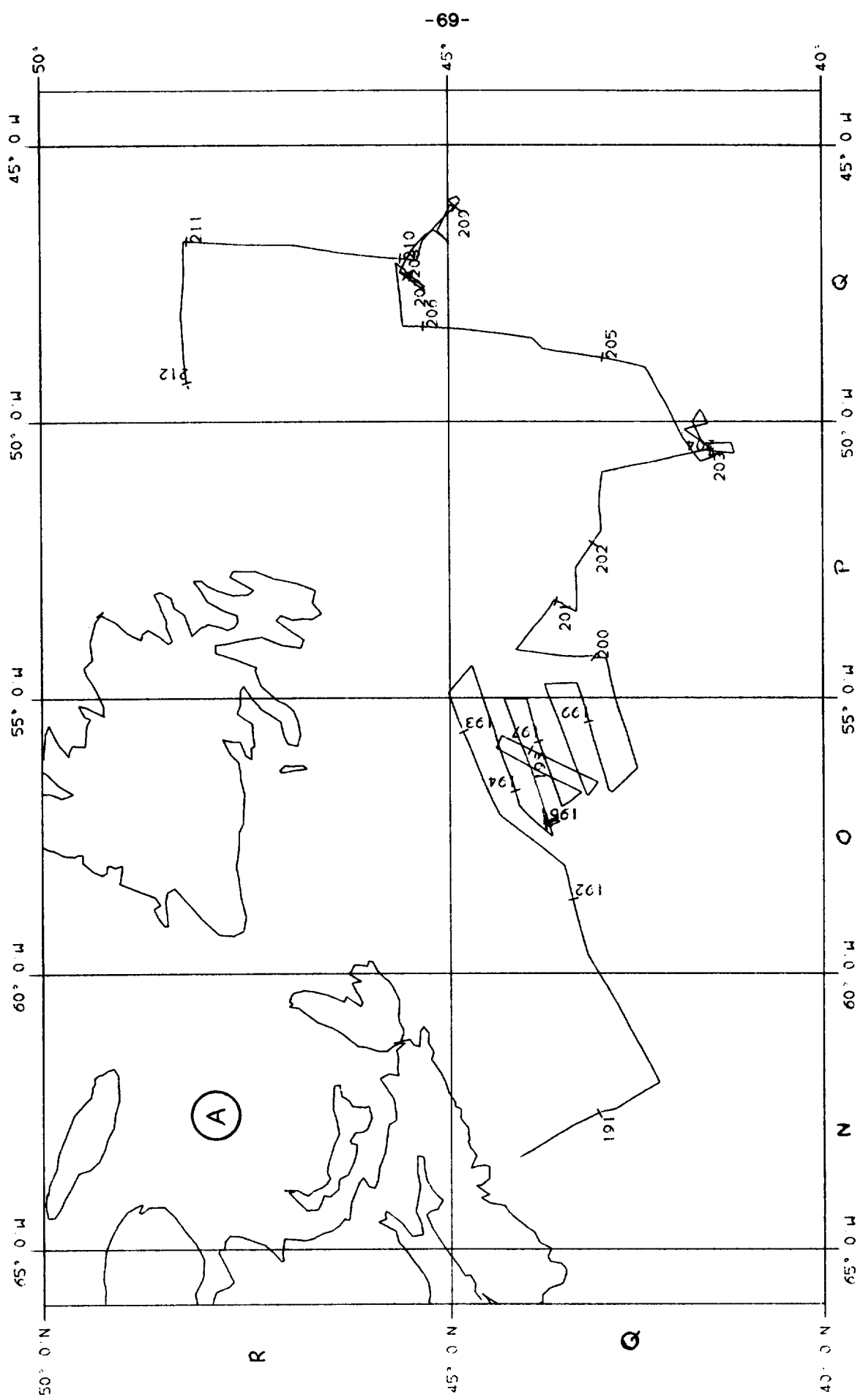
Start Port - Halifax
End Port - St. Johns

Data Starts - 1612z 08-Jul-80
Data Ends - 0048z 30-Jul-80

Latitude minimum - 41.2N
Latitude maximum - 48.4N
Longitude minimum - 63.4W
Longitude maximum - 45.9W

Distribution of data for Discovery Cruise 111 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|----------------|
| ANQ | 240 | 0 | 500 |
| AQZ | 1493 | 1024 | 4533 |
| APQ | 1090 | 1375 | 2639 |
| APR | 5 | 16 | 16 |
| AQQ | 451 | 193 | 1586 |
| AQR | 892 | 0 | 3899 |
| ----- Total | ----- 4176 | ----- 2613 | ----- 13173 |



DISCOVERY 111 LEG 2

(A)

R

Q

Q

P

O

N

50° 0' N 65° 0' W 60° 0' W 55° 0' W 50° 0' W 45° 0' W 40° 0' N 45° 0' N 50° 0' N

65° 0' W 60° 0' W 55° 0' W 50° 0' W 45° 0' W

65° 0' W 60° 0' W 55° 0' W 50° 0' W 45° 0' W

Discovery Cruise 118 Leg 1

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 15557
Bathymetry - 3276
Magnetics - 8368
Gravity - 14731

P.S.O. - Francis

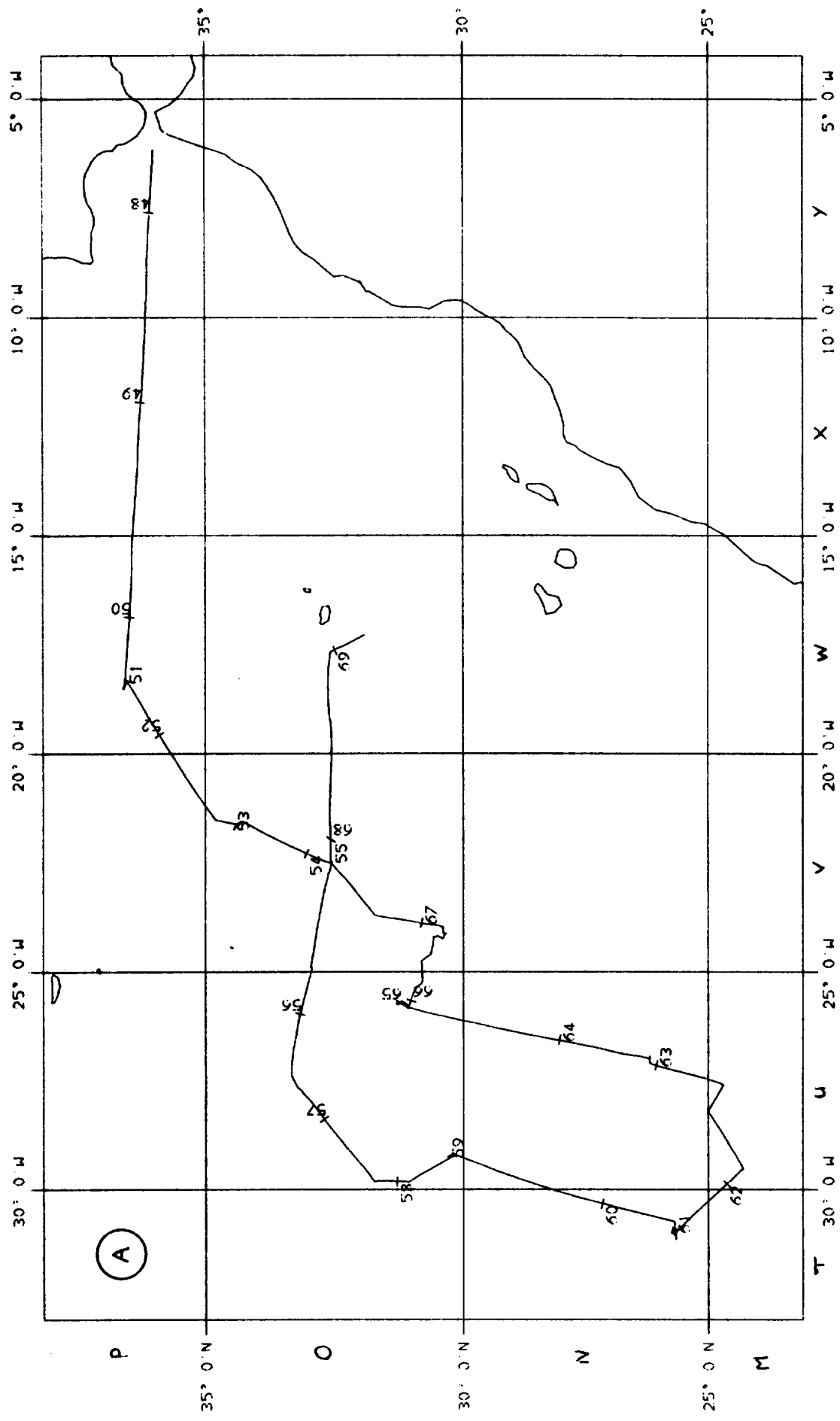
Start Port - Gibraltar
End Port - Madeira

Data Starts - 1412z 16-Feb-81
Data Ends - 0323z 10-Mar-81

Latitude minimum - 24.2N
Latitude maximum - 36.6N
Longitude minimum - 31.2W
Longitude maximum - 5.4W

Distribution of data for Discovery Cruise 118 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|----------------|
| ATM | 22 | 62 | 65 |
| ATN | 324 | 760 | 1511 |
| AUM | 180 | 545 | 544 |
| AUN | 417 | 1247 | 1551 |
| AUO | 740 | 2070 | 3650 |
| AVO | 692 | 1829 | 3664 |
| AVP | 64 | 208 | 208 |
| AWO | 121 | 362 | 470 |
| AWP | 232 | 327 | 1692 |
| AXP | 243 | 458 | 734 |
| AYP | 191 | 0 | 693 |
| ----- Total | ----- 3276 | ----- 8368 | ----- 14732 |



DISCOVERY 118 LEG 1

Discovery Cruise 118 Leg 2

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 11462
Bathymetry - 2950
Magnetics - 8290
Gravity - 11359

P.S.O. - Francis

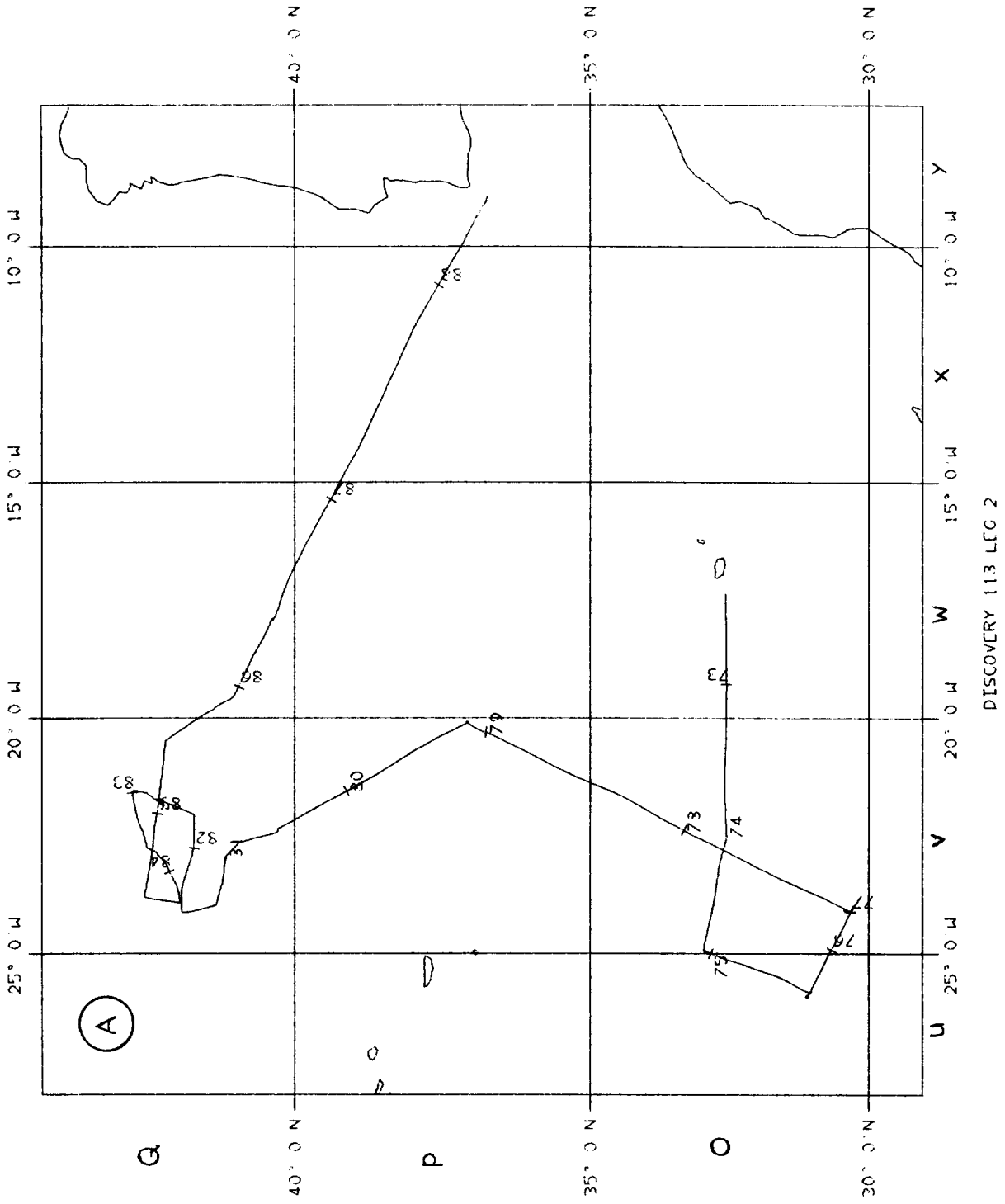
Start Port - Madeira
End Port - Gibraltar

Data Starts - 1312z 13-Mar-81
Data Ends - 1104z 29-Mar-81

Latitude minimum - 30.2N
Latitude maximum - 42.6N
Longitude minimum - 26.0W
Longitude maximum - 8.9W

Distribution of data for Discovery Cruise 118 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|----------------|
| AUO | 196 | 605 | 699 |
| AVO | 695 | 1970 | 3090 |
| AVP | 346 | 985 | 1283 |
| AVQ | 941 | 2404 | 3876 |
| AWO | 133 | 384 | 417 |
| AWP | 92 | 290 | 289 |
| AWQ | 222 | 705 | 723 |
| AXP | 265 | 793 | 793 |
| AYP | 54 | 153 | 189 |
| ----- Total | ----- 2950 | ----- 8290 | ----- 11359 |



Discovery Cruise 123 Leg 1

Magtapes:-

Original copy
MGS copy
Archive copy

Total records - 13183
Bathymetry - 4291
Magnetics - 0
Gravity - 0

P.S.O. - Wilson

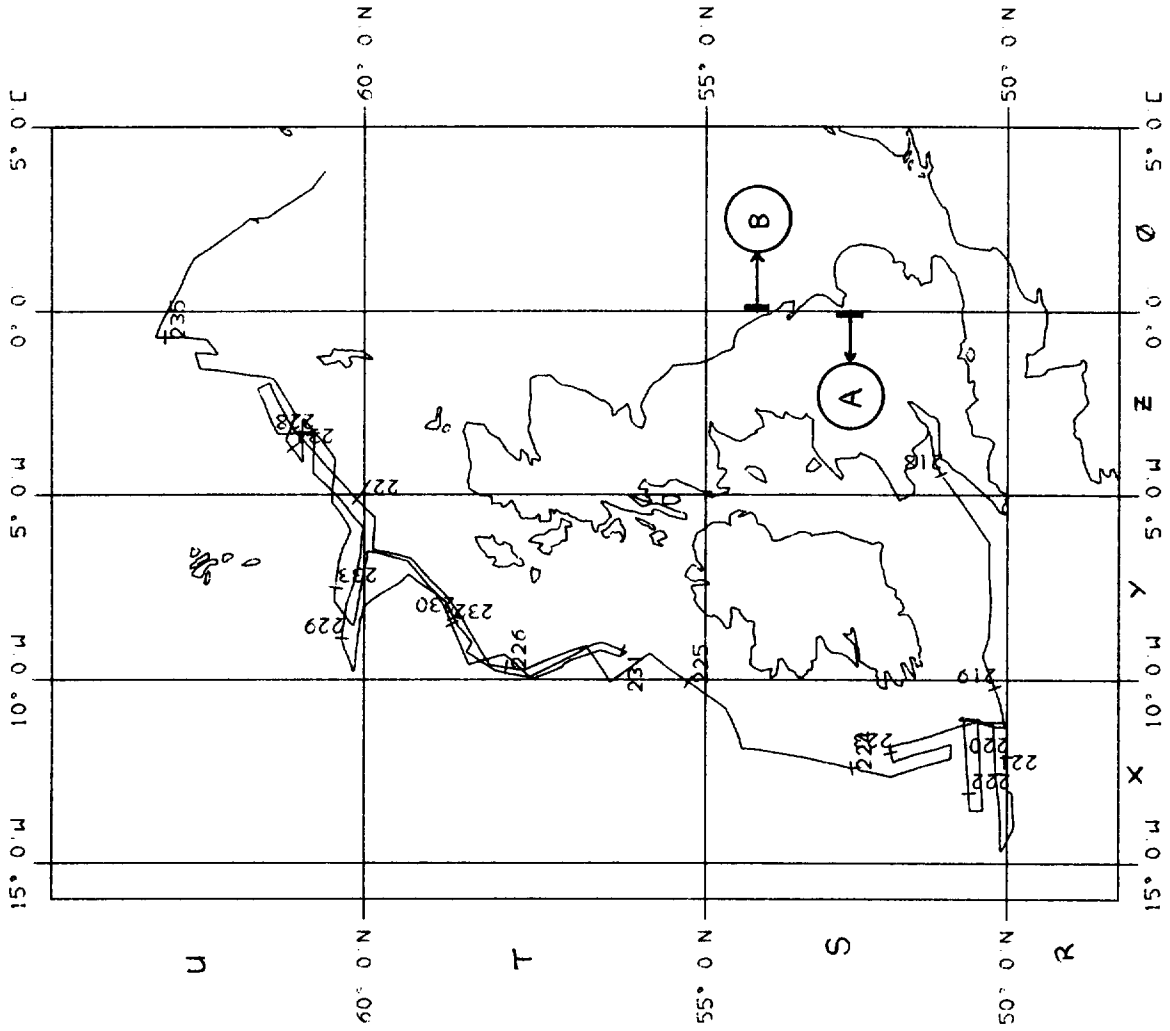
Start Port - Barry
End Port - Bergen

Data Starts - 1542z 05-Aug-81
Data Ends - 2244z 23-Aug-81

Latitude minimum - 49.8N
Latitude maximum - 62.8N
Longitude minimum - 14.7W
Longitude maximum - 3.7E

Distribution of data for Discovery Cruise 123 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|------------|------------|
| AXR | 84 | 0 | 0 |
| AXS | 1310 | 0 | 0 |
| AXT | 40 | 0 | 0 |
| AYS | 192 | 0 | 0 |
| AYT | 1203 | 0 | 0 |
| AYU | 433 | 0 | 0 |
| AZS | 79 | 0 | 0 |
| AZU | 723 | 0 | 0 |
| BOU | 172 | 0 | 0 |
| ----- Total | ----- 4291 | ----- 0 | ----- 0 |



DISCOVERY 123 LCG 1

Discovery Cruise 123 Leg 2

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 3903
Bathymetry - 2553
Magnetics - 0
Gravity - 0

P.S.O. - wilson

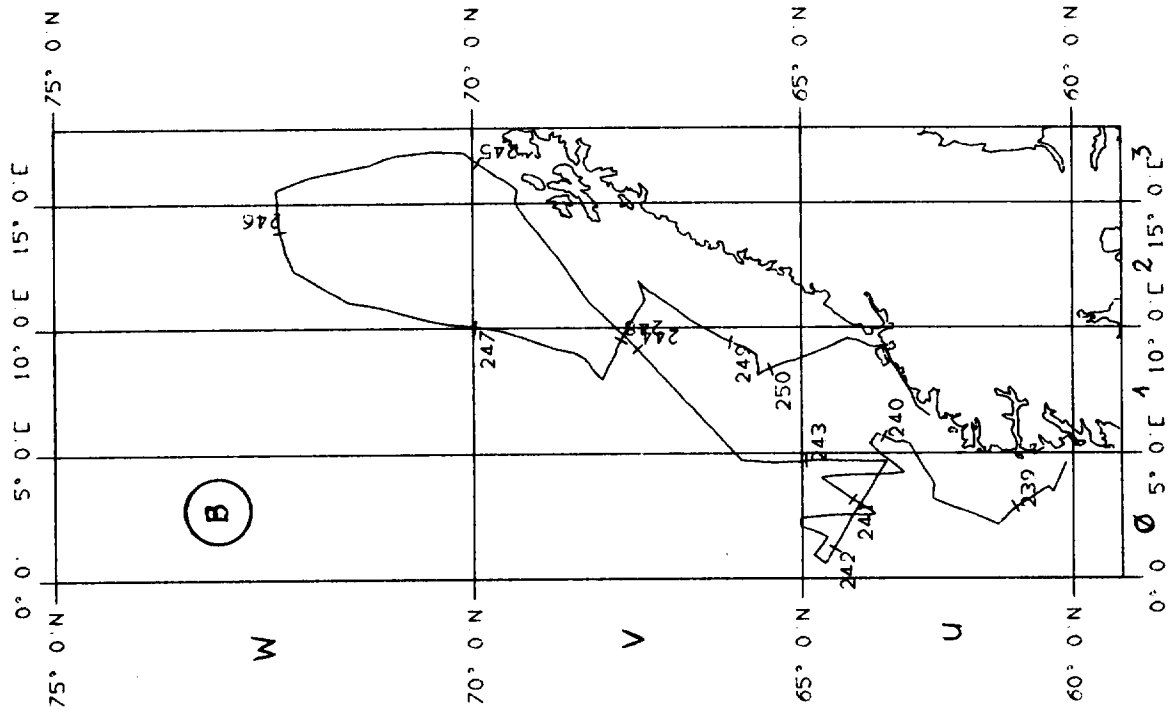
Start Port - Bergen
End Port - Immingham

Data Starts - 1136z 26-Aug-81
Data Ends - 1952z 07-Sep-81

Latitude minimum - 60.1N
Latitude maximum - 73.0N
Longitude minimum - 0.5E
Longitude maximum - 16.8E

Distribution of data for Discovery Cruise 123 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|------------|------------|
| 80U | 985 | 0 | 0 |
| 80V | 97 | 0 | 0 |
| 81U | 91 | 0 | 0 |
| 81V | 514 | 0 | 0 |
| 82V | 333 | 0 | 0 |
| 82W | 281 | 0 | 0 |
| 83V | 60 | 0 | 0 |
| 83W | 192 | 0 | 0 |
| ----- Total | ----- 2553 | ----- 0 | ----- 0 |



DISCOVERY 123 LEC 2

Discovery Cruise 131 Leg 1

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 13653
Bathymetry - 3633
Magnetics - 7138
Gravity - 2874

P.S.O. - Whitmarsh

Start Port - Gibraltar

End Port - St. Johns

Data Starts - 1721z 12-Aug-82

Data Ends - 1830z 31-Aug-82

Latitude minimum - 35.8N

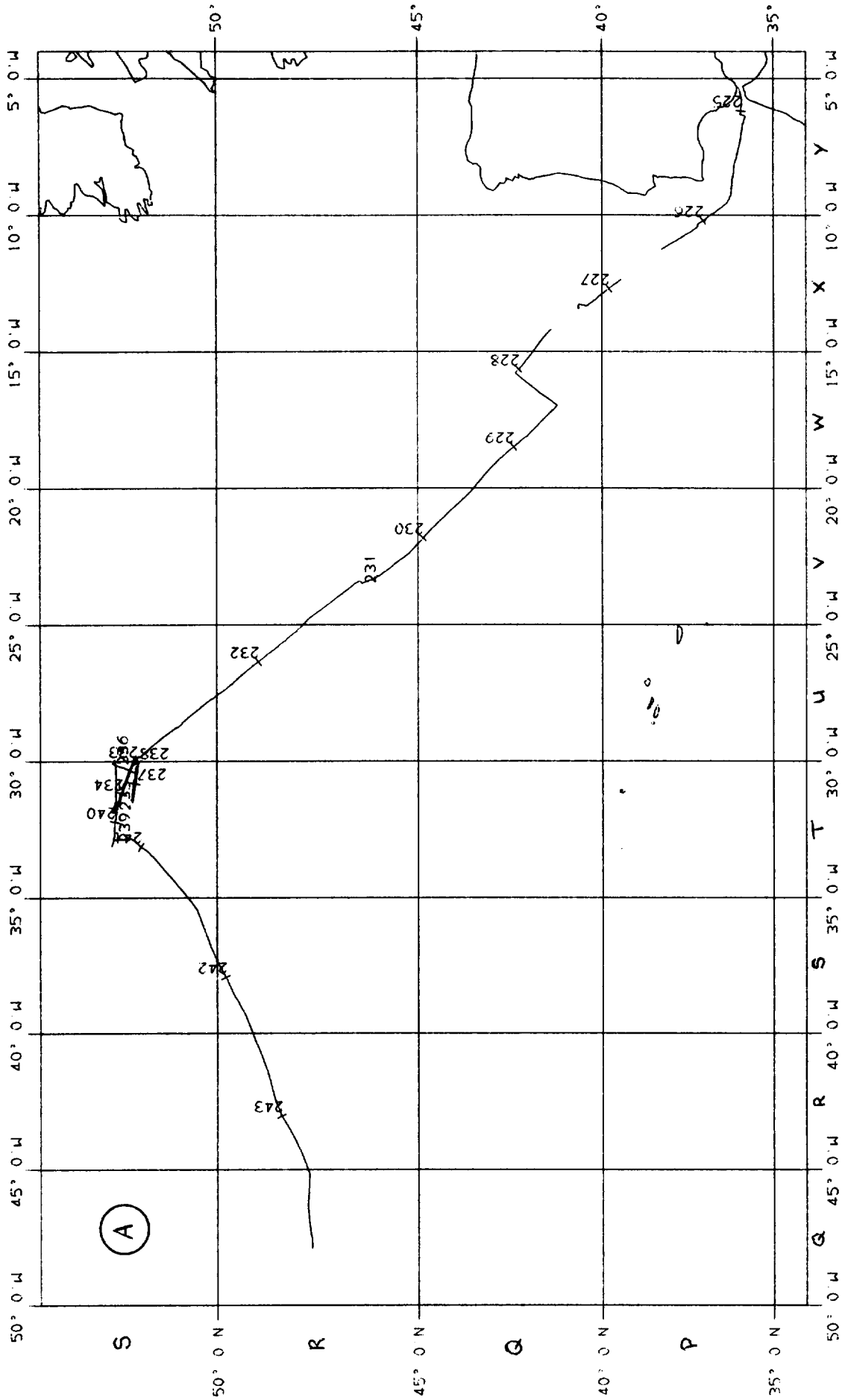
Latitude maximum - 52.7N

Longitude minimum - 48.0W

Longitude maximum - 5.3W

Distribution of data for Discovery Cruise 131 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| AQR | 95 | 291 | 291 |
| AKR | 209 | 628 | 585 |
| ASR | 133 | 390 | 388 |
| ASS | 89 | 248 | 260 |
| ATS | 1495 | 936 | 4637 |
| AUR | 151 | 447 | 181 |
| AUS | 250 | 528 | 636 |
| AVR | 240 | 357 | 632 |
| AVQ | 142 | 402 | 50 |
| AWQ | 396 | 1183 | 1101 |
| AXP | 80 | 171 | 398 |
| AXQ | 68 | 285 | 184 |
| AYP | 197 | 0 | 143 |
| ----- Total | ----- 3535 | ----- 5866 | ----- 9536 |



DISCOVERY 131 LEG 1

Discovery Cruise 131 Leg 2

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 1770
Bathymetry - 387
Magnetics - 1437
Gravity - 1208

P.S.O. - whitmarsh

Start Port - St. Johns

End Port - Falmouth

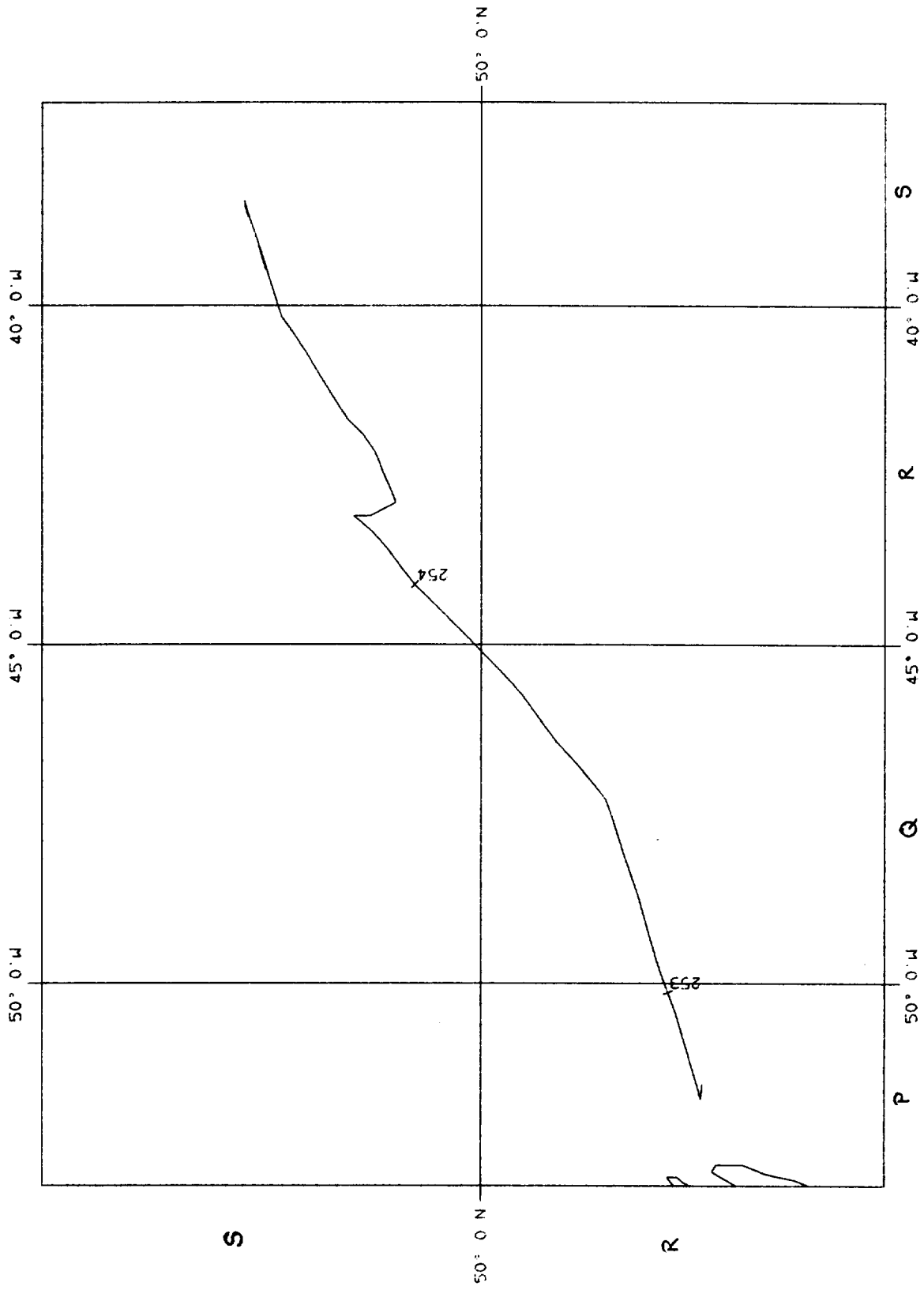
Data Starts - 1518z 09-Sep-82

Data Ends - 2333z 11-Sep-82

Latitude minimum - 46.4N
Latitude maximum - 52.3N
Longitude minimum - 51.3W
Longitude maximum - 38.4W

Distribution of data for Discovery Cruise 131 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|--------------|---------------|---------------|
| APR | 0 | 44 | 30 |
| AWR | 178 | 580 | 481 |
| AQS | 4 | 14 | 14 |
| ARS | 187 | 628 | 615 |
| ASS | 18 | 171 | 68 |
| ----- Total | ----- 387 | ----- 1437 | ----- 1208 |



DISCOVERY 131 LEC 2

Discovery Cruise 131 Leg 3

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 7495
Bathymetry - 2031
Magnetics - 2407
Gravity - 7365

P.S.O. - whitmarsh

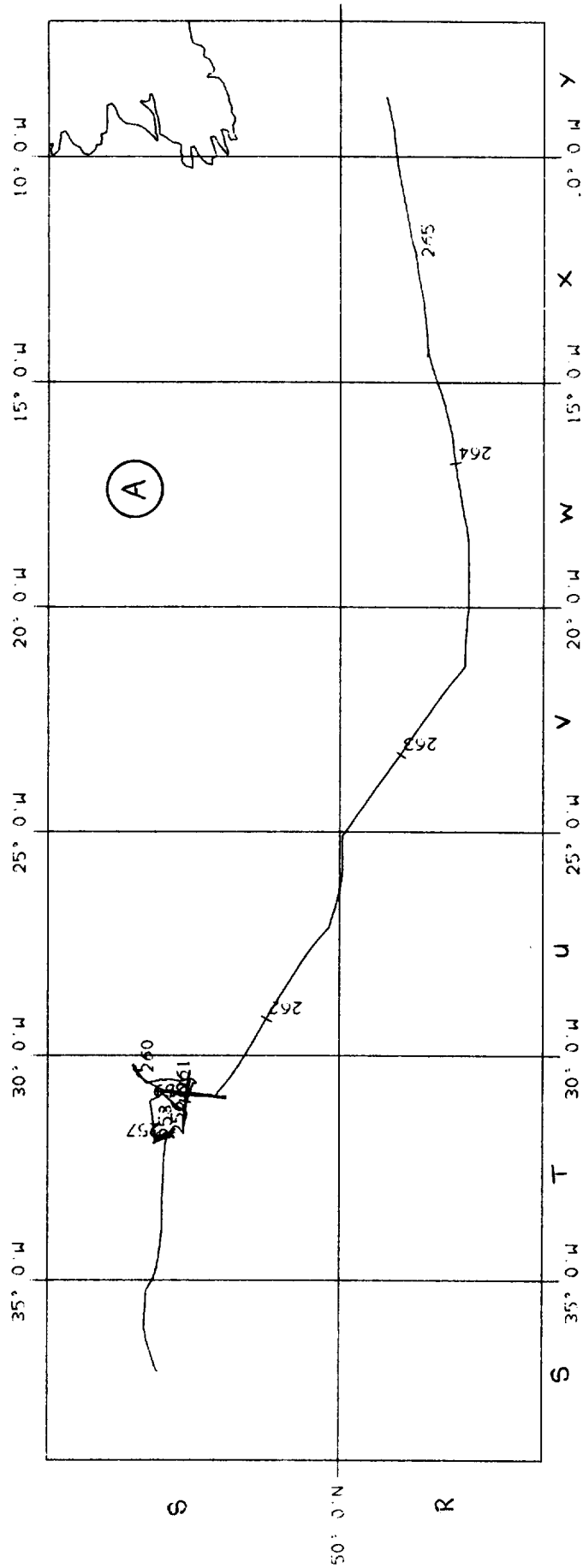
Start Port - St. Johns
End Port - Falmouth

Data Starts - 0338z 12-Sep-82
Data Ends - 1322z 22-Sep-82

Latitude minimum - 48.1N
Latitude maximum - 52.9N
Longitude minimum - 37.1W
Longitude maximum - 3.0W

Distribution of data for Discovery Cruise 131 Leg 3:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| ASS | 70 | 154 | 154 |
| ATS | 1138 | 440 | 4575 |
| AUR | 50 | 151 | 151 |
| AUS | 151 | 461 | 459 |
| AVR | 206 | 607 | 626 |
| AWR | 175 | 523 | 536 |
| AXR | 240 | 32 | 750 |
| AYR | 0 | 0 | 114 |
| ----- Total | ----- 2031 | ----- 2418 | ----- 7365 |



DISCOVERY 131 LEG 3

Discovery Cruise 134

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 17525
Batymetry - 2997
Magnetics - 6166
Gravity - 5938

P.S.O. - Francis

Start Port - Lisbon

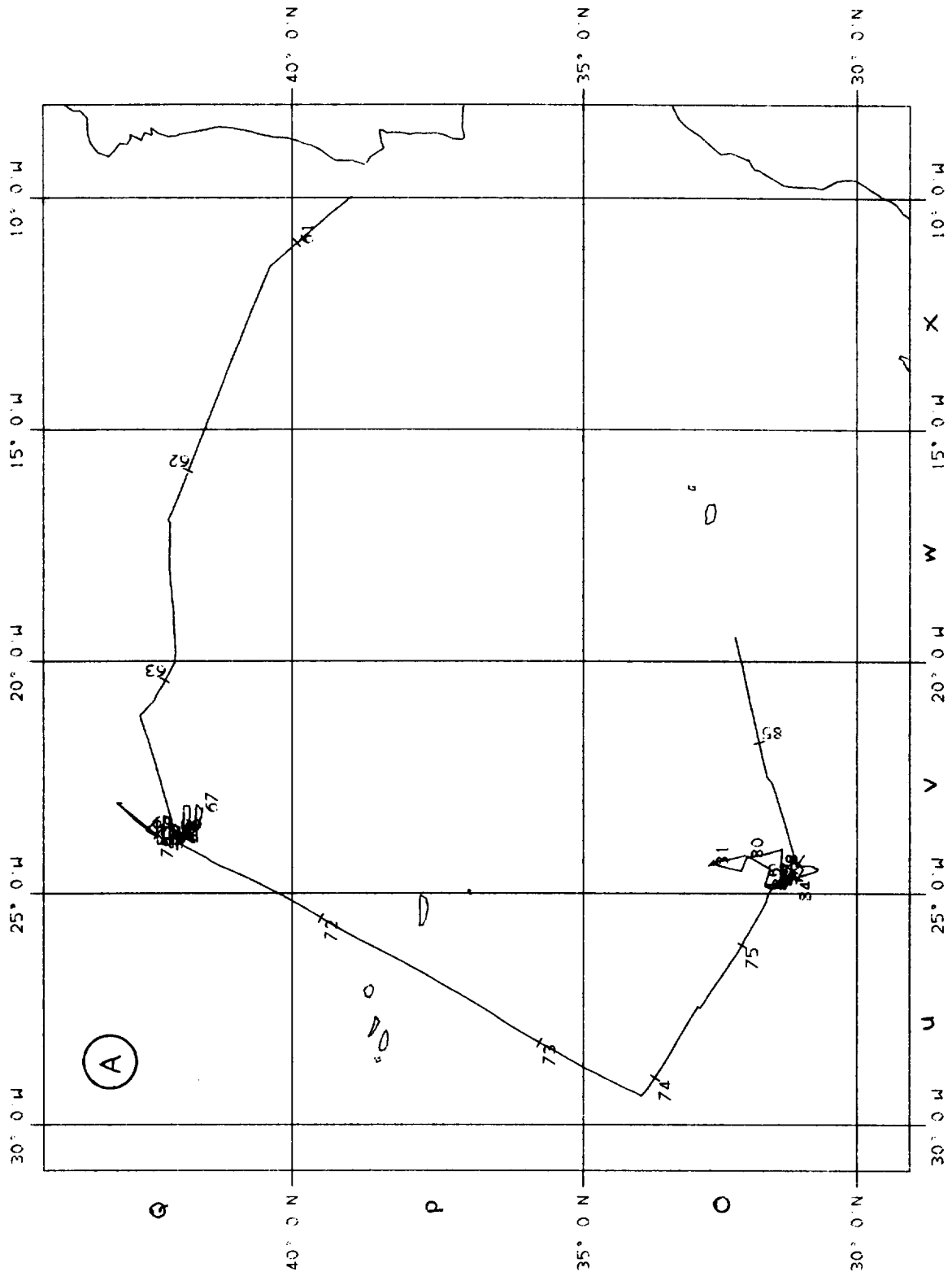
End Port - Azores

Data Starts - 1654z 01-Mar-83
Data Ends - 1104z 26-Mar-83

Latitude minimum - 30.7N
Latitude maximum - 42.9N
Longitude minimum - 29.3W
Longitude maximum - 9.9W

Distribution of data for Discovery Cruise 134:-

| Geographical Area Code | B | M | G |
|---------------------------|-------------|-------------|-------------|
| AUO | 345 | 967 | 1330 |
| AUP | 323 | 951 | 927 |
| AUQ | 16 | 50 | 44 |
| AVO | 366 | 672 | 729 |
| AVQ | 917 | 1953 | 1335 |
| AWO | 23 | 75 | 83 |
| AWQ | 235 | 704 | 690 |
| AXP | 75 | 220 | 219 |
| AXQ | 192 | 567 | 574 |
| AYP | 2 | 8 | 8 |
| <u>Total</u> | <u>2031</u> | <u>2413</u> | <u>7365</u> |



DISCOVERY 134

Discovery Cruise 142

Magtapes:-

Original copy

MGG copy
Archive copy

Total records - 18446
Bathymetry - 12400
Magnetics - 13801
Gravity - 18005

P.S.O. - Searle

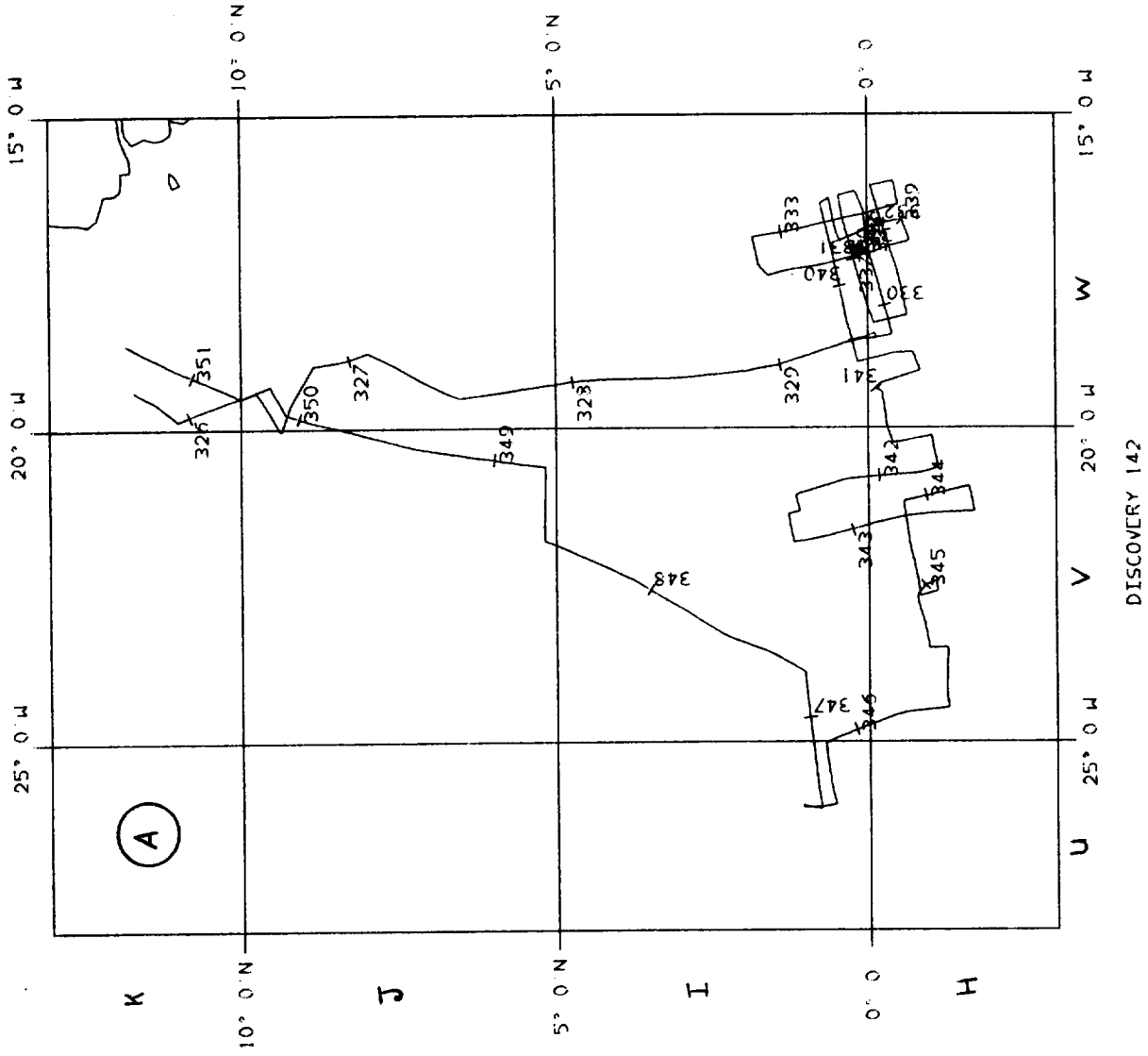
Start Port - Dakar
End Port - Dakar

Data Starts - 1600z 21-Nov-83
Data Ends - 0820z 17-Dec-83

Latitude minimum - 1.7S
Latitude maximum - 11.8N
Longitude minimum - 26.1W
Longitude maximum - 16.1W

Distribution of data for Discovery Cruise 142:-

| Geographical Area Code | B | M | G |
|---------------------------|-------|-------|-------|
| AUI | 551 | 551 | 550 |
| AVH | 2590 | 2476 | 2647 |
| AVI | 1920 | 1964 | 1958 |
| AVJ | 338 | 1007 | 1008 |
| AWH | 2349 | 2392 | 2486 |
| AWI | 4050 | 3733 | 6647 |
| AWJ | 532 | 1512 | 1702 |
| AWK | 70 | 161 | 1008 |
| ----- Total | 12400 | 13801 | 18005 |



Discovery Cruise 144

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 18334
Bathymetry - 3018
Magnetics - 5933
Gravity - 2541

P.S.O. - Schultheiss

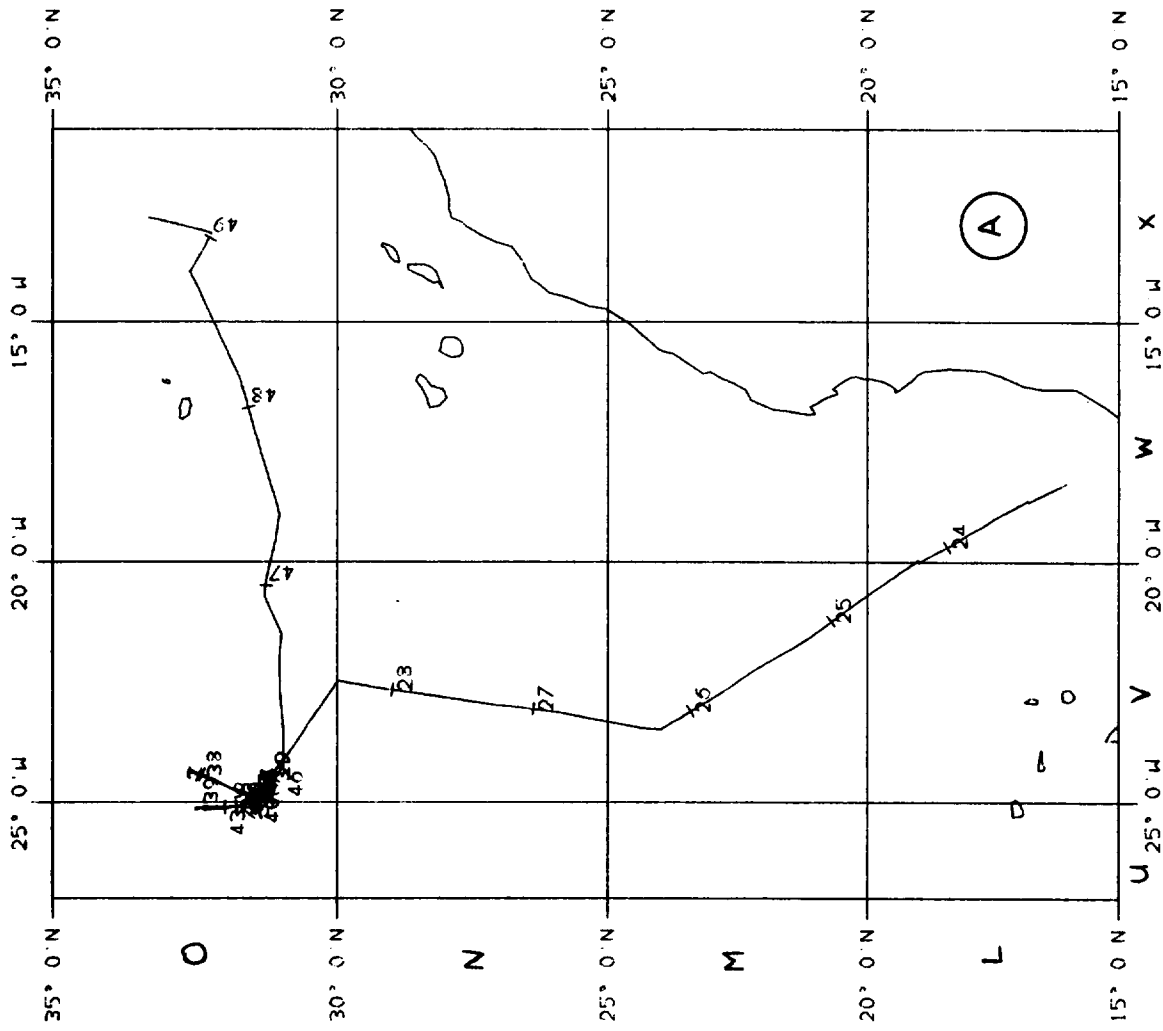
Start Port - Dakar
End Port - Gibraltar

Data Starts - 0250z 23-Jan-84
Data Ends - 0858z 13-Feb-84

Latitude minimum - 18.0N
Latitude maximum - 33.4N
Longitude minimum - 25.4W
Longitude maximum - 12.8W

Distribution of data for Discovery Cruise 144:-

| Geographical Area Code | b | M | G |
|---------------------------|---------------|---------------|---------------|
| AUO | 410 | 30 | 0 |
| AVL | 92 | 230 | 0 |
| AVM | 432 | 1292 | 0 |
| AVN | 434 | 1293 | 0 |
| AVO | 905 | 1479 | 931 |
| AWL | 207 | 0 | 0 |
| AWO | 327 | 978 | 981 |
| AXO | 210 | 531 | 629 |
| ----- Total | ----- 3017 | ----- 5933 | ----- 2541 |



DISCOVERY 144

Discovery Cruise 153

Magtapes:-

Original copy

MGG copy
Archive copy

Total records - 13532
Bathymetry - 3534
Magnetics - 6315
Gravity - none

P.S.O. - Searle

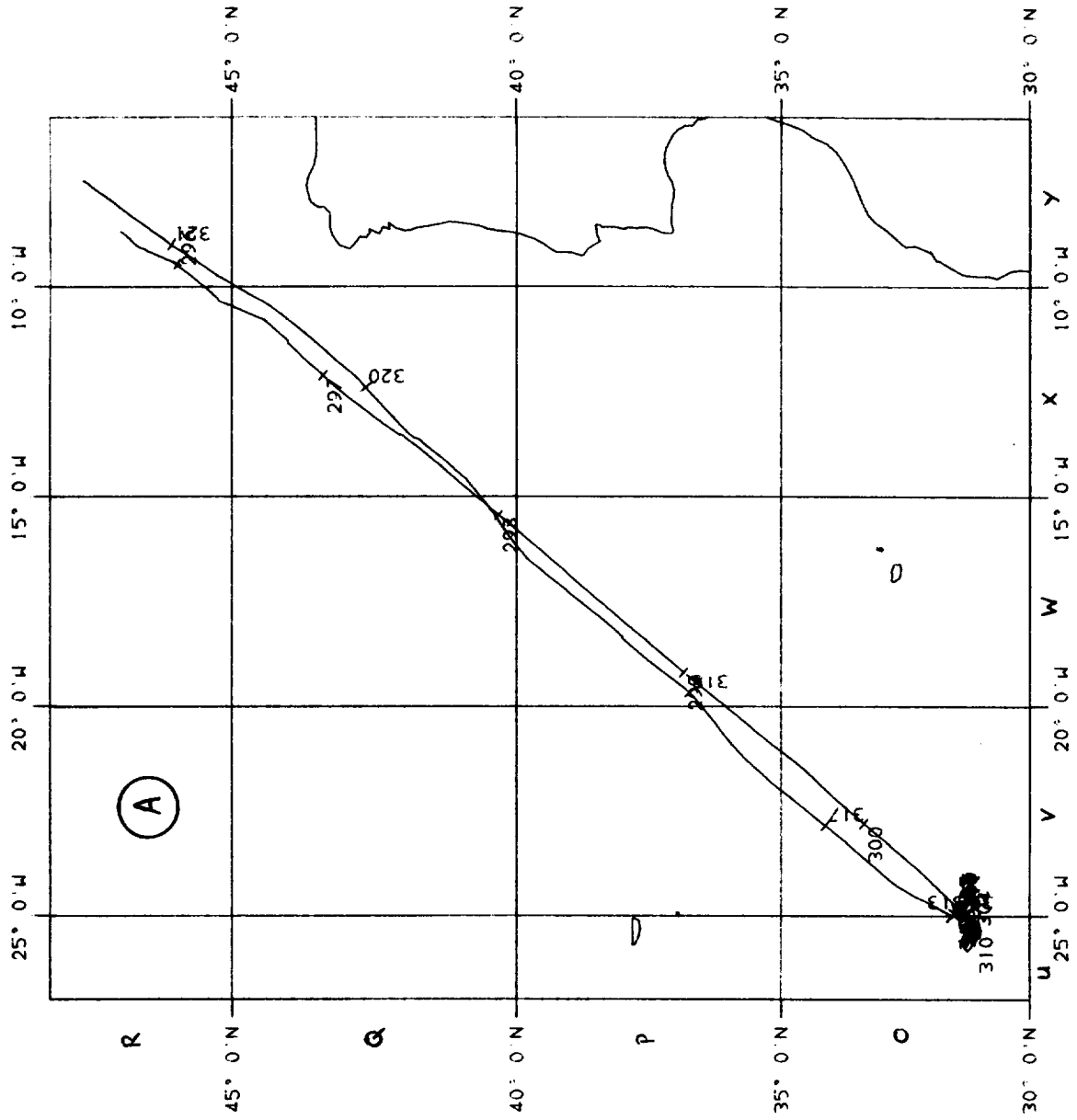
Start Port - Falmouth
End Port - Falmouth

Data Starts - 1430z 21-Oct-84
Data Ends - 1030z 16-Nov-84

Latitude minimum - 30.9N
Latitude maximum - 47.5N
Longitude minimum - 25.9W
Longitude maximum - 7.5W

Distribution of data for Discovery Cruise 153:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|------------|
| AUO | 655 | 814 | 0 |
| AVO | 1079 | 1482 | 0 |
| AVP | 221 | 669 | 0 |
| AWP | 515 | 1576 | 0 |
| AWQ | 112 | 343 | 0 |
| AXQ | 585 | 1063 | 0 |
| AXR | 36 | 104 | 0 |
| AYQ | 4 | 0 | 0 |
| AYR | 327 | 259 | 0 |
| ----- Total | ----- 3534 | ----- 6315 | ----- 0 |



DISCOVERY 153

Shackleton Cruise 3/75

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 6531
Bathymetry - 6061
Magnetics - 5913
Gravity - 6524

P.S.O. - Whitmarsh

Start Port - Djibouti

End Port - Dubai

Data Starts - 1000z 29-Mar-75

Data Ends - 1140z 07-Apr-75

Latitude minimum - 12.7N

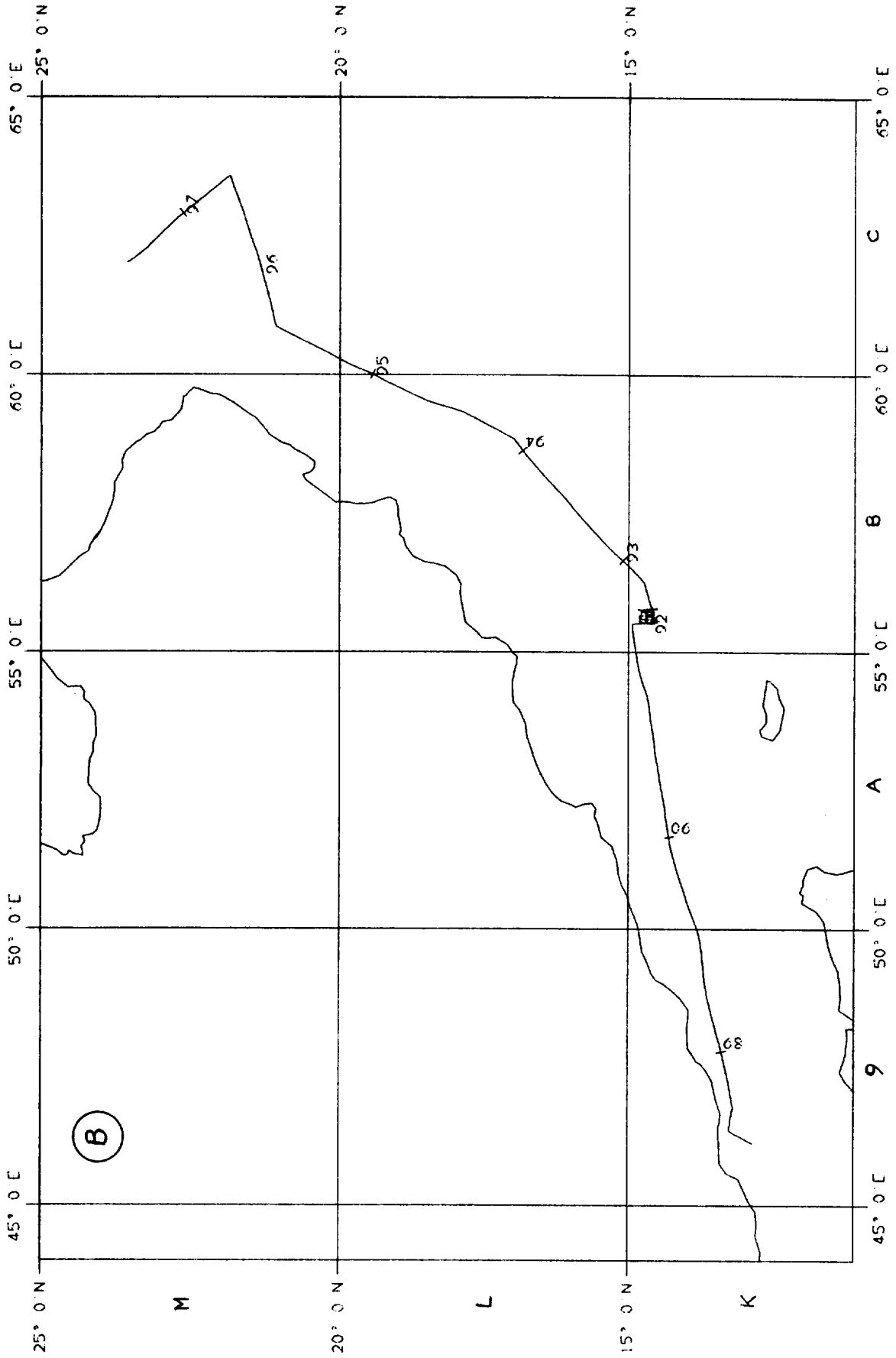
Latitude maximum - 23.6N

Longitude minimum - 46.0E

Longitude maximum - 63.6E

Distribution of data for Shackleton Cruise 3/75:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| B9K | 310 | 838 | 838 |
| BAK | 309 | 896 | 896 |
| BaK | 1254 | 957 | 1529 |
| B5L | 1437 | 1476 | 1476 |
| BCM | 1607 | 1602 | 1641 |
| BCL | 145 | 145 | 145 |
| ----- Total | ----- 6362 | ----- 5914 | ----- 6525 |



SHACKLETON 3/75

Shackleton Cruise 4/75

Magtapes:-

Original copy

MGG copy
Archive copy

Total records - 13529
Bathymetry - 11751
Magnetics - 10191
Gravity - 13386

P.S.O. - Whitmarsh

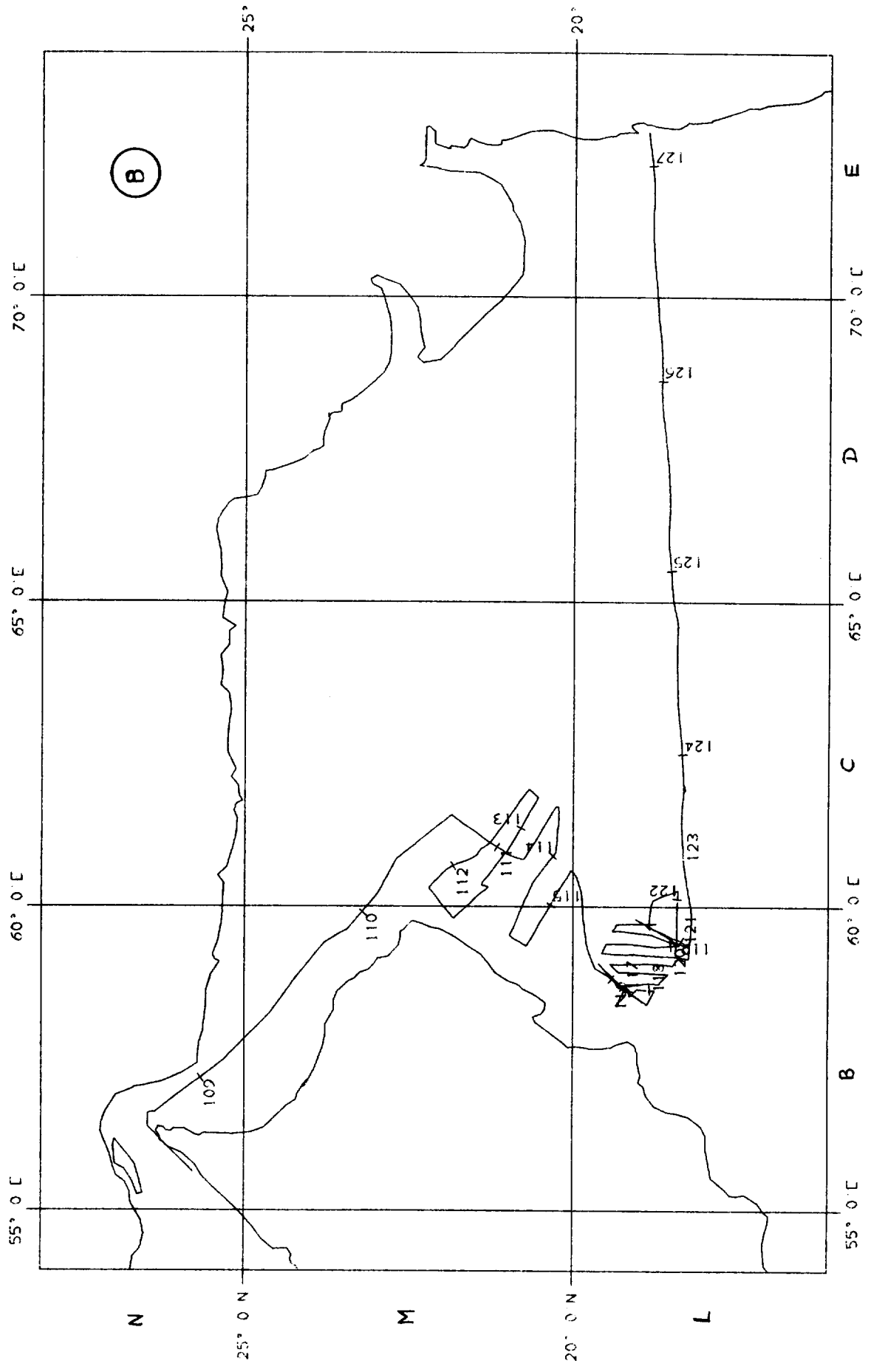
Start Port - Dubai
End Port - Bombay

Data Starts - 0954z 18-Apr-75
Data Ends - 0416z 07-May-75

Latitude minimum - 18.1N
Latitude maximum - 26.5N
Longitude minimum - 55.5E
Longitude maximum - 72.7E

Distribution of data for Shackleton Cruise 4/75:-

| Geographical Area Code | B | M | G |
|---------------------------|----------------|----------------|----------------|
| BBL | 4403 | 2940 | 4992 |
| BBM | 1123 | 1123 | 1123 |
| BBN | 100 | 106 | 591 |
| BCL | 1712 | 1651 | 1864 |
| BCM | 3192 | 3192 | 3105 |
| BOL | 1122 | 1122 | 1122 |
| BEL | 81 | 52 | 534 |
| ----- Total | ----- 11751 | ----- 10191 | ----- 13386 |



SHACKLETON 4/75

Shackleton Cruise 3/76 Leg 2

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 2395
Bathymetry - 2335
Magnetics - 1645
Gravity - 2335

P.S.O. - whitmarsn

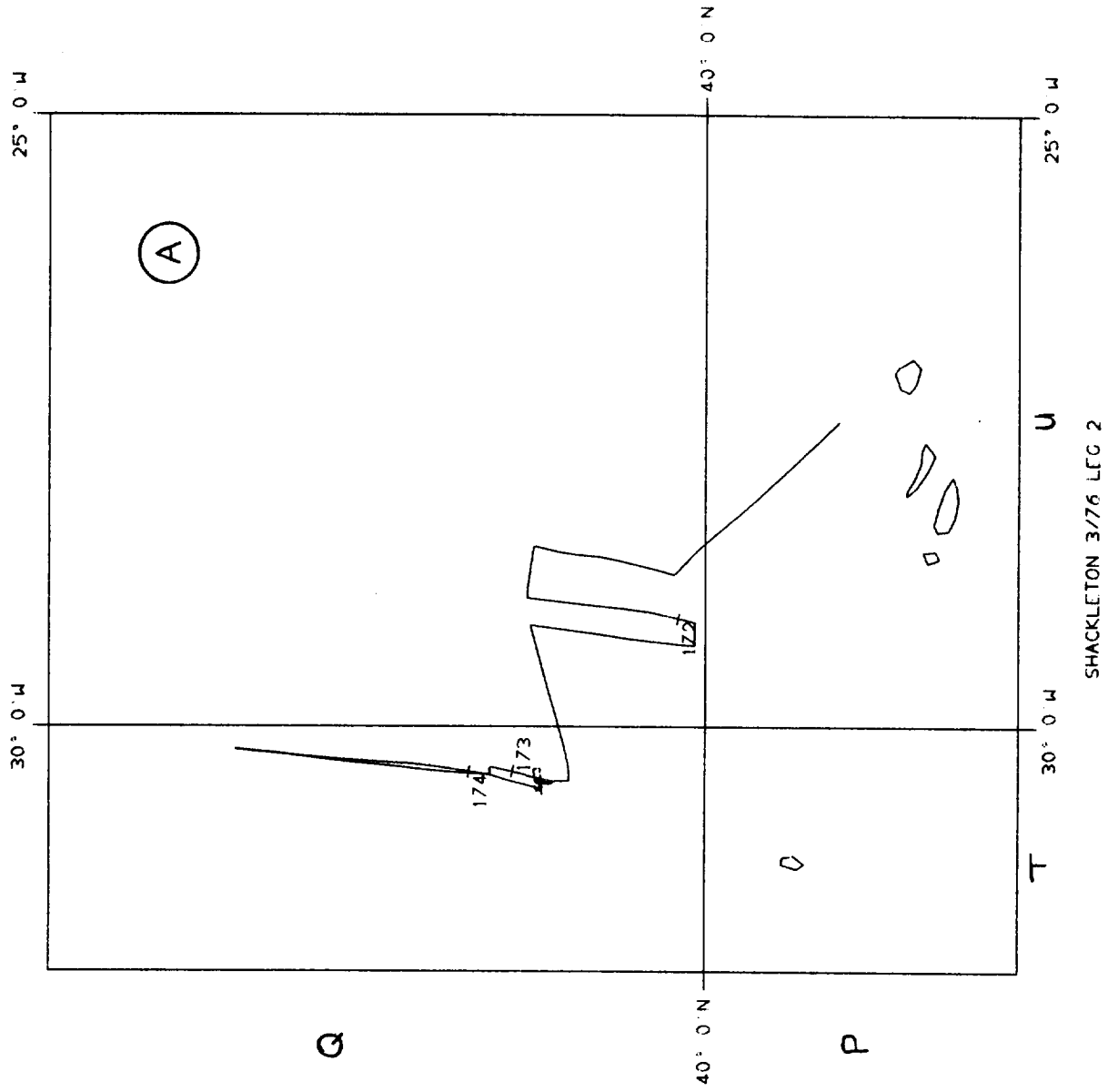
Start Port - Azores
End Port - Barry

Data Starts - 0000z 19-Jun-76
Data Ends - 0750z 22-Jun-76

Latitude minimum - 39.1N
Latitude maximum - 42.9N
Longitude minimum - 30.6W
Longitude maximum - 27.4W

Distribution of data for Shackleton Cruise 3/76:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| ATQ | 1292 | 558 | 1291 |
| AUP | 194 | 194 | 194 |
| AUQ | 901 | 894 | 901 |
| ----- Total | ----- 2387 | ----- 1646 | ----- 2386 |



Shackleton Cruise 6/76

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 13139
Bathymetry - 12693
Magnetics - 11958
Gravity - 12391

P.S.O. - Roberts

Start Port - Barry

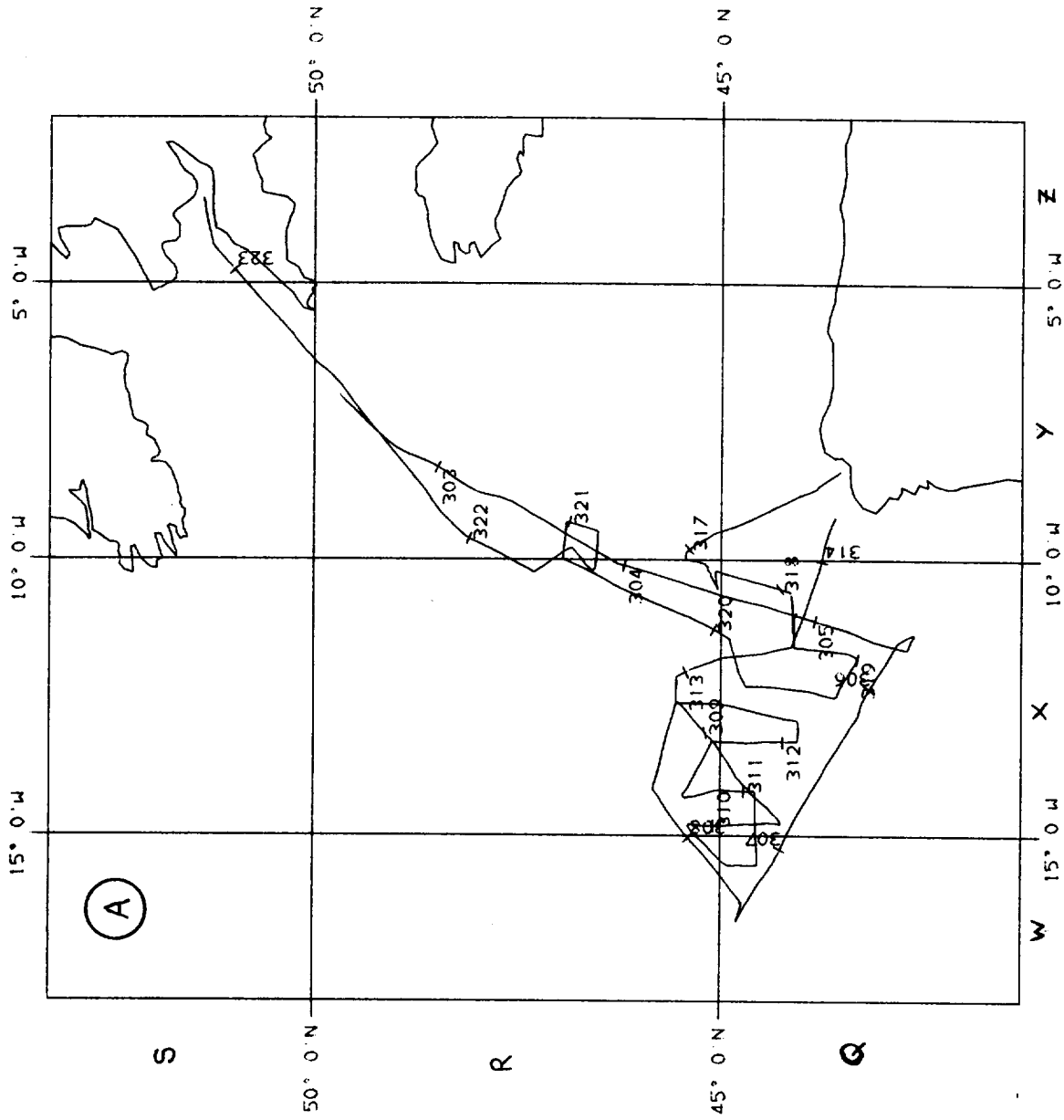
End Port - Barry

Data Starts - 1234z 28-Oct-76
Data Ends - 0500z 18-Nov-76

Latitude minimum - 42.5N
Latitude maximum - 51.3N
Longitude minimum - 16.0W
Longitude maximum - 3.4W

Distribution of data for Shackleton Cruise 6/76:-

| Geographical Area Code | B | M | G |
|---------------------------|--------------|--------------|--------------|
| AWQ | 640 | 844 | 844 |
| AWR | 316 | 318 | 318 |
| AXQ | 5110 | 4993 | 4812 |
| AXR | 3353 | 3320 | 3011 |
| AYR | 2211 | 1891 | 2329 |
| AYS | 202 | 0 | 202 |
| AZS | 32 | 0 | 182 |
| <u>Total</u> | <u>12693</u> | <u>11958</u> | <u>12391</u> |



SHACKLETON 6/76

Shackleton Cruise 8/77

Magtapes:-

Original copy

MSG copy
Archive copy

Total records - 12274
Bathymetry - 10563
Magnetics - 5445
Gravity - 8990

P.S.O. - Francis

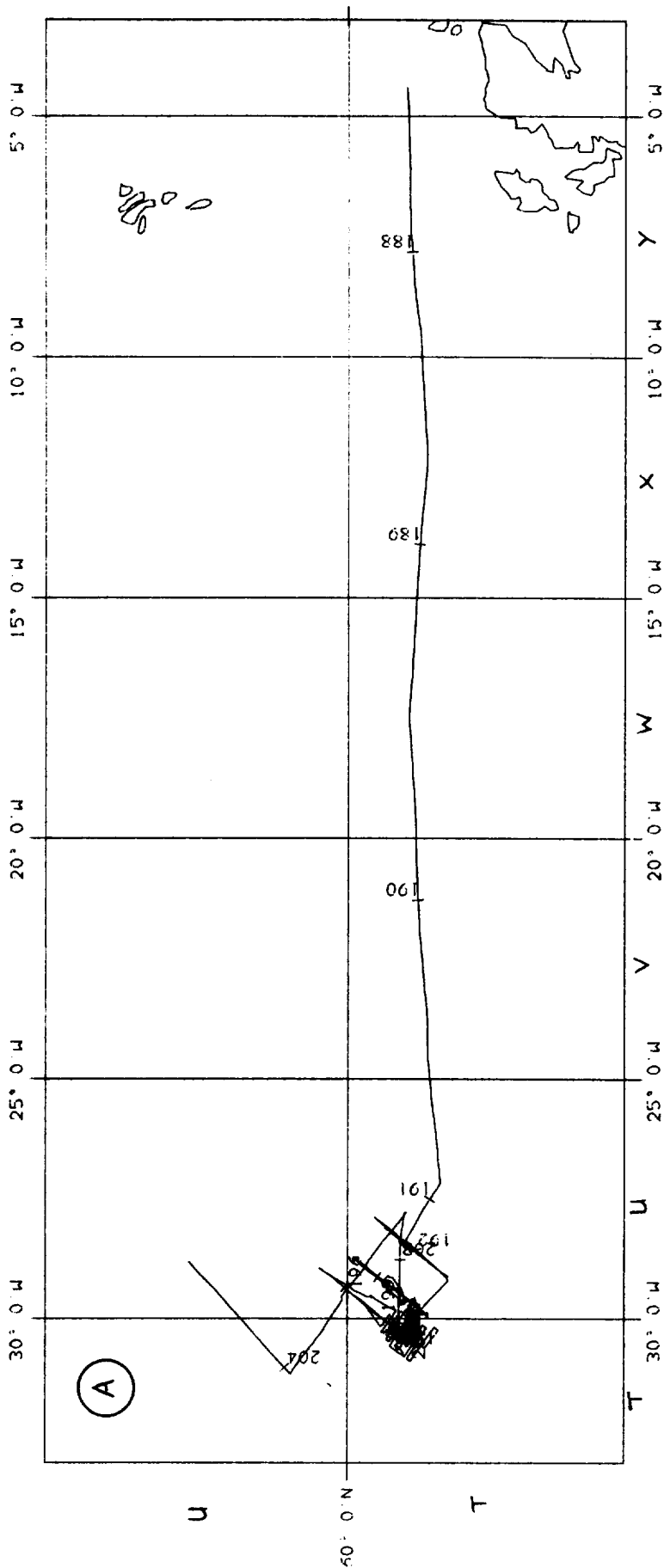
Start Port - Aberdeen
End Port - Reykjavik

Data Starts - 0854z 06-Jul-77
Data Ends - 1000z 23-Jul-77

Latitude minimum - 58.9N
Latitude maximum - 61.7N
Longitude minimum - 31.2W
Longitude maximum - 4.3W

Distribution of data for Shackleton Cruise 8/77:-

| Geographical Area Code | B | M | G |
|---------------------------|----------------|---------------|---------------|
| ATT | 3617 | 1615 | 3749 |
| ATU | 323 | 323 | 323 |
| AUT | 3396 | 1899 | 2385 |
| AUU | 422 | 346 | 238 |
| AVT | 536 | 536 | 534 |
| AWT | 486 | 486 | 486 |
| AXT | 503 | 503 | 503 |
| AYT | 717 | 674 | 709 |
| AZT | 59 | 59 | 59 |
| ----- Total | ----- 10564 | ----- 5446 | ----- 8991 |



SHACKLETON 8/77

Shackleton Cruise 6/79 Leg 1

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 8338
Bathymetry - 5145
Magnetics - 0
Gravity - 8115

P.S.O. - whitmarsh

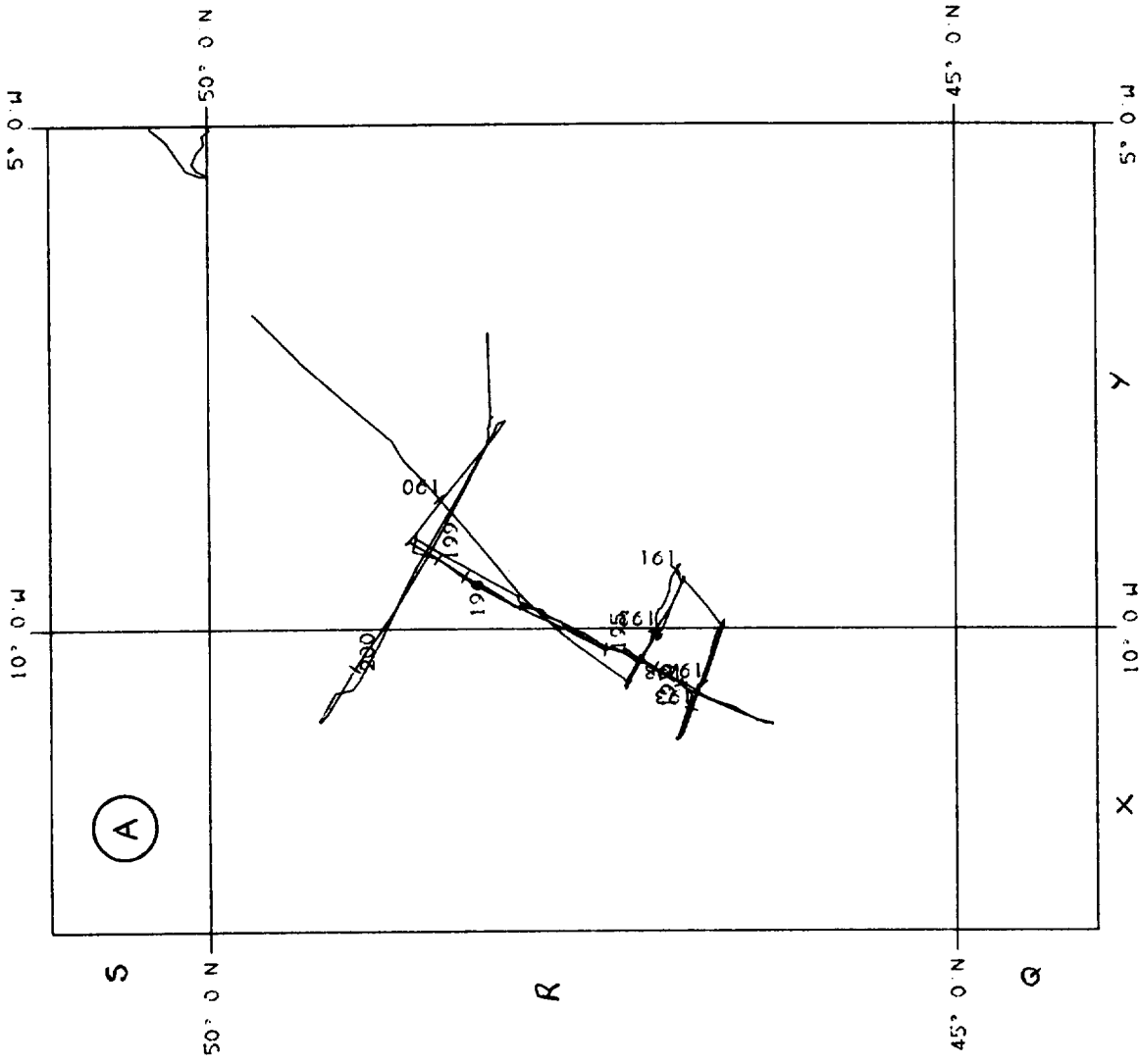
Start Port - Barry
End Port - Brest

Data Starts - 0956z 26-Jul-79
Data Ends - 2350z 19-Jul-79

Latitude minimum - 46.2N
Latitude maximum - 49.7N
Longitude minimum - 11.2W
Longitude maximum - 0.7W

Distribution of data for Shackleton Cruise 6/79 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|-------------|----------|-------------|
| AXR | 2649 | 0 | 4487 |
| AYR | 2496 | 0 | 3630 |
| <u>Total</u> | <u>5145</u> | <u>0</u> | <u>8117</u> |



SHACKLETON 6/779 LFG 1

Shackleton Cruise 6/79 Leg 2

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 5650
Bathymetry - 5356
Magnetics - 0
Gravity - 5609

P.S.O. - Roberts

Start Port - Brest

End Port - Barry

Data Starts - 2328z 21-Jul-79

Data Ends - 0100z 30-Jul-79

Latitude minimum - 46.2N

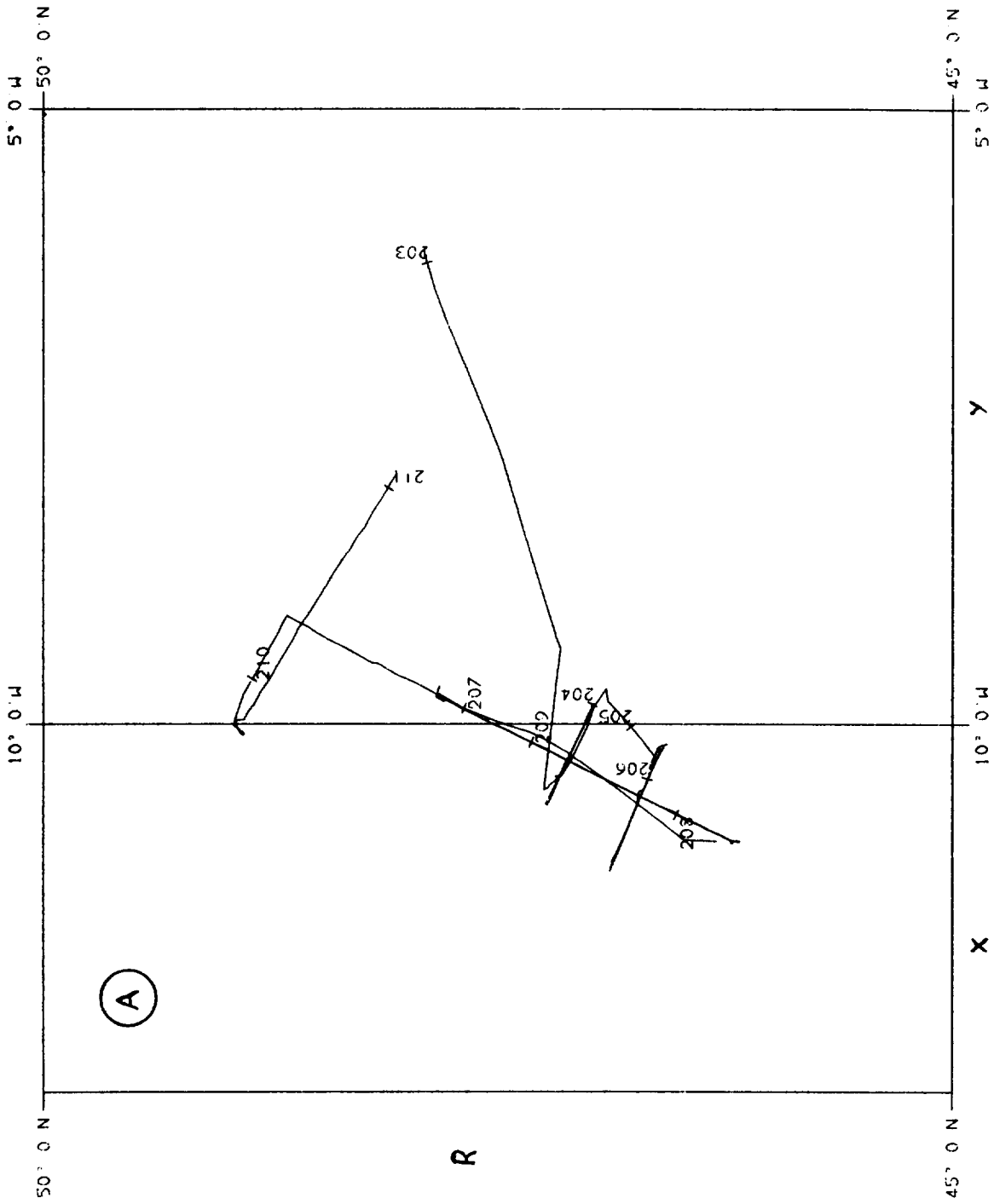
Latitude maximum - 49.0N

Longitude minimum - 11.2W

Longitude maximum - 0.1W

Distribution of data for Shackleton Cruise 6/79 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|------------|---------------|
| AXR | 2995 | 0 | 3205 |
| AYR | 2362 | 0 | 2405 |
| ----- Total | ----- 5357 | ----- 0 | ----- 5610 |



SHACKLETON 6/79 LEG 2

Starella 1 part A

Magtapes:-

Original copy
MGG copy
Archive copy

Total records - 6932
Bathymetry - 6514
Magnetics - 4629
Gravity - 6217

P.S.O. - Roberts

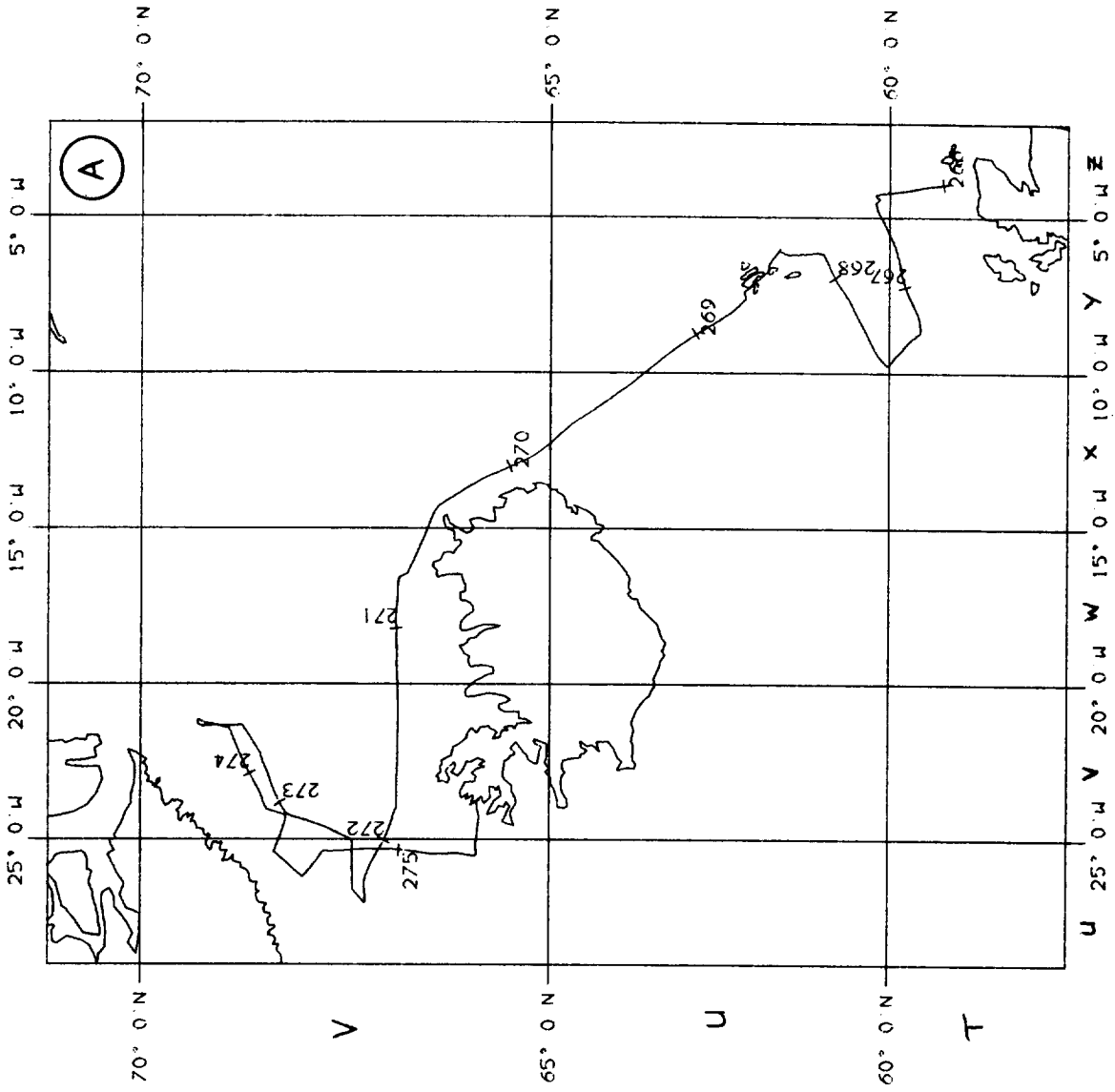
Start Port - Hull
End Port - Woods Hole, U.S.A.

Data Starts - 2314z 22-Sep-79
Data Ends - 1416z 02-Oct-79

Latitude minimum - 59.0N
Latitude maximum - 69.4N
Longitude minimum - 27.1W
Longitude maximum - 3.3W

Distribution of data for Starella Cruise 1A:-

| Geographical Area Code | B | M | G |
|---------------------------|---------------|---------------|---------------|
| AUV | 1177 | 453 | 1162 |
| AVV | 1629 | 1209 | 1658 |
| AWV | 522 | 450 | 522 |
| AXU | 342 | 376 | 376 |
| AXV | 524 | 524 | 524 |
| AYT | 571 | 600 | 498 |
| AYU | 1310 | 995 | 1047 |
| AZT | 221 | 0 | 212 |
| AZU | 219 | 22 | 219 |
| ----- Total | ----- 6515 | ----- 4629 | ----- 6218 |



STARELLA 1A

Starella 1 part B

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 10929
Batnymetry - 10466
Magnetics - 3227
Gravity - 3261

P.S.O. - Roberts

Start Port - Hull

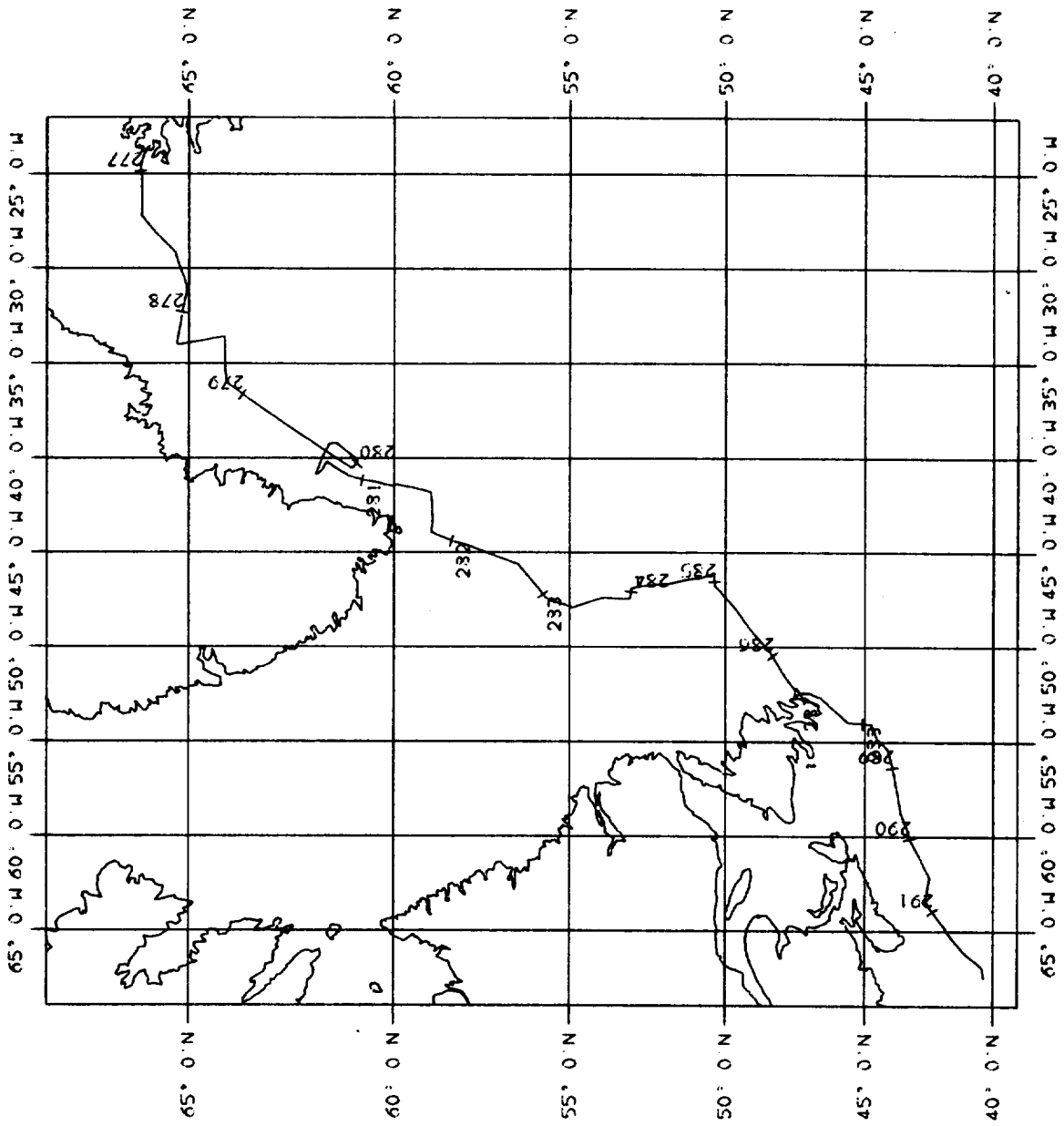
End Port - Woods Hole, U.S.A.

Data Starts - 1743z 03-Oct-79
Data Ends - 2204z 18-Oct-79

Latitude minimum - 40.3N
Latitude maximum - 66.1N
Longitude minimum - 67.6W
Longitude maximum - 23.4W

Distribution of data for Starella Cruise 1B:-

| Geographical Area Code | B | M | G |
|---------------------------|----------------|---------------|---------------|
| AMQ | 434 | 0 | 0 |
| ANQ | 927 | 0 | 0 |
| AUQ | 1078 | 0 | 0 |
| APQ | 306 | 0 | 0 |
| APR | 1177 | 0 | 0 |
| AQR | 466 | 0 | 0 |
| ALS | 1382 | 0 | 0 |
| AQT | 720 | 0 | 0 |
| ART | 759 | 192 | 192 |
| ARU | 795 | 798 | 759 |
| ASU | 934 | 991 | 937 |
| ATU | 320 | 320 | 303 |
| ATV | 445 | 445 | 445 |
| AUV | 478 | 478 | 478 |
| AVV | 134 | 3 | 143 |
| ----- Total | ----- 10466 | ----- 3227 | ----- 3262 |



Farnella 2/81 Leg 1

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 12337
Bathymetry - 11913
Magnetics - 10530
Gravity - 11725

P.S.O. - Somers

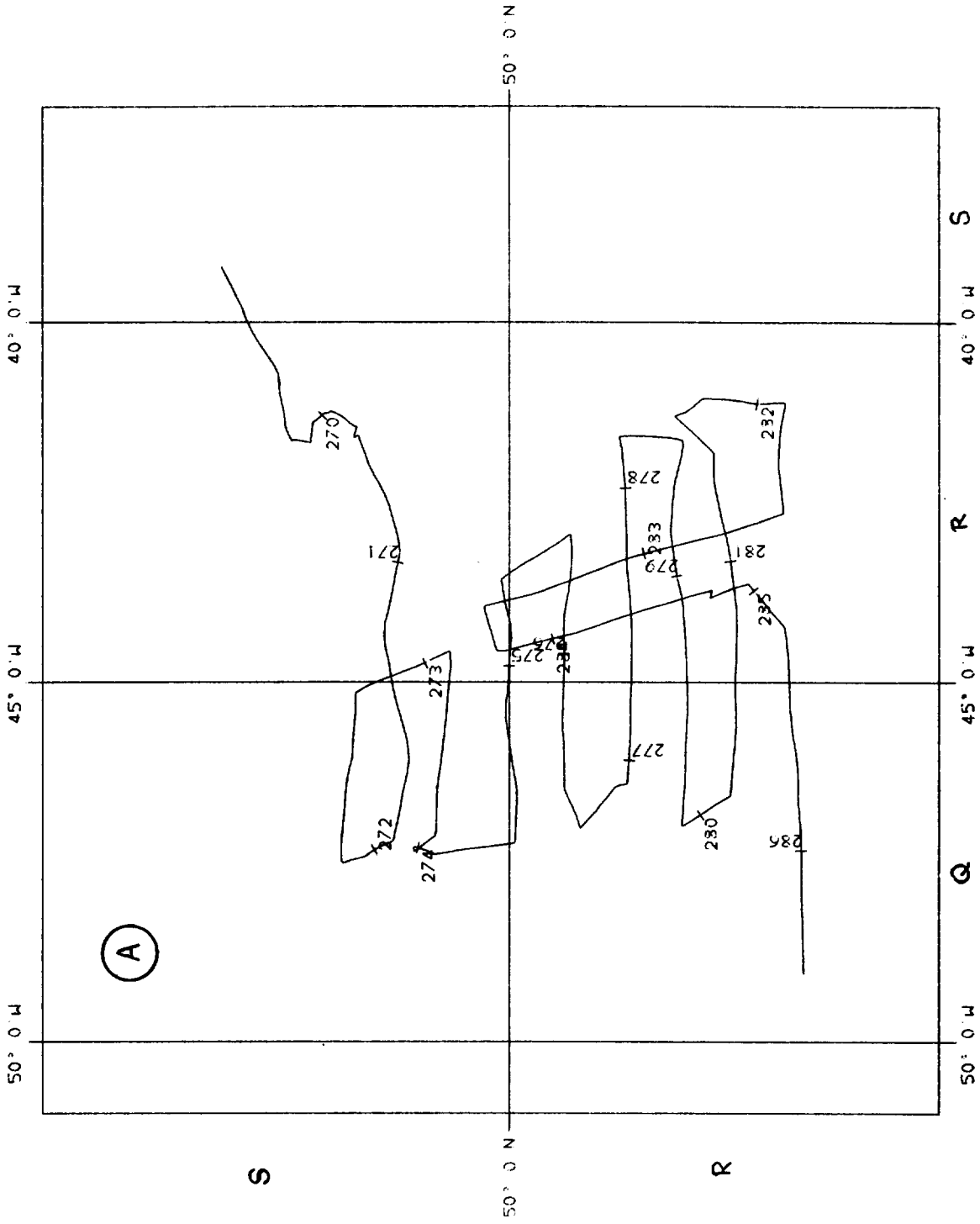
Start Port - Hull
End Port - St. Johns

Data Starts - 0000z 25-Sep-81
Data Ends - 1000z 15-Oct-81

Latitude minimum - 47.2N
Latitude maximum - 52.6N
Longitude minimum - 49.1W
Longitude maximum - 39.2W

Distribution of data for Farnella 2/81 Leg 1:-

| Geographical Area Code | B | M | G |
|---------------------------|--------------|--------------|--------------|
| AJR | 2714 | 2714 | 2714 |
| AQS | 1852 | 1776 | 1343 |
| ARR | 5231 | 5184 | 5206 |
| ARS | 2121 | 906 | 1831 |
| ASS | 0 | 0 | 127 |
| <u>Total</u> | <u>11913</u> | <u>10530</u> | <u>11725</u> |



FARNELLA 2/81 Leg 1

Farnella 2/81 Leg 2

Magtapes:-

Original copy

MGG copy
Archive copy

Total records - 11936
Bathymetry - 11129
Magnetics - 11100
Gravity - 11149

P.S.O. - Revie

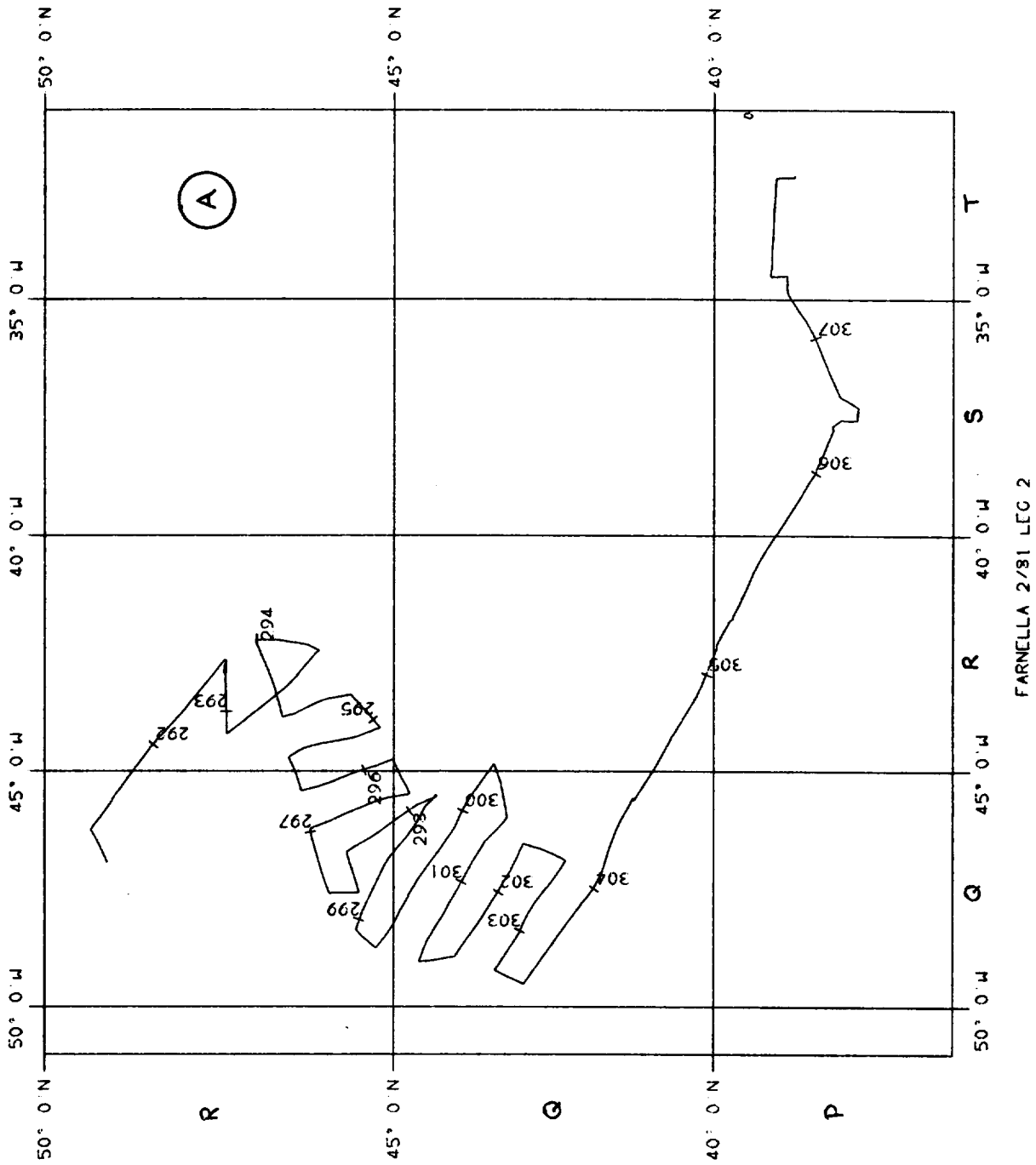
Start Port - St. Johns
End Port - Azores

Data Starts - 0740z 18-Oct-81
Data Ends - 2130z 03-Nov-81

Latitude minimum - 37.0N
Latitude maximum - 49.4N
Longitude minimum - 49.0W
Longitude maximum - 32.3W

Distribution of data for Farnella 2/81 Leg 2:-

| Geographical Area Code | B | M | G |
|---------------------------|-------|-------|-------|
| AQQ | 4297 | 4425 | 4372 |
| AQR | 2152 | 2173 | 2134 |
| ARP | 397 | 333 | 405 |
| ARQ | 438 | 449 | 449 |
| ARR | 2832 | 2712 | 2787 |
| ASP | 1014 | 959 | 1003 |
| ----- | | | |
| Total | 11130 | 11101 | 11150 |



Farnella 3/81

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 13025
Bathymetry - 12632
Magnetics - 12915
Gravity - 12950

P.S.O. - Searle

Start Port - Azores

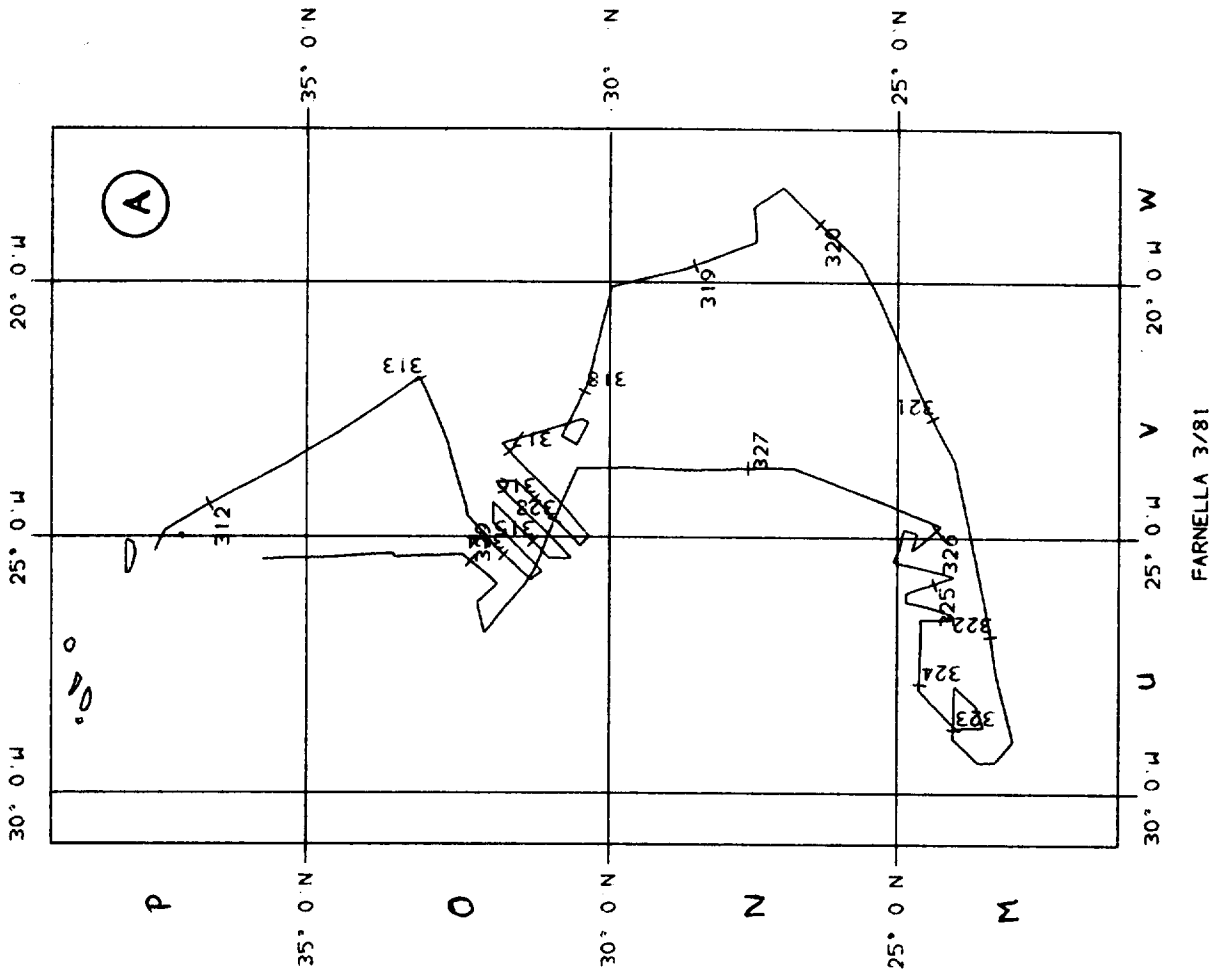
End Port - Azores

Data Starts - 1722z 07-Nov-61
Data Ends - 1932z 25-Nov-61

Latitude minimum - 22.9N
Latitude maximum - 37.4N
Longitude minimum - 29.4W
Longitude maximum - 18.1W

Distribution of data for Farnella Cruise 3/81:-

| Geographical Area Code | B | M | G |
|---------------------------|--------------|--------------|--------------|
| AUM | 2920 | 2995 | 2928 |
| AUN | 50 | 50 | 50 |
| AUG | 1922 | 1930 | 1952 |
| AUP | 67 | 94 | 154 |
| AVM | 1040 | 1040 | 1040 |
| AVN | 1240 | 1240 | 1233 |
| AVO | 3836 | 3906 | 3906 |
| AVP | 357 | 446 | 473 |
| AWN | 1140 | 1215 | 1215 |
| <u>Total</u> | <u>12632</u> | <u>12916</u> | <u>12915</u> |



Farnella 4/81

Magtapes:-

Original copy

MOG copy

Archive copy

Total records - 12864
Bathymetry - 11678
Magnetics - 10902
Gravity - 12356

P.S.O. - Searle

Start Port - Azores

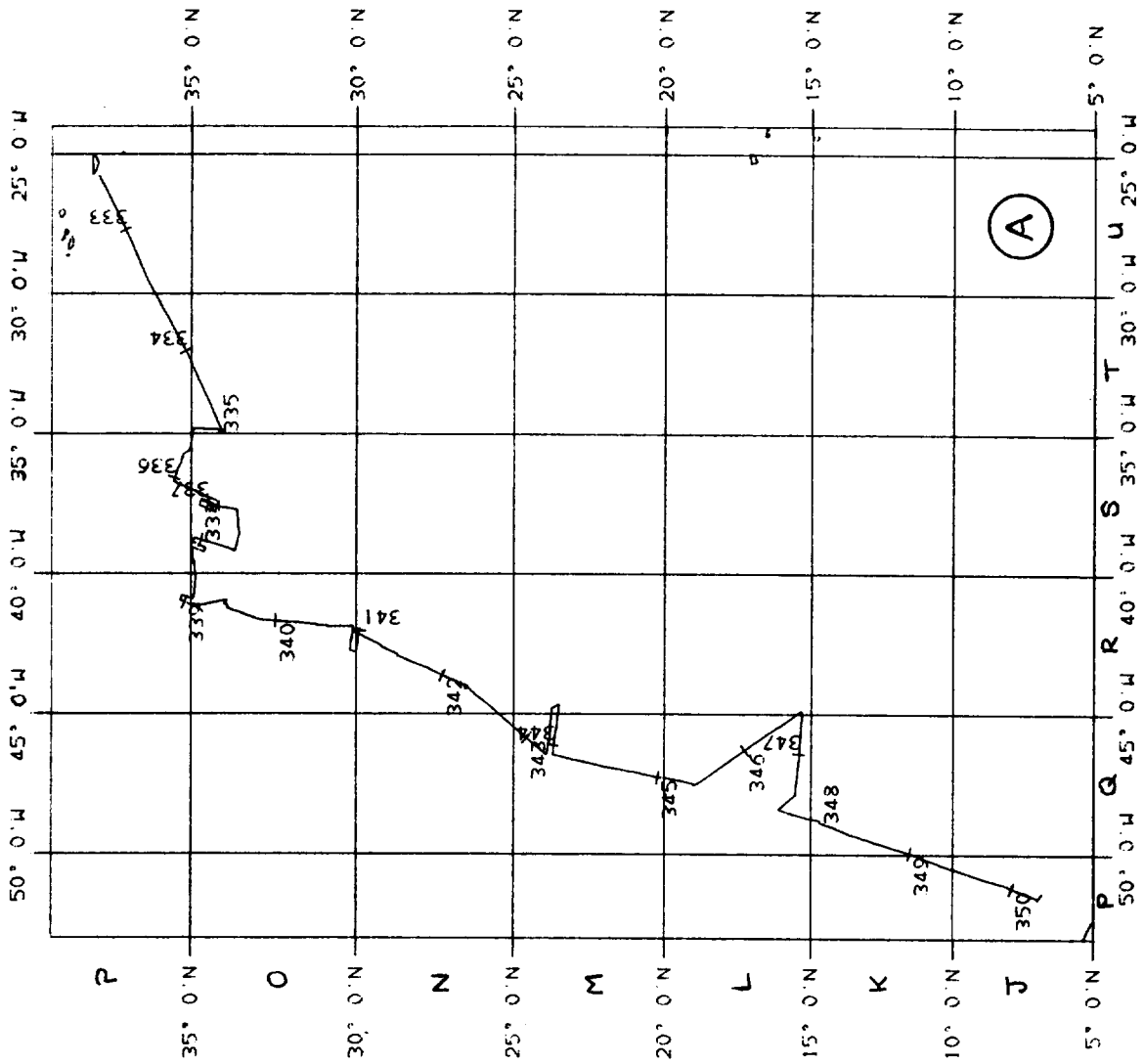
End Port - Belem

Data Starts - 1220z 28-Nov-81
Data Ends - 0906z 16-Nov-81

Latitude minimum - 6.8N
Latitude maximum - 37.7N
Longitude minimum - 51.6W
Longitude maximum - 25.7W

Distribution of data for Farnella Cruise 4/81:-

| Geographical Area Code | B | M | G |
|---------------------------|-------|-------|-------|
| APJ | 532 | 0 | 711 |
| APK | 225 | 243 | 246 |
| AQK | 716 | 697 | 874 |
| AQL | 1824 | 1821 | 1933 |
| AQM | 1455 | 1455 | 1455 |
| AQN | 110 | 110 | 110 |
| ARL | 63 | 63 | 63 |
| ARM | 131 | 131 | 131 |
| ARN | 1075 | 1022 | 1140 |
| ARO | 1409 | 1282 | 1656 |
| AKP | 166 | 166 | 166 |
| ASG | 1775 | 1775 | 1775 |
| ASP | 428 | 428 | 428 |
| ATO | 676 | 641 | 1034 |
| ATP | 402 | 402 | 402 |
| Total | 11678 | 10902 | 12857 |



FARNELLA 4/81

Farnella 8,9

Magtapes:-

Original copy

MGG copy

Archive copy

Total records - 11477
Bathymetry - 7651
Magnetics - 1627
Gravity - 921

P.S.O. - Searle

Start Port - Miami

End Port - Hull

Data Starts - 2014z 28-Feb-82

Data Ends - 0522z 22-Mar-82

Latitude minimum - 0.9N

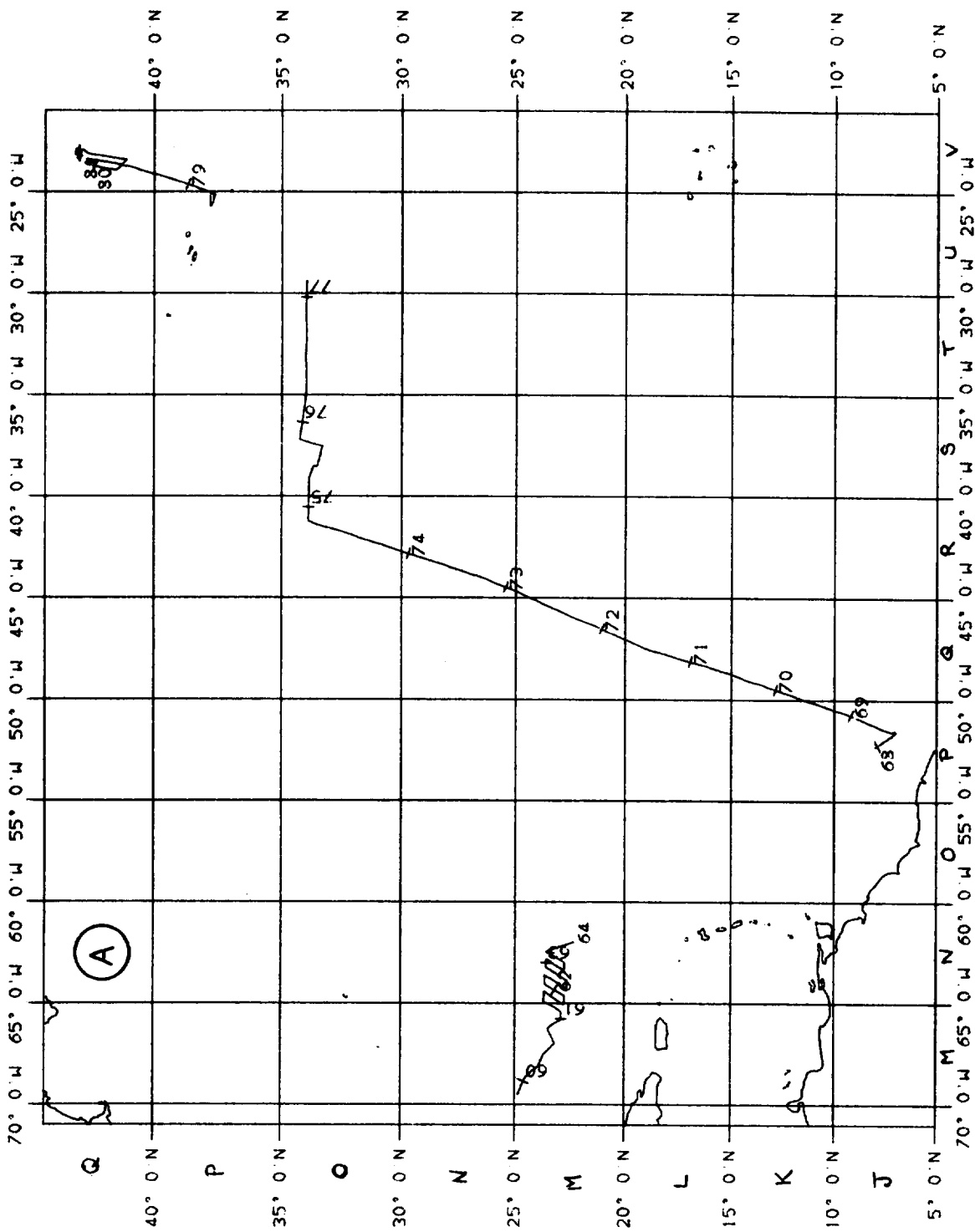
Latitude maximum - 43.0N

Longitude minimum - 69.0W

Longitude maximum - 22.7W

Distribution of data for Farnella Cruises 8,9:-

| Geographical Area Code | B | M | G |
|---------------------------|-------------|-------------|------------|
| AMM | 995 | 0 | 667 |
| ANM | 1837 | 0 | 254 |
| APJ | 791 | 0 | 0 |
| APK | 239 | 0 | 0 |
| AQK | 571 | 0 | 0 |
| AQL | 635 | 0 | 0 |
| AQM | 597 | 0 | 0 |
| ARM | 104 | 0 | 0 |
| ARN | 609 | 0 | 0 |
| AKO | 618 | 0 | 0 |
| ASO | 717 | 401 | 0 |
| ATC | 491 | 0 | 0 |
| AUO | 74 | 0 | 0 |
| AVQ | 1274 | 1226 | 0 |
| <u>Total</u> | <u>9652</u> | <u>1627</u> | <u>921</u> |



FARNELLA 8.9

Appendix A - Explanation of area-coding

The method of indicating a particular area is one widely used for atlases and maps. The area codes used in this document are based on five-degree squares. The square boundaries are the latitudes and longitudes divisible by five i.e. 5 to 10, 10 to 15, 15 to 20, etc.

Each square is uniquely identified by a three-character, alphanumeric code. The first character indicates whether the square is in the eastern or western hemisphere (A - West, B - East). The second character defines the longitude within a hemisphere, the five-degree squares are coded from West to East by the 36 alphanumeric 0 - 9 and A - Z. This is repeated for each hemisphere. The third character defines the latitude, the squares are coded from South to North again using the alphanumerics 0 - 9 and A - Z.

Appendix A (continued)

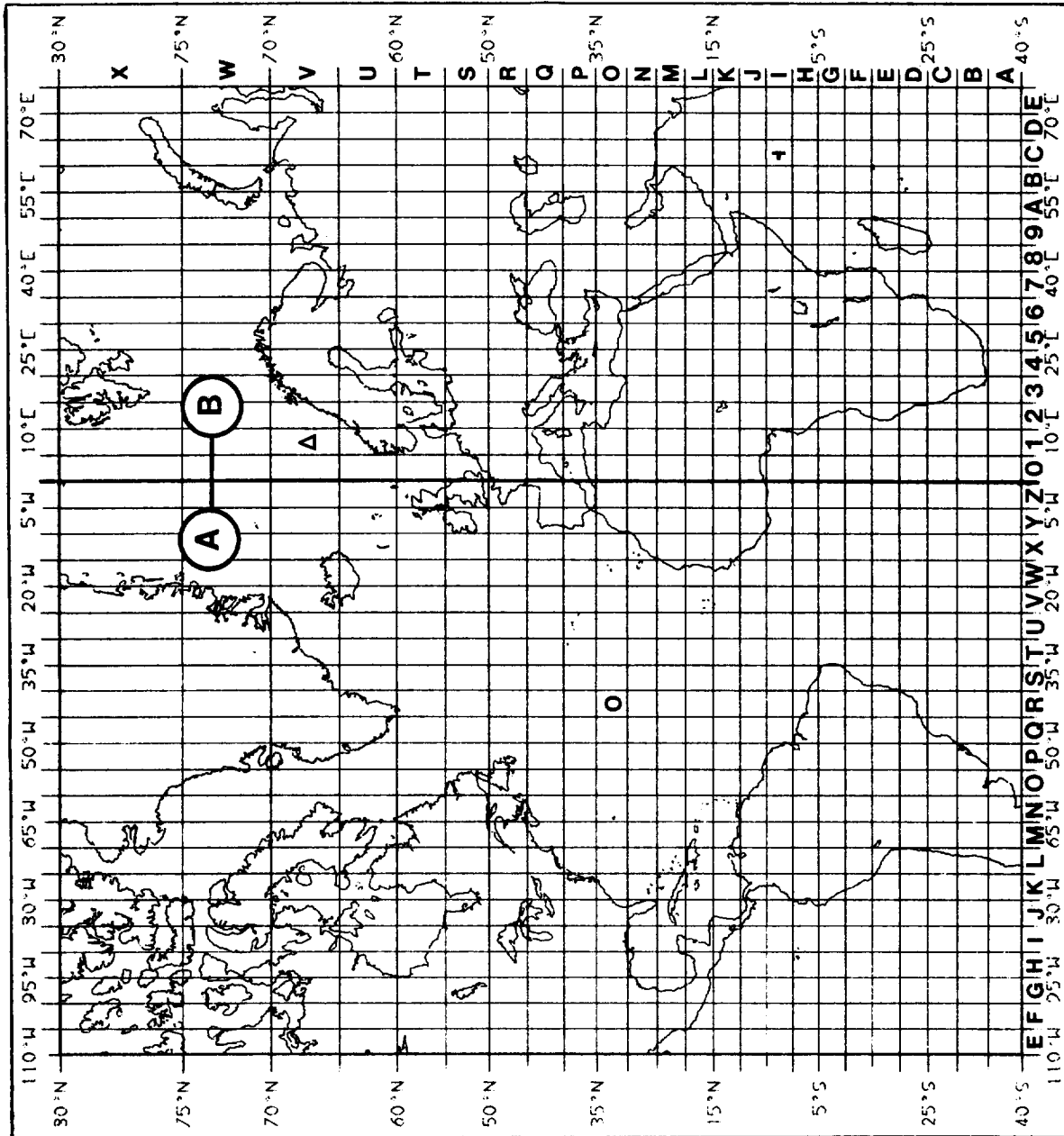
The 5° squares annotated with symbols on the adjacent chart indicate how the coding is used :

symbol Δ gives code B1V

symbol $+$ gives code BCI

symbol \circ gives code ARO

Care should be taken when distinguishing between the characters 0, O, I and 1.



APPENDIX B - Published Cruise Reports

- CR1 LAUGHTON, A.S. et al., 1973. RRS Discovery Cruise 54, 29 June to 15 August 1973. GLORIA studies of the Mid-Atlantic Ridge (FAMOUS area) and the Azores-Gibraltar plate boundary. 26 pp. and figs.
- CR8 ROBERTS, D.G. et al., 1974. RRS Discovery Cruise 60, 26 February to 22 March 1974. Seismic reflection profiling on the Rockall Plateau and in the South Western Approaches. 17 pp.
- CR16 LAUGHTON, A.S. et al., 1975. RRS Discovery Cruise 68 (3 legs) 1 November to 15 December 1974. Oceanic tidal survey from N. Biscay Shelf to Azores: geophysical surveys NE of Azores: biological hauls near 44°N, 13°W and testing of miscellaneous physical equipment. 25 pp., 1975.
- CR24 WHITMARSH, R.B. et al., 1975. RRS Shackleton Cruises 3/75 and 4/75, 27 March to 7 May 1975. Geophysical studies of the Gulf of Aden, Gulf of Oman and Owen Basin (Northwest Indian Ocean). 18 pp. and figs., 1975.
- CR33 ROBERTS, D.G. et al., 1975. RRS Discovery 74, Leg 2, 15 September to 26 September 1975. Seismic reflection profiling across the continental margin in the Southwest Approaches (North Biscay). 20 pp. and figs., 1975.
- CR34 LAUGHTON, A.S. et al., 1975. RRS Discovery Cruise 73, 3 July to 26 August 1975. GLORIA and geophysical studies on the Mid-Atlantic Ridge and north of the Azores. 29 pp. and figs., 1975.
- CR45 WHITMARSH, R.B. et al., 1976. RRS Shackleton Cruise 3/76, Leg 1, Bridgetown, Barbados to Ponta Delgada, Azores, 4 June to 14 June 1976. Great Circle XBT section, Leg 2, Ponta Delgada, Azores to Barry, U.K., 18 June to 11 July 1976. Geophysical studies at Kurchatov Fracture Zone Mid-Atlantic Ridge and at 45°24', 20°51'W. 11 pp.
- CR49 ROBERTS, D.G. et al., 1976. RRS Shackleton Cruise 6/76. 27 October to 18 November 1976. Geophysical studies of south-west Biscay. 20 pp.
- CR60 LAUGHTON, A.S. et al., 1977. RRS Discovery Cruise 84, 15 June to 28 July 1977. Geophysical and geological studies of the Charlie Gibbs Fracture Zone, the Reykjanes Ridge and King's Trough. 29 pp. and figs., 1977.
- CR68 ROBERTS, D.G. et al., 1978. RRS Discovery Cruise 90, 20 January to 3 March 1978. Sonar imaging of the European-North-African continental margin. 22 pp., 1978.
- CR69 SEARLE, R.C. et al., 1978. RRS Discovery Cruise 91, 5 to 28 March 1978. Geophysical studies of the Azores Triple Junction and the Azores-Biscay Rise. 16 pp. and figs., 1978.
- CR71 WHITMARSH, R.B. et al., 1978. RRS Discovery Cruise 93, 26 May to

5 July 1978. The deep structure of the northern Azores-Biscay Rise and detailed seismic studies of crustal ageing east of the Mid-Atlantic Ridge. 18 pp. and figs., 1978.

- CR79 BELDERSON, R.H. et al., 1979. RRS Discovery Cruise 96, 21 November to 4 December 1979. Geological investigation in the equatorial Atlantic. 7 pp. and figs.
- CR80 WHITMARSH, R.B. et al., 1979. RRS Shackleton Cruise 6/79, 7 to 31 July 1979. Seismic studies of the continent-ocean transition in North Biscay. 21 pp. and figs.
- C88 SEARLE, R.C. et al., 1980. RRS Discovery Cruise 103, 9 to 25 July 1979. Geology and geophysics in the Gulf of Aden and Red Sea. 19 pp. and figs.
- C90 KIDD, R.B. et al., 1980. RRS Discovery Cruise 108, 5 December to 22 December 1979. Trans-Atlantic passage with equipment trials and high-resolution seismic profiling. 16 pp. and figs.
- C94 ROBERTS, D.G. et al., 1980. RRS Discovery Cruise 101, 10 April to 6 May 1979. Geophysical investigations in the SW Indian Ocean and around the northern Mascarene Plateau. 20 pp. and figs.
- C98 STRIDE, A.H. et al., 1980. RRS Discovery Cruise 109, 10 March to 19 April 1980. Geological and geophysical studies of the Antilles region. 10 pp. and figs.
- C100 WHITMARSH, R.B. et al., 1980. RRS Discovery Cruise 107, 28 December 1979 (362) to 9 February 1980 (040). Lesser Antilles Deep Lithosphere Experiment (LADLE). 25 pp. and figs.
- C102 SEARLE, R.C. et al., 1980. RRS Discovery Cruise 110, 22 April to 18 June 1980. Geophysics and geochemistry in the East Pacific Ocean. 30 pp. and figs.
- C103 KIDD, R.B. et al., 1980. RRS Discovery Cruise 111, Leg 1, 21 June to 3 July 1980. GLORIA survey of the Blake-Bahama Outer Ridges. 8 pp. and figs.
- C104 ROBERTS, D.G. et al., 1980. RRS Discovery Cruise 111, Leg 2, 8 July to 30 July 1980. Geophysical studies of the continental margin around the Grand Banks. 16 pp. and figs.
- C105 KENYON, N.H. et al., 1980. RRS Discovery Cruise 104, 27 July to 19 August 1979. Geological studies in the Mediterranean. 7 pp. and figs.
- C117 FRANCIS, T.J.G. et al., 1981. RRS Discovery 118, 11 February to 30 March 1981. Geophysics and sediment sampling in the Northeast Atlantic. 33 pp. and figs.
- C112 SEARLE, R.C. et al., 1982. MV Farnella Cruise 3/81, 7 November to 26 November 1981. GLORIA studies of lower continental rise and abyssal plain sedimentation in the Canary Basin. 14 pp.

- C123 SEARLE, R.C. et al., 1981. MV Farnella Cruise 4/81, 28 November to 19 December 1981. Tide-gauge deployments and GLORIA studies of Mid-Atlantic Ridge fracture zones between the Azores and northern South America. 15 pp.
- C131 WILSON, J.B. et al., 1982. RRS Discovery Cruise 123, 5 August to 10 September 1981. Geological investigations on the continental slope to the west of the British Isles and Norway. 15 pp.
- C137 WHITMARSH, R.B. et al., 1982. RRS Discovery Cruise 131, 12 August (224) to 23 September (226) 1982. Geology and Geophysics of the Charlie-Gibbs Fracture Zone, North Atlantic Ocean. 33 pp.
- C157 SEARLE, R.C. et al., 1984. RRS Discovery Cruise 142, 20 November to 18 December 1983. Geophysical investigations of the Romanche and St. Paul Fracture Zones, equatorial Atlantic Ocean. 30 pp.
- C161 SCHULTHEISS, P.J. et al., 1984. RRS Discovery Cruise 144, 22 January to 20 February 1984. Geology and geophysics of an area east of the Great Meteor Seamount. 37 pp.

Owing to operational difficulties or because of commercial funding, the following cruises are currently not available on magnetic tape:

- C141 FRANCIS, T.J.G. et al., 1983. RRS Discovery Cruise 126, 4 March to 3 April 1982. Geological and geophysical studies between the Azores and the Canaries. 21 pp.
- C149 KENYON, N.H. & GARRISON, L. et al., 1982. MV Farnella Cruise 6, 21 to 31 January 1982. Cruise 7, 2 to 23 February 1982.
- C151 BELDERSON, R.H. & DAMOTH, J.B. et al., 1983. MV Farnella Cruise 5, 2 to 19 January 1982. Morphological studies of the Amazon Cone and Barbados Outer Ridge. 12 pp.

APPENDIX C - Unpublished Data Reports

The following data reports were compiled

- JONES, M.T., 1972. Bathymetric and Magnetic Traverses in the area of Rockall Bank and King's Trough; RRS Discovery Cruise 33. National Institute of Oceanography Data Report Geophysics 1, 21 pp. and figs. (unpublished manuscript).
- JONES, M.T., 1973. Bathymetric and Magnetic Traverses across the North Atlantic; NC Marcel Bayard, Cantat II Ocean Survey Cruise. National Institute of Oceanography Data Report Geophysics 2, 24 pp. and figs. (unpublished manuscript).
- OLLIFF, N.J., 1973. GLORIA in Peeke and Freaan Deeps and on the Azores-Gibraltar Rise; RRS Discovery Cruise 43. National Institute of Oceanography Data Report Geophysics 3, 20 pp. and figs. (unpublished manuscript).
- OLLIFF, N.J., 1973. Bathymetric and Magnetic Traverses over the Rockall Plateau; RRS Discovery Cruise 47. National Institute of Oceanography Data Report Geophysics 4, 20 pp. and figs. (unpublished manuscript).
- MILES, P.R., 1976. GLORIA studies of the Mid-Atlantic ridge (FAMOUS area) and the Azores-Gibraltar Plate Boundary; Discovery Cruise 54. Institute of Oceanographic Sciences Data Report No. 8, 22 pp. and figs. (unpublished manuscript).
- MILES, P.R., 1976. Bathymetric and Magnetic Traverses over the South-west Margin of the Rockall Plateau; RRS Discovery Cruise 60. Institute of Oceanographic Sciences Data Report No. 9, 23 pp. and figs. (unpublished manuscript).
- MILES, P.R., 1977. GLORIA and Geophysical Studies of the Mid-Atlantic Ridge and North of the Azores; RRS Discovery Cruise 73. Institute of Oceanographic Sciences Data Report No. 12, 23 pp. and figs. (unpublished manuscript).
- MILES, P.R. & SAUNDERS, M.R., 1978. Geophysical Studies of the Gulf of Aden, Gulf of Oman and Owen Basin (Arabian Sea); RRS Shackleton Cruise 3,4/75. Institute of Oceanographic Sciences Data Report No. 13, 16 pp. and figs. (unpublished manuscript).
- MILES, P.R. & SAUNDERS, M.R., 1980. Geophysical Studies of South-west Biscay and the Continental Margins of the Southwest Approaches (North Biscay); RRS Discovery Cruise 74, Leg 2, and RRS Shackleton Cruise 6/76. Institute of Oceanographic Sciences Data Report No. 16, 10 pp. and figs. (unpublished manuscript).
- MILES, P.R. & SAUNDERS, M.R., 1980. GLORIA and Geophysical Studies of the Charlie-Gibbs Fracture Zone, the Reykjanes Ridge and King's Trough; RRS Discovery Cruise 84. Institute of Oceanographic Sciences Data Report No. 21, 10 pp. and figs. (unpublished manuscript).
- SAUNDERS, M.R., 1981. Geophysical Studies of the European-North African Continental Margin, the Azores Triple Junction and the Azores-Biscay Rise; RRS Discovery Cruises 90 and 91. Institute of Oceanographic Sciences Data Report No. 24, 10 pp. and figs. (unpublished manuscript).

APPENDIX D - Data available through World Data Centre A

Data from the following cruises are currently available through World Data Centre A (see Appendix E for address):

Discovery 54, Leg 1
Discovery 54, Leg 2
Discovery 60
Discovery 68, Leg 2
Discovery 73, Leg 1
Discovery 73, Leg 2
Discovery 74, Leg 2
Discovery 84, Leg 1
Discovery 84, Leg 2
Discovery 90, Leg 1
Discovery 90, Leg 2
Discovery 91
Discovery 93, Leg 1
Discovery 93, Leg 2

Shackleton 3/75
Shackleton 4/75
Shackleton 3/76, Leg 2
Shackleton 6/76
Shackleton 8/77
Shackleton 6/79, Leg 1
Shackleton 6/79, Leg 2

Data due to be lodged with World Data Centre:

Discovery 84
Discovery 90
Discovery 91
Discovery 93
Discovery 101
Discovery 103
Discovery 107
Discovery 109
Discovery 110
Discovery 111
Discovery 118
Discovery 123
Discovery 134

Starella 1/79

Farnella 2/81

APPENDIX E - Addresses for Data Sources

Acquisition of data or further information on the data summarised in this report may be obtained from the following:

1. For data already lodged with the World Data Centre:

World Data Centre A,
Marine Geology and Geophysics,
NOAA/EDIS (D-64),
325 Broadway,
Boulder,
Colorado 80303,
United States of America.

2. For unreleased data:

Cruise Principal Scientist (Appendix B) at,
Institute of Oceanographic Sciences,
Brook Road,
Wormley,
Godalming,
Surrey,
GU8 5UB,
United Kingdom.

3. For all other enquiries:

Marine Information and Advisory Service (MIAS),
Institute of Oceanographic Sciences,
Brook Road,
Wormley,
Godalming,
Surrey,
GU8 5UB,
United Kingdom.

4. Specific data enquiries:

Department of Marine Geology and Geophysics,
Institute of Oceanographic Sciences,
Brook Road,
Wormley,
Godalming,
Surrey,
GU8 5UB,
United Kingdom.

APPENDIX F - day number/date conversion

NON LEAP YEAR

| JAN | | FEB | | MAR | | APR | | MAY | | JUN | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 1 | 1 | 32 | 1 | 60 | 1 | 91 | 1 | 121 | 1 | 152 |
| 2 | 2 | 2 | 33 | 2 | 61 | 2 | 92 | 2 | 122 | 2 | 153 |
| 3 | 3 | 3 | 34 | 3 | 62 | 3 | 93 | 3 | 123 | 3 | 154 |
| 4 | 4 | 4 | 35 | 4 | 63 | 4 | 94 | 4 | 124 | 4 | 155 |
| 5 | 5 | 5 | 36 | 5 | 64 | 5 | 95 | 5 | 125 | 5 | 156 |
| 6 | 6 | 6 | 37 | 6 | 65 | 6 | 96 | 6 | 126 | 6 | 157 |
| 7 | 7 | 7 | 38 | 7 | 66 | 7 | 97 | 7 | 127 | 7 | 158 |
| 8 | 8 | 8 | 39 | 8 | 67 | 8 | 98 | 8 | 128 | 8 | 159 |
| 9 | 9 | 9 | 40 | 9 | 68 | 9 | 99 | 9 | 129 | 9 | 160 |
| 10 | 10 | 10 | 41 | 10 | 69 | 10 | 100 | 10 | 130 | 10 | 161 |
| 11 | 11 | 11 | 42 | 11 | 70 | 11 | 101 | 11 | 131 | 11 | 162 |
| 12 | 12 | 12 | 43 | 12 | 71 | 12 | 102 | 12 | 132 | 12 | 163 |
| 13 | 13 | 13 | 44 | 13 | 72 | 13 | 103 | 13 | 133 | 13 | 164 |
| 14 | 14 | 14 | 45 | 14 | 73 | 14 | 104 | 14 | 134 | 14 | 165 |
| 15 | 15 | 15 | 46 | 15 | 74 | 15 | 105 | 15 | 135 | 15 | 166 |
| 16 | 16 | 16 | 47 | 16 | 75 | 16 | 106 | 16 | 136 | 16 | 167 |
| 17 | 17 | 17 | 48 | 17 | 76 | 17 | 107 | 17 | 137 | 17 | 168 |
| 18 | 18 | 18 | 49 | 18 | 77 | 18 | 108 | 18 | 138 | 18 | 169 |
| 19 | 19 | 19 | 50 | 19 | 78 | 19 | 109 | 19 | 139 | 19 | 170 |
| 20 | 20 | 20 | 51 | 20 | 79 | 20 | 110 | 20 | 140 | 20 | 171 |
| 21 | 21 | 21 | 52 | 21 | 80 | 21 | 111 | 21 | 141 | 21 | 172 |
| 22 | 22 | 22 | 53 | 22 | 81 | 22 | 112 | 22 | 142 | 22 | 173 |
| 23 | 23 | 23 | 54 | 23 | 82 | 23 | 113 | 23 | 143 | 23 | 174 |
| 24 | 24 | 24 | 55 | 24 | 83 | 24 | 114 | 24 | 144 | 24 | 175 |
| 25 | 25 | 25 | 56 | 25 | 84 | 25 | 115 | 25 | 145 | 25 | 176 |
| 26 | 26 | 26 | 57 | 26 | 85 | 26 | 116 | 26 | 146 | 26 | 177 |
| 27 | 27 | 27 | 58 | 27 | 86 | 27 | 117 | 27 | 147 | 27 | 178 |
| 28 | 28 | 28 | 59 | 28 | 87 | 28 | 118 | 28 | 148 | 28 | 179 |
| 29 | 29 | | | 29 | 88 | 29 | 119 | 29 | 149 | 29 | 180 |
| 30 | 30 | | | 30 | 89 | 30 | 120 | 30 | 150 | 30 | 181 |
| 31 | 31 | | | 31 | 90 | | | 31 | 151 | | |
| | | | | | | | | | | | |
| JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
| 1 | 182 | 1 | 213 | 1 | 244 | 1 | 274 | 1 | 305 | 1 | 335 |
| 2 | 183 | 2 | 214 | 2 | 245 | 2 | 275 | 2 | 306 | 2 | 336 |
| 3 | 184 | 3 | 215 | 3 | 246 | 3 | 276 | 3 | 307 | 3 | 337 |
| 4 | 185 | 4 | 216 | 4 | 247 | 4 | 277 | 4 | 308 | 4 | 338 |
| 5 | 186 | 5 | 217 | 5 | 248 | 5 | 278 | 5 | 309 | 5 | 339 |
| 6 | 187 | 6 | 218 | 6 | 249 | 6 | 279 | 6 | 310 | 6 | 340 |
| 7 | 188 | 7 | 219 | 7 | 250 | 7 | 280 | 7 | 311 | 7 | 341 |
| 8 | 189 | 8 | 220 | 8 | 251 | 8 | 281 | 8 | 312 | 8 | 342 |
| 9 | 190 | 9 | 221 | 9 | 252 | 9 | 282 | 9 | 313 | 9 | 343 |
| 10 | 191 | 10 | 222 | 10 | 253 | 10 | 283 | 10 | 314 | 10 | 344 |
| 11 | 192 | 11 | 223 | 11 | 254 | 11 | 284 | 11 | 315 | 11 | 345 |
| 12 | 193 | 12 | 224 | 12 | 255 | 12 | 285 | 12 | 316 | 12 | 346 |
| 13 | 194 | 13 | 225 | 13 | 256 | 13 | 286 | 13 | 317 | 13 | 347 |
| 14 | 195 | 14 | 226 | 14 | 257 | 14 | 287 | 14 | 318 | 14 | 348 |
| 15 | 196 | 15 | 227 | 15 | 258 | 15 | 288 | 15 | 319 | 15 | 349 |
| 16 | 197 | 16 | 228 | 16 | 259 | 16 | 289 | 16 | 320 | 16 | 350 |
| 17 | 198 | 17 | 229 | 17 | 260 | 17 | 290 | 17 | 321 | 17 | 351 |
| 18 | 199 | 18 | 230 | 18 | 261 | 18 | 291 | 18 | 322 | 18 | 352 |
| 19 | 200 | 19 | 231 | 19 | 262 | 19 | 292 | 19 | 323 | 19 | 353 |
| 20 | 201 | 20 | 232 | 20 | 263 | 20 | 293 | 20 | 324 | 20 | 354 |
| 21 | 202 | 21 | 233 | 21 | 264 | 21 | 294 | 21 | 325 | 21 | 355 |
| 22 | 203 | 22 | 234 | 22 | 265 | 22 | 295 | 22 | 326 | 22 | 356 |
| 23 | 204 | 23 | 235 | 23 | 266 | 23 | 296 | 23 | 327 | 23 | 357 |
| 24 | 205 | 24 | 236 | 24 | 267 | 24 | 297 | 24 | 328 | 24 | 358 |
| 25 | 206 | 25 | 237 | 25 | 268 | 25 | 298 | 25 | 329 | 25 | 359 |
| 26 | 207 | 26 | 238 | 26 | 269 | 26 | 299 | 26 | 330 | 26 | 360 |
| 27 | 208 | 27 | 239 | 27 | 270 | 27 | 300 | 27 | 331 | 27 | 361 |
| 28 | 209 | 28 | 240 | 28 | 271 | 28 | 301 | 28 | 332 | 28 | 362 |
| 29 | 210 | 29 | 241 | 29 | 272 | 29 | 302 | 29 | 333 | 29 | 363 |
| 30 | 211 | 30 | 242 | 30 | 273 | 30 | 303 | 30 | 334 | 30 | 364 |
| 31 | 212 | 31 | 243 | | | 31 | 304 | | | 31 | 365 |

LEAP YEAR

| JAN | | FEB | | MAR | | APR | | MAY | | JUN | |
|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|
| 1 | 1 | 1 | 32 | 1 | 61 | 1 | 92 | 1 | 122 | 1 | 153 |
| 2 | 2 | 2 | 33 | 2 | 62 | 2 | 93 | 2 | 123 | 2 | 154 |
| 3 | 3 | 3 | 34 | 3 | 63 | 3 | 94 | 3 | 124 | 3 | 155 |
| 4 | 4 | 4 | 35 | 4 | 64 | 4 | 95 | 4 | 125 | 4 | 156 |
| 5 | 5 | 5 | 36 | 5 | 65 | 5 | 96 | 5 | 126 | 5 | 157 |
| 6 | 6 | 6 | 37 | 6 | 66 | 6 | 97 | 6 | 127 | 6 | 158 |
| 7 | 7 | 7 | 38 | 7 | 67 | 7 | 98 | 7 | 128 | 7 | 159 |
| 8 | 8 | 8 | 39 | 8 | 68 | 8 | 99 | 8 | 129 | 8 | 160 |
| 9 | 9 | 9 | 40 | 9 | 69 | 9 | 100 | 9 | 130 | 9 | 161 |
| 10 | 10 | 10 | 41 | 10 | 70 | 10 | 101 | 10 | 131 | 10 | 162 |
| 11 | 11 | 11 | 42 | 11 | 71 | 11 | 102 | 11 | 132 | 11 | 163 |
| 12 | 12 | 12 | 43 | 12 | 72 | 12 | 103 | 12 | 133 | 12 | 164 |
| 13 | 13 | 13 | 44 | 13 | 73 | 13 | 104 | 13 | 134 | 13 | 165 |
| 14 | 14 | 14 | 45 | 14 | 74 | 14 | 105 | 14 | 135 | 14 | 166 |
| 15 | 15 | 15 | 46 | 15 | 75 | 15 | 106 | 15 | 136 | 15 | 167 |
| 16 | 16 | 16 | 47 | 16 | 76 | 16 | 107 | 16 | 137 | 16 | 168 |
| 17 | 17 | 17 | 48 | 17 | 77 | 17 | 108 | 17 | 138 | 17 | 169 |
| 18 | 18 | 18 | 49 | 18 | 78 | 18 | 109 | 18 | 139 | 18 | 170 |
| 19 | 19 | 19 | 50 | 19 | 79 | 19 | 110 | 19 | 140 | 19 | 171 |
| 20 | 20 | 20 | 51 | 20 | 80 | 20 | 111 | 20 | 141 | 20 | 172 |
| 21 | 21 | 21 | 52 | 21 | 81 | 21 | 112 | 21 | 142 | 21 | 173 |
| 22 | 22 | 22 | 53 | 22 | 82 | 22 | 113 | 22 | 143 | 22 | 174 |
| 23 | 23 | 23 | 54 | 23 | 83 | 23 | 114 | 23 | 144 | 23 | 175 |
| 24 | 24 | 24 | 55 | 24 | 84 | 24 | 115 | 24 | 145 | 24 | 176 |
| 25 | 25 | 25 | 56 | 25 | 85 | 25 | 116 | 25 | 146 | 25 | 177 |
| 26 | 26 | 26 | 57 | 26 | 86 | 26 | 117 | 26 | 147 | 26 | 178 |
| 27 | 27 | 27 | 58 | 27 | 87 | 27 | 118 | 27 | 148 | 27 | 179 |
| 28 | 28 | 28 | 59 | 28 | 88 | 28 | 119 | 28 | 149 | 28 | 180 |
| 29 | 29 | 29 | 60 | 29 | 89 | 29 | 120 | 29 | 150 | 29 | 181 |
| 30 | 30 | | | 30 | 90 | 30 | 121 | 30 | 151 | 30 | 182 |
| 31 | 31 | | | 31 | 91 | | | 31 | 152 | | |

| JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 183 | 1 | 214 | 1 | 245 | 1 | 275 | 1 | 306 | 1 | 336 |
| 2 | 184 | 2 | 215 | 2 | 246 | 2 | 276 | 2 | 307 | 2 | 337 |
| 3 | 185 | 3 | 216 | 3 | 247 | 3 | 277 | 3 | 308 | 3 | 338 |
| 4 | 186 | 4 | 217 | 4 | 248 | 4 | 278 | 4 | 309 | 4 | 339 |
| 5 | 187 | 5 | 218 | 5 | 249 | 5 | 279 | 5 | 310 | 5 | 340 |
| 6 | 188 | 6 | 219 | 6 | 250 | 6 | 280 | 6 | 311 | 6 | 341 |
| 7 | 189 | 7 | 220 | 7 | 251 | 7 | 281 | 7 | 312 | 7 | 342 |
| 8 | 190 | 8 | 221 | 8 | 252 | 8 | 282 | 8 | 313 | 8 | 343 |
| 9 | 191 | 9 | 222 | 9 | 253 | 9 | 283 | 9 | 314 | 9 | 344 |
| 10 | 192 | 10 | 223 | 10 | 254 | 10 | 284 | 10 | 315 | 10 | 345 |
| 11 | 193 | 11 | 224 | 11 | 255 | 11 | 285 | 11 | 316 | 11 | 346 |
| 12 | 194 | 12 | 225 | 12 | 256 | 12 | 286 | 12 | 317 | 12 | 347 |
| 13 | 195 | 13 | 226 | 13 | 257 | 13 | 287 | 13 | 318 | 13 | 348 |
| 14 | 196 | 14 | 227 | 14 | 258 | 14 | 288 | 14 | 319 | 14 | 349 |
| 15 | 197 | 15 | 228 | 15 | 259 | 15 | 289 | 15 | 320 | 15 | 350 |
| 16 | 198 | 16 | 229 | 16 | 260 | 16 | 290 | 16 | 321 | 16 | 351 |
| 17 | 199 | 17 | 230 | 17 | 261 | 17 | 291 | 17 | 322 | 17 | 352 |
| 18 | 200 | 18 | 231 | 18 | 262 | 18 | 292 | 18 | 323 | 18 | 353 |
| 19 | 201 | 19 | 232 | 19 | 263 | 19 | 293 | 19 | 324 | 19 | 354 |
| 20 | 202 | 20 | 233 | 20 | 264 | 20 | 294 | 20 | 325 | 20 | 355 |
| 21 | 203 | 21 | 234 | 21 | 265 | 21 | 295 | 21 | 326 | 21 | 356 |
| 22 | 204 | 22 | 235 | 22 | 266 | 22 | 296 | 22 | 327 | 22 | 357 |
| 23 | 205 | 23 | 236 | 23 | 267 | 23 | 297 | 23 | 328 | 23 | 358 |
| 24 | 206 | 24 | 237 | 24 | 268 | 24 | 298 | 24 | 329 | 24 | 359 |
| 25 | 207 | 25 | 238 | 25 | 269 | 25 | 299 | 25 | 330 | 25 | 360 |
| 26 | 208 | 26 | 239 | 26 | 270 | 26 | 300 | 26 | 331 | 26 | 361 |
| 27 | 209 | 27 | 240 | 27 | 271 | 27 | 301 | 27 | 332 | 27 | 362 |
| 28 | 210 | 28 | 241 | 28 | 272 | 28 | 302 | 28 | 333 | 28 | 363 |
| 29 | 211 | 29 | 242 | 29 | 273 | 29 | 303 | 29 | 334 | 29 | 364 |
| 30 | 212 | 30 | 243 | 30 | 274 | 30 | 304 | 30 | 335 | 30 | 365 |
| 31 | 213 | 31 | 244 | | | 31 | 305 | | | 31 | 366 |