GM 312 FILE

INTERNAL DOCUMENT 224

I.O.S.

# Summary of IOS Underway Geophysical data held on magnetic tape

S. Drake

Internal Document No. 224

January 1985

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Wormley, Godalming,
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(Director: Dr. A. S. Laughton, FRS)

Bidston Observatory,
Birkenhead,
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(051-653-8633)
(Assistant Director: Dr. D. E. Cartwright)

Crossway,
Taunton,
Somerset TA1 2DW
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(Assistant Director: M. J. Tucker)

# Summary of IOS Underway Geophysical data held on magnetic tape

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Institute of Oceanographic Sciences,
Brook Road,
WORMLEY,
Nr. Godalming,
Surrey GU8 5UB

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## INTRODUCTION

This document 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. The data are held on magnetic tape in a data library currently accessed through the Natural Environment Research Council Honeywell 66 computer. Some proprietary data are not currently available. Full details of the availability of each cruise are included in the appendices. Data collected prior to 1973 are not held in the IOS tape library and are excluded from this report.

The cruises are listed in chronological order for each vessel, and described by:-

a) a title sheet including a summary of data in each five degree square covered by the cruise (see appendix A).

b) a track chart annotated with day numbers

The title sheet details general cruise information of use for indexing into outside data inventories. The track chart and data summary together summarise profile locations and orientations for each of the parameters - bathymetry, magnetics and gravity.

The Appendices contain full references to the published cruise reports of each listed entry together with the Unpublished Data Reports which were compiled for several of the major IOS cruises upto 1981. These data are now distributed to the international scientific community through the World Data Centre. Full information is given in appendices D and E.

Discovery Cruise 54 Leg 1

Magtapes:-

Original copy - 70340 LOC-BID Owner-SHIP Old#M579 556bpi EVPARITY 5F.
MGG copy - 90173 Density 1600bpi NLABEL File 1
Archive copy - MGG 1441

Total records - 16279
Bathymetry - 4847
Magnetics - 13101
Gravity - 0

P.S.O. - Laughton

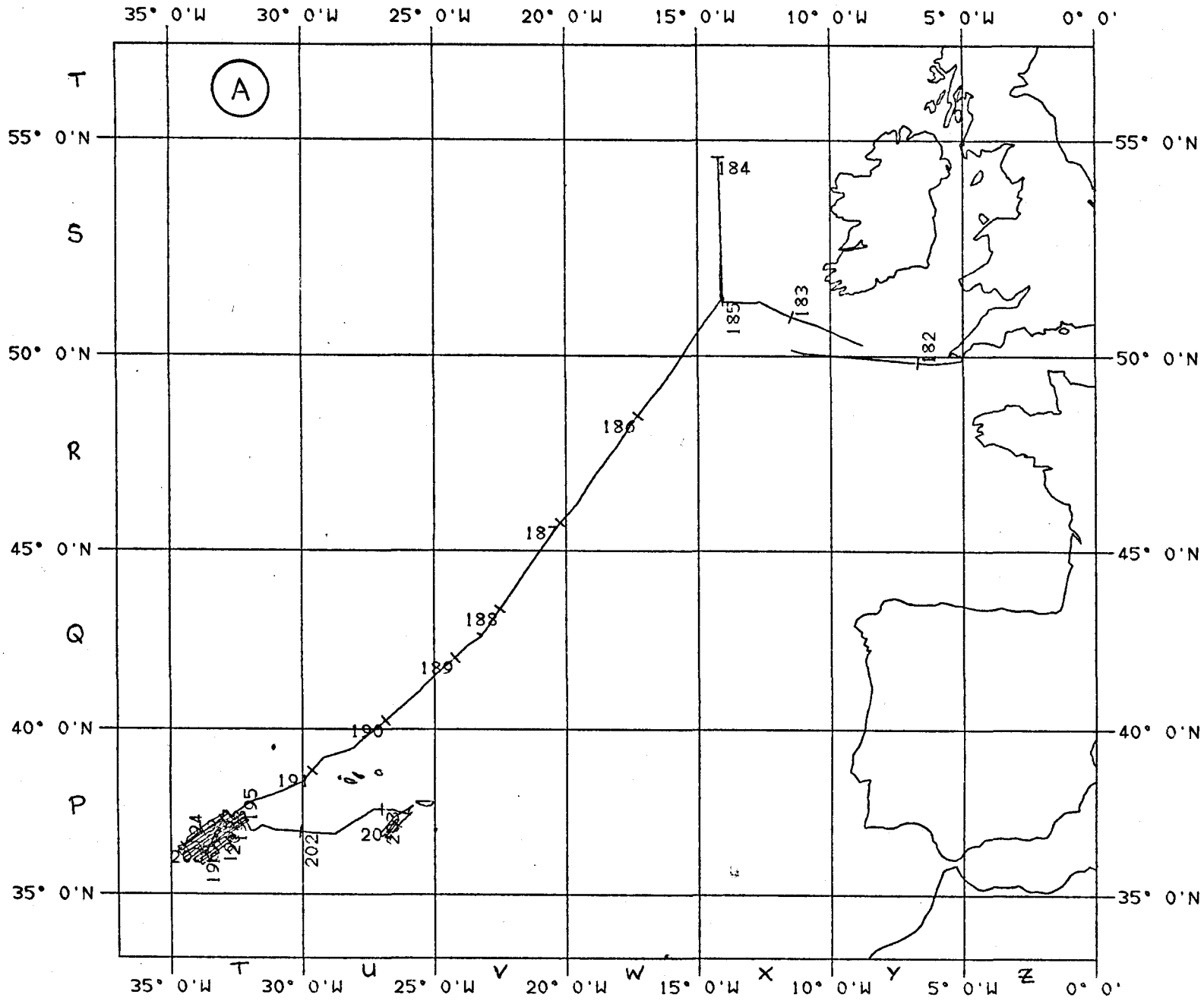
Start Port - Southampton
End Port - Azores

Data Starts - 1756z 30-Jun-73
Data Ends - 0832z 23-Jul-73

Latitude minimum - 35.8N
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 |
| AUP | 771 | 2232 | 0 |
| AUQ | 204 | 607 | 0 |
| AVQ | 449 | 1152 | 0 |
| AVR | 89 | 284 | 0 |
| AWR | 321 | 961 | 0 |
| AWS | 39 | 115 | 0 |
| AXS | 416 | 464 | 0 |
| Total | 4847 | 13101 | 0 |




DISCOVERY 54 LEG 1

Discovery Cruise 54 Leg 2

Magtapes:-

Original copy - 70339 LOC-BID Owner-SHIP Old#M835 13905recs 5 files
MGG copy - 90173 Density 1600bpi NLABEL File 2
Archive copy - MGG 1440

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

P.S.O. - Laughton

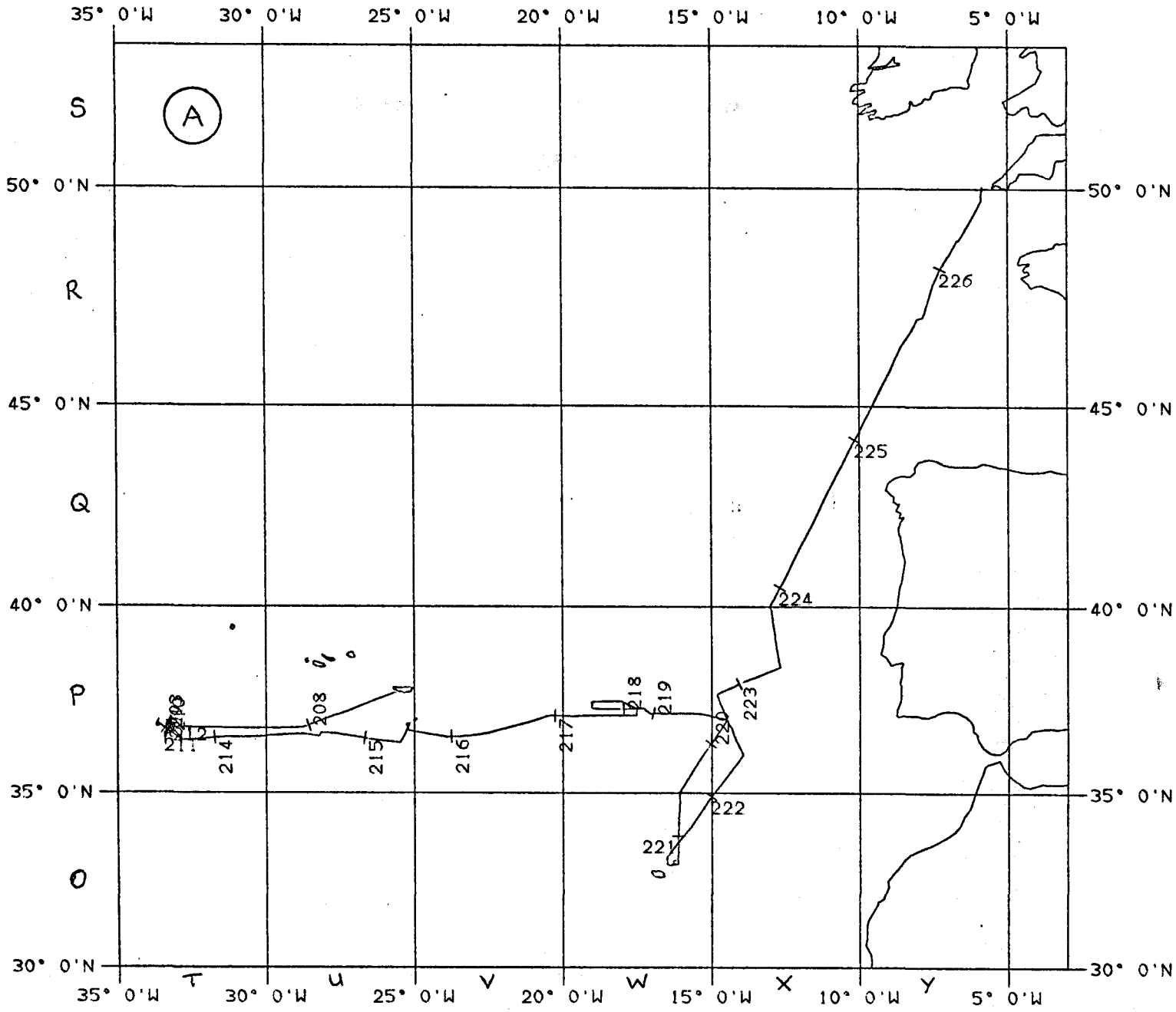
Start Port - Azores
End Port - Barry

Data Starts - 1112z 26-Jul-73
Data Ends - 1156z 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 |
| AUP | 454 | 1357 | 0 |
| AVP | 333 | 1034 | 0 |
| AWO | 320 | 915 | 0 |
| AWP | 736 | 2213 | 0 |
| AXO | 6 | 19 | 0 |
| AXP | 530 | 1598 | 0 |
| AXQ | 236 | 865 | 0 |
| AYQ | 29 | 112 | 0 |
| AYR | 133 | 327 | 0 |
| Total | 3709 | 9342 | 0 |




DISCOVERY 54 LEG 2

Discovery Cruise 60

Magtapes:-

Original copy - 70328 LOC-BID Owner-SHIP System Dump CDAT
MGG copy - 90173 Density 1600bpi NLABEL File 3
Archive copy - MGG 1439

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

P.S.O. - Roberts

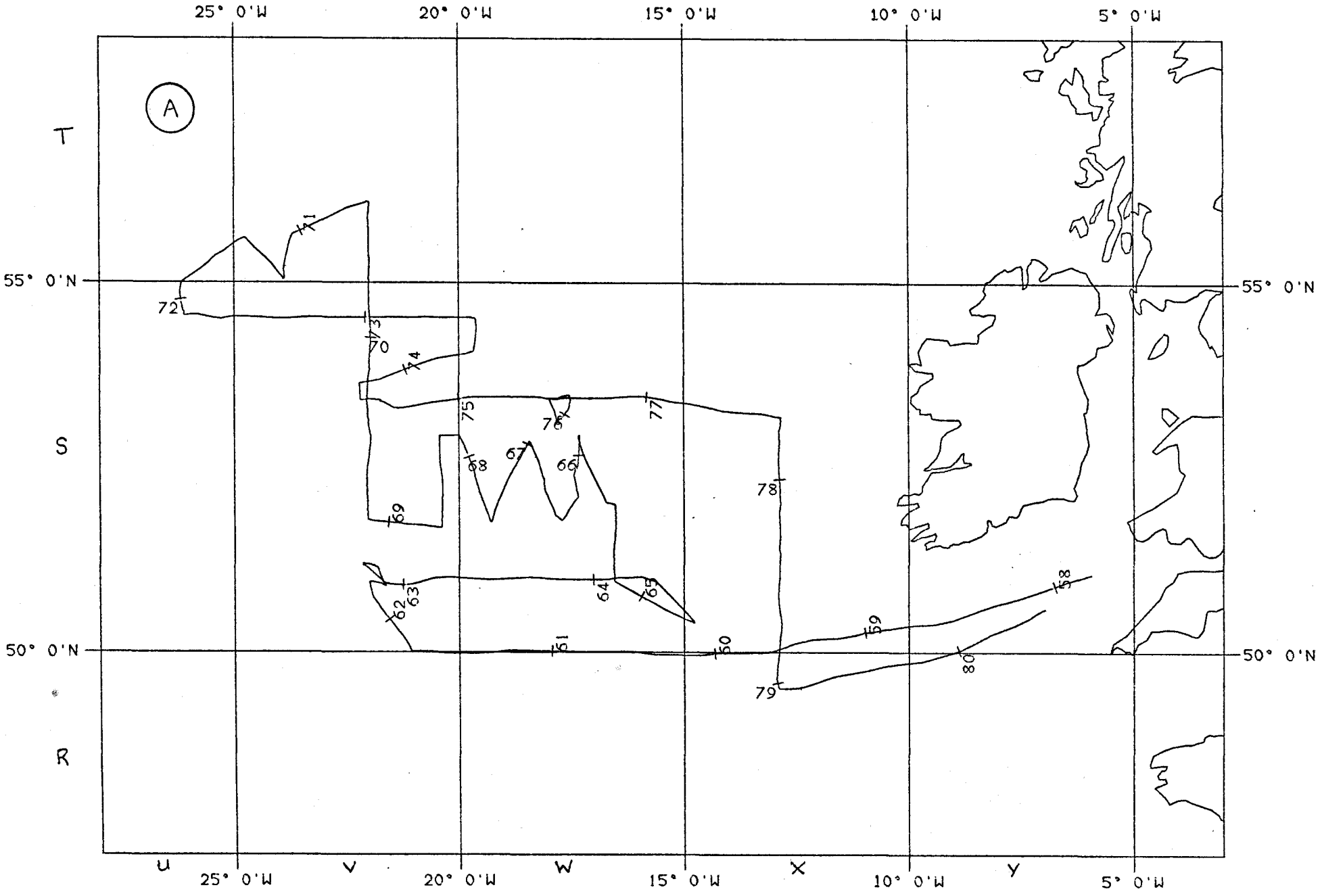
Start Port - Barry
End Port - Barry

Data Starts - 2102z 26-Feb-74
Data Ends - 0954z 21-Mar-74

Latitude minimum - 49.4N
Latitude maximum - 56.1N
Longitude minimum - 26.3W
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 | 1651 | 861 | 0 |
| AXR | 341 | 628 | 0 |
| AXS | 632 | 1182 | 0 |
| AYR | 56 | 171 | 0 |
| AYS | 276 | 322 | 0 |
| Total | 4973 | 3383 | 0 |




DISCOVERY 60

Discovery Cruise 68 Leg 2

Magtapes:-

Original copy - 70396 LOC-BID Owner-SHIP System Dump CDAT
MGG copy - 90178 Density 1600bpi NLABEL File 1
Archive copy - MGG 1438

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

P.S.O. - Laughton

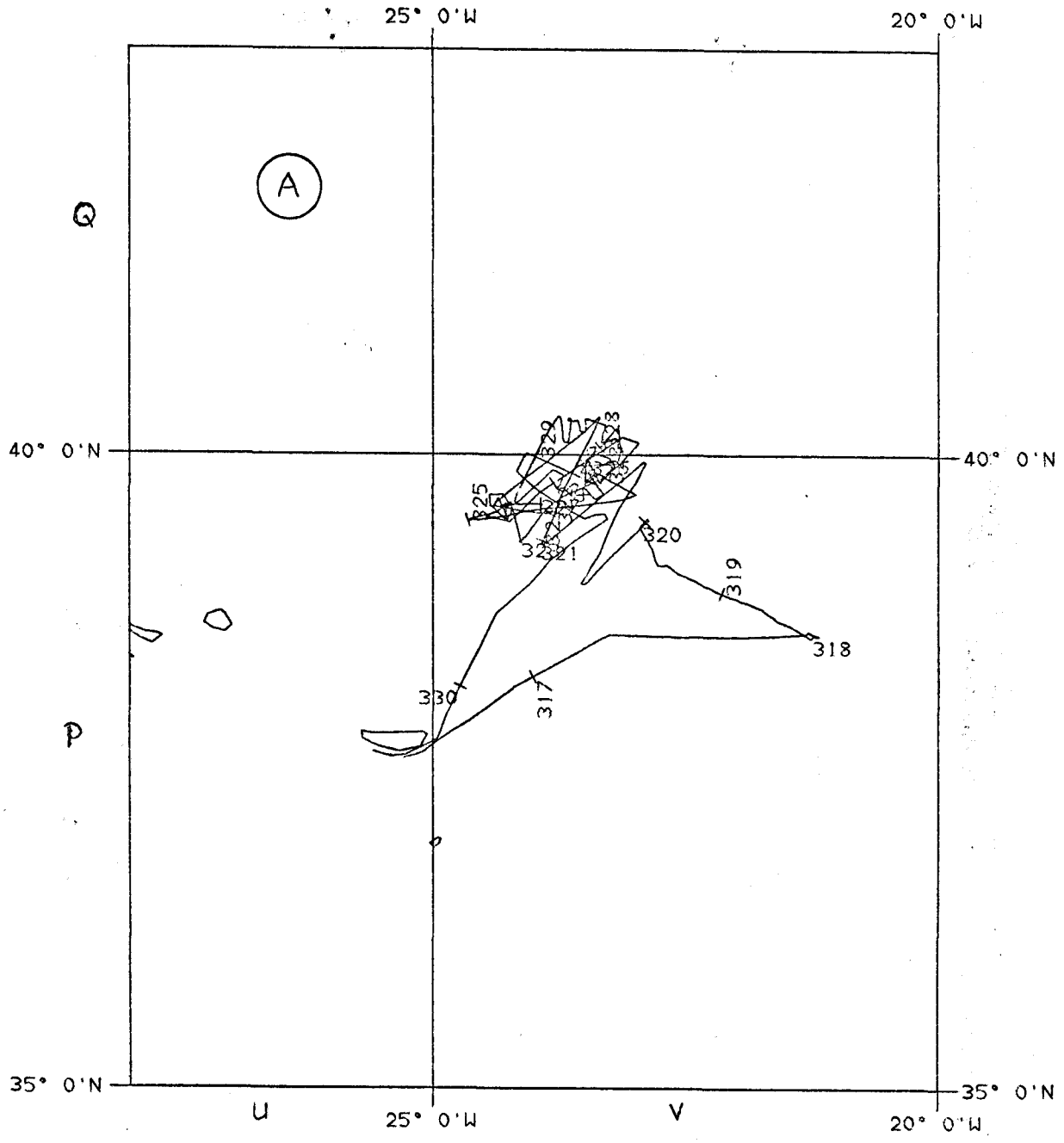
Start Port - Azores
End Port - Azores

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 | 6 | 8 | 0 |
| AVP | 4800 | 4901 | 0 |
| AVQ | 760 | 795 | 0 |
| Total | 5566 | 5704 | 0 |




DISCOVERY 68 LEG 2

Discovery Cruise 73 Leg 1

Magtapes:-

Original copy - 91334 LOC-BID Owner-SHIP DPG/ST/2/3
MGG copy - 90178 Density 1600bpi NLABEL File 2
Archive copy - MGG 1469

Total records - 19868
Bathymetry - 9079
Magnetics - 18131
Gravity - 0

P.S.O. - Laughton

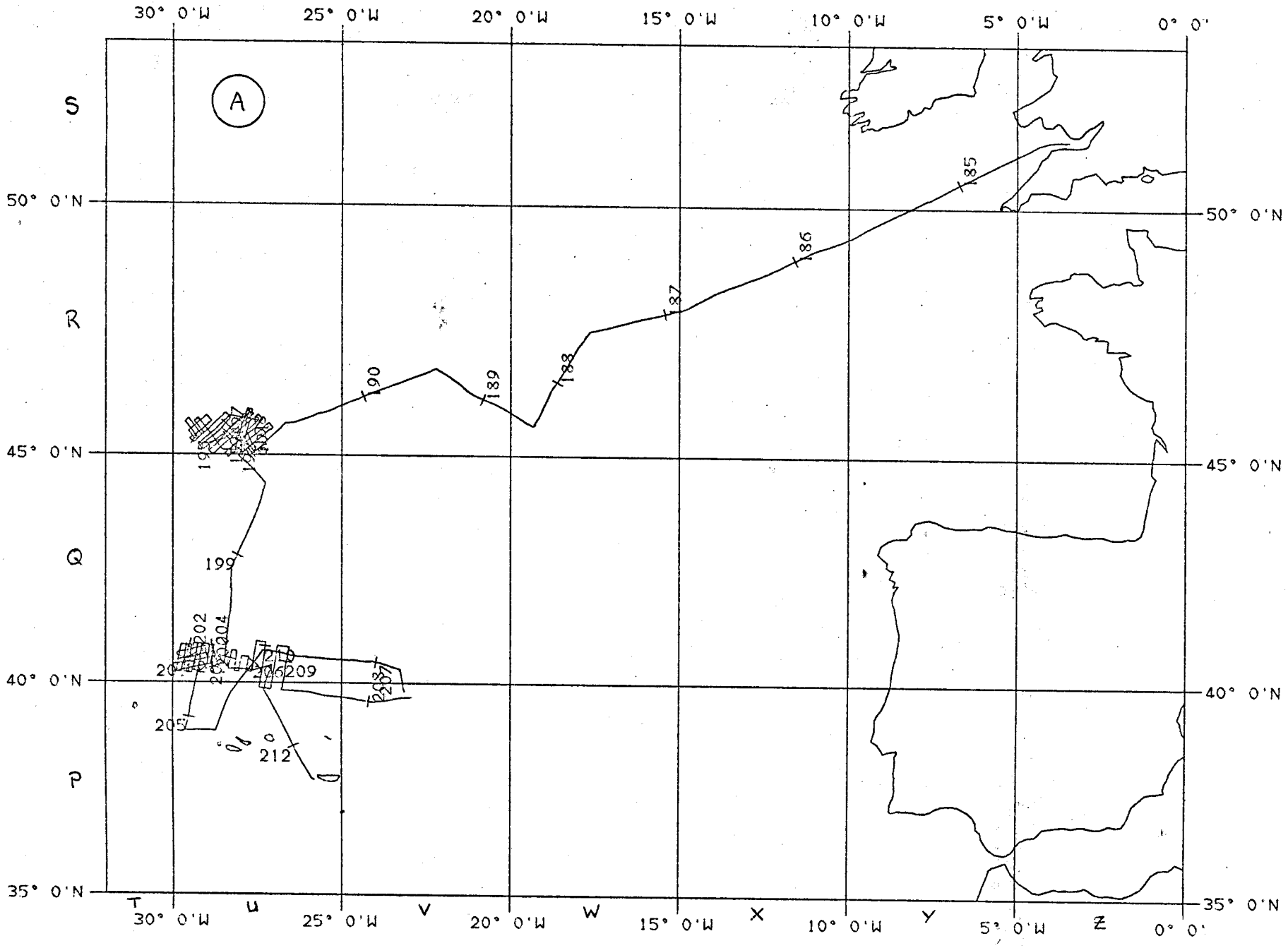
Start Port - Barry
End Port - Azores

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

Latitude minimum - 37.8N
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 | 28 | 28 | 0 |
| AUP | 591 | 1776 | 0 |
| AUQ | 4916 | 7291 | 172 |
| AUR | 1878 | 5231 | 0 |
| AVP | 196 | 461 | 53 |
| AVQ | 419 | 419 | 419 |
| AVR | 338 | 1014 | 0 |
| AWR | 413 | 1147 | 0 |
| AXR | 298 | 764 | 0 |
| AYR | 2 | 0 | 0 |
| Total | 9079 | 18131 | 644 |




DISCOVERY 73 LEG 1

Discovery Cruise 73 Leg 2

Magtapes:-

Original copy - 91333 LOC-3ID Owner-SHIP DPG/ST/2/3
MGG copy - 90178 Density 1600bpi NLABEL File 3
Archive copy - MGG 1468

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

P.S.O. - Laughton

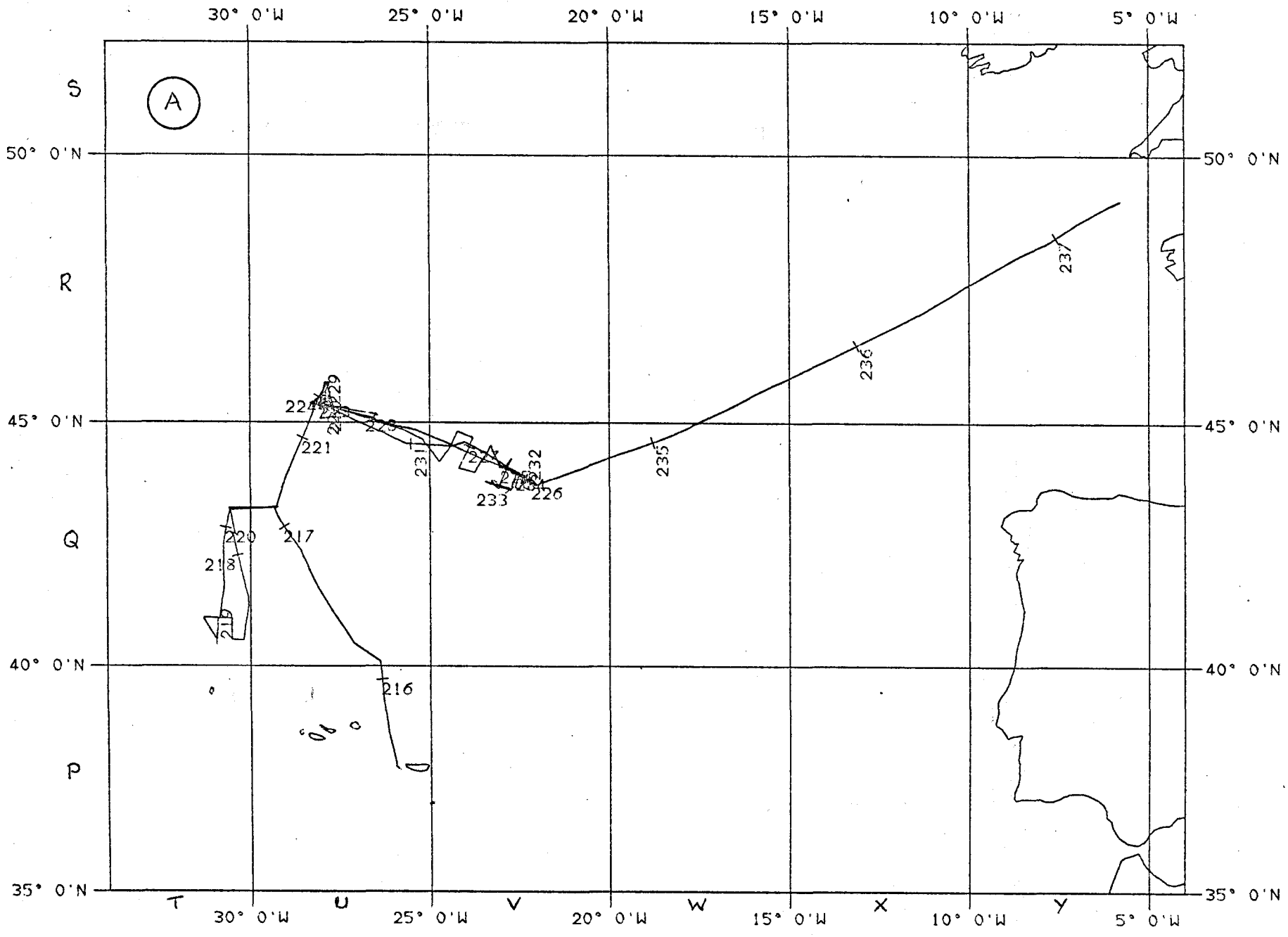
Start Port - Azores
End Port - Southampton

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 | 671 | 1620 | 0 |
| AUP | 142 | 368 | 0 |
| AUQ | 760 | 1787 | 0 |
| AUR | 1760 | 897 | 0 |
| AVQ | 1665 | 3009 | 67 |
| AWQ | 99 | 327 | 0 |
| AWR | 107 | 319 | 0 |
| AXQ | 35 | 0 | 0 |
| AXR | 215 | 645 | 0 |
| AYR | 66 | 201 | 0 |
| Total | 5520 | 9173 | 67 |




DISCOVERY 73 LEG 2

Discovery Cruise 74 Leg 2

Magtapes:-

Original copy - BY017 LOC-BID Owner-SHIP Ship Dump
MGG copy - 90313 Density 1600bpi NLABEL File 1
Archive copy - MGG 1470

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

P.S.O. - Roberts

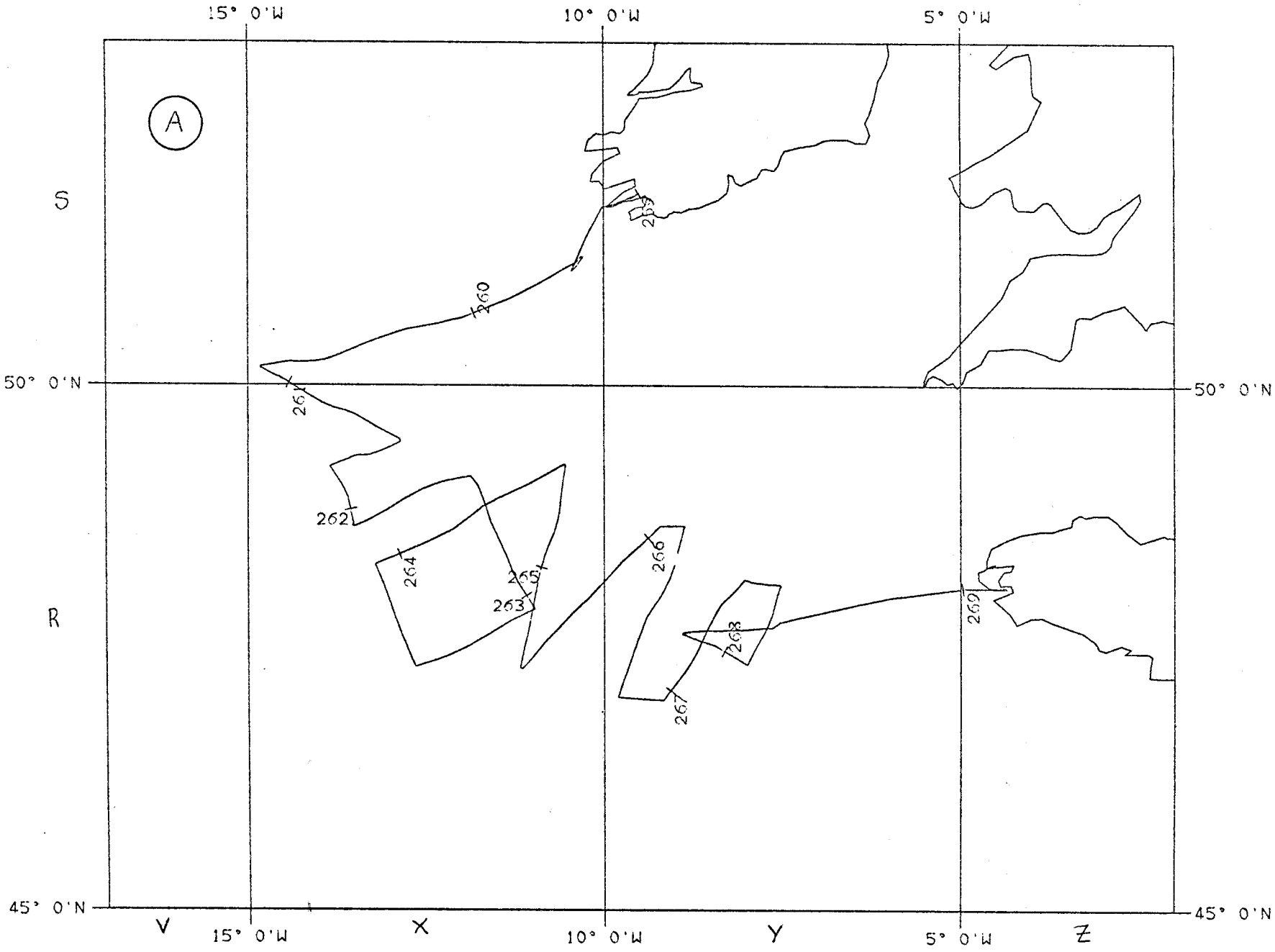
Start Port - Bantry Bay
End Port - Brest

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 - 70690 LOC-BID Owner-PRM Old#M840 Ship Dump (CDAT)
MGG copy - 90313 Density 1600bpi NLABEL File 2
Archive copy - MGG 1466

Total records - 12915
Bathymetry - 7595
Magnetics - 9945
Gravity - 8460

P.S.O. - Laughton

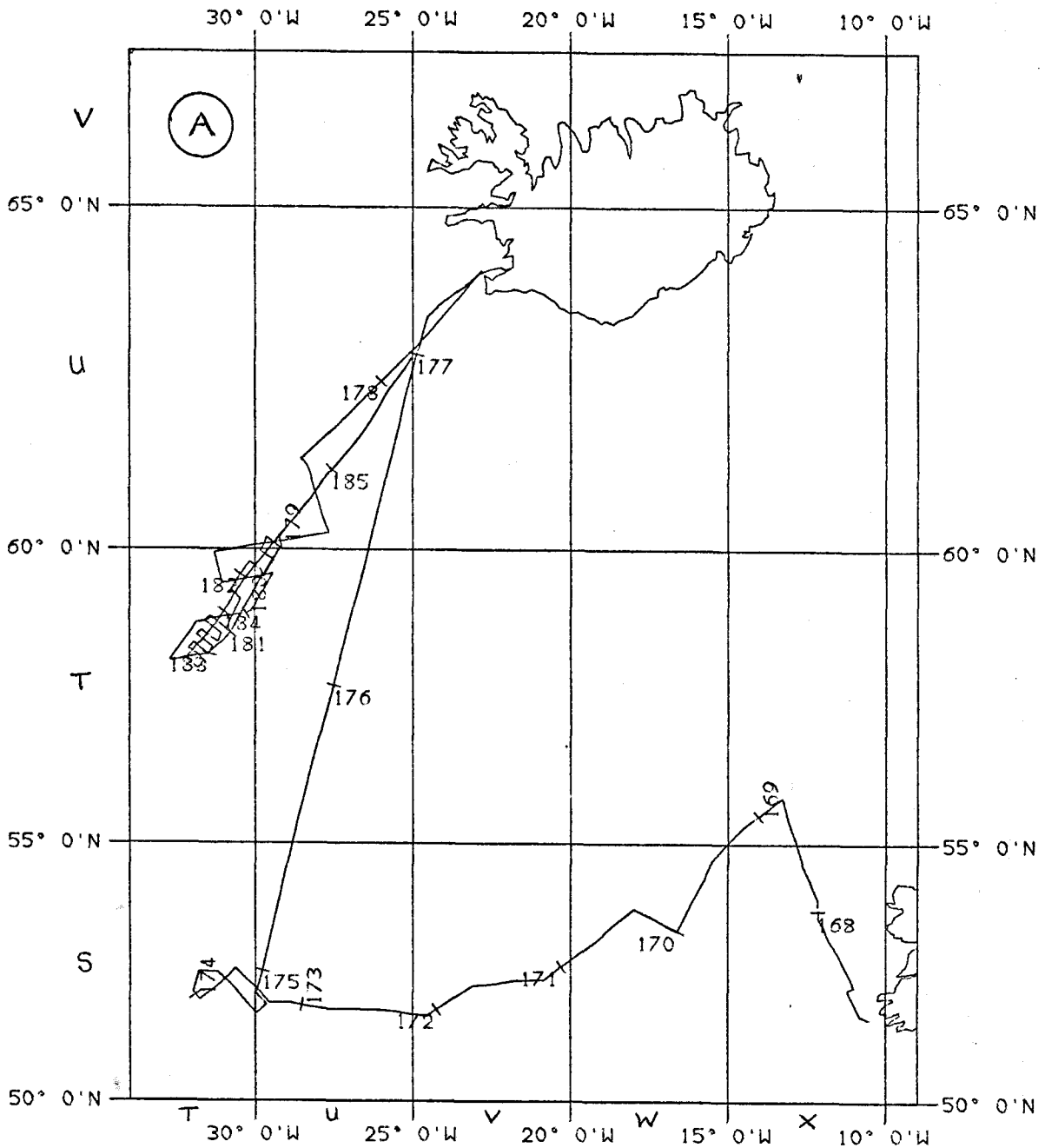
Start Port - Barry
End Port - Reykjavik

Data Starts - 0356z 16-Jun-77
Data Ends - 1410z 04-Jul-75

Latitude minimum - 51.6N
Latitude maximum - 64.2N
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 | 841 |
| ATT | 3008 | 2922 | 2854 |
| ATU | 70 | 76 | 75 |
| AUS | 565 | 1370 | 1031 |
| AUT | 810 | 1252 | 1144 |
| AUU | 1277 | 877 | 2078 |
| AVS | 305 | 900 | 0 |
| AVU | 9 | 0 | 437 |
| AWS | 378 | 1098 | 0 |
| AWT | 5 | 12 | 0 |
| AXS | 183 | 0 | 0 |
| AXT | 192 | 535 | 0 |
| Total | 7595 | 9945 | 8460 |




DISCOVERY 84 LEG 1

Discovery Cruise 84 Leg 2

Magtapes:-

Original copy - 70691 LOC-BID Owner-PRM Old#M840 Ship Dump (CDAT)
MGG copy - 90313 Density 1600bpi NLABEL File 3
Archive copy - MGG 1467

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

P.S.O. - Laughton

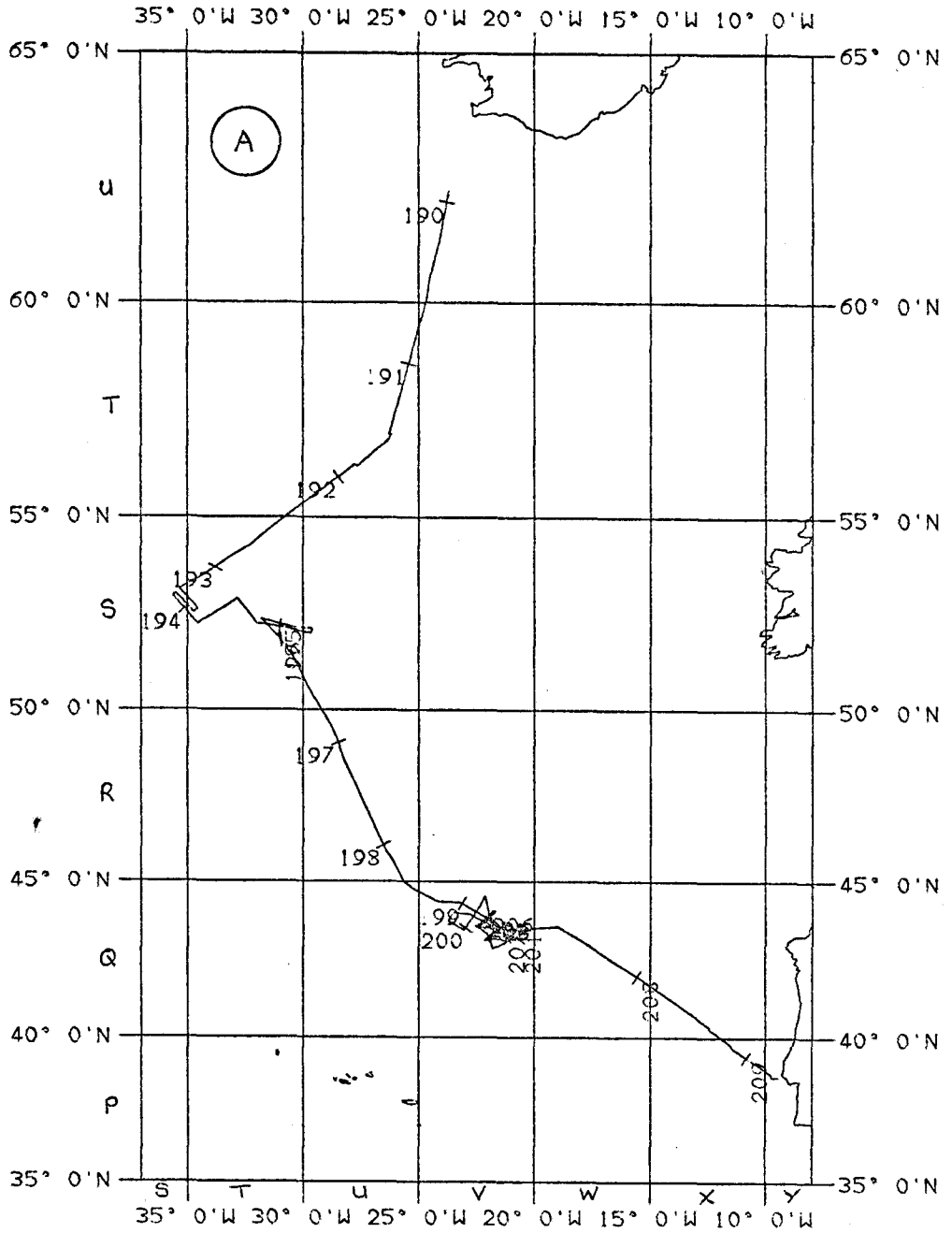
Start Port - Reykjavik
End Port - Lisbon

Data Starts - 2232z 08-Jul-77
Data Ends - 0640z 28-Jul-75

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

Distribution of data for Discovery Cruise 84 Leg 2:-

| Geographical Area Code | B | M | G |
|---|---|---|---|
| ATS | 1818 | 2296 | 2243 |
| ATT | 31 | 92 | 85 |
| AUQ | 42 | 126 | 124 |
| AUR | 403 | 1206 | 1167 |
| AUS | 215 | 363 | 331 |
| AUT | 357 | 484 | 1053 |
| AVQ | 2293 | 2573 | 5866 |
| AVT | 37 | 0 | 104 |
| AVU | 108 | 0 | 457 |
| AWQ | 203 | 645 | 614 |
| AXP | 92 | 57 | 298 |
| AXQ | 151 | 459 | 433 |
| AYP | 17 | 0 | 54 |
| Total | 6097 | 8673 | 13190 |




DISCOVERY 84 LEG 2

Discovery Cruise 90 Leg 1

Magtapes:-

Original copy - 92181 LOC-BID Owner-SHIP DPG/ST/2/3 ASA9 DEN16
Longitudes stored as West not East at beginning of cruise. 31st January stored as 0th February. *****'s in Magnetic Anomaly and FAA. Navigation in error 1018z-1600z 31/1/78. All above errors corrected on merge-merge version.
MGG copy - 90328 Density 1600bpi NLABEL File 1
Archive copy - MGG 1472

Total records - 12459
Bathymetry - 3900
Magnetics - 7750
Gravity - 8890

P.S.O. - Roberts

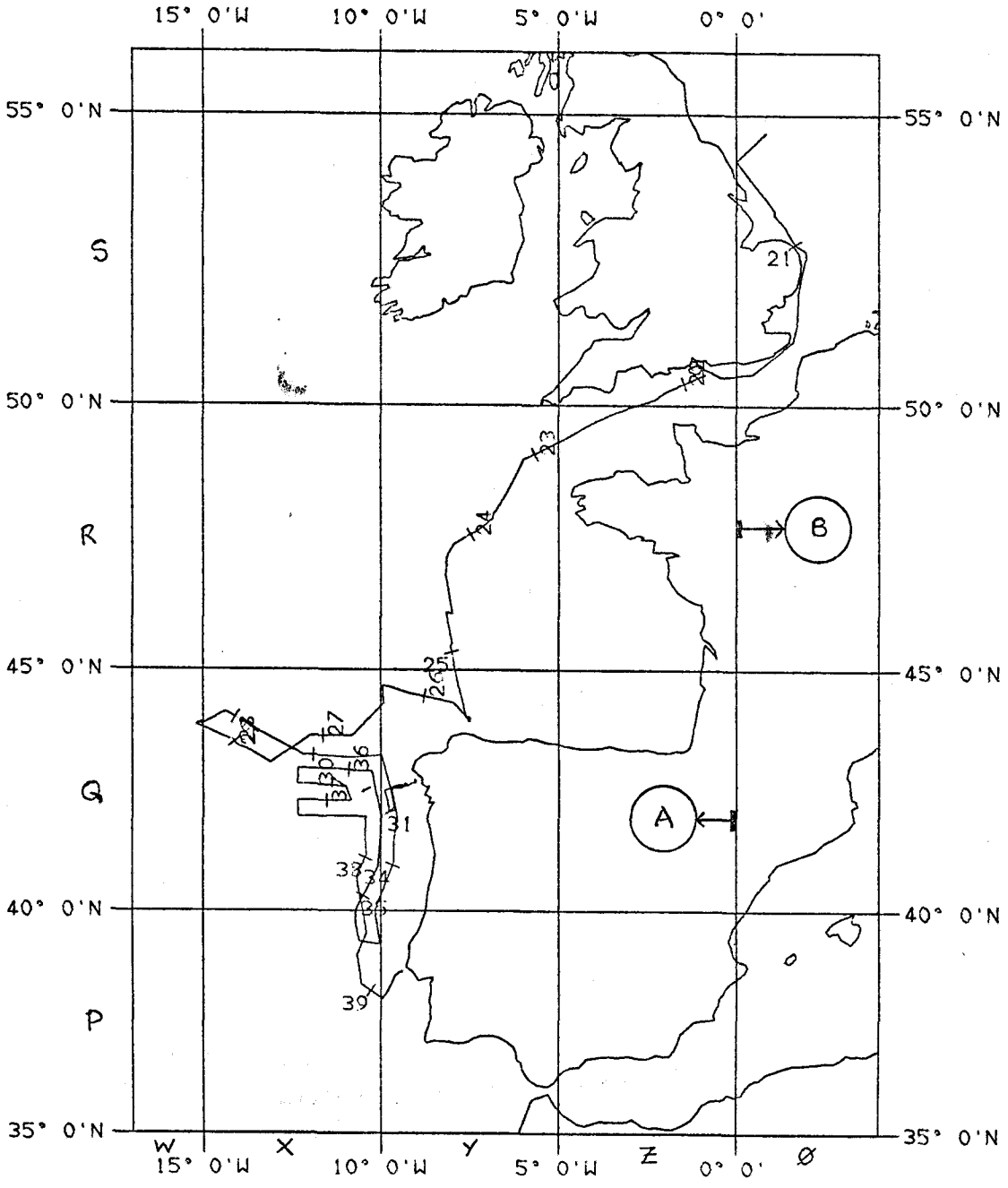
Start Port - South Shields
End Port - Lisbon

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 | B | M | G |
|---|---|---|---|
| AWQ | 40 | 0 | 74 |
| AXP | 304 | 888 | 906 |
| AXQ | 1762 | 4349 | 5125 |
| AYP | 51 | 153 | 192 |
| AYQ | 714 | 2067 | 2211 |
| AYR | 537 | 293 | 382 |
| AZR | 126 | 0 | 0 |
| AZS | 109 | 0 | 0 |
| BOS | 257 | 0 | 0 |
| Total | 3900 | 7750 | 8890 |




DISCOVERY 90 LEG 1

Discovery Cruise 90 Leg 2

Magtapes:-

Original copy - 92183 LOC-BID Owner-SHIP DPG/ST/2/3 ASA9 DEN16
28th February stored as 0th March, corrected on
mm version.
MGG copy - 90328 Density 1600bpi NLABEL File 2
Archive copy - MGG 1473

Total records - 12610
Bathymetry - 4133
Magnetics - 11565
Gravity - 12182

P.S.O. - Roberts

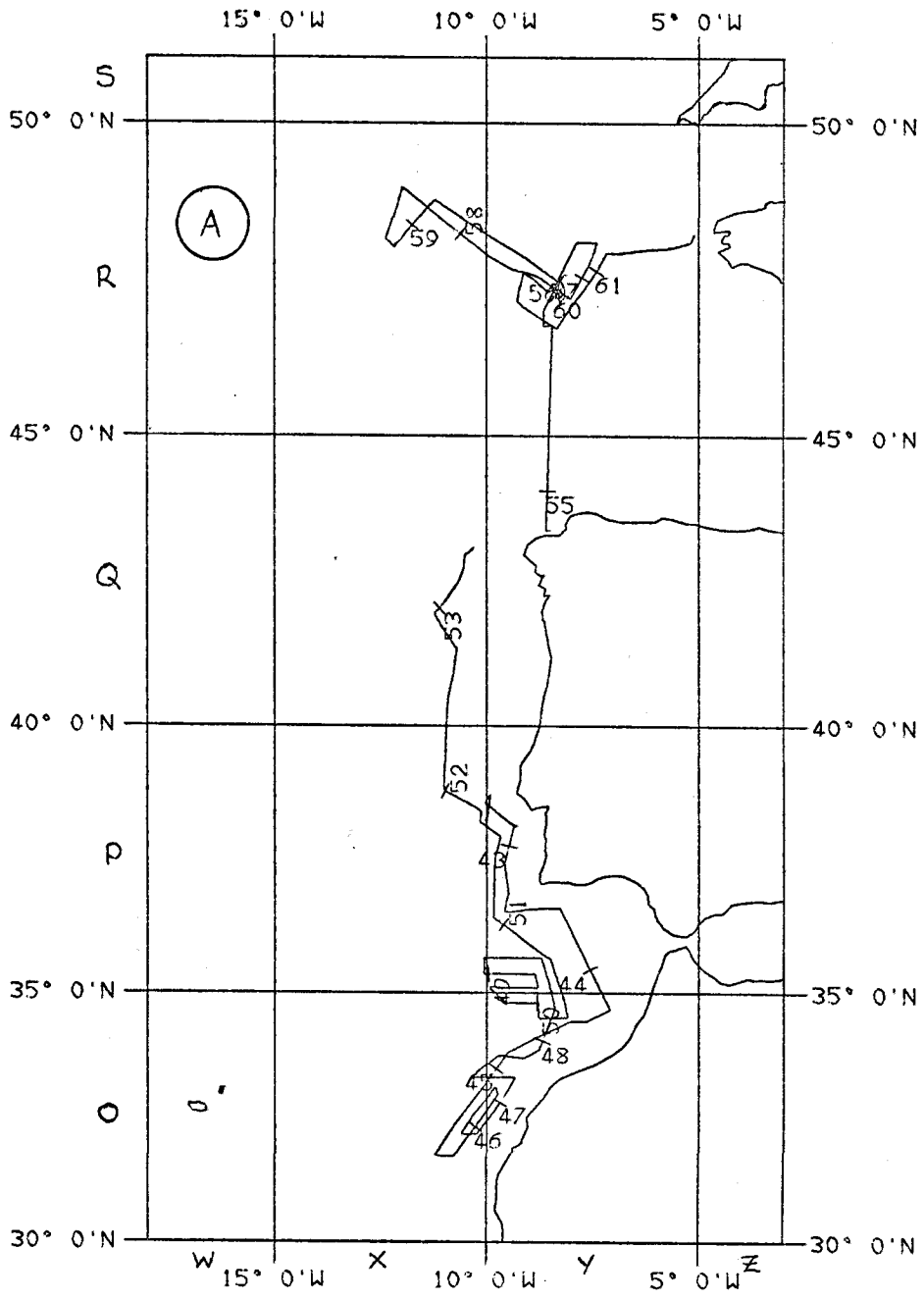
Start Port - Lisbon
End Port - Brest

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 | 960 | 2865 | 2861 |
| AYQ | 68 | 215 | 224 |
| AYR | 1089 | 3037 | 3388 |
| Total | 4133 | 11565 | 12182 |




DISCOVERY 90 LEG 2

Discovery Cruise 91

Magtapes:-

Original copy - 92101 LOC-BID Owner-SHIP DPG/ST/2/3 Original
MGG copy - 90328 Density 1600bpi NLABEL File 3
Archive copy - MGG 1474

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

P.S.O. - Searle

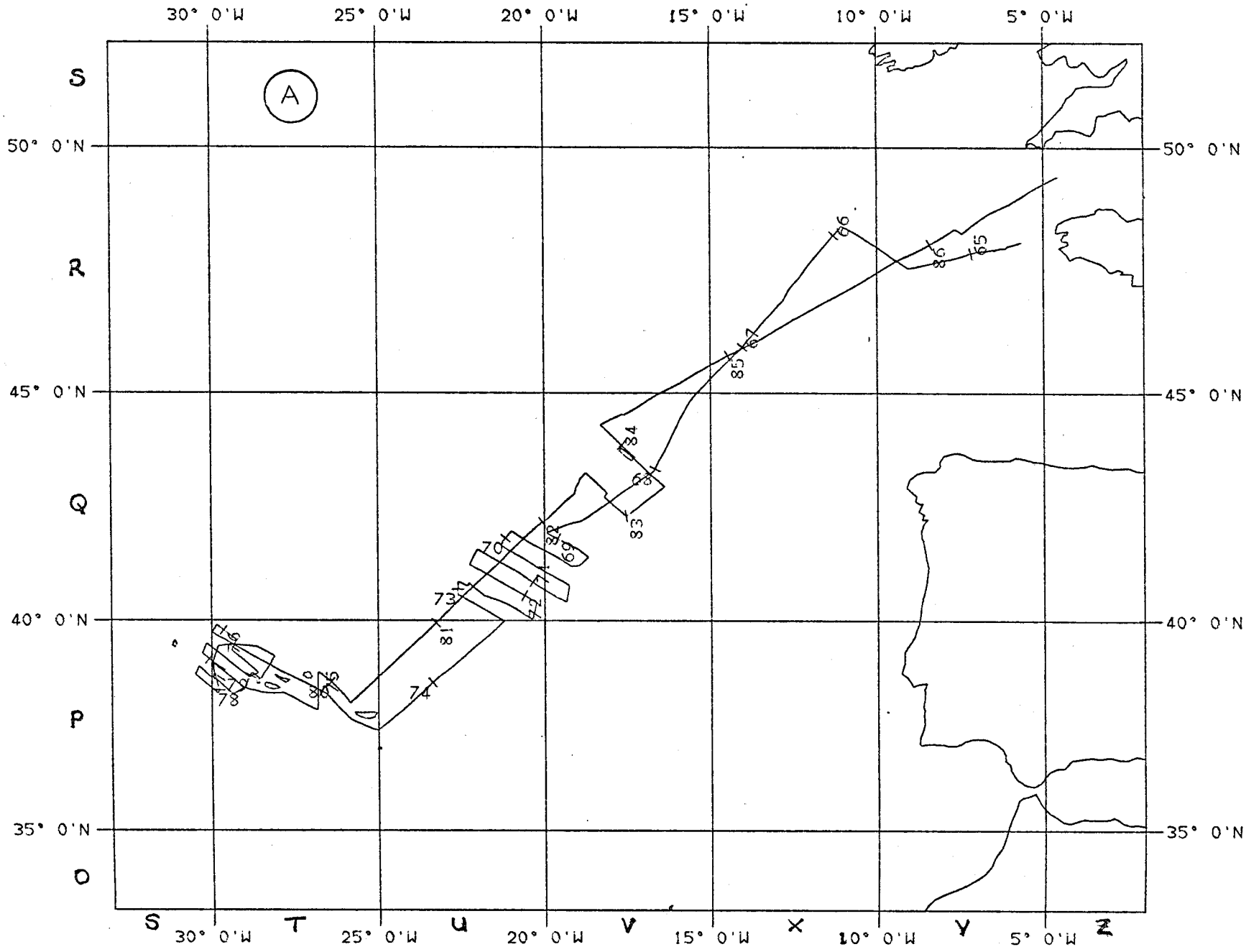
Start Port - Brest
End Port - Southampton

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 | 3206 | 3845 | 3551 |
| AVP | 568 | 1223 | 1221 |
| AVQ | 1326 | 3019 | 3010 |
| AWQ | 1811 | 3714 | 3498 |
| AWR | 162 | 291 | 279 |
| AXR | 893 | 1743 | 1751 |
| AYR | 399 | 689 | 693 |
| Total | 8697 | 14897 | 14375 |




DISCOVERY 91

Discovery Cruise 93 Leg 1

Magtapes:-

Original copy - 92190 LOC-BID Owner-SHIP DPG/ST/2/3 Original
Spurious $ characters in FAA field, removed on
mm version.
MGG copy - 90334 Density 1600bpi NLABEL File 1
Archive copy - MGG 1486

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

P.S.O. - Whitmarsh

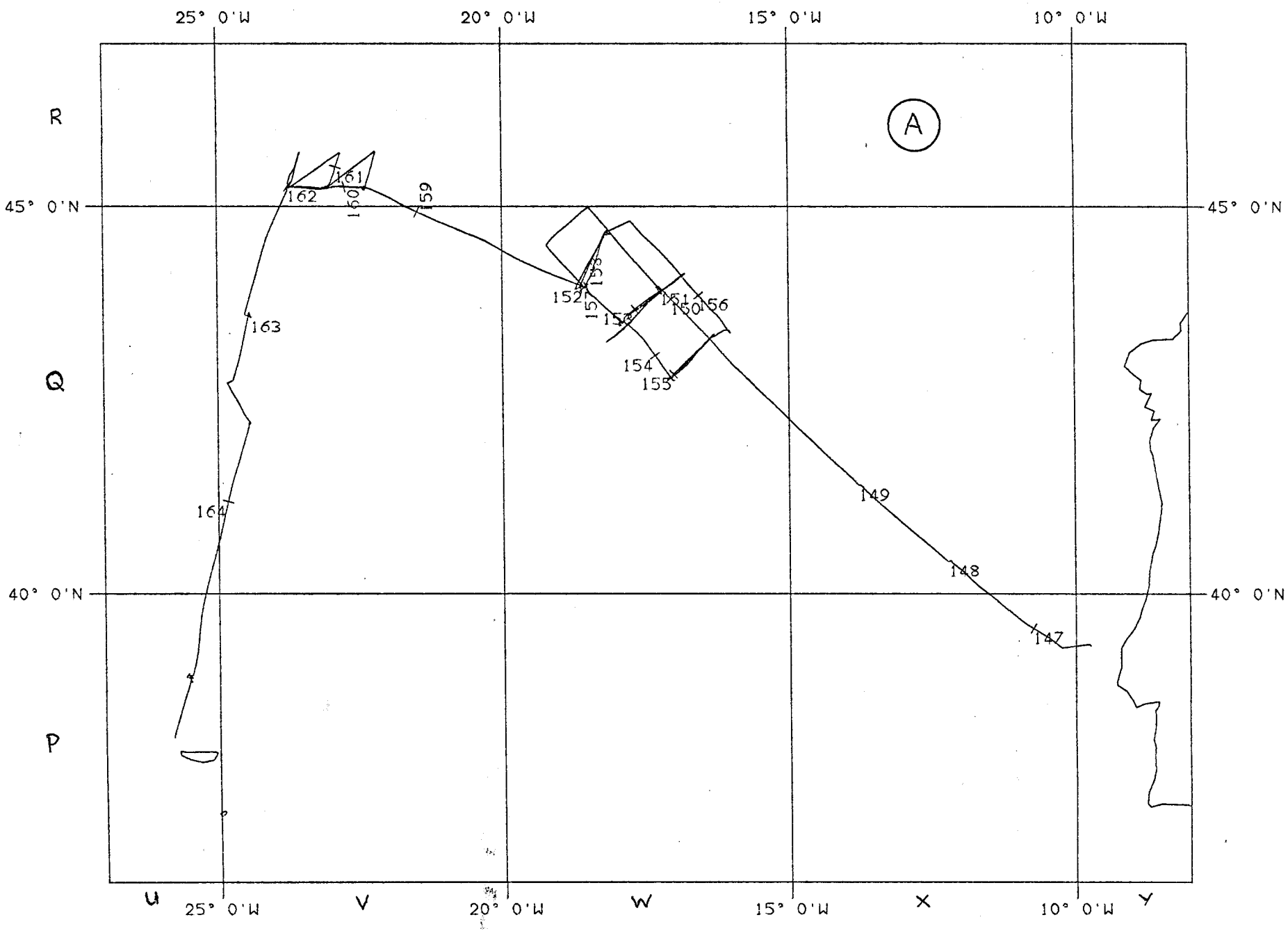
Start Port - Lisbon
End Port - Azores

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 | 98 | 207 | 209 |
| AUQ | 41 | 123 | 122 |
| AVQ | 386 | 847 | 1432 |
| AVR | 641 | 163 | 1561 |
| AWQ | 1791 | 2050 | 5579 |
| AXQ | 115 | 0 | 1346 |
| Total | 3072 | 3390 | 10249 |




DISCOVERY 93 LEG 1

Discovery Cruise 93 Leg 2

Magtapes:-

Original copy - 92189 LOC-3ID Owner-SHIP DPG/ST/2/3 Original
Spurious $ characters in FAA field, removed on
mm version.
MGG copy - 90334 Density 1600bpi NLABEL File 2
Archive copy - MGG 1487

Total records - 11311
Bathymetry - 3217
Magnetics - 3184
Gravity - 9828

P.S.O. - Whitmarsh

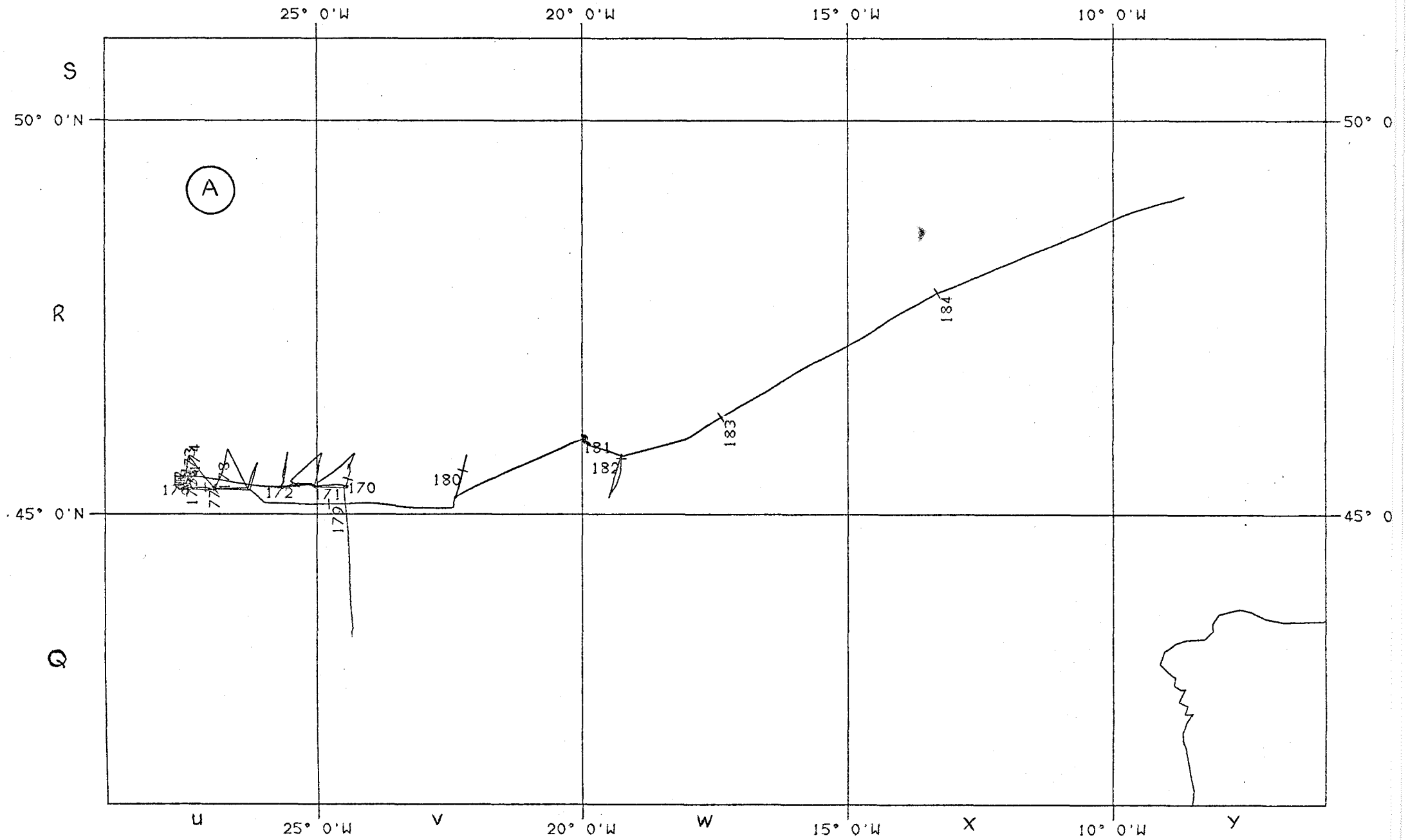
Start Port - Azores
End Port - Barry

Data Starts - 0416z 18-Jun-78
Data Ends - 2108z 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 | 857 | 2115 |
| AWR | 514 | 762 | 1811 |
| AXR | 260 | 772 | 781 |
| AYR | 3 | 0 | 169 |
| Total | 3217 | 3184 | 9828 |




DISCOVERY 93 LEG 2

Discovery Cruise 96

Magtapes:-

Original copy - 92130 LOC-BID Owner-MGG ASA9 DEN16 Original
MGG copy - 90340 Density 1600bpi NLABEL File 1
Archive copy - MGG 1489

Total records - 7829
Bathymetry - 1899
Magnetics - 0
Gravity - 0

P.S.O. - Belderson

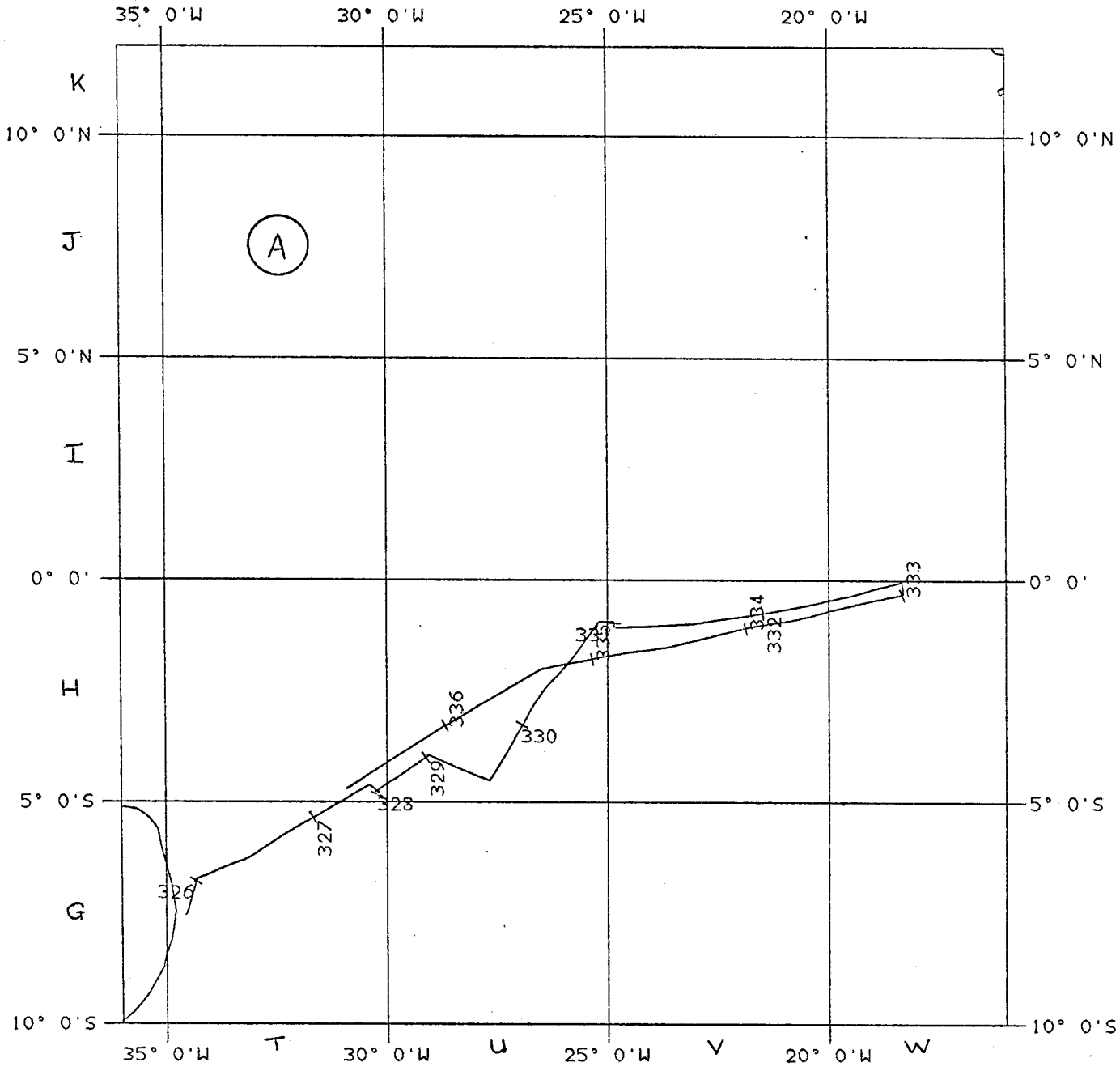
Start Port - Recife
End Port - Recife

Data Starts - 1856z 21-Nov-78
Data Ends - 1602z 02-Dec-78

Latitude minimum - 7.6S
Latitude maximum - 0.0
Longitude minimum - 34.6W
Longitude maximum - 18.3W

Distribution of data for Discovery Cruise 96:-

| Geographical Area Code | B | 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 - 92191 LOC-BID Owner-SHIP DPG/ST/2/3 Original
Corrected depth in fathoms, converted to metres
on mm tape.
MGG copy - 90340 Density 1600bpi NLABEL File 3
Archive copy - MGG 1491

Total records - 17803
Bathymetry - 5776
Magnetics - 15887
Gravity - 16998

P.S.O. - Roberts

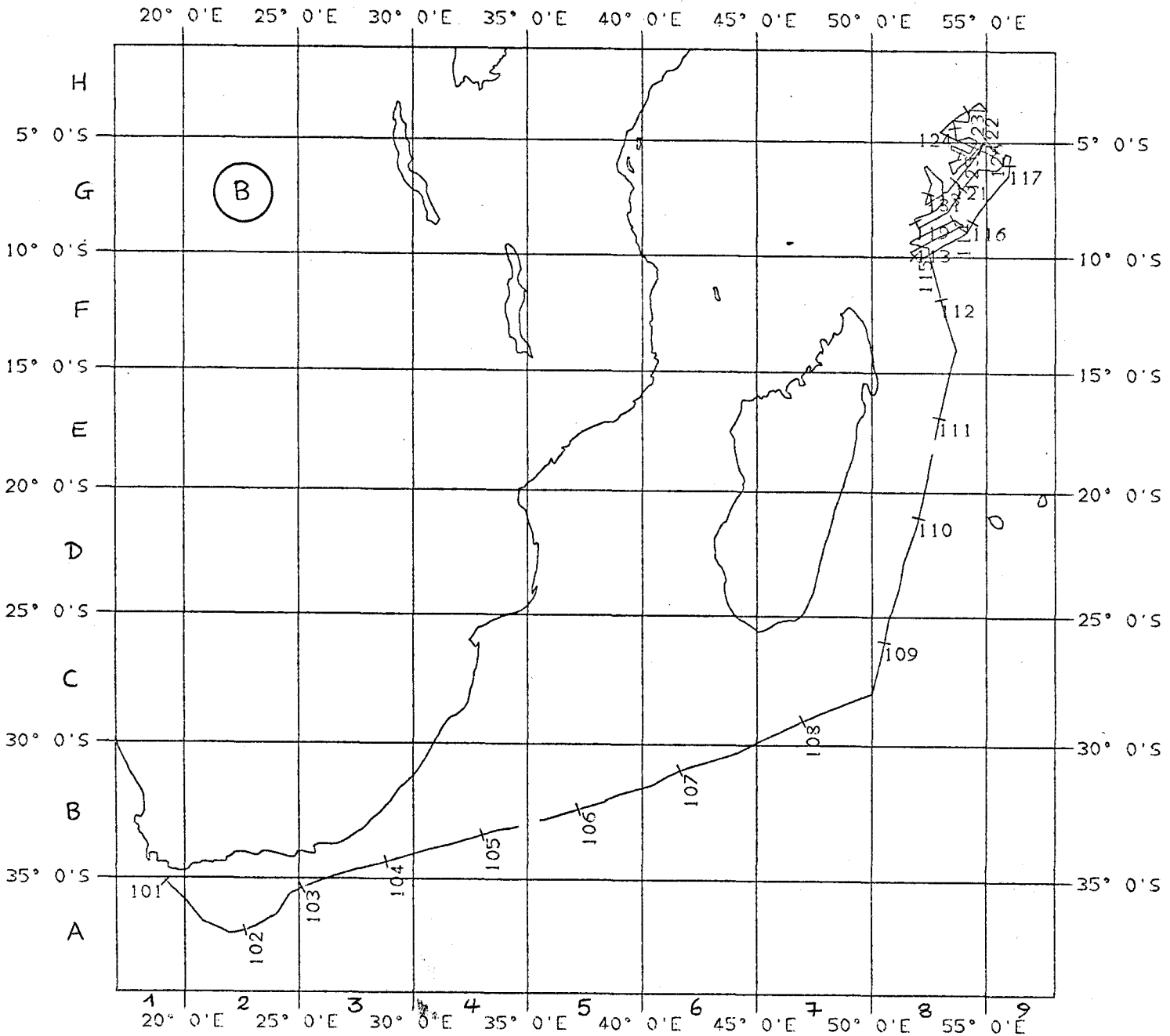
Start Port - Capetown
End Port - Seychelles

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 | 58 | 0 | 116 |
| B4A | 402 | 431 | 1110 |
| B5A | 103 | 306 | 304 |
| B5B | 220 | 653 | 641 |
| B6B | 266 | 797 | 790 |
| B7B | 238 | 656 | 628 |
| 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 | 380 | 1135 | 1102 |
| BBH | 20 | 68 | 56 |
| Total | 5776 | 15887 | 16998 |




DISCOVERY 101

Discovery Cruise 103A

Magtapes:-

Original copy - 90385 LOC-8ID Owner-SHIP DPG/ST/2/3 Original
Corrected depth in fathoms, converted to metres
on mm tape.
MGG copy - 90340 Density 1600bpi NLABEL File 4
Archive copy - MGG 1492

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

P.S.O. - Searle

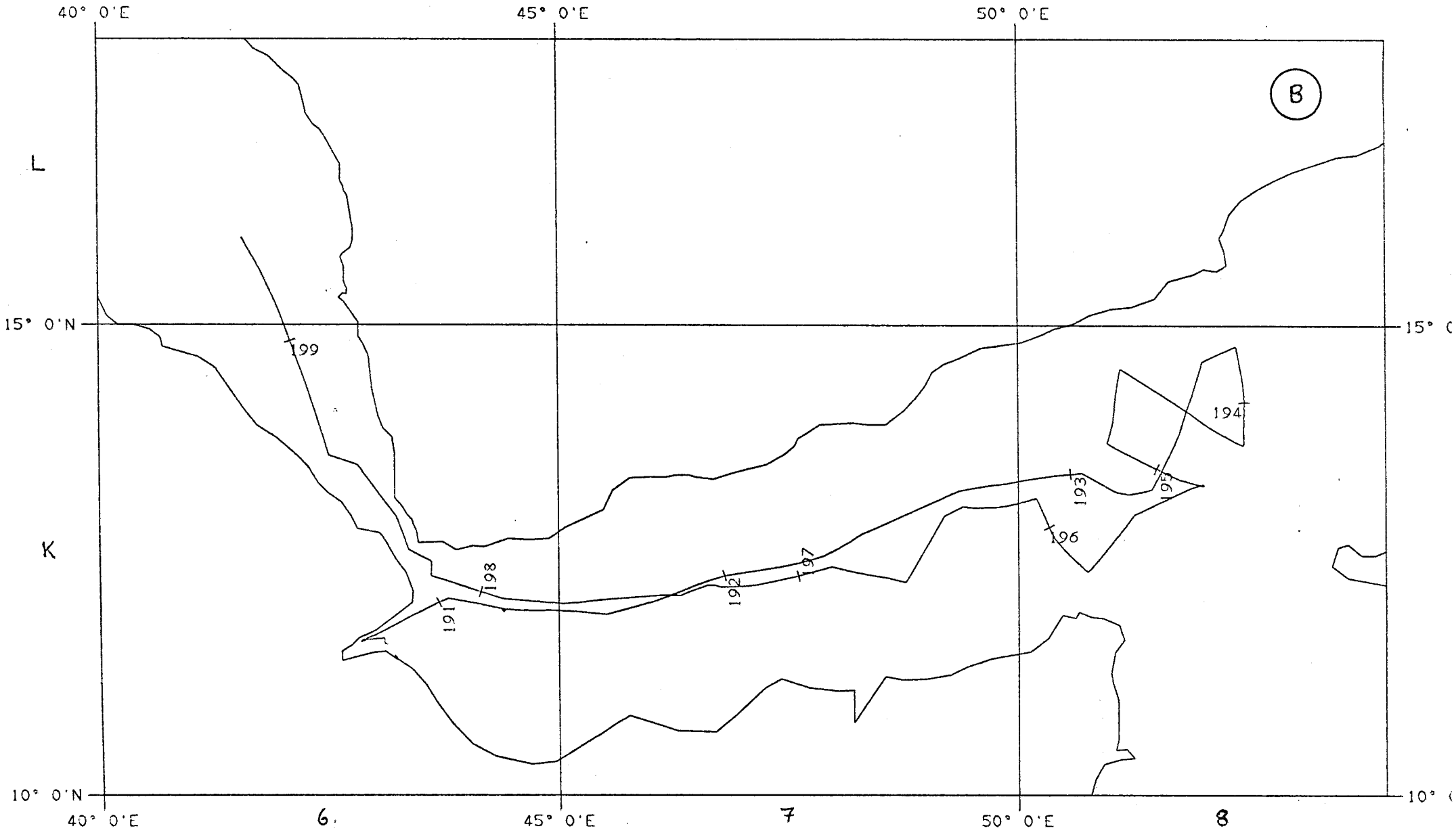
Start Port - Djibuti
End Port - Suez

Data Starts - 1108z 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 |
|---|---|---|---|
| B8K | 714 | 854 | 1662 |
| B8L | 100 | 194 | 172 |
| B9K | 1899 | 1845 | 2053 |
| BAK | 1912 | 1471 | 2284 |
| Total | 4625 | 4364 | 6171 |




DISCOVERY 103 PART A

Discovery Cruise 103B

Magtapes:-

Original copy - 90303 LOC-BID Owner-SHIP DPG/ST/2/3 Original
Corrected depth in fathoms, converted to metres
on mm tape.
MGG copy - 90340 Density 1600bpi NLABEL File 5
Archive copy - MGG 1493

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

P.S.O. - Searle

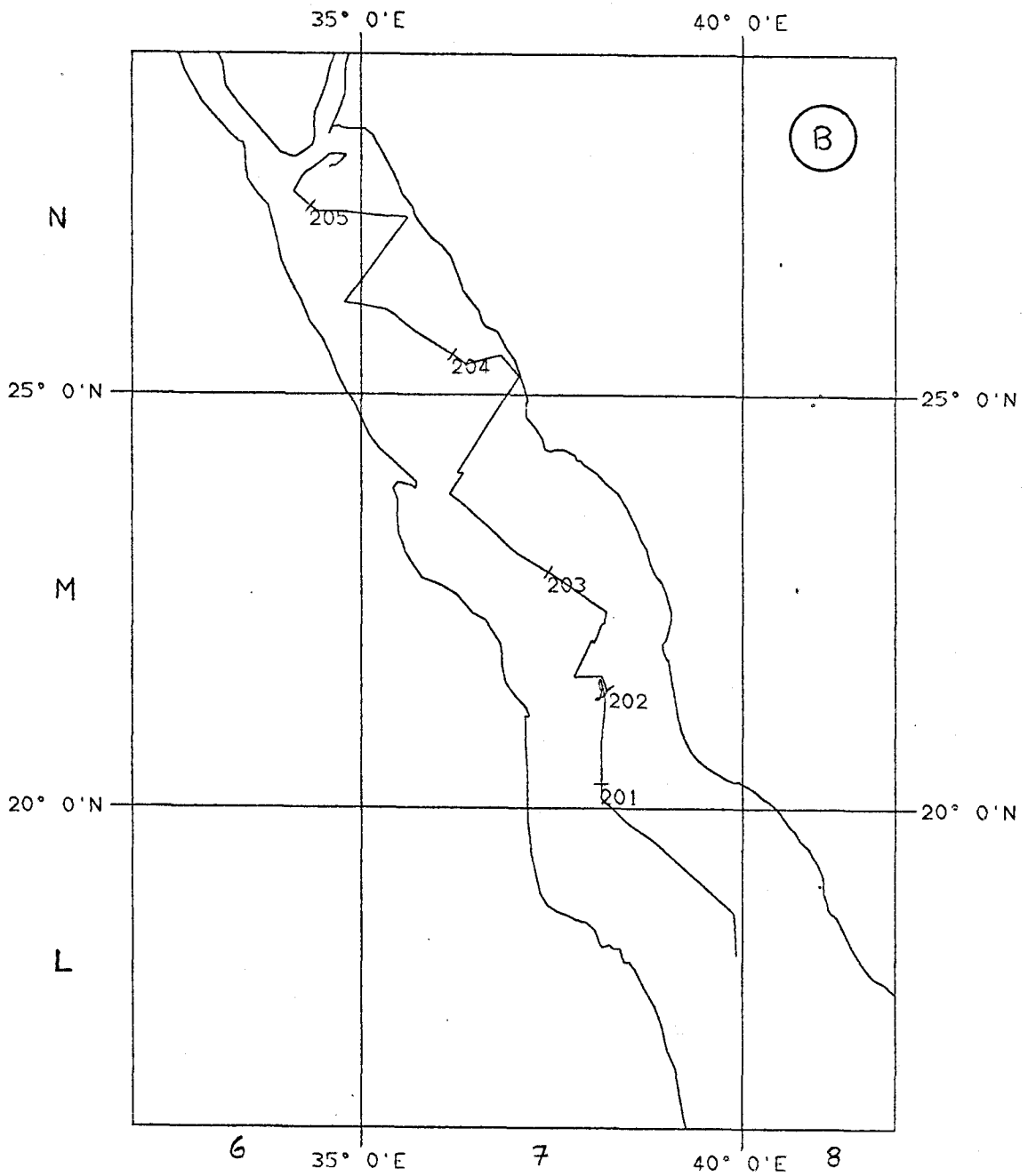
Start Port - Djibuti
End Port - Suez

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 |
|---|---|---|---|
| B6N | 405 | 410 | 484 |
| B7L | 462 | 475 | 470 |
| B7M | 1284 | 973 | 1018 |
| B7N | 301 | 224 | 321 |
| Total | 2452 | 2082 | 2293 |




DISCOVERY 103 PART B

Discovery Cruise 104

Magtapes:-

Original copy - 91329 LOC-BID Owner-SHIP DPG/ST/2/3 Original
MGG copy - 90341 Density 1600bpi NLABEL File 1
Archive copy - MGG 1494

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

P.S.O. - Kenyon

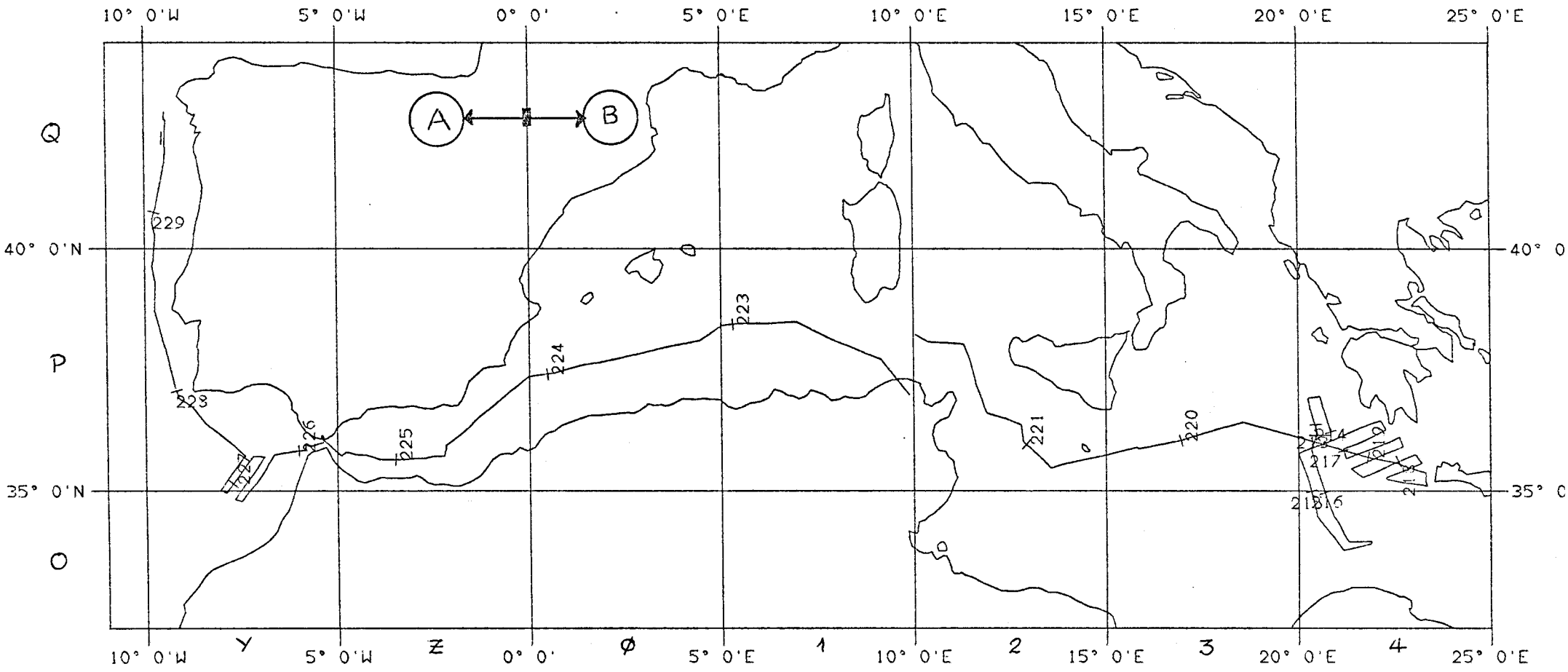
Start Port - Suez
End Port - Barry

Data Starts - 1027z 31-Jul-79
Data Ends - 1156z 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 | 281 | 0 | 0 |
| AZP | 138 | 0 | 0 |
| BOP | 213 | 0 | 0 |
| B1P | 254 | 0 | 0 |
| B2P | 283 | 0 | 0 |
| B3P | 206 | 0 | 0 |
| B40 | 237 | 0 | 0 |
| B4P | 933 | 0 | 0 |
| Total | 2596 | 0 | 0 |




DISCOVERY 104

Discovery Cruise 106 Leg 2

Magtapes:-

Original copy - 90217 LOC-BID Owner-SHIP DPG/ST/2/3 Original
MGG copy - 90341 Density 1600bpi NLABEL File 2
Archive copy - MGG 1495

Total records - 12222
Bathymetry - 2897
Magnetics - 7416
Gravity - 0

P.S.O. - Kidd

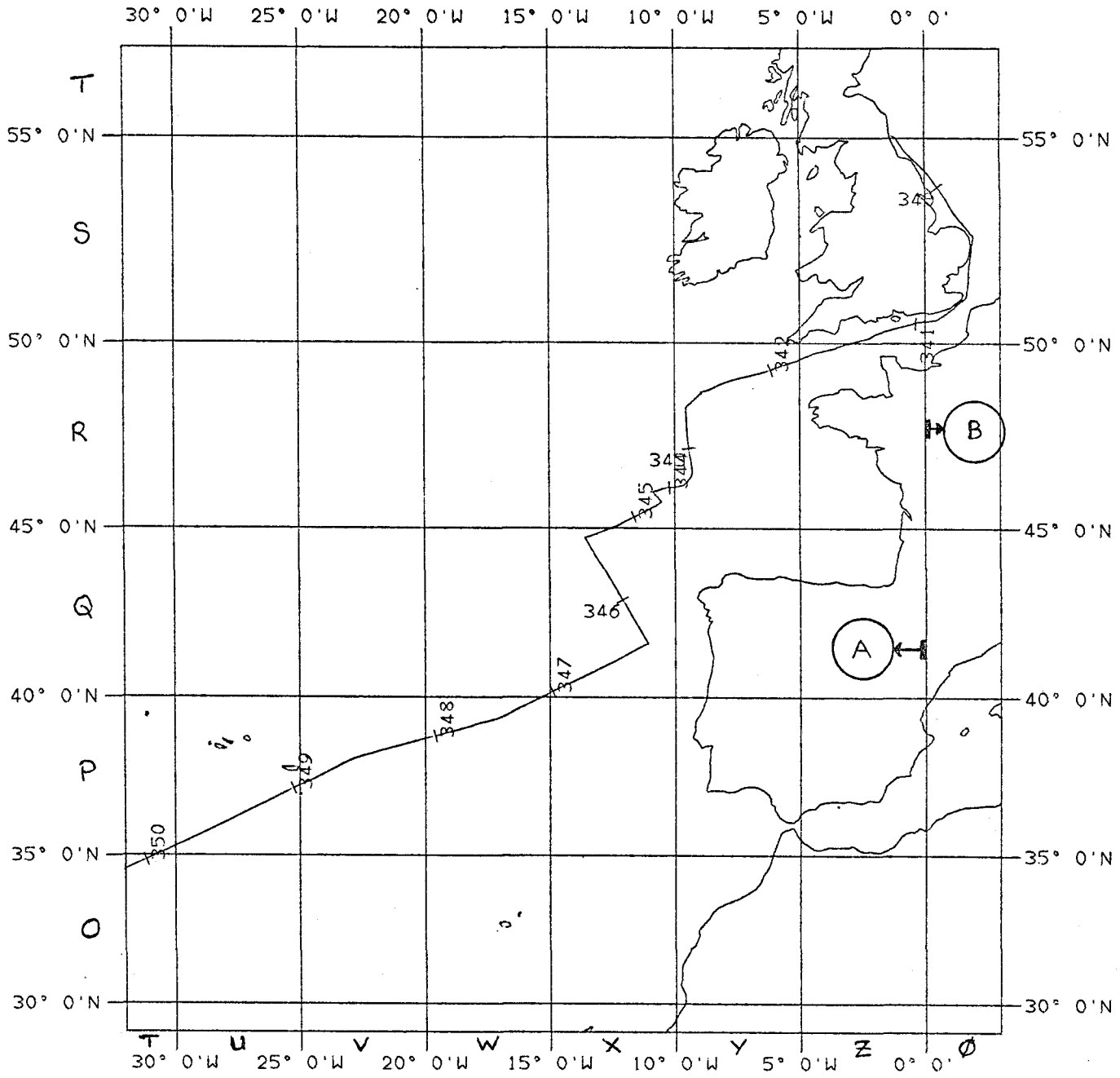
Start Port - South Shields
End Port - Puerto Rico

Data Starts - 1554z 05-Dec-79
Data Ends - 1432z 22-Dec-79

Latitude minimum - 18.5N
Latitude maximum - 55.0N
Longitude minimum - 66.1W
Longitude maximum - 2.0E

Distribution of data for Discovery Cruise 106 Part A:-

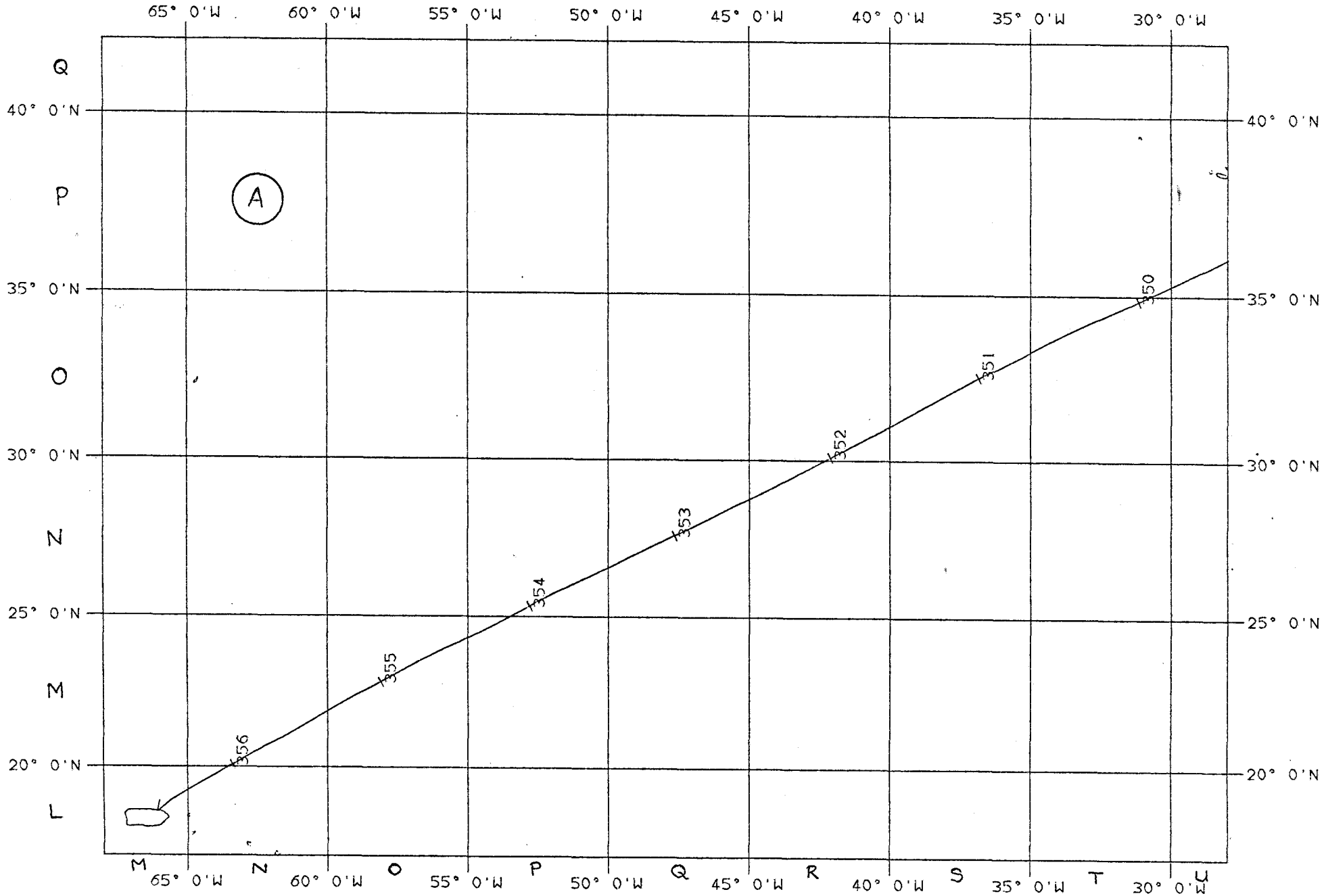
| Geographical Area Code | B | M | G |
|---|---|---|---|
| AUP | 3 | 554 | 0 |
| AVP | 84 | 391 | 0 |
| AWP | 222 | 620 | 0 |
| AWQ | 13 | 40 | 0 |
| AXQ | 412 | 1132 | 0 |
| AXR | 337 | 0 | 0 |
| AYR | 315 | 168 | 0 |
| Total | 1336 | 2905 | 0 |




DISCOVERY 106 PART A

Distribution of data for Discovery Cruise 106 Part B:-

| Geographical Area Code | B | M | G |
|---|---|---|---|
| AML | 49 | 173 | 0 |
| ANL | 59 | 196 | 0 |
| ANM | 149 | 462 | 0 |
| AOM | 199 | 680 | 0 |
| APM | 56 | 199 | 0 |
| APN | 153 | 487 | 0 |
| AQN | 215 | 641 | 0 |
| ARN | 112 | 321 | 0 |
| ARO | 100 | 297 | 0 |
| ASO | 217 | 467 | 0 |
| ATO | 171 | 495 | 0 |
| ATP | 31 | 93 | 0 |
| Total | 1511 | 4511 | 0 |




DISCOVERY 106 PART B

Discovery Cruise 107 Leg 1

Magtapes:-

Original copy - 92468 LOC-BID Owner-SHIP DPG/ST/2/3 Original
MGG copy - 90341 Density 1600bpi NLABEL File 3
Archive copy - MGG 1496

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

P.S.O. - Whitmarsh

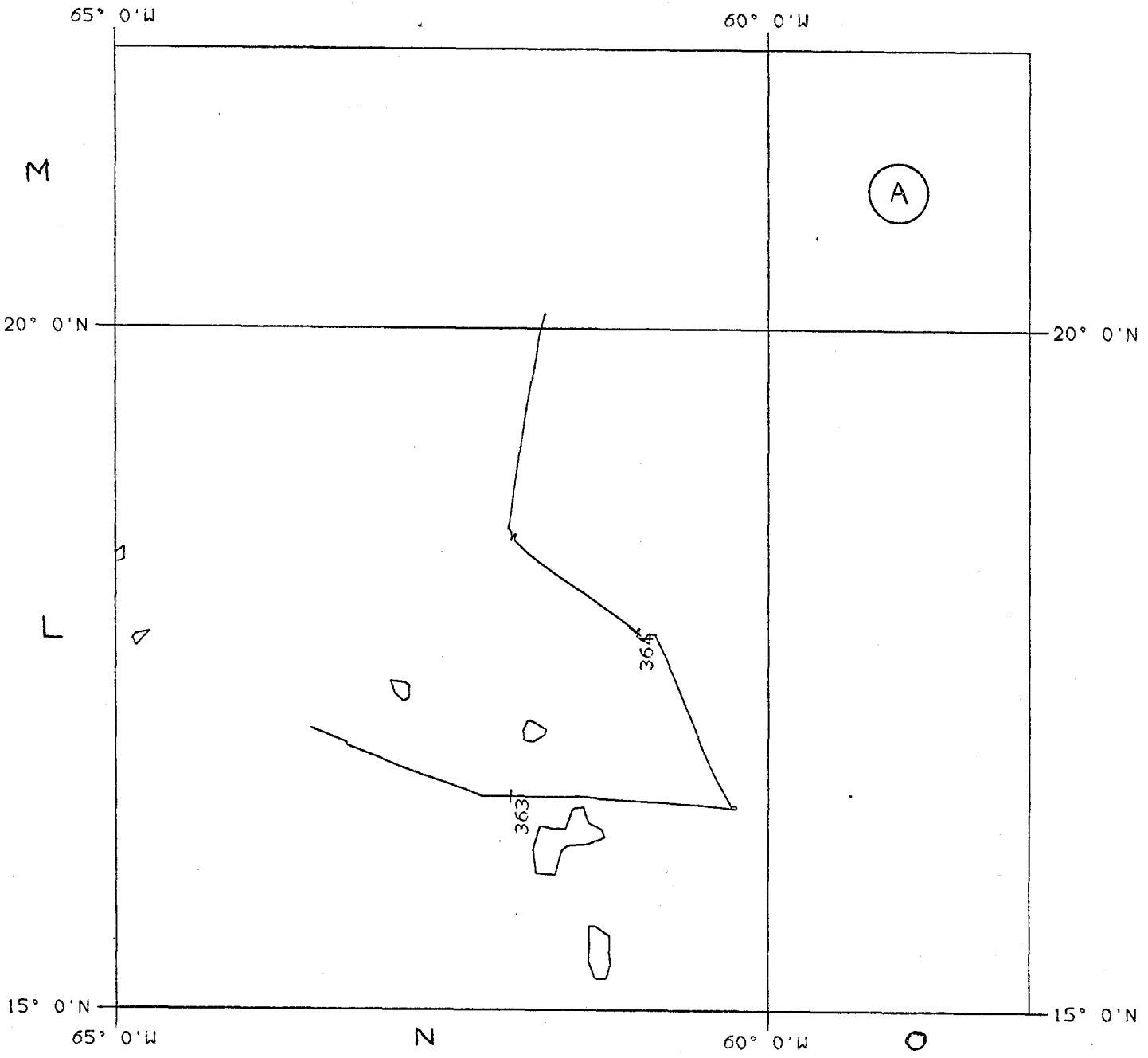
Start Port - Puerto Rico
End Port - Barbados

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

Latitude minimum - 16.4N
Latitude maximum - 20.2N
Longitude minimum - 63.6W
Longitude maximum - 60.2W

Distribution of data for Discovery Cruise 107 Leg 1:-

| Geographical Area Code | B | M | G |
|---|---|---|---|
| ANL | 450 | 882 | 1459 |
| AML | 0 | 18 | 0 |
| --- | --- | --- | --- |
| Total | 450 | 900 | 1459 |




DISCOVERY 107 LEG 1

Discovery Cruise 107 Leg 2

Magtapes:-

Original copy - 92469 LOC-3ID Owner-SHIP DPG/ST/2/3 Original
*****'s in mag. field, edited out on mm tape
MGG copy - 90341 Density 1600bpi NLABEL File 4
Archive copy - MGG 1497

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

P.S.O. - Whitmarsh

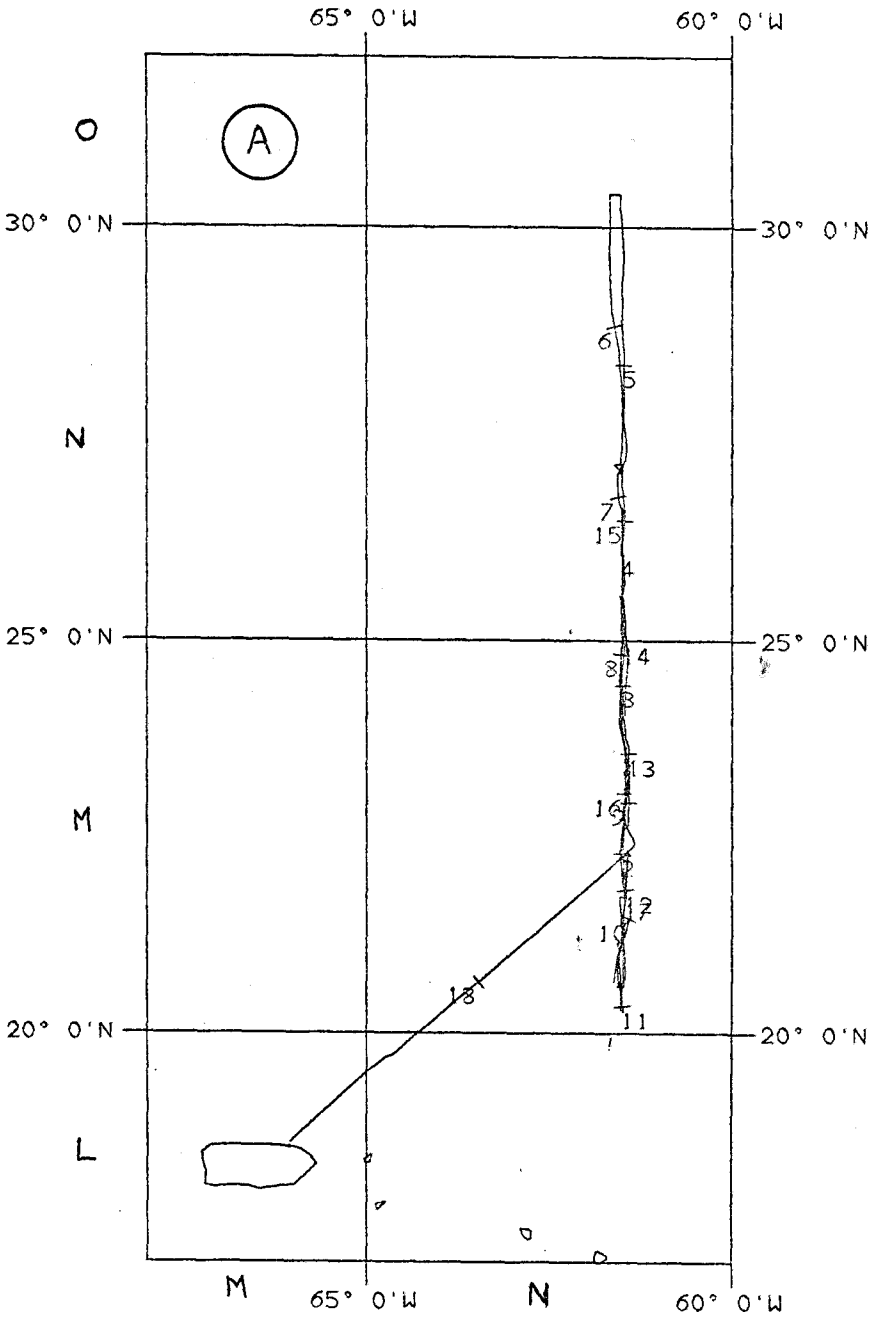
Start Port - Puerto Rico
End Port - Barbados

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 | 8 | 23 | 136 |
| ANL | 38 | 113 | 109 |
| ANM | 2032 | 1126 | 5743 |
| ANN | 1163 | 950 | 3463 |
| ANO | 53 | 156 | 139 |
| Total | 3294 | 2368 | 9590 |




DISCOVERY 107 LEG 2

Discovery Cruise 107 Leg 3

Magtapes:-

Original copy - 92470 LOC-BID Owner-SHIP DPG/ST/2/3 Original
MGG copy - 90341 Density 1600bpi NLABEL File 5
Archive copy - MGG 1498

Total records - 12753
Bathymetry - 3181
Magnetics - 4629
Gravity - 7857

P.S.O. - Whitmarsh

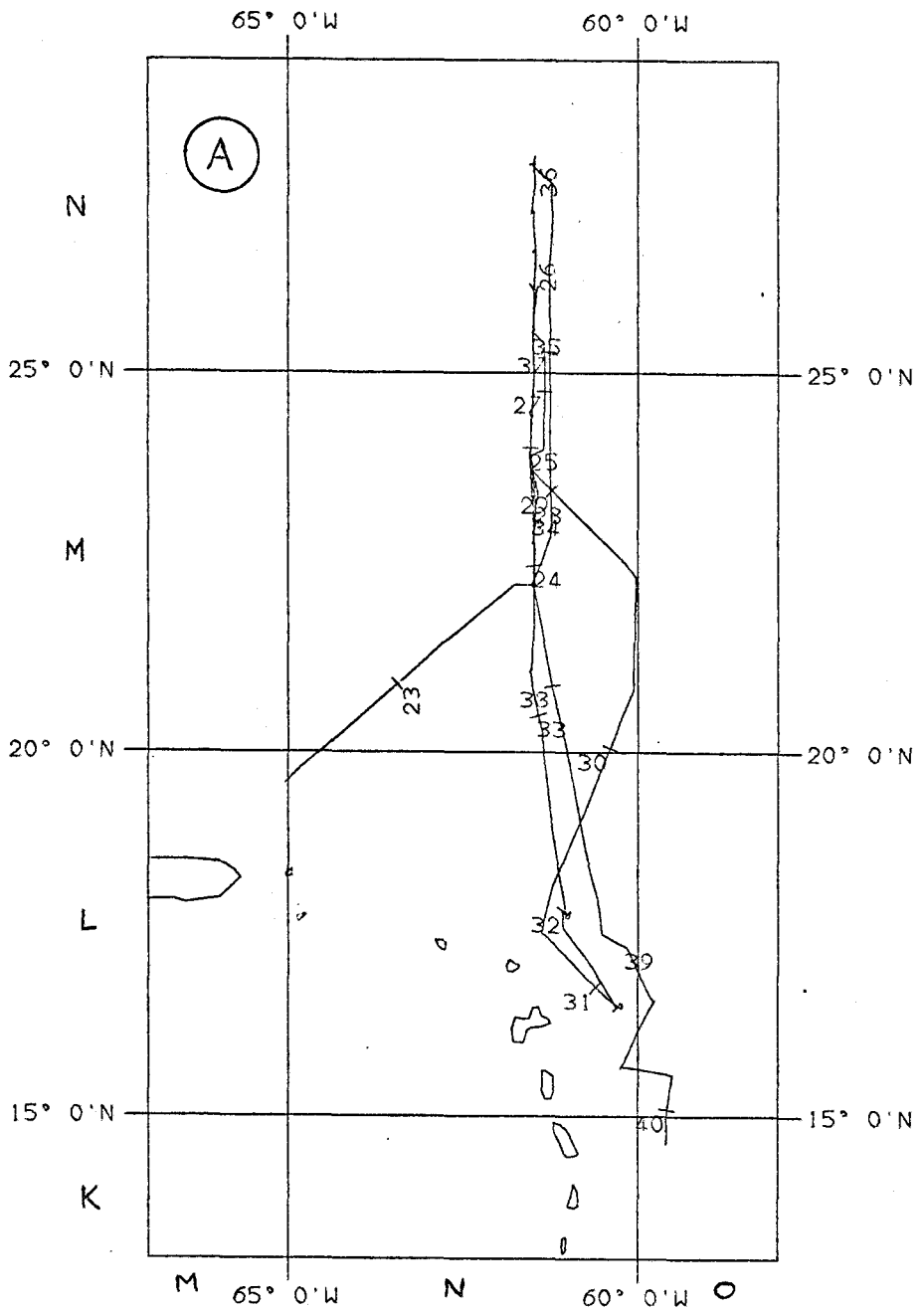
Start Port - Puerto Rico
End Port - Barbados

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

Latitude minimum - 14.6N
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 | 3181 | 4629 | 7857 |




DISCOVERY 107 LEG 3

Discovery Cruise 109 Leg 1

Magtapes:-

Original copy - 91364 LOC-BID Owner-CDP DPG/ST/2/3 Original
MGG copy - 90144 Density 1600bpi NLABEL File 1
Archive copy - MGG 1529

Total records - 10022
Bathymetry - 2745
Magnetics - 0
Gravity - 9855

P.S.O. - Stride

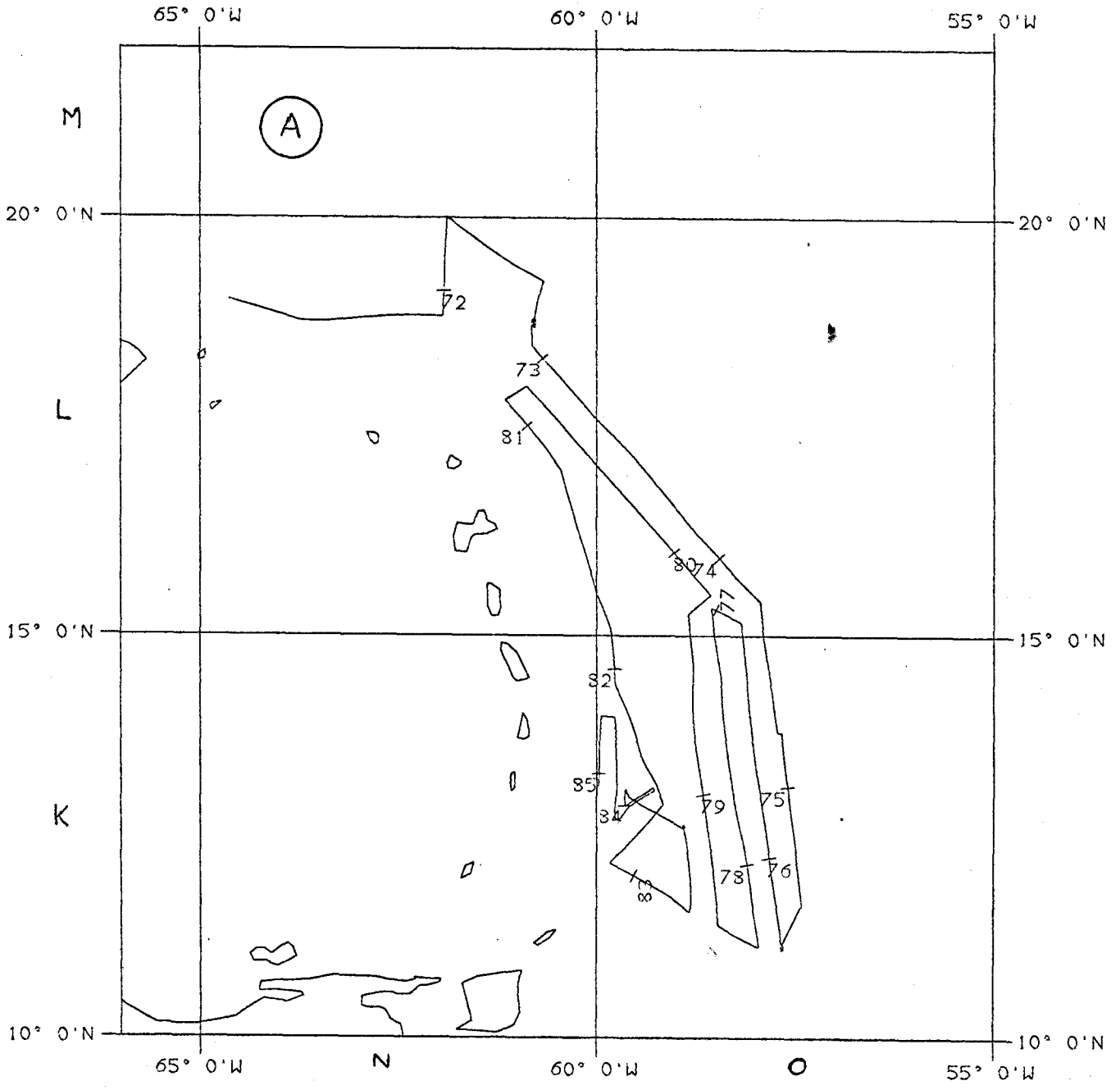
Start Port - Puerto Rico
End Port - Barbados

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 | 558 | 0 | 2396 |
| AOK | 1767 | 0 | 5808 |
| AOL | 420 | 0 | 1651 |
| Total | 2745 | 0 | 9855 |




DISCOVERY 109 LEG 1

Discovery Cruise 109 Leg 2

Magtapes:-

Original copy - 91365 LOC-BID Owner-CDP DPG/ST/2/3 Original
MGG copy - 90144 Density 1600bpi NLABEL File 2
Archive copy - MGG 1530

Total records - 14192
Bathymetry - 4685
Magnetics - 0
Gravity - 14061

P.S.O. - Stride

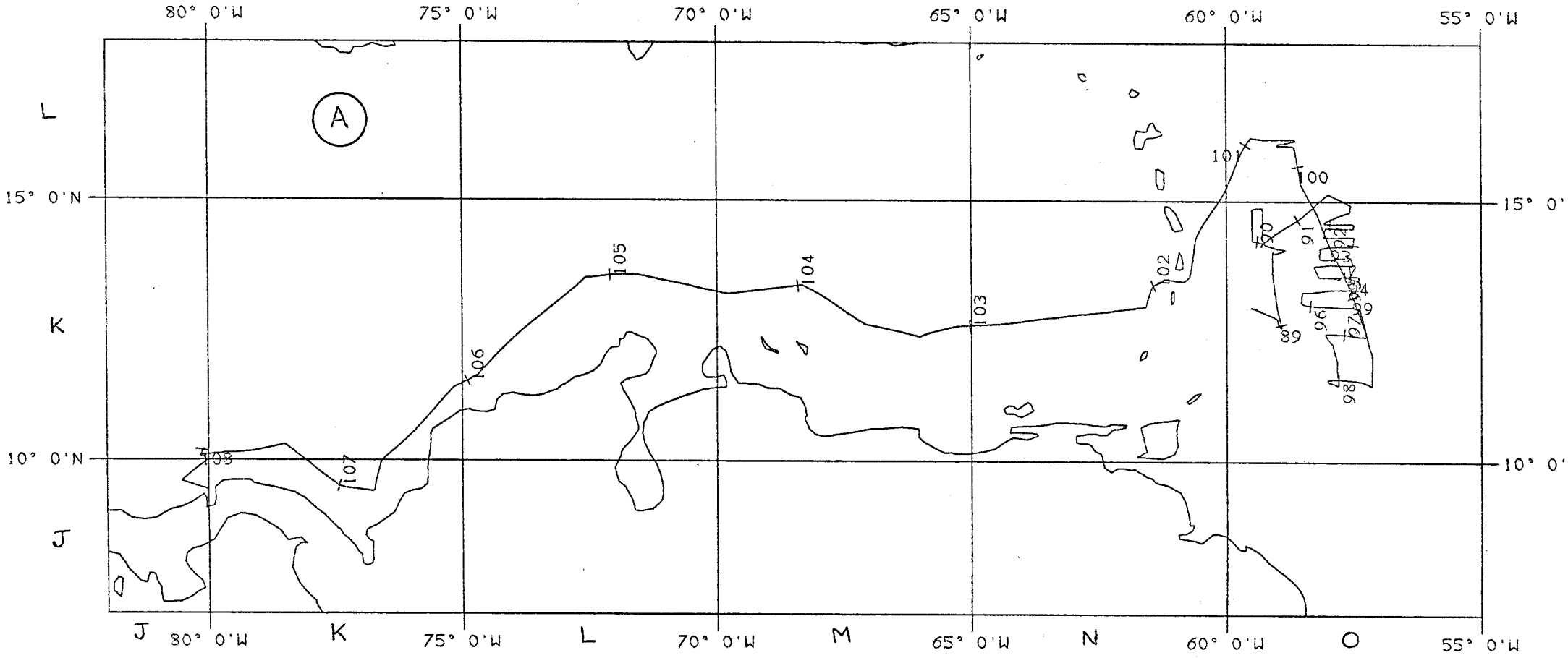
Start Port - Barbados
End Port - Panama

Data Starts - 1742z 28-Mar-80
Data Ends - 1022z 17-Apr-80

Latitude minimum - 9.3N
Latitude maximum - 16.3N
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 | 280 | 0 | 838 |
| ALK | 393 | 0 | 1175 |
| AMK | 338 | 0 | 999 |
| ANK | 401 | 0 | 1203 |
| ANL | 19 | 0 | 57 |
| AOK | 2544 | 0 | 7641 |
| AOL | 429 | 0 | 1271 |
| Total | 4686 | 0 | 14062 |




DISCOVERY 109 LEG 2

Discovery Cruise 110 Leg 1

Magtapes:-

Original copy - 92473 LOC-BID Owner-SHIP DPG/ST/2/3 Original 30.4.80 stored as 0.5.80. Errors in magnetic anomaly fields. Edited in MM version.
MGG copy - 90347 Density 1600bpi NLABEL File 1
Archive copy - MGG 1501

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

P.S.O. - Searle

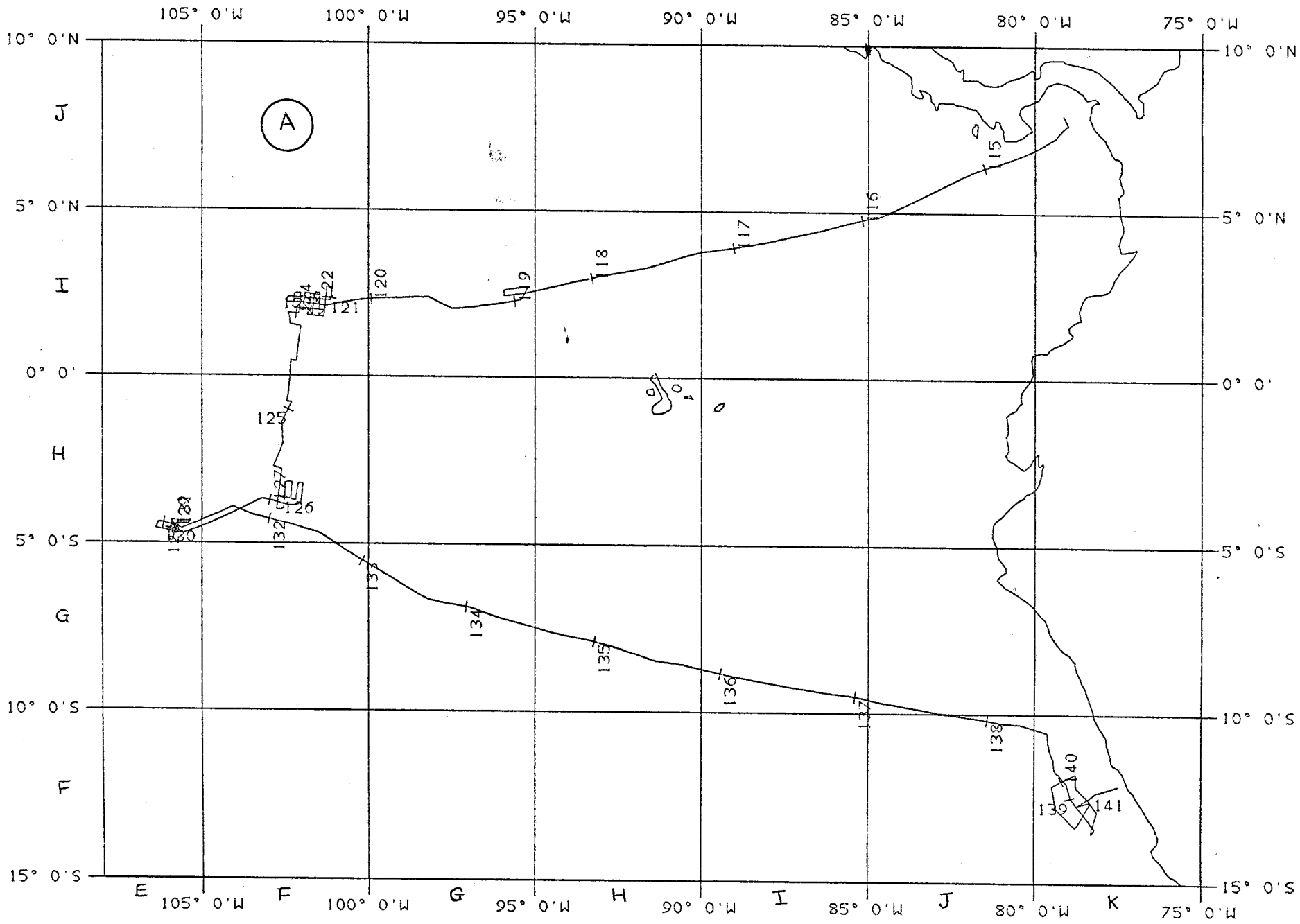
Start Port - Panama
End Port - Lima

Data Starts - 0527z 23-Apr-80
Data Ends - 0742z 20-May-80

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 | 318 | 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 LEG 1

Discovery Cruise 110 Leg 2

Magtapes:-

Original copy - 92474 LOC-BID Owner-SHIP DPG/ST/2/3 Original 30.5.80 stored as 0.6.80. Errors in mag. anomaly fields. Edited in MM version.
MGG copy - 90347 Density 1600bpi NLABEL File 2
Archive copy - MGG 1502

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

P.S.O. - Searle

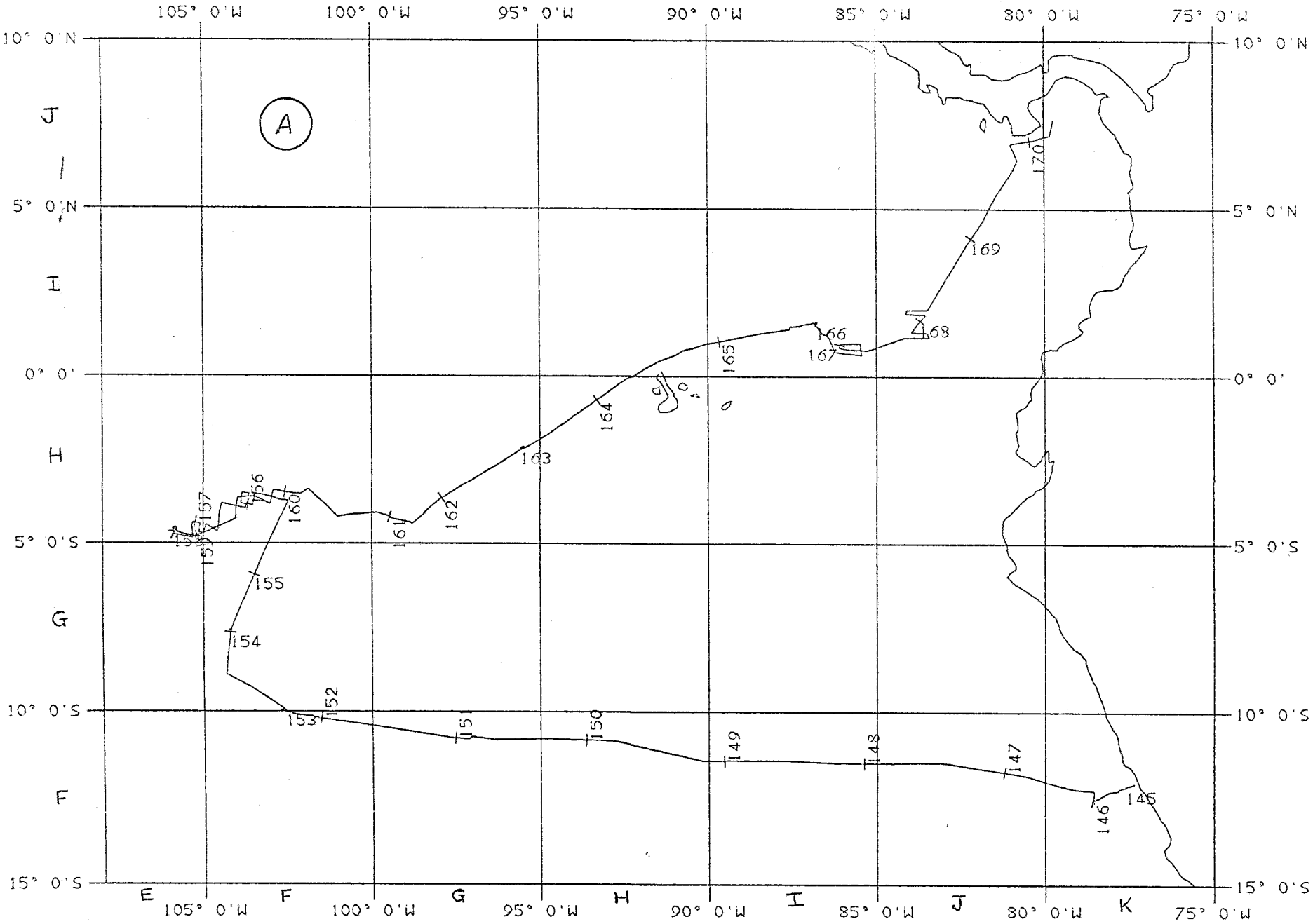
Start Port - Lima
End Port - Panama

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 | 861 | 831 |
| AII | 754 | 700 | 752 |
| AJF | 865 | 864 | 603 |
| AJI | 1338 | 1292 | 1377 |
| AJJ | 600 | 403 | 634 |
| AKF | 650 | 355 | 931 |
| AKJ | 26 | 42 | 48 |
| Total | 12709 | 11326 | 14245 |




DISCOVERY 110 LEG 2

Discovery Cruise 111 Leg 1

Magtapes:-

Original copy - 91328 LOC-BID Owner-SHIP DPG/ST/2/3 Original
MGG copy - 90370 Density 1600bpi NLABEL File 1
Archive copy - MGG 1503

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

P.S.O. - Kidd

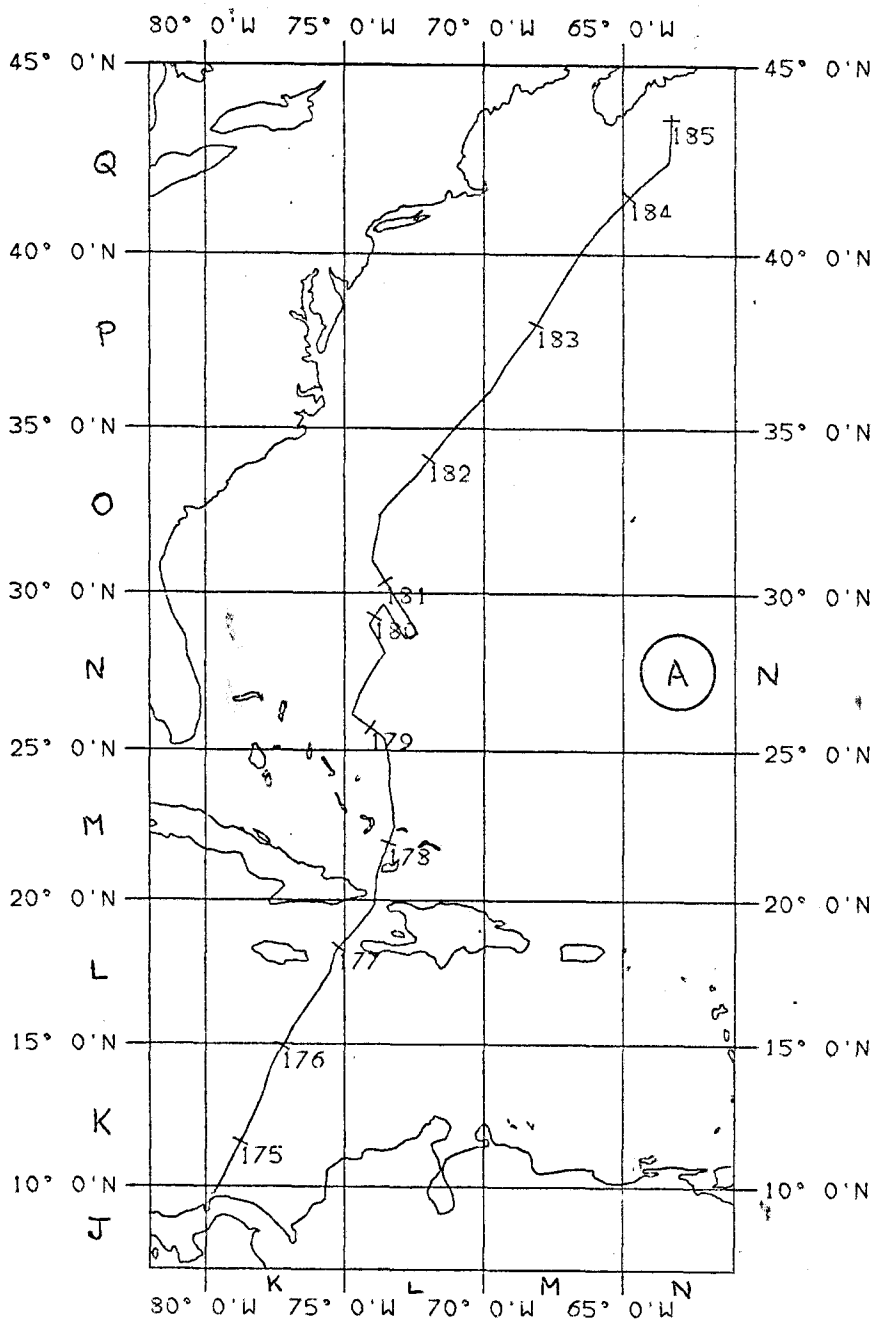
Start Port - Panama
End Port - Halifax

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

Latitude minimum - 9.7N
Latitude maximum - 43.8N
Longitude minimum - 79.8W
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 | 206 | 631 | 0 |
| Total | 1505 | 4887 | 3017 |




DISCOVERY 111 LEG 1

Discovery Cruise 111 Leg 2

Magtapes:-

Original copy - 92466 LOC-BID Owner-SHIP DPG/ST/2/3 Original Data path 33 is xxxxx but has no status symbol to reject it.
MGG copy - 90370 Density 1600bpi NLABEL File 2
Archive copy - MGG 1504

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

P.S.O. - Roberts

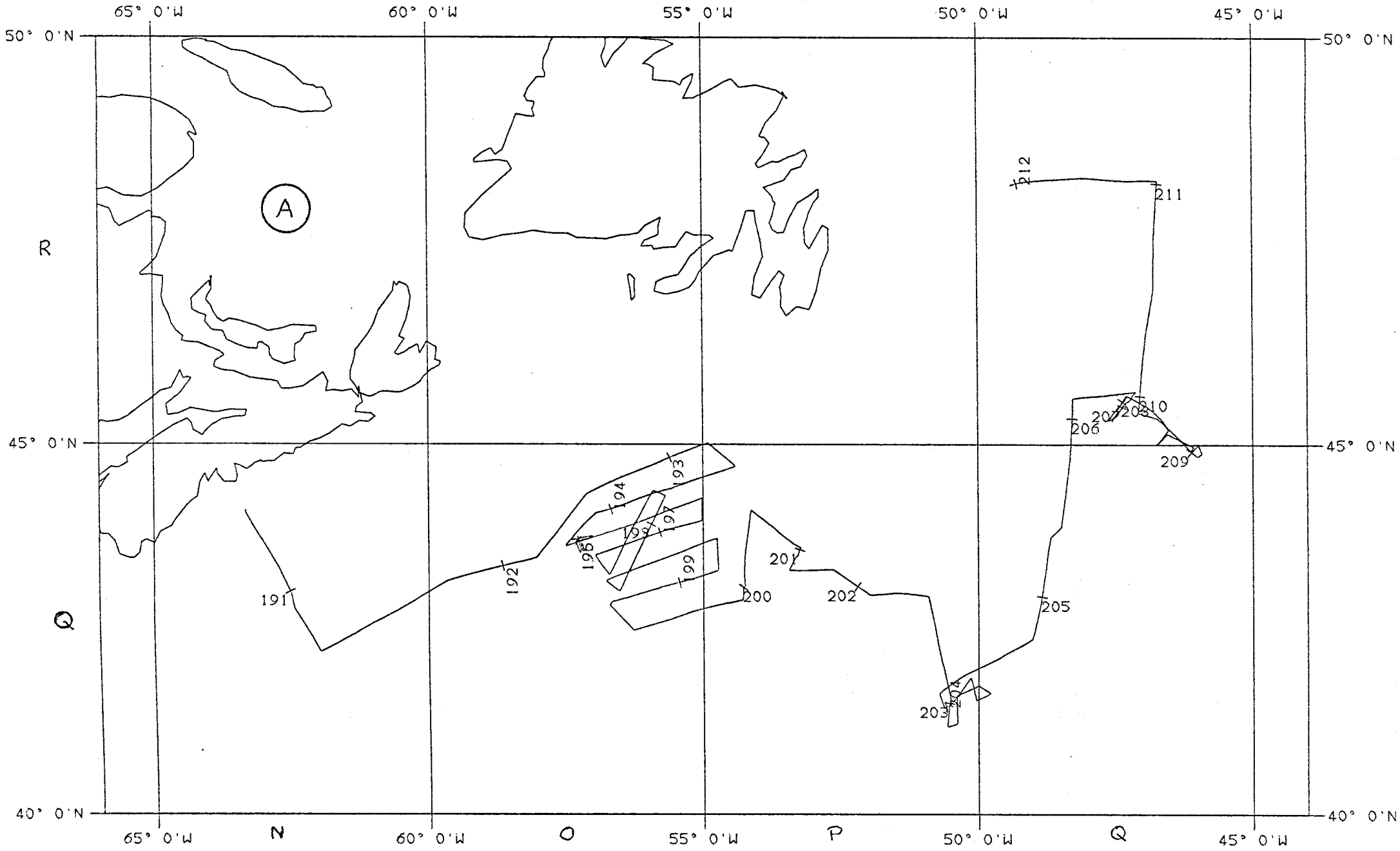
Start Port - Halifax
End Port - St. Johns

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 |
| AOQ | 1498 | 1024 | 4533 |
| APQ | 1090 | 1375 | 2639 |
| APR | 5 | 16 | 16 |
| AQQ | 451 | 198 | 1586 |
| AQR | 892 | 0 | 3899 |
| Total | 4176 | 2613 | 13173 |




DISCOVERY 111 LEG 2

Discovery Cruise 118 Leg 1

Magtapes:-

Original copy - 92451 LOC-BID Owner-SHIP DPG/ST/2/3 Original
*****'s in mag. anomaly fields, removed in MM version.
MGG copy - 90393 Density 1600bpi NLABEL File 1
Archive copy - MGG 1506

Total records - 15557
Bathymetry - 3276
Magnetics - 8368
Gravity - 14781

P.S.O. - Francis

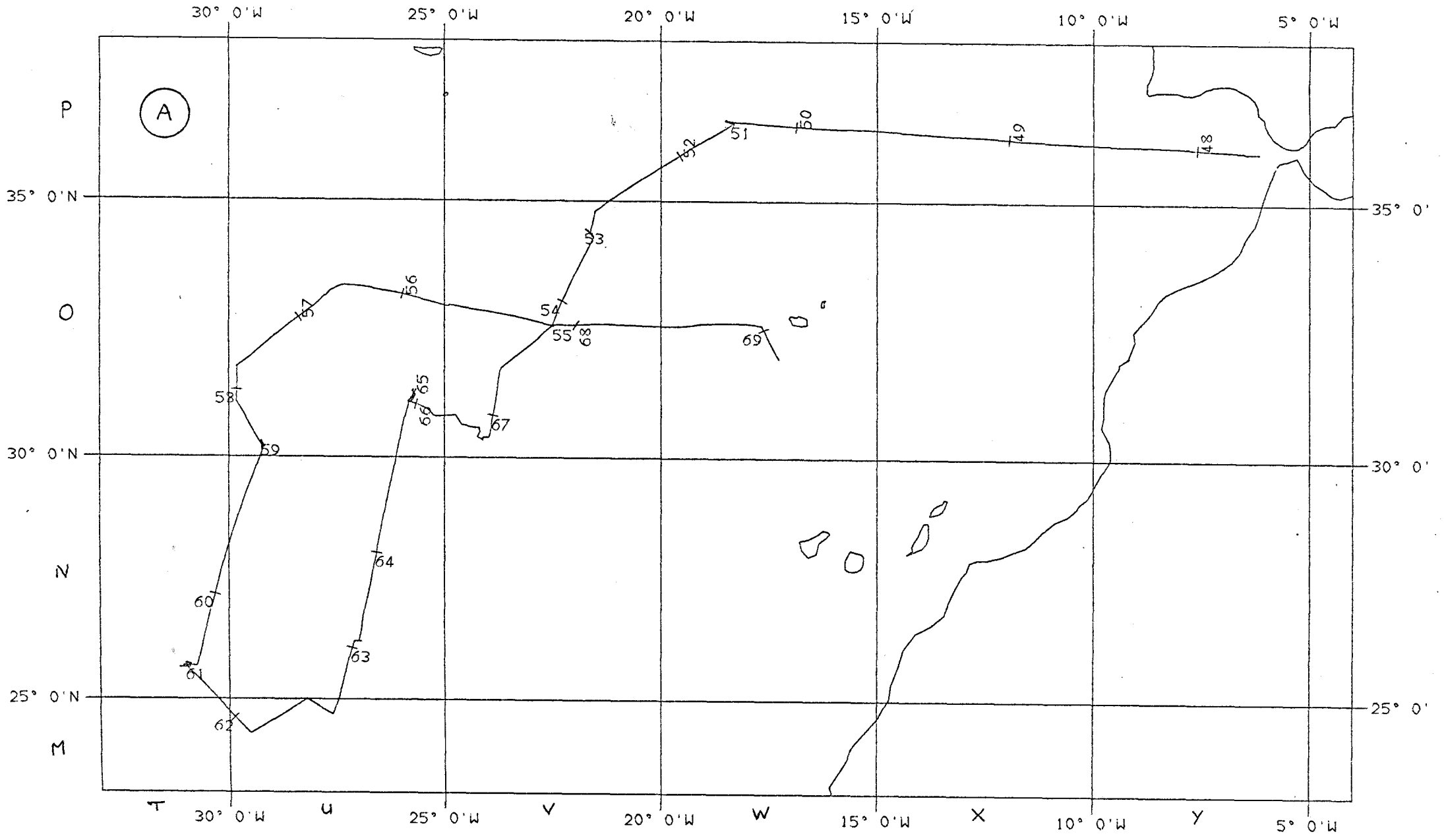
Start Port - Gibraltar
End Port - Madeira

Data Starts - 1412z 16-Feb-81
Data Ends - 0328z 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 | 282 | 827 | 1692 |
| AXP | 243 | 458 | 734 |
| AYP | 191 | 0 | 693 |
| Total | 3276 | 8368 | 14782 |




DISCOVERY 118 LEG 1

Discovery Cruise 118 Leg 2

Magtapes:-

Original copy - 92452 LOC-BID Owner-SHIP DPG/ST/2/3 Original
*****'s in mag. anomaly fields, removed in MM version.
MGG copy - 90393 Density 1600bpi NLABEL File 2
Archive copy - MGG 1507

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

P.S.O. - Francis

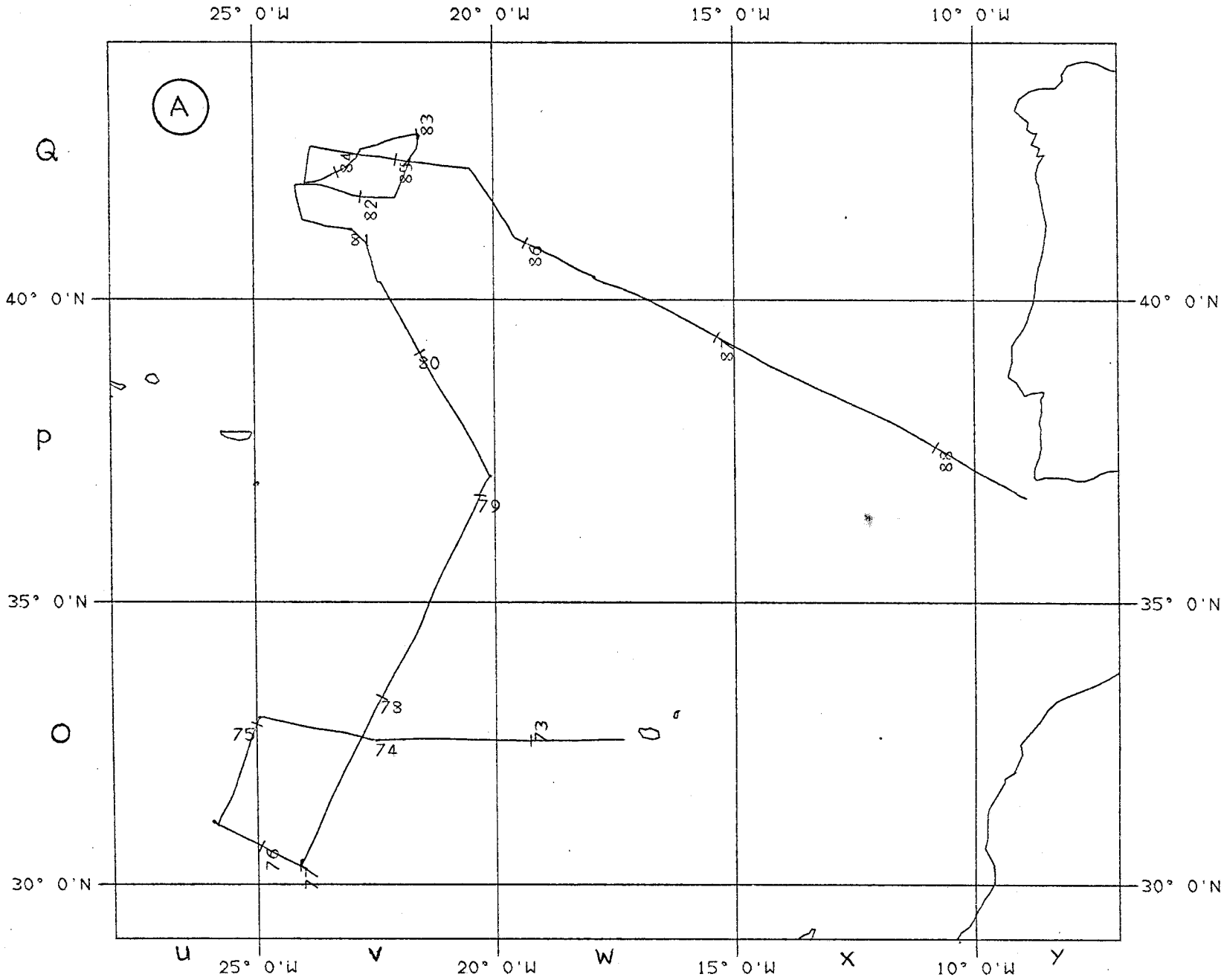
Start Port - Madeira
End Port - Gibraltar

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 | 606 | 699 |
| AVO | 696 | 1970 | 3090 |
| AVP | 346 | 985 | 1283 |
| AVQ | 941 | 2404 | 3876 |
| AWO | 138 | 384 | 417 |
| AWP | 92 | 290 | 289 |
| AWQ | 222 | 705 | 723 |
| AXP | 265 | 793 | 793 |
| AYP | 54 | 153 | 189 |
| Total | 2950 | 8290 | 11359 |




DISCOVERY 118 LEG 2

Discovery Cruise 123 Leg 1

Magtapes:-

Original copy - 91341 LOC-BID Owner-SHIP DPG/ST/2/3 Original
MGG copy - 90393 Density 1600bpi NLABEL File 3
Archive copy - MGG 1508

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

P.S.O. - Wilson

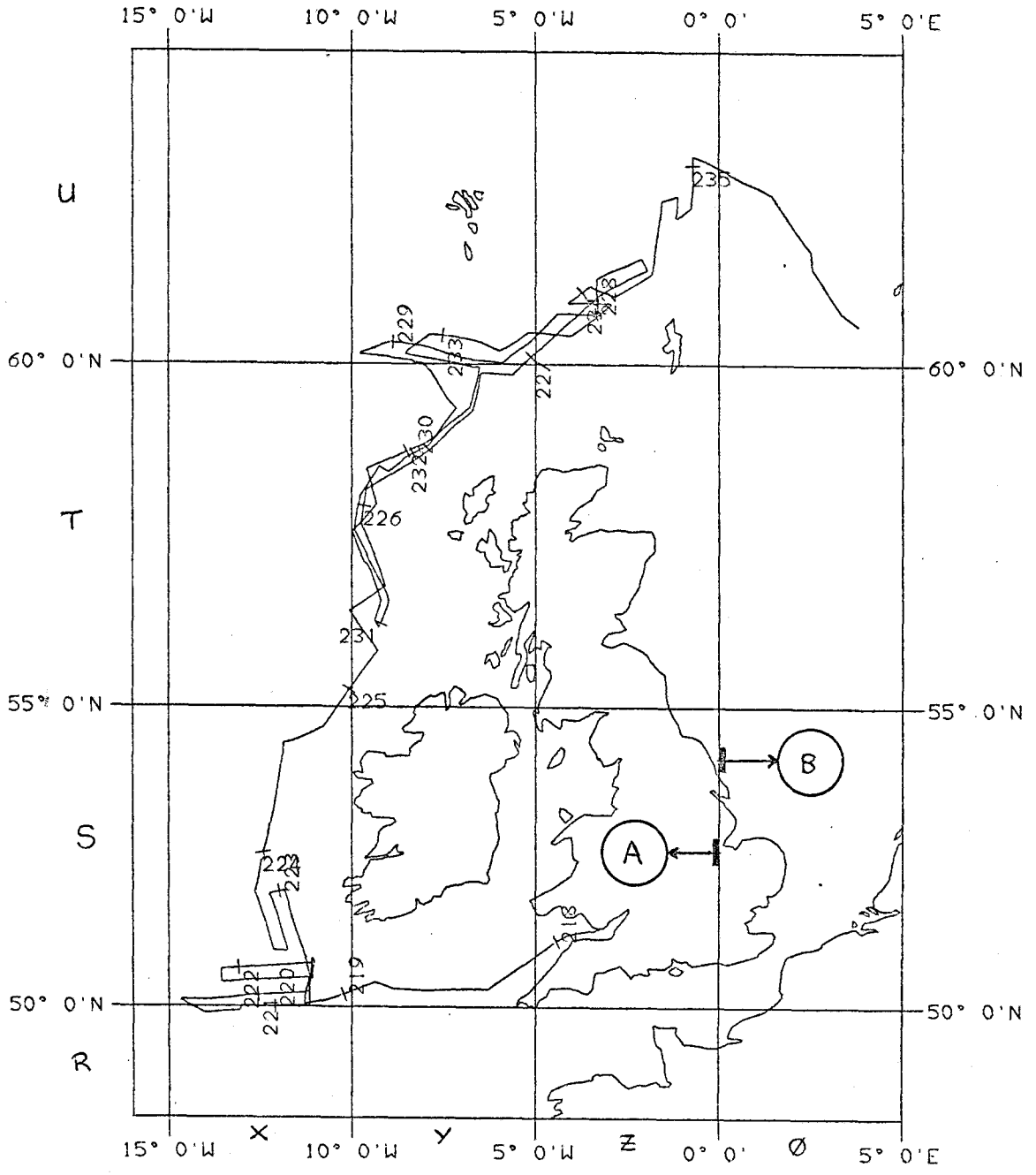
Start Port - Barry
End Port - Bergen

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 | 488 | 0 | 0 |
| AZS | 79 | 0 | 0 |
| AZU | 723 | 0 | 0 |
| BOU | 172 | 0 | 0 |
| Total | 4291 | 0 | 0 |




DISCOVERY 123 LEG 1

Discovery Cruise 123 Leg 2

Magtapes:-

Original copy - 91335 LOC-BID Owner-SHIP DPG/ST/2/3 Original
Error in MONTH field, corrected on MM version.
MGG copy - 90393 Density 1600bpi NLABEL File 4
Archive copy - MGG 1509

Total records - 8903
Bathymetry - 2553
Magnetics - 0
Gravity - 0

P.S.O. - Wilson

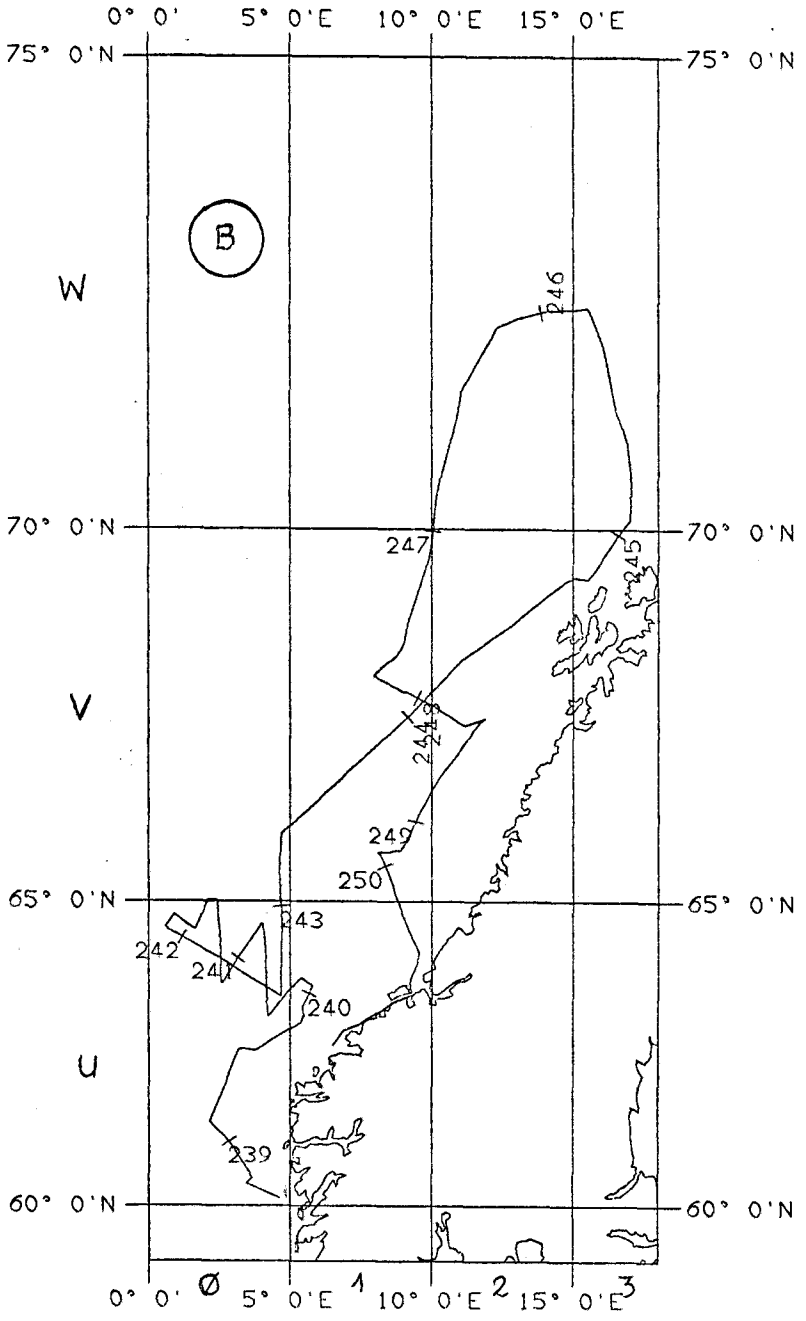
Start Port - Bergen
End Port - Immingham

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 |
|---|---|---|---|
| B0U | 985 | 0 | 0 |
| B0V | 97 | 0 | 0 |
| B1U | 91 | 0 | 0 |
| B1V | 514 | 0 | 0 |
| B2V | 333 | 0 | 0 |
| B2W | 281 | 0 | 0 |
| B3V | 60 | 0 | 0 |
| B3W | 192 | 0 | 0 |
| Total | 2553 | 0 | 0 |




DISCOVERY 123 LEG 2

Discovery Cruise 131 Leg 1

Magtapes:-

Original copy - 91844 LOC-BID Owner-RBW DPG/ST/2/3 Original
A1695 archive copy of above.
Two tears in track caused by apparent error in navigation, edited on MM version.
MGG copy - 90144 Density 1600bpi NLABEL File 3
Archive copy - MGG 1698

Total records - 13658
Bathymetry - 3633
Magnetics - 7138
Gravity - 9874

P.S.O. - Whitmarsh

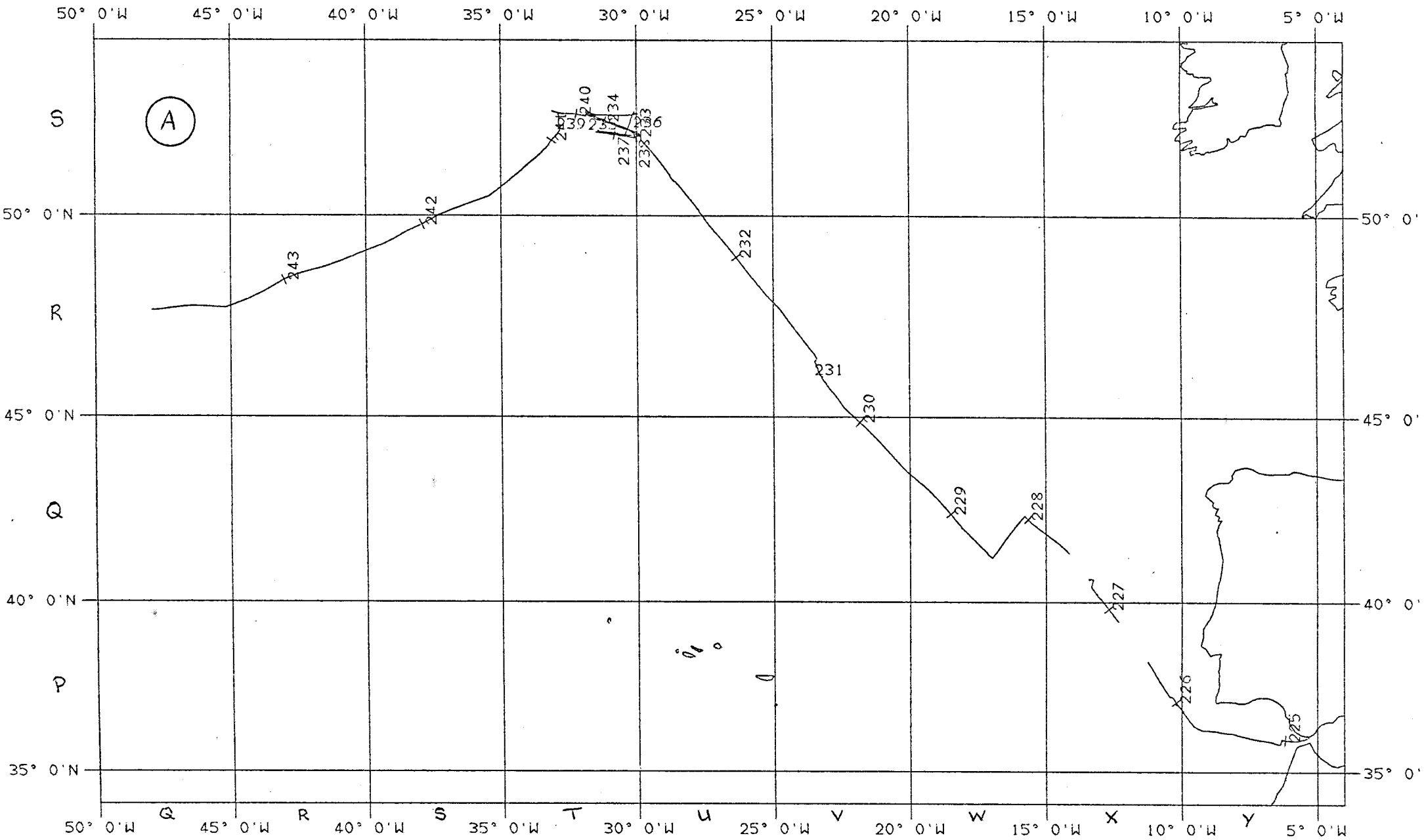
Start Port - Gibraltar
End Port - St. Johns

Data Starts - 1721z 12-Aug-82
Data Ends - 1836z 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 |
| ARR | 209 | 628 | 585 |
| ASR | 133 | 390 | 388 |
| ASS | 89 | 248 | 260 |
| ATS | 1495 | 936 | 4637 |
| AUR | 161 | 447 | 181 |
| AUS | 250 | 528 | 636 |
| AVR | 240 | 357 | 682 |
| AVQ | 142 | 402 | 50 |
| AWQ | 396 | 1183 | 1101 |
| AXP | 60 | 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 - 91845 LOC-BID Owner-RBW DPG/ST/2/3 Original
A1696 File 1, archive copy of above.
MGG copy - 90144 Density 1600bpi NLABEL File 4
Archive copy - MGG 1699 File 1

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

P.S.O. - Whitmarsh

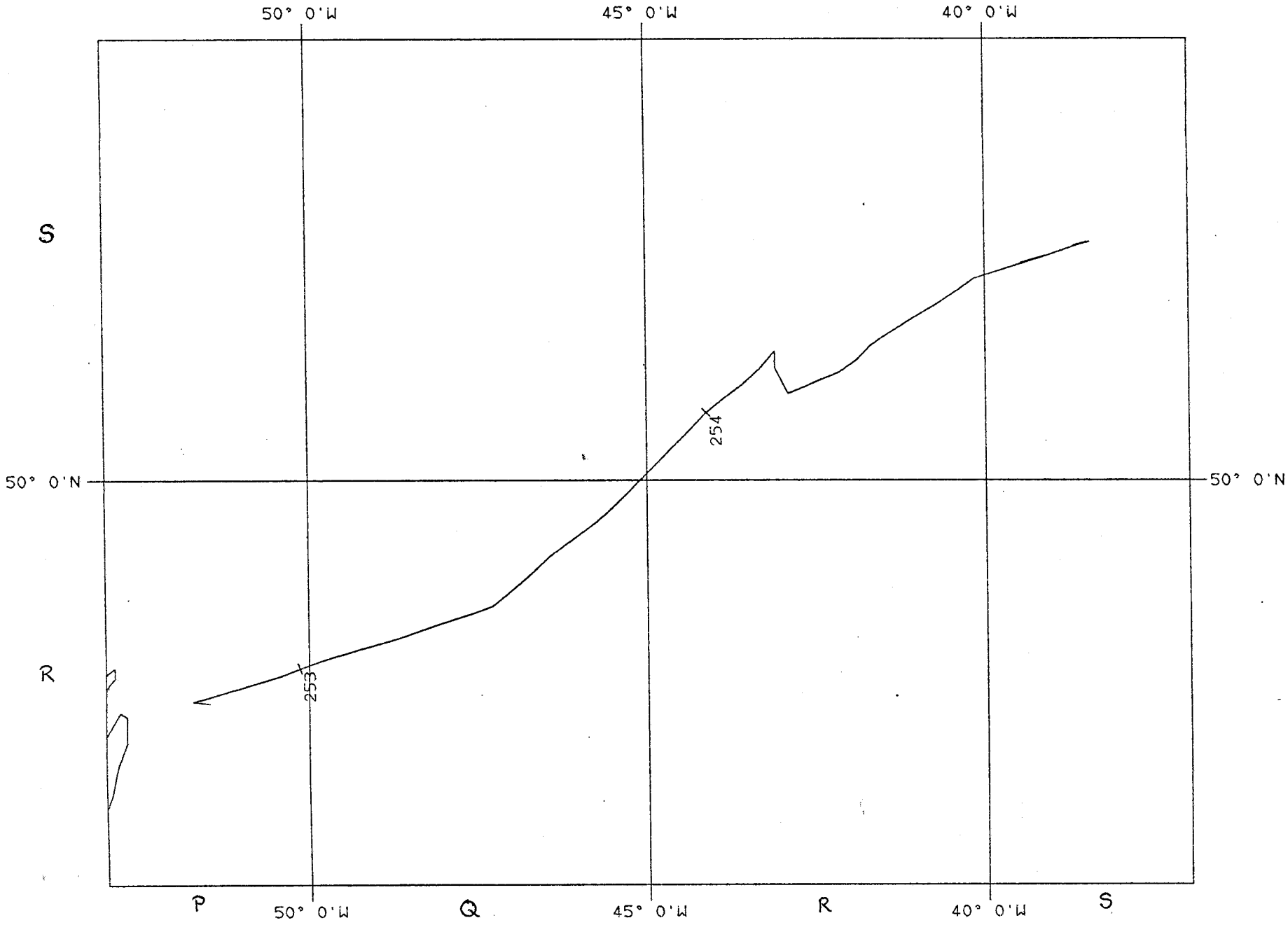
Start Port - St. Johns
End Port - Falmouth

Data Starts - 1818z 09-Sep-82
Data Ends - 2333z 11-Sep-82

Latitude minimum - 46.4N
Latitude maximum - 52.3N
Longitude minimum - 51.8W
Longitude maximum - 38.4W

Distribution of data for Discovery Cruise 131 Leg 2:-

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




DISCOVERY 131 LEG 2

Discovery Cruise 131 Leg 3

Magtapes:-

Original copy - 91859 LOC-BID Owner-RBW DPG/ST/2/3 Original
A1696 File 2, archive copy of above.
MGG copy - 90144 Density 1600bpi NLABEL File 5
Archive copy - MGG 1699 File 2

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

P.S.O. - Whitmarsh

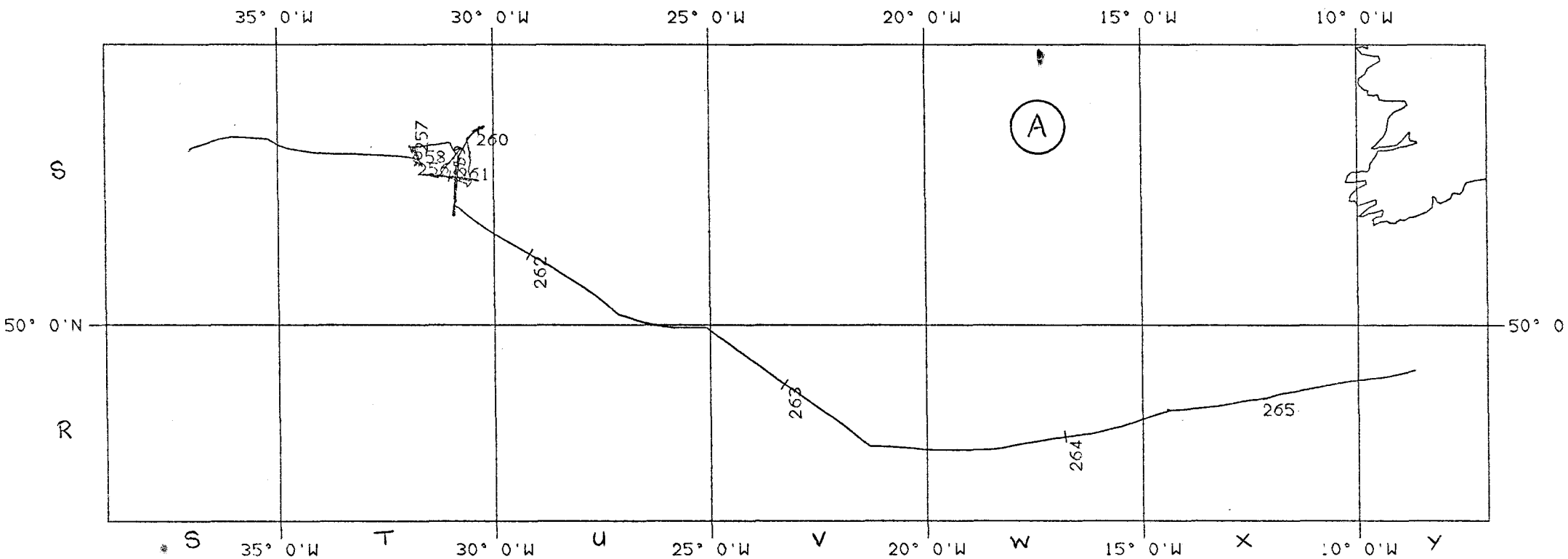
Start Port - St. Johns
End Port - Falmouth

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 - 8.6W

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 | 176 | 523 | 536 |
| AXR | 240 | 82 | 750 |
| AYR | 0 | 0 | 114 |
| Total | 2031 | 2418 | 7365 |




DISCOVERY 131 LEG 3

Discovery Cruise 134

Magtapes:-

Original copy - A1548 Archived Owner-MGG ASCII DEN16 80ch/blk MM
EOT marker at beginning of tape, use MGG/TAPE/TREAD
to read tape, edited on final MM version.
MGG copy - 90325 Density 1600bpi NLABEL File 1
Archive copy - MGG 1522

Total records - 17826
Bathymetry - 2997
Magnetics - 6166
Gravity - 5988

P.S.O. - Francis

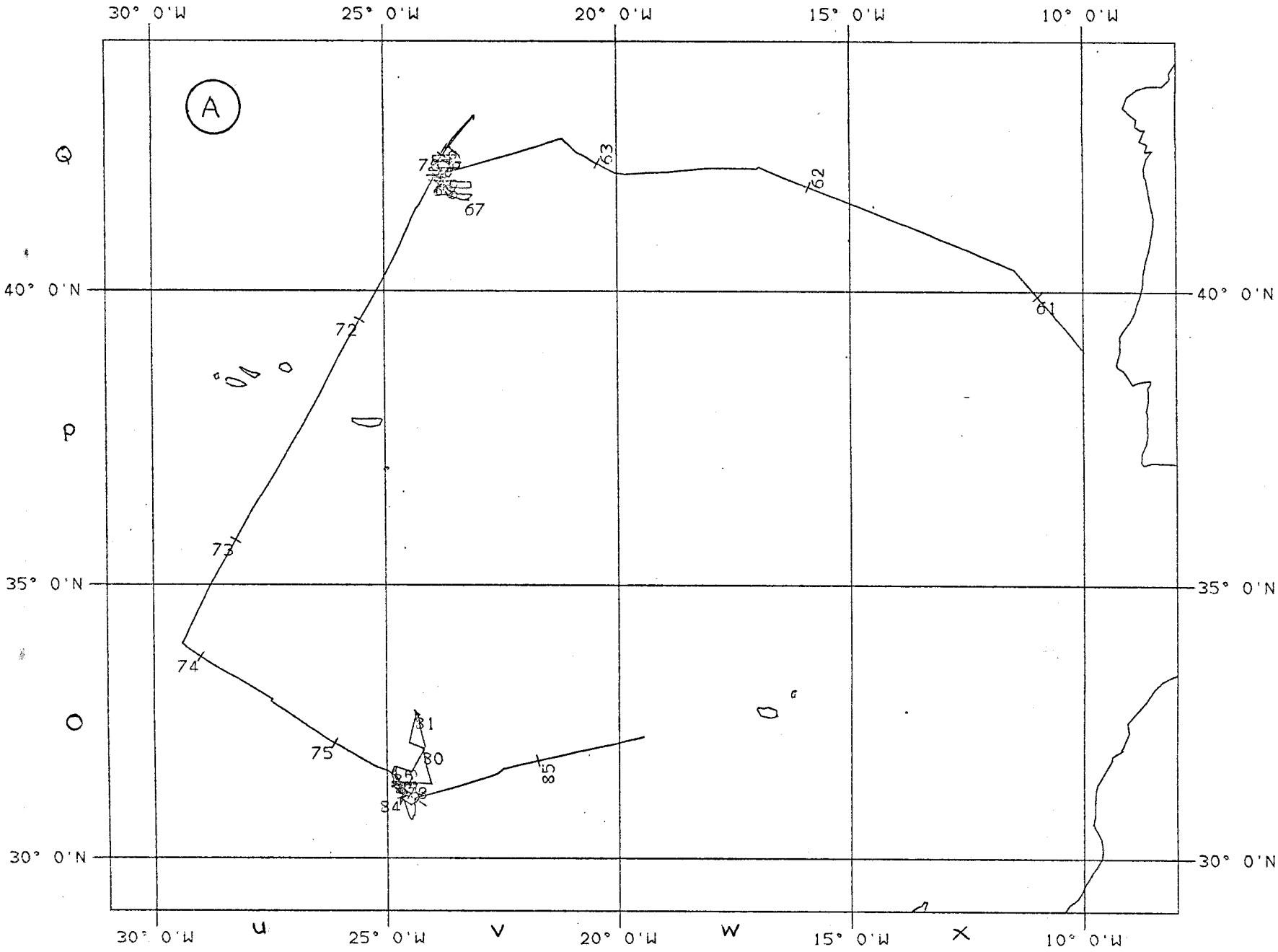
Start Port - Lisbon
End Port - Azores

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 | 343 | 967 | 1380 |
| AUP | 323 | 951 | 927 |
| AUQ | 16 | 50 | 44 |
| AVO | 866 | 672 | 729 |
| AVQ | 917 | 1953 | 1335 |
| AWO | 28 | 75 | 83 |
| AWQ | 235 | 704 | 690 |
| AXP | 75 | 220 | 219 |
| AXQ | 192 | 567 | 574 |
| AYP | 2 | 8 | 8 |
| Total | 2031 | 2418 | 7365 |




DISCOVERY 134

Discovery Cruise 142

Magtapes:-

Original copy - A1546 Archived Owner-MGG ASCII DEN16 80ch/blk MM CRUISE field 10 chars. long, YEAR starts in col. 14 (*in col. 13), edited on final MM version.
MGG copy - 90325 Density 1600bpi NLABEL File 2
Archive copy - MGG 1523

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

P.S.O. - Searle

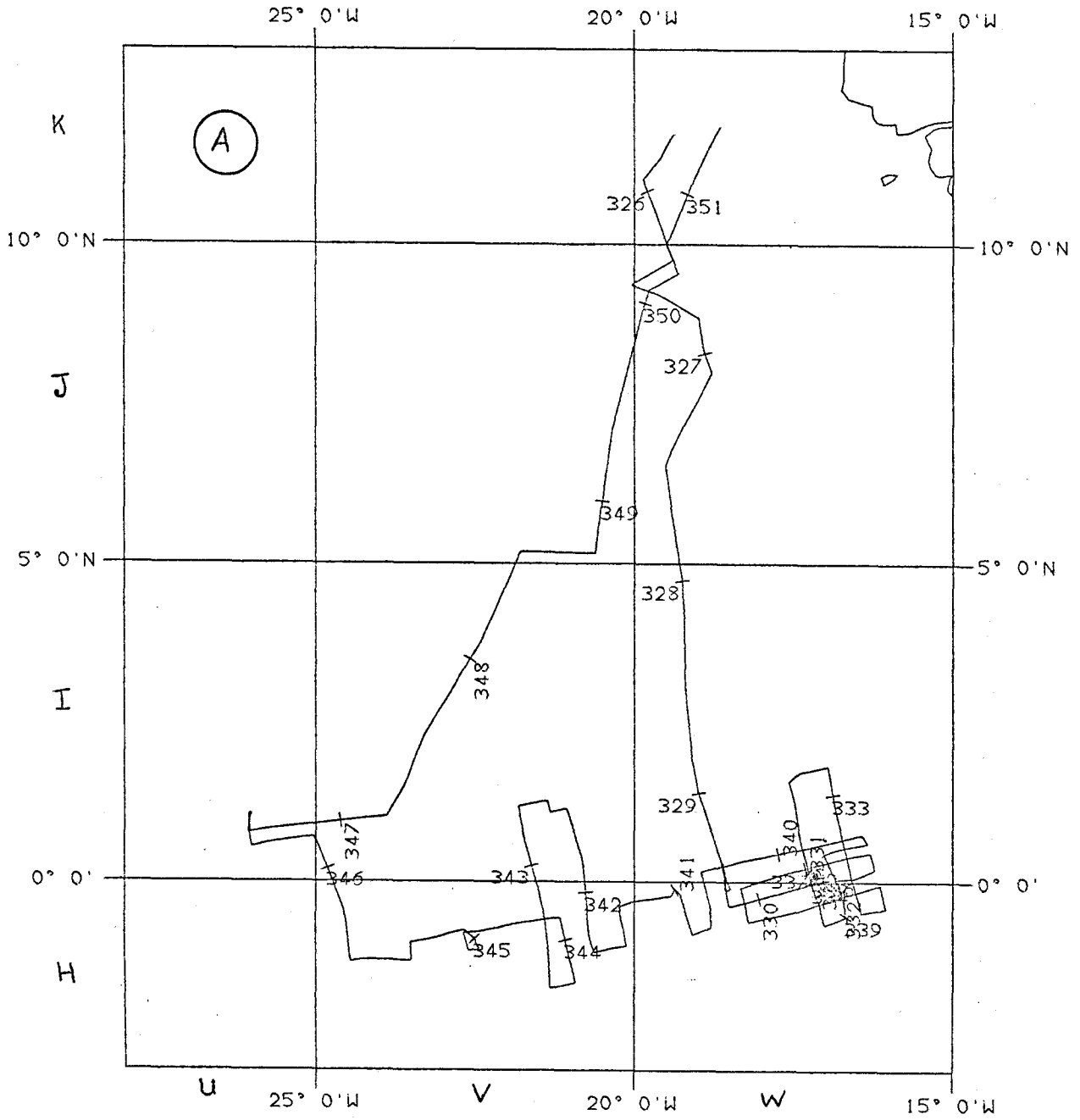
Start Port - Dakar
End Port - Dakar

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 | 3738 | 6647 |
| AWJ | 532 | 1512 | 1702 |
| AWK | 70 | 161 | 1008 |
| Total | 12400 | 13801 | 18006 |




DISCOVERY 142

Discovery Cruise 144

Magtapes:-

Original copy - A1547 Arcnived Owner-MGG ASCII DEN16 80ch/blk *MM Merge-merge format not entirely correct, edited on final version.
MGG copy - 90325 Density 1600bpi NLABEL File 3
Archive copy - MGG 1524

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

P.S.O. - Schultheiss

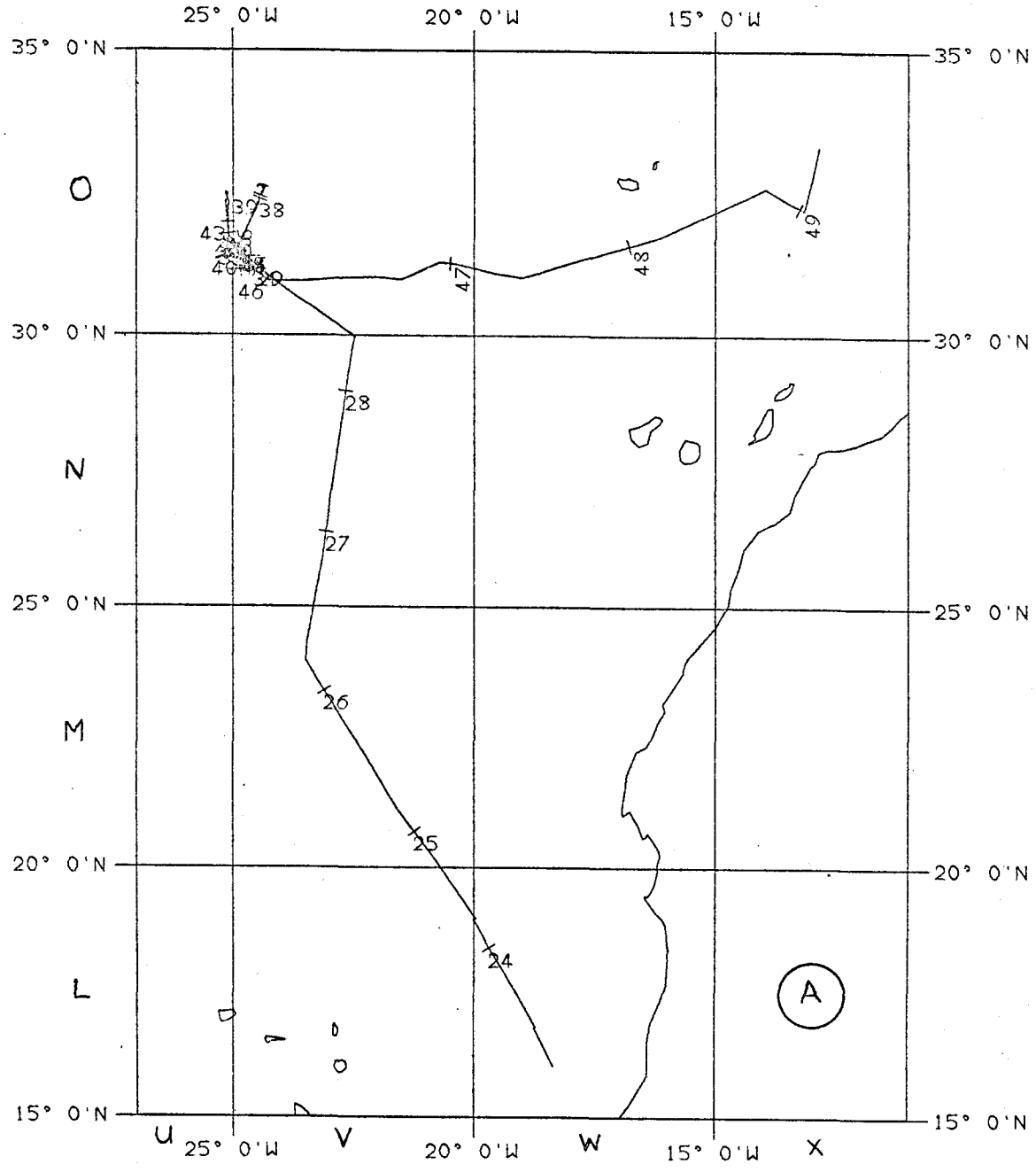
Start Port - Dakar
End Port - Gibraltar

Data Starts - 0250z 23-Jan-84
Data Ends - 0858z 18-Feb-84

Latitude minimum - 1o.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 | 631 | 629 |
| Total | 3017 | 5933 | 2541 |




DISCOVERY 144

Discovery Cruise 153

Magtapes:-

Original copy - A1051 LOC-BID Owner-MGG Ship's dump ASA9 18532 recs Mins in cols. 23-24 only, Matthews area cols. 64-65, Error in ResidMag 1702z-1922z 13/Nov/84 and 2306z-2358z 11/11/84, odd errors in Bathymetry, all edited out in final MM version.
MGG copy - 90370 Density 1600bpi NLABEL File 3
Archive copy - MGG A0945

Total records - 18532
Bathymetry - 3534
Magnetics - 6315
Gravity - none

P.S.O. - Searle

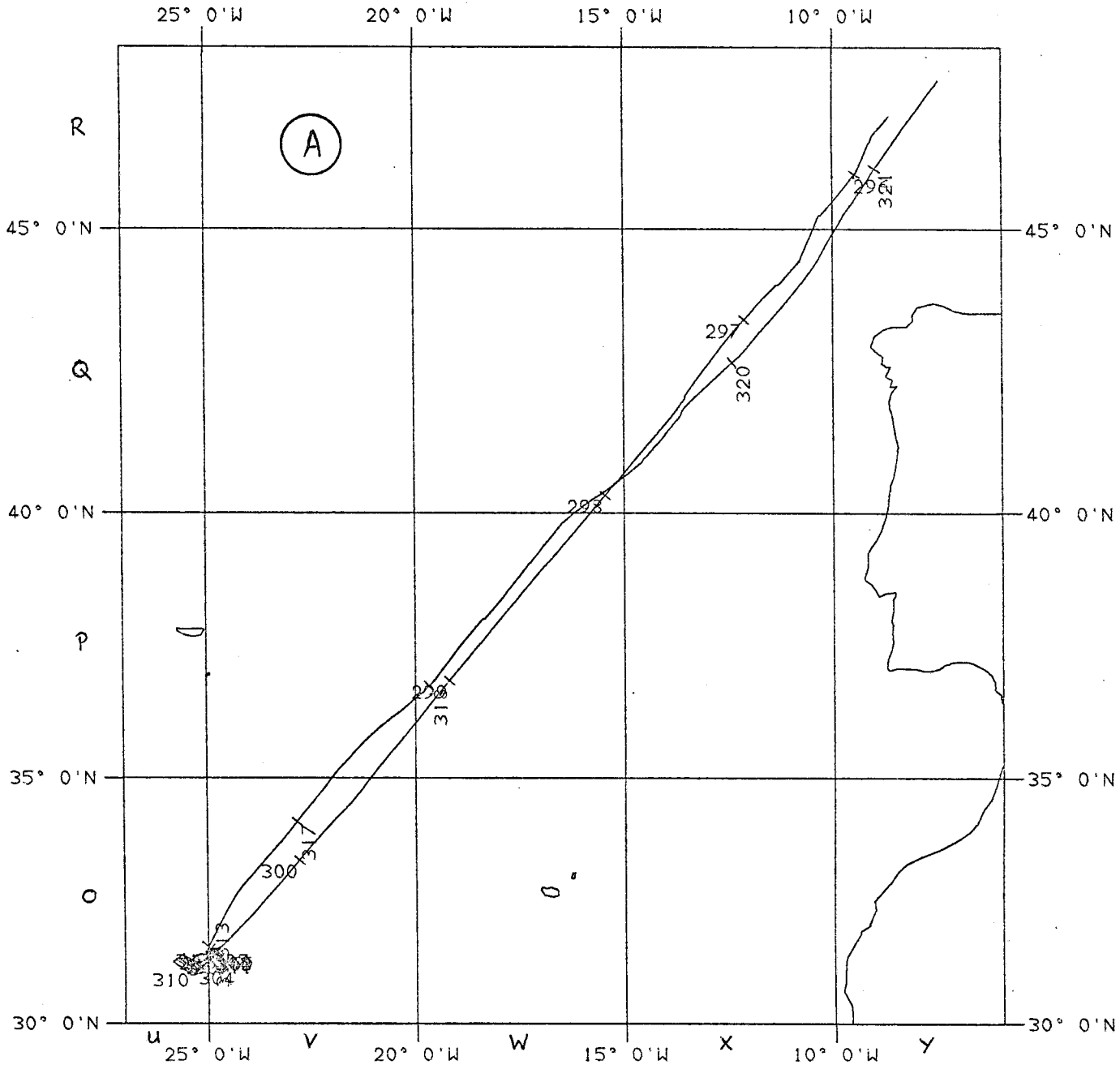
Start Port - Falmouth
End Port - Falmouth

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 | 348 | 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 - 90107 LOC-BID Owner-PRM Old#ISW67 Original MM
90111 LOC-BID Owner-PRM Old#ISW64 6532 recs DEN8
91240 LOC-BID Owner-GPH Starts 1000z 29/3/75 1950recs
1950recs DEN8 NLABEL
MGG copy - 90145 Density 1600bpi NLABEL File 1
Archive copy - MGG 1510 1515

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

P.S.O. - Whitmarsh

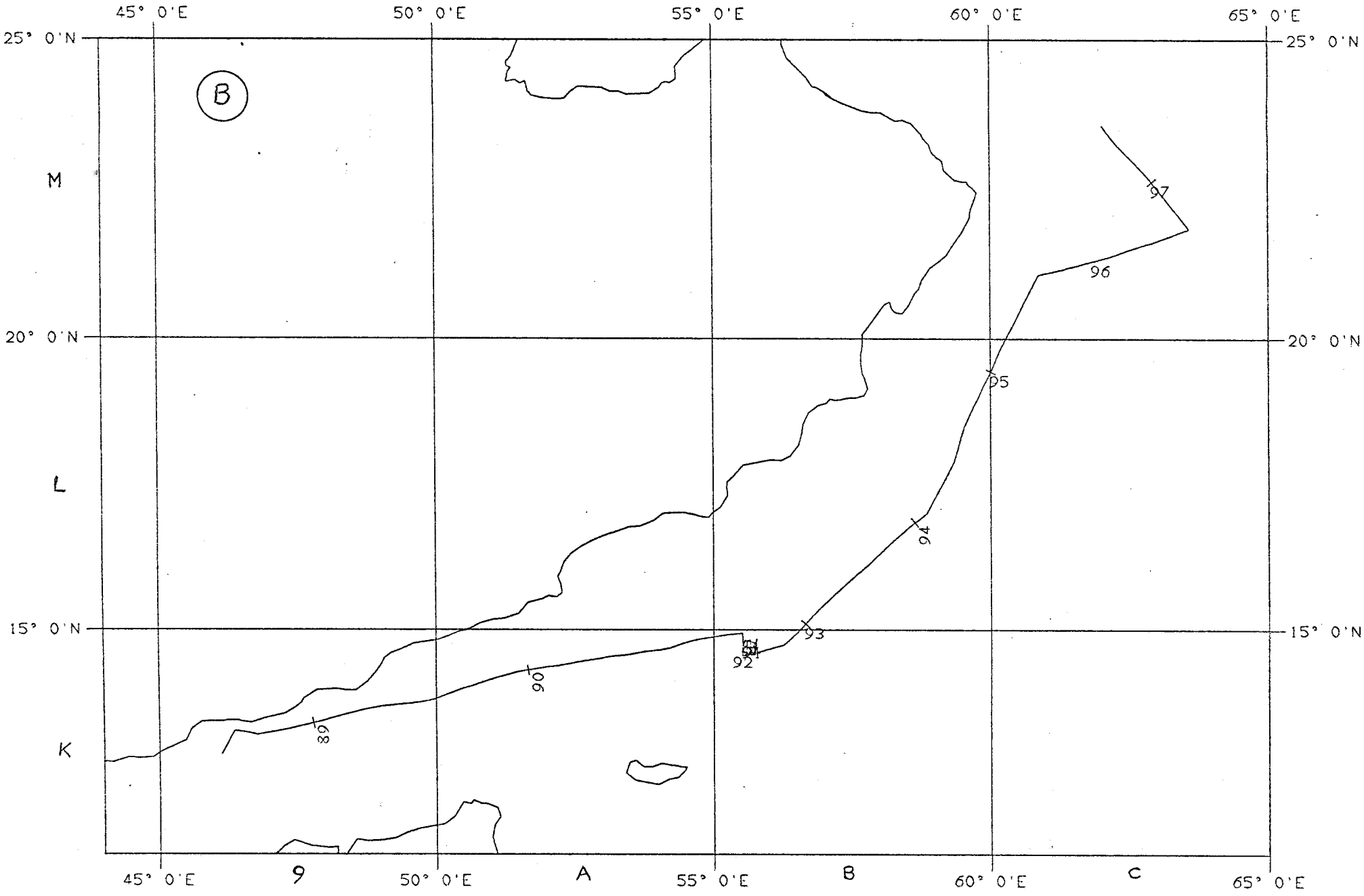
Start Port - Djibouti
End Port - Dubai

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 | 810 | 838 | 838 |
| BAK | 809 | 896 | 896 |
| BBK | 1254 | 957 | 1529 |
| BBL | 1437 | 1476 | 1476 |
| BCM | 1607 | 1602 | 1641 |
| BCL | 145 | 145 | 145 |
| Total | 6062 | 5914 | 6525 |




SHACKLETON 3/75

Shackleton Cruise 4/75

Magtapes:-

Original copy - 90687 LOC-BID Owner-GPH Old#IW193 Original GEOF1
90686 LOC-BID Owner-GPH Old#IW194 Original GEOF2
90635 LOC-BID Owner-PRM Old#IW197 Original GEOF1
90636 LOC-BID Owner-PRM Old#IW198 Original GEOF2
90605 LOC-BID Owner-PRM Old#IW190 Origianl MM
MGG copy - 90145 Density 1600bpi NLABEL File 2
Archive copy - MGG 1511 1516

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

P.S.O. - Whitmarsh

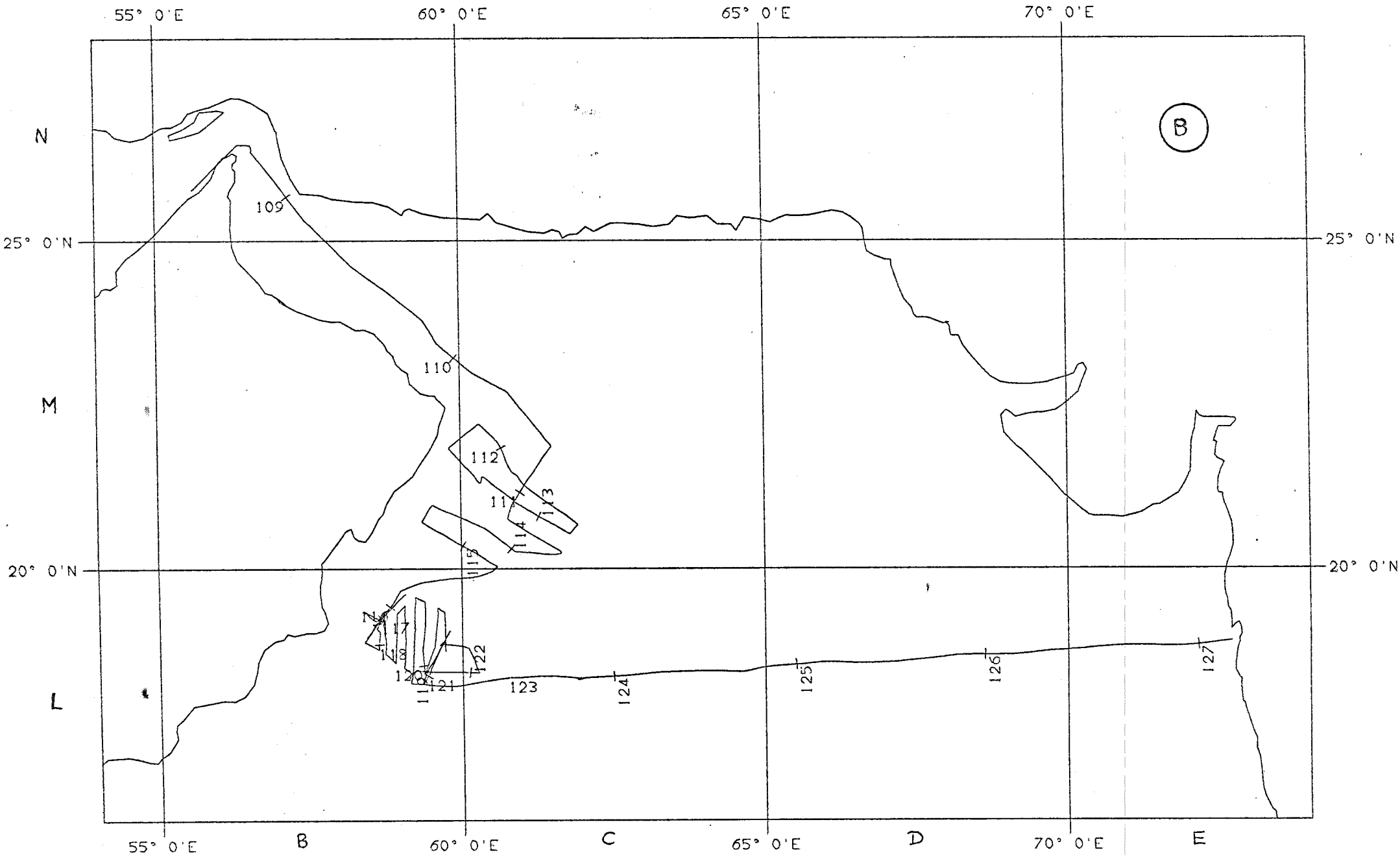
Start Port - Dubai
End Port - Bombay

Data Starts - 0954z 18-Apr-75
Data Ends - 0456z 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 | 4408 | 2940 | 4992 |
| BBM | 1128 | 1128 | 1128 |
| BBN | 108 | 106 | 591 |
| BCL | 1712 | 1651 | 1864 |
| BCM | 3192 | 3192 | 3105 |
| BDL | 1122 | 1122 | 1122 |
| BEL | 81 | 52 | 584 |
| Total | 11751 | 10191 | 13386 |




SHACKLETON 4/75

Shackleton Cruise 3/76 Leg 2

Magtapes:-

Original copy - 90911 LOC-BID Owner-PRM Original MM
MGG copy - 90145 Density 1600bpi NLABEL File 3
Archive copy - MGG 1512 1517

Total records - 2396
Bathymetry - 2386
Magnetics - 1645
Gravity - 2385

P.S.O. - Whitmarsh

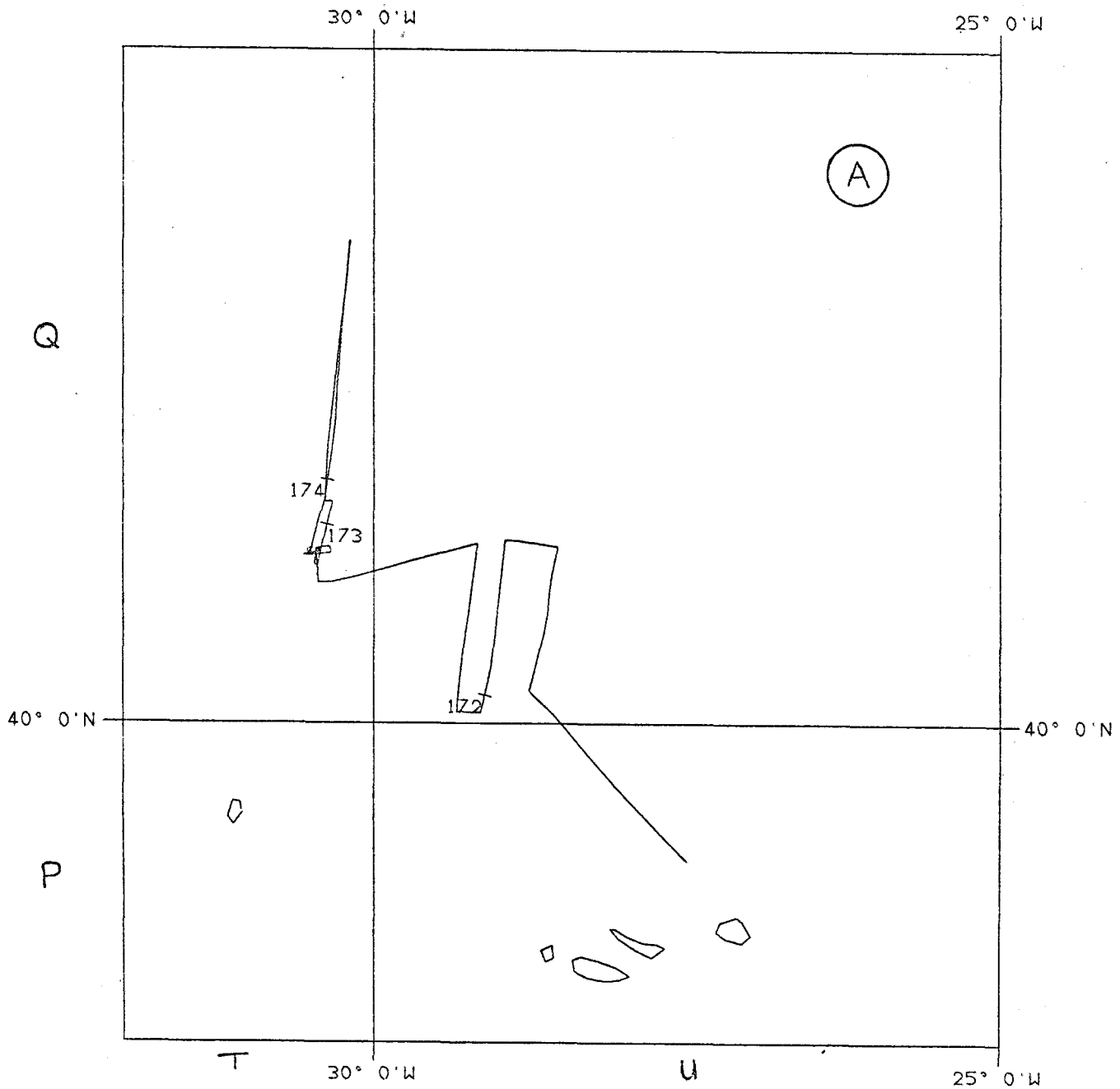
Start Port - Azores
End Port - Barry

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 3/76 LEG 2

Shackleton Cruise 6/76

Magtapes:-

Original copy - 90609 LOC-3ID Owner-PRM Old#IW189 Original MM
Bad record between 0442z-0448z Day 304, line of $$$$$'s
MGG copy - 90145 Density 1600bpi NLABEL File 4
Archive copy - MGG 1513 1518

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

P.S.O. - Roberts

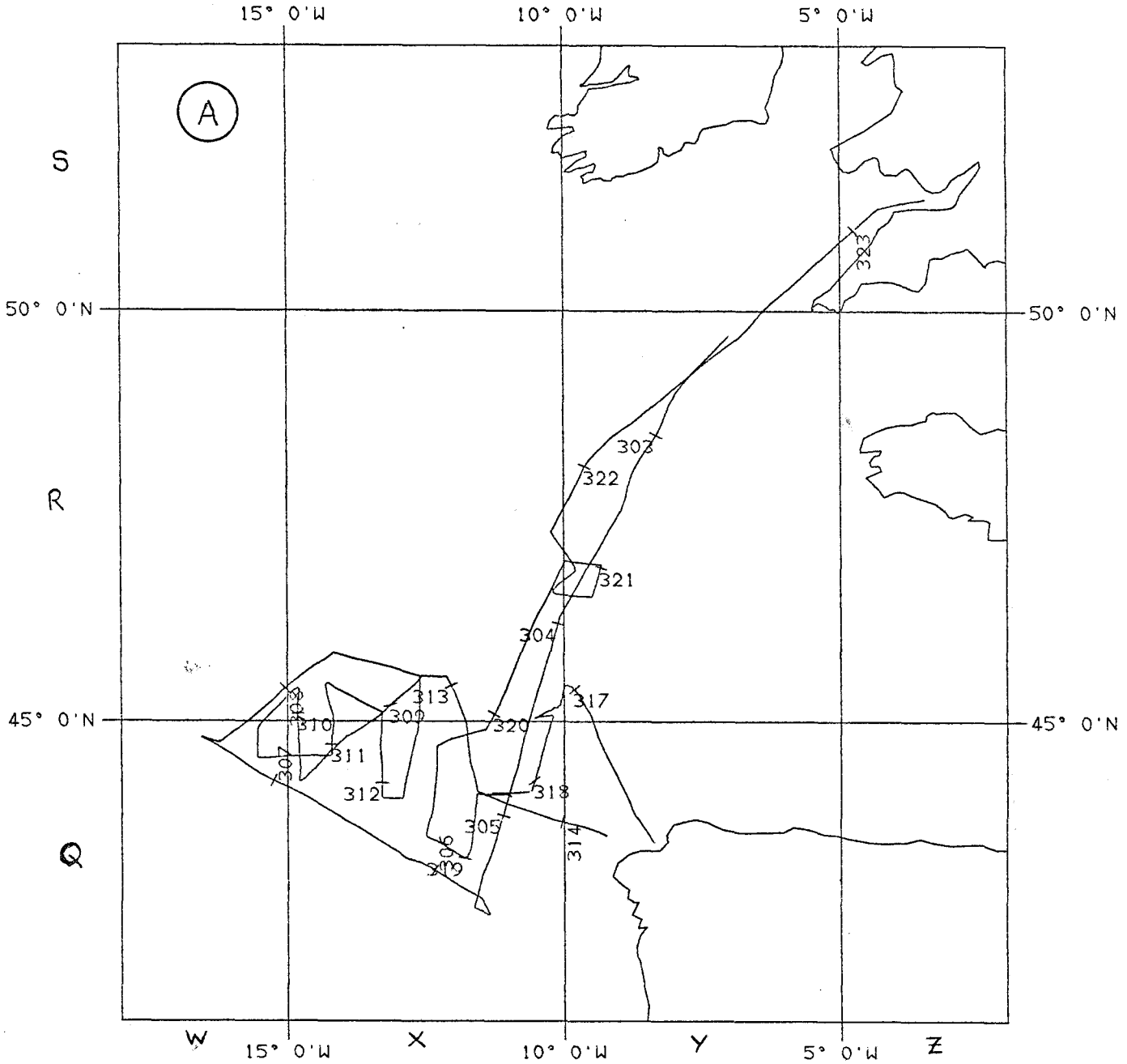
Start Port - Barry
End Port - Barry

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

Latitude minimum - 42.3N
Latitude maximum - 51.3N
Longitude minimum - 16.6W
Longitude maximum - 3.4W

Distribution of data for Shackleton Cruise 6/76:-

| Geographical Area Code | B | M | G |
|---|---|---|---|
| AWQ | 840 | 844 | 844 |
| AWR | 318 | 318 | 318 |
| AXQ | 5110 | 4993 | 4812 |
| AXR | 3353 | 3320 | 3011 |
| AYR | 2211 | 1891 | 2329 |
| AYS | 202 | 0 | 202 |
| AZS | 32 | 0 | 182 |
| Total | 12693 | 11958 | 12391 |




SHACKLETON 6/76

Shackleton Cruise 8/77

Magtapes:-

Original copy - 91314 LOC-BID Owner-PRM Old#231921 Blacknest Data
91726 LOC-BID Owner-GPH MM,ASCII 12275recs DEN8
EBCDIC
MGG copy - 90145 Density 1600bpi NLABEL File 5
Archive copy - MGG 1514 1519

Total records - 12274
Bathymetry - 10563
Magnetics - 6445
Gravity - 8990

P.S.O. - Francis

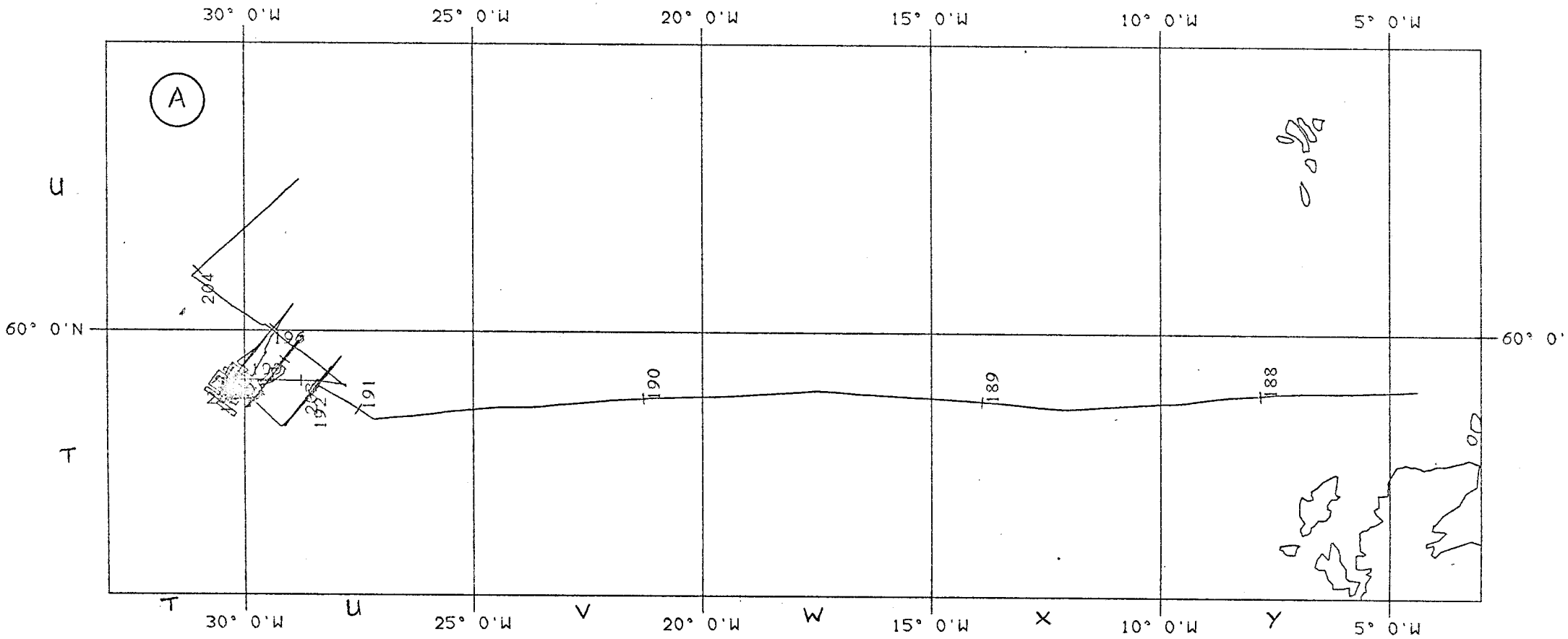
Start Port - Aberdeen
End Port - Reykjavik

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 | 3896 | 1899 | 2385 |
| AUU | 422 | 346 | 238 |
| AVT | 536 | 536 | 534 |
| AWT | 486 | 486 | 486 |
| AXT | 508 | 508 | 508 |
| AYT | 717 | 674 | 709 |
| AZT | 59 | 59 | 59 |
| Total | 10564 | 6446 | 8991 |




SHACKLETON 8/77

Shackleton Cruise 6/79 Leg 1

Magtapes:-

Original copy - 92346 LOC-BID Owner-RBW Original MM 8339recs
*****'s on original, removed in final MM version
MGG copy - 90308 Density 1600bpi NLABEL File 1
Archive copy - MGG 1520 1525

Total records - 8338
Bathymetry - 5145
Magnetics - 0
Gravity - 8116

P.S.O. - Whitmarsh

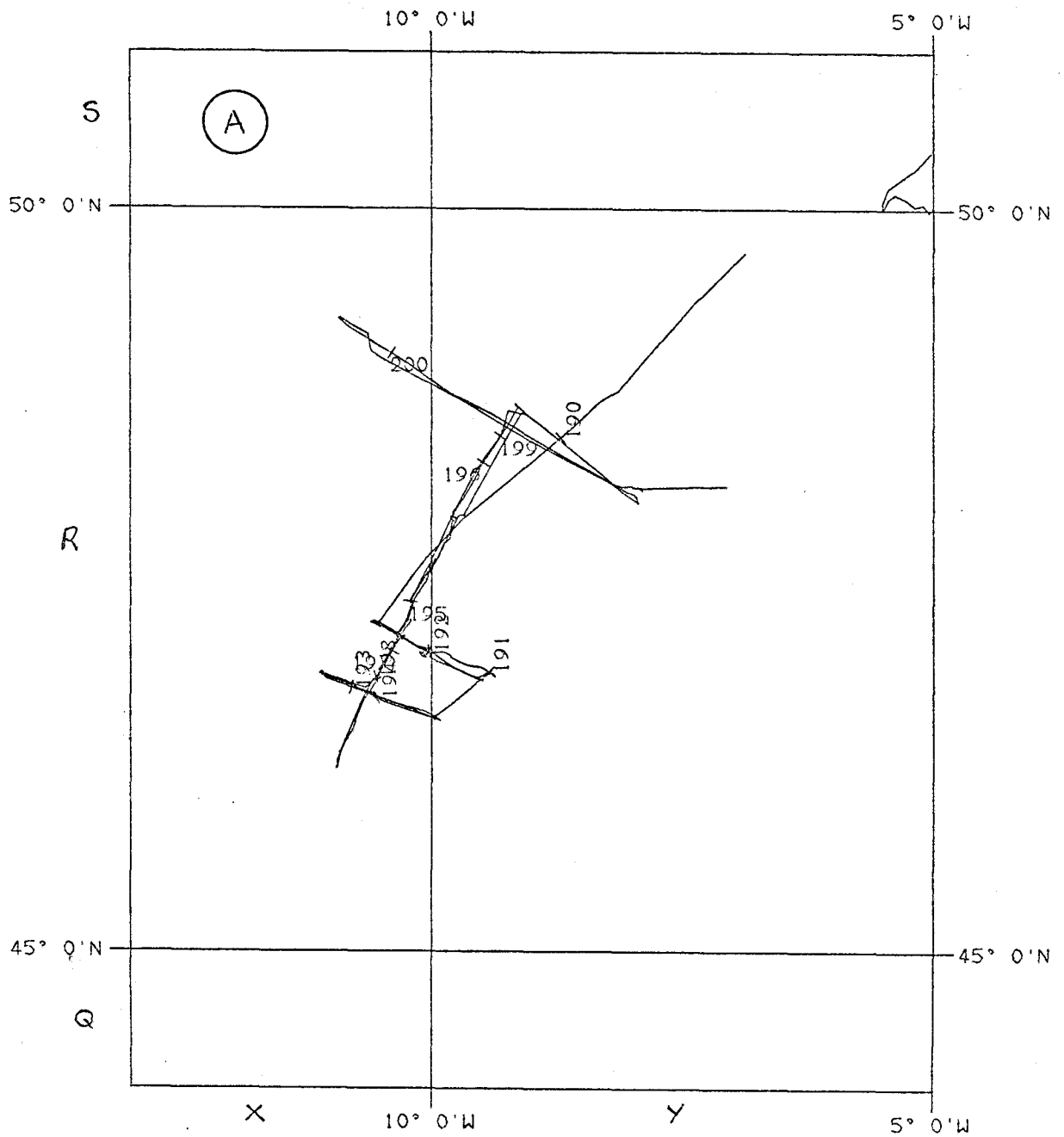
Start Port - Barry
End Port - Brest

Data Starts - 0956z 08-Jul-79
Data Ends - 2350z 19-Jul-79

Latitude minimum - 46.2N
Latitude maximum - 49.7N
Longitude minimum - 11.2W
Longitude maximum - 6.7W

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

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




SHACKLETON 6/79 LEG 1

Shackleton Cruise 6/79 Leg 2

Magtapes:-

Original copy - 90623 LOC-3ID Owner-PRM Orig. MM 5651recs NLABEL 120recs/block, *****'s on orig. removed on MM version.
MGG copy - 90308 Density 1600bpi NLABEL File 2
Archive copy - MGG 1521 1526

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

P.S.O. - Roberts

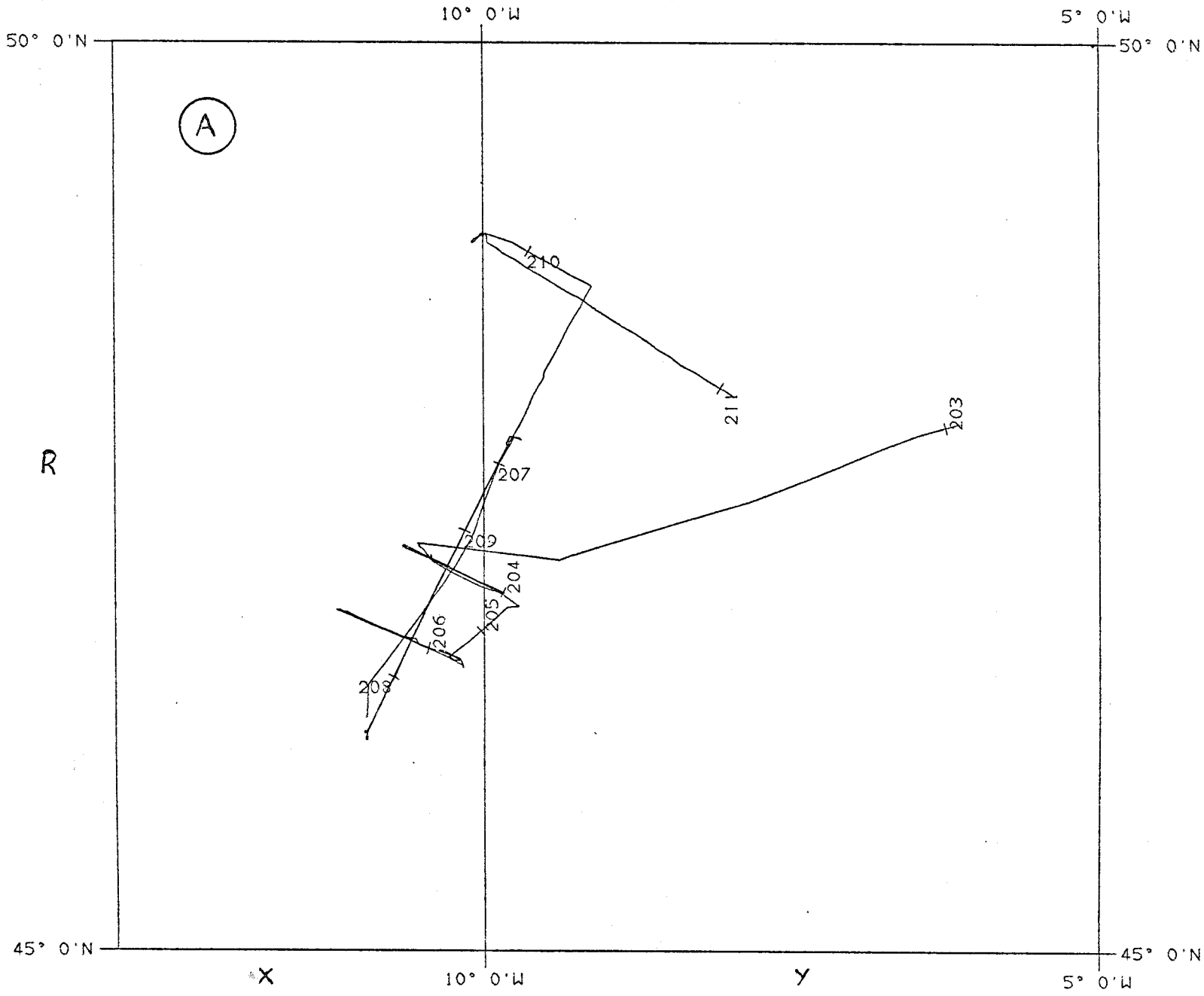
Start Port - Brest
End Port - Barry

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 - 6.1W

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 - 92359 LOC-BID Owner-PRM EBCDIC DEN8 6933recs
MGG copy - 90308 Density 1600bpi NLABEL File 3
Archive copy - MGG 1693 1697

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

P.S.O. - Roberts

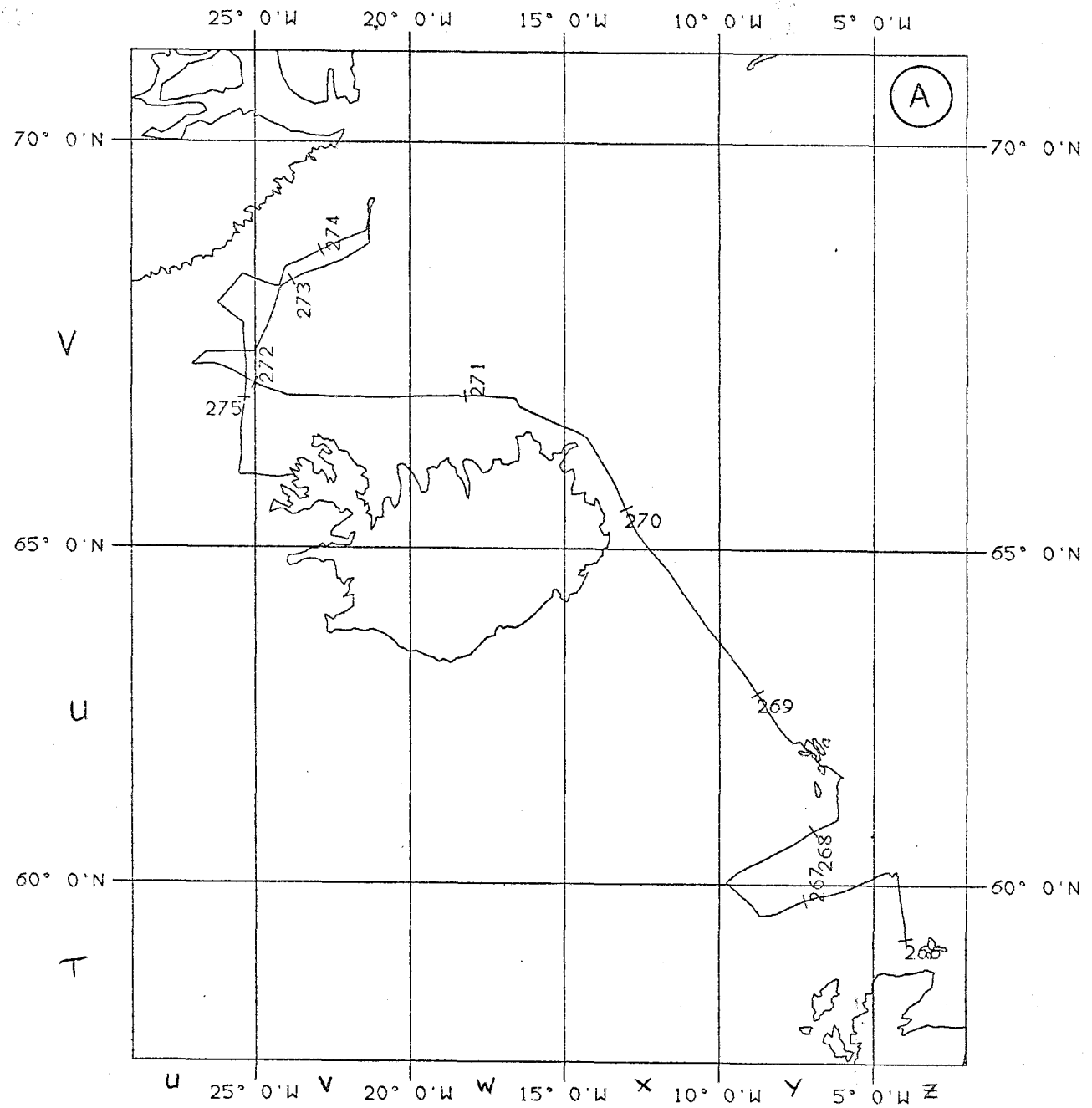
Start Port - Hull
End Port - Woods Hole, U.S.A.

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 - 3.8W

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 |


25° 0'W
20° 0'W
15° 0'W
10° 0'W
5° 0'W
A
70° 0'N
65° 0'N
60° 0'N
274
273
272
275
271
270
269
268
267
266
V
U
T
U
V
W
X
Y
Z

STARELLA 1A

Starella 1 part B

Magtapes:-

Original copy - 92360 LOC-BID Owner-PRM EBCDIC DEN8
Contains many errors in both magnetics and gravity data, edited out on MM version.
MGG copy - 90308 Density 1600bpi NLABEL File 4
Archive copy - MGG 1694 1723

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

P.S.O. - Roberts

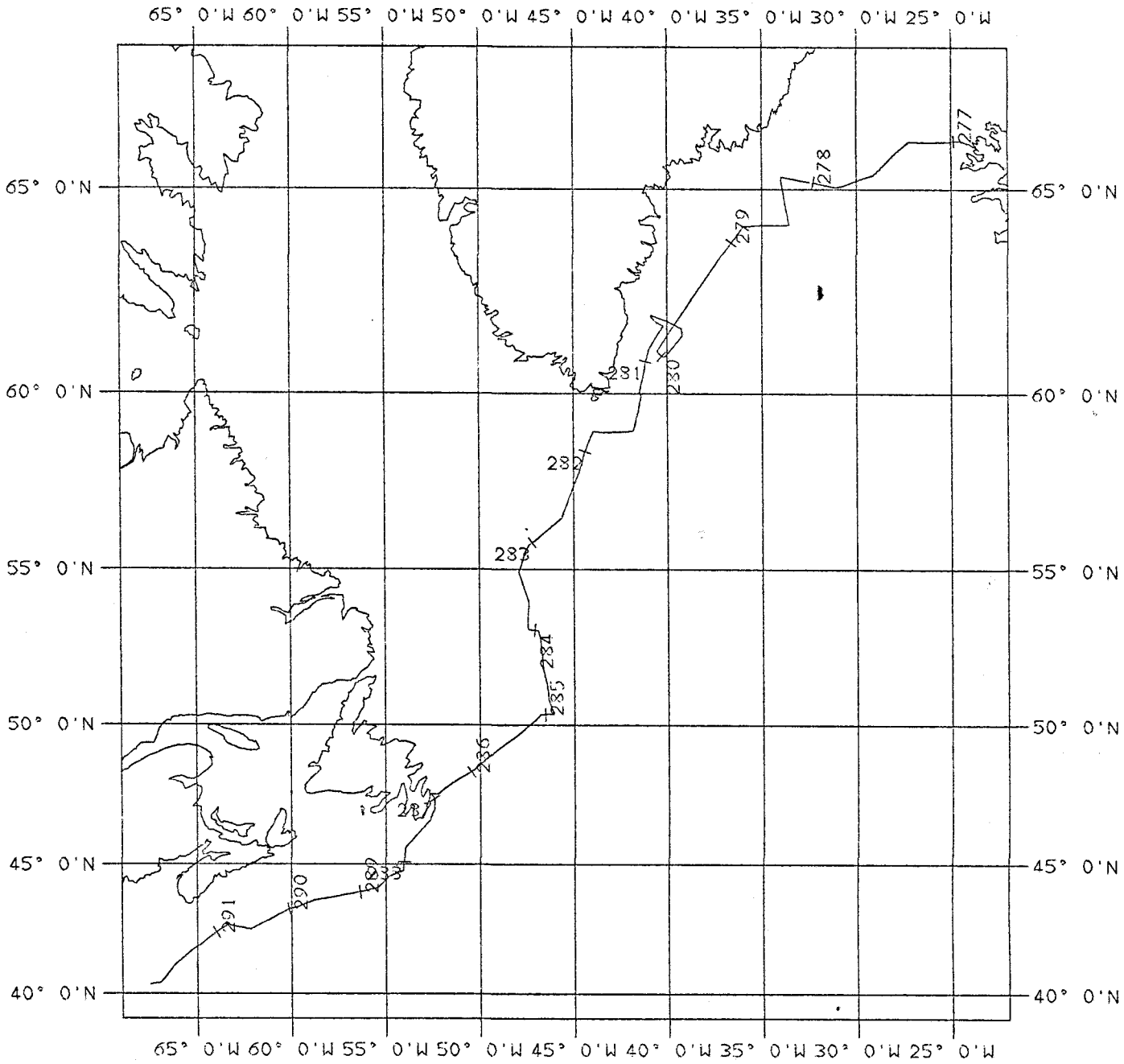
Start Port - Hull
End Port - Woods Hole, U.S.A.

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 | 484 | 0 | 0 |
| ANQ | 927 | 0 | 0 |
| AOQ | 1078 | 0 | 0 |
| APQ | 306 | 0 | 0 |
| APR | 1177 | 0 | 0 |
| AQR | 466 | 0 | 0 |
| AQS | 1382 | 0 | 0 |
| AQT | 720 | 0 | 0 |
| ART | 769 | 192 | 192 |
| ARU | 796 | 798 | 759 |
| ASU | 984 | 991 | 937 |
| ATU | 320 | 320 | 303 |
| ATV | 445 | 445 | 445 |
| AUV | 478 | 478 | 478 |
| AVV | 134 | 3 | 148 |
| Total | 10466 | 3227 | 3262 |


65° 0'W 60° 0'W 55° 0'W 50° 0'W 45° 0'W 40° 0'W 35° 0'W 30° 0'W 25° 0'W
65° 0'N
60° 0'N
55° 0'N
50° 0'N
45° 0'N
40° 0'N
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291

STARELLA 1B

Farnella 2/81 Leg 1

Magtapes:-

Original copy - 92344 LOC-BID Owner-SHIP, Orig ODD PARITY, incomplete data.
92776 LOC-BID Owner-MRS Orig-MM 12338recs, covers 0000z Day 269 to 100z Day 286, Matthews areas in cols. 63 & 64, edited out on MM version. Gravity in mgals*10.
MGG copy - 90312 Density 1600bpi NLABEL File 1
Archive copy - MGG 1687 1713

Total records - 12337
Bathymetry - 11918
Magnetics - 10580
Gravity - 11725

P.S.O. - Somers

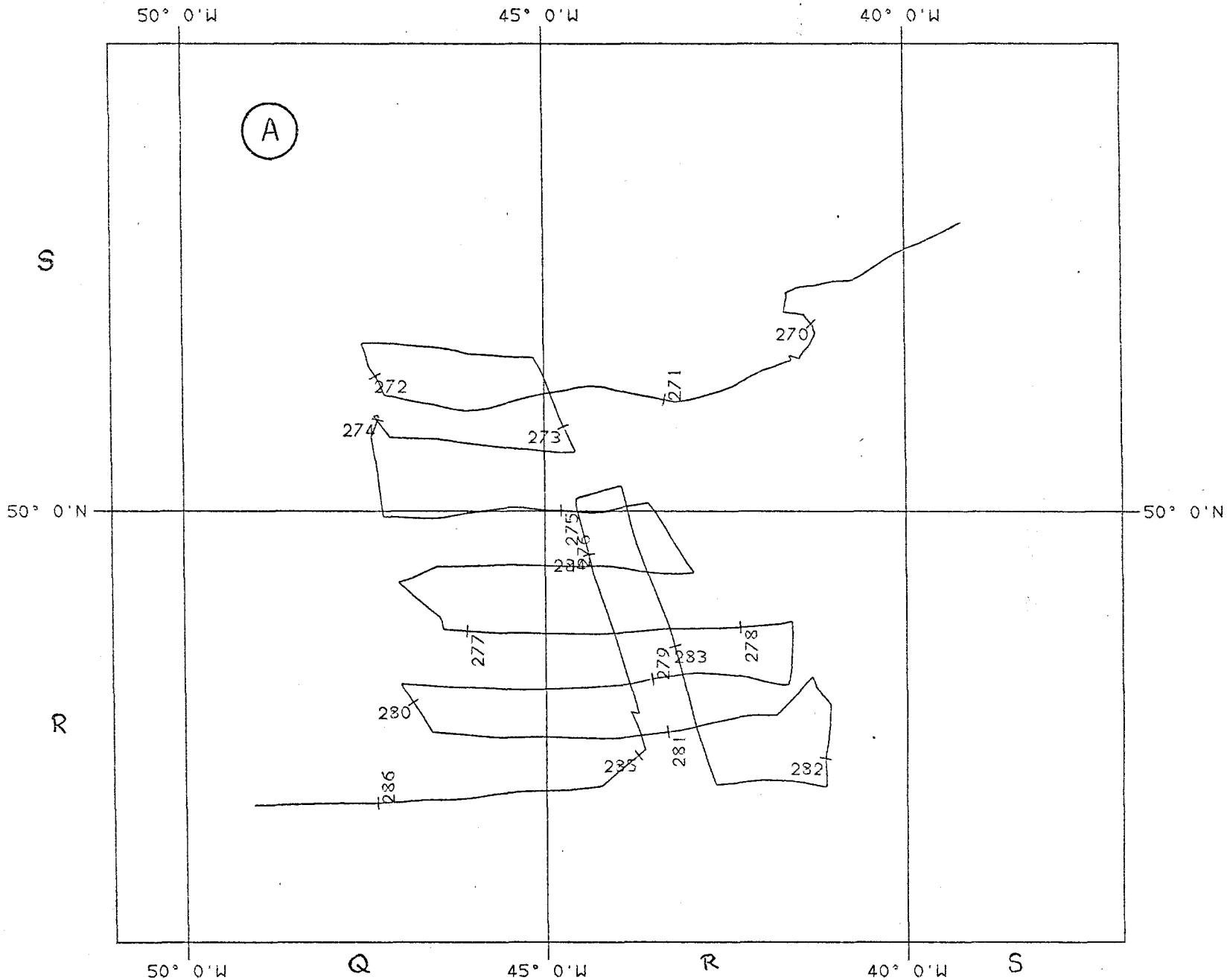
Start Port - Hull
End Port - St. Johns

Data Starts - 0000z 26-Sep-81
Data Ends - 1000z 13-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 |
|---|---|---|---|
| AQR | 2714 | 2714 | 2714 |
| AQS | 1852 | 1776 | 1848 |
| ARR | 5231 | 5184 | 5206 |
| ARS | 2121 | 906 | 1831 |
| ASS | 0 | 0 | 127 |
| Total | 11918 | 10580 | 11726 |




FARNELLA 2/81 LEG 1

Farnella 2/81 Leg 2

Magtapes:-

Original copy - 92345 LOC-BID Owner-SHIP, Orig ODD PARITY
Incomplete data.
90913 LOC-BID Owner-MRS Orig-MM Leg 2
Labelled 3/81. Covers 0740z Day 291 to
2130z Day 307 as 91479 but extra day at
at beginning. EOF at beginning, 11936 recs
in file, then EOF mark plus 3552 recs of
garbage, reads in Binary.
91749 LOC-BID Owner-MRS Original-MM
Covers 0740z Day 292 to 2130z Day 307, file
mark at start of tape, two at end.
MGG copy - 90312 Density 1600bpi NLABEL File 2
Archive copy - MGG 1638 1714

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

P.S.O. - Revie

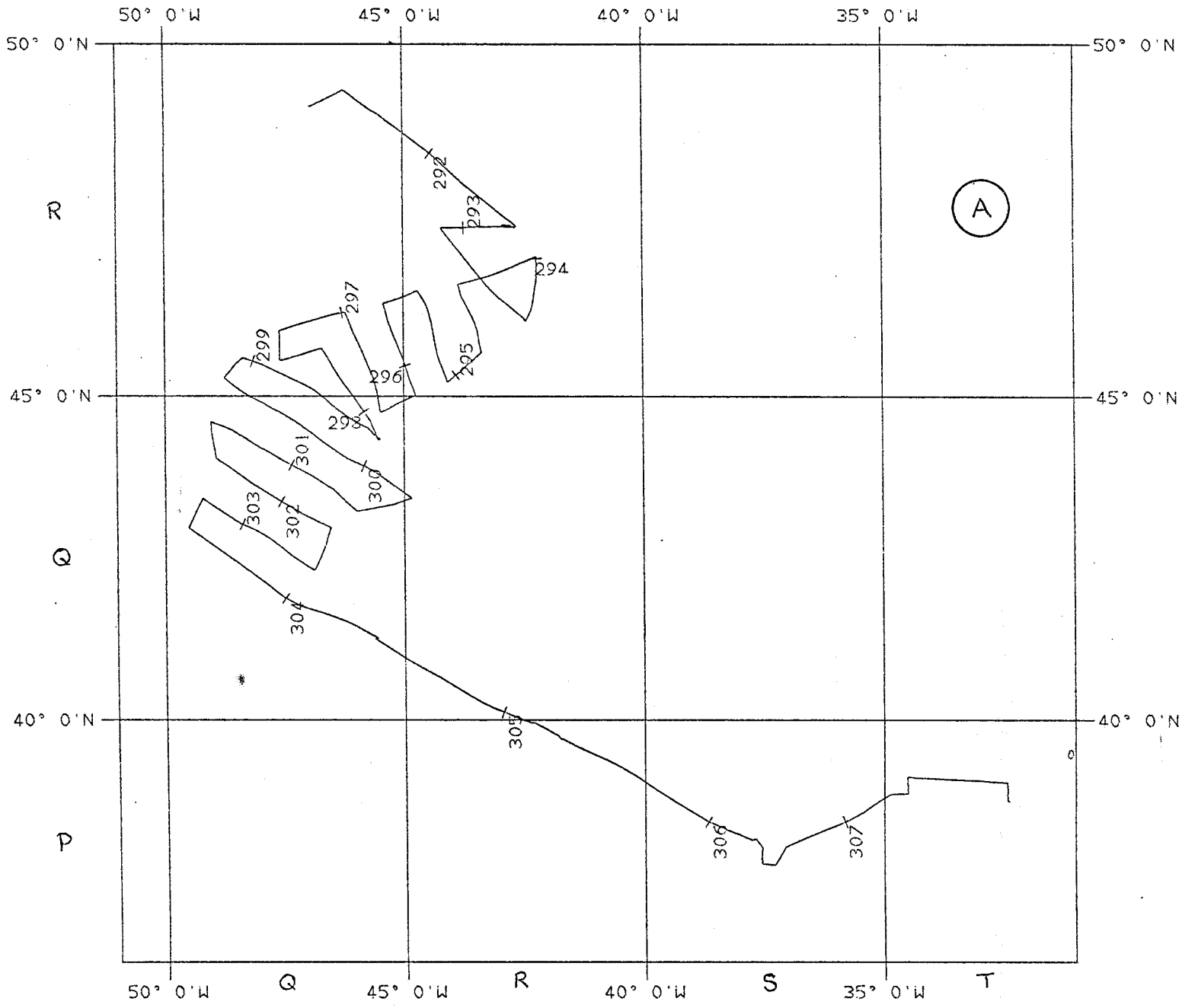
Start Port - St. Johns
End Port - Azores

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

Latitude minimum - 37.6N
Latitude maximum - 49.4N
Longitude minimum - 49.6W
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 | 383 | 405 |
| ARQ | 438 | 449 | 449 |
| ARR | 2832 | 2712 | 2787 |
| ASP | 1014 | 959 | 1003 |
| Total | 11130 | 11101 | 11150 |




FARNELLA 2/81 LEG 2

Farnella 3/81

Magtapes:-

Original copy - 93140 LOC-BID Owner-MRS, Orig-MM, ASA9 DENS
ODDPAR NRZ
Orig from 1134. Filemark at beginning of tape, use SKIP.
MGG copy - 90312 Density 1600bpi NLABEL File 3
Archive copy - MGG 1689 1715

Total records - 13025
Bathymetry - 12682
Magnetics - 12915
Gravity - 12950

P.S.O. - Searle

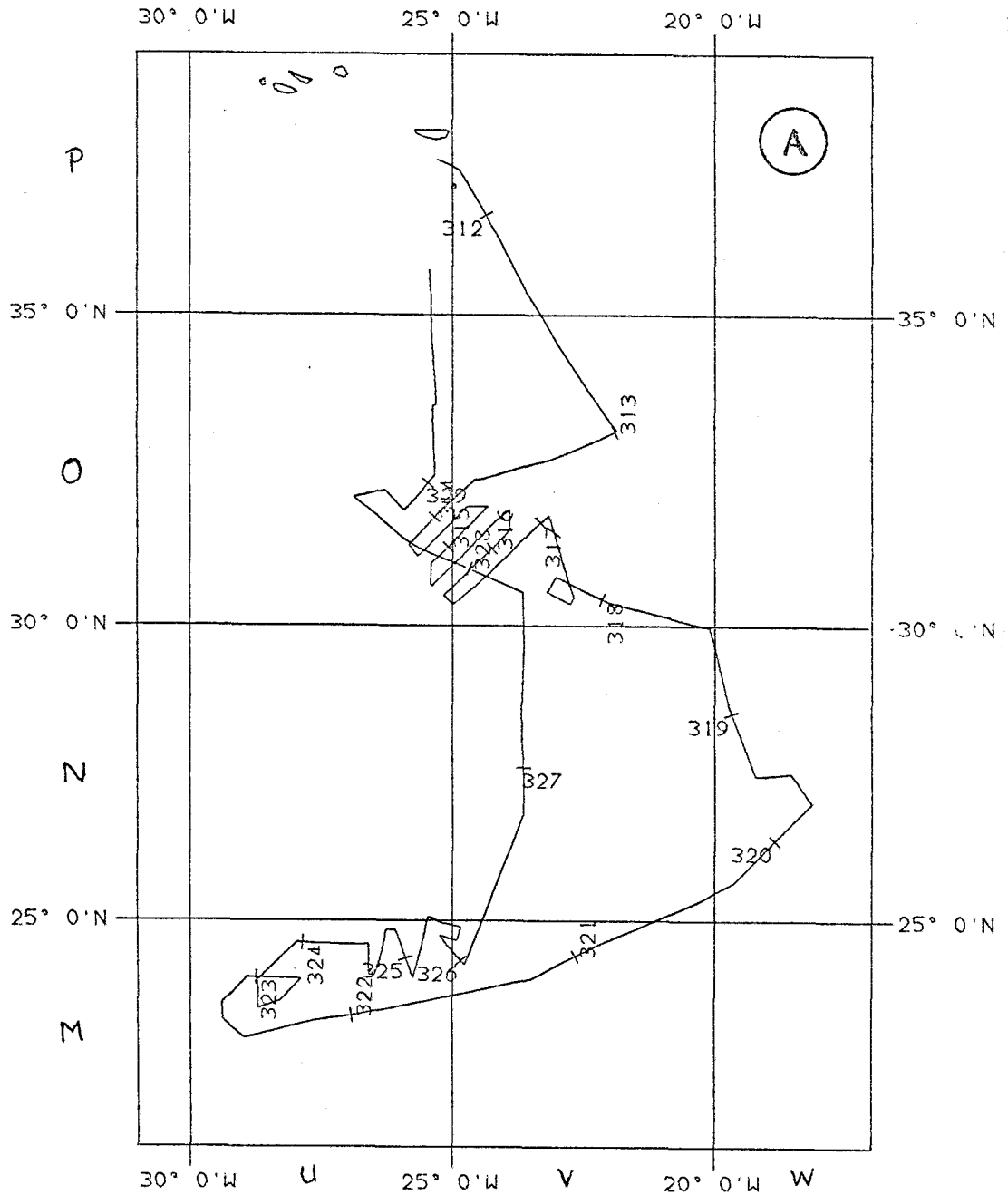
Start Port - Azores
End Port - Azores

Data Starts - 1722z 07-Nov-81
Data Ends - 1932z 25-Nov-81

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 | 2980 | 2995 | 2928 |
| AUN | 50 | 50 | 50 |
| AUO | 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 |
| Total | 12682 | 12916 | 12915 |




FARNELLA 3/81

Farnella 4/81

Magtapes:-

Original copy - 90654 LOC-BID Owner-MRS, Orig-MM, ASA9 DEN8 ODDPAR NRZ
Orig from 1134. Filemark at beginning of tape, use SKIP.
MGG copy - 90312 Density 1600bpi NLABEL File 4
Archive copy - MGG 1690 1716

Total records - 12864
Bathymetry - 11678
Magnetics - 10902
Gravity - 12856

P.S.O. - Searle

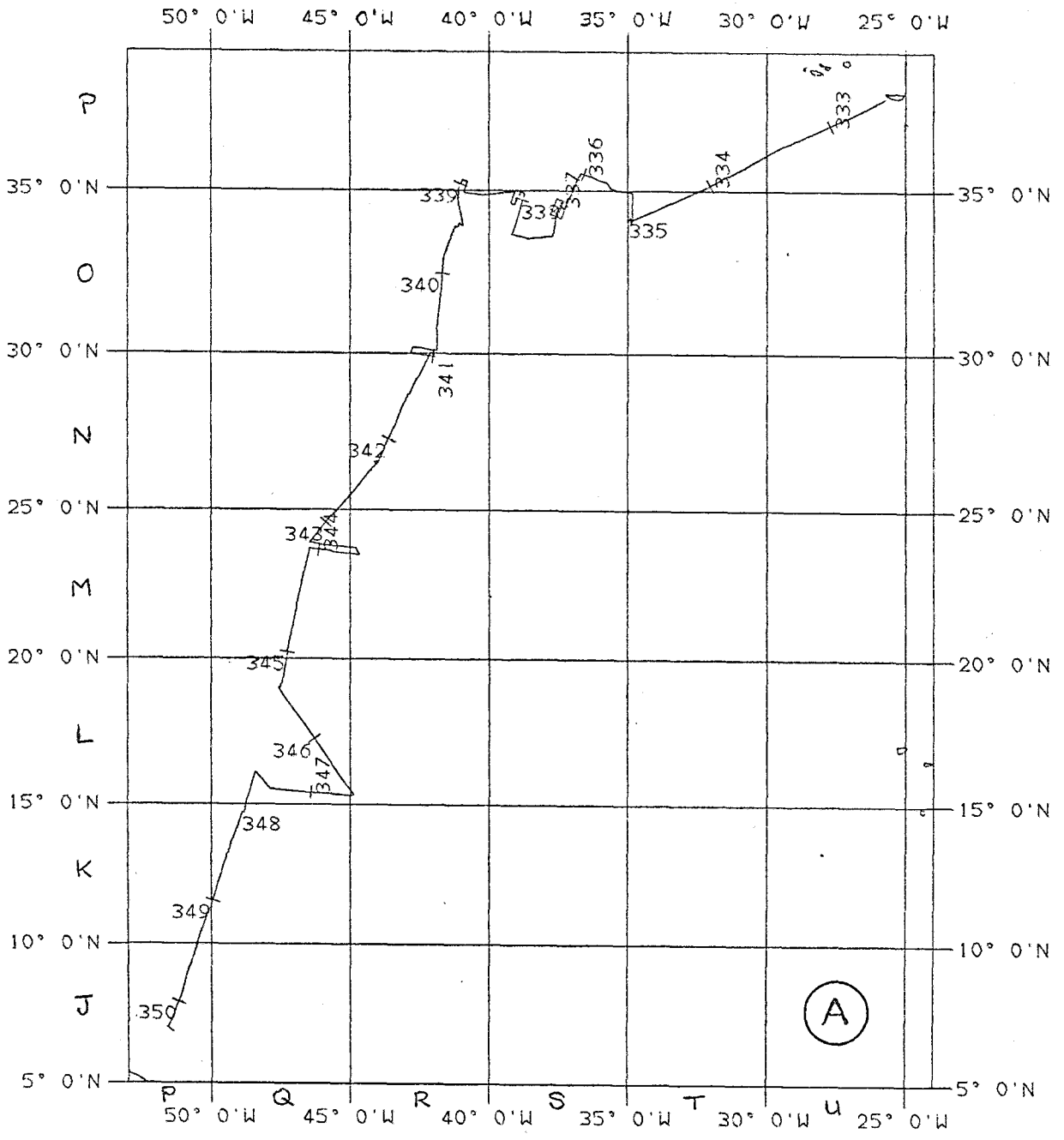
Start Port - Azores
End Port - Belem

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 | 1829 | 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 |
| ARP | 166 | 166 | 166 |
| ASO | 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 - 92725 LOC-BID Owner-MRS, Orig-MM, ASA9 DEN8
3 files with EOT mark at beginning and end,
parity error in file 2, rec 2437. Read as
binary using UTILITY when converting to
Honeywell ASCII.
MGG copy - 90312 Density 1600bpi NLABEL File 5
Archive copy - MGG 1691 1717

Total records - 11477
Bathymetry - 9651
Magnetics - 1627
Gravity - 921

P.S.O. - Searle

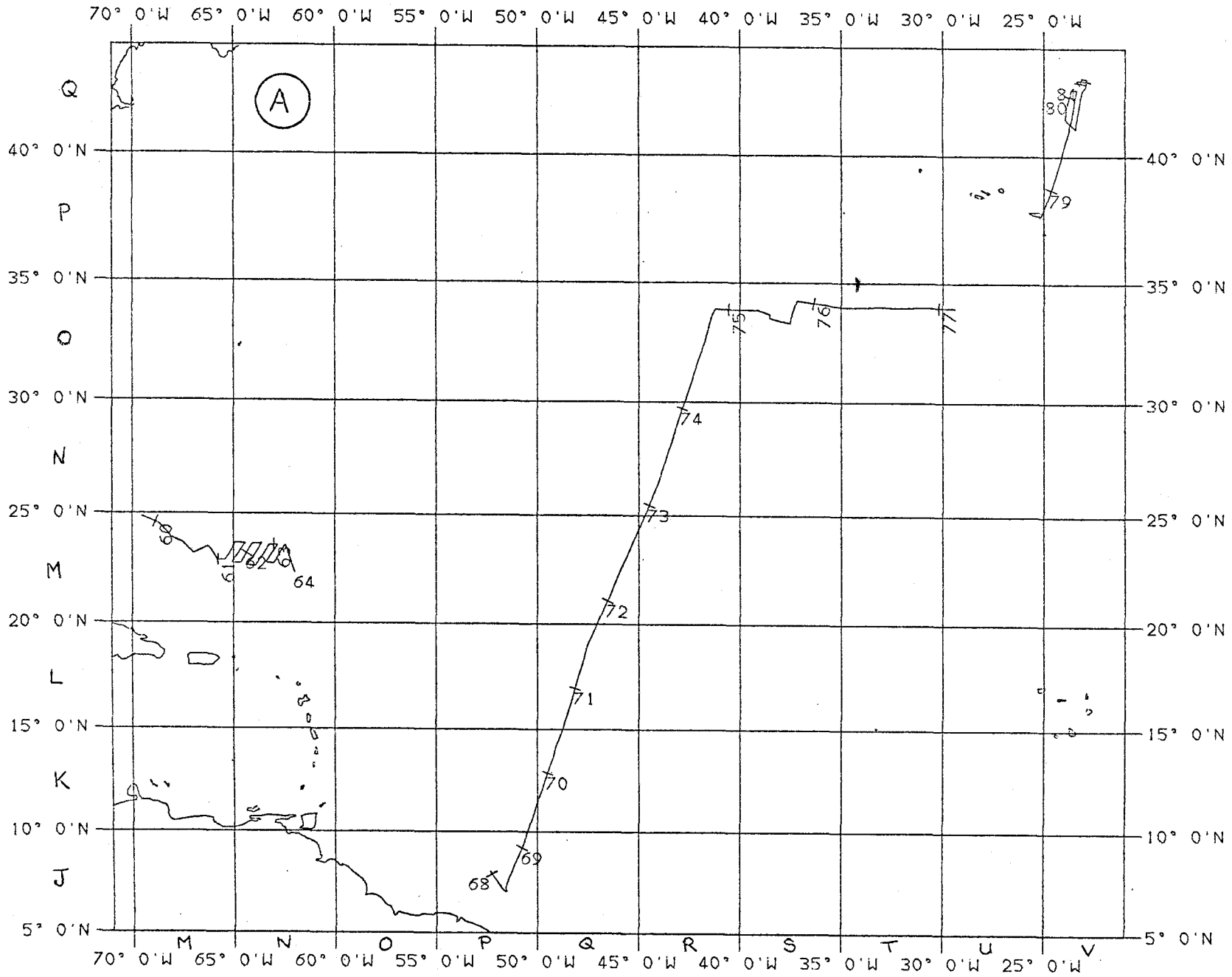
Start Port - Miami
End Port - Hull

Data Starts - 2014z 28-Feb-82
Data Ends - 0522z 22-Mar-82

Latitude minimum - 6.9N
Latitude maximum - 43.0N
Longitude minimum - 69.6W
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 | 685 | 0 | 0 |
| AQM | 597 | 0 | 0 |
| ARM | 104 | 0 | 0 |
| ARN | 609 | 0 | 0 |
| ARO | 618 | 0 | 0 |
| ASO | 717 | 401 | 0 |
| ATO | 491 | 0 | 0 |
| AUO | 74 | 0 | 0 |
| AVQ | 1274 | 1226 | 0 |
| Total | 9652 | 1627 | 921 |


A
70° 0'W
65° 0'W
60° 0'W
55° 0'W
50° 0'W
45° 0'W
40° 0'W
35° 0'W
30° 0'W
25° 0'W
40° 0'N
35° 0'N
30° 0'N
25° 0'N
20° 0'N
15° 0'N
10° 0'N
5° 0'N
Q
P
O
N
M
L
K
J
M
N
O
P
Q
R
S
T
U
V
64
68
69
70
71
72
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79
80

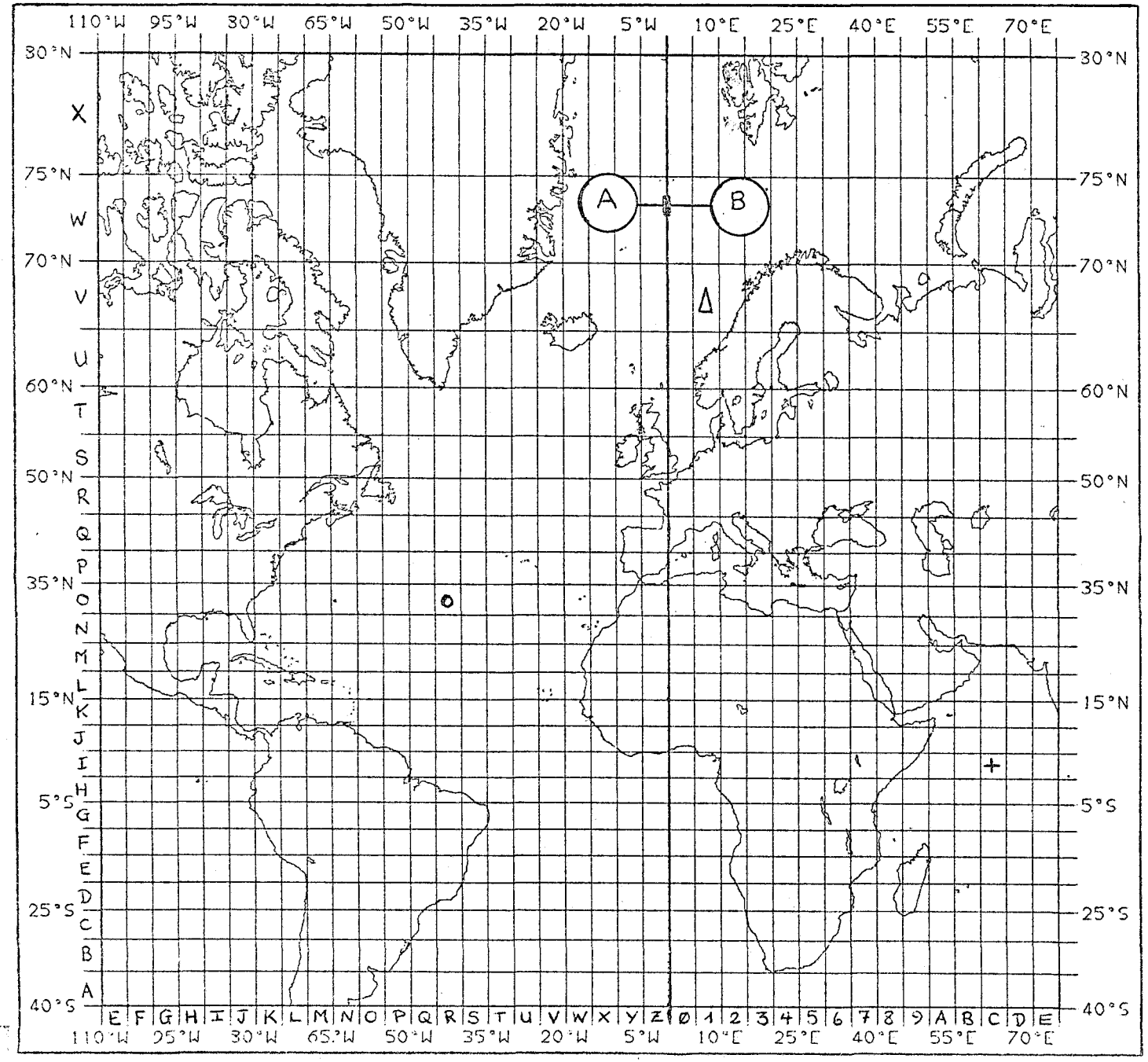
FARNELLA 8,9

## 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 alphanumerics 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.

The diagram given overleaf, including three examples, should make the method clear.




## Appendix A (continued)

Taking the squares marked by the symbols on the adjacent map:-

Symbol Δ – Code B1V

Symbol + – Code BCI

Symbol O – Code ARO.

Care should always be taken to distinguish between the letter O and the number zero, and also the letter I and the number one.

Appendix B - Published Cruise Reports

CR1 R.R.S. 'Discovery' Cruise 54, 29 June - 15 August 1973. GLORIA studies of the Mid-Atlantic Ridge (FAMOUS area) and the Azores-Gibraltar plate boundary. 26pp and figs.

CR8 R.R.S. 'Discovery', Cruise 60, 26 February to 22 March 1974. Seismic reflection profiling on the Rockall Plateau and in the South Western Approaches. 17pp.

CR16 R.R.S. '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 44N 13W, and testing of miscellaneous physical equipment. 25pp. 1975.

CR24 R.R.S. '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). 18pp. and figs. 1975.

CR33 R.R.S. 'Discovery' 74, Leg 2, 15 September to 26 September 1975. Seismic reflection profiling across the continental margin in the Southwest Approaches (North Biscay). 20pp. and figs. 1975.

CR34 R.R.S. 'Discovery' Cruise 73, 3 July to 26 August 1975. GLORIA and geophysical studies on the Mid-Atlantic Ridge and north of the Azores. 29pp. and figs. 1975.

CR45 R.R.S. 'Shackleton' Cruise 3/76. Leg 1. Bridgetown, Barbados to Ponta Delgada, Azores June 4 to June 14 1976: Great Circle XBT section. Leg 2. Ponta Delgada, Azores to Barry, U.K. June 18 to July 11, 1976: Geophysical studies at Kurchatov Fracture Zone Mid-Atlantic Ridge and at 45 24', 20 51'W. 11pp.

CR49 R.R.S. 'Shackleton' Cruise 6/76. 27 October to 18 November 1976. Geophysical studies of south west Biscay. 20pp.

CR60 R.R.S. '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. 1977. 29pp. and figs.

CR68 R.R.S. 'Discovery' Cruise 90, 20 January to 3 March 1978. Sonar imaging of the European-North African continental margin. 1978. 22pp.

CR69 R.R.S. 'Discovery' Cruise 91, 5-28 March 1978. Geophysical studies of the Azores Triple Junction and the Azores-Biscay Rise. 1978. 16pp. and figs.

CR71 R.R.S. '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. 1978. 18pp and figs.

CR79 BELDERSON, R.H. 1979 RRS 'Discovery' cruise 96, 21 November-4 December 1979. Geological investigation in the equatorial Atlantic. 7pp. & figs.

CR80 WHITMARSH, R.B. 1979 RRS 'Shackleton' cruise 6/79, 7-31 July 1979. Seismic studies of the continent-ocean transition in North Biscay. 21pp. & figs.

C88 SEARLE, R.C. 1980 RRS Discovery Cruise 103, 9-25 July 1979. Geology and geophysics in the Gulf of Aden and Red Sea. 19pp. & figs.

C90 KIDD, R.B. 1980 RRS Discovery Cruise 106, 5 December-22 December 1979. Trans-Atlantic passage with equipment trials and high-resolution seismic profiling. 16pp. & figs.

C94 ROBERTS, D.G. 1980 RRS Discovery Cruise 101, 10 April -6 May 1979. Geophysical investigations in the SW Indian Ocean and around the northern Mascarene Plateau. 20pp. & figs.

C98 STRIDE, A.H. 1980 RRS Discovery Cruise 109, 10 March-19 April 1980. Geological and geophysical studies of the Antilles region. 10pp. & figs.

C100 WHITMARSH, R.B. 1980 RRS Discovery Cruise 107, 28 December 1979(362)-9 February 1980(040). Lesser Antilles Deep Lithosphere Experiment (LADLE). 25pp & figs.

C102 SEARLE, R.C. 1980 RRS Discovery Cruise 110, 22 April-18 June 1980. Geophysics and geochemistry in the East Pacific Ocean. 30pp. & figs.

C103 KIDD, R.B. 1980 RRS Discovery Cruise 111, Leg 1, 21 June-3 July 1980. GLORIA survey of the Blake-Bahama Outer Ridges. 8pp. & figs.

C104 ROBERTS, D.G. 1980 RRS Discovery Cruise 111 Leg 2, 8 July-30 July 1980. Geophysical studies of the continental margin around the Grand Banks. 16pp & figs.

C105 KENYON, N.H. 1980 RRS Discovery Cruise 104, 27 July-19 August 1979. Geological studies in the Mediterranean. 7pp. & figs.

C117 FRANCIS T.J.G. et al 1981 RRS Discovery 118, 11 February-30 March 1981. Geophysics and sediment sampling in the Northeast Atlantic. 33pp. & figs.

C122 SEARLE, R.C. et al 1982 MV Farnella Cruise 3/81, 7 November-26 November 1981. GLORIA studies of lower continental rise and abyssal plain sedimentation in the Canary Basin. 14pp.

C123 SEARLE, R.C. et al 1982 MV Farnella Cruise 4/81, 28 November-19 December 1981. Tide-gauge deployments and GLORIA studies of Mid-Atlantic Ridge fracture zones between the Azores and northern South Ameerica. 15pp.

C131 WILSON, J.B. et al 1982 RRS Discovery Cruise 123, 5 August-10 September 1981. Geological investigations on the continental slope to the west of the British Isles and Norway. 13pp.

C137 WHITMARSH, R.B. et al 1982 RRS Discovery Cruise 131, 12 August(224)-23 September(226) 1982. Geology and Geophysics of the Charlie-Gibbs Fracture Zone, North Atlantic Ocean. 33pp.

C157 SEARLE, R.C. et al 1984 RRS Discovery Cruise 142, 20 November-18 December 1983. Geophysical investigations of the Romanche and St. Paul Fracture Zones, equatorial Atlantic Ocean. 30pp.

C161 SCHULTHEISS, P.J. et al 1984 RRS Discovery Cruise 144, 22 January-20 February 1984. Geology and geophysics of an area east of the Great Meteor Seamount. 37pp.

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-3 April 1982. Geological and geophysical studies between the Azores and the Canaries. 21pp.

C149 KENYON, N.H. & GARRISON, L. et al MV "Farnella" Cruise 6, 21-31 January 1982. Cruise 7, 2-23 February 1982. GLORIA in the Caribbean and the Gulf of Mexico. 10pp.

C151 BELDERSON, R.H. & DAMOTH, J.E. et al 1983 MV "Farnella" Cruise 5, 2-19 January 1982. Morphological studies of the Amazon Cone and Barbados Outer Ridge. 12pp.

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 Kings Trough; R.R.S. 'Discovery' Cruise 33, National Institute of Oceanography Data Report Geophysics 1 21pp and figs. (Unpublished manuscript).

JONES M.T. 1973 Bathymetric and Magnetic Traverses across the North Atlantic; N.C. Marcel Bayard, Cantat II Ocean Survey Cruise, National Institute of Oceanography Data Report Geophysics 2 24pp and figs. (Unpublished manuscript).

OLLIFF N.J. 1973 'GLORIA' in Peeke and Freen Deeps and on the Azores-Gibraltar Rise; R.R.S. 'Discovery' Cruise 43, National Institute of Oceanography Data Report Geophysics 3 20pp and figs. (Unpublished manuscript).

OLLIFF N.J. 1973 Bathymetric and Magnetic Traverses over the Rockall Plateau; R.R.S. 'Discovery' Cruise 47, National Institute of Oceanography Data Report Geophysics 4 20pp 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 22pp and figs. (Unpublished manuscript).

MILES P.R. 1976 Bathymetric and Magnetic Traverses over the South West Margin of the Rockall Plateau; R.R.S. 'Discovery' Cruise 60, Institute of Oceanographic Sciences Data Report No. 9 23pp and figs. (Unpublished manuscript).

MILES P.R. 1977 'GLORIA' and Geophysical Studies of the Mid-Atlantic Ridge and North of the Azores; R.R.S. 'Discovery' Cruise 73, Institute of Oceanographic Sciences Data Report No. 12 23pp and figs. (Unpublished manuscript).

MILES P.R. and SAUNDERS M.R. 1978 Geophysical Studies of the Gulf of Aden, Gulf of Oman and Owen basin (Arabian Sea); R.R.S 'Shackleton' Cruise 3,4/75, Institute of Oceanographic Sciences Data Report No. 13 16pp and figs. (Unpublished manuscript).

MILES P.R. and SAUNDERS M.R. 1980 Geophysical Studies of South West Biscay and the Continental Margins of the Southwest Approaches (North Biscay); R.R.S. 'Discovery' Cruise 74 leg 2 and R.R.S. 'Shackleton' Cruise 6/76, Institute of Oceanographic Sciences Data Report No. 16 10pp and figs. (Unpublished manuscript).

MILES P.R. and SAUNDERS M.R. 1980 'GLORIA' and Geophysical Studies of the Charlie Gibbs fracture zone, the Reykjanes Ridge and Kings Trough; R.R.S. 'Discovery' Cruise 84, Institute of Oceanographic Sciences Data Report No. 21 10pp 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; R.R.S. 'Discovery' Cruises 90 and 91, Institute of Oceanographic Sciences Data Report No. 24 10pp 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

## 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, CO30303
   USA.

2. For unreleased data,

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

3. For all other enquiries,

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

4. Specific data enquiries,

   Dept. of Marine Geology and Geophysics,
   Institute of Oceanographic Sciences,
   Brook Road, Wormley,
   GODALMING, GU8 5UB, United Kingdom.