GEOSECS EXPEDITION

LEG K

R/V MELVILLE

INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH AND MAGNETIC DATA

Papeete, Tahiti (14 May 1974)

to

San Diego, Calif. (10 June 1974)

Chief Scientist - W. Broecker (Lamont)

Resident Marine Tech - Sharon Witherow

Post-Cruise Processing by - S. Smith, U. Albright, O. McConnell, R. Lingley

Prepared by

Underway Data Processing Group

S.I.O. Geological Data Center

Scripps Institution of Oceanography

La Jolla, California

July 31, 1974

Preliminary Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data*

Contents:

Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).

Track Charts - annotated with dates (day/month) and hour ticks. The scale (.3"/deg. long) is the same as the index charts of previous SIO cruises published as Report IMR TR-25.

Profiles - Depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a solid black line along the bottom of the profile.

For information on the availability and reproduction costs of data in the following forms, contact T. E. Chase, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92037 (714-453-2000, Ext. 1534):

1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.

2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4" degree with standard U.S. Navy Oceanographic Office BC series boundaries (see index chart).

3. Plots of magnetic anomaly profiles along track-map scale = 1.2"/ degree; anomaly scale between 15°N and 15°S latitude = 500 gamma/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamma/inch) from values retrieved at approximately 1 mile spacing and regional field removed using the 1965 IGRF.

4. Card Decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center).

5. S.I.O. Sample Index - list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the cruise leg.

6. Microfilm or Xerox copies of:

   a. Echosounder records - 12 and 3.5 kHz frequency

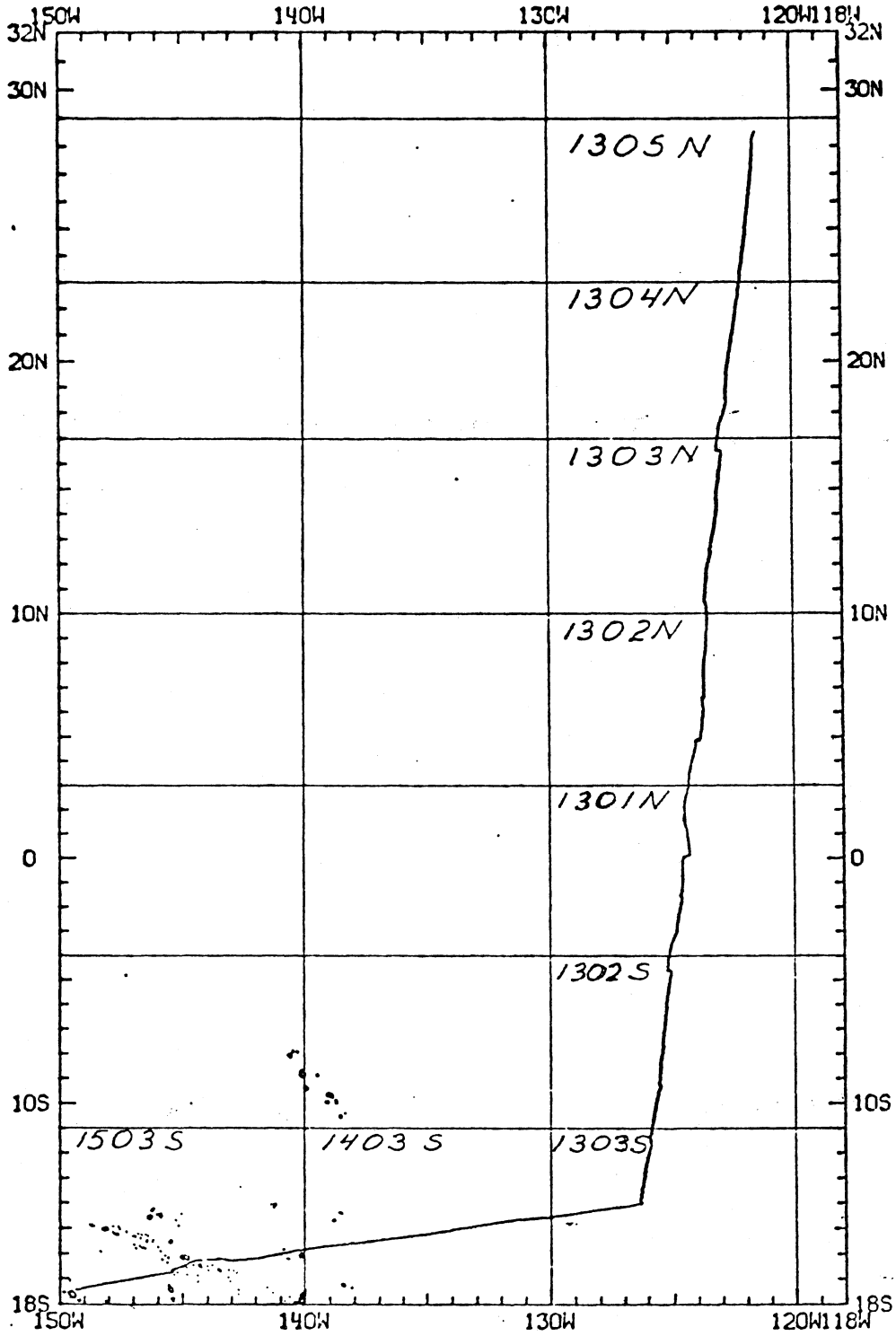
   b. Subbottom profiler records (airgun)

   c. Magnetometer records

   d. Underway Data Log

---

* No Subbottom Profiler Data Taken

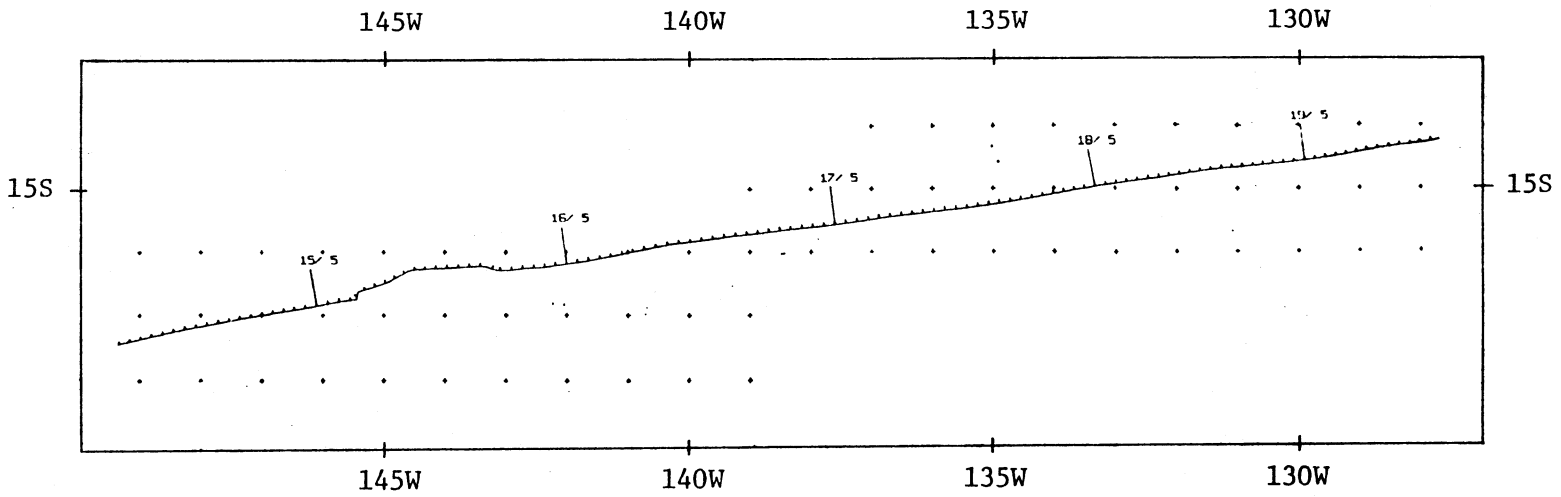


GEOSECS EXPEDITION
LEG K
R/V MELVILLE

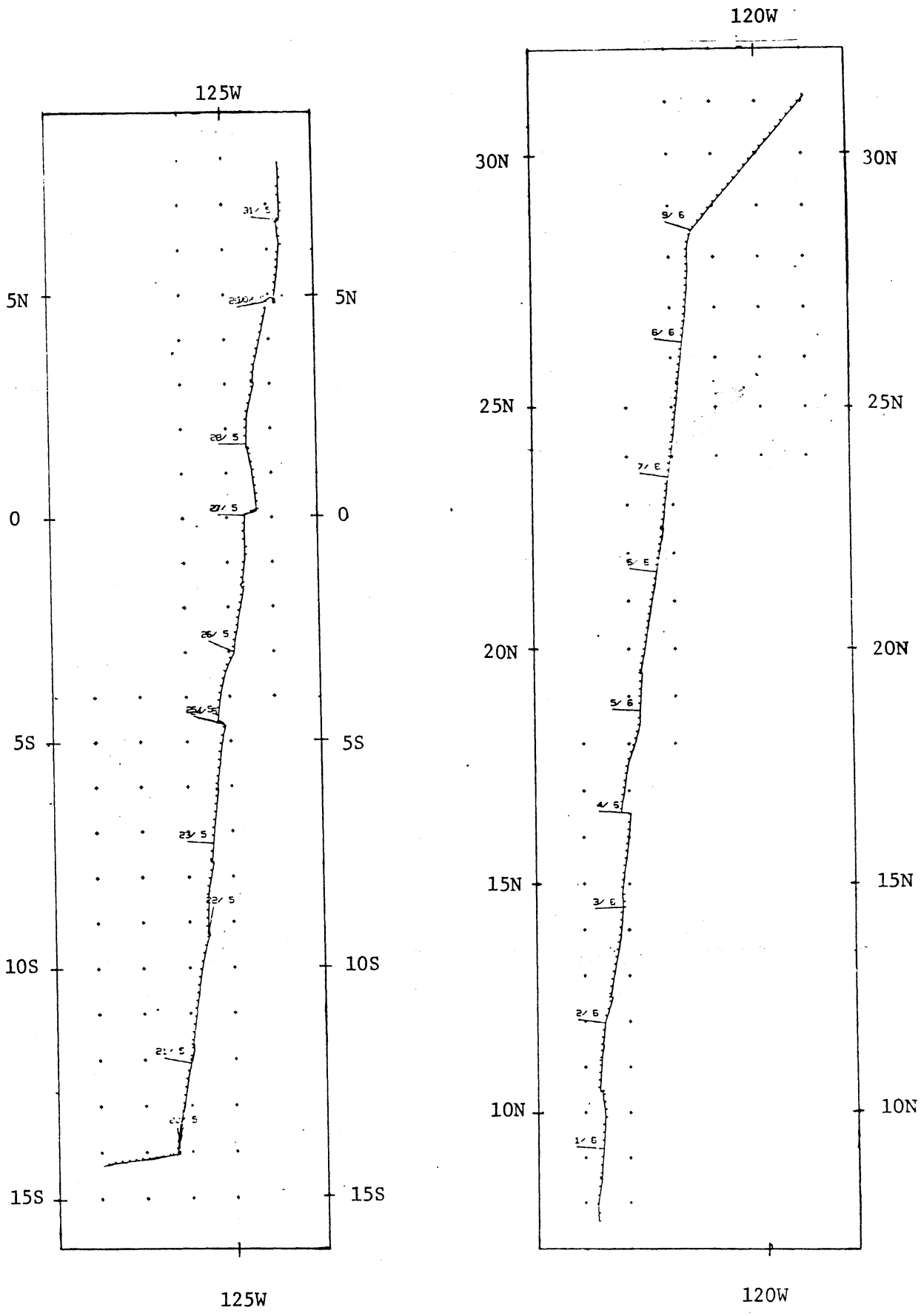
Chief Scientist - W. Broecker (LDGO)
Papeete, Tahiti - San Diego, Calif. (14 May - 10 June 1974)

TOTAL MILEAGE

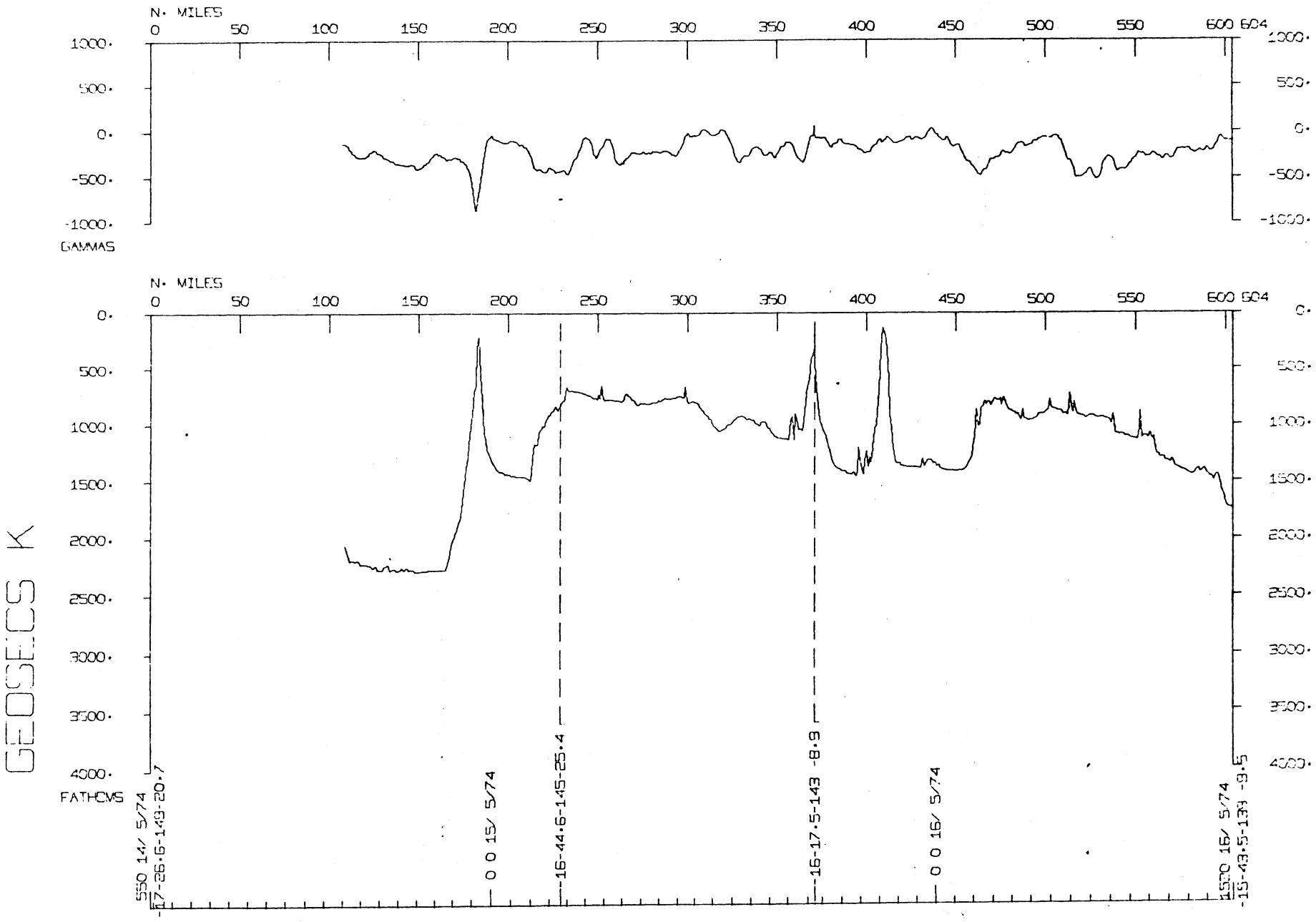
1) Cruise - 4247 miles
2) Bathymetry - 3709 miles
3) Magnetics - 3767 miles
4) Seismic Reflection - none taken

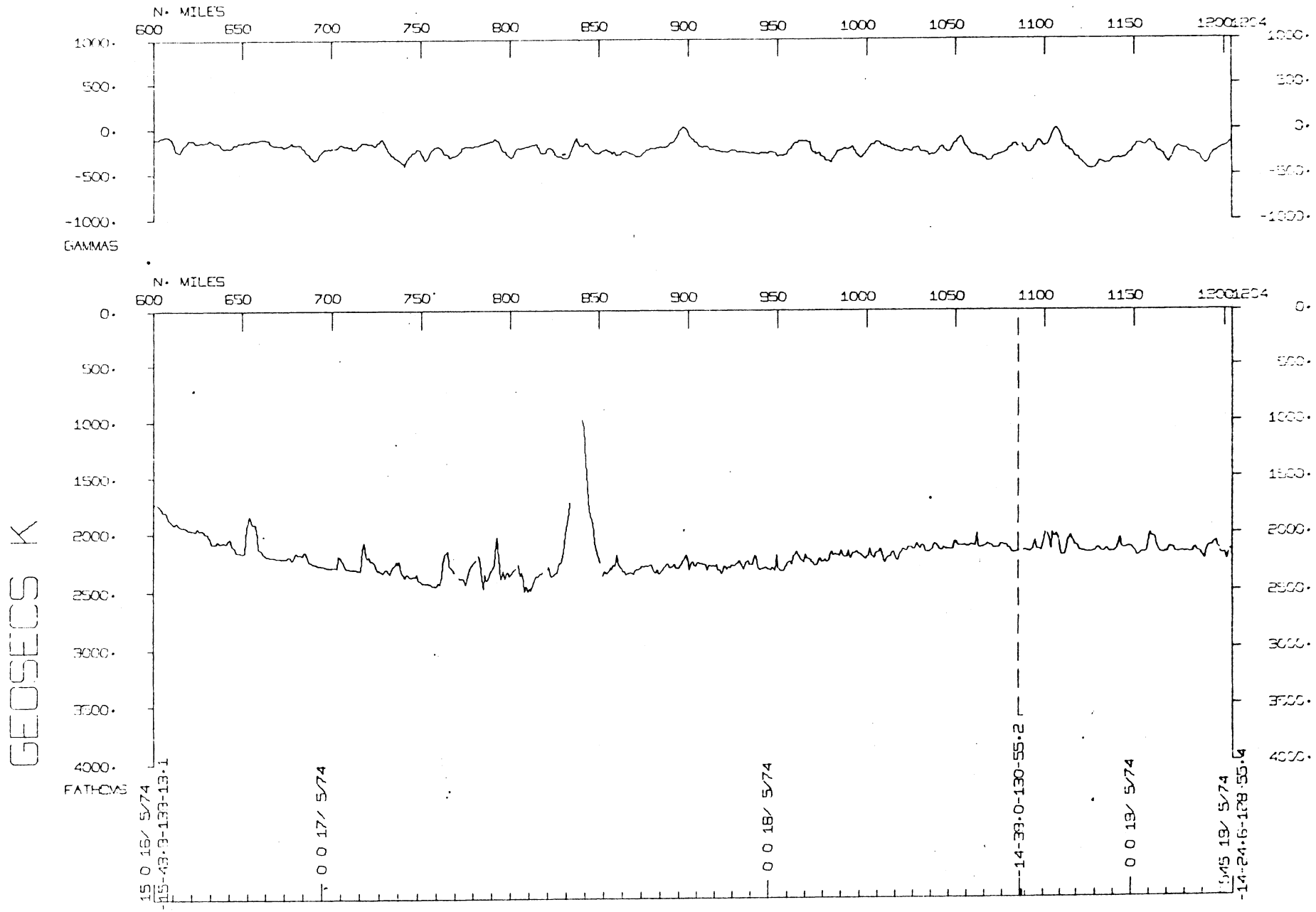


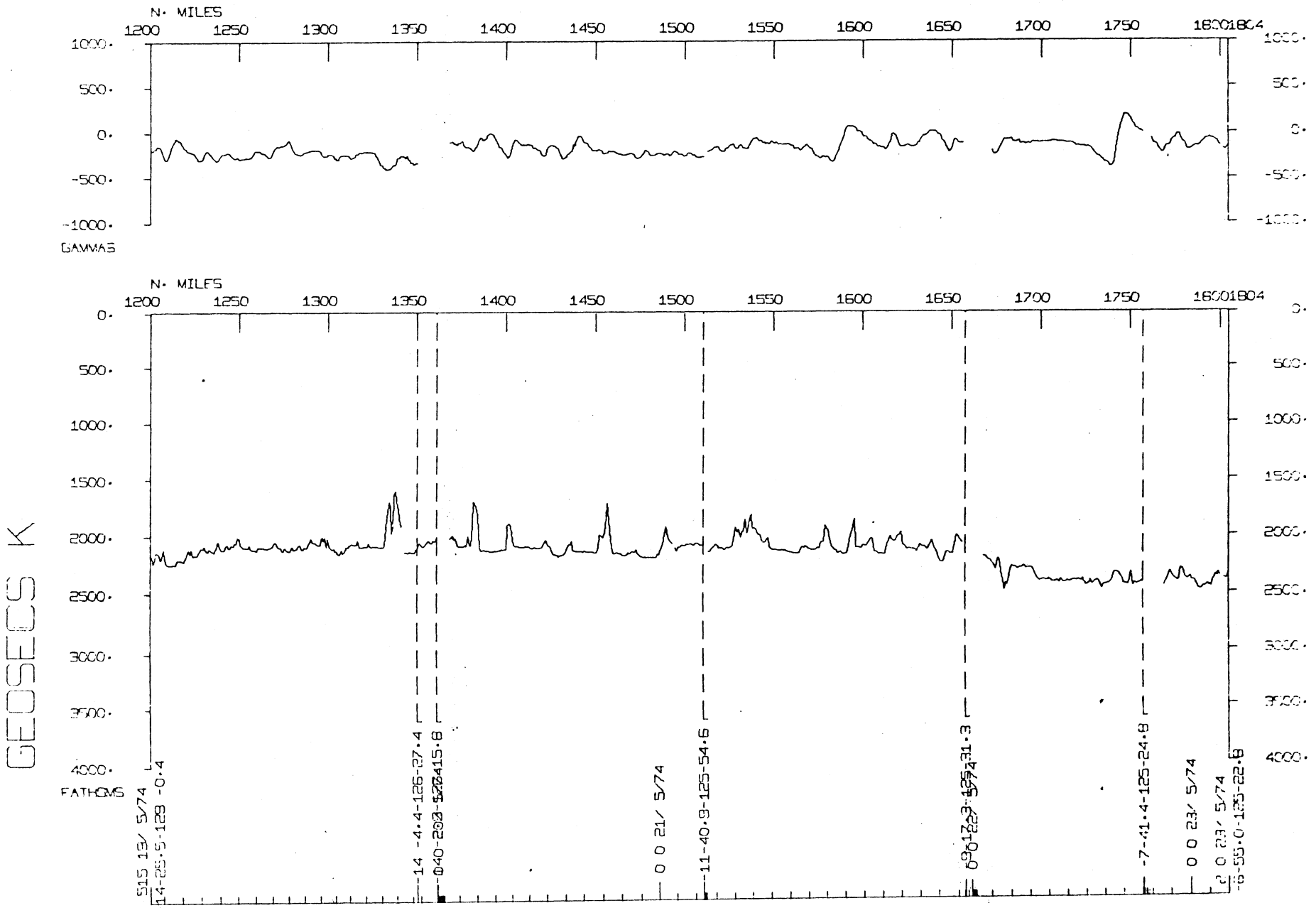
GEOSECS LEG K TRACK PLOT (1 Of 2)



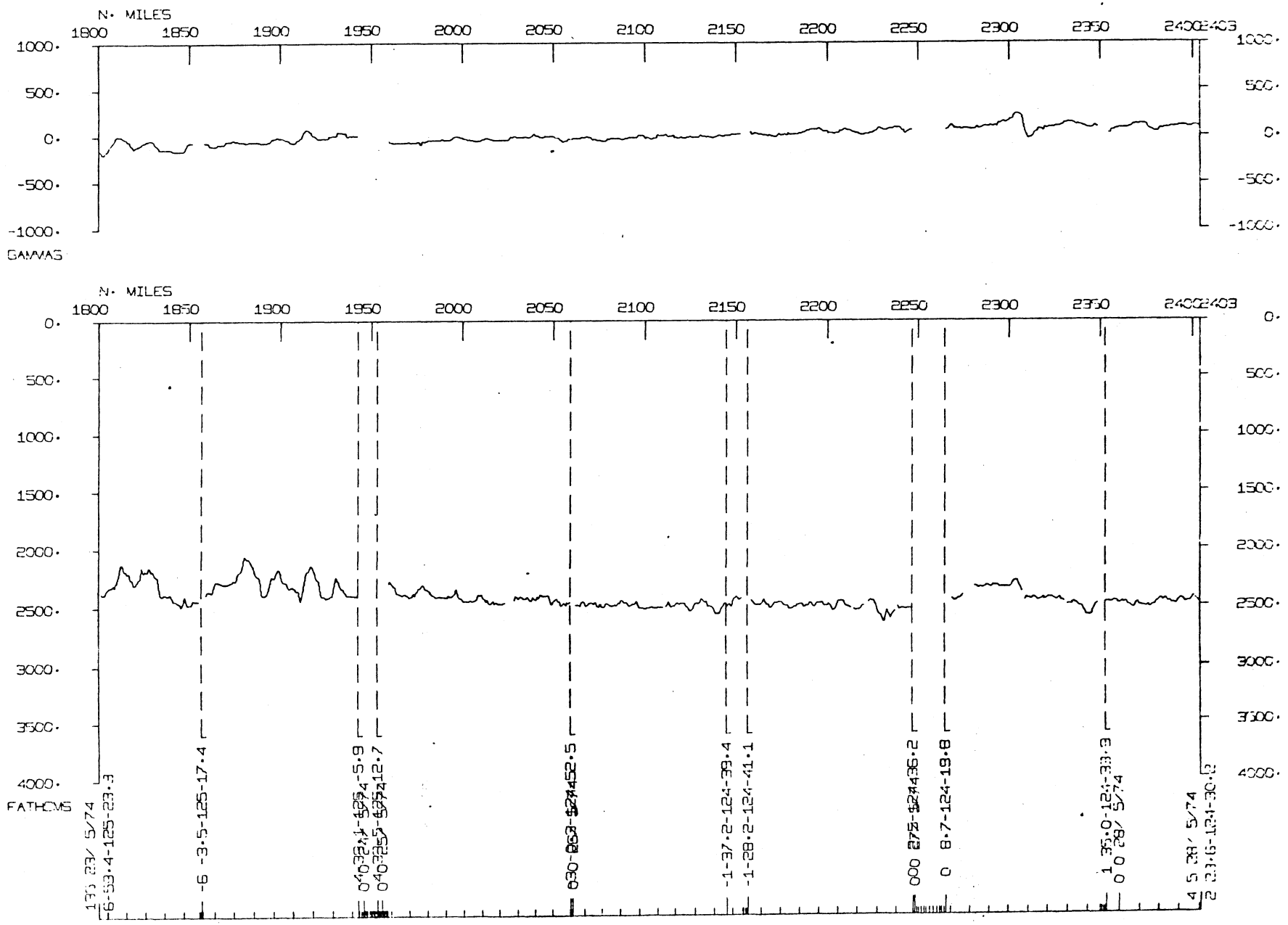
GEOSECS LEG K TRACK PLOT (2 of 2)


N. MILES
0 50 100 150 200 250 300 350 400 450 500 550 600 604
1000. 500. 0. -500. -1000.
GAMMAS
N. MILES
0 50 100 150 200 250 300 350 400 450 500 550 600 604
0. 500. 1000. 1500. 2000. 2500. 3000. 3500. 4000.
FATHOMS
GEOSECS K
550 14/ 5/74
17-26.6-149-20.7
0 0 15/ 5/74
16-44.6-145-25.4
16-17.5-143 -8.9
0 0 16/ 5/74
1530 16/ 5/74
-15-43.5-139 -9.5

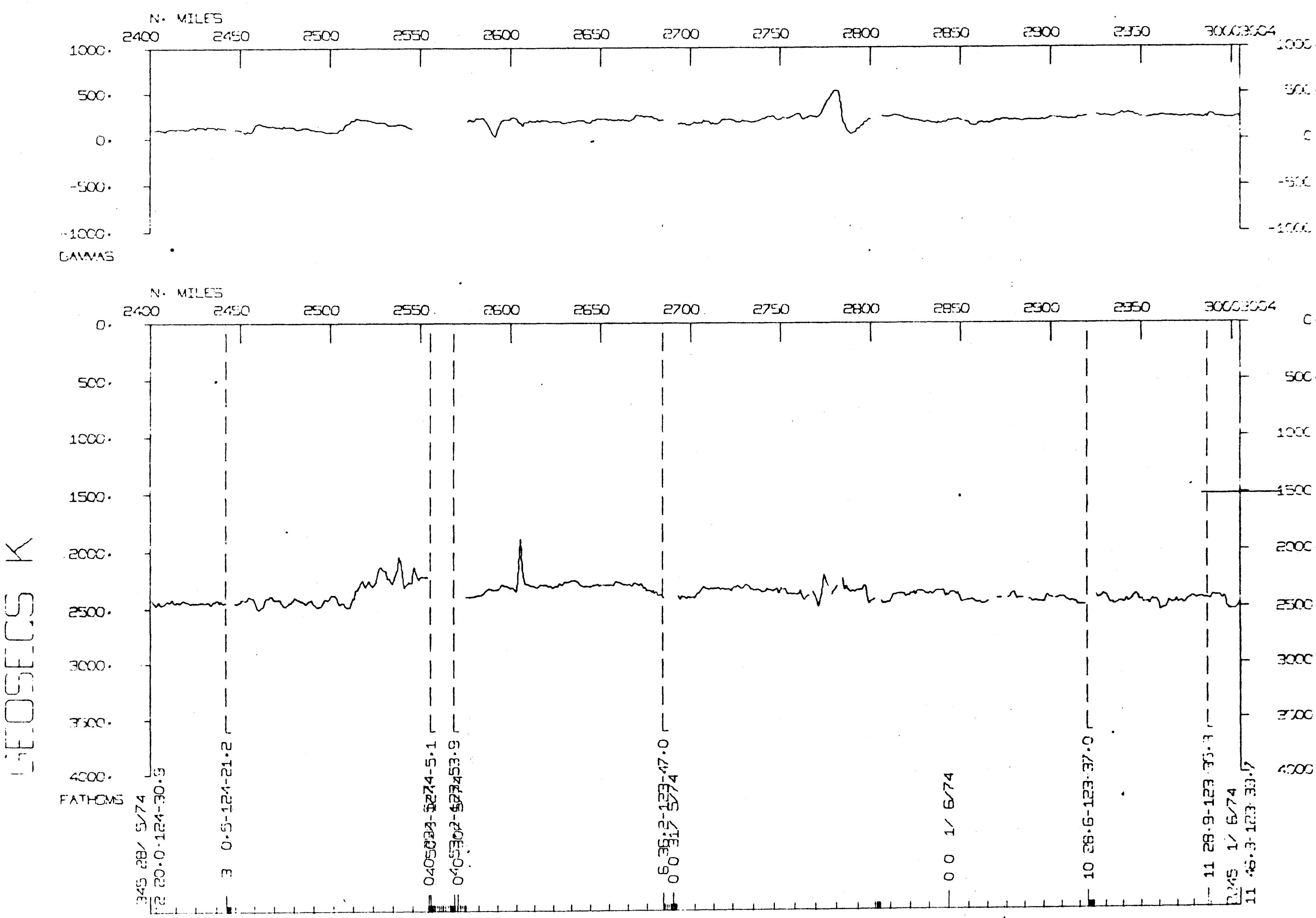

N. MILES
600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1204
1000. 500. 0. -500. -1000.
GAMMAS
N. MILES
600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1204
0. 500. 1000. 1500. 2000. 2500. 3000. 3500. 4000.
FATHOMS
15 0 16/ 5/74
-15-43.9-133-13.1
0 0 17/ 5/74
0 0 18/ 5/74
-14-39.0-130-55.2
0 0 19/ 5/74
19/ 5/74
-14-24.6-178-55.4
GEOSECS K

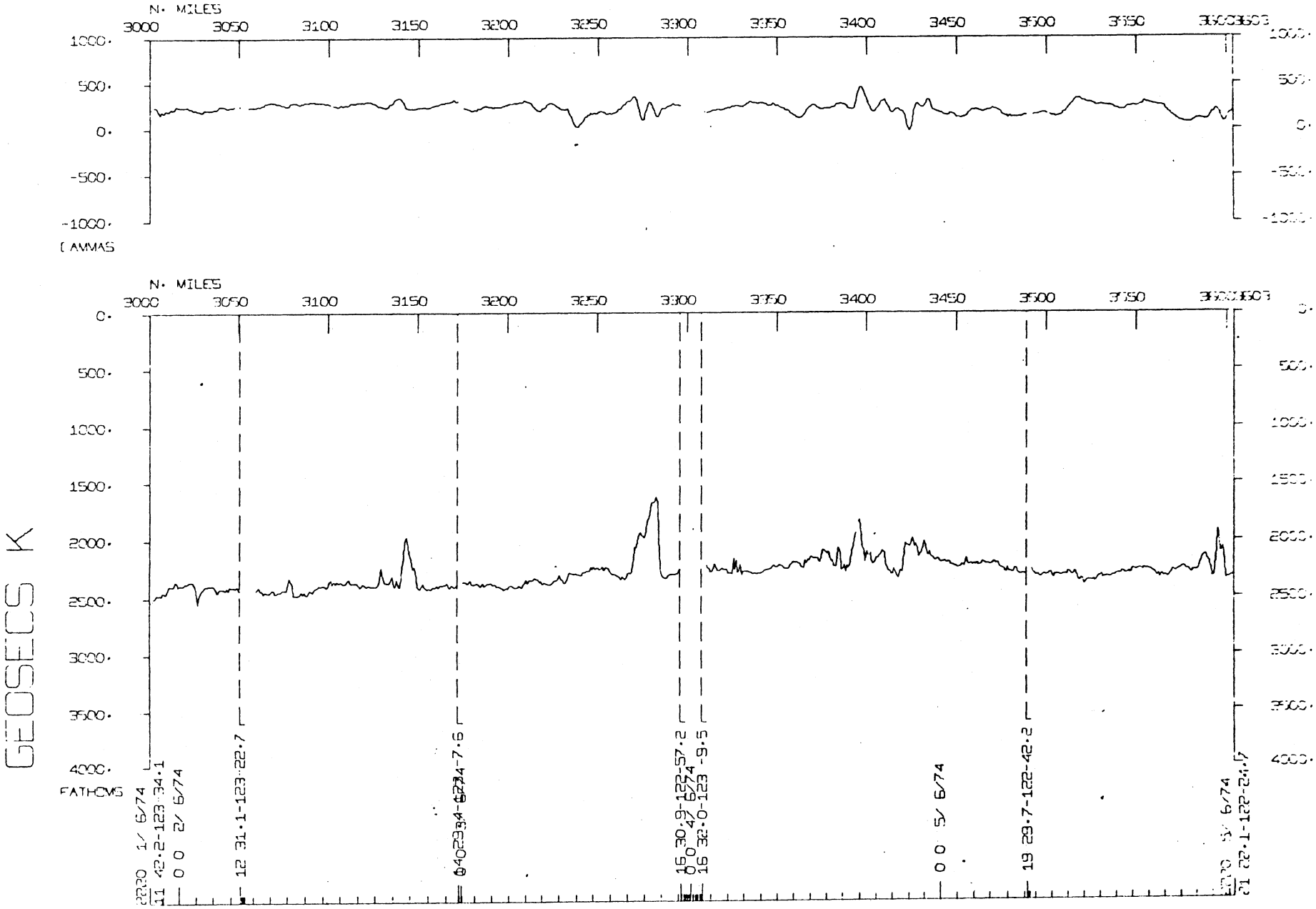

N. MILES
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1804
1000.
500.
0.
-500.
-1000.
GAMMAS
N. MILES
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1804
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
515 13/ 5/74
-14-25.5-128 -0.4
14 -4.4-126-27.4
040-203-128 15.8
0 0 21/ 5/74
11-40.9-125-54.6
6 0 23/ 5/74
-7-41.4-125-24.8
0 0 23/ 5/74
-55.0-125-22.8

GEOSECS K

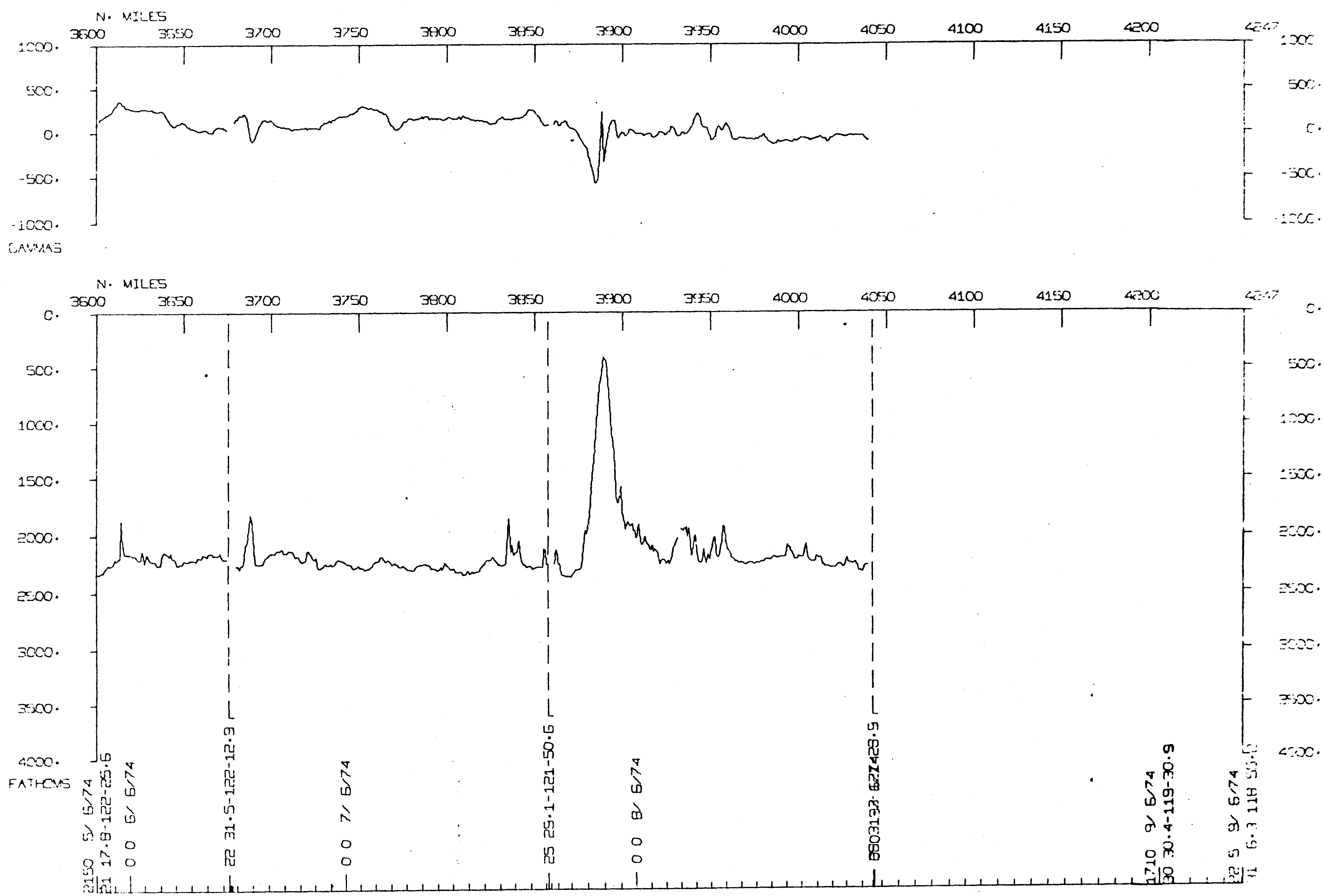

N. MILES
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
2403
1000.
500.
0.
-500.
-1000.
GAMMAS
N. MILES
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
2403
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
-6 -3.5-125-17.4
-1-37.2-124-39.4
-1-28.2-124-41.1
0 8.7-124-19.8

GEOSPECS K


GEOSECS K
N. MILES
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900
2950
1000
500
0
-500
-1000
GAMMAS
4000
3500
3000
2500
2000
1500
FATHOMS
345 28/ 5/74
2 20·0-124-30·9
3 0·5-124-21·2
0 0 1/ 6/74
10 28·6-123-37·0
11 28·9-123-35·1
2245 1/ 6/74
11 46·3-123-33·7


N. MILES
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
1000.
500.
0.
-500.
-1000.
GAMMAS
N. MILES
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
GEOSECS K

GEOSECS K


N. MILES
3600
3650
3700
3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4247
1000.
500.
0.
-500.
-1000.
GAMMAS
N. MILES
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
2150 5/ 6/74
21 17.8-122-25.6
0 0 6/ 6/74
22 31.5-122-12.9
0 0 7/ 6/74
25 29.1-121-50.6
0 0 8/ 6/74
8803133 6Z7428.5
1710 9/ 6/74
30 30.4-119-30.9
22 5 9/ 6/74
41 6.3 118 55.5

GEOSECS EXPEDITION LEG K SAMPLE INDEX

LISTED 28 AUGUST 1974

0500 140574	LG B PAPEETE, TAHITI	17N 149W	GECS KMV
1400 100674	LG E SAN DIEGO, CALIF.	32N 119W	GECS KMV

PERSONNEL

PECS	BROECKER,W.	LDG	GECS KMV
PERT	WITHERUW,S.	GRD	GECS KMV
PECT	WYBORNEY,G.	GOG	GECS KMV
PEMT	CUNNINGHAM,L.	GOG	GECS KMV
PEMT	WALDORF,B.	GOG	GECS KMV
PEET	BRADER,D.	GOG	GECS KMV
PE	BREEZE,C.	GOG	GECS KMV
PE	BRENNEN,B.	DCP	GECS KMV
PE	GALLAHGER,C.	GOG	GECS KMV
PE	GILBERT,A.	GOG	GECS KMV
PE	HESTER,A.	GOG	GECS KMV
PE	HORUPITZ,R.	GOG	GECS KMV
PE	JAIN,J.	GOG	GECS KMV
PE	JAMES,B.	GOG	GECS KMV
PE	MANTYLA,A.	GOG	GECS KMV
PE	MATTIEU,G.	LDG	GECS KMV
PE	MYERS,R.	DSD	GECS KMV
PE	PRICE,W.	GOG	GECS KMV
PE	RAGAN,P.	GOG	GECS KMV
PE	SAMBURN,K.	GOG	GECS KMV
PE	SLATER,E.	GOG	GECS KMV
PE	WARD,R.	GOG	GECS KMV
PE	WELLS,J.	NPX	GECS KMV
PE	YATES,B.	GOG	GECS KMV

GALLAGHER=NSF, GOG CAMERAMAN, WASHINGTON, D.C.
WARD=NSF,GOG WRITER, FREELANCE

UNDERWAY DATA - CURATOR T.E. CHASE 2ND FLOOR AQUARIUM (EXT.1534)

*** NAVIGATION PLOTS ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
0500	14 574			NVBP B	BRIDGE PLOT 01	GDC	17 266S	149 207W	S	GECS KMV
2240	16 574			NVBP E	BRIDGE PLOT 01	GDC	15 351S	137 506W	S	GECS KMV
2240	16 574			NVBP B	BRIDGE PLOT 02	GDC	15 351S	137 506W	S	GECS KMV
1417	21 574			NVBP E	BRIDGE PLOT 02	GDC	10 301S	125 469W	S	GECS KMV
1417	21 574			NVBP B	BRIDGE PLOT 03	GDC	10 301S	125 469W	S	GECS KMV
1409	25 574			NVBP E	BRIDGE PLOT 03	GDC	3 347S	125 68W	S	GECS KMV
1409	25 574			NVBP B	BRIDGE PLOT 04	GDC	3 347S	125 68W	S	GECS KMV
1024	28 574			NVBP E	BRIDGE PLOT 04	GDC	3 19N	124 222W	S	GECS KMV
1134	28 574			NVBP B	BRIDGE PLOT 05	GDC	3 25N	124 223W	S	GECS KMV
1254	1 674			NVBP E	BRIDGE PLOT 05	GDC	10 280N	123 392W	S	GECS KMV
1254	1 674			NVBP B	BRIDGE PLOT 06	GDC	10 280N	123 392W	S	GECS KMV
1554	4 674			NVBP E	BRIDGE PLOT 06	GDC	17 304N	123 10W	S	GECS KMV
1554	4 674			NVBP B	BRIDGE PLOT 07	GDC	17 304N	123 10W	S	GECS KMV
2156	6 674			NVBP E	BRIDGE PLOT 07	GDC	23 168N	122 85W	S	GECS KMV
2156	6 674			NVBP B	BRIDGE PLOT 08	GDC	23 168N	122 85W	S	GECS KMV
922	9 674			NVBP E	BRIDGE PLOT 08	GDC	29 338N	120 264W	S	GECS KMV
922	9 674			NVBP B	BRIDGE PLOT 09	GDC	29 338N	120 264W	S	GECS KMV
1400	10 674			NVBP E	BRIDGE PLOT 09	GDC	31 67N	118 548W	S	GECS KMV

***FATHOGRAMS ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
1620	14 574			DPRT B	GDR 12KHZ R-01	GDC	17 49S	147 275W	S	GECS KMV
500	15 574			DPRT E	GDR 12KHZ R-01	GDC	16 361S	145 180W	S	GECS KMV
615	15 574			DPRT B	GDR 12KHZ R-02	GDC	16 354S	145 154W	S	GECS KMV
832	17 574			DPRT E	GDR 12KHZ R-02	GDC	15 221S	136 32W	S	GECS KMV
845	17 574			DPRT B	GDR 12KHZ R-03	GDC	15 218S	136 9W	S	GECS KMV
1400	18 574			DPRT E	GDR 12KHZ R-03	GDC	14 390S	130 552W	S	GECS KMV
1750	18 574			DPRT B	GDR 12KHZ R-04	GDC	14 391S	130 558W	S	GECS KMV
2009	19 574			DPRT E	GDR 12KHZ R-04	GDC	14 59S	126 373W	S	GECS KMV
2030	19 574			DPRT B	GDR 12KHZ R-05	GDC	14 54S	126 341W	S	GECS KMV
2300	19 574			DPRT E	GDR 12KHZ R-05	GDC	14 29S	126 158W	S	GECS KMV

E GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1210	20 574			DPRT B	GDR 12KHZ R-06	GDC 14	36S	126 193W S	GECS KMV
224	21 574			DPRT E	GDR 12KHZ R-06	GDC 11	409S	125 546W S	GECS KMV
720	21 574			DPRT B	GDR 12KHZ R-07	GDC 11	404S	125 564W S	GECS KMV
2120	21 574			DPRT E	GDR 12KHZ R-07	GDC 9	184S	125 324W S	GECS KMV
615	22 574			DPRT B	GDR 12KHZ R-08	GDC 9	139S	125 350W S	GECS KMV
1700	22 574			DPRT E	GDR 12KHZ R-08	GDC 7	416S	125 246W S	GECS KMV
2150	22 574			DPRT B	GDR 12KHZ R-09	GDC 7	387S	125 271W S	GECS KMV
645	23 574			DPRT E	GDR 12KHZ R-09	GDC 6	54S	125 172W S	GECS KMV
1123	23 574			DPRT B	GDR 12KHZ R-10	GDC 6	32S	125 180W S	GECS KMV
1908	23 574			DPRT E	GDR 12KHZ R-10	GDC 4	405S	125 62W S	GECS KMV
730	25 574			DPRT B	GDR 12KHZ R-11	GDC 4	363S	125 166W S	GECS KMV
1800	25 574			DPRT E	GDR 12KHZ R-11	GDC 3	6S	124 527W S	GECS KMV
30	26 574			DPRT B	GDR 12KHZ R-12	GDC 2	583S	124 532W S	GECS KMV
800	26 574			DPRT E	GDR 12KHZ R-12	GDC 1	439S	124 406W S	GECS KMV
810	26 574			DPRT B	GDR 12KHZ R-13	GDC 1	422S	124 402W S	GECS KMV
930	26 574			DPRT E	GDR 12KHZ R-13	GDC 1	301S	124 437W S	GECS KMV
1420	26 574			DPRT B	GDR 12KHZ R-14	GDC 1	277S	124 411W S	GECS KMV
2255	26 574			DPRT E	GDR 12KHZ R-14	GDC 0	25N	124 362W S	GECS KMV
1142	27 574			DPRT B	GDR 12KHZ R-15	GDC 0	65N	124 198W S	GECS KMV
1930	27 574			DPRT E	GDR 12KHZ R-15	GDC 1	311N	124 316W S	GECS KMV
2335	27 574			DPRT B	GDR 12KHZ R-16	GDC 1	346N	124 327W S	GECS KMV
728	28 574			DPRT E	GDR 12KHZ R-16	GDC 3	5N	124 212W S	GECS KMV
1246	28 574			DPRT B	GDR 12KHZ R-17	GDC 3	27N	124 233W S	GECS KMV
2300	28 574			DPRT E	GDR 12KHZ R-17	GDC 4	494N	124 48W S	GECS KMV
620	29 574			DPRT B	GDR 12KHZ R-18	GDC 4	517N	124 35W S	GECS KMV
1651	30 574			DPRT E	GDR 12KHZ R-18	GDC 6	362N	123 470W S	GECS KMV
453	31 574			DPRT B	GDR 12KHZ R-19	GDC 6	412N	123 425W S	GECS KMV
1450	31 574			DPRT E	GDR 12KHZ R-19	GDC 8	310N	123 379W S	GECS KMV
2034	31 574			DPRT B	GDR 12KHZ R-20	GDC 8	346N	123 380W S	GECS KMV
730	1 674			DPRT E	GDR 12KHZ R-20	GDC 10	286N	123 371W S	GECS KMV
1409	1 674			DPRT B	GDR 12KHZ R-21	GDC 10	273N	123 399W S	GECS KMV
212	2 674			DPRT E	GDR 12KHZ R-21	GDC 12	181N	123 265W S	GECS KMV
218	2 674			DPRT B	GDR 12KHZ R-22	GDC 12	191N	123 262W S	GECS KMV
335	2 674			DPRT E	GDR 12KHZ R-22	GDC 12	311N	123 227W S	GECS KMV
825	2 674			DPRT B	GDR 12KHZ R-23	GDC 12	322N	123 250W S	GECS KMV
2045	2 674			DPRT E	GDR 12KHZ R-23	GDC 14	294N	123 76W S	GECS KMV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
120	3 674			DPRT B	GDR 12KHZ R-24	GDC 14	305N	123 79W S	GECS KMV
1409	3 674			DPRT E	GDR 12KHZ R-24	GDC 16	309N	122 572W S	GECS KMV
930	4 674			DPRT B	GDR 12KHZ R-25	GDC 16	320N	123 95W S	GECS KMV
506	5 674			DPRT E	GDR 12KHZ R-25	GDC 19	297N	122 422W S	GECS KMV
935	5 674			DPRT B	GDR 12KHZ R-26	GDC 19	304N	122 437W S	GECS KMV
615	6 674			DPRT E	GDR 12KHZ R-26	GDC 22	313N	122 130W S	GECS KMV
1633	6 674			DPRT B	GDR 12KHZ R-27	GDC 22	302N	122 144W S	GECS KMV
1310	7 674			DPRT E	GDR 12KHZ R-27	GDC 25	291N	121 506W S	GECS KMV
1810	7 674			DPRT B	GDR 12KHZ R-28	GDC 25	307N	121 505W S	GECS KMV
1305	8 674			DPRT E	GDR 12KHZ R-28	GDC 28	98N	121 354W S	GECS KMV
1308	8 674			DPRT B	GDR 12KHZ R-29	GDC 28	102N	121 353W S	GECS KMV
1532	8 674			DPRT E	GDR 12KHZ R-29	GDC 28	302N	121 294W S	GECS KMV

GEOCHEMICAL STATION-LARGE VOLUME

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2300	19 574			GCLV B	GEOSEC STA 326	GOG 14	29S	126 158W S	GECS KMV
1210	20 574			GCLV E	GEOSEC STA 326	GOG 14	36S	126 193W S	GECS KMV
1905	23 574			GCLV B	GEOSEC STA 331	GOG 4	410S	125 63W S	GECS KMV
730	25 574			GCLV E	GEOSEC STA 331	GOG 4	363S	125 166W S	GECS KMV
1409	3 674			GCLV B	GEOSEC STA 343	GOG 16	309N	122 572W S	GECS KMV
930	4 674			GCLV E	GEOSEC STA 343	GOG 16	320N	123 95W S	GECS KMV

GEOCHEMICAL STATION-SMALL VOLUME

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2120	21 574			GCSV B	GEOSEC STA 328	GOG 9	184S	125 324W S	GECS KMV
815	22 574			GCSV E	GEOSEC STA 328	GOG 9	139S	125 350W S	GECS KMV
2255	26 574			GCSV B	GEOSEC STA 334	GOG 0	25N	124 362W S	GECS KMV
1142	27 574			GCSV E	GEOSEC STA 334	GOG 0	85N	124 198W S	GECS KMV
2300	28 574			GCSV B	GEOSEC STA 337	GOG 4	494N	124 48W S	GECS KMV
620	29 574			GCSV E	GEOSEC STA 337	GOG 4	517N	124 35W S	GECS KMV
730	1 674			GCSV B	GEOSEC STA 340	GOG 10	286N	123 371W S	GECS KMV
1421	1 674			GCSV E	GEOSEC STA 340	GOG 10	272N	123 400W S	GECS KMV
616	6 674			GCSV B	GEOSEC STA 345	GOG 22	314N	122 130W S	GECS KMV
1633	6 674			GCSV E	GEOSEC STA 345	GOG 22	302N	122 144W S	GECS KMV
1532	8 674			GCSL B	GEOSEC STA 347	GOG 28	302N	121 294W S	GECS KMV
35	9 674			GCSL E	GEOSEC STA 347	GOG 28	319N	121 282W S	GECS KMV

SALINITY, TEMPERATURE, DEPTH

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1400	18 574			GCTD	B GEOSEC STA 325	GOG	14 390S	130 552W	S GECS KMV
1750	18 574			GCTD	E GEOSEC STA 325	GOG	14 391S	130 558W	S GECS KMV
244	21 574			GCTD	B GEOSEC STA 327	GOG	11 408S	125 547W	S GECS KMV
720	21 574			GCTD	E GEOSEC STA 327	GOG	11 404S	125 564W	S GECS KMV
1700	22 574			GCTD	B GEOSEC STA 329	GOG	7 416S	125 248W	S GECS KMV
2150	22 574			GCTD	E GEOSEC STA 329	GOG	7 387S	125 271W	S GECS KMV
645	23 574			GCTD	B GEOSEC STA 330	GOG	6 54S	125 172W	S GECS KMV
1123	23 574			GCTD	E GEOSEC STA 330	GOG	6 32S	125 180W	S GECS KMV
1800	25 574			GCTD	B GEOSEC STA 332	GOG	3 6S	124 527W	S GECS KMV
5	26 574			GCTD	E GEOSEC STA 332	GOG	3 5S	124 535W	S GECS KMV
930	26 574			GCTD	B GEOSEC STA 333	GOG	1 301S	124 437W	S GECS KMV
1415	26 574			GCTD	E GEOSEC STA 333	GOG	1 282S	124 411W	S GECS KMV
1930	27 574			GCTD	B GEOSEC STA 335	GOG	1 311N	124 316W	S GECS KMV
2335	27 574			GCTD	E GEOSEC STA 335	GOG	1 346N	124 327W	S GECS KMV
728	28 574			GCTD	B GEOSEC STA 336	GOG	3 5N	124 212W	S GECS KMV
1246	28 574			GCTD	E GEOSEC STA 336	GOG	3 27N	124 233W	S GECS KMV
1651	30 574			GCTD	B GEOSEC STA 338	GOG	6 362N	123 470W	S GECS KMV
453	31 574			GCTD	E GEOSEC STA 338	GOG	6 412N	123 425W	S GECS KMV
1450	31 574			GCTD	B GEOSEC STA 339	GOG	8 310N	123 379W	S GECS KMV
2034	31 574			GCTD	E GEOSEC STA 339	GOG	8 346N	123 380W	S GECS KMV
335	2 674			GCTD	B GEOSEC STA 341	GOG	12 311N	123 227W	S GECS KMV
335	2 674			GCTD	E GEOSEC STA 341	GOG	12 311N	123 227W	S GECS KMV
2045	2 674			GCTD	B GEOSEC STA 342	GOG	14 294N	123 76W	S GECS KMV
115	3 674			GCTD	E GEOSEC STA 342	GOG	14 297N	123 80W	S GECS KMV
506	5 674			GCTD	B GEOSEC STA 344	GOG	19 297N	122 422W	S GECS KMV
930	5 674			GCTD	E GEOSEC STA 344	GOG	19 304N	122 437W	S GECS KMV
1310	7 674			GCTD	B GEOSEC STA 346	GOG	25 291N	121 506W	S GECS KMV
1810	7 674			GCTD	E GEOSEC STA 346	GOG	25 307N	121 505W	S GECS KMV

*** BATHYTHERMOGRAPH ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
0	14 574			BTX	NO. SAMPLES=04	BTS	17 266S	149 207W	S	GECS KMV
0	15 574			BTX	NO. SAMPLES=12	BTS	16 512S	146 54W	S	GECS KMV
0	16 574			BTX	NO. SAMPLES=12	BTS	16 114S	141 592W	S	GECS KMV
0	17 574			BTX	NO. SAMPLES=12	BTS	15 334S	137 361W	S	GECS KMV
0	18 574			BTX	NO. SAMPLES=10	BTS	14 587S	133 193W	S	GECS KMV
0	19 574			BTX	NO. SAMPLES=12	BTS	14 334S	129 538W	S	GECS KMV
0	20 574			BTX	NO. SAMPLES=03	BTS	14 33S	126 157W	S	GECS KMV
0	21 574			BTX	NO. SAMPLES=01	BTS	12 51S	125 595W	S	GECS KMV
0	22 574			BTX	NO. SAMPLES=01	BTS	9 165S	125 345W	S	GECS KMV
0	23 574			BTX	NO. SAMPLES=04	BTS	7 161S	125 248W	S	GECS KMV
0	25 574			BTX	NO. SAMPLES=02	BTS	4 348S	125 143W	S	GECS KMV
0	26 574			BTX	NO. SAMPLES=02	BTS	3 5S	124 535W	S	GECS KMV
0	27 574			BTX	NO. SAMPLES=02	BTS	0 34N	124 354W	S	GECS KMV
0	28 574			BTX	NO. SAMPLES=03	BTS	1 392N	124 326W	S	GECS KMV
0	29 574			BTX	NO. SAMPLES=00	BTS	4 499N	124 49W	S	GECS KMV
0	30 574			BTX	NO. SAMPLES=01	BTS	4 512N	123 538W	S	GECS KMV
0	31 574			BTX	NO. SAMPLES=02	BTS	6 389N	123 429W	S	GECS KMV
0	1 674			BTX	NO. SAMPLES=03	BTS	9 121N	123 355W	S	GECS KMV
0	2 674			BTX	NO. SAMPLES=03	BTS	11 579N	123 325W	S	GECS KMV
0	3 674			BTX	NO. SAMPLES=02	BTS	14 296N	123 85W	S	GECS KMV
0	4 674			BTX	NO. SAMPLES=02	BTS	16 317N	123 29W	S	GECS KMV
0	5 674			BTX	NO. SAMPLES=03	BTS	18 419N	122 445W	S	GECS KMV
0	6 674			BTX	NO. SAMPLES=03	BTS	21 365N	122 225W	S	GECS KMV
0	7 674			BTX	NO. SAMPLES=03	BTS	23 345N	122 62W	S	GECS KMV
0	8 674			BTX	NO. SAMPLES=03	BTS	26 184N	121 443W	S	GECS KMV

99 END SAMPLE INDEX