

EURYDICE EXPEDITION *Leg 1*

R/V THOMAS WASHINGTON

INFORMAL REPORT AND INDEX OF  
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

San Diego, Calif. (4 September 1974)

to

Honolulu, Hawaii (16 September 1974)

Chief Scientist - G. Shor

Resident Marine Tech - B. Wilson

Post-Cruise Processing by - S. Smith, G. Psaropulos, R. Lingley

Prepared by

Underway Data Processing Group

S.I.O. Geological Data Center

Scripps Institution of Oceanography

La Jolla, California

October 16, 1974

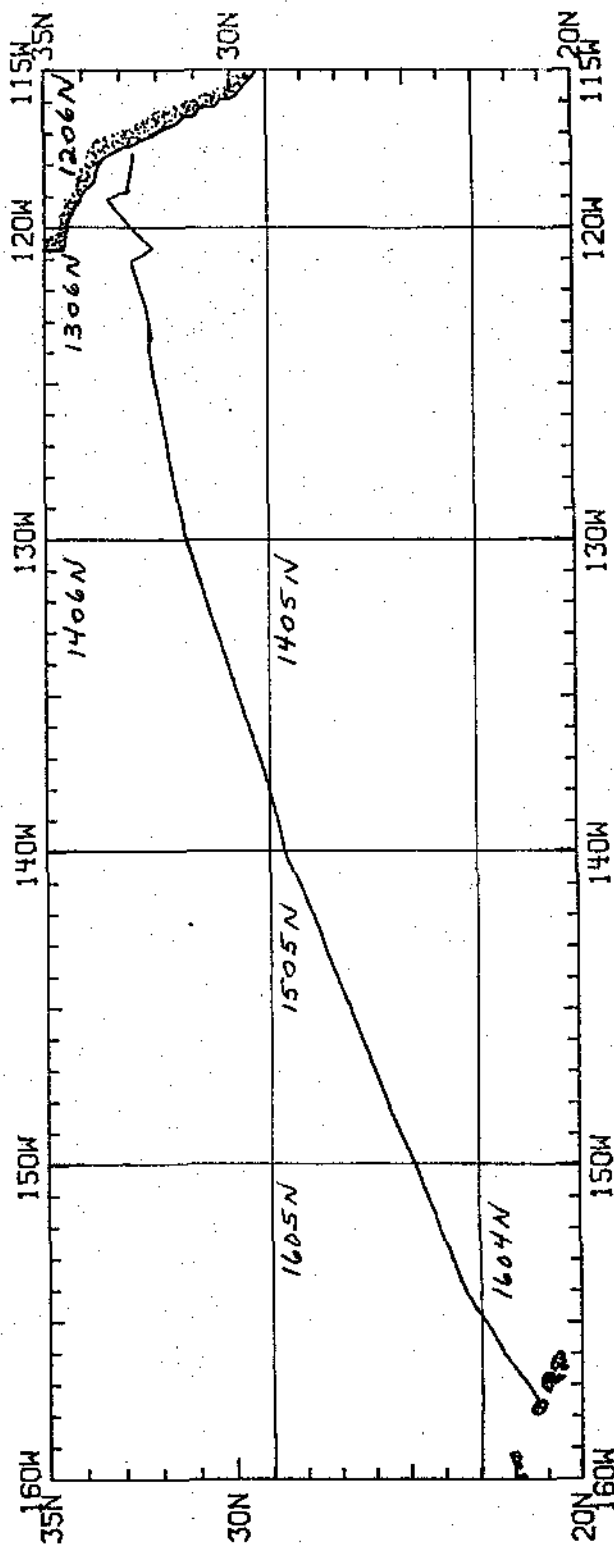
## Preliminary Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

### 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
-



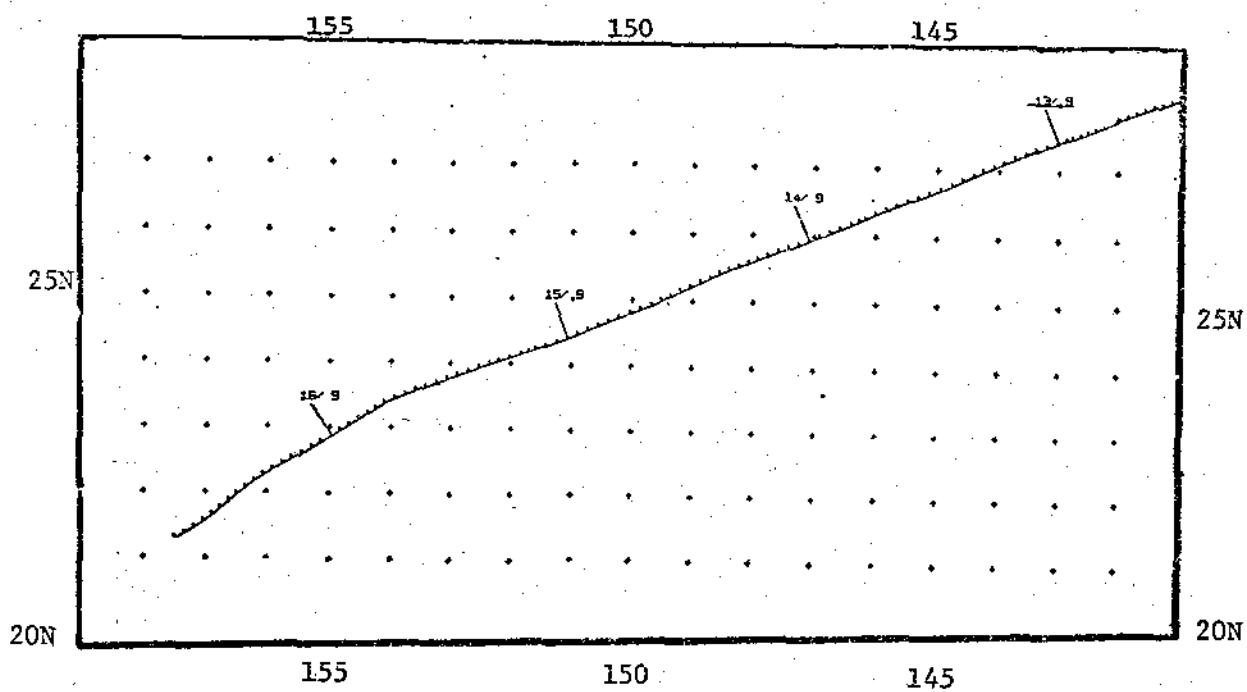
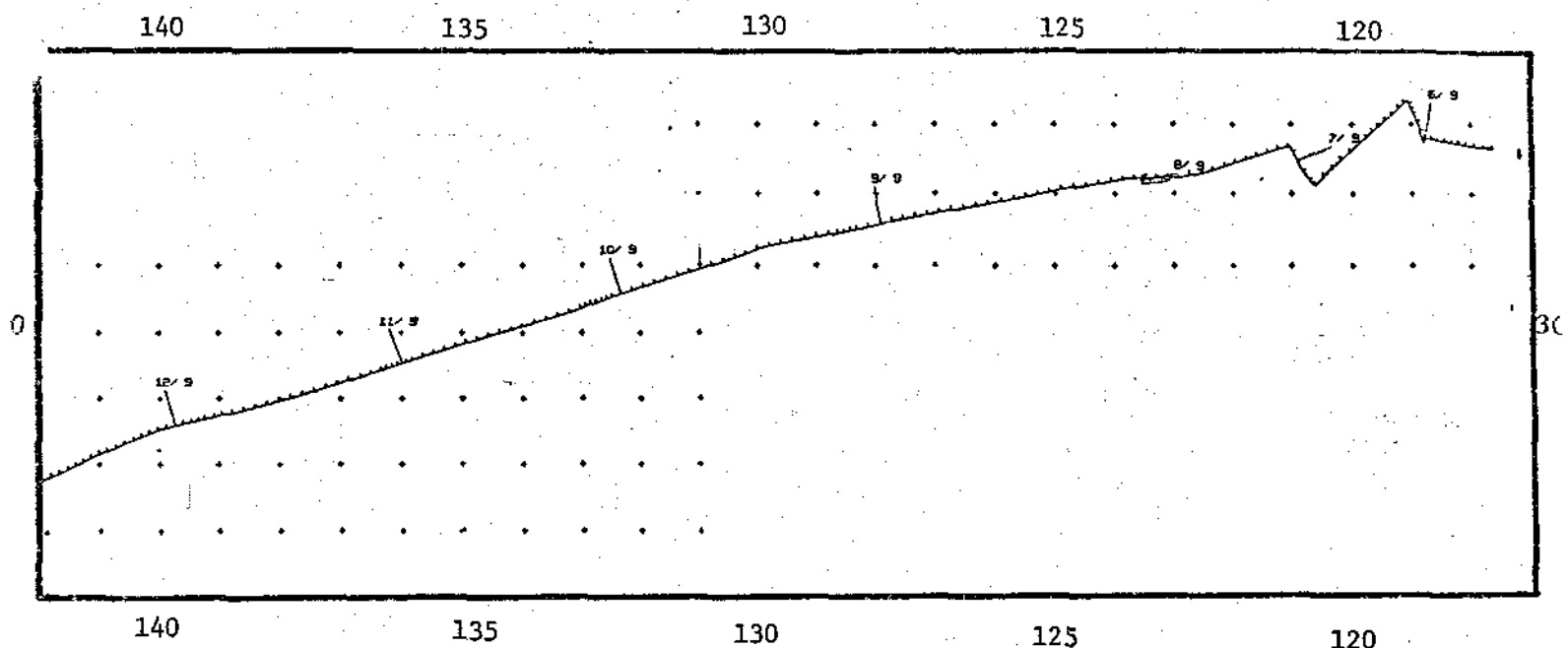
# EURYDICE EXPEDITION

Chief Scientist - G. Shor  
 San Diego - Honolulu, Hawaii (4 - 16 September 1974)

## TOTAL MILEAGE

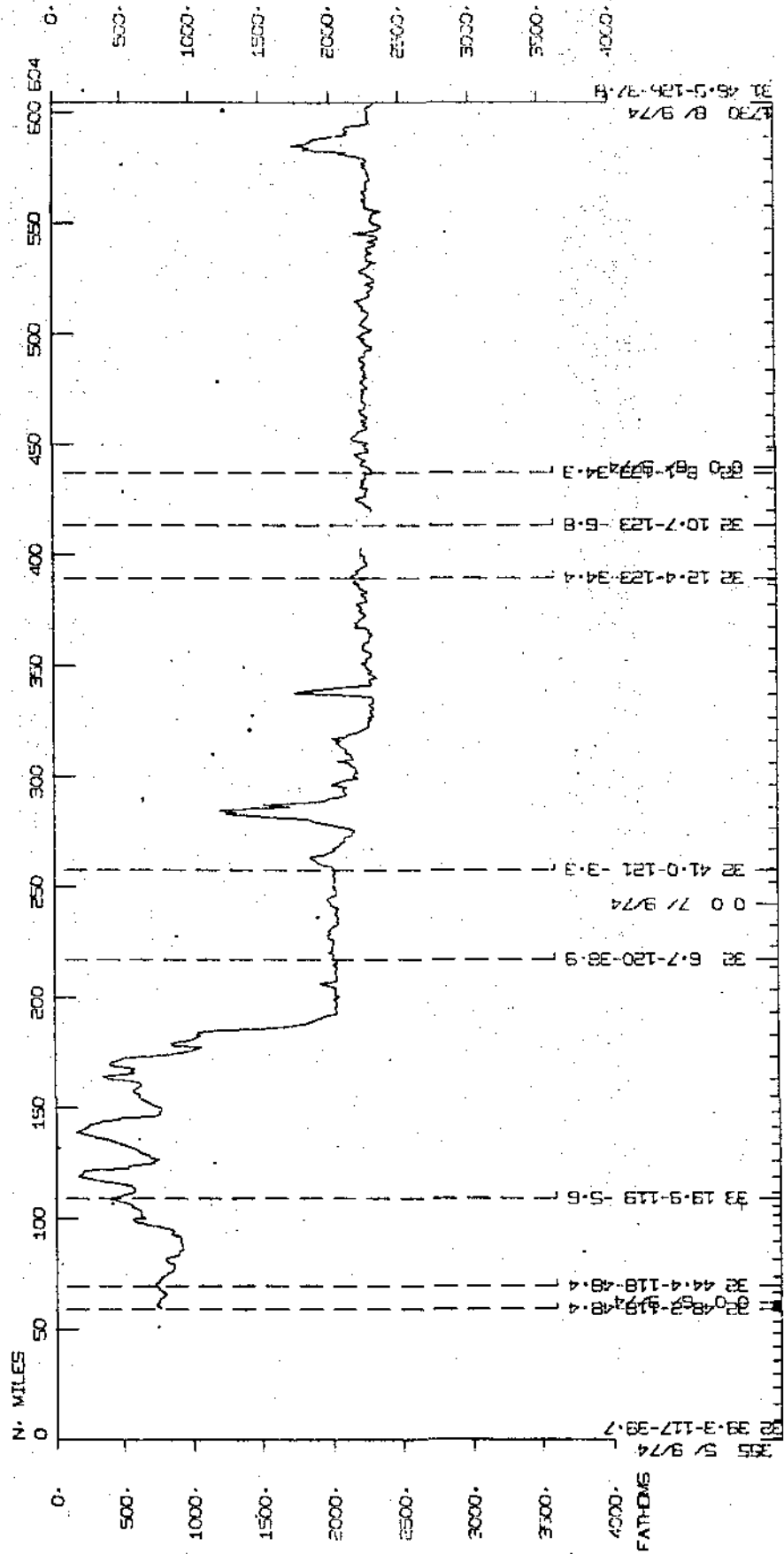
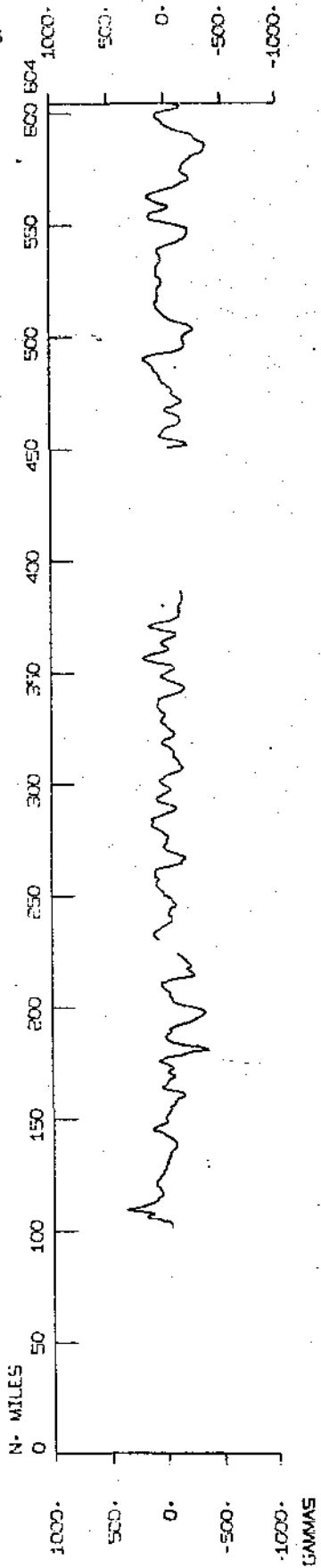
- 1) Cruise - 2380 miles
- 2) Bathymetry - 2180 miles
- 3) Magnetics - 2278 miles
- 4) Seismic Reflection - 2995 miles

2196

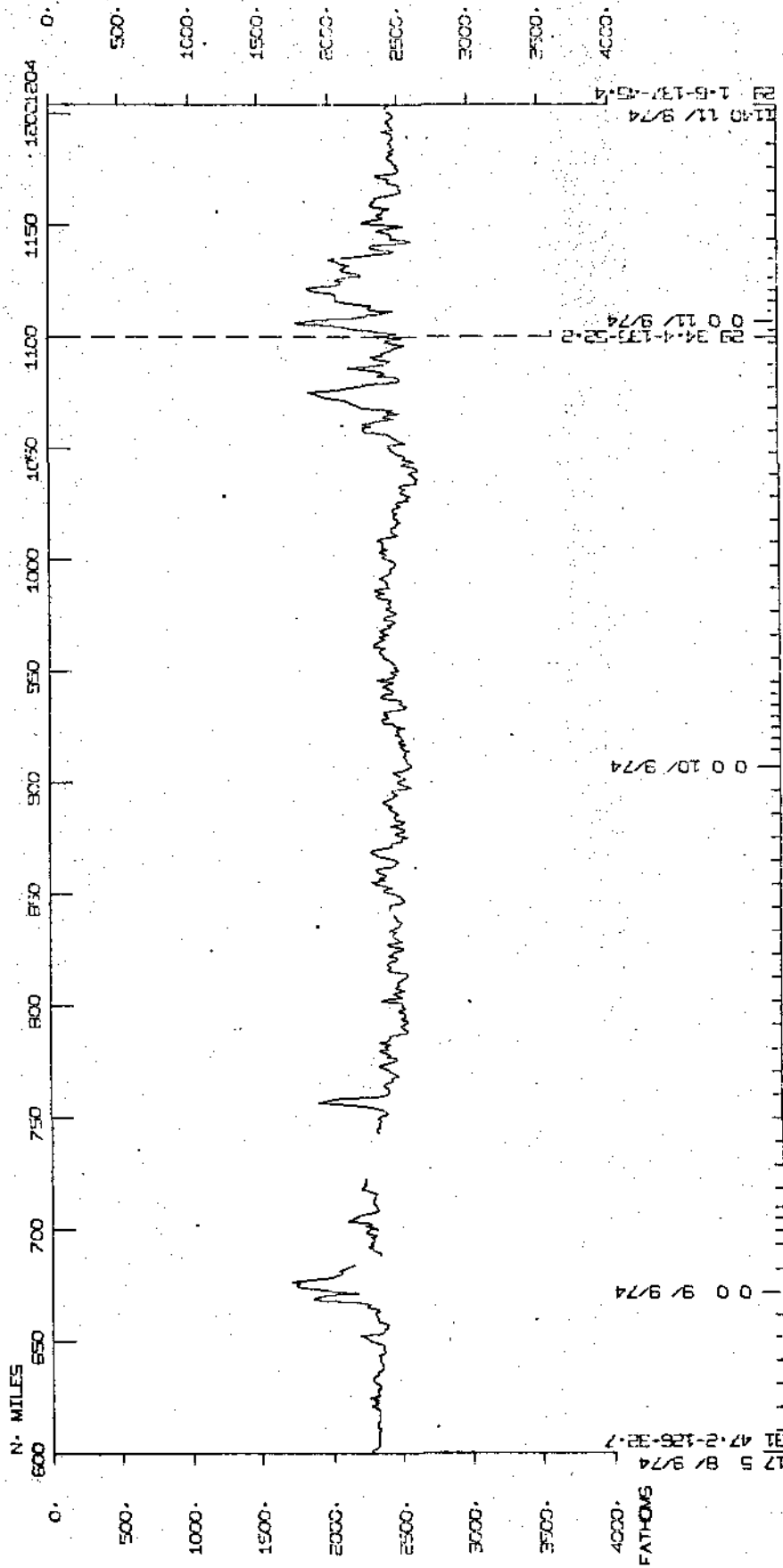
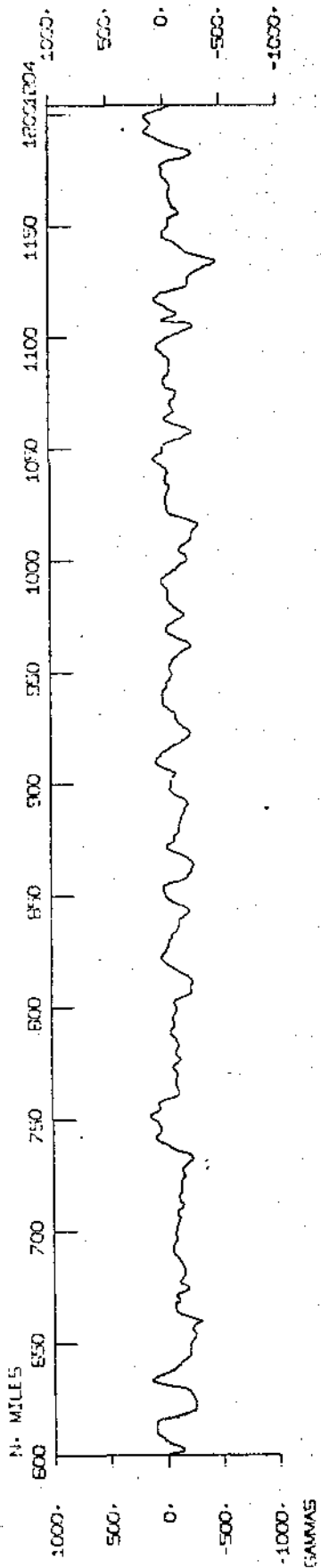


EURYDICE LEG 1 - track plot

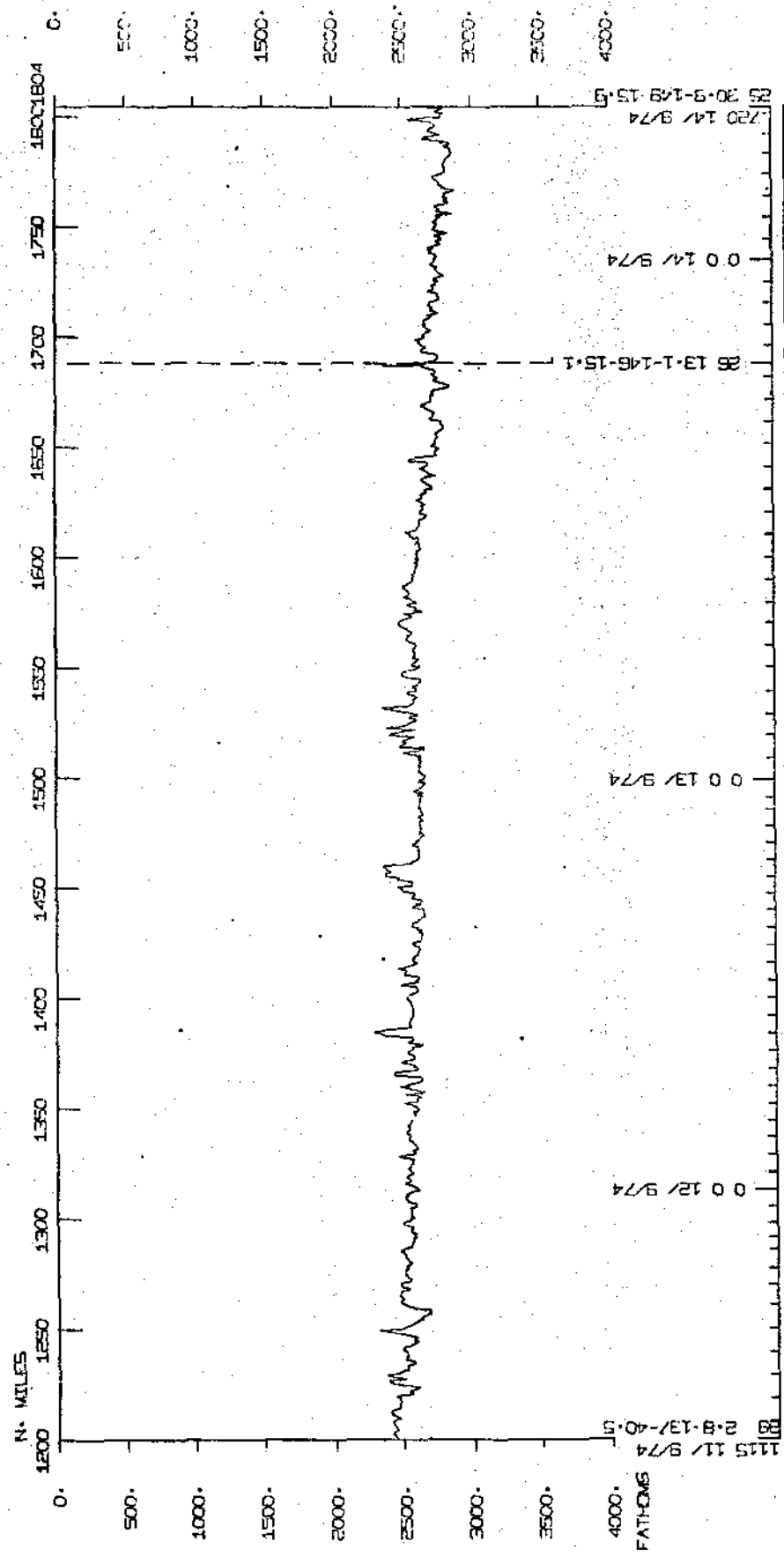
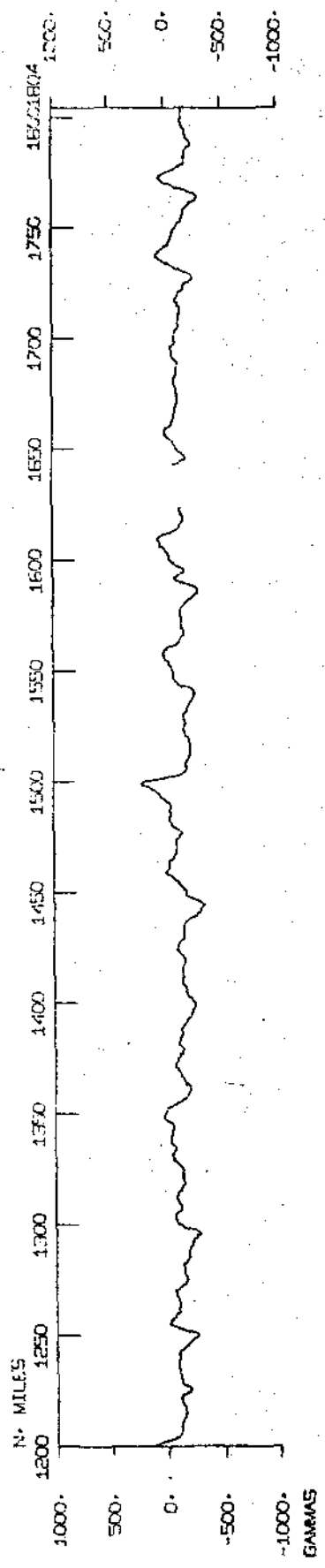
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# ELFORDICE LEG 1

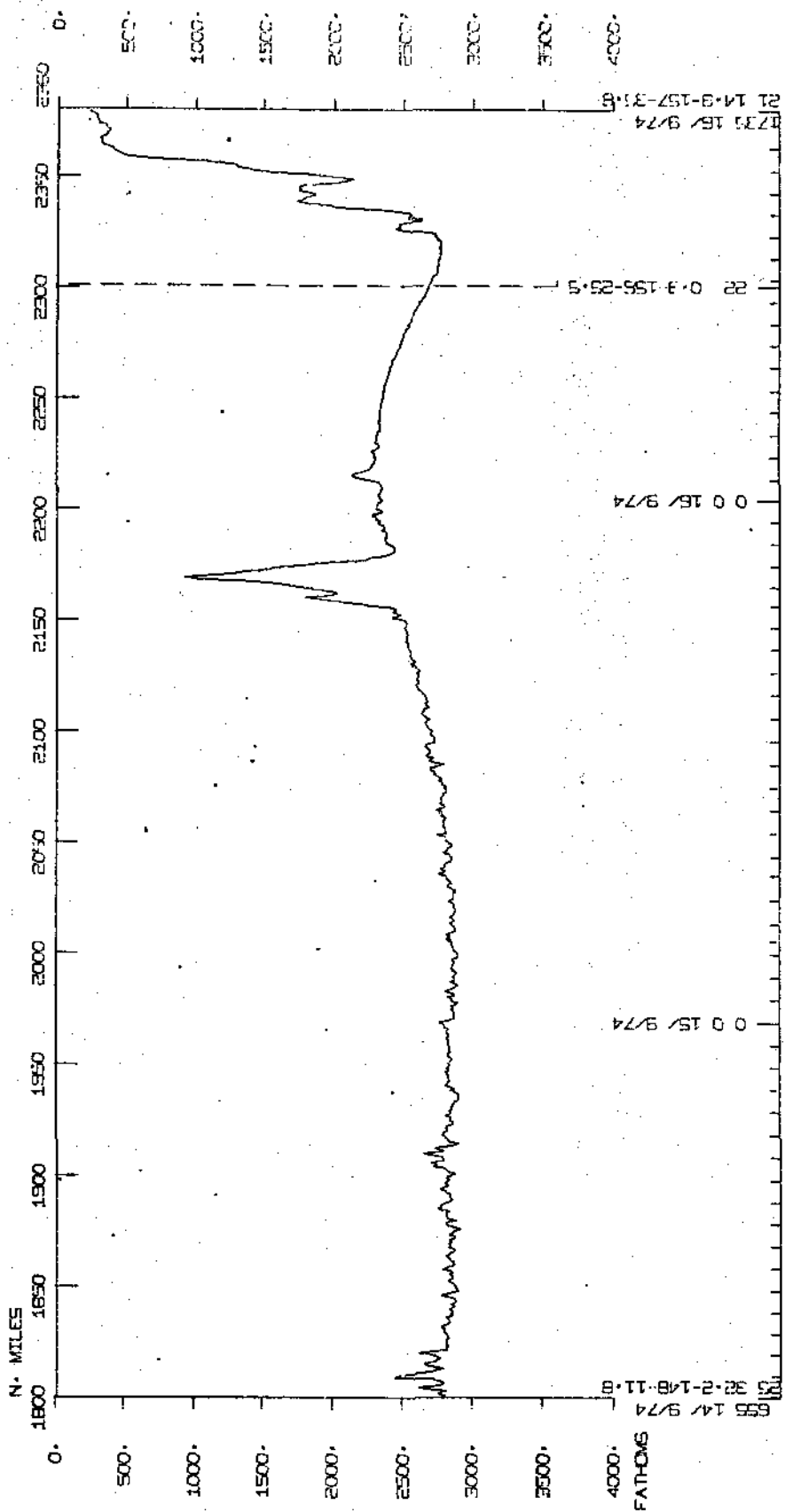
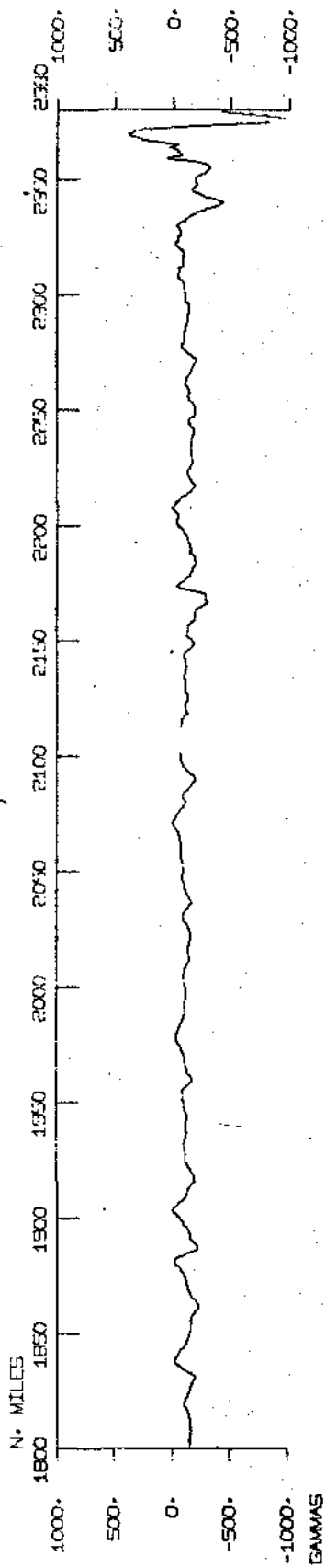


# EURYOICE LEG 1



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 0 0 14/ 9/74  
 25 30-9-149-15-5  
 1720 14/ 9/74

# EURYDICE LEG 1



555 14/ 9/74  
532-2-148-11-B

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22 0-3-155-23-5

1735 16/ 9/74  
21 14-9-157-31-B



LISTED 11 DECEMBER 1974

28 5 974  
1825 16 974LG 8 SAN DIEGO, CALIF.  
LG E HONOLULU, HAWAII32 393N 117 395W S ERDC01WT  
21 145N 157 367W S ERDC01WT

## \*\*\*PERSONNEL\*\*\*

PECS	SHOR, G.	GRD	ERDC01WT
PERT	WILSON, R.	MTG	ERDC01WT
PECT	OTT, J.	SCG	ERDC01WT
PECT	ELSTON, M.	SCG	ERDC01WT
PEAT	HUBENKA, F.	SGG	ERDC01WT
PEAT	BATTEY, R.	SGG	ERDC01WT
PEAT	BONGARD, R.	SGG	ERDC01WT
PE	JOHNSON, F.	NUE	ERDC01WT
PE	MCGOWAN, D.	SIO	ERDC01WT
PE	ONEILL, P.	SIO	ERDC01WT
PE	PSAROPULOS, V.	GDC	ERDC01WT
PE	ROSENDAHL, B.	SIO	ERDC01WT
PE	SHOR, E.	SIO	ERDC01WT
PE	SMITH, S.	GDC	ERDC01WT
PE	SULLIVAN, J.	SIO	ERDC01WT

TIME GMT	DATE D.M.Y.	TIME TZ LOC LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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UNDERWAY DATA - CURATOR T.E. CHASE 2ND FLOOR AQUARIUM (EXT.1534)

## \*\*\* NAVIGATION PLOTS \*\*\*

1804	040974		NVBP B BRIDGE PLOT 01	GDC 32 391N 117 136W	ERDC01WT
2316	050974		NVBP E BRIDGE PLOT 01	GDC 32 465N 118 479W	ERDC01WT
2316	050974		NVBP B BRIDGE PLOT 02	GDC 32 465N 118 479W	ERDC01WT
1000	060974		NVBP E BRIDGE PLOT 02	GDC 33 137N 119 141W	ERDC01WT
1000	060974		NVBP B BRIDGE PLOT 03	GDC 33 137N 119 141W	ERDC01WT
2136	100974		NVBP E BRIDGE PLOT 03	GDC 32 066N 120 388W	ERDC01WT
2136	100974		NVBP B BRIDGE PLOT 04	GDC 32 066N 120 388W	ERDC01WT
0834	150974		NVBP E BRIDGE PLOT 04	GDC 23 579N 152 234W	ERDC01WT
0834	150974		NVBP B BRIDGE PLOT 05	GDC 23 579N 152 234W	ERDC01WT
2330	150974		NVBP E BRIDGE PLOT 05	GDC 22 595N 154 447W	ERDC01WT
2330	150974		NVBP B BRIDGE PLOT 06	GDC 22 595N 154 447W	ERDC01WT
0832	160974		NVBP E BRIDGE PLOT 06	GDC 22 087N 156 140W	ERDC01WT
0832	160974		NVBP B BRIDGE PLOT 07	GDC 22 087N 156 140W	ERDC01WT
1015	160974		NVBP E BRIDGE PLOT 07	GDC 21 566N 156 304W	ERDC01WT
300	5 974		NVCP B COMPUTER DR PLOT 01	GDC 32 393N 117 395W S	ERDC01WT
1215	7 974		NVCP E COMPUTER DR PLOT 01	GDC 32 134N 123 2W S	ERDC01WT
1300	7 974		NVCP B COMPUTER DR PLOT 02	GDC 32 140N 123 88W S	ERDC01WT
600	9 974		NVCP E COMPUTER DR PLOT 02	GDC 31 252N 128 487W S	ERDC01WT
910	9 974		NVCP B COMPUTER DR PLOT 03	GDC 31 194N 129 273W S	ERDC01WT
345	11 974		NVCP E COMPUTER DR PLOT 03	GDC 29 266N 136 190W S	ERDC01WT
400	11 974		NVCP B COMPUTER DR PLOT 04	GDC 29 262N 136 205W S	ERDC01WT
0	13 974		NVCP E COMPUTER DR PLOT 04	GDC 27 254N 143 3W S	ERDC01WT
100	13 974		NVCP B COMPUTER DR PLOT 05	GDC 27 218N 143 109W S	ERDC01WT
1815	14 974		NVCP E COMPUTER DR PLOT 05	GDC 24 463N 150 34W S	ERDC01WT
1845	14 974		NVCP B COMPUTER DR PLOT 06	GDC 24 444N 150 86W S	ERDC01WT
1740	16 974		NVCP E COMPUTER DR PLOT 06	GDC 21 145N 157 367W S	ERDC01WT

TIME GMT	DATE D.M.Y.	TIME T2 LOC	SAMP LOC CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
***FATHOGRAMS ***								
28	5	974	DPRT B	GDR 12KHZ-ROLL 01	GDC 32	393N 117	395W S	ERDC01WT
440	8	974	DPRT E	GDR 12KHZ-ROLL 01	GDC 32	112N 124	11W S	ERDC01WT
451	8	974	DPRT B	GDR 12KHZ-ROLL 02	GDC 32	109N 124	33W S	ERDC01WT
1411	12	974	DPRT E	GDR 12KHZ-ROLL 02	GDC 27	521N 141	430W S	ERDC01WT
1437	12	974	DPRT B	GDR 12KHZ-ROLL 03	GDC 27	507N 141	466W S	ERDC01WT
1740	16	974	DPRT E	GDR 12KHZ-ROLL 03	GDC 21	145N 157	367W S	ERDC01WT
1540	5	974	DPR3 B	GDR 3.5KHZ-ROLL 01	GDC 32	481N 118	481W S	ERDC01WT
1530	7	974	DPR3 E	GDR 3.5KHZ-ROLL 01	GDC 32	129N 123	333W S	ERDC01WT
1650	7	974	DPR3 B	GDR 3.5KHZ-ROLL 02	GDC 32	128N 123	338W S	ERDC01WT
1835	8	974	DPR3 E	GDR 3.5KHZ-ROLL 02	GDC 31	445N 126	510W S	ERDC01WT
1850	8	974	DPR3 B	GDR 3.5KHZ-ROLL 03	GDC 31	440N 126	541W S	ERDC01WT
610	9	974	DPR3 E	GDR 3.5KHZ-ROLL 03	GDC 31	249N 128	507W S	ERDC01WT
815	9	974	DPR3 B	GDR 3.5KHZ-ROLL 04	GDC 31	209N 129	162W S	ERDC01WT
209	11	974	DPR3 E	GDR 3.5KHZ-ROLL 04	GDC 29	291N 136	103W S	ERDC01WT
215	11	974	DPR3 B	GDR 3.5KHZ-ROLL 05	GDC 29	289N 136	108W S	ERDC01WT
2340	12	974	DPR3 E	GDR 3.5KHZ-ROLL 05	GDC 27	267N 142	567W S	ERDC01WT
2346	12	974	DPR3 B	GDR 3.5KHZ-ROLL 06	GDC 27	263N 142	578W S	ERDC01WT
1458	15	974	DPR3 E	GDR 3.5KHZ-ROLL 06	GDC 23	340N 153	343W S	ERDC01WT
1512	15	974	DPR3 B	GDR 3.5KHZ-ROLL 07	GDC 23	331N 153	367W S	ERDC01WT
1753	16	974	DPR3 E	GDR 3.5KHZ-ROLL 07	GDC 21	145N 157	367W S	ERDC01WT

## \*\*\*MAGNETOMETER\*\*\*

704	6	974	MGR B	MAGNETICS ROLL 01	GDC 33	135N 119	20W S	ERDC01WT
630	13	974	MGR E	MAGNETICS ROLL 01	GDC 27	4N 144	89W S	ERDC01WT
645	13	974	MGR B	MAGNETICS ROLL 02	GDC 26	594N 144	116W S	ERDC01WT
1740	16	974	MGR E	MAGNETICS ROLL 02	GDC 21	145N 157	367W S	ERDC01WT

TIME GMT	DATE D.M.Y.	TIME TZ LOC LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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## \*\*\*GRAVIMETRIC RECORDS\*\*\*

1600	6	974	GVR B	GRAVITYMETER ROLL 01	LMD 32	439N	119 541W S	ERDC01WT
729	10	974	GVR E	GRAVITYMETER ROLL 01	LMD 30	208N	133 79W S	ERDC01WT
730	10	974	GVR B	GRAVITYMETER ROLL 02	LMD 30	208N	133 81W S	ERDC01WT
400	13	974	GVR E	GRAVITYMETER ROLL 02	LMD 27	103N	143 427W S	ERDC01WT
730	13	974	GVR B	GRAVITYMETER ROLL 03	LMD 26	568N	144 184W S	ERDC01WT
2256	13	974	GVR E	GRAVITYMETER ROLL 03	LMD 25	593N	146 531W S	ERDC01WT
1600	6	974	GVXR B	GRAV XCOUPLE ROLL 01	LMD 32	439N	119 541W S	ERDC01WT
400	11	974	GVXR E	GRAV XCOUPLE ROLL 01	LMD 29	262N	136 205W S	ERDC01WT
510	11	974	GVXR B	GRAV XCOUPLE ROLL 02	LMD 29	228N	136 319W S	ERDC01WT
2256	13	974	GVXR E	GRAV XCOUPLE ROLL 02	LMD 25	593N	146 531W S	ERDC01WT

## \*\*\* SEISMIC REFLECTION PROFILES \*\*\*

300	7	974	SPRS B	10SEC AIRGUN ROLL 01	GDC 32	384N	121 144W S	ERDC01WT
1740	16	974	SPRS E	10SEC AIRGUN ROLL 01	GDC 21	145N	157 367W S	ERDC01WT
300	7	974	SPR2 B	02SEC AIRGUN ROLL 01	GDC 32	384N	121 144W S	ERDC01WT
1740	16	974	SPR2 E	02SEC AIRGUN ROLL 01	GDC 21	145N	157 367W S	ERDC01WT

## \*\*\* SONOBUOY DROP \*\*\* SEISMIC REFRACTION MONITORING

1804	7	974	SRAG B	MOORED BUOY 01	DDM 32	126N	123 343W S	ERDC01WT
237	8	974	SRAG E	MOORED BUOY 01	DDM 32	132N	123 380W S	ERDC01WT
1936	8	974	SRAG B	SONOBUOY RUN 01	DDM 31	426N	127 34W S	ERDC01WT
2046	8	974	SRAG E	SONOBUOY RUN 01	DDM 31	405N	127 174W S	ERDC01WT
210	9	974	SRAG B	SONOBUOY RUN 02	DDM 31	298N	128 212W S	ERDC01WT
522	9	974	SRAG E	SONOBUOY RUN 02	DDM 31	263N	128 414W S	ERDC01WT
244	10	974	SRAG B	SONOBUOY RUN 03	DDM 30	300N	132 387W S	ERDC01WT
620	10	974	SRAG E	SONOBUOY RUN 03	DDM 30	238N	132 585W S	ERDC01WT
1	11	974	SRAG B	SONOBUOY RUN 04	DDM 29	322N	135 597W S	ERDC01WT
10	11	974	SRAG E	SONOBUOY RUN 04	DDM 29	306N	136 48W S	ERDC01WT
109	11	974	SRAG B	SONOBUOY RUN 05	DDM 29	306N	136 49W S	ERDC01WT
331	11	974	SRAG E	SONOBUOY RUN 05	DDM 29	270N	136 177W S	ERDC01WT
2140	11	974	SRAG B	SONOBUOY RUN 06	DDM 28	392N	139 258W S	ERDC01WT
0	12	974	SRAG E	SONOBUOY RUN 06	DDM 28	352N	139 454W S	ERDC01WT
0	12	974	SRAG B	SONOBUOY RUN 07	DDM 28	352N	139 454W S	ERDC01WT
320	12	974	SRAG E	SONOBUOY RUN 07	DDM 28	273N	140 137W S	ERDC01WT

TIME GMT	DATE D.M.Y.	TIME TZ LOC LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
700	12	974	SRAG B	SONOBUOY RUN 08	DDM 28	156N	140 434W	S ERDC01WT
705	12	974	SRAG E	SONOBUOY RUN 08	DDM 28	153N	140 441W	S ERDC01WT
718	12	974	SRAG B	SONOBUOY RUN 09	DDM 28	146N	140 459W	S ERDC01WT
922	12	974	SRAG E	SONOBUOY RUN 09	DDM 28	78N	141 29W	S ERDC01WT
0	13	974	SRAG B	SONOBUOY RUN 10	DDM 27	254N	143 3W	S ERDC01WT
102	13	974	SRAG E	SONOBUOY RUN 10	DDM 27	217N	143 112W	S ERDC01WT
458	13	974	SRAG B	SONOBUOY RUN 11	DDM 27	63N	143 533W	S ERDC01WT
650	13	974	SRAG E	SONOBUOY RUN 11	DDM 26	591N	144 125W	S ERDC01WT
2229	13	974	SRAG B	SONOBUOY RUN 12	DDM 26	9N	146 485W	S ERDC01WT
10	14	974	SRAG E	SONOBUOY RUN 12	DDM 25	547N	147 55W	S ERDC01WT
535	14	974	SRAG B	SONOBUOY RUN 13	DDM 25	364N	147 589W	S ERDC01WT
725	14	974	SRAG E	SONOBUOY RUN 13	DDM 25	306N	148 167W	S ERDC01WT
1916	14	974	SRAG B	SONOBUOY RUN 14	DDM 24	423N	150 140W	S ERDC01WT
2110	14	974	SRAG E	SONOBUOY RUN 14	DDM 24	352N	150 338W	S ERDC01WT
2245	14	974	SRAG B	SONOBUOY RUN 15	DDM 24	292N	150 499W	S ERDC01WT
40	15	974	SRAG E	SONOBUOY RUN 15	DDM 24	220N	151 98W	S ERDC01WT
502	15	974	SRAG B	SONOBUOY RUN 16	DDM 24	86N	151 489W	S ERDC01WT
713	15	974	SRAG E	SONOBUOY RUN 16	DDM 24	12N	152 134W	S ERDC01WT
41	16	974	SRAG B	SONOBUOY RUN 17	DDM 22	479N	155 39W	S ERDC01WT
156	16	974	SRAG E	SONOBUOY RUN 17	DDM 22	413N	155 148W	S ERDC01WT
203	16	974	SRAG B	SONOBUOY RUN 18	DDM 22	407N	155 159W	S ERDC01WT
332	16	974	SRAG E	SONOBUOY RUN 18	DDM 22	327N	155 301W	S ERDC01WT

## \*\*\*SEISMIC REFRACTION\*\*\*

125	6	974	SRUR B	SEISMIC RUN 01	DDM 32	459N	118 489W	S ERDC01WT
700	6	974	SRUR E	SEISMIC RUN 01	DDM 33	133N	119 19W	S ERDC01WT
2055	6	974	SRUR B	SEISMIC RUN 02	DDM 32	89N	120 356W	S ERDC01WT
107	7	974	SRUR E	SEISMIC RUN 02	DDM 32	377N	121 7W	S ERDC01WT
1834	7	974	SRUR B	SEISMIC RUN 03	DDM 32	125N	123 345W	S ERDC01WT
322	8	974	SRUR E	SEISMIC RUN 03	DDM 32	129N	123 463W	S ERDC01WT

TIME GMT	DATE D.M.Y.	TIME TZ LOC	SAMP LOC CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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## BATHYTHERMOGRAPHS - CURATORIAL GROUP, (EXT. 1135)

0 5 974	BTX	NO. SAMPLES = 1	BTS 32 393N 117 395W S	ERDC01WT
0 6 974	BTX	NO. SAMPLES = 3	BTS 32 464N 118 480W S	ERDC01WT
0 7 974	BTX	NO. SAMPLES = 2	BTS 32 279N 120 554W S	ERDC01WT
0 8 974	BTX	NO. SAMPLES = 3	BTS 32 103N 123 353W S	ERDC01WT
0 9 974	BTX	NO. SAMPLES = 4	BTS 31 343N 127 552W S	ERDC01WT
0 10 974	BTX	NO. SAMPLES = 4	BTS 30 350N 132 205W S	ERDC01WT
0 11 974	BTX	NO. SAMPLES = 5	BTS 29 322N 135 596W S	ERDC01WT
0 12 974	BTX	NO. SAMPLES = 3	BTS 28 352N 139 454W S	ERDC01WT
0 13 974	BTX	NO. SAMPLES = 4	BTS 27 254N 143 3W S	ERDC01WT
0 14 974	BTX	NO. SAMPLES = 4	BTS 25 553N 147 38W S	ERDC01WT
0 15 974	BTX	NO. SAMPLES = 2	BTS 24 245N 151 28W S	ERDC01WT