

EURYDICE EXPEDITION

LEG 3

R/V THOMAS WASHINGTON

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

Pago Pago, Samoa (4 November 1974)

to

Noumea, New Caledonia (30 November 1974)

Chief Scientist - J. Hawkins

Resident Marine Tech - B. Wilson

Post-Cruise Processing by - S. Smith, U. Albright,

G. Psaropulos, R. Lingley

Prepared by

Underway Data Processing Group

S.I.O. Geological Data Center

Scripps Institution of Oceanography

La Jolla, California

January 10, 1975

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

Contents:

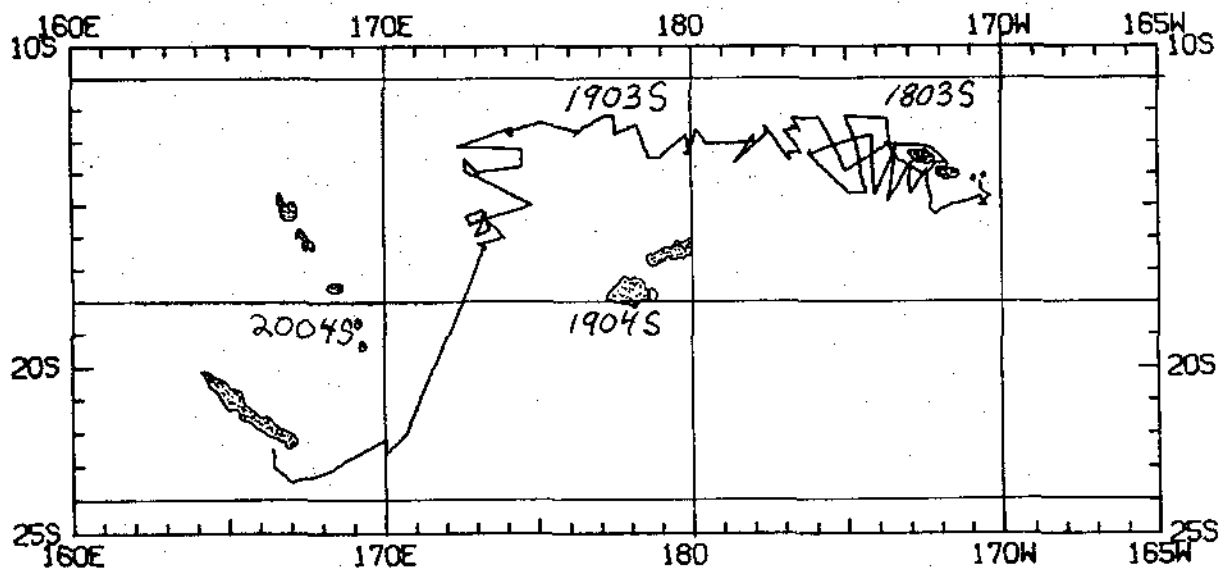
Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).

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 (452-2182):

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
-



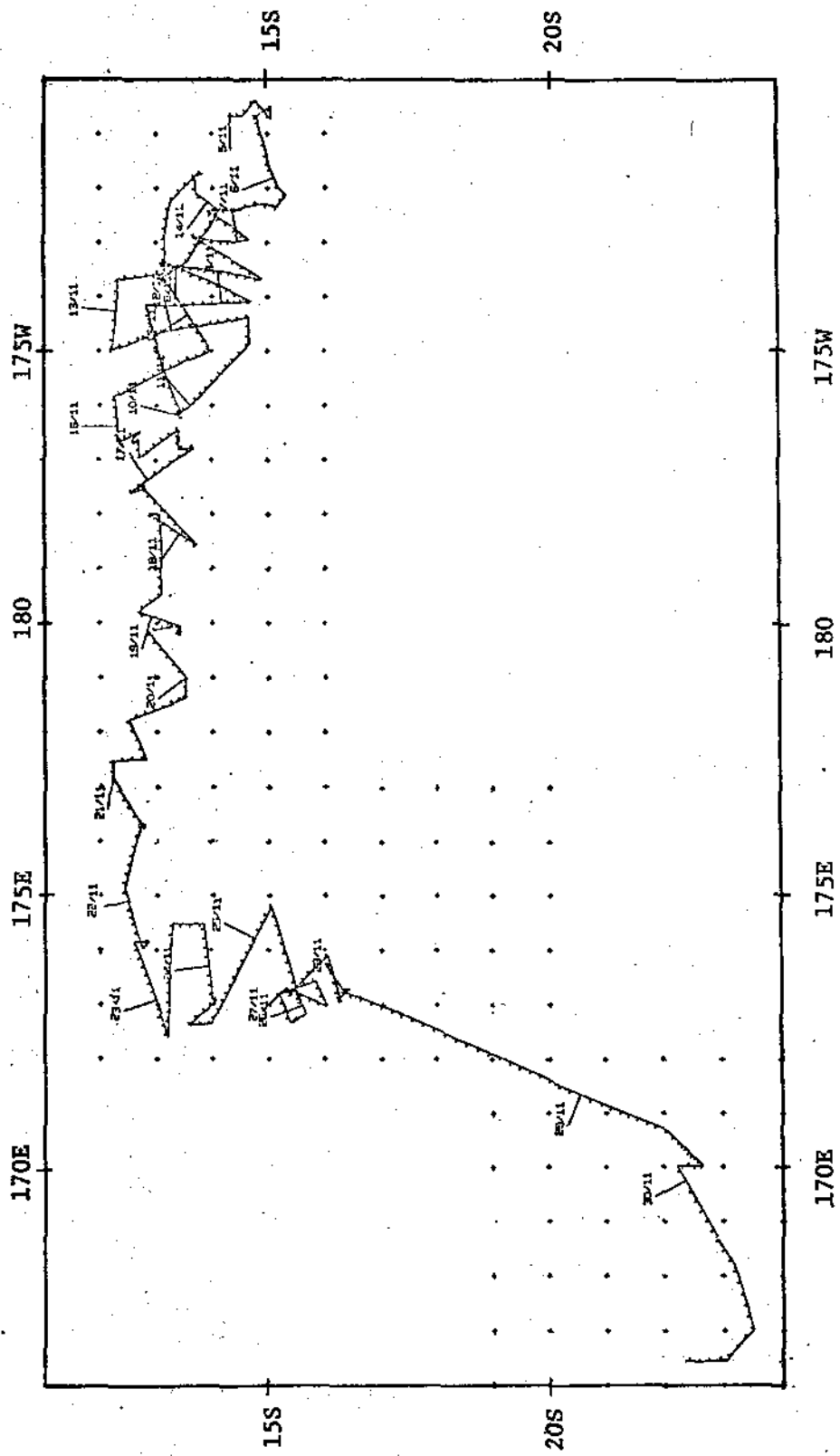
EURYDICE EXPEDITION
Leg 3

Chief Scientist - J. Hawkins

Pago Pago, Samoa - Noumea, New Caledonia (4 - 30 November 1974)

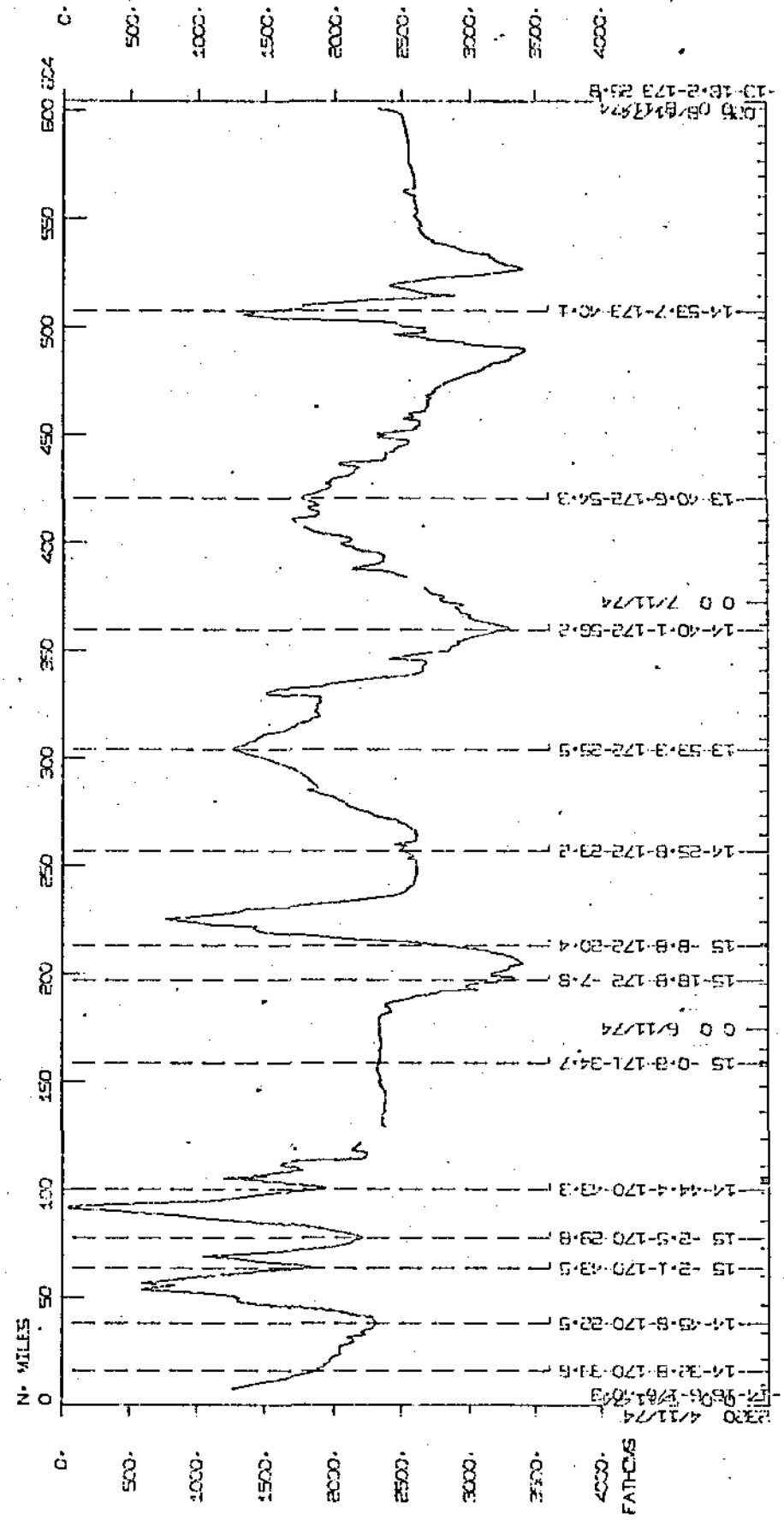
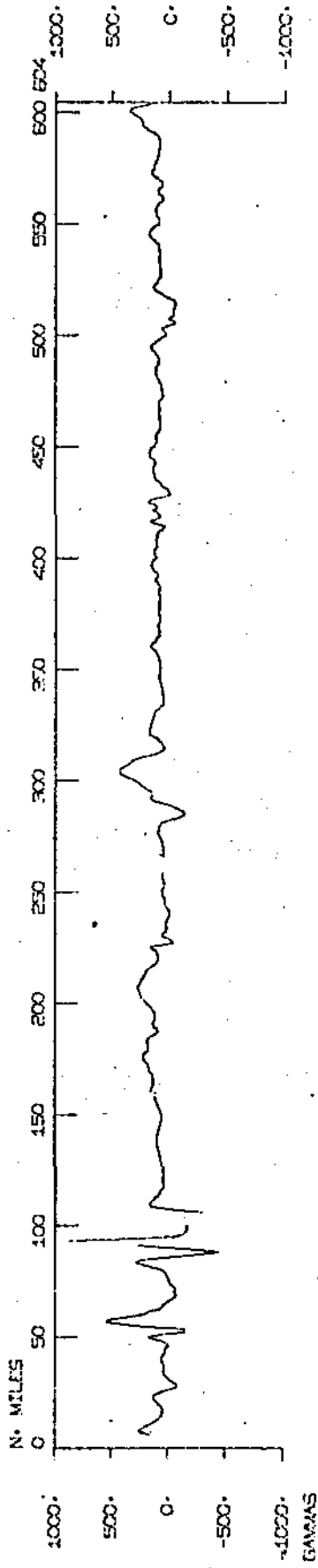
TOTAL MILEAGE

- 1) Cruise - 4929 miles
- 2) Bathymetry - 4816 miles
- 3) Magnetics - 4659 miles
- 4) Seismic Reflection - 4664 miles

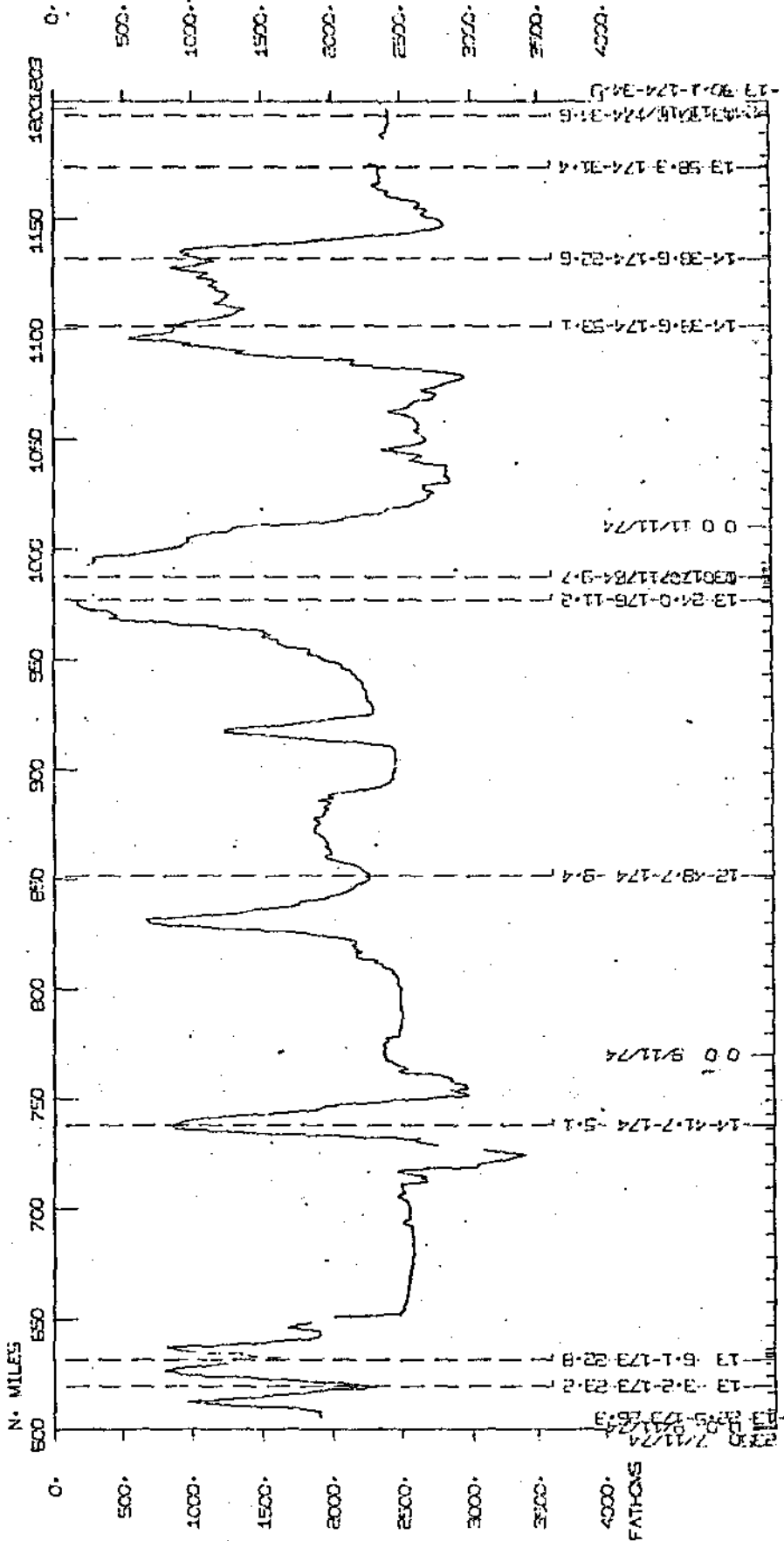
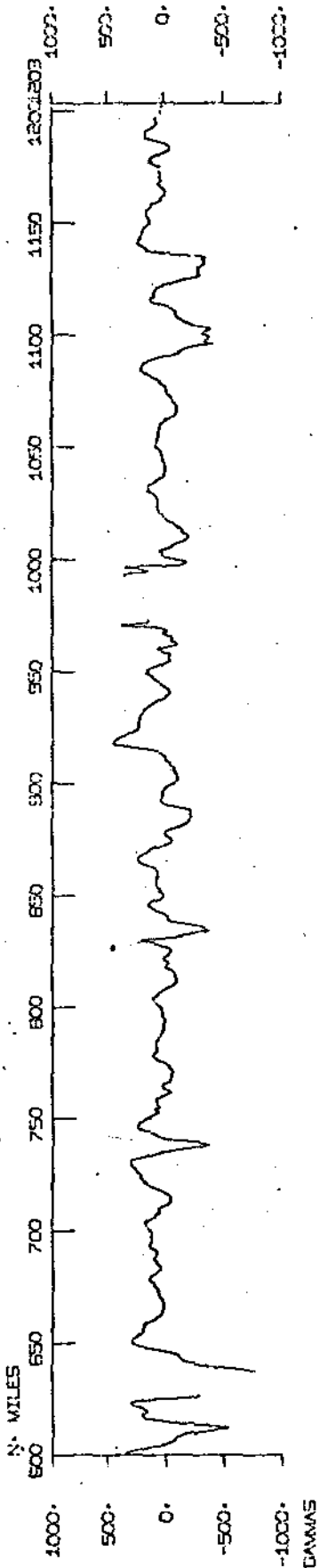


EURYDICE EXPEDITION LEG 3 - Track Plot

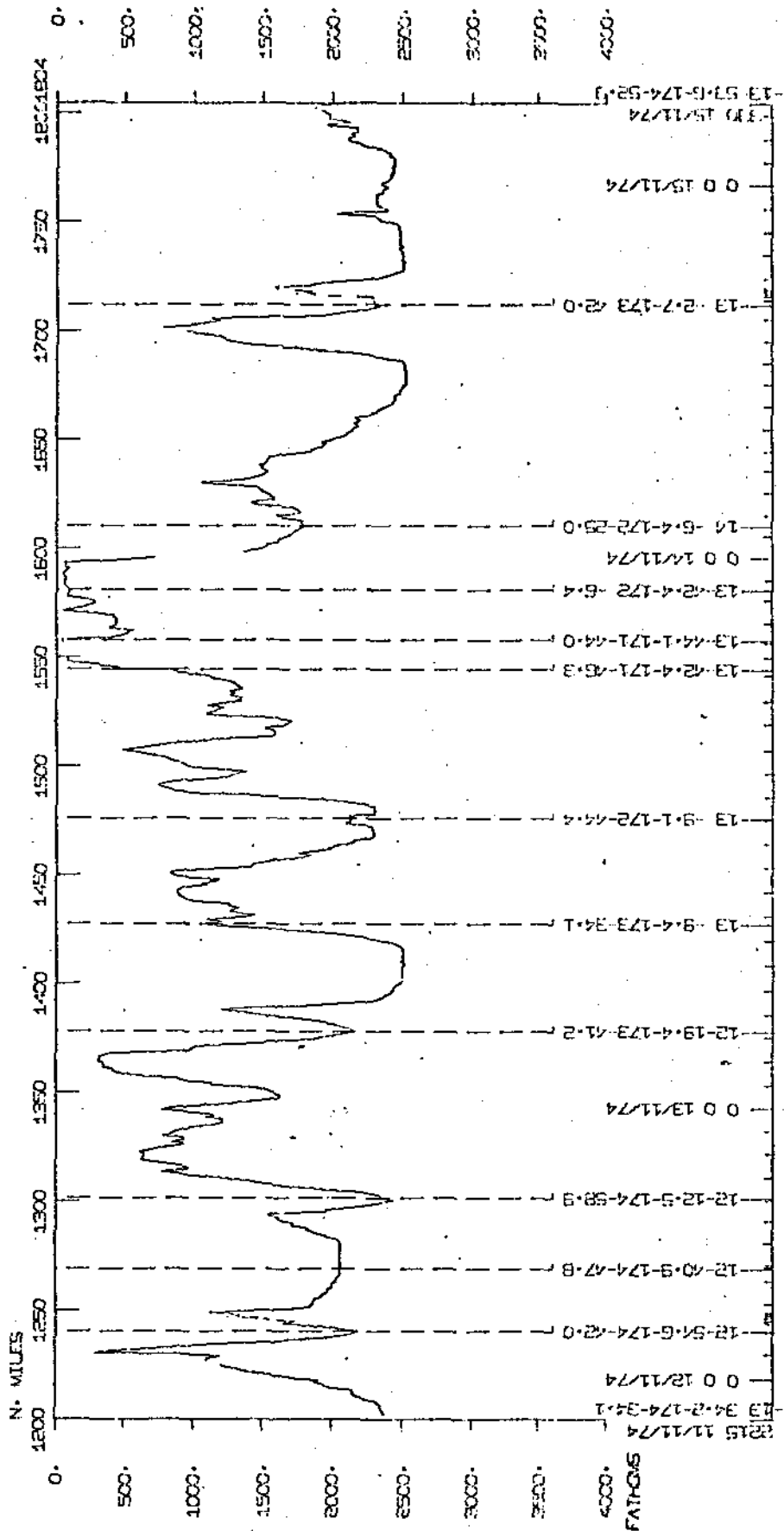
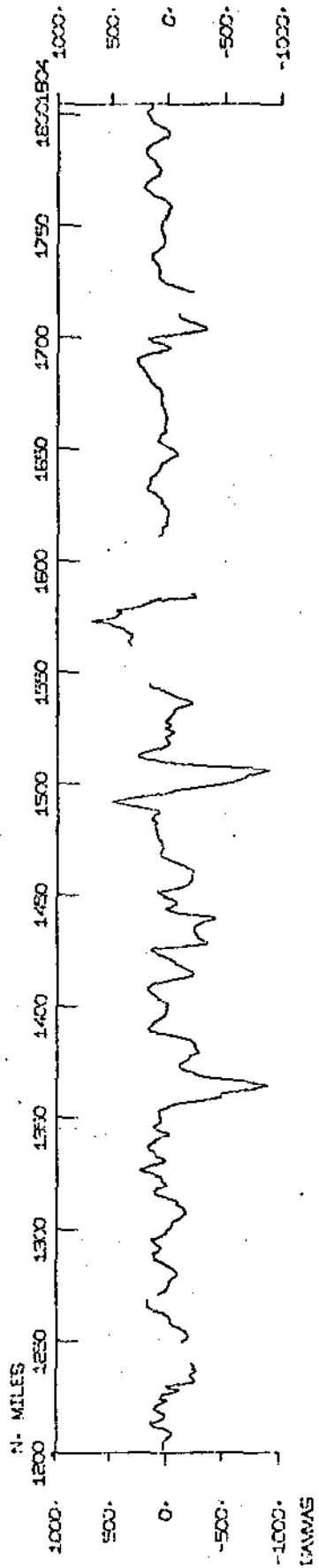
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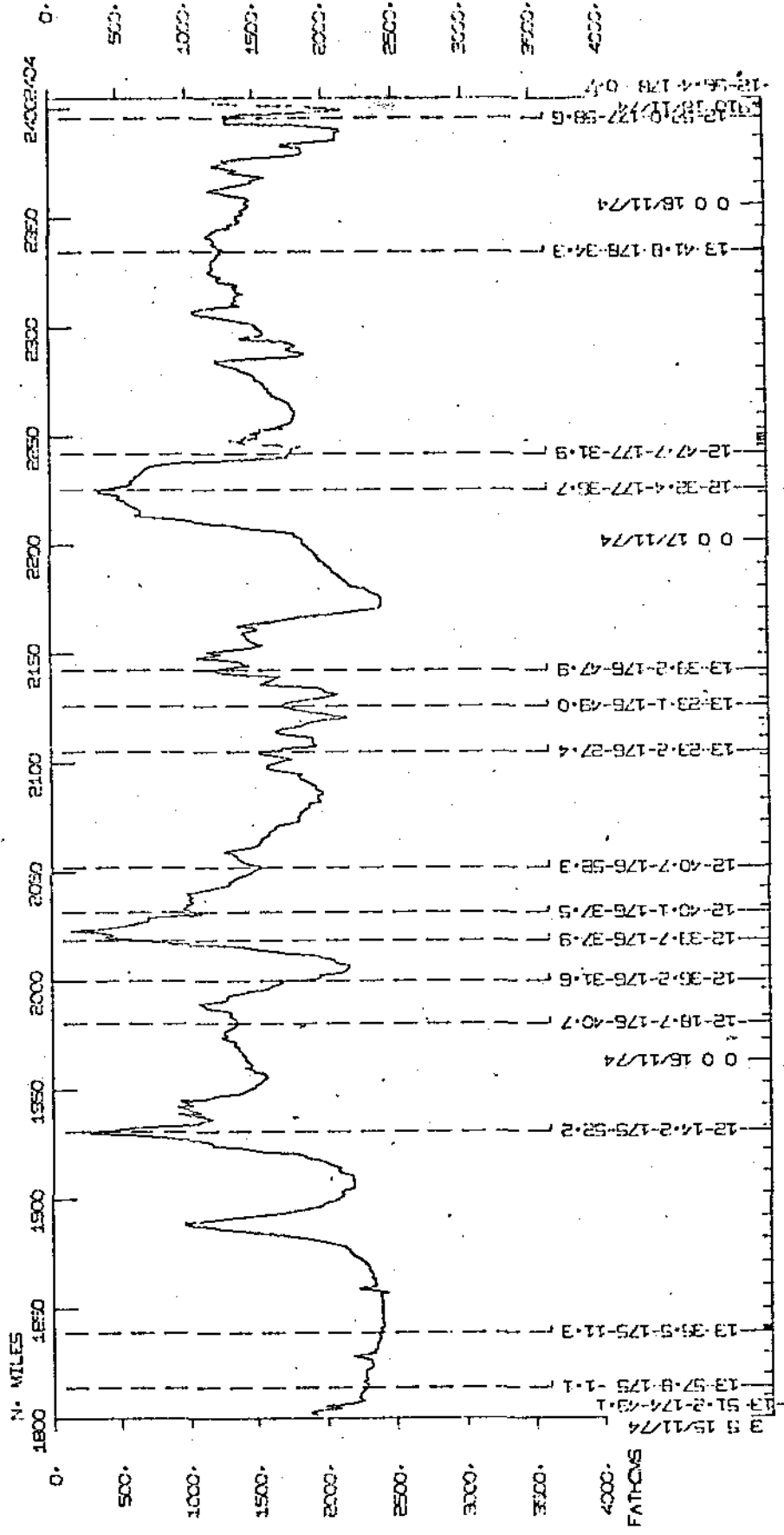
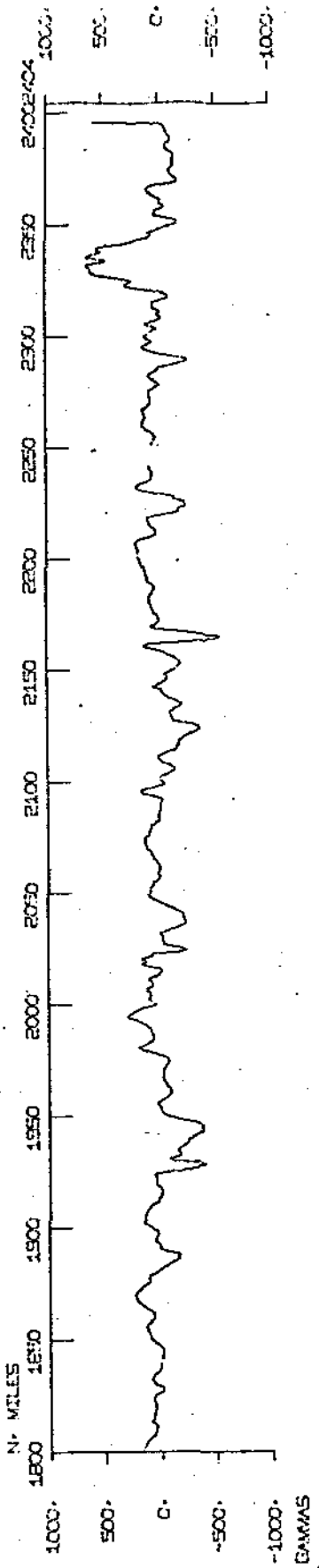
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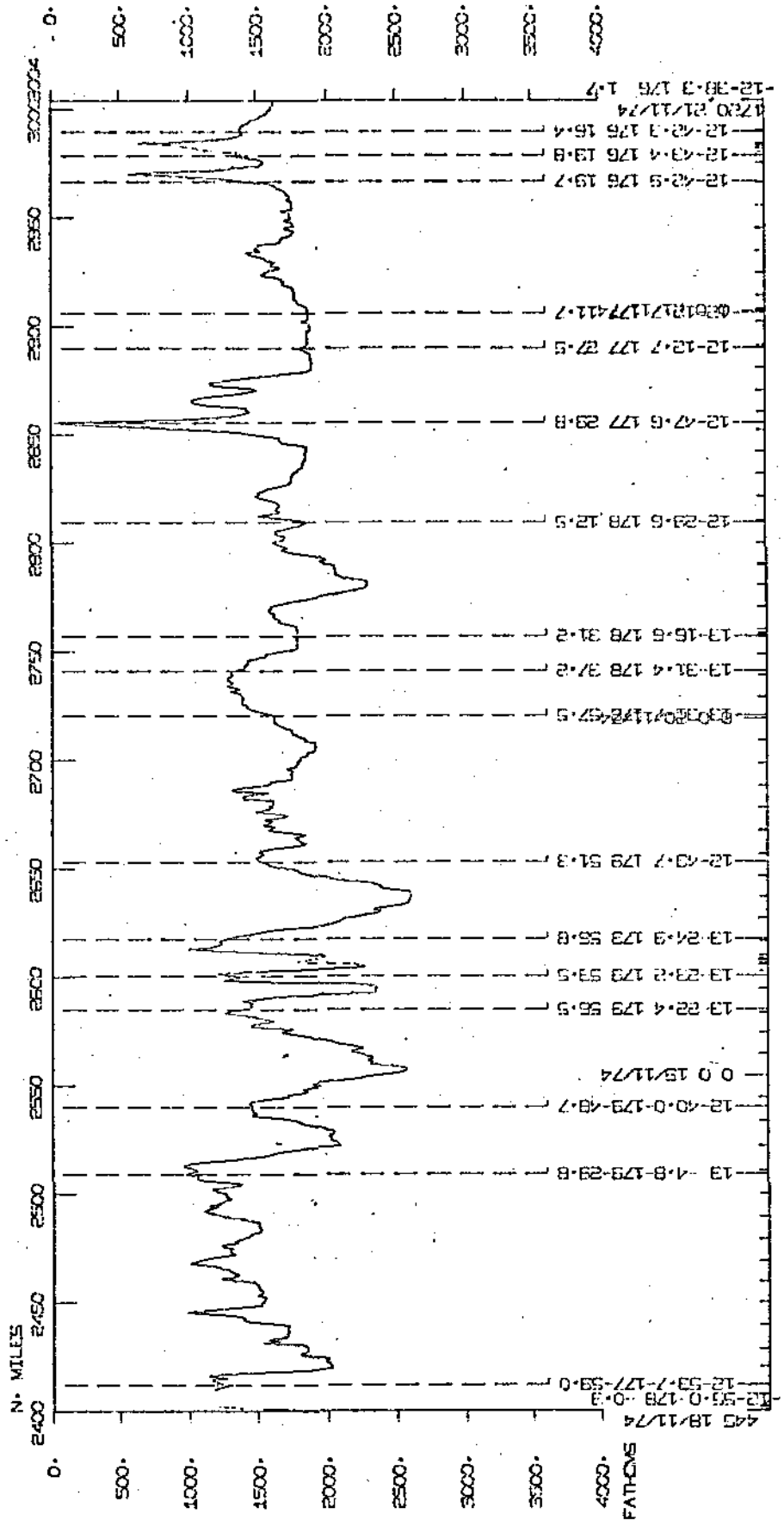
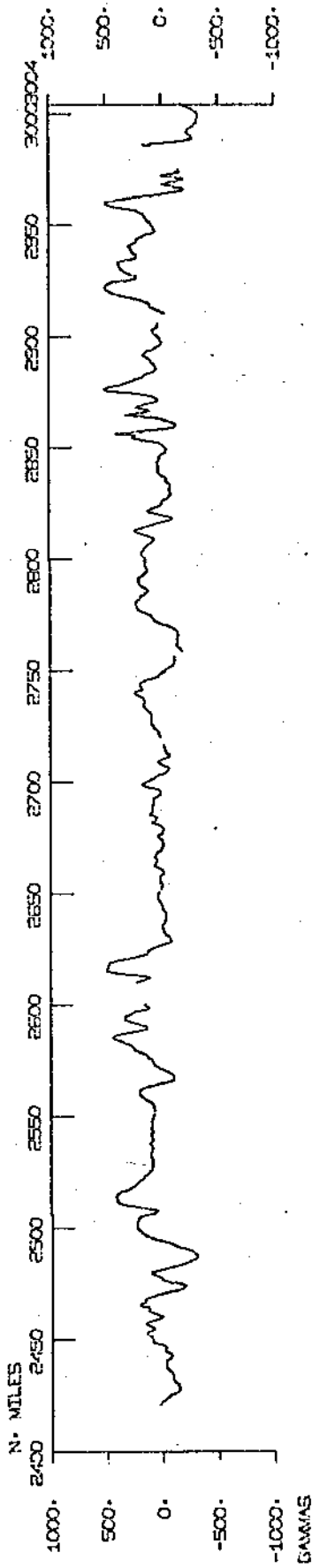
EURYDICE LEG. 3



EURYOICE LEG B

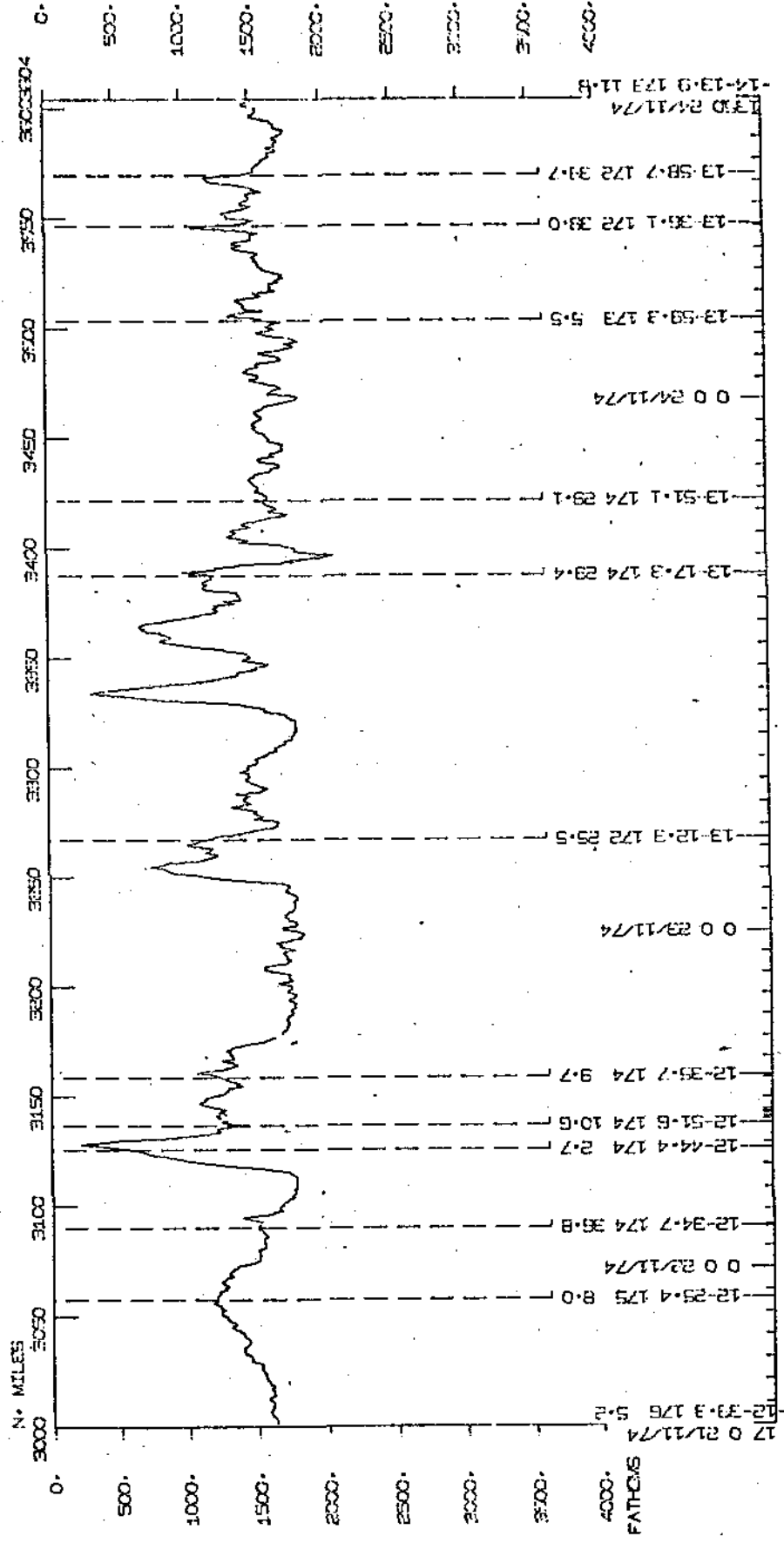
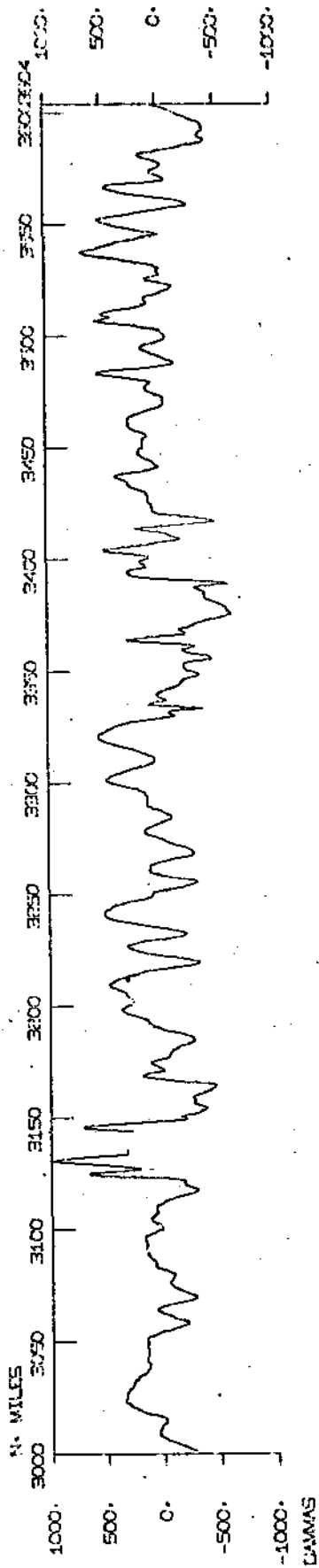


HURDYCE LEG 3

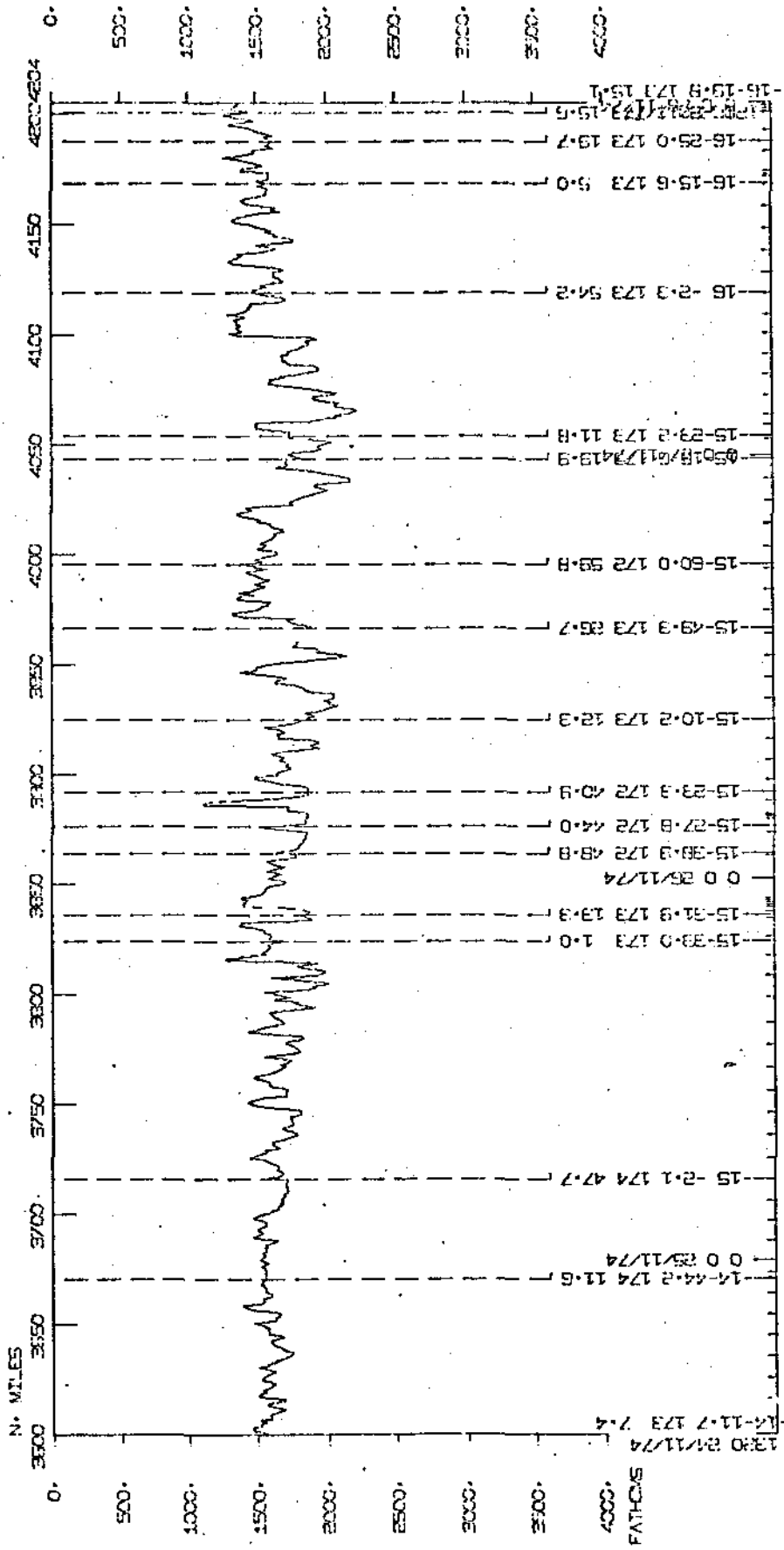
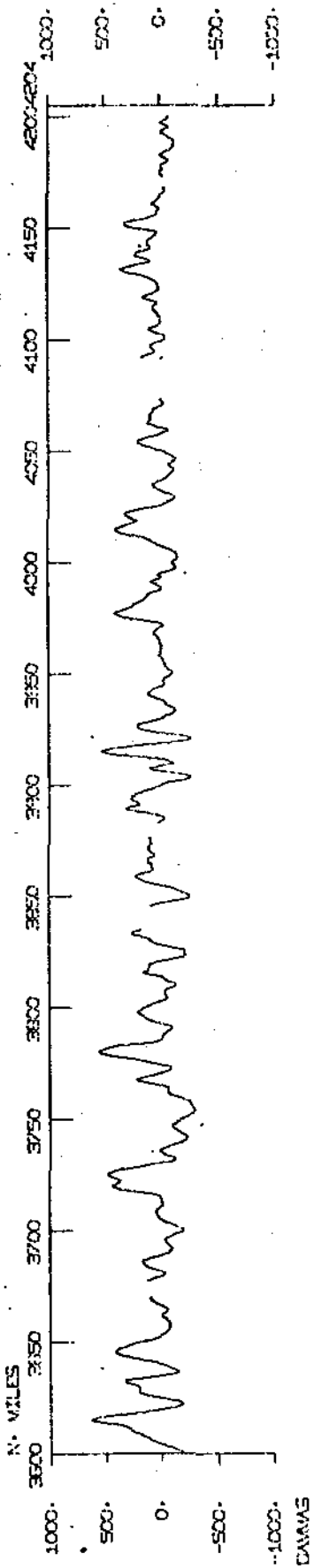


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13-23-2 179 53-5
13-24-9 179 55-8
12-43-7 179 51-3
13-08-0/178-57-5
13-31-4 178 37-2
13-16-6 178 31-2
12-29-6 178 12-5
12-47-6 177 29-8
12-12-7 177 27-5
6201R/177411-7
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12-43-4 176 19-8
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12-38-3 176 1-7

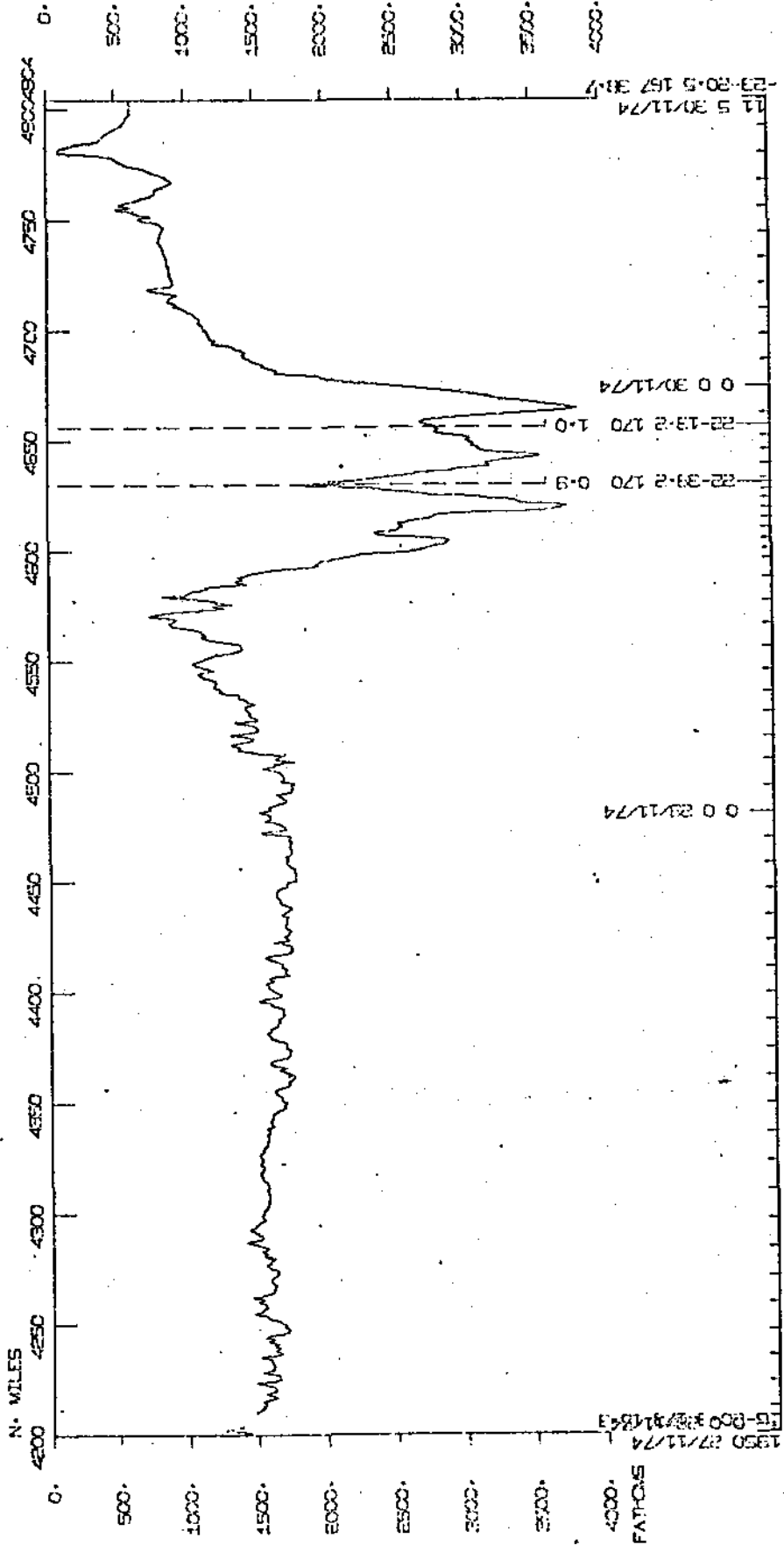
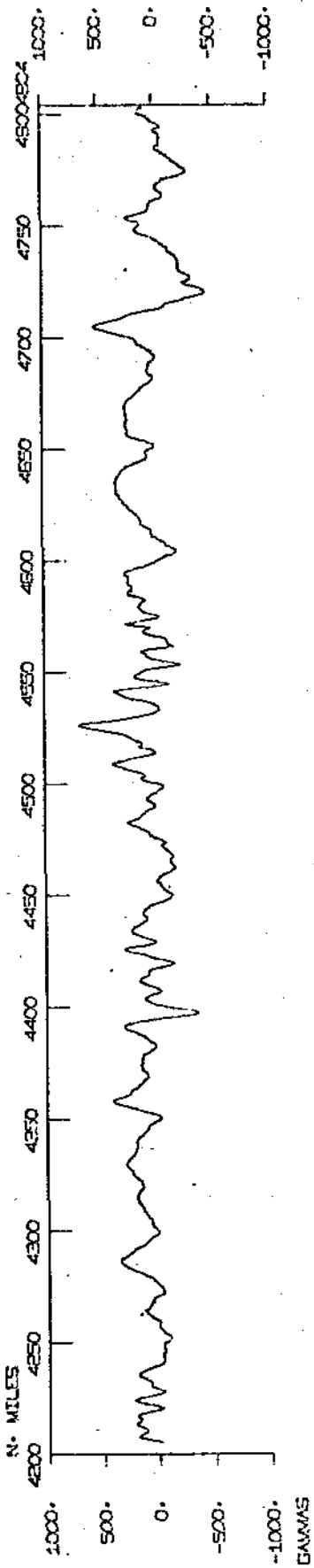
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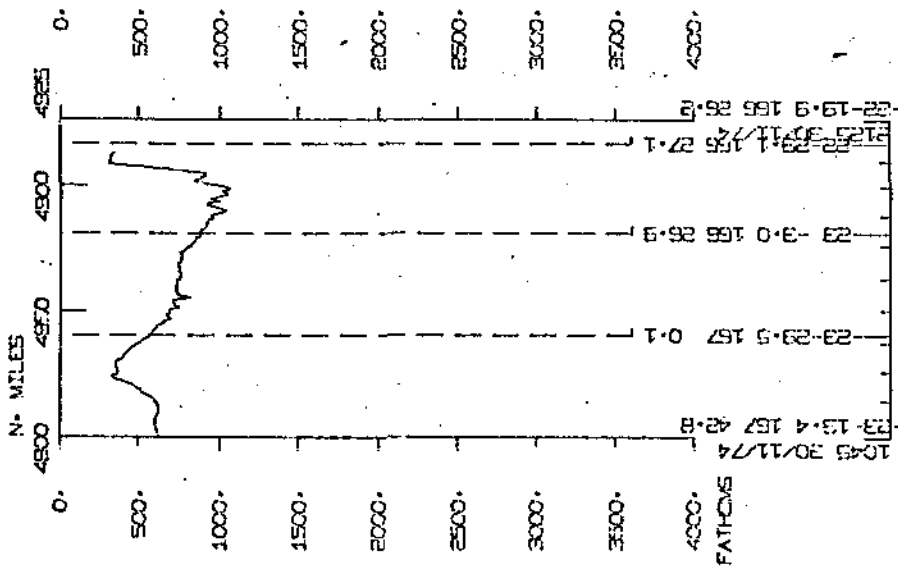
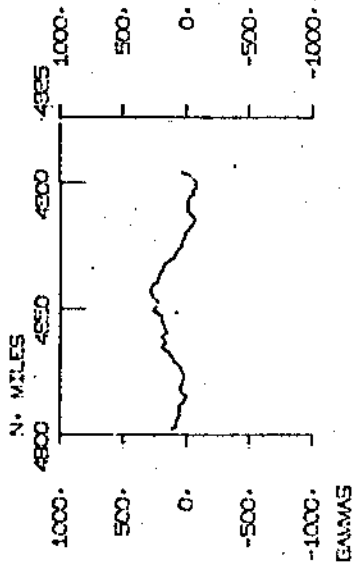
EURYDICE LEG. 3



EURDYICE LEG 3



EURYDICE LEG 3



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 23-29-5 157 0.1
 23-9-0 166 26.9
 23-29-1 156 27.1
 13-15-9 166 26.9

SAMPLE DATA INDEX

EDRYDICE EXPEDITION

LEG 03

LIST 06JAN75

2329 41174	B PAGO PAGO, AM. SAMOA	14 167S 170 409W S	ERDC03WT
2200 301174	E NOUMEA, NEW CALEDONIA	22 197S 166 261E S	ERDC03WT

PERSONNEL

PECS	HAWKINS, J.	GRD	ERDC03WT
PERT	WILSON, R.	MTG	ERDC03WT
PEAT	BATTEY, R.	SGG	ERDC03WT
PECT	MOORE, J.	SCG	ERDC03WT
PE	BATIZA, R.	SIO	ERDC03WT
PEXN	DANIELS, J.	FRN	ERDC03WT
PEXN	FUATA, KOMA	FIJ	ERDC03WT
PE	HARTZELL, S.	SIO	ERDC03WT
PE	HUNT, J.	SIO	ERDC03WT
PE	LAWVER, L.	SIO	ERDC03WT
PE	MERDINGER, C.	SIO	ERDC03WT
PR	NISHIMORI, R.	SIO	ERDC03WT

THE FOLLOWING CODES ARE NEW

FIJ=CITIZEN OF FIJI

*** NOTE *** TIME ZONES AND MINUTES OF LATITUDE AND LONGITUDE ARE LISTED
IN TENTHS (E.G. 10.6 IS LISTED AS 106)

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

UNDERWAY DATA - CURATOR T.E. CHASE 2ND FLOOR AQUARIU EXT. 2182									

*** NAVIGATION PLOTS ***									
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658	281174			NVBP B	BRIDGE PLOT 08	GDC 17	214S	172 507E	S ERDC03WT
2140	301174			NVBP E	BRIDGE PLOT 08	GDC 22	197S	166 261E	S ERDC03WT
2347	41174			NVCP B	COMPUTER DR PLOT 01	GDC 14	171S	170 408W	S ERDC03WT
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TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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2043	61174			DPR3 B	GDR 3.5KHZ-ROLL 03	GDC 14	220S	172 435W	S ERDC03WT
408	71174			DPR3 E	GDR 3.5KHZ-ROLL 03	GDC 13	490S	172 564W	S ERDC03WT
415	71174			DPR3 B	GDR 3.5KHZ-ROLL 04	GDC 13	478S	172 562W	S ERDC03WT
19	81174			DPR3 E	GDR 3.5KHZ-ROLL 04	GDC 13	190S	173 259W	S ERDC03WT
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1918	81174			DPR3 E	GDR 3.5KHZ-ROLL 05	GDC 14	413S	174 55W	S ERDC03WT
1918	81174			DPR3 B	GDR 3.5KHZ-ROLL 06	GDC 14	413S	174 55W	S ERDC03WT
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10	91174			DPR3 B	GDR 3.5KHZ-ROLL 07	GDC 14	86S	174 84W	S ERDC03WT
2135	101174			DPR3 E	GDR 3.5KHZ-ROLL 07	GDC 13	219S	176 106W	S ERDC03WT
2143	101174			DPR3 B	GDR 3.5KHZ-ROLL 08	GDC 13	224S	176 105W	S ERDC03WT
651	121174			DPR3 E	GDR 3.5KHZ-ROLL 08	GDC 12	594S	174 417W	S ERDC03WT
654	121174			DPR3 B	GDR 3.5KHZ-ROLL 09	GDC 12	594S	174 418W	S ERDC03WT
2351	131174			DPR3 E	GDR 3.5KHZ-ROLL 09	GDC 13	533S	172 148W	S ERDC03WT
2355	131174			DPR3 B	GDR 3.5KHZ-ROLL 10	GDC 13	539S	172 152W	S ERDC03WT
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717	201174			DPR3 E	GDR 3.5KHZ-ROLL 13	GDC 13	178S	178 304E	S ERDC03WT
722	201174			DPR3 B	GDR 3.5KHZ-ROLL 14	GDC 13	178S	178 304E	S ERDC03WT
115	211174			DPR3 E	GDR 3.5KHZ-ROLL 14	GDC 12	122S	177 105E	S ERDC03WT
150	211174			DPR3 B	GDR 3.5KHZ-ROLL 15	GDC 12	122S	177 107E	S ERDC03WT
1022	221174			DPR3 E	GDR 3.5KHZ-ROLL 15	GDC 12	513S	174 97E	S ERDC03WT
1033	221174			DPR3 B	GDR 3.5KHZ-ROLL 16	GDC 12	510S	174 95E	S ERDC03WT
609	241174			DPR3 E	GDR 3.5KHZ-ROLL 16	GDC 13	496S	172 517E	S ERDC03WT
617	241174			DPR3 B	GDR 3.5KHZ-ROLL 17	GDC 13	487S	172 508E	S ERDC03WT
300	261174			DPR3 E	GDR 3.5KHZ-ROLL 17	GDC 15	303S	172 451E	S ERDC03WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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58	281174			DPR3 E	GDR 3.5KHZ-ROLL 19	GDC 16	190S	173 155E S	ERDC03WT
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2145	291174			DPR3 B	GDR 3.5KHZ-ROLL 21	GDC 22	196S	170 9E S	ERDC03WT
2226	291174			DPR3 E	GDR 3.5KHZ-ROLL 21	GDC 22	137S	170 11E S	ERDC03WT
2235	291174			DPR3 B	GDR 3.5KHZ-ROLL 22	GDC 22	134S	170 3E S	ERDC03WT
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700	51174			DPRT E	UGR 12KHZ-ROLL 01	GDC 14	560S	170 344W S	ERDC03WT
730	51174			DPRT B	UGR 12KHZ-ROLL 02	GDC 14	509S	170 383W S	ERDC03WT
950	111174			DPRT E	UGR 12KHZ-ROLL 02	GDC 14	396S	174 456W S	ERDC03WT
1030	111174			DPRT B	UGR 12KHZ-ROLL 03	GDC 14	396S	174 381W S	FRDC03WT
1542	161174			DPRT E	UGR 12KHZ-ROLL 03	GDC 13	230S	176 402W S	ERDC03WT
1625	161174			DPRT B	UGR 12KHZ-ROLL 04	GDC 13	229S	176 466W S	ERDC03WT
143	221174			DPRT E	UGR 12KHZ-ROLL 04	GDC 12	342S	174 383E S	ERDC03WT
221	221174			DPRT B	UGR 12KHZ-ROLL 05	GDC 12	347S	174 368E S	ERDC03WT
2020	261174			DPRT E	UGR 12KHZ-ROLL 05	GDC 15	498S	173 47E S	ERDC03WT
2256	261174			DPRT B	UGR 12KHZ-ROLL 06	GDC 15	252S	173 163E S	FRDC03WT
2025	301174			DPRT E	UGR 12KHZ-ROLL 06	GDC 22	306S	166 251E S	ERDC03WT

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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MAGNETOMETER

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2029	201174		MGR	E MAGNETICS-ROLL 01	GDC 12	171S	177 279E	S ERDC03WT
2038	201174		MGR	B MAGNETICS-ROLL 02	GDC 12	155S	177 277E	S ERDC03WT
1927	301174		MGR	E MAGNETICS-ROLL 02	GDC 22	389S	166 258E	S ERDC03WT

SEISMIC REFRACTION

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2159	101174		SPRS	B AIRGUN-RS-ROLL 02	GDC 13	233S	176 102W	S ERDC03WT
1927	301174		SPRS	E AIRGUN-RS-ROLL 02	GDC 22	389S	166 258E	S ERDC03WT
45	51174		SPRF	B AIRGUN-RF-ROLL 01	GDC 14	236S	170 404W	S ERDC03WT
1920	91174		SPRF	E AIRGUN-RF-ROLL 01	GDC 13	254S	176 65W	S ERDC03WT
2159	101174		SPRF	B AIRGUN-RF-ROLL 02	GDC 13	233S	176 102W	S ERDC03WT
1739	111174		SPRF	E AIRGUN-RF-ROLL 02	GDC 13	570S	174 308W	S ERDC03WT
1755	111174		SPRF	B AIRGUN-RF-ROLL 03	GDC 13	543S	174 313W	S ERDC03WT
255	261174		SPRF	E AIRGUN-RF-ROLL 03	GDC 15	303S	172 451E	S ERDC03WT
726	261174		SPRF	B AIRGUN-RF-ROLL 04	GDC 15	318S	172 442E	S ERDC03WT
1927	301174		SPRF	E AIRGUN-RF-ROLL 04	GDC 22	389S	166 258E	S ERDC03WT

GRAVIMETRIC RECORDS-LEROY M. DORRAN, G.R.D., EXT. 2406

2314	41174		GVXR	B GRAVXCOUPLE ROLL 01	LMD 14	166S	170 409W	S ERDC03WT
1807	131174		GVXR	E GRAVXCOUPLE ROLL 01	LMD 13	413S	171 472W	S ERDC03WT
1830	131174		GVXR	B GRAVXCOUPLE ROLL 02	LMD 13	434S	171 461W	S ERDC03WT
617	281174		GVXR	E GRAVXCOUPLE ROLL 02	LMD 17	137S	172 537E	S ERDC03WT
235	291174		GVXR	B GRAVXCOUPLE ROLL 03	LMD 21	11S	171 81E	S ERDC03WT
2234	291174		GVXR	E GRAVXCOUPLE ROLL 03	LMD 22	134S	170 5E	S ERDC03WT
2313	41174		GVR	B GRAVITYMETER ROLL 01	LMD 14	166S	170 409W	S ERDC03WT
115	111174		GVR	E GRAVITYMETER ROLL 01	LMD 13	441S	175 530W	S ERDC03WT
130	111174		GVR	B GRAVITYMETER ROLL 02	LMD 13	457S	175 514W	S ERDC03WT
30	181174		GVR	E GRAVITYMETER ROLL 02	LMD 13	203S	178 191W	S ERDC03WT
110	181174		GVR	B GRAVITYMETER ROLL 03	LMD 13	149S	178 153W	S ERDC03WT
400	251174		GVR	E GRAVITYMETER ROLL 03	LMD 14	491S	174 225E	S ERDC03WT
1400	251174		GVR	B GRAVITYMETER ROLL 04	LMD ¹⁵ 12 ³¹¹ 462S	178 ⁰ 77E	S ERDC03WT	
617	281174		GVR	E GRAVITYMETER ROLL 04	LMD 17	137S	172 537E	S ERDC03WT
235	291174		GVR	B GRAVITYMETER ROLL 05	LMD 21	11S	171 81E	S ERDC03WT
2234	291174		GVR	E GRAVITYMETER ROLL 05	LMD 22	134S	170 5E	S ERDC03WT

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

GEOLOGICAL SAMPLES - CURATOR W.R. RIEDEL						EXT. 4386			

*** CORES ***

936	61174	C	G	GRAVITY	14	4903	GCR 14	316S	172	230W	S	FRDC03WT
2043	111174	C	G	GRAVITY	15	4529	GCR 13	358S	174	340W	S	ERDC03WT
1251	121174	C	G	GRAVITY	16	3846	GCR 12	406S	174	482W	S	ERDC03WT
829	151174	C	G	GRAVITY	17	4488	GCR 13	354S	175	109W	S	ERDC03WT
445	201174	C	G	GRAVITY	18	3346	GCR 13	168S	178	311E	S	FRDC03WT
2336	201174	C	G	GRAVITY	19	3487	GCR 12	124S	177	110E	S	ERDC03WT
340	261174	C	G	GRAVITY	20	3453	GCR 15	307S	172	452E	S	ERDC03WT

*** DREDGE ***

1058	51174	D	R	B	DREDGE	08	3120	GCR 14	475S	170	418W	S	ERDC03WT
1250	51174	D	R	E	DREDGE	08	2648	GCR 14	476S	170	420W	S	FRDC03WT
609	81174	D	R	B	DREDGE	09	2988	GCR 13	70S	173	229W	S	FRDC03WT
736	81174	D	R	E	DREDGE	09	2443	GCR 13	78S	173	234W	S	ERDC03WT
532	121174	D	R	B	DREDGE	10	3101	GCR 12	588S	174	419W	S	ERDC03WT
803	121174	D	R	E	DREDGE	10	2388	GCR 12	600S	174	425W	S	FRDC03WT
1528	141174	D	R	B	DREDGE	11	4295	GCR 13	49S	173	403W	S	FRDC03WT
1802	141174	D	R	E	DREDGE	11	2669	GCR 13	74S	173	397W	S	ERDC03WT
545	171174	D	R	B	DREDGE	12	3365	GCR 12	459S	177	320W	S	FRDC03WT
1203	171174	D	R	E	DREDGE	12	WIRE BREAK	12	458S	177	319W	S	ERDC03WT
653	181174	D	R	B	DREDGE	13	3668	GCR 12	546S	178	5W	S	FRDC03WT
748	181174	D	R	E	DREDGE	13	2536	GCR 12	549S	178	4W	S	ERDC03WT
730	191174	D	R	B	DREDGE	14	4257	GCR 13	245S	179	501E	S	ERDC03WT
1128	191174	D	R	E	DREDGE	14	3498	GCR 13	248S	179	503E	S	ERDC03WT
1111	211174	D	R	B	DREDGE	15	2387	GCR 12	434S	176	188E	S	FRDC03WT
1357	211174	D	R	E	DREDGE	15	1641	GCR 12	462S	176	177E	S	FRDC03WT
1048	221174	D	R	B	DREDGE	16	2350	GCR 12	507S	174	92E	S	ERDC03WT
1409	221174	D	R	E	DREDGE	16	2313	GCR 12	508S	174	97E	S	ERDC03WT
1747	251174	D	R	B	DREDGE	17	3432	GCR 15	320S	173	125E	S	ERDC03WT
2135	251174	D	R	E	DREDGE	17	2649	GCR 15	332S	173	97E	S	ERDC03WT
2108	271174	D	R	B	DREDGE	18	2596	GCR 16	209S	173	151E	S	ERDC03WT
2348	271174	D	R	E	DREDGE	18	2475	GCR 16	196S	173	152E	S	ERDC03WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** HEAT FLOW ***									
2105	51174			HF2M	HEATFLOW 01 4395	HFP 15	8S	171 346W	S ERDC03WT
1211	61174			HF2M	HEATFLOW 02 4903	HFP 14	316S	172 232W	S ERDC03WT
1518	121174			HF2M	HEATFLOW 03 3850	HFP 12	405S	174 478W	S FRDC03WT
630	201174			HF2M	HEATFLOW 04 3348	HFP 13	175S	178 306E	S ERDC03WT
115	211174			HF2M	HEATFLOW 05 3488	HFP 12	122S	177 105E	S ERDC03WT
255	221174			HF2M	HEATFLOW 06 2788	HFP 12	344S	174 369E	S ERDC03WT
2145	241174			HF2M	HEATFLOW 07 2908	HFP 14	439S	174 112E	S FRDC03WT
620	261174			HF2M	HEATFLOW 08 3464	HFP 15	318S	172 446E	S ERDC03WT
1530	271174			HF2M	HEATFLOW 09 2965	HFP 16	149S	173 80E	S ERDC03WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP	
BATHYTHERMOGRAPHS - CURATORIAL GROUP EXT. 3775										
0	61174			BTX	NO. SAMPLES = 02	BTS 15	66S	171 483W	S ERDC03WT	
0	71174			BTX	NO. SAMPLES = 01	BTS 14	282S	172 589W	S FRDC03WT	
0	81174			BTX	NO. SAMPLES = 01	BTS 13	214S	173 262W	S ERDC03WT	
0	91174			BTX	NO. SAMPLES = 01	BTS 14	101S	174 83W	S FRDC03WT	
0	101174			BTX	NO. SAMPLES = 01	BTS 13	182S	176 99W	S ERDC03WT	
0	111174			BTX	NO. SAMPLES = 01	BTS 13	364S	176 3W	S FRDC03WT	
0	121174			BTX	NO. SAMPLES = 01	BTS 13	158S	174 377W	S FRDC03WT	
0	131174			BTX	NO. SAMPLES = 01	BTS 12	173S	174 167W	S ERDC03WT	
0	141174			BTX	NO. SAMPLES = 02	BTS 13	546S	172 157W	S FRDC03WT	
0	141174			BTX	NO. SAMPLES = 02	BTS 13	546S	172 157W	S FRDC03WT	
0	161174			BTX	NO. SAMPLES = 02	BTS 12	181S	176 241W	S ERDC03WT	
0	181174			BTX	NO. SAMPLES = 02	BTS 13	243S	178 220W	S ERDC03WT	
0	191174			BTX	NO. SAMPLES = 02	BTS 12	540S	179 529W	S ERDC03WT	
0	201174			BTX	NO. SAMPLES = 02	BTS 13	311S	178 590E	S ERDC03WT	
0	211174			BTX	NO. SAMPLES = 02	BTS 12	123S	177 108E	S FRDC03WT	
0	221174			BTX	NO. SAMPLES = 01	BTS 12	294S	174 548E	S FRDC03WT	
0	231174			BTX	NO. SAMPLES = 02	BTS 12	587S	173 60E	S ERDC03WT	
0	241174			BTX	NO. SAMPLES = 02	BTS 13	558S	173 426E	S ERDC03WT	
0	251174			BTX	NO. SAMPLES = 02	BTS 14	446S	174 140E	S FRDC03WT	
0	261174			BTX	NO. SAMPLES = 02	BTS 15	357S	172 597E	S FRDC03WT	
0	271174			BTX	NO. SAMPLES = 02	BTS 15	173S	173 188E	S ERDC03WT	
0	271174			BTX	NO. SAMPLES = 02	BTS 15	173S	173 188E	S FRDC03WT	
0	281174			BTX	NO. SAMPLES = 02	BTS 16	197S	173 153E	S FRDC03WT	
0	291174			BTX	NO. SAMPLES = 02	BTS 20	335S	171 207E	S FRDC03WT	
0	301174			BTX	NO. SAMPLES = 02	BTS 22	215S	169 445E	S ERDC03WT	
					END SAMPLE INDEX					