

INDOPAC EXPEDITION

LEG 7

R/V THOMAS WASHINGTON

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

SUBIC BAY, PHILIPPINES (14 August 1976)

to

DARWIN, AUSTRALIA (29 August 1976)

Chief Scientist - E. Silver

Resident Marine Tech - J. Coatsworth

Post-Cruise Processing by - S. Smith,

R. Lingley, G. Psaropulos

Prepared By

Underway Data Processing Group

S.I.O. Geological Data Center

Scripps Institution of Oceanography

La Jolla, California

October 27, 1976

Normal 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 S. M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093 Phone: (714) 452-2752.

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). Phone: (714) 452-2752

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.

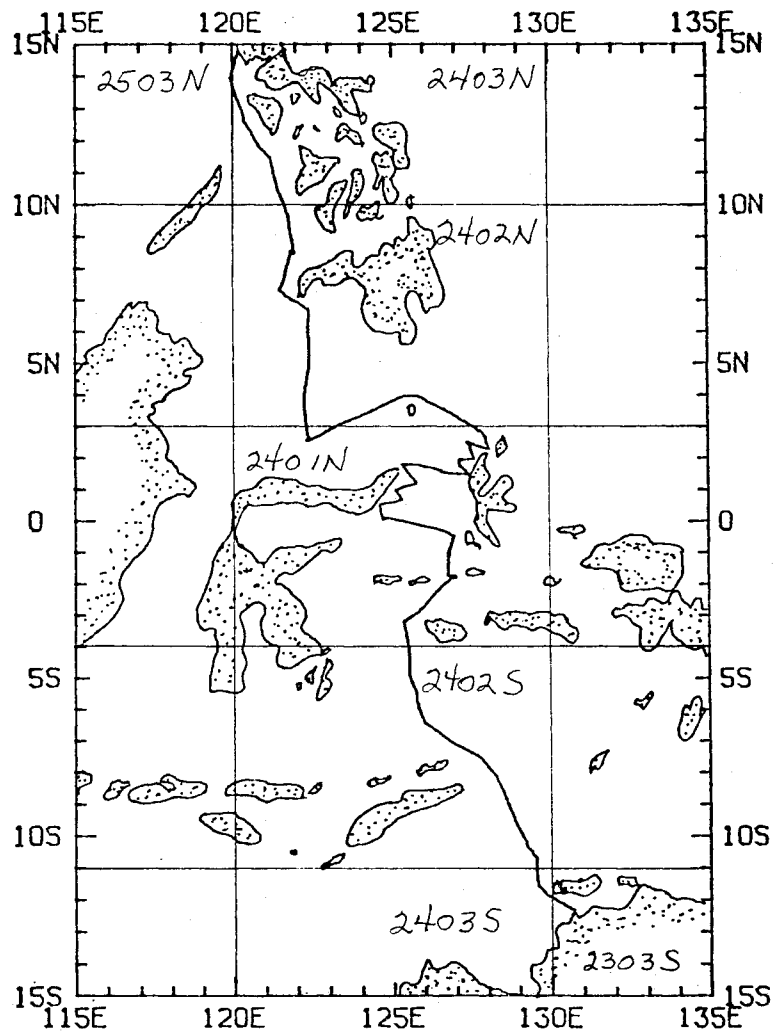
6. Microfilm or Xerox copies of:

- a. Echosounder records - 12 and 3.5 kHz frequency

- b. Subbottom profiler records (airgun)

- c. Magnetometer records

- d. Underway Data Log



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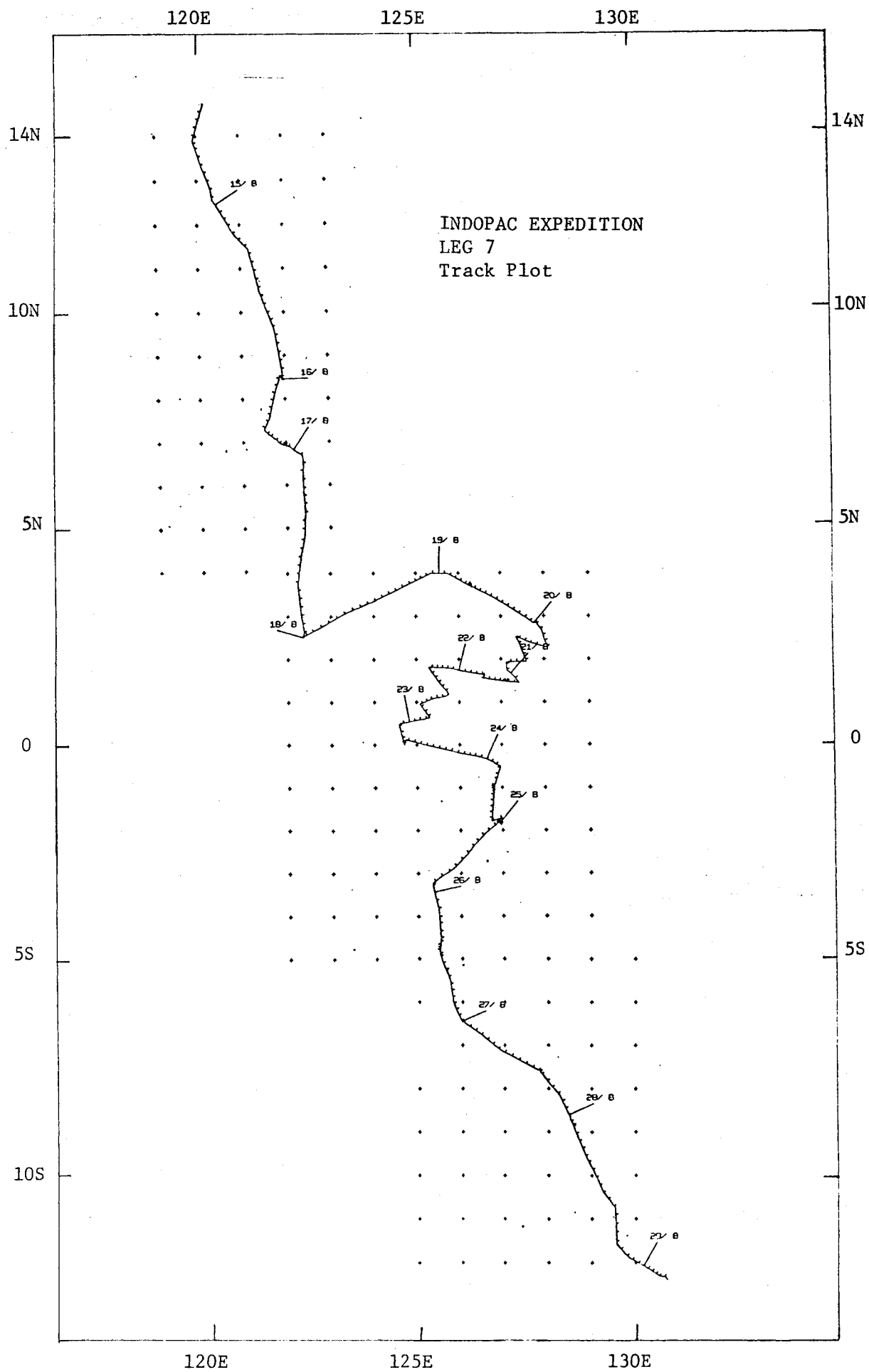
Chief Scientist - Eli Silver (Univ. of Calif. Santa Cruz)

Ports: Subic Bay, Philippines - Darwin, Australia

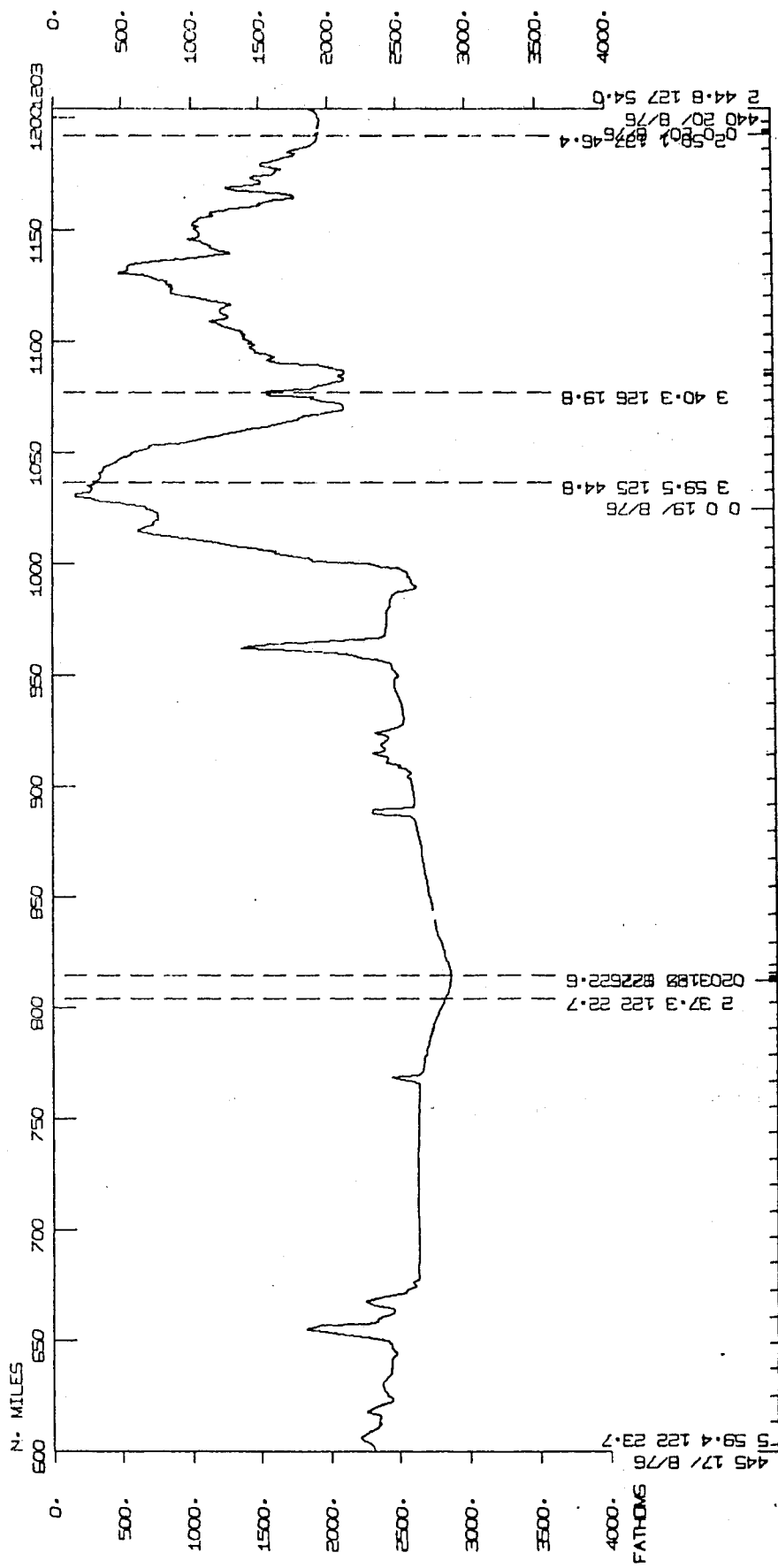
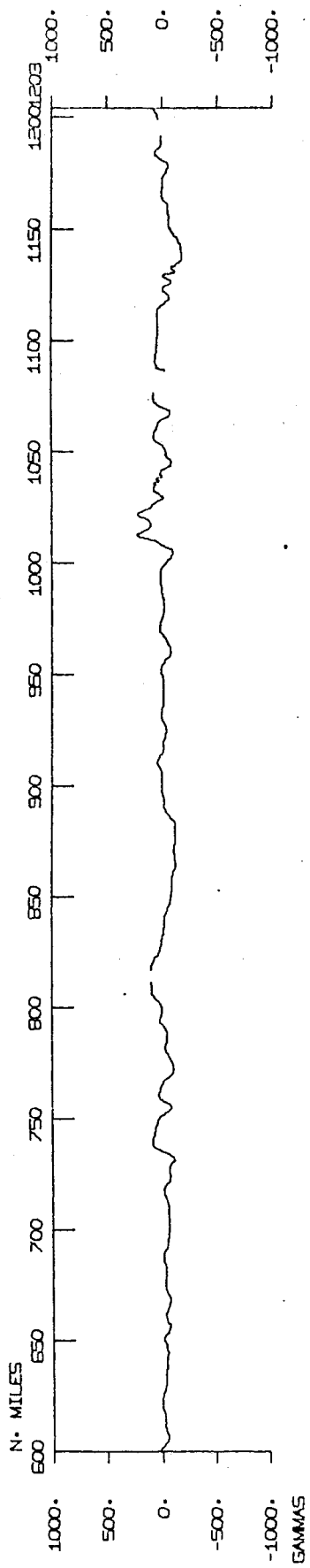
Dates: 14 August - 29 August 1976

TOTAL MILEAGE

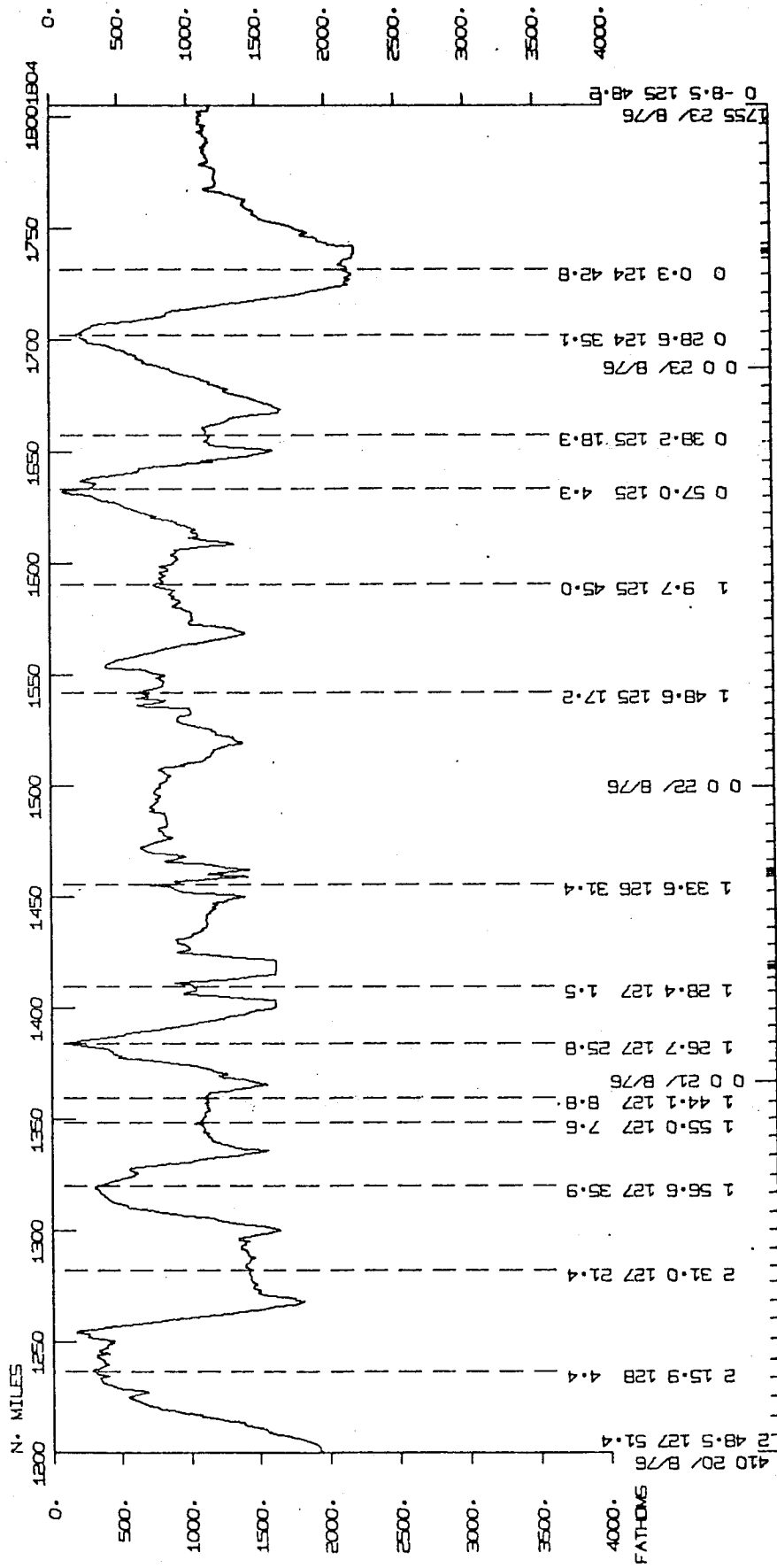
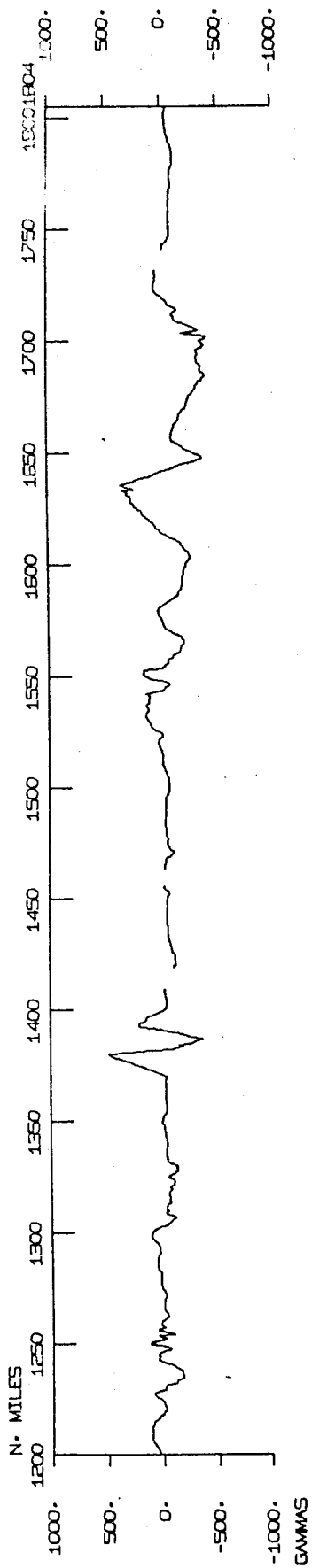
- 1) Cruise - 2863 miles
- 2) Bathymetry - 2808 miles
- 3) Magnetics - 2568 miles
- 4) Seismic Reflection - 2323 miles



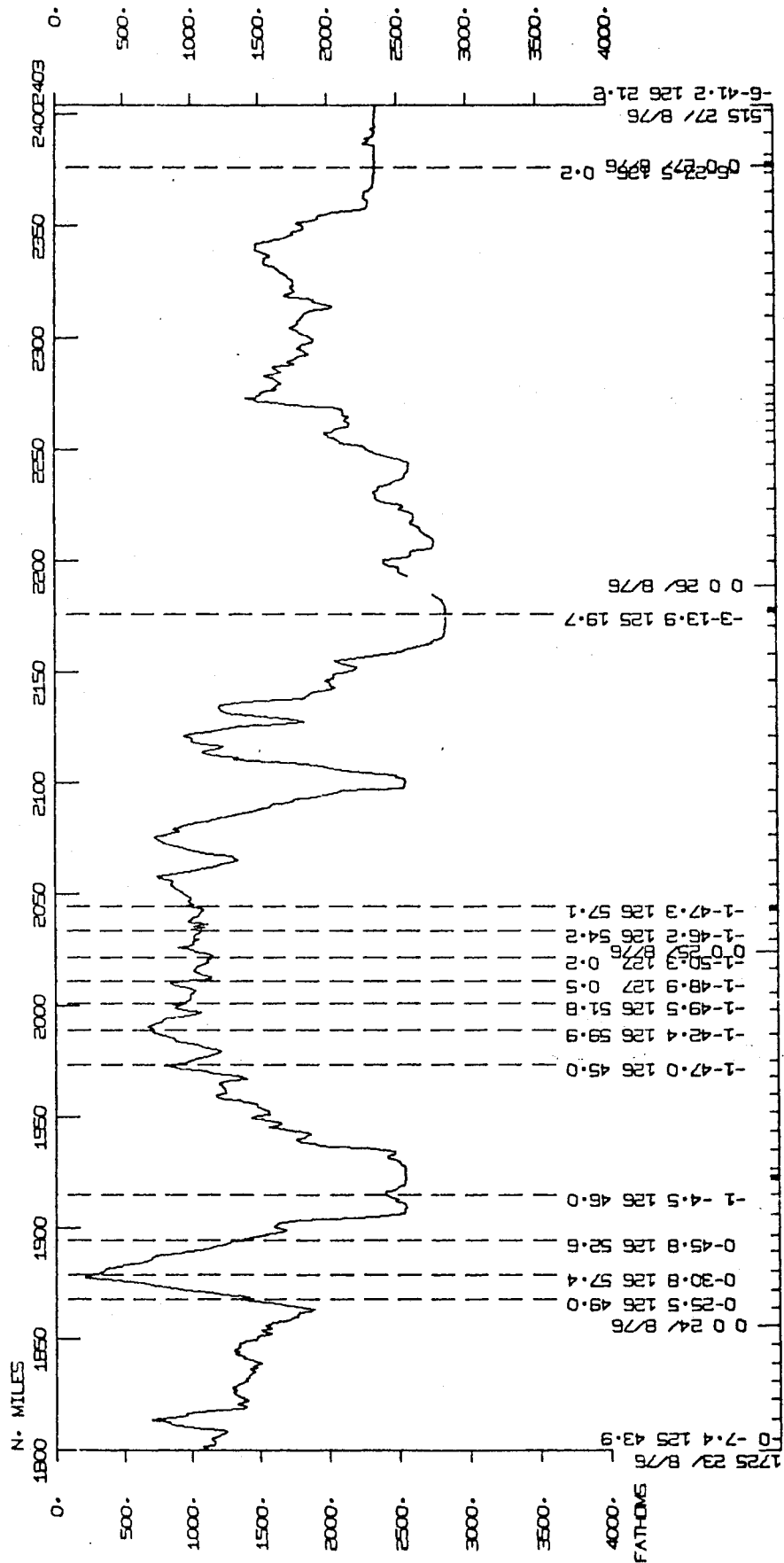
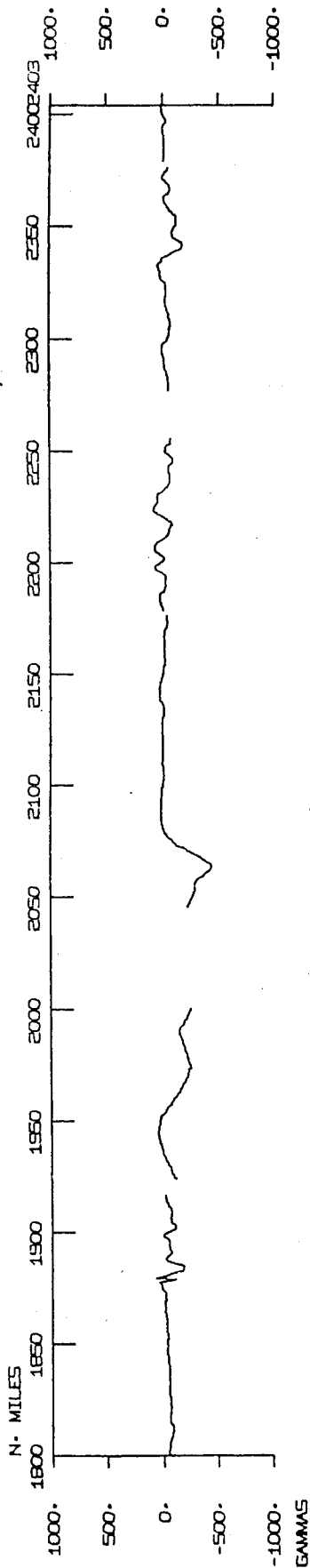
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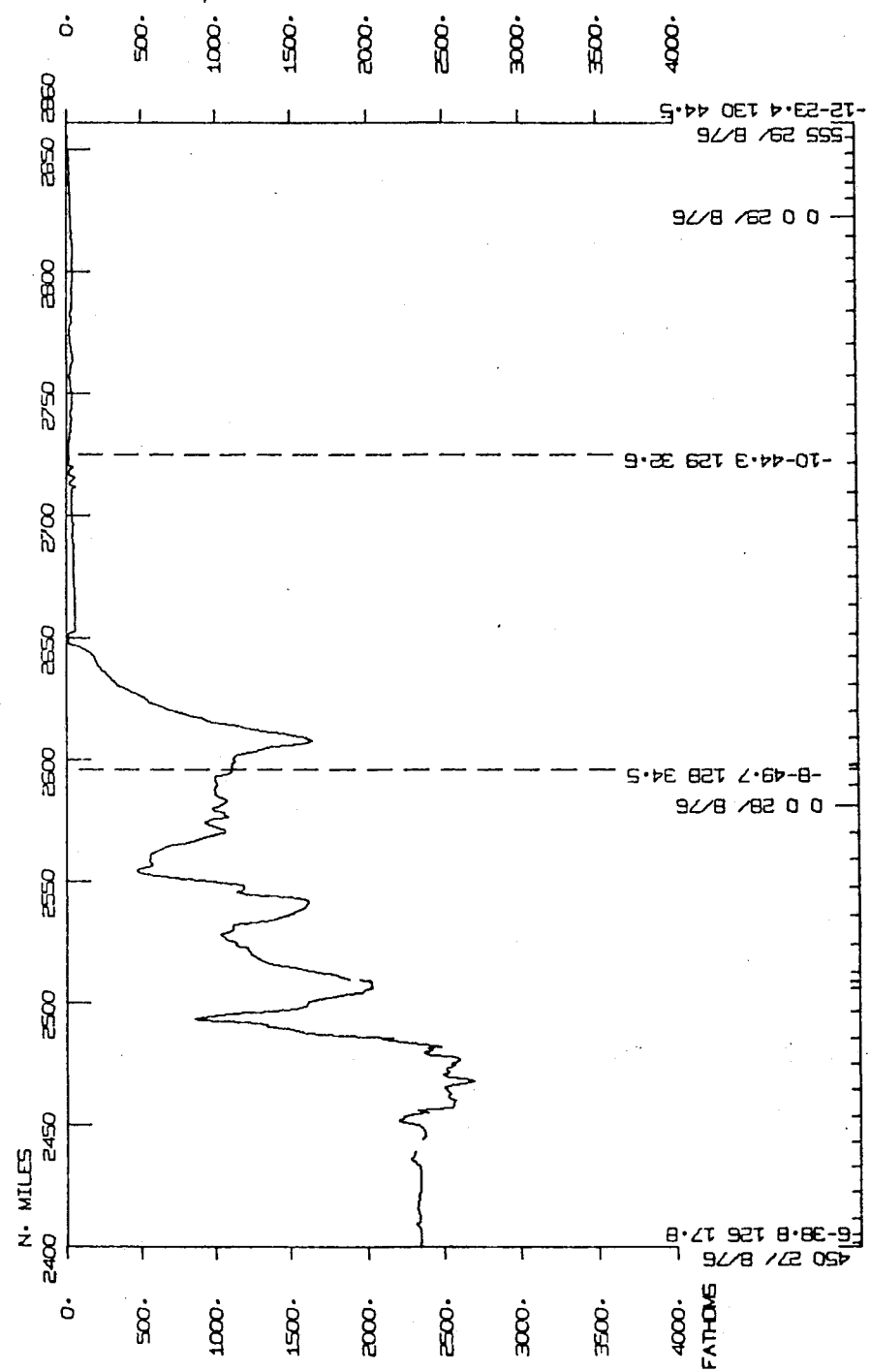
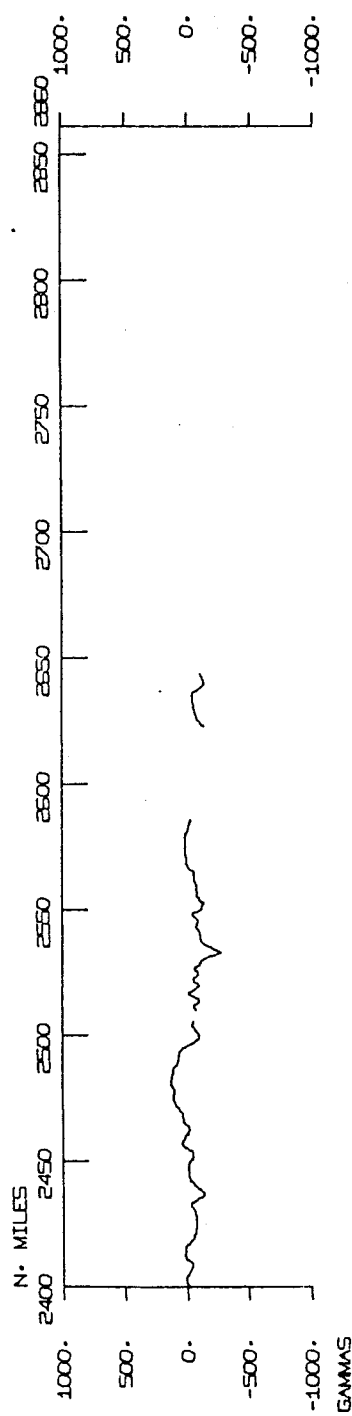
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INDOPAC LEG 7



INDUPAC EXPEDITION LEG 7 SAMPLE INDEX

PORTS

1200 14 876	LGPT B SUBIC BAY, PHIL	14 428N 120 120E F INDP07WT
511 29 876	LGPT E DARWIN, AUSTR.	12 230S 130 440E F INDP07WT

PERSONNEL

PECS	SILVER, E.	UCC	INDP07WT
PERT	COATSWORTH, J.	MTG	INDP07WT
PECT	MOE, K.	MTG	INDP07WT
PEAT	BATTEY, R.	MTG	INDP07WT
PES	CHAO, B.	SIO	INDP07WT
PE	COSTELLO, J.	DCP	INDP07WT
PE	FERREIRA, S.	DCP	INDP07WT
PEXN	GALERA, L.V.	SIX	INDP07WT
PEXN	GOLDING, T.	AUA	INDP07WT
PES	JACOBSON, K.	SIO	INDP07WT
PEXN	JODYODIWIRYO, Y.	SIX	INDP07WT
PEXN	KARTA, K.	SIX	INDP07WT
PE	MCGOWAN, D.	MPL	INDP07WT
PE	MOORE, C.	UCC	INDP07WT
PEXN	MORETON, D.	AUA	INDP07WT
PE	MUUS, D.	DCP	INDP07WT
PE	O'NEILL, P.	MPL	INDP07WT
PE	PATZERT, W.	SIO	INDP07WT
PEXN	UTOMO, D.	SIX	INDP07WT

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

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

UNDERWAY DATA - CURATOR S.M. SMITH (EXT.2752)

*** LOG BOOKS ***

1200 14 876	LBWU B UNDERWAY LOG	GDC 14 332N 120 78E S INDP07WT
510 29 876	LBWU E UNDERWAY LOG	GDC 12 194S 130 412E S INDP07WT

*** NAVIGATION PLOTS ***

14 8761806 -80 NVBP B BRIDGE PLOT 01	GDC 14 450N 120 118E S INDP07WT
16 876 0 -80 NVBP E BRIDGE PLOT 01	GDC 9 407N 121 453E S INDP07WT
16 876 20 -80 NVBP B BRIDGE PLOT 02	GDC 9 370N 121 466E S INDP07WT
17 8762346 -80 NVBP E BRIDGE PLOT 02	GDC 3 517N 122 151E S INDP07WT
17 8762346 -80 NVBP B BRIDGE PLOT 03	GDC 3 517N 122 151E S INDP07WT
26 8761200 -80 NVBP E BRIDGE PLOT 03	GDC 4 89S 125 297E S INDP07WT
26 8761200 -80 NVBP B BRIDGE PLOT 04	GDC 4 89S 125 297E S INDP07WT
29 8761440 -95 NVBP E BRIDGE PLOT 04	GDC 12 194S 130 412E S INDP07WT

1639 16 876	NVCP B COMPUTER PLOT 01	GDC 7 93N 121 388E S INDP07WT
1300 23 876	NVCP E COMPUTER PLOT 01	GDC 0 18N 125 53E S INDP07WT
1000 19 876	NVCP B COMPUTER PLOT 02	GDC 3 448N 126 145E S INDP07WT
1900 24 876	NVCP E COMPUTER PLOT 02	GDC 1 465S 126 465E S INDP07WT
1900 24 876	NVCP B COMPUTER PLOT 03	GDC 1 465S 126 465E S INDP07WT
850 27 876	NVCP E COMPUTER PLOT 03	GDC 7 36S 126 511E S INDP07WT
850 27 876	NVCP B COMPUTER PLOT 04	GDC 7 36S 126 511E S INDP07WT
748 29 876	NVCP E COMPUTER PLOT 04	GDC 12 236S 130 447E S INDP07WT

*** FATHOGRAMS ***

2334 15 876	DPRT B GDR 12KHZ R-01	GDC 8 271N 121 561E S INDP07WT
1612 16 876	DPRT E GDR 12KHZ R-01	GDC 7 114N 121 361E S INDP07WT
705 18 876	DPRT B GDR 12KHZ R-02	GDC 2 456N 122 483E S INDP07WT
115 20 876	DPRT E GDR 12KHZ R-02	GDC 2 504N 127 478E S INDP07WT
119 20 876	DPRT B GDR 12KHZ R-03	GDC 2 504N 127 479E S INDP07WT
250 22 876	DPRT E GDR 12KHZ R-03	GDC 1 480N 125 376E S INDP07WT
256 22 876	DPRT B GDR 12KHZ R-04	GDC 1 481N 125 369E S INDP07WT
2307 23 876	DPRT E GDR 12KHZ R-04	GDC 0 181S 126 310E S INDP07WT

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TIME GMT	DATE D.M.Y.	TIME TZ LOC LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LFG-SHIP
0310	23	876	DPRT B	GDR 12KHZ R-05	GDC	0 182S	126 314E	S INDP07WT
1027	26	876	DPRT E	GDR 12KHZ R-05	GDC	4 489S	125 301E	S INDP07WT
1030	26	876	DPRT B	GDR 12KHZ R-06	GDC	4 491S	125 301E	S INDP07WT
200	28	876	DPRT E	GDR 12KHZ R-06	GDC	8 497S	128 346E	S INDP07WT
743	28	876	DPRT B	GDR 12KHZ R-07	GDC	9 294S	128 511E	S INDP07WT
511	29	876	DPRT E	GDR 12KHZ R-07	GDC	12 195S	130 412E	S INDP07WT
1135	14	876	DPR3 B	GDR 3.5KHZ R-01	GDC	14 376N	120 93E	S INDP07WT
1535	16	876	DPR3 E	GDR 3.5KHZ R-01	GDC	7 158N	121 316E	S INDP07WT
1640	16	876	DPR3 B	GDR 3.5KHZ R-02	GDC	7 92N	121 389E	S INDP07WT
627	19	876	DPR3 E	GDR 3.5KHZ R-02	GDC	3 401N	126 199E	S INDP07WT
800	19	876	DPR3 B	GDR 3.5KHZ R-03	GDC	3 453N	126 147E	S INDP07WT
421	22	876	DPR3 E	GDR 3.5KHZ R-03	GDC	1 484N	125 270E	S INDP07WT
429	22	876	DPR3 B	GDR 3.5KHZ R-04	GDC	1 484N	125 260E	S INDP07WT
107	25	876	DPR3 E	GDR 3.5KHZ R-04	GDC	1 477S	126 559E	S INDP07WT
114	25	876	DPR3 B	GDR 3.5KHZ R-05	GDC	1 469S	126 549E	S INDP07WT
1203	27	876	DPR3 E	GDR 3.5KHZ R-05	GDC	7 204S	127 211E	S INDP07WT
1211	27	876	DPR3 B	GDR 3.5KHZ R-06	GDC	7 210S	127 224E	S INDP07WT
511	29	876	DPR3 E	GDR 3.5KHZ R-06	GDC	12 195S	130 412E	S INDP07WT

*** SEISMIC REFLECTION PROFILES ***

1636	14	876	SPRF B	AIRGUN (RF) R-01	GDC	13 468N	119 582E	S INDP07WT
900	17	876	SPRF E	AIRGUN (RF) R-01	GDC	5 106N	122 255E	S INDP07WT
915	17	876	SPRF B	AIRGUN (RF) R-02	GDC	5 77N	122 254E	S INDP07WT
513	23	876	SPRF E	AIRGUN (RF) R-02	GDC	0 10N	124 422E	S INDP07WT
1050	23	876	SPRF B	AIRGUN (RF) R-03	GDC	0 67N	124 468E	S INDP07WT
818	28	876	SPRF E	AIRGUN (RF) R-03	GDC	9 354S	128 536E	S INDP07WT
1636	14	876	SPRF B	AIRGUN (RF) R-01	GDC	13 468N	119 582E	S INDP07WT
1340	16	876	SPRF E	AIRGUN (RF) R-01	GDC	7 327N	121 373E	S INDP07WT
1344	16	876	SPRF B	AIRGUN (RF) R-02	GDC	7 321N	121 370E	S INDP07WT
505	21	876	SPRF E	AIRGUN (RF) R-02	GDC	1 284N	127 28E	S INDP07WT
950	21	876	SPRF B	AIRGUN (RF) R-03	GDC	1 291N	127 72E	S INDP07WT
2108	24	876	SPRF E	AIRGUN (RF) R-03	GDC	1 490S	126 519E	S INDP07WT
610	25	876	SPRF B	AIRGUN (RF) R-04	GDC	1 473S	126 569E	S INDP07WT
2321	27	876	SPRF E	AIRGUN (RF) R-04	GDC	8 299S	128 262E	S INDP07WT

DATE TIME TZ	SAMP	DISP							PAGE	CRUISE
T D.M.Y. LOC LOC CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP					
25 8761353 -80 SNNU	INDP 07 TOW 07	MIC 1	473S	126 572E	S	INDP07WT				
26 876 645 -80 SNNU	INDP 07 TOW 08	MIC 3	154S	125 202E	S	INDP07WT				
27 8761016 -80 SNNU	INDP 07 TOW 09	MIC 6	265S	126 3E	S	INDP07WT				
28 8761250 -80 SNNU	INDP 07 TOW 10	MIC 8	599S	128 385E	S	INDP07WT				

*** MIDWATER TRAWL ***

26 8761420 -80 TMIK B MIDWATER TRAWL 5	MVC 4	320S	125 311E	S	INDP07WT
26 8761925 -80 TMIK E MIDWATER TRAWL 5	MVC 4	527S	125 303E	S	INDP07WT

CURRENT MEASUREMENT - CURATOR SARILEE VALENTINE (EXT.2055)

*** CURRENT MEASUREMENT ***

25 876 737 -80 CMAB	01 1007	VAL 1	502S	127 2E	S	INDP07WT
25 876 846 -80 CMAB	02 1016	VAL 1	488S	126 575E	S	INDP07WT
25 8761007 -80 CMAB	03 1028	VAL 1	471S	126 543E	S	INDP07WT

ROCK DREDGE

1620 22 876	DRR B INDP 10D	2205M	GCR 1	4N	125 123E	S	INDP07WT
1815 22 876	DRR E INDP 10D	2463M	GCR 0	525N	125 79E	S	INDP07WT

DATA COLLECTION AND PROCESSING GROUP - F. WILKES (EXT.2087)

HYDROGRAPHIC CAST

16 876 823 -80 HCNA	TSON	1M05	DCP 8	281N	121 554E	S	INDP07WT
16 8761215 -80 HCNA	TSON	1D14	DCP 8	323N	121 523E	S	INDP07WT
16 8761513 -80 HCNA	TSON	1S19	DCP 8	302N	121 521E	S	INDP07WT
18 876 838 -80 HCNA	TSON	2D20	DCP 2	311N	122 208E	S	INDP07WT
18 8761146 -80 HCNA	TSON	2S20	DCP 2	320N	122 232E	S	INDP07WT
19 8761642 -80 HCNA	TSON	3D16	DCP 3	451N	126 146E	S	INDP07WT
19 8761905 -80 HCNA	TSON	3S20	DCP 3	443N	126 150E	S	INDP07WT
20 876 849 -80 HCNA	TSON	4D16	DCP 2	503N	127 474E	S	INDP07WT
20 8761100 -80 HCNA	TSON	4S20	DCP 2	511N	127 487E	S	INDP07WT
21 8761518 -80 HCNA	TSON	5D14	DCP 1	289N	127 85E	S	INDP07WT
21 8761710 -80 HCNA	TSON	5S20	DCP 1	293N	127 77E	S	INDP07WT
23 8761529 -80 HCNA	TSON	6D17	DCP 0	61N	124 436E	S	INDP07WT
23 8761752 -80 HCNA	TSON	6S20	DCP 0	68N	124 450E	S	INDP07WT
24 8761710 -80 HCNA	TSON	7D20	DCP 0	588S	126 489E	S	INDP07WT
24 8761940 -80 HCNA	TSON	7S20	DCP 0	583S	126 486E	S	INDP07WT
25 8761242 -80 HCNA	TSON	8 24	DCP 1	481S	126 577E	S	INDP07WT
26 876 259 -80 HCNA	TSON	9D20	DCP 3	149S	125 202E	S	INDP07WT
26 876 608 -80 HCNA	TSON	9S20	DCP 3	150S	125 201E	S	INDP07WT
27 876 738 -80 HCNA	TSON	10D17	DCP 6	273S	125 598E	S	INDP07WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
27	876	952	-80	HCNA	TSON	10S20	DCP 6	265S 126	2E S INDP07WT
28	876	20	-80	HCNA	TSON	11 20	DCP 7	362S 127 497E	S INDP07WT
28	876	1207	-80	HCNA	TSON	12 20	DCP 8	526S 128 355E	S INDP07WT

SALINITY, TEMPERATURE, DEPTH

2256	15	876		TDDT	1M	1 5010M S05	DCP 8	264N 121 567E	S INDP07WT
308	16	876		TDDT	1D	3 5010M S14	DCP 8	315N 121 530E	S INDP07WT
644	16	876		TDDT	1S	5 1416M S19	DCP 8	306N 121 522E	S INDP07WT
2308	17	876		TDDT	2D	6 5420M S20	DCP 2	307N 122 200E	S INDP07WT
314	18	876		TDDT	2S	7 1205M S20	DCP 2	314N 122 226E	S INDP07WT
736	19	876		TDDT	3D	8 3915M S16	DCP 3	450N 126 145E	S INDP07WT
1029	19	876		TDDT	3S	9 1205M S20	DCP 3	447N 126 145E	S INDP07WT
2350	19	876		TDDT	4D	10 3600M S16	DCP 2	501N 127 464E	S INDP07WT
229	20	876		TDDT	4S	11 1205M S20	DCP 2	509N 127 485E	S INDP07WT
634	21	876		TDDT	5D	12 3015M S14	DCP 1	283N 127 85E	S INDP07WT
837	21	876		TDDT	5S	13 1000M S20	DCP 1	294N 127 80E	S INDP07WT
624	23	876		TDDT	6D	14 4125M S17	DCP 0	58N 124 431E	S INDP07WT
914	23	876		TDDT	6S	16 1205M S20	DCP 0	68N 124 441E	S INDP07WT
800	24	876		TDDT	7D	17 1005M S20	DCP 0	591S 126 488E	S INDP07WT
1108	24	876		TDDT	7S	18 4750M S20	DCP 0	584S 126 485E	S INDP07WT
404	25	876		TDDT	8	21 1905M S24	DCP 1	484S 126 578E	S INDP07WT
1740	25	876		TDDT	9D	22 5320M S20	DCP 3	143S 125 199E	S INDP07WT
2133	25	876		TDDT	9S	23 1405M S20	DCP 3	150S 125 201E	S INDP07WT
2238	26	876		TDDT	10D	24 4390M S17	DCP 6	275S 126 2E	S INDP07WT
200	27	876		TDDT	10S	25 1205M S20	DCP 6	265S 126 3E	S INDP07WT
1517	27	876		TDDT	11	26 3750M S20	DCP 7	356S 127 495E	S INDP07WT
231	28	876		TDDT	12	28 2005M S20	DCP 8	502S 128 350E	S INDP07WT

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END SAMPLE INDEX