INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH AND MAGNETIC DATA

(Issued October 3, 1977)

INDOPAC EXPEDITION

LEG 16

Honolulu, Hawaii (5 July 1977)
to
San Diego, California (31 July 1977)

R/V Thomas Washington

Chief Scientist - M. Mullin (SIO)

Resident Marine Tech - J. Coatsworth

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center - S. M. Smith,
U. Albright, G. Psaropulos, G. Papadopoulos

Data Collection Funded by:
NSF Grant Number OCE76-23875;
ONR Grant Number N000-14-75-C-0152;
UC 19900
Data Processing Funded by SIA, ONR and NSF

Informal 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 is .3"/deg. long.

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 gamm/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamm/inch; from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 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

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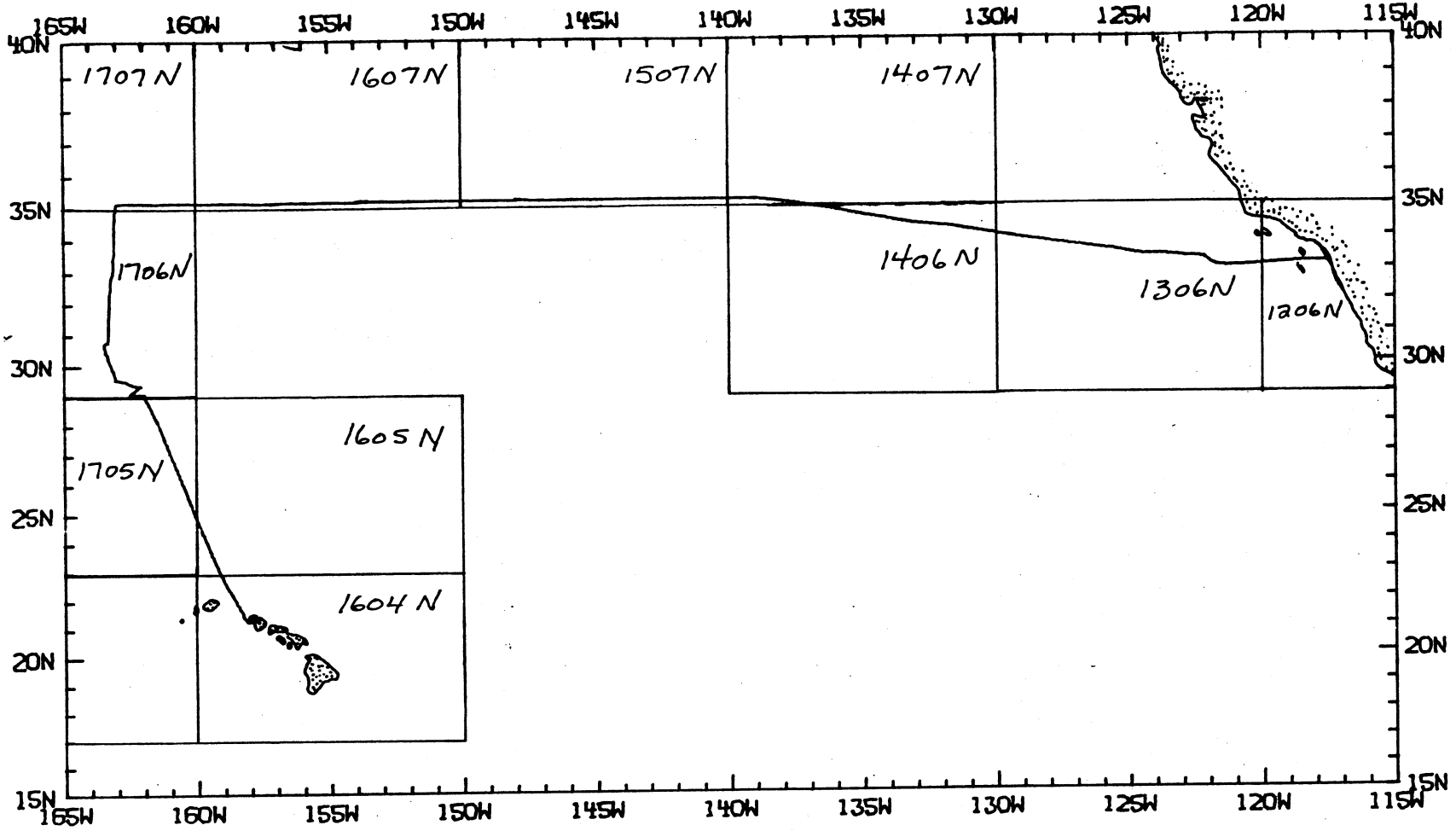
* NO SUBBOTTOM PROFILER DATA COLLECTED

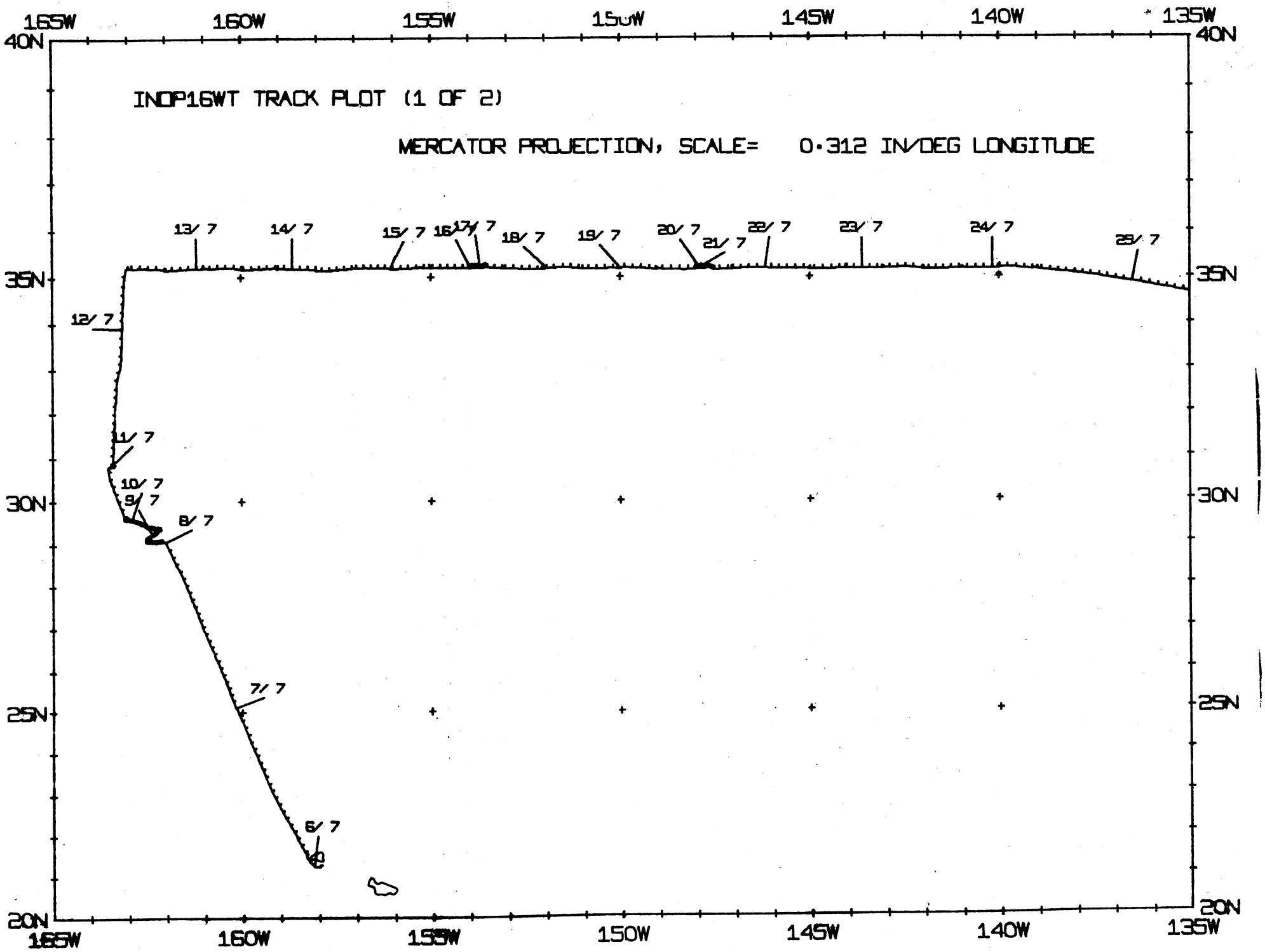


INDOPAC EXPEDITION
LEG 16
R/V THOMAS WASHINGTON

Chief Scientist - M. Mullin (SIO)
Ports - Honolulu, Hawaii - San Diego
Dates - 5 July to 31 July 1977

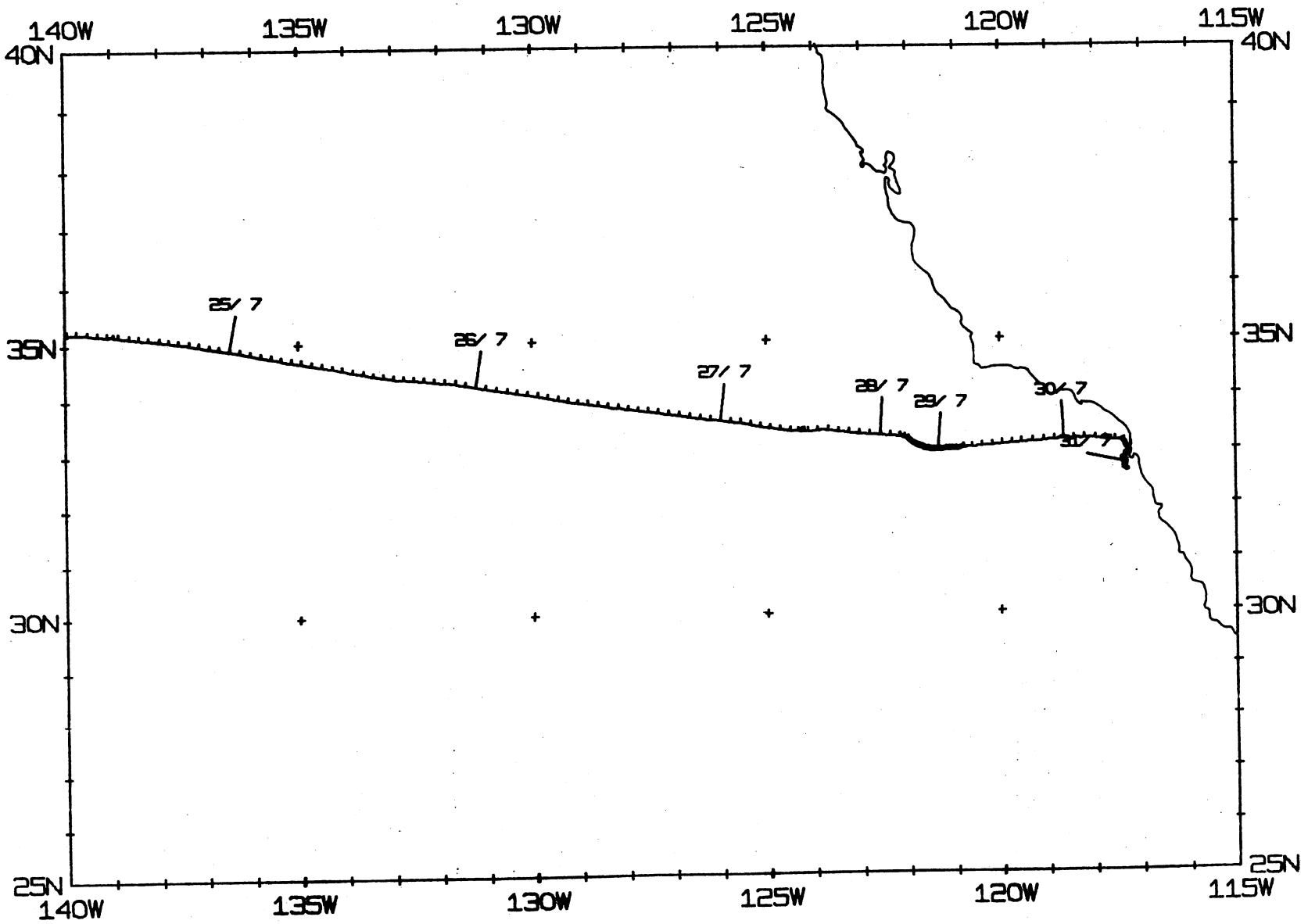
TOTAL MILEAGE

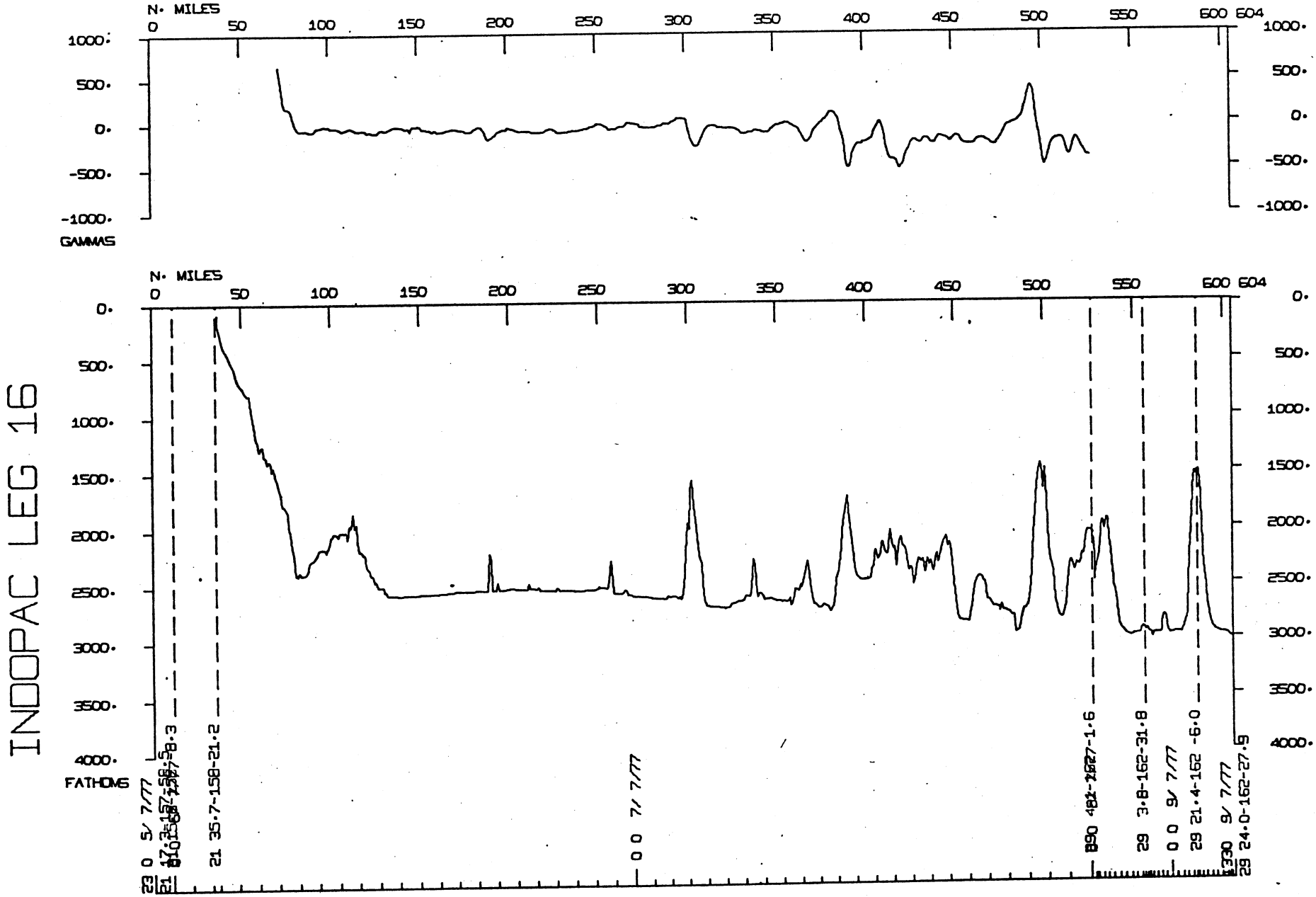
1) Cruise - 3455 miles
2) Bathymetry - 3175 miles
3) Magnetics - 2865 miles
4) Seismic Reflection - none collected


INCP16WT TRACK PLOT (1 OF 2)
MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE
165W
160W
155W
150W
145W
140W
135W
40N
35N
30N
25N
20N
1/ 7
6/ 7
7/ 7
8/ 7
9/ 7
10/ 7
12/ 7
13/ 7
14/ 7
15/ 7
16/ 7
17/ 7
18/ 7
19/ 7
20/ 7
21/ 7
22/ 7
23/ 7
24/ 7
25/ 7

INDP16WT TRACK PLOT (2 OF 2)

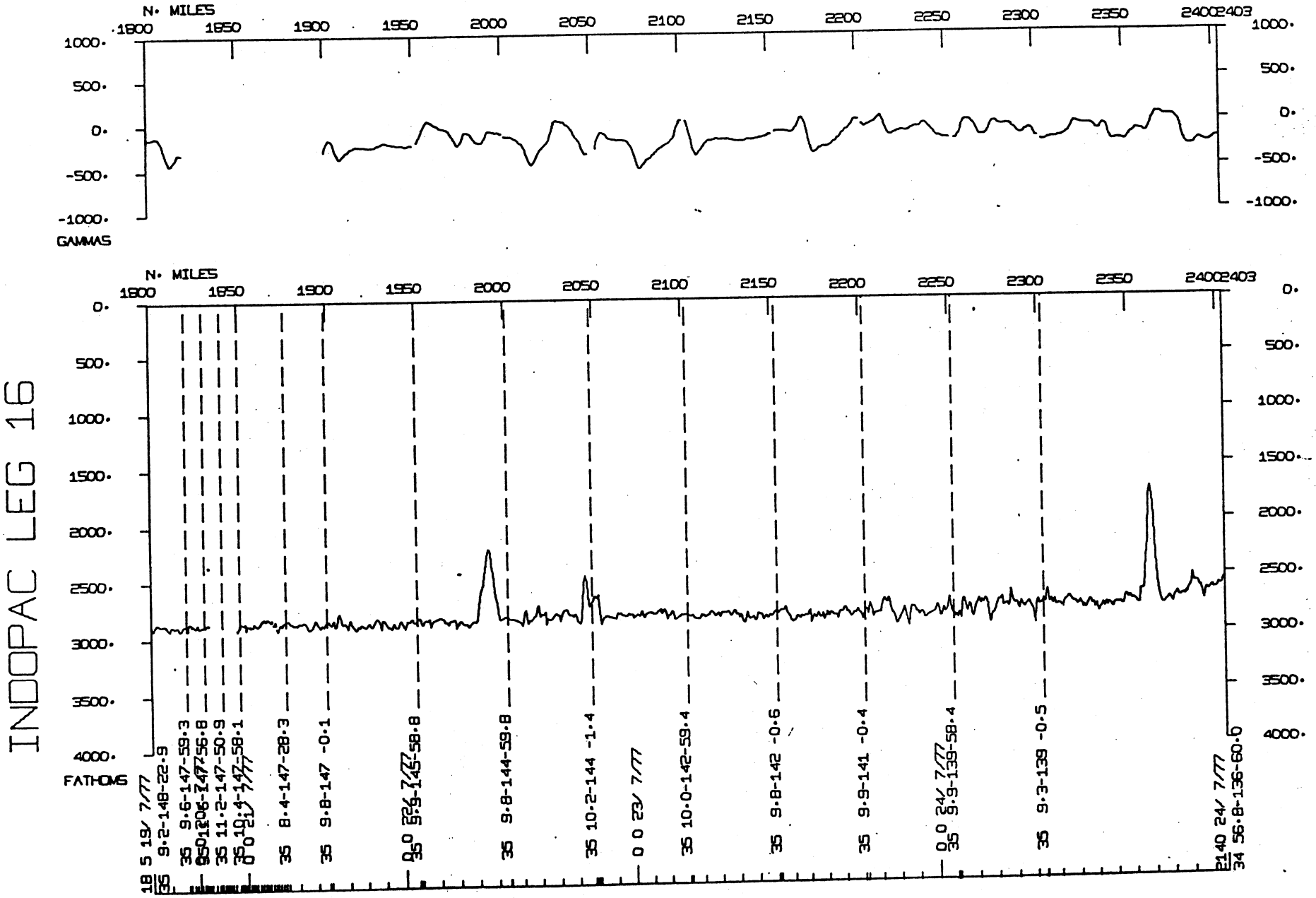
MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



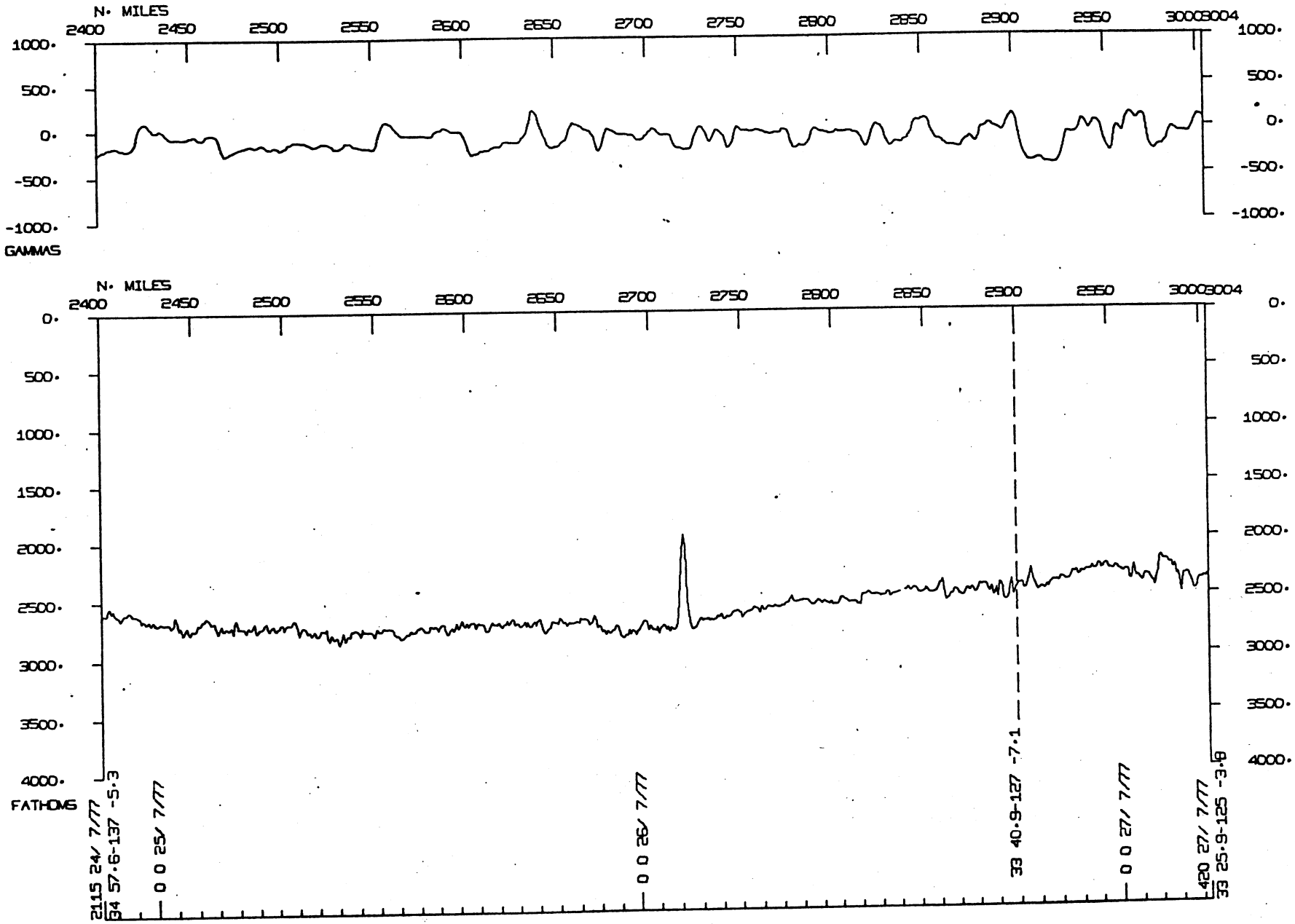

N. MILES
0 50 100 150 200 250 300 350 400 450 500 550 600 604
1000. 500. 0. -500. -1000.
GAMMAS
N. MILES
0 50 100 150 200 250 300 350 400 450 500 550 600 604
0. 500. 1000. 1500. 2000. 2500. 3000. 3500. 4000.
FATHOMS
INDOPAC LEG 16

INDOPAC LEG 16

INDOPAC LEG 16
N. MILES
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1803
1000.
500.
0.
-500.
-1000.
GAMMAS
FATHOMS
35 8.9-148-18.9
35 9.2-149 -0.2
35 9.8-150-58.8
35 10.0-153 -0.2
35 10.0-153-59.5
35 12.1-153-31.4
35 12.0-153-48.1
35 11.2-154 -0.5
35 10.6-154-59.8
35 10.2-157 -2.1
35 9.0-157-59.8
35 10.8-158-58.0


INDOPAC LEG 16
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

INDOPAC LEG 16



INDOPAC LEG 16
N. MILES
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
8453
1000.
500.
0.
-500.
-1000.
GAMMAS
FATHOMS
4000.
3500.
3000.
2500.
2000.
1500.
1000.
500.
0.
33 26.6-125 -8.3
4 0 27/ 7/77
33 21.2-124-17.9
0 0 28/ 7/77
33 14.7-122 -8.4
32 59.9-121-38.1
0 0 29/ 7/77
33 1.1-120-47.1
0 0 30/ 7/77
33 8.9-117-25.5
33 0.0-117-21.3
0 0 31/ 7/77
32 34.8-117-20.0
32 34.8-117-21.3
32 48.3-117-24.1

S.I.O. SAMPLE INDEX

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to
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G. Papadopoulos

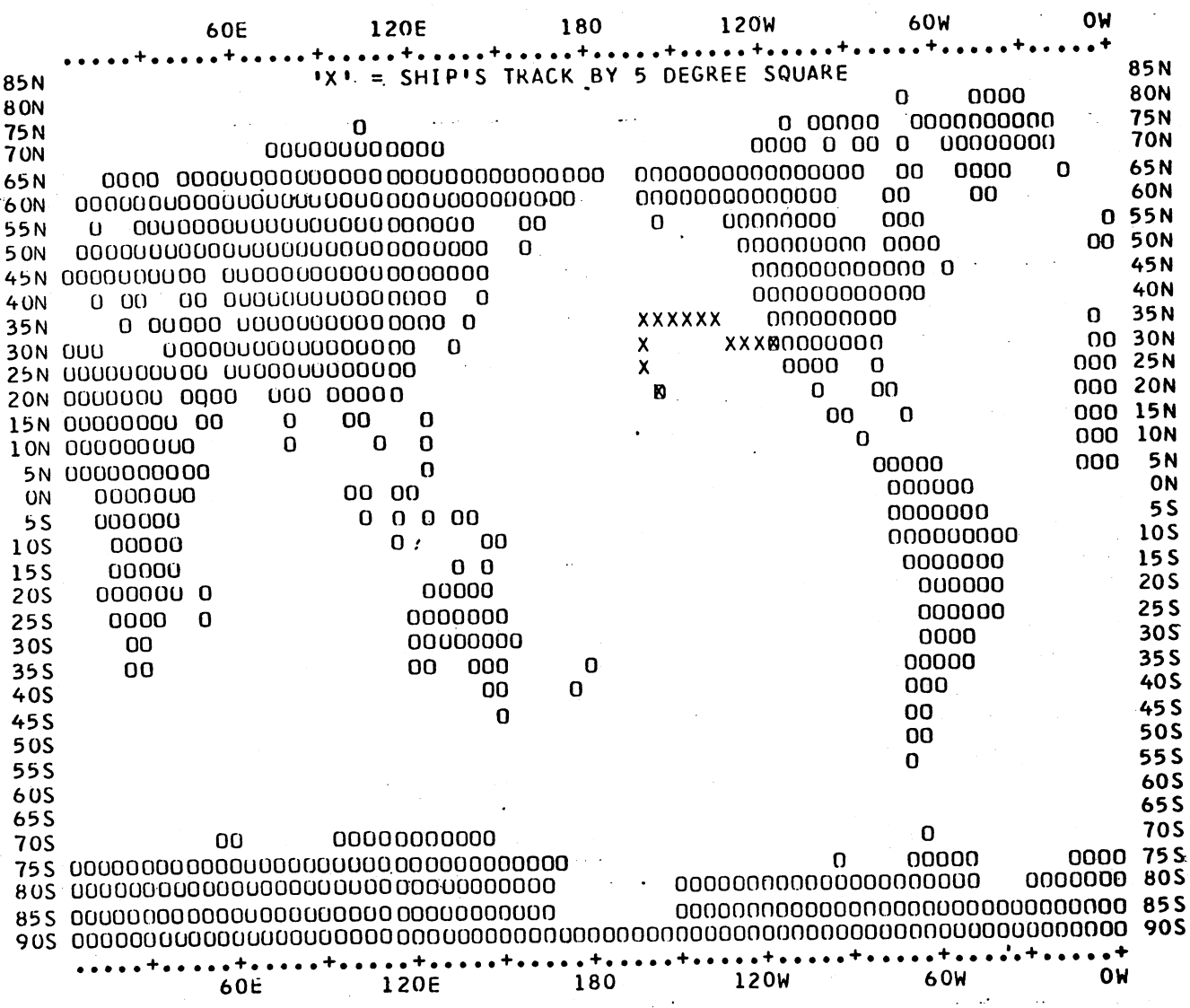
Index Encoding Funded by NSF
Grant Number OCE76-80618
Index Processing and Report Preparation
Funded in Part by SIA

The Sample Index is a first level interdisciplinary listing of time, position, sample identification and disposition of all samples, records and measurements collected on this cruise leg. The index data are encoded at sea by the Resident Technician and processed onshore by the S.I.O. Geological Data Center shortly after the completion of the cruise leg.

Positions are interpolated on the basis of sample time by comparison to a single, edited navigation file. Samples beginning at one time and position and ending at another are entered on two consecutive cards. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.

S.I.O. SAMPLE INDEX GENERATED 27SEP77

*** INDOPAC EXPEDITION LEG 16 (INDP16WT) ***



05JUL77 - HONOLULU, HA.
TO
31JUL77 - SAN DIEGO, CAL.

CHIEF SCIENTIST - MULLIN, M. FCR

SHIP - R/V THOMAS WASHINGTON (SIO)

PRODUCED BY GEOLOGICAL DATA CENTER, SCRIPPS INSTITUTION
OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA 92093

NUMBER OF SAMPLES OF CLASS 'TYPE' GOING TO DESTINATION 'DISP'

DISP	TYPE												TOTAL
	BT	CN	DP	GC	HC	LB	MG	NV	ON	PE	PP	TD	
DCP	25				40				1	4		32	102
FCR	4				2				2	4	10		22
GDC			13			1	2	15					31
GRD				2	1								3
IMR										1			1
MLR		18								1			19
MTG										2			2
SIO										6			6
SIX										1			1
TOTAL	29	18	13	2	43	1	2	15	3	19	10	32	187

SAMPLE 'TYPE' CODES USED ABOVE

BT = BATHYTHERMOGRAM
CN = CLOSING NET
DP = DEPTH
GC = GEOCHEMICAL SAMPLING
HC = HYDROGRAPHIC CAST
LB = LOG BOOKS
MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
NV = NAVIGATION
ON = OPEN NET
PE = PERSONNEL IN SCIENTIFIC PARTY
PP = PLANKTON PUMP
TD = SALINITY/TEMPERATURE/DEPTH (STD)

SAMPLE 'DISP' CODES USED ABOVE

DCP = DATA COLLECTION, PROCESSING GROUP -- F. WILKES (EXT. 3668)
FCR = FOOD CHAIN RESEARCH GROUP -- P. WILLIAMS (EXT. 2929)
GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
IMR = INSTITUTE MARINE RESOURCES
MLR = MARINE LIFE RESEARCH GROUP (EXT. 2866)
MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
SIX = SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)

INDOPAC EXPEDITION LEG 16 INDP16WT

*** PORTS ***

2258 5 777	LGPT B HONOLULU, HA.	21 177N 157 585W S	INDP16WT
1204 31 777	LGPT E SAN DIEGO, CAL.	32 484N 117 242W S	INDP16WT

PERSONNEL

PECS	MULLIN, M.	FCR	INDP16WT
PERT	COATSWORTH, J.	MTG	INDP16WT
PECT	HENRY, A.	MTG	INDP16WT
PE	ANDERSON, G.	DCP	INDP16WT
PES	ANDREAE, M.	SIO	INDP16WT
PES	BARLOW, J.	SIO	INDP16WT
PE	BROOKS, E.	FCR	INDP16WT
PE	COSTELLO, J.	DCP	INDP16WT
PE	FERREIRA, M.	SIX	INDP16WT
PE	KAYE, H.	DCP	INDP16WT
PE	KLING, S.	MLR	INDP16WT
PE	LANDRY, M.	FCR	INDP16WT
PE	MEAD, R.	DCP	INDP16WT
PES	RICHTER, K.	SIO	INDP16WT
PES	SNIDER, L.	SIO	INDP16WT
PES	STAR, J.	SIO	INDP16WT
PE	TSUCHIYA, M.	IMR	INDP16WT
PES	VAKASSIAN, L.	SIO	INDP16WT
PE	ZAKAR, K.	FCR	INDP16WT

*** 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 TZ LOC	SAMP LOC	CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP

UNDERWAY DATA CURATOR - STUART SMITH (EXT.2752)

*** LOG BOOKS ***

300	6	777		LBUW	B UNDERWAY WATCH LOG	GDC	21 366N	158 223W	S INDP16WT
550	30	777		LBUW	E UNDERWAY WATCH LOG	GDC	33 87N	117 255W	S INDP16WT

*** NAVIGATION PLOTS ***

1801	3	777		NVCP	B COMPUTER PLOT 01	GDC	21 177N	157 585W	S INDP16WT
537	7	777		NVCP	E COMPUTER PLOT 01	GDC	26 10N	160 330W	S INDP16WT
539	7	777		NVCP	B COMPUTER PLOT 02	GDC	26 13N	160 332W	S INDP16WT
33	11	777		NVCP	E COMPUTER PLOT 02	GDC	30 482N	163 253W	S INDP16WT
39	11	777		NVCP	B COMPUTER PLOT 03	GDC	30 482N	163 251W	S INDP16WT
803	14	777		NVCP	E COMPUTER PLOT 03	GDC	35 85N	158 1W	S INDP16WT
805	14	777		NVCP	B COMPUTER PLOT 04	GDC	35 85N	158 1W	S INDP16WT
741	18	777		NVCP	E COMPUTER PLOT 04	GDC	35 106N	151 580W	S INDP16WT
742	18	777		NVCP	B COMPUTER PLOT 05	GDC	35 106N	151 578W	S INDP16WT
442	22	777		NVCP	E COMPUTER PLOT 05	GDC	35 110N	145 596W	S INDP16WT
443	22	777		NVCP	B COMPUTER PLOT 06	GDC	35 110N	145 596W	S INDP16WT
337	24	777		NVCP	E COMPUTER PLOT 06	GDC	35 109N	139 579W	S INDP16WT
340	24	777		NVCP	B COMPUTER PLOT 07	GDC	35 110N	139 579W	S INDP16WT
1601	25	777		NVCP	E COMPUTER PLOT 07	GDC	34 218N	132 582W	S INDP16WT
5	7771300		100	NVBP	B BRIDGE PLOT 01	GDC	21 173N	157 585W	S INDP16WT
7	777	22	100	NVBP	E BRIDGE PLOT 01	GDC	26 467N	160 548W	S INDP16WT
6	777	236	100	NVBP	B BRIDGE PLOT 02	GDC	23 114N	159 175W	S INDP16WT
9	7771930		100	NVBP	E BRIDGE PLOT 02	GDC	29 346N	163 54W	S INDP16WT
9	7771502		100	NVBP	B BRIDGE PLOT 03	GDC	29 335N	162 558W	S INDP16WT
13	7771710		100	NVBP	E BRIDGE PLOT 03	GDC	35 91N	157 598W	S INDP16WT
13	7771710		100	NVBP	B BRIDGE PLOT 04	GDC	35 91N	157 598W	S INDP16WT
19	777	957	100	NVBP	E BRIDGE PLOT 04	GDC	35 96N	147 592W	S INDP16WT
20	777	720	100	NVBP	B BRIDGE PLOT 05	GDC	35 104N	148 2W	S INDP16WT
24	777	132	90	NVBP	E BRIDGE PLOT 05	GDC	35 93N	139 5W	S INDP16WT
24	777	310	90	NVBP	B BRIDGE PLOT 06	GDC	35 93N	139 15W	S INDP16WT
25	7772208		90	NVBP	E BRIDGE PLOT 06	GDC	33 592N	129 387W	S INDP16WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
25	7772208	90	NVBP	B	BRIDGE PLOT 07	GDC	33 592N	129 387W	S INDP16WT
29	777 605	80	NVBP	E	BRIDGE PLOT 07	GDC	33 13N	120 474W	S INDP16WT
29	777 606	80	NVBP	B	BRIDGE PLOT 08	GDC	33 13N	120 474W	S INDP16WT
31	777 800	70	NVBP	E	BRIDGE PLOT 08	GDC	32 484N	117 242W	S INDP16WT

*** FATHOGRAMS ***

300	6 777			DPRT	B GDR 12KHZ R-01	GDC	21 366N	158 223W	S INDP16WT
13	8 777			DPRT	E GDR 12KHZ R-01	GDC	29 42N	162 15W	S INDP16WT
30	8 777			DPRT	B GDR 12KHZ R-02	GDC	29 45N	162 15W	S INDP16WT
1527	10 777			DPRT	E GDR 12KHZ R-02	GDC	30 454N	163 306W	S INDP16WT
517	11 777			DPRT	B GDR 12KHZ R-03	GDC	30 483N	163 222W	S INDP16WT
2130	13 777			DPRT	E GDR 12KHZ R-03	GDC	35 109N	158 600W	S INDP16WT
2138	13 777			DPRT	B GDR 12KHZ R-04	GDC	35 109N	158 599W	S INDP16WT
1945	15 777			DPRT	E GDR 12KHZ R-04	GDC	35 108N	154 0W	S INDP16WT
720	17 777			DPRT	B GDR 12KHZ R-05	GDC	35 106N	153 575W	S INDP16WT
1047	19 777			DPRT	E GDR 12KHZ R-05	GDC	35 113N	149 413W	S INDP16WT
1053	19 777			DPRT	B GDR 12KHZ R-06	GDC	35 113N	149 399W	S INDP16WT
918	23 777			DPRT	E GDR 12KHZ R-06	GDC	35 98N	142 5W	S INDP16WT
1150	23 777			DPRT	B GDR 12KHZ R-07	GDC	35 91N	142 1W	S INDP16WT
1052	26 777			DPRT	E GDR 12KHZ R-07	GDC	33 528N	128 510W	S INDP16WT
1100	26 777			DPRT	B GDR 12KHZ R-08	GDC	33 526N	128 492W	S INDP16WT
227	27 777			DPRT	E GDR 12KHZ R-08	GDC	33 300N	125 281W	S INDP16WT
300	6 777			DPR3	B GDR 3.5KHZ R-01	GDC	21 366N	158 223W	S INDP16WT
1622	12 777			DPR3	E GDR 3.5KHZ R-01	GDC	35 91N	162 12W	S INDP16WT
2006	12 777			DPR3	B GDR 3.5KHZ R-02	GDC	35 89N	161 588W	S INDP16WT
0	18 777			DPR3	E GDR 3.5KHZ R-02	GDC	35 107N	151 566W	S INDP16WT
845	18 777			DPR3	B GDR 3.5KHZ R-03	GDC	35 110N	151 455W	S INDP16WT
1030	22 777			DPR3	E GDR 3.5KHZ R-03	GDC	35 98N	145 6W	S INDP16WT
1108	22 777			DPR3	B GDR 3.5KHZ R-04	GDC	35 96N	144 595W	S INDP16WT
957	25 777			DPR3	E GDR 3.5KHZ R-04	GDC	34 334N	134 176W	S INDP16WT
1250	26 777			DPR3	B GDR 3.5KHZ R-05	GDC	33 497N	128 256W	S INDP16WT
527	30 777			DPR3	E GDR 3.5KHZ R-05	GDC	33 90N	117 270W	S INDP16WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.			DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** MAGNETOMETER ***											
608	6 777			MGR	B MAGNETICS R-01			GDC 22	72N 158 402W	S	INDP16WT
1330	26 777			MGR	E MAGNETICS R-01			GDC 33	487N 128 169W	S	INDP16WT
1337	26 777			MGR	B MAGNETICS R-02			GDC 33	486N 128 154W	S	INDP16WT
527	30 777			MGR	E MAGNETICS R-02			GDC 33	90N 117 270W	S	INDP16WT
HYDROGRAPHIC CAST											
5	7771630	100	HCNI		NI		G	GRD 21	359N 158 214W	S	INDP16WT
10	777 720	100	HCNI		TSONI	D		DCP 30	462N 163 303W	S	INDP16WT
10	7772035	100	HCNI		TSONI	D	A	DCP 30	480N 163 221W	S	INDP16WT
11	7772147	100	HCNI		TSO			(20) DCP 35	112N 162 594W	S	INDP16WT
12	777 502	100	HCNI		TSONI			DCP 35	93N 162 12W	S	INDP16WT
12	777 914	100	HCNI		TSONI		G	DCP 35	90N 162 2W	S	INDP16WT
12	7772355	100	HCNI		TSONI			DCP 35	108N 159 592W	S	INDP16WT
13	777 440	100	HCNI		TSONI		G	DCP 35	93N 159 587W	S	INDP16WT
13	7771110	100	HCNI		TSO			DCP 35	108N 158 596W	S	INDP16WT
13	7771840	100	HCNI		TSONI			DCP 35	91N 157 599W	S	INDP16WT
14	777 10	100	HCNI		TSONI		G	DCP 35	76N 158 3W	S	INDP16WT
14	777 642	100	HCNI		TSO			DCP 35	104N 157 23W	S	INDP16WT
14	7771451	100	HCNI		TSONI			DCP 35	99N 156 24W	S	INDP16WT
14	7772038	100	HCNI		TSONI		G	DCP 35	95N 156 25W	S	INDP16WT
15	777 353	100	HCNI		TSO			DCP 35	108N 154 596W	S	INDP16WT
16	7771704	100	HCNI		TSON			DCP 35	99N 153 577W	S	INDP16WT
16	7772051	100	HCNI		TSON		G	DCP 35	104N 153 578W	S	INDP16WT
17	777 317	100	HCNI		TSO			DCP 35	101N 153 7W	S	INDP16WT
17	7771116	100	HCNI		TSON			DCP 35	101N 151 570W	S	INDP16WT
17	7772055	100	HCNI		TSON		G	DCP 35	103N 151 594W	S	INDP16WT
18	777 332	100	HCNI		TSO			DCP 35	101N 150 590W	S	INDP16WT
18	7771036	100	HCNI		TSONI			DCP 35	104N 149 595W	S	INDP16WT
18	7771440	100	HCNI		TSONI		G	DCP 35	107N 149 600W	S	INDP16WT
19	777 440	100	HCNI		TSO			DCP 35	99N 148 591W	S	INDP16WT
20	777 904	100	HCNI		TSON			DCP 35	104N 147 584W	S	INDP16WT
20	7771231	100	HCNI		TSON		G	DCP 35	108N 147 568W	S	INDP16WT
21	777 915	100	HCNI		TSO			DCP 35	98N 147 3W	S	INDP16WT
21	7771608	100	HCNI		TSON			DCP 35	105N 145 591W	S	INDP16WT
21	7771902	100	HCNI		TSON		G	DCP 35	110N 145 597W	S	INDP16WT
22	777 125	100	HCNI		TSO			DCP 35	96N 144 595W	S	INDP16WT
22	777 818	100	HCNI		TSON			DCP 35	104N 143 599W	S	INDP16WT
22	7771115	100	HCNI		TSON		G	DCP 35	104N 144 1W	S	INDP16WT
22	7771740	100	HCNI		TSO			DCP 35	104N 143 2W	S	INDP16WT
23	777 143	90	HCNI		TSON			DCP 35	93N 142 3W	S	INDP16WT
23	777 439	90	HCNI		TSON		G	DCP 35	91N 141 599W	S	INDP16WT
23	7771043	90	HCNI		TSO			DCP 35	99N 140 600W	S	INDP16WT
23	7771721	90	HCNI		TSON			DCP 35	107N 139 579W	S	INDP16WT
23	7772023	90	HCNI		TSONI	D	G	DCP 35	112N 139 587W	S	INDP16WT
24	777 208	90	HCNI		TSO			DCP 35	94N 139 9W	S	INDP16WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.					DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
27	777	125	80	HCNI	TSONI D	G				DCP 33	207N	124 165W S	INDP16WT
27	777	350	80	HCNI	TSONI D					DCP 33	207N	124 159W S	INDP16WT
27	7771830		80	HCNI	I D	G				FCR 33	147N	122 81W S	INDP16WT
29	7772230		70	HCNA		G				FCR 33	90N	117 264W S	INDP16WT
SALINITY, TEMPERATURE, DEPTH													
12	777	502	100	TDDT		4	5	5692M	H20	DCP 35	93N	162 12W S	INDP16WT
12	777	914	100	TDDT		4	7	1185M	H20	DCP 35	90N	162 2W S	INDP16WT
13	7771105		100	TDDT		7	13	1181M	H20	DCP 35	108N	158 596W S	INDP16WT
13	7771840		100	TDDT		8	14	6050M	H22	DCP 35	91N	157 599W S	INDP16WT
14	777	10	100	TDDT		8	16	1185M	H20	DCP 35	76N	158 3W S	INDP16WT
14	777	642	100	TDDT		9	17	1188M	H18	DCP 35	104N	157 23W S	INDP16WT
14	7772038		100	TDDT		10	20	1185M	H20	DCP 35	95N	156 25W S	INDP16WT
15	777	353	100	TDDT		11	23	1195M	H20	DCP 35	108N	154 596W S	INDP16WT
16	7771704		100	TDDT		12	25	5685M	H21	DCP 35	99N	153 577W S	INDP16WT
16	7772051		100	TDDT		12	27	1188M	H20	DCP 35	104N	153 578W S	INDP16WT
17	777	317	100	TDDT		13	28	1188M	H20	DCP 35	101N	153 7W S	INDP16WT
17	7771116		100	TDDT		14	29	5752M	H12	DCP 35	101N	151 570W S	INDP16WT
17	7772055		100	TDDT		14	32	1188M	H20	DCP 35	103N	151 594W S	INDP16WT
18	777	320	100	TDDT		15	33	1188M	H20	DCP 35	101N	150 590W S	INDP16WT
18	7771036		100	TDDT		16	34	5753M	H21	DCP 35	104N	149 595W S	INDP16WT
18	7771440		100	TDDT		16	36	1184M	H20	DCP 35	107N	149 600W S	INDP16WT
19	777	440	100	TDDT		17	37	1184M	H20	DCP 35	99N	148 591W S	INDP16WT
20	777	904	100	TDDT		18	38	5675M	H21	DCP 35	104N	147 584W S	INDP16WT
20	7771231		100	TDDT		18	40	1173M	H20	DCP 35	108N	147 568W S	INDP16WT
21	777	910	100	TDDT		19	41	1188M	H20	DCP 35	98N	147 3W S	INDP16WT
21	7771608		100	TDDT		20	42	5372M	H21	DCP 35	105N	145 591W S	INDP16WT
21	7771902		100	TDDT		20	44	1184M	H20	DCP 35	110N	145 597W S	INDP16WT
22	777	120	100	TDDT		21	45	1188M	H20	DCP 35	96N	144 595W S	INDP16WT
22	777	818	100	TDDT		22	46	5070M	H19	DCP 35	104N	143 599W S	INDP16WT
22	7771115		100	TDDT		22	48	1188M	H20	DCP 35	104N	144 1W S	INDP16WT
22	7771740		100	TDDT		23	49	1195M	H20	DCP 35	104N	143 2W S	INDP16WT
23	777	143	90	TDDT		24	50	5300M	H21	DCP 35	93N	142 3W S	INDP16WT
23	777	439	90	TDDT		24	52	990M	H20	DCP 35	91N	141 599W S	INDP16WT
23	7771045		90	TDDT		25	53	1188M	H20	DCP 35	99N	140 600W S	INDP16WT
23	7771721		90	TDDT		26	54	5500M	H21	DCP 35	107N	139 579W S	INDP16WT
23	7772023		90	TDDT		26	56	986M	H20	DCP 35	112N	139 587W S	INDP16WT
24	777	208	90	TDDT		27	58	1199M	H20	DCP 35	94N	139 9W S	INDP16WT
PLANKTON PUMP													
7	7772000		100	PP	B T			WA		FCR 29	47N	162 20W S	INDP16WT
8	777	530	100	PP	E T			WA		FCR 29	38N	162 318W S	INDP16WT
8	777	736	100	PP	B T			WA		FCR 29	45N	162 319W S	INDP16WT
8	7771830		100	PP	E T			WA		FCR 29	205N	162 79W S	INDP16WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE		SAMPLE IDENT.		DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
8	7772015	100	PP	B	T	WA		FCR	29 214N	162 60W	S INDP16WT
9	777 534	100	PP	E	T	WA		FCR	29 259N	162 338W	S INDP16WT
9	777 730	100	PP	B	T	WA		FCR	29 272N	162 354W	S INDP16WT
9	7771830	100	PP	E	T	WA		FCR	29 344N	163 49W	S INDP16WT
27	7772030	80	PP	B	PLANKTON PUMP			FCR	33 136N	122 63W	S INDP16WT
28	777 505	80	PP	E	PLANKTON PUMP			FCR	33 27N	121 478W	S INDP16WT
28	777 735	80	PP	B	PLANKTON PUMP			FCR	33 9N	121 417W	S INDP16WT
28	7771830	80	PP	E	PLANKTON PUMP			FCR	32 583N	121 152W	S INDP16WT
28	7772030	80	PP	B	PLANKTON PUMP			FCR	32 586N	121 96W	S INDP16WT
29	777 500	80	PP	E	PLANKTON PUMP			FCR	33 10N	120 472W	S INDP16WT
30	777 30	70	PP	B	PLANKTON PUMP			FCR	33 79N	117 256W	S INDP16WT
30	777 605	70	PP	E	PLANKTON PUMP			FCR	33 1N	117 214W	S INDP16WT
30	777 830	70	PP	B	PLANKTON PUMP			FCR	33 4N	117 210W	S INDP16WT
30	7771940	70	PP	E	PLANKTON PUMP			FCR	32 375N	117 205W	S INDP16WT
30	7772115	70	PP	B	PLANKTON PUMP			FCR	32 351N	117 205W	S INDP16WT
31	777 430	70	PP	E	PLANKTON PUMP			FCR	32 478N	117 234W	S INDP16WT
OPEN NET											
7	7771444	100	ON50				L	DCP	29 47N	162 17W	S INDP16WT
10	777 500	100	ON70			0035V 0100	0	FCR	30 452N	163 306W	S INDP16WT
26	7772330	90	ON50			5050L		FCR	33 209N	124 165W	S INDP16WT
CLOSING NET											
15	7771430	100	CNXX			3362H	0 0	MLR	35 117N	153 564W	S INDP16WT
15	7771513	100	CNXX			0062H	25 25	MLR	35 118N	153 552W	S INDP16WT
15	7771613	100	CNXX			0062H	50 50	MLR	35 122N	153 540W	S INDP16WT
15	7771733	100	CNXX			0062H	100 100	MLR	35 125N	153 525W	S INDP16WT
15	7772059	100	CNXX			0062H	500 500	MLR	35 122N	153 499W	S INDP16WT
16	777 323	100	CNXX			0062H	1000 1000	MLR	35 122N	153 429W	S INDP16WT
19	7772051	100	CNXX			0062H	1000 1000	MLR	35 114N	147 522W	S INDP16WT
19	7772100	100	CNXX			0062H	0 0	MLR	35 104N	147 582W	S INDP16WT
19	7772120	100	CNXX			0062H	200 200	MLR	35 109N	147 579W	S INDP16WT
19	7772220	100	CNXX			0062H	750 750	MLR	35 126N	147 576W	S INDP16WT
19	7772340	100	CNXX			0062H	500 500	MLR	35 119N	147 489W	S INDP16WT
20	777 150	100	CNXX			0062H	400 400	MLR	35 111N	147 518W	S INDP16WT
20	777 328	100	CNXX			0062H	300 300	MLR	35 110N	147 518W	S INDP16WT
20	777 446	100	CNXX			0062H	100 100	MLR	35 104N	147 551W	S INDP16WT
20	777 549	100	CNXX			0062H	50 50	MLR	35 102N	147 561W	S INDP16WT
20	777 640	100	CNXX			0062H	25 25	MLR	35 101N	147 567W	S INDP16WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
20	7772023	100		CNXX	0062H 2000 2000	MLR	35 104N	147 440W S	INDP16WT
21	777 136	100		CNXX	0062H 2000 2000	MLR	35 105N	147 352W S	INDP16WT
	GEOCHEMICAL SAMPLE								
10	7771536	100		GCXX	I D	GRD	30 483N	163 241W S	INDP16WT
18	7771950	100		GCXX	I D	GRD	35 105N	150 8W S	INDP16WT
	*** BATHYTHERMOGRAPH ***								
0 5	777			BTX	NO. SAMPLES = 01	DCP	21 177N	157 585W S	INDP16WT
0 7	777			BTX	NO. SAMPLES = 01	DCP	25 67N	160 103W S	INDP16WT
7	7772046	100		BTX	BATHYTHERMOGRAPH	FCR	29 42N	162 44W S	INDP16WT
0 8	777			BTX	NO. SAMPLES = 01	DCP	29 30N	162 9W S	INDP16WT
8	7771900	100		BTX	BATHYTHERMOGRAPH	FCR	29 208N	162 72W S	INDP16WT
0 11	777			BTX	NO. SAMPLES = 01	DCP	30 481N	163 259W S	INDP16WT
11	7772357	100		BTX	BATHYTHERMOGRAPH	DCP	35 113N	162 396W S	INDP16WT
0 12	777			BTX	NO. SAMPLES = 16	DCP	33 540N	163 70W S	INDP16WT
12	777 48	100		BTX	BATHYTHERMOGRAPH	DCP	35 114N	162 282W S	INDP16WT
12	777 149	100		BTX	BATHYTHERMOGRAPH	DCP	35 111N	162 150W S	INDP16WT
12	777 257	100		BTX	BATHYTHERMOGRAPH	DCP	35 101N	162 18W S	INDP16WT
12	7771002	100		BTX	BATHYTHERMOGRAPH	DCP	35 89N	161 595W S	INDP16WT
12	7771053	100		BTX	BATHYTHERMOGRAPH	DCP	35 92N	161 493W S	INDP16WT
12	7771143	100		BTX	BATHYTHERMOGRAPH	DCP	35 97N	161 383W S	INDP16WT
12	7771235	100		BTX	BATHYTHERMOGRAPH	DCP	35 102N	161 274W S	INDP16WT
0 13	777			BTX	NO. SAMPLES = 08	DCP	35 112N	161 92W S	INDP16WT
0 14	777			BTX	NO. SAMPLES = 19	DCP	35 105N	158 372W S	INDP16WT
0 15	777			BTX	NO. SAMPLES = 09	DCP	35 98N	156 21W S	INDP16WT
0 16	777			BTX	NO. SAMPLES = 00	DCP	35 116N	153 574W S	INDP16WT
0 17	777			BTX	NO. SAMPLES = 15	DCP	35 138N	153 418W S	INDP16WT
0 18	777			BTX	NO. SAMPLES = 10	DCP	35 107N	151 566W S	INDP16WT
0 19	777			BTX	NO. SAMPLES = 10	DCP	35 106N	149 598W S	INDP16WT
0 20	777			BTX	NO. SAMPLES = 01	DCP	35 148N	147 570W S	INDP16WT
0 21	777			BTX	NO. SAMPLES = 15	DCP	35 103N	147 549W S	INDP16WT
0 22	777			BTX	NO. SAMPLES = 08	DCP	35 109N	146 77W S	INDP16WT
0 23	777			BTX	NO. SAMPLES = 18	DCP	35 104N	143 351W S	INDP16WT
0 28	777			BTX	NO. SAMPLES = 02	DCP	33 161N	122 350W S	INDP16WT
28	777 632		80	BTX	BATHYTHERMOGRAPH	FCR	33 17N	121 442W S	INDP16WT
28	7771840		80	BTX	BATHYTHERMOGRAPH	FCR	32 583N	121 147W S	INDP16WT
99					END SAMPLE INDEX				INDP16WT