INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued May 20, 1977)

INDOPAC EXPEDITION

LEG 12

Phuket, Thailand (24 March 1977)
to
Padang, Indonesia (10 April 1977)

R/V Thomas Washington

Co-Chief Scientists - J. Curray and D. Karig (Cornell)

Resident Marine Tech - R. Comer

Post-Cruise Processing and Report Preparation
by SIO Geological Data Center - S. Smith, U. Albright,
R. Lingley, G. Psaropulos, G. Papadopoulos

Data Collection Funded by NSF
Contract Number OCE76-24101
Data Processing Funded by SIA and ONR

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 (.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.

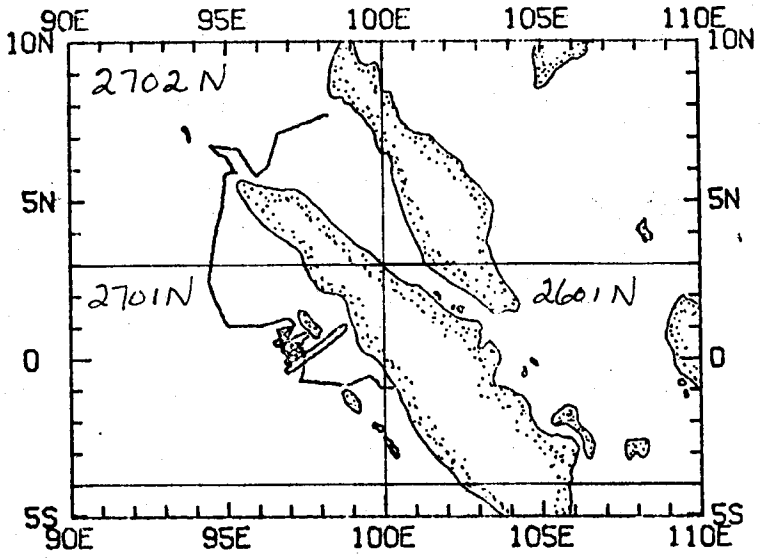
6. Microfilm or Xerox copies of:

   a. Echosounder records - 12 and 3.5 kHz frequency

   b. Subbottom profiler records (airgun)

   c. Magnetometer records

   d. Underway Data Log

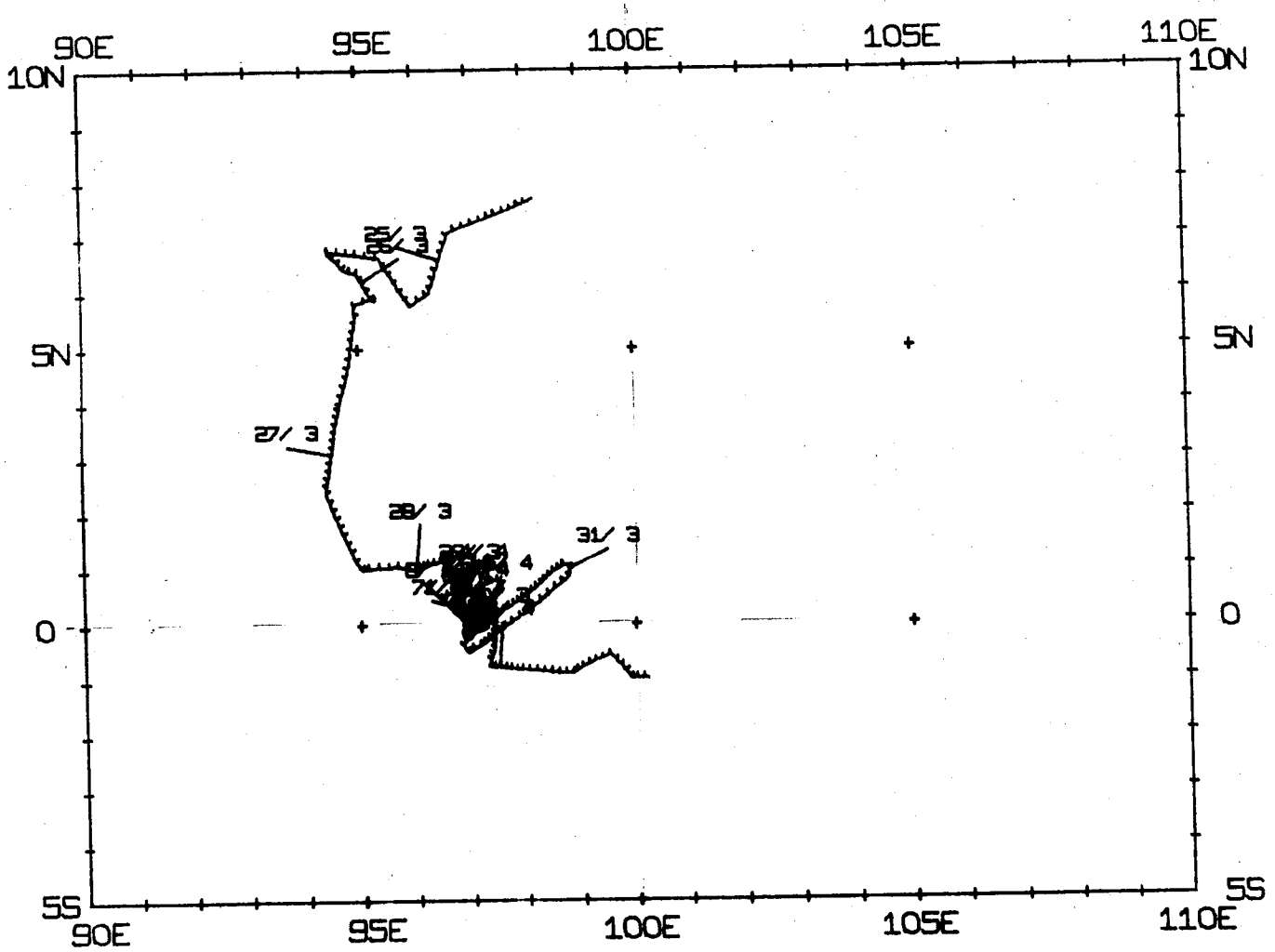


INDOPAC EXPEDITION
LEG 12
R/V Thomas Washington
Co-Chief Scientists: J. R. Curray and
D. E. Karig (Cornell)
Ports: Phuket, Thailand - Padang, Indonesia
Dates: 24 March - 10 April 1977

TOTAL MILEAGE
1) Cruise - 2383 miles
2) Bathymetry - 2350 miles
3) Magnetics - 2133 miles
4) Seismic Reflection - 2103 miles

INDP12WT TRACK PLOT (1 OF 1)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



S.I.O. SAMPLE INDEX

(Issued May 20, 1977)

INDOPAC EXPEDITION

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Co-Chief Scientists - J. Curray and D. Karig (Cornell)

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Post-Cruise Processing and Report Preparation
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R. Lingley, G. Psaropulos, G. Papadopoulos

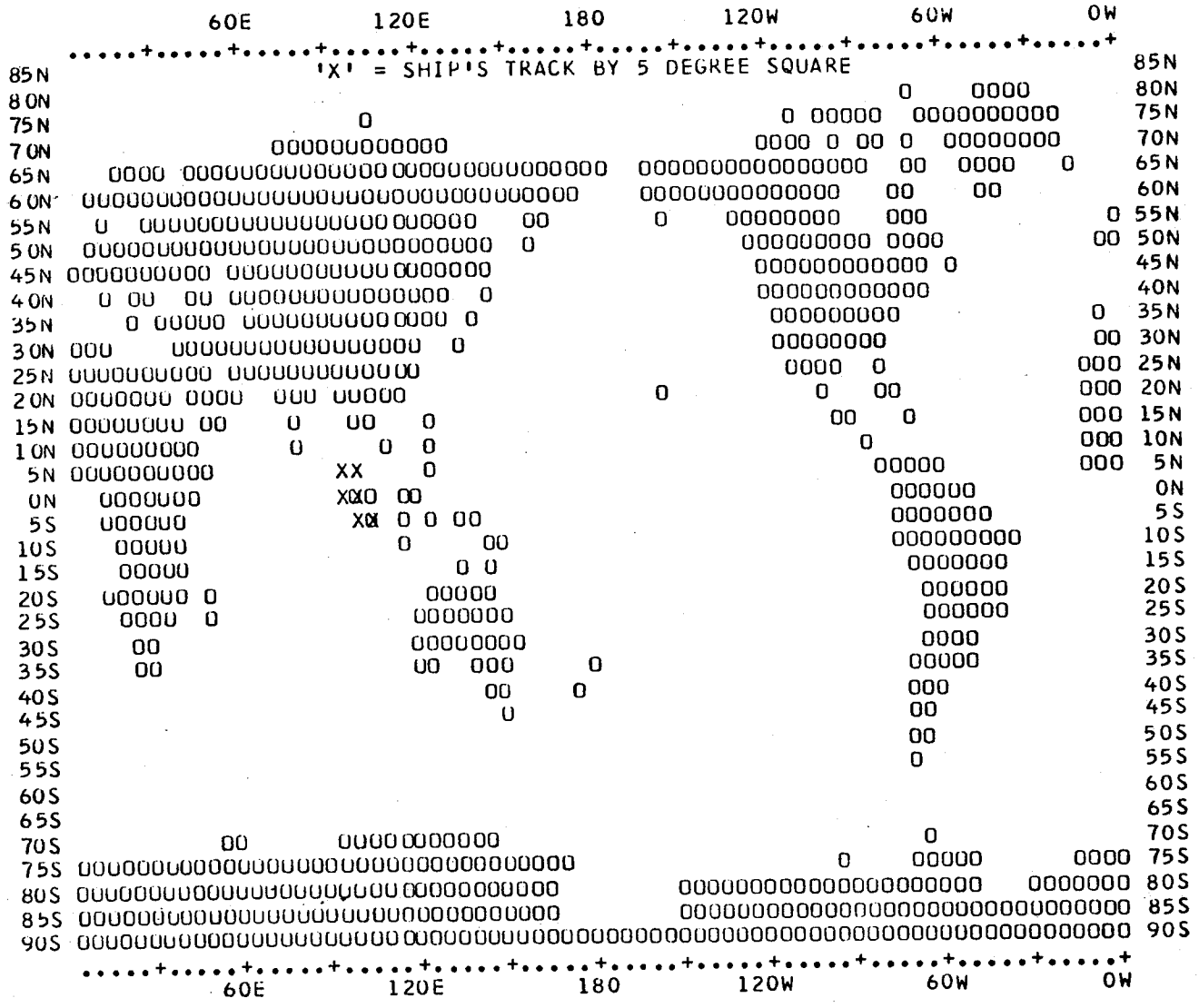
Index Encoding Funded by NSF
Grant Number OCE76-80618
Index Processing and Report Preparation
Funded in Part by SIA

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 16MAY77

*** INDOPAC EXPEDITION LEG 12 (INDP12WT) ***



24MAR77 - PHUKET, THAILAND
TO
10APR77 - PADANG, INDONESIA

CHIEF SCIENTISTS - CURRAY, J. GRD
KARIG, D. CLU

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	BU	CO	DP	GV	HF	LB	MG	NV	PE	SN	SP	SR	
CLU										1				1
DCP	6													6
DDM		2										20	1	23
GCR			18											18
GDC				27				2	7			29		65
GRD										2				2
JRC							2							2
LAW						10								10
LMD					4									4
MIC											2			2
MPL										1				1
MTG										1				1
SCG										2		25		27
SGG										2				2
SIO										3				3
SIX										6				6
TOTAL	6	2	18	27	4	10	2	2	7	18	2	74	1	173

SAMPLE 'TYPE' CODES USED ABOVE

BT = BATHYTHERMOGRAM
BU = BUOY (OCEANOGRAPHIC) REPLACED TYPE RB MAR. 74
CO = CORE (SEE ALSO TYPE DH**)
DP = DEPTH
GV = GRAVITY
HF = HEAT PROBE
LB = LOG BOOKS
MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
NV = NAVIGATION
PE = PERSONNEL IN SCIENTIFIC PARTY
SN = SURFACE NET
SP = SEISMIC REFLECTION PROFILE AIRGUN
SR = SEISMIC REFRACTION

SAMPLE 'DISP' CODES USED ABOVE

CLU = CORNELL UNIVERSITY, ITHACA, N.Y.
CLU = DAN KARIG (DEPT. OF GEOLOG. SCIENCE)
DCP = DATA COLLECTION, PROCESSING GROUP -- F. WILKES (EXT. 3668)
DDM = ANISOTROPY DATA, DELPHA D. MCGOWAN (EXT. 2851)
GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT.2182)
GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
JRC = J.R. CURRAY, GRD, (EXT. 3299)
LAW = LAWRENCE LAWVER (MARINE PHYSICAL LAB, EXT. 3356)
LMD = LEROY M. DORMAN (EXT. 2406)
MIC = MARINE INVERTEBRATE CURATOR - A.FLEMINGER, (EXT. 2071)
MPL = MARINE PHYSICAL LAB. (EXT 2305)
MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
SGG = SHIPBOARD GEOPHYSICAL GROUP--P. CRAMPTON (EXT.2079)
SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
SIX = SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)

S.I.O. SAMPLE INDEX

INDOPAC EXPEDITION LEG 12 INDP12WT

*** PORTS ***

857 24 377	LGPT B	PHUKET, THAILAND	7 530N 98 240E F	INDP12WT
0 10 477	LGPT E	PADANG, INDONESIA	1 000S 100 220E F	INDP12WT
225 26 377	LGSS B	SABANG, INDONESIA	5 530N 95 190E F	INDP12WT
323 26 377	LGSS E	SABANG, INDONESIA	5 530N 95 190E F	INDP12WT

PERSONNEL

PECS	CURRAY, J.	GRD	INDP12WT
PECS	KARIG, D.	CLU	INDP12WT
PERT	COMER, R.	MTG	INDP12WT
PECT	ABBUTT, J.	SCG	INDP12WT
PECT	MOORE, J.	SCG	INDP12WT
PEAT	CRAMPTON, P.	SGG	INDP12WT
PEAT	BONGARD, R.	SGG	INDP12WT
PES	CHAO, B.	SIO	INDP12WT
PE	EMMEL, F.	GRD	INDP12WT
PE	HOLMES, G.	SIX	INDP12WT
PE	HUCKABAY, W.	SIX	INDP12WT
PEXN	JULIAR	SIX	INDP12WT
PES	KIECKHEFER, R.	SIO	INDP12WT
PE	LAWVER, L.	MPL	INDP12WT
PES	MOORE, G.	SIX	INDP12WT
PES	RAMSEY, C.	SIO	INDP12WT
PEXN	SJAIFUDDIN	SIX	INDP12WT
PEXN	SUGIARTA	SIX	INDP12WT

*** 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 - STUART SMITH (EXT.2752)				
*** LOG BOOKS ***									
950	24 377			LBUW B	UNDERWAY WATCH LOG 1	JRC	7 413N	98 135E S	INDP12WT
1315	8 477			LBUW E	UNDERWAY WATCH LOG 1	JRC	0 125N	97 258E S	INDP12WT
1320	8 477			LBUW B	UNDERWAY WATCH LOG 2	JRC	0 120N	97 261E S	INDP12WT
0	10 477			LBUW E	UNDERWAY WATCH LOG 2	JRC	0 596S	100 157E S	INDP12WT
*** FATHUGRAMS ***									
950	24 377			DPR3 B	3.5KHZ GDR ROLL 01	GDC	7 413N	98 135E S	INDP12WT
438	25 377			DPR3 E	3.5KHZ GDR ROLL 01	GDC	5 545N	96 95E S	INDP12WT
442	25 377			DPR3 B	3.5KHZ GDR ROLL 02	GDC	5 541N	96 89E S	INDP12WT
1944	25 377			DPR3 E	3.5KHZ GDR ROLL 02	GDC	6 294N	94 434E S	INDP12WT
1950	25 377			DPR3 B	3.5KHZ GDR ROLL 03	GDC	6 288N	94 440E S	INDP12WT
1940	26 377			DPR3 E	3.5KHZ GDR ROLL 03	GDC	3 417N	94 356E S	INDP12WT
1949	26 377			DPR3 B	3.5KHZ GDR ROLL 04	GDC	3 404N	94 354E S	INDP12WT
15	28 377			DPR3 E	3.5KHZ GDR ROLL 04	GDC	0 599N	96 15E S	INDP12WT
22	28 377			DPR3 B	3.5KHZ GDR ROLL 05	GDC	1 1N	96 18E S	INDP12WT
101	29 377			DPR3 E	3.5KHZ GDR ROLL 05	GDC	0 233N	96 417E S	INDP12WT
110	29 377			DPR3 B	3.5KHZ GDR ROLL 06	GDC	0 237N	96 426E S	INDP12WT
1335	29 377			DPR3 E	3.5KHZ GDR ROLL 06	GDC	0 323N	97 269E S	INDP12WT
1336	29 377			DPR3 B	3.5KHZ GDR ROLL 07	GDC	0 322N	97 268E S	INDP12WT
1314	30 377			DPR3 E	3.5KHZ GDR ROLL 07	GDC	0 308N	97 595E S	INDP12WT
1320	30 377			DPR3 B	3.5KHZ GDR ROLL 08	GDC	0 312N	97 600E S	INDP12WT
2121	30 377			DPR3 E	3.5KHZ GDR ROLL 08	GDC	1 24N	98 387E S	INDP12WT
2136	30 377			DPR3 B	3.5KHZ GDR ROLL 09	GDC	1 31N	98 401E S	INDP12WT
1945	31 377			DPR3 E	3.5KHZ GDR ROLL 09	GDC	0 141S	97 7E S	INDP12WT
1946	31 377			DPR3 B	3.5KHZ GDR ROLL 10	GDC	0 140S	97 7E S	INDP12WT
2330	31 377			DPR3 E	3.5KHZ GDR ROLL 10	GDC	0 121S	97 23E S	INDP12WT
2338	31 377			DPR3 B	3.5KHZ GDR ROLL 11	GDC	0 112S	97 28E S	INDP12WT
2329	1 477			DPR3 E	3.5KHZ GDR ROLL 11	GDC	0 123N	97 162E S	INDP12WT
2330	1 477			DPR3 B	3.5KHZ GDR ROLL 12	GDC	0 123N	97 163E S	INDP12WT
1310	2 477			DPR3 E	3.5KHZ GDR ROLL 12	GDC	0 174N	97 189E S	INDP12WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1314	2 477				DPR3 B 3.5KHZ GDR ROLL 13	GDC	0 171N	97 190E	S INDP12WT
2232	2 477				DPR3 E 3.5KHZ GDR ROLL 13	GDC	0 24S	97 135E	S INDP12WT
2236	2 477				DPR3 B 3.5KHZ GDR ROLL 14	GDC	0 28S	97 136E	S INDP12WT
1109	3 477				DPR3 E 3.5KHZ GDR ROLL 14	GDC	0 141N	97 210E	S INDP12WT
1110	3 477				DPR3 B 3.5KHZ GDR ROLL 15	GDC	0 141N	97 210E	S INDP12WT
926	4 477				DPR3 E 3.5KHZ GDR ROLL 15	GDC	0 82N	97 106E	S INDP12WT
940	4 477				DPR3 B 3.5KHZ GDR ROLL 16	GDC	0 83N	97 105E	S INDP12WT
2322	4 477				DPR3 E 3.5KHZ GDR ROLL 16	GDC	0 81N	97 141E	S INDP12WT
2323	4 477				DPR3 B 3.5KHZ GDR ROLL 17	GDC	0 81N	97 141E	S INDP12WT
901	5 477				DPR3 E 3.5KHZ GDR ROLL 17	GDC	0 85N	97 176E	S INDP12WT
937	5 477				DPR3 B 3.5KHZ GDR ROLL 18	GDC	0 88N	97 171E	S INDP12WT
2149	5 477				DPR3 E 3.5KHZ GDR ROLL 18	GDC	0 70S	97 67E	S INDP12WT
2154	5 477				DPR3 B 3.5KHZ GDR ROLL 19	GDC	0 72S	97 62E	S INDP12WT
125	6 477				DPR3 E 3.5KHZ GDR ROLL 19	GDC	0 75S	97 15E	S INDP12WT
153	6 477				DPR3 B 3.5KHZ GDR ROLL 20	GDC	0 74S	97 14E	S INDP12WT
2037	6 477				DPR3 E 3.5KHZ GDR ROLL 20	GDC	0 75S	97 5E	S INDP12WT
2054	6 477				DPR3 B 3.5KHZ GDR ROLL 21	GDC	0 72S	97 1E	S INDP12WT
818	7 477				DPR3 E 3.5KHZ GDR ROLL 21	GDC	0 544N	96 361E	S INDP12WT
837	7 477				DPR3 B 3.5KHZ GDR ROLL 22	GDC	0 545N	96 361E	S INDP12WT
2034	7 477				DPR3 E 3.5KHZ GDR ROLL 22	GDC	0 328N	96 543E	S INDP12WT
2325	7 4 77				DPR3 B 3.5KHZ GDR ROLL22A	GDC	0 128N	96 458E	F INDP12WT
0509	8 4 77				DPR3 E 3.5KHZ GDR ROLL22A	GDC	0 167N	96 526E	F INDP12WT
509	8 477				DPR3 B 3.5KHZ GDR ROLL 23	GDC	0 167N	96 526E	S INDP12WT
2034	8 477				DPR3 E 3.5KHZ GDR ROLL 23	GDC	0 340S	97 239E	S INDP12WT
2034	8 477				DPR3 B 3.5KHZ GDR ROLL 24	GDC	0 340S	97 239E	S INDP12WT
1058	9 477				DPR3 E 3.5KHZ GDR ROLL 24	GDC	0 519S	98 521E	S INDP12WT
1101	9 477				DPR3 B 3.5KHZ GDR ROLL 25	GDC	0 520S	98 525E	S INDP12WT
0	10 477				DPR3 E 3.5KHZ GDR ROLL 25	GDC	0 596S	100 157E	S INDP12WT
735	7 477				DPRT B 12KHZ GDR ROLL 01	GDC	0 539N	96 362E	S INDP12WT
2341	7 477				DPRT E 12KHZ GDR ROLL 01	GDC	0 122N	96 455E	S INDP12WT
2343	7 477				DPRT B 12KHZ GDR ROLL 02	GDC	0 121N	96 454E	S INDP12WT
509	8 477				DPRT E 12KHZ GDR ROLL 02	GDC	0 167N	96 526E	S INDP12WT
*** MAGNETOMETER ***									
1118	24 377				MGR B MAGNETICS R-01	GDC	7 365N	98 29E	S INDP12WT
1210	7 477				MGR E MAGNETICS R-01	GDC	0 587N	96 477E	S INDP12WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE		SAMPLE IDENT.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
1219	7 477			MGR	B	MAGNETICS R-02	GDC	0 590N	96 486E	S	INDP12WT
2237	9 477			MGR	E	MAGNETICS R-02	GDC	0 583S	100 70E	S	INDP12WT
*** NAVIGATION PLOTS ***											
900	24 377			NVCP	B	COMPUTER DR PLOT 01	GDC	7 413N	98 135E	S	INDP12WT
900	27 377			NVCP	E	COMPUTER DR PLOT 01	GDC	1 475N	94 389E	S	INDP12WT
900	27 377			NVCP	B	COMPUTER DR PLOT 02	GDC	1 475N	94 389E	S	INDP12WT
1800	27 377			NVCP	E	COMPUTER DR PLOT 02	GDC	1 24N	95 314E	S	INDP12WT
1830	27 377			NVCP	B	COMPUTER DR PLOT 03	GDC	1 27N	95 367E	S	INDP12WT
230	31 377			NVCP	E	COMPUTER DR PLOT 03	GDC	0 437N	98 376E	S	INDP12WT
230	31 377			NVCP	B	COMPUTER DR PLOT 04	GDC	0 437N	98 376E	S	INDP12WT
400	1 477			NVCP	E	COMPUTER DR PLOT 04	GDC	0 119N	97 231E	S	INDP12WT
400	1 477			NVCP	B	COMPUTER DR PLOT 05	GDC	0 119N	97 231E	S	INDP12WT
1715	5 477			NVCP	E	COMPUTER DR PLOT 05	GDC	0 34N	97 163E	S	INDP12WT
1800	5 477			NVCP	B	COMPUTER DR PLOT 06	GDC	0 32N	97 166E	S	INDP12WT
815	9 477			NVCP	E	COMPUTER DR PLOT 06	GDC	0 511S	98 308E	S	INDP12WT
830	9 477			NVCP	B	COMPUTER DR PLOT 07	GDC	0 513S	98 328E	S	INDP12WT
100	10 477			NVCP	E	COMPUTER DR PLOT 07	GDC	0 596S	100 157E	S	INDP12WT
GRAVIMETRIC RECORDS CURATOR L.M. DORMAN (EXT.2406)											
950	24 377			GVR	B	GRAV ANALOGUE R-01	LMD	7 413N	98 135E	S	INDP12WT
1407	3 477			GVR	E	GRAV ANALOGUE R-01	LMD	0 155N	97 214E	S	INDP12WT
1440	3 477			GVR	B	GRAV ANALOGUE R-02	LMD	0 157N	97 216E	S	INDP12WT
0	10 477			GVR	E	GRAV ANALOGUE R-02	LMD	0 596S	100 157E	S	INDP12WT
950	24 377			GVXR	B	GRAV XCOUPLE R-01	LMD	7 413N	98 135E	S	INDP12WT
500	30 377			GVXR	E	GRAV XCOUPLE R-01	LMD	0 15N	97 182E	S	INDP12WT
505	30 377			GVXR	B	GRAV XCOUPLE R-02	LMD	0 18N	97 187E	S	INDP12WT
0	10 477			GVXR	E	GRAV XCOUPLE R-02	LMD	0 596S	100 157E	S	INDP12WT
*** SEISMIC REFRACTION STATION ***											
1550	27 377			SRST	B	REFRACTION STA 12-1	DDM	1 9N	95 82E	S	INDP12WT
1830	27 377			SRST	E	REFRACTION STA 12-1	DDM	1 27N	95 367E	S	INDP12WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** SEISMIC REFLECTION PROFILES ***									
1109	24 377			SPRF B	AIRGUN 2-SEC R-01	GDC	7 370N	98 42E S	INDP12WT
2305	25 377			SPRF E	AIRGUN 2-SEC R-01	GDC	6 162N	95 29E S	INDP12WT
338	26 377			SPRF B	AIRGUN 2-SEC R-02	GDC	5 523N	95 192E S	INDP12WT
457	27 377			SPRF E	AIRGUN 2-SEC R-02	GDC	2 251N	94 242E S	INDP12WT
459	27 377			SPRF B	AIRGUN 2-SEC R-03	GDC	2 250N	94 242E S	INDP12WT
1416	27 377			SPRF E	AIRGUN 2-SEC R-03	GDC	0 598N	95 32E S	INDP12WT
1430	27 377			SPRF B	AIRGUN 2-SEC R-04	GDC	0 599N	95 38E S	INDP12WT
16	29 377			SPRF E	AIRGUN 2-SEC R-04	GDC	0 213N	96 374E S	INDP12WT
17	29 377			SPRF B	AIRGUN 2-SEC R-05	GDC	0 213N	96 375E S	INDP12WT
2251	29 377			SPRF E	AIRGUN 2-SEC R-05	GDC	0 71S	96 502E S	INDP12WT
2252	29 377			SPRF B	AIRGUN 2-SEC R-06	GDC	0 72S	96 502E S	INDP12WT
2220	30 377			SPRF E	AIRGUN 2-SEC R-06	GDC	1 47N	98 443E S	INDP12WT
37	31 377			SPRF B	AIRGUN 2-SEC R-07	GDC	0 582N	98 490E S	INDP12WT
400	1 477			SPRF E	AIRGUN 2-SEC R-07	GDC	0 119N	97 231E S	INDP12WT
1845	5 477			SPRF B	AIRGUN 2-SEC R-08	GDC	0 23N	97 173E S	INDP12WT
658	7 477			SPRF E	AIRGUN 2-SEC R-08	GDC	0 535N	96 382E S	INDP12WT
1039	7 477			SPRF B	AIRGUN 2-SEC R-09	GDC	0 559N	96 369E S	INDP12WT
2332	7 477			SPRF E	AIRGUN 2-SEC R-09	GDC	0 128N	96 458E S	INDP12WT
322	8 477			SPRF B	AIRGUN 2-SEC R-10	GDC	0 134N	96 438E S	INDP12WT
2200	8 477			SPRF E	AIRGUN 2-SEC R-10	GDC	0 445S	97 199E S	INDP12WT
2205	8 477			SPRF B	AIRGUN 2-SEC R-11	GDC	0 446S	97 204E S	INDP12WT
2237	9 477			SPRF E	AIRGUN 2-SEC R-11	GDC	0 583S	100 70E S	INDP12WT
52	1 477			SPRF B	AIRGUN 3-SEC R-01	GDC	0 40S	97 93E S	INDP12WT
400	1 477			SPRF E	AIRGUN 3-SEC R-01	GDC	0 119N	97 231E S	INDP12WT
1342	1 477			SPRF B	AIRGUN 3-SEC R-02	GDC	0 92N	97 135E S	INDP12WT
118	2 477			SPRF E	AIRGUN 3-SEC R-02	GDC	0 176N	97 249E S	INDP12WT
120	2 477			SPRF B	AIRGUN 3-SEC R-03	GDC	0 178N	97 249E S	INDP12WT
558	3 477			SPRF E	AIRGUN 3-SEC R-03	GDC	0 134N	97 224E S	INDP12WT
1109	24 377			SPRS B	AIRGUN 5-SEC R-01	GDC	7 370N	98 42E S	INDP12WT
2305	25 377			SPRS E	AIRGUN 5-SEC R-01	GDC	6 162N	95 29E S	INDP12WT
338	26 377			SPRS B	AIRGUN 5-SEC R-02	GDC	5 523N	95 192E S	INDP12WT
457	27 377			SPRS E	AIRGUN 5-SEC R-02	GDC	2 251N	94 242E S	INDP12WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
459	27 377			SPRS	B AIRGUN 5-SEC R-03	GDC	2 25ON	94 242E	S INDP12WT
1416	27 377			SPRS	E AIRGUN 5-SEC R-03	GDC	0 598N	95 32E	S INDP12WT
1430	27 377			SPRS	B AIRGUN 5-SEC R-04	GDC	0 599N	95 38E	S INDP12WT
16	29 377			SPRS	E AIRGUN 5-SEC R-04	GDC	0 213N	96 374E	S INDP12WT
17	29 377			SPRS	B AIRGUN 5-SEC R-05	GDC	0 213N	96 375E	S INDP12WT
2251	29 377			SPRS	E AIRGUN 5-SEC R-05	GDC	0 71S	96 502E	S INDP12WT
2252	29 377			SPRS	B AIRGUN 5-SEC R-06	GDC	0 72S	96 502E	S INDP12WT
2220	30 377			SPRS	E AIRGUN 5-SEC R-06	GDC	1 47N	98 443E	S INDP12WT
37	31 377			SPRS	B AIRGUN 5-SEC R-07	GDC	0 582N	98 490E	S INDP12WT
400	31 377			SPRS	E AIRGUN 5-SEC R-07	GDC	0 339N	98 255E	S INDP12WT
1342	31 377			SPRS	B AIRGUN 5-SEC R-08	GDC	0 166S	97 184E	S INDP12WT
118	2 477			SPRS	E AIRGUN 5-SEC R-08	GDC	0 176N	97 249E	S INDP12WT
120	2 477			SPRS	B AIRGUN 5-SEC R-09	GDC	0 178N	97 249E	S INDP12WT
558	3 477			SPRS	E AIRGUN 5-SEC R-09	GDC	0 134N	97 224E	S INDP12WT
1845	5 477			SPRS	B AIRGUN 5-SEC R-10	GDC	0 23N	97 173E	S INDP12WT
658	7 477			SPRS	E AIRGUN 5-SEC R-10	GDC	0 535N	96 382E	S INDP12WT
1039	7 477			SPRS	B AIRGUN 5-SEC R-11	GDC	0 559N	96 369E	S INDP12WT
2332	7 477			SPRS	E AIRGUN 5-SEC R-11	GDC	0 128N	96 458E	S INDP12WT
322	8 477			SPRS	B AIRGUN 5-SEC R-12	GDC	0 134N	96 438E	S INDP12WT
2200	8 477			SPRS	E AIRGUN 5-SEC R-12	GDC	0 445S	97 199E	S INDP12WT
2205	8 477			SPRS	B AIRGUN 5-SEC R-13	GDC	0 446S	97 204E	S INDP12WT
2237	9 477			SPRS	E AIRGUN 5-SEC R-13	GDC	0 583S	100 70E	S INDP12WT
220	31 377			SPRS	B AIRGUN 10-SEC R-01	GDC	0 447N	98 390E	S INDP12WT
1934	31 377			SPRS	E AIRGUN 10-SEC R-01	GDC	0 143S	96 600E	S INDP12WT
1035	7 477			SPRS	B AIRGUN 10-SEC R-02	GDC	0 558N	96 365E	S INDP12WT
2332	7 477			SPRS	E AIRGUN 10-SEC R-02	GDC	0 128N	96 458E	S INDP12WT
WIDE ANGLE SEISMIC REFLECTION									
224	25 377			SPWA	INDP1201A	DDM	6 12ON	96 222E	S INDP12WT
356	25 377			SPWA	INDP1202A	DDM	5 584N	96 157E	S INDP12WT
1432	27 377			SPWA	INDP1204A	DDM	0 600N	95 39E	S INDP12WT
1433	27 377			SPWA	INDP1204B	DDM	0 600N	95 39E	S INDP12WT
1435	27 377			SPWA	INDP1204C	DDM	1 0N	95 41E	S INDP12WT
1526	27 377			SPWA	INDP1204D	DDM	1 6N	95 40E	S INDP12WT
1639	27 377			SPWA	INDP1204E	DDM	1 14N	95 170E	S INDP12WT
1733	27 377			SPWA	INDP1204F	DDM	1 20N	95 266E	S INDP12WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.		DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1733	27 377			SPWA	INDP1204G		DDM	1 20N	95 266E S	INDP12WT
1845	30 377			SPWA	INDP1205A		DDM	0 525N	98 259E S	INDP12WT
2042	30 377			SPWA	INDP1205B		DDM	1 1N	98 353E S	INDP12WT
1337	2 477			SPWA	INDP1207A		DDM	0 148N	97 195E S	INDP12WT
1950	2 477			SPWA	INDP1208A		DDM	0 135N	97 110E S	INDP12WT
2056	2 477			SPWA	INDP1208B		DDM	0 72N	97 124E S	INDP12WT
1111	8 477			SPWA	INDP1210A		DDM	0 240N	97 201E S	INDP12WT
1246	9 477			SPWA	INDP1211A		DDM	0 463S	99 26E S	INDP12WT
1351	9 477			SPWA	INDP1211B		DDM	0 428S	99 93E S	INDP12WT
1519	9 477			SPWA	INDP1211C		DDM	0 381S	99 203E S	INDP12WT
1843	9 477			SPWA	INDP1212A		DDM	0 418S	99 428E S	INDP12WT
1948	9 477			SPWA	INDP1212B		DDM	0 484S	99 485E S	INDP12WT
MULTI-CHANNEL SEISMIC LINE										
217	28 377			SPML B	M.CHAN.SEIS.LINE	01	SCG	1 25N	96 72E S	INDP12WT
2217	30 377			SPML E	M.CHAN.SEIS.LINE	01	SCG	1 46N	98 440E S	INDP12WT
MULTI-CHANNEL DIGITAL SEISMIC TAPE										
217	28 377			SPMT B	SEISMIC TAPE	1	SCG	1 25N	96 72E S	INDP12WT
501	28 377			SPMT E	SEISMIC TAPE	1	SCG	1 66N	96 209E S	INDP12WT
503	28 377			SPMT B	SEISMIC TAPE	2	SCG	1 67N	96 211E S	INDP12WT
752	28 377			SPMT E	SEISMIC TAPE	2	SCG	1 119N	96 397E S	INDP12WT
754	28 377			SPMT B	SEISMIC TAPE	3	SCG	1 120N	96 399E S	INDP12WT
1044	28 377			SPMT E	SEISMIC TAPE	3	SCG	1 146N	96 575E S	INDP12WT
1046	28 377			SPMT B	SEISMIC TAPE	4	SCG	1 146N	96 576E S	INDP12WT
1334	28 377			SPMT E	SEISMIC TAPE	4	SCG	1 35N	97 98E S	INDP12WT
1336	28 377			SPMT B	SEISMIC TAPE	5	SCG	1 33N	97 98E S	INDP12WT
1624	28 377			SPMT E	SEISMIC TAPE	5	SCG	0 518N	96 574E S	INDP12WT
1626	28 377			SPMT B	SEISMIC TAPE	6	SCG	0 516N	96 572E S	INDP12WT
1904	28 377			SPMT E	SEISMIC TAPE	6	SCG	0 407N	96 448E S	INDP12WT
1906	28 377			SPMT B	SEISMIC TAPE	7	SCG	0 405N	96 447E S	INDP12WT
2155	28 377			SPMT E	SEISMIC TAPE	7	SCG	0 298N	96 303E S	INDP12WT
2156	28 377			SPMT B	SEISMIC TAPE	8	SCG	0 297N	96 303E S	INDP12WT
41	29 377			SPMT E	SEISMIC TAPE	8	SCG	0 222N	96 398E S	INDP12WT
45	29 377			SPMT B	SEISMIC TAPE	9	SCG	0 224N	96 402E S	INDP12WT
333	29 377			SPMT E	SEISMIC TAPE	9	SCG	0 310N	96 549E S	INDP12WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
335	29 377			SPMT B	SEISMIC TAPE 10	SCG	0 311N	96 551E S	INDP12WT
614	29 377			SPMT E	SEISMIC TAPE 10	SCG	0 394N	97 90E S	INDP12WT
616	29 377			SPMT B	SEISMIC TAPE 11	SCG	0 395N	97 92E S	INDP12WT
905	29 377			SPMT E	SEISMIC TAPE 11	SCG	0 468N	97 247E S	INDP12WT
907	29 377			SPMT B	SEISMIC TAPE 12	SCG	0 469N	97 249E S	INDP12WT
1154	29 377			SPMT E	SEISMIC TAPE 12	SCG	0 398N	97 337E S	INDP12WT
1156	29 377			SPMT B	SEISMIC TAPE 13	SCG	0 396N	97 336E S	INDP12WT
1449	29 377			SPMT E	SEISMIC TAPE 13	SCG	0 269N	97 219E S	INDP12WT
1451	29 377			SPMT B	SEISMIC TAPE 14	SCG	0 267N	97 217E S	INDP12WT
1739	29 377			SPMT E	SEISMIC TAPE 14	SCG	0 149N	97 115E S	INDP12WT
1741	29 377			SPMT B	SEISMIC TAPE 15	SCG	0 148N	97 114E S	INDP12WT
2032	29 377			SPMT E	SEISMIC TAPE 15	SCG	0 31N	97 1E S	INDP12WT
2034	29 377			SPMT B	SEISMIC TAPE 16	SCG	0 30N	96 599E S	INDP12WT
2326	29 377			SPMT E	SEISMIC TAPE 16	SCG	0 104S	96 514E S	INDP12WT
2332	29 377			SPMT B	SEISMIC TAPE 17	SCG	0 109S	96 517E S	INDP12WT
220	30 377			SPMT E	SEISMIC TAPE 17	SCG	0 75S	97 51E S	INDP12WT
222	30 377			SPMT B	SEISMIC TAPE 18	SCG	0 74S	97 52E S	INDP12WT
510	30 377			SPMT E	SEISMIC TAPE 18	SCG	0 21N	97 191E S	INDP12WT
512	30 377			SPMT B	SEISMIC TAPE 19	SCG	0 22N	97 193E S	INDP12WT
758	30 377			SPMT E	SEISMIC TAPE 19	SCG	0 125N	97 333E S	INDP12WT
801	30 377			SPMT B	SEISMIC TAPE 20	SCG	0 127N	97 335E S	INDP12WT
1052	30 377			SPMT E	SEISMIC TAPE 20	SCG	0 222N	97 477E S	INDP12WT
1054	30 377			SPMT B	SEISMIC TAPE 21	SCG	0 224N	97 479E S	INDP12WT
1345	30 377			SPMT E	SEISMIC TAPE 21	SCG	0 327N	98 21E S	INDP12WT
1347	30 377			SPMT B	SEISMIC TAPE 22	SCG	0 328N	98 22E S	INDP12WT
1637	30 377			SPMT E	SEISMIC TAPE 22	SCG	0 433N	98 162E S	INDP12WT
1639	30 377			SPMT B	SEISMIC TAPE 23	SCG	0 434N	98 164E S	INDP12WT
1926	30 377			SPMT E	SEISMIC TAPE 23	SCG	0 556N	98 291E S	INDP12WT
1928	30 377			SPMT B	SEISMIC TAPE 24	SCG	0 557N	98 292E S	INDP12WT
2217	30 377			SPMT E	SEISMIC TAPE 24	SCG	1 46N	98 440E S	INDP12WT
HEAT FLUW									
2230	27 377			HF2M	HEAT FLOW 12-03 4836	LAW	0 596N	96 16E S	INDP12WT
2120	31 377			HF2M	HEAT FLUW 12-04 5247	LAW	0 137S	97 6E S	INDP12WT
2200	3 477			HF2M	HEAT FLOW 12-05 3107	LAW	0 141N	97 189E S	INDP12WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.		DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
40	4 477			HF2M	HEAT FLOW 12-06 3118		LAW	0 161N	97 182E S	INDP12WT
2220	4 477			HF2M	HEAT FLOW 12-07 3340		LAW	0 82N	97 141E S	INDP12WT
100	5 477			HF2M	HEAT FLOW 12-08 3312		LAW	0 80N	97 149E S	INDP12WT
1740	5 477			HF2M	HEAT FLOW 12-09 3014		LAW	0 34N	97 164E S	INDP12WT
10	6 477			HF2M	HEAT FLOW 12-10 5289		LAW	0 79S	97 15E S	INDP12WT
850	7 477			HF2M	HEAT FLOW 12-11 5235		LAW	0 546N	96 361E S	INDP12WT
130	8 477			HF2M	HEAT FLOW 12-12 5167		LAW	0 124N	96 443E S	INDP12WT
*** SURFACE NET ***										
126	28 377			SNNU B	H		MIC	1 14N	96 46E S	INDP12WT
136	28 377			SNNU E	H		MIC	1 16N	96 51E S	INDP12WT
2322	30 377			SNNU B	H		MIC	1 13N	98 483E S	INDP12WT
2332	30 377			SNNU E	H		MIC	1 8N	98 483E S	INDP12WT
SEISMIC RECEIVING BUOY										
315	6 477			BUSR B	BUOY A	2804	DDM	0 65S	96 596E S	INDP12WT
2105	6 477			BUSR E	BUOY A	2804	DDM	0 70S	96 600E S	INDP12WT
1222	6 477			BUSR B	BUOY E	2780	DDM	0 541N	96 362E S	INDP12WT
730	7 477			BUSR E	BUOY E	2780	DDM	0 539N	96 363E S	INDP12WT
*** CORES ***										
915	3 477			COP	INDP39 12-1	2940M	GCR	0 140N	97 204E S	INDP12WT
915	3 477			COPG	INDP39 12-1	2940M	GCR	0 140N	97 204E S	INDP12WT
1312	3 477			COP	INDP40 12-2	2805M	GCR	0 151N	97 211E S	INDP12WT
1312	3 477			COPG	INDP40 12-2	2805M	GCR	0 151N	97 211E S	INDP12WT
1816	3 477			COP	INDP41 12-3	2656M	GCR	0 145N	97 217E S	INDP12WT
1816	3 477			COPG	INDP41 12-3	2656M	GCR	0 145N	97 217E S	INDP12WT
907	4 477			COP	INDP42 12-4	3711M	GCR	0 82N	97 108E S	INDP12WT
907	4 477			COPG	INDP42 12-4	3711M	GCR	0 82N	97 108E S	INDP12WT
1409	4 477			COP	INDP43 12-5		GCR	0 83N	97 107E S	INDP12WT
1409	4 477			COPG	INDP43 12-5		GCR	0 83N	97 107E S	INDP12WT
1848	4 477			COP	INDP44 12-6	3325M	GCR	0 79N	97 123E S	INDP12WT
1848	4 477			COPG	INDP44 12-6	3325M	GCR	0 79N	97 123E S	INDP12WT
450	5 477			COP	INDP45 12-7	3141M	GCR	0 79N	97 176E S	INDP12WT
450	5 477			COPG	INDP45 12-7	3141M	GCR	0 79N	97 176E S	INDP12WT
850	5 477			COP	INDP46 12-8	2994M	GCR	0 85N	97 176E S	INDP12WT
850	5 477			COPG	INDP46 12-8	2994M	GCR	0 85N	97 176E S	INDP12WT
1345	5 477			COP	INDP47 12-9	3197M	GCR	0 84N	97 170E S	INDP12WT
1345	5 477			COPG	INDP47 12-9	3197M	GCR	0 84N	97 170E S	INDP12WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** BATHYTHERMOGRAPH ***									
0	24 377			BTX	NR. SAMPLES = 2	DCP	7 413N	98 135E S	INDP12WT
0	25 377			BTX	NR. SAMPLES = 4	DCP	6 347N	96 296E S	INDP12WT
0	26 377			BTX	NR. SAMPLES = 4	DCP	6 117N	95 54E S	INDP12WT
0	27 377			BTX	NR. SAMPLES = 4	DCP	3 44N	94 305E S	INDP12WT
0	28 377			BTX	NR. SAMPLES = 2	DCP	0 598N	96 16E S	INDP12WT
0	6 477			BTX	NR. SAMPLES = 2	DCP	0 79S	97 16E S	INDP12WT
9900					END SAMPLE INDEX				INDP12WT