COCOTOW EXPEDITION

LEG 4

R/V MELVILLE

INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

Balboa, Panama (20 November 1974)

to

San Diego, California (18 December 1974)

Chief Scientist - R. Anderson

Resident Marine Tech - W. Keith

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 28, 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.

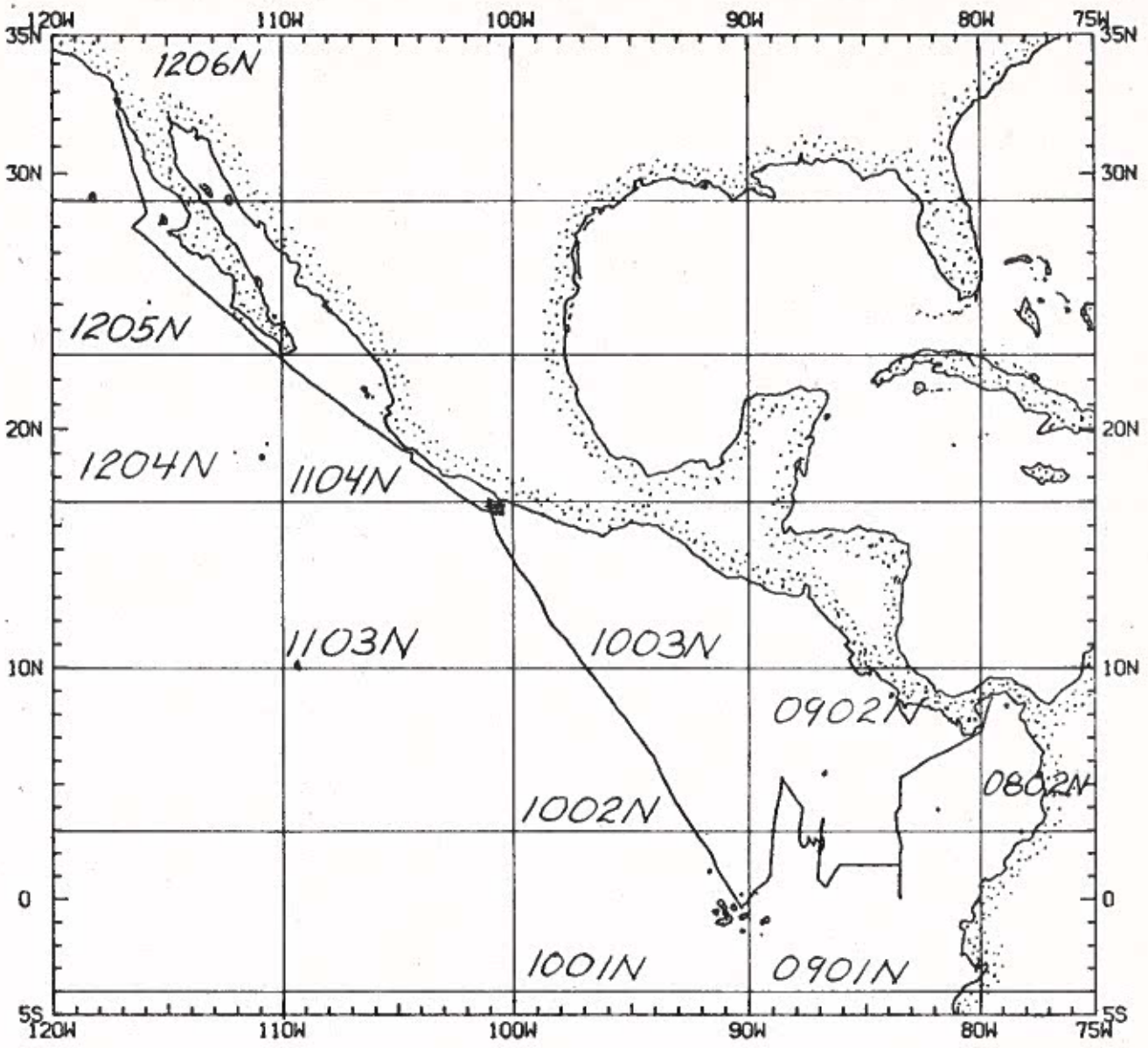
6. Microfilm or Xerox copies of:

   a. Echosounder records - 12 and 3.5 kHz frequency

   b. Subbottom profiler records (airgun)

   c. Magnetometer records

   d. Underway Data Log

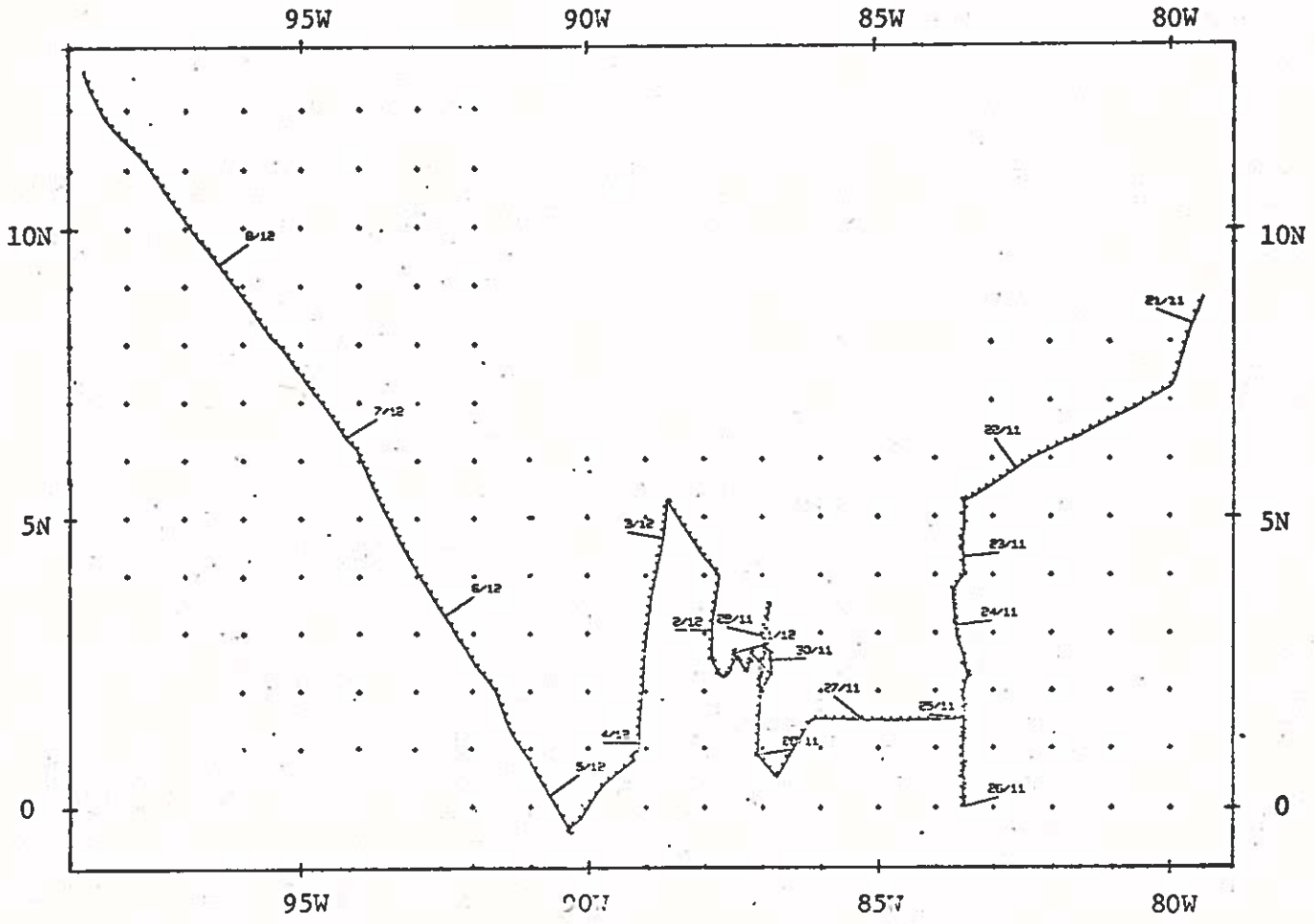


COCOTOW EXPEDITION
LEG 4

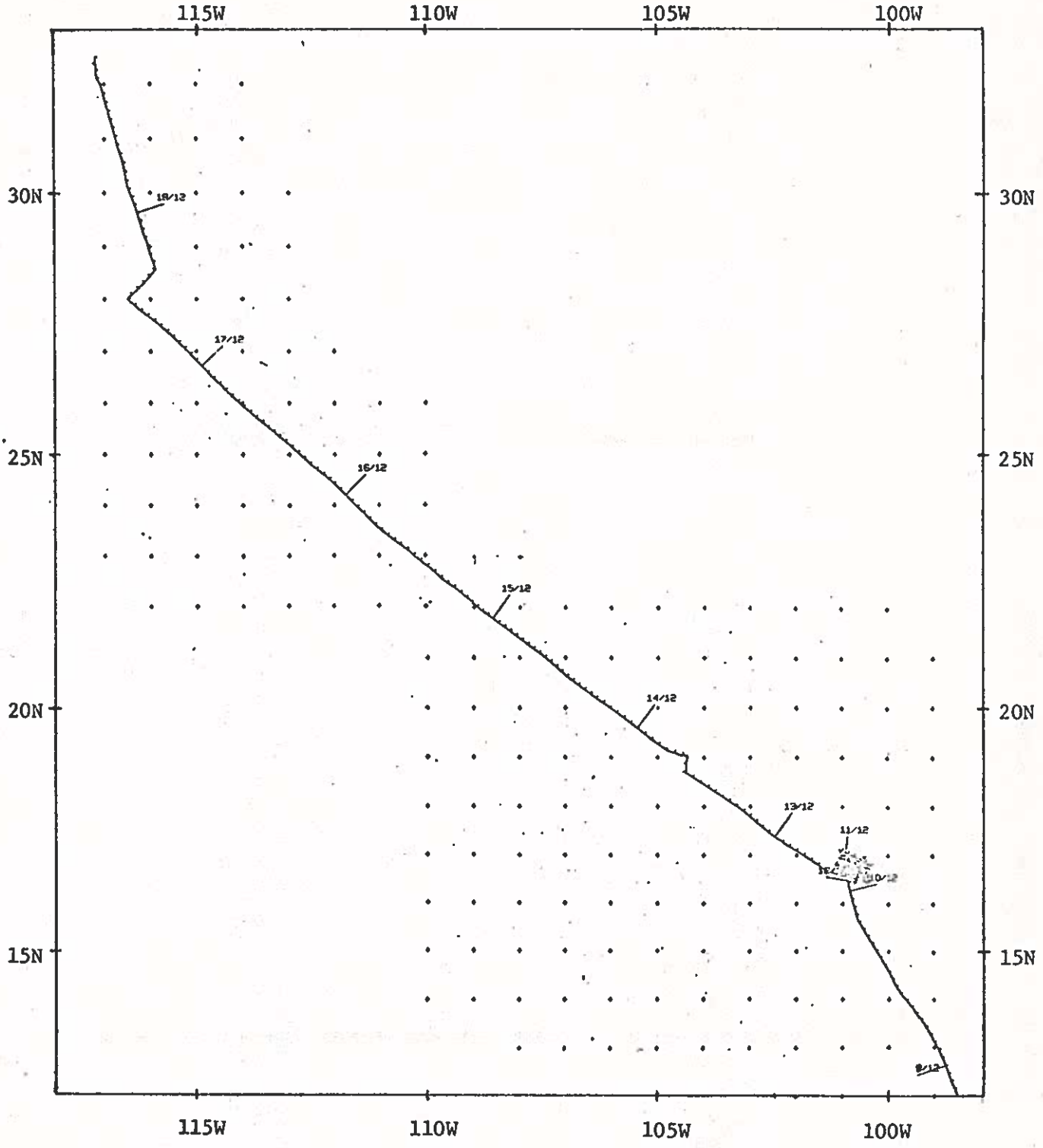
Chief Scientist - R. Anderson
Balboa, Panama - San Diego, California (20 November - 18 December 1974)

TOTAL MILEAGE

1) Cruise - 5238 miles
2) Bathymetry - 5018 miles
3) Magnetics - 4303 miles
4) Seismic Reflection - 4288 miles

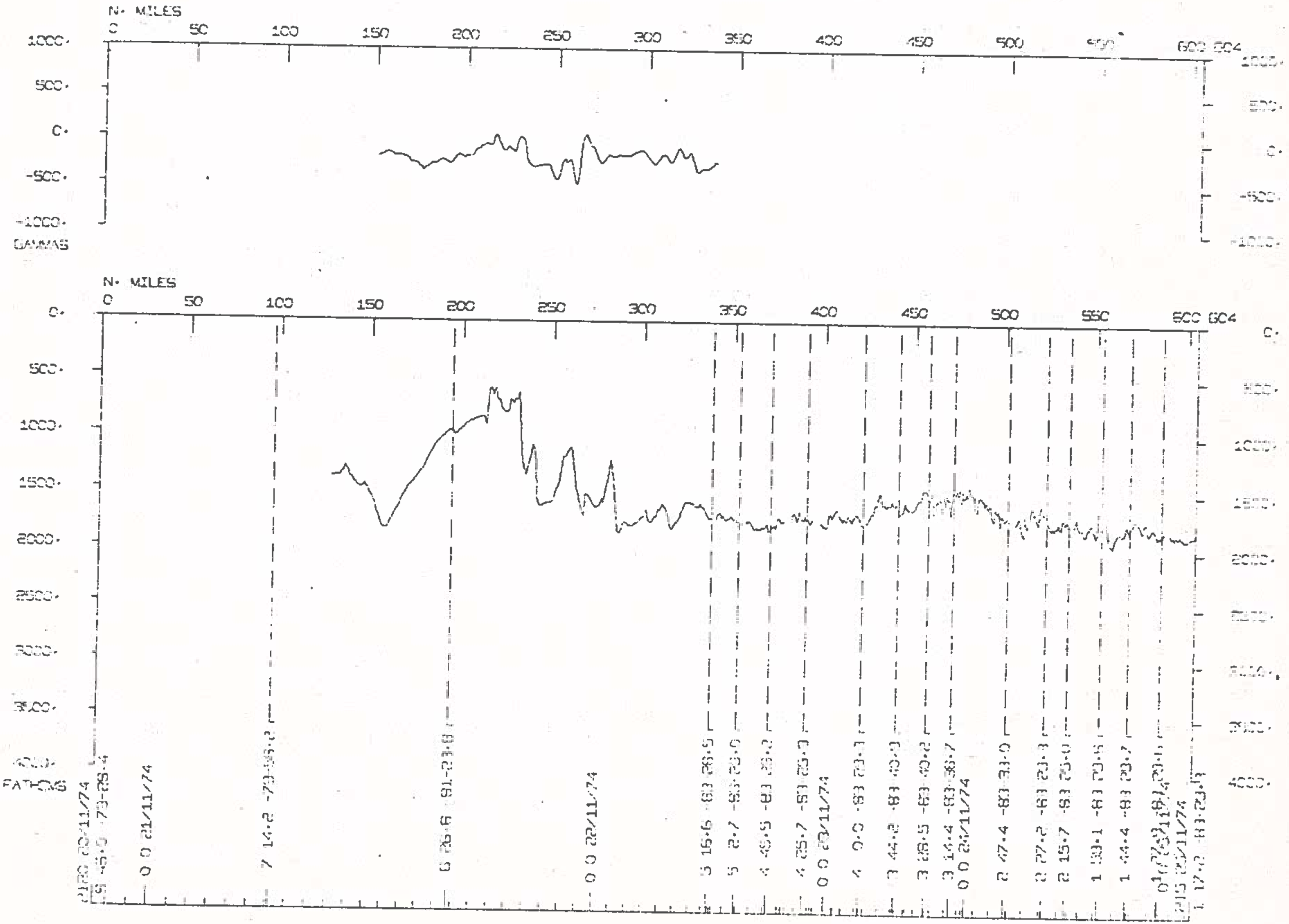


COCOTOW LEG 4 TRACK PLOT (1 of 2)



COCOTOW LEG 4 TRACK PLOT (2 of 2)

BOTTOM LEG 4



[redacted]

COCOTOW LEG 4
N. MILES
GAMMAS
FATHOMS

COCOTOW LEG 4

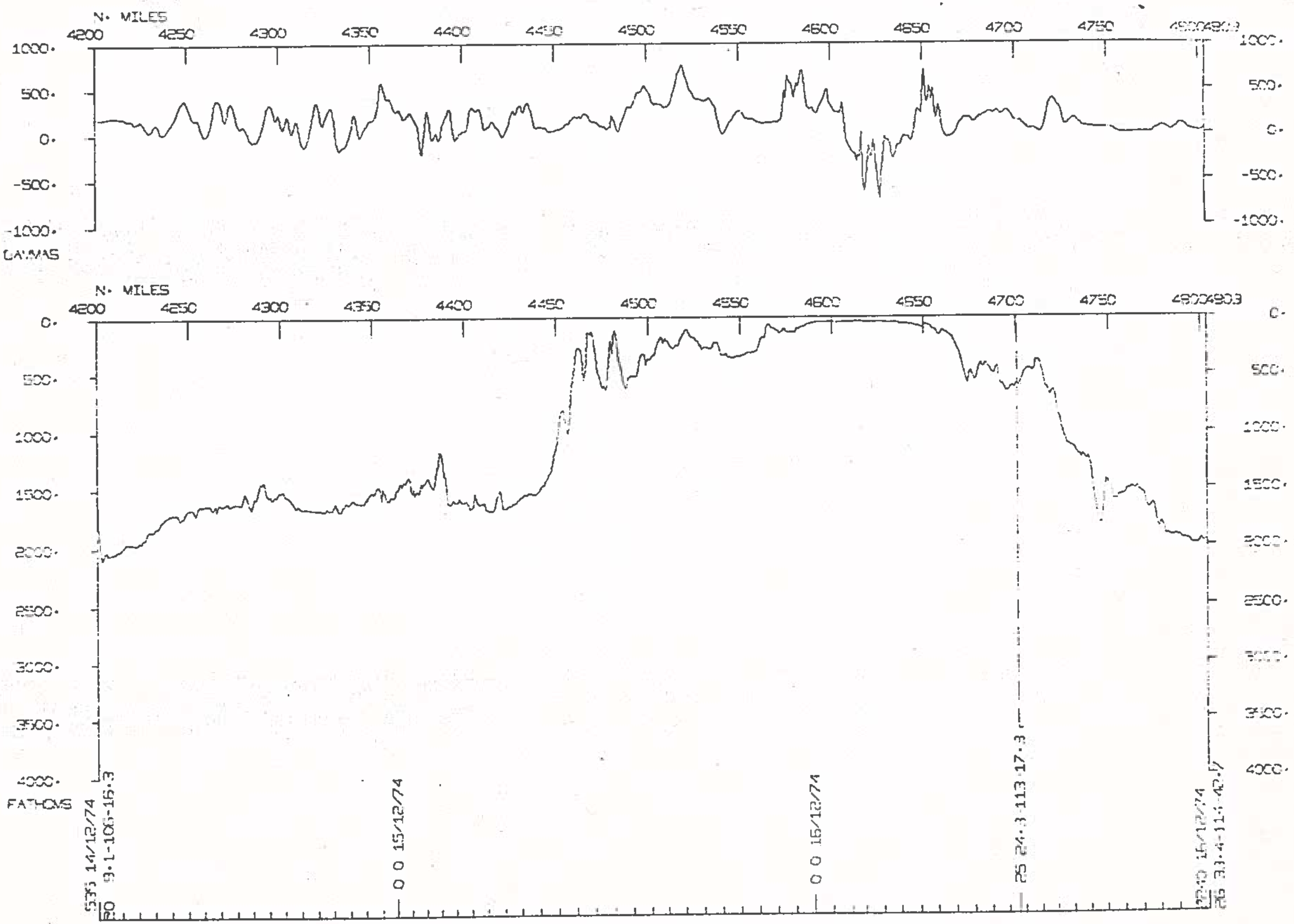
COCOTOW LEG 4
N. MILES
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
FATHOMS
0
500
1000
1500
2000
2500
3000
3500
4000
CANVAS
1000
500
0
-500
-1000

COCOTOW LEG 4
N. MILES
GAMMAS
FATHOMS
[redacted]

COCOTOW LEG. 4
N. MILES
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
1000.
500.
0.
-500.
-1000.
GAMMAS
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
1475 8/12/74
H1 19.7 -97-52.8
0 0 9/12/74
0 0 10/12/74
17 7.5-101 -5.6
16 49.4-100-22.4
16 57.4-101 -6.5
16 43.4-100-24.2
0 0 11/12/74
16 43.7-101-11.0
4 0 11/12/74
16 42.3-100-47.5

COCOTOW LEG. 4
N. MILES
3600
3650
3700
3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4204
1000.
500.
0.
-500.
-1000.
GAMMAS
FATHOMS
16 43.3-103-51.9
16 31.3-100-25.4
16 39.5-101 -1.5
16 51.2-100-33.2
16 56.8 100-31.3
16 30.7-100-41.4
16 23.7-100-24.1
0 0 13/12/74
18 41.4-104-24.1
19 2.7-104-20.9
0 0 14/12/74
20 11.4-105-20.6
0 0 14/12/74

COCOTOW LEG 4



BOTTOM LEG 4
N. MILES
4800
4850
4900
4950
5000
5050
5100
5150
5200
5250
GAMMAS
1000.
500.
0.
-500.
-1000.
FATHOMS
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
0 0 18/12/74
0 0 17/12/74

LISTED 24 JAN. 1975

1955 201174	LG04 B	BALBOA, CANAL ZONE	8	46ON	79	284W	S	CCTW04MV
1700 41274	LGSS B	BALTRA,ST.CRUZ,GALAP	0	266S	90	185W	S	CCTW04MV
2010 41274	LGSS E	BALTRA,ST.CRUZ,GALAP	0	263S	90	180W	S	CCTW04MV
1500 131274	LGUS B	MANZANILLO, MEXICO	19	5N	104	218W	S	CCTW04MV
1700 131274	LGUS E	MANZANILLO, MEXICO	19	24N	104	210W	S	CCTW04MV
2000 181274	LG04 E	SAN DIEGO,CALIFORNIA	32	371N	117	133W	S	CCTW04MV

PERSONNEL

PECS	ANDERSON, R.	LDO	CCTW04MV
PERT	KEITH, W.	MTG	CCTW04MV
PECT	HENRY, A.	SCG	CCTW04MV
PEAT	MCKEE, J.	SGG	CCTW04MV
PEXN	AYALA, L.	JGG	CCTW04MV
PE	CARDWELL, R.	CLO	CCTW04MV
PE	DOWN, C.	MPL	CCTW04MV
PE	KARIG, D.	CLO	CCTW04MV
PE	MOORE, G.	CLO	CCTW04MV
PE	ONGLEY, L.	LDO	CCTW04MV
PE	ROGERS, J.	MPL	CCTW04MV
PE	SCHILT, F.	LDO	CCTW04MV
PE	TREHU, A.	PTU	CCTW04MV
PE	VACQUIER, V.	MPL	CCTW04MV
PE	WALSH, T.	MTG	CCTW04MV

THE FOLLOWING CODES ARE NEW

INOCEANOGRAFICO DE LA ARMADA DEL ECUADOR, GUAYAQUIL, ECUADOR
PTU=PRINCETON UNIVERSITY

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

UNDERWAY DATA - CURATOR T.E. CHASE 2ND FLOOR AQUARIUM (EXT.2182)

***BATHOGRAMS ***

915	211174		DPRT	B	GDR 12KHZ	R-01	GDC	6	572N	80 271W	S CCTW04MV
1620	221174		DPRT	E	GDR 12KHZ	R-01	GDC	4	445N	83 299W	S CCTW04MV
1625	221174		DPRT	B	GDR 12KHZ	R-02	GDC	4	439N	83 300W	S CCTW04MV
753	241174		DPRT	E	GDR 12KHZ	R-02	GDC	2	296N	83 292W	S CCTW04MV
800	241174		DPRT	B	GDR 12KHZ	R-03	GDC	2	289N	83 293W	S CCTW04MV
845	281174		DPRT	E	GDR 12KHZ	R-03	GDC	2	119N	87 1W	S CCTW04MV
1125	281174		DPRT	B	GDR 12KHZ	R-04	GDC	2	287N	86 585W	S CCTW04MV
612	11274		DPRT	E	GDR 12KHZ	R-04	GDC	2	361N	87 280W	S CCTW04MV
613	11274		DPRT	B	GDR 12KHZ	R-05	GDC	2	362N	87 280W	S CCTW04MV
930	41274		DPRT	E	GDR 12KHZ	R-05	GDC	0	251N	89 409W	S CCTW04MV
940	41274		DPRT	B	GDR 12KHZ	R-06	GDC	0	240N	89 421W	S CCTW04MV
216	81274		DPRT	E	GDR 12KHZ	R-06	GDC	9	403N	96 391W	S CCTW04MV
238	81274		DPRT	B	GDR 12KHZ	R-07	GDC	9	432N	96 416W	S CCTW04MV
254	111274		DPRT	E	GDR 12KHZ	R-07	GDC	16	450N	100 583W	S CCTW04MV
256	111274		DPRT	B	GDR 12KHZ	R-08	GDC	16	449N	100 579W	S CCTW04MV
407	141274		DPRT	E	GDR 12KHZ	R-08	GDC	20	9N	106 31W	S CCTW04MV
410	141274		DPRT	B	GDR 12KHZ	R-09	GDC	20	12N	106 35W	S CCTW04MV
411	171274		DPRT	E	GDR 12KHZ	R-09	GDC	27	111N	115 243W	S CCTW04MV
415	171274		DPRT	B	GDR 12KHZ	R-10	GDC	27	116N	115 248W	S CCTW04MV
1755	181274		DPRT	E	GDR 12KHZ	R-10	GDC	32	223N	117 119W	S CCTW04MV
915	211174		DPR3	B	GDR 3.5KHZ	R-01	GDC	6	572N	80 271W	S CCTW04MV
2200	211174		DPR3	E	GDR 3.5KHZ	R-01	GDC	6	004N	82 190W	S CCTW04MV
2227	211174		DPR3	B	GDR 3.5KHZ	R-02	GDC	5	579N	82 225W	S CCTW04MV
1630	241174		DPR3	E	GDR 3.5KHZ	R-02	GDC	1	585N	83 299W	S CCTW04MV
1630	241174		DPR3	B	GDR 3.5KHZ	R-03	GDC	1	585N	83 299W	S CCTW04MV
727	251174		DPR3	E	GDR 3.5KHZ	R-03	GDC	0	595N	83 308W	S CCTW04MV
730	251174		DPR3	B	GDR 3.5KHZ	R-04	GDC	0	594N	83 308W	S CCTW04MV
1000	281174		DPR3	E	GDR 3.5KHZ	R-04	GDC	2	245N	86 589W	S CCTW04MV
1000	281174		DPR3	B	GDR 3.5KHZ	R-05	GDC	2	245N	86 589W	S CCTW04MV
605	11274		DPR3	E	GDR 3.5KHZ	R-05	GDC	2	360N	87 279W	S CCTW04MV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.		DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
606	11274			DPR3 B	GDR 3.5KHZ	R-06	GDC 2	360N	87 279W	S	CCTW04MV
24	41274			DPR3 E	GDR 3.5KHZ	R-06	GDC 1	22N	89 62W	S	CCTW04MV
26	41274			DPR3 B	GDR 3.5KHZ	R-07	GDC 1	19N	89 62W	S	CCTW04MV
411	71274			DPR3 E	GDR 3.5KHZ	R-07	GDC 6	543N	94 346W	S	CCTW04MV
413	71274			DPR3 B	GDR 3.5KHZ	R-08	GDC 6	545N	94 347W	S	CCTW04MV
2200	91274			DPR3 E	GDR 3.5KHZ	R-08	GDC 15	561N	100 459W	S	CCTW04MV
2202	91274			DPR3 B	GDR 3.5KHZ	R-09	GDC 15	564N	100 460W	S	CCTW04MV
2124	121274			DPR3 E	GDR 3.5KHZ	R-09	GDC 17	73N	102 45W	S	CCTW04MV
2127	121274			DPR3 B	GDR 3.5KHZ	R-10	GDC 17	76N	102 50W	S	CCTW04MV
359	161274			DPR3 E	GDR 3.5KHZ	R-10	GDC 24	366N	112 151W	S	CCTW04MV
402	161274			DPR3 B	GDR 3.5KHZ	R-11	GDC 24	369N	112 155W	S	CCTW04MV
1755	181274			DPR3 E	GDR 3.5KHZ	R-11	GDC 32	223N	117 119W	S	CCTW04MV
*** NAVIGATION PLOTS ***											
2120	201174			NVBP B	BRIDGE PLOT	1	GDC 8	460N	79 284W	S	CCTW04MV
1950	231174			NVBP E	BRIDGE PLOT	1	GDC 3	114N	83 400W	S	CCTW04MV
1950	231174			NVBP B	BRIDGE PLOT	2	GDC 3	114N	83 400W	S	CCTW04MV
1438	291174			NVBP E	BRIDGE PLOT	2	GDC 2	2N	87 30W	S	CCTW04MV
1438	291174			NVBP B	BRIDGE PLOT	3	GDC 2	2N	87 30W	S	CCTW04MV
640	21274			NVBP E	BRIDGE PLOT	3	GDC 4	7N	87 446W	S	CCTW04MV
640	21274			NVBP B	BRIDGE PLOT	4	GDC 4	7N	87 446W	S	CCTW04MV
1025	31274			NVBP E	BRIDGE PLOT	4	GDC 3	60N	88 577W	S	CCTW04MV
1025	31274			NVBP B	BRIDGE PLOT	5	GDC 3	60N	88 577W	S	CCTW04MV
2244	51274			NVBP E	BRIDGE PLOT	5	GDC 3	74N	92 240W	S	CCTW04MV
2244	51274			NVBP B	BRIDGE PLOT	6	GDC 3	74N	92 240W	S	CCTW04MV
532	71274			NVBP E	BRIDGE PLOT	6	GDC 7	35N	94 414W	S	CCTW04MV
532	71274			NVBP B	BRIDGE PLOT	7	GDC 7	35N	94 414W	S	CCTW04MV
2050	121274			NVBP E	BRIDGE PLOT	7	GDC 17	43N	101 593W	S	CCTW04MV
2050	121274			NVBP B	BRIDGE PLOT	8	GDC 17	43N	101 593W	S	CCTW04MV
1700	151274			NVBP E	BRIDGE PLOT	8	GDC 23	239N	110 482W	S	CCTW04MV
1700	151274			NVBP B	BRIDGE PLOT	9	GDC 23	239N	110 482W	S	CCTW04MV
2022	171274			NVBP E	BRIDGE PLOT	9	GDC 29	44N	116 42W	S	CCTW04MV
2022	171274			NVBP B	BRIDGE PLOT	10	GDC 29	44N	116 42W	S	CCTW04MV
1750	181274			NVBP E	BRIDGE PLOT	10	GDC 32	219N	117 118W	S	CCTW04MV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.		DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
*** LOG BOOKS ***											
915	211174			LBUW B	UNDERWAY LOG		GDC	6 572N	80 271W	S	CCTW04MV
1755	181274			LBUW E	UNDERWAY LOG		GDC	32 223N	117 119W	S	CCTW04MV
*** MAGNETOMETER ***											
908	211174			MGR B	MAGNETICS	R-01	GDC	6 578N	80 260W	S	CCTW04MV
1140	51274			MGR E	MAGNETICS	R-01	GDC	2 23N	91 381W	S	CCTW04MV
1522	51274			MGR B	MAGNETICS	R-02	GDC	2 44N	91 402W	S	CCTW04MV
1650	141274			MGR E	MAGNETICS	R-02	GDC	21 97N	107 414W	S	CCTW04MV
1705	141274			MGR B	MAGNETICS	R-03	GDC	21 110N	107 433W	S	CCTW04MV
1941	171274			MGR E	MAGNETICS	R-03	GDC	28 581N	116 23W	S	CCTW04MV
1950	171274			MGR B	MAGNETICS	R-04	GDC	28 595N	116 27W	S	CCTW04MV
1750	181274			MGR E	MAGNETICS	R-04	GDC	32 219N	117 118W	S	CCTW04MV
*** SEISMIC REFLECTION PROFILES ***											
915	211174			SPRF B	AIRGUN-RF	R-01	GDC	6 572N	80 271W	S	CCTW04MV
1438	131274			SPRF E	AIRGUN-RF	R-01	GDC	18 600N	104 220W	S	CCTW04MV
1715	131274			SPRF B	AIRGUN-RF	R-02	GDC	19 27N	104 209W	S	CCTW04MV
1748	181274			SPRF E	AIRGUN-RF	R-02	GDC	32 216N	117 118W	S	CCTW04MV
915	211174			SPRS B	AIRGUN-RS	R-01	GDC	6 572N	80 271W	S	CCTW04MV
2040	261174			SPRS E	AIRGUN-RS	R-01	GDC	1 295N	85 163W	S	CCTW04MV
56	271174			SPRS B	AIRGUN-RS	R-02	GDC	1 294N	85 170W	S	CCTW04MV
1633	281174			SPRS E	AIRGUN-RS	R-02	GDC	3 305N	86 508W	S	CCTW04MV
252	301174			SPRS B	AIRGUN-RS	R-03	GDC	2 408N	86 513W	S	CCTW04MV
242	41274			SPRS E	AIRGUN-RS	R-03	GDC	0 466N	89 134W	S	CCTW04MV
620	41274			SPRS B	AIRGUN-RS	R-04	GDC	0 455N	89 154W	S	CCTW04MV
2350	111274			SPRS E	AIRGUN-RS	R-04	GDC	16 264N	100 458W	S	CCTW04MV
930	121274			SPRS B	AIRGUN-RS	R-05	GDC	16 327N	100 378W	S	CCTW04MV
1748	181274			SPRS E	AIRGUN-RS	R-05	GDC	32 216N	117 118W	S	CCTW04MV

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 ***						
2048	231174		C	P B	CCTW04-42P	2766	GCR	3 90N	83 394W	S	CCTW04MV
2250	231174		C	P E	CCTW04-42P		GCR	3 79N	83 385W	S	CCTW04MV
2048	231174		C	PG B	CCTW04-42PG	2766	GCR	3 90N	83 394W	S	CCTW04MV
2250	231174		C	PG E	CCTW04-42PG		GCR	3 79N	83 385W	S	CCTW04MV
140	11274		C	P B	CCTW04-43P	3608	GCR	2 394N	87 291W	S	CCTW04MV
350	11274		C	P E	CCTW04-43P		GCR	2 383N	87 287W	S	CCTW04MV
140	11274		C	PG B	CCTW04-43PG	3608	GCR	2 394N	87 291W	S	CCTW04MV
350	11274		C	PG E	CCTW04-43PG		GCR	2 383N	87 287W	S	CCTW04MV
1343	111274		C	G B	CCTW04-44G	1127	GCR	16 515N	100 389W	S	CCTW04MV
1403	111274		C	G E	CCTW04-44G		GCR	16 517N	100 392W	S	CCTW04MV
1420	111274		C	G B	CCTW04-45G	1130	GCR	16 520N	100 391W	S	CCTW04MV
1508	111274		C	G E	CCTW04-45G		GCR	16 524N	100 394W	S	CCTW04MV
30	121274		C	P B	CCTW04-46P	4825	GCR	16 285N	100 454W	S	CCTW04MV
400	121274		C	P E	CCTW04-46P	NO CORE	GCR	16 253N	100 446W	S	CCTW04MV
30	121274		C	PG B	CCTW04-46PG	4825	GCR	16 285N	100 454W	S	CCTW04MV
400	121274		C	PG E	CCTW04-46PG		GCR	16 253N	100 446W	S	CCTW04MV
540	121274		C	P B	CCTW04-47P	5198	GCR	16 308N	100 412W	S	CCTW04MV
910	121274		C	P E	CCTW04-47P		GCR	16 322N	100 384W	S	CCTW04MV
540	121274		C	PG B	CCTW04-47PG	5198	GCR	16 308N	100 412W	S	CCTW04MV
910	121274		C	PG E	CCTW04-47PG		GCR	16 322N	100 384W	S	CCTW04MV
					*** DREDGE ***						
2205	261174		D	R B	CCTW-05D	3070	GCR	1 305N	85 157W	S	CCTW04MV
2342	261174		D	R E	CCTW-05D	3060	GCR	1 303N	85 166W	S	CCTW04MV
1254	271174		D	R B	CCTW-06D	2432	GCR	0 505N	86 331W	S	CCTW04MV
1402	271174		D	R E	CCTW-06D	2330	GCR	0 515N	86 326W	S	CCTW04MV
2236	271174		D	R B	CCTW-07D	2385	GCR	0 517N	87 51W	S	CCTW04MV
2356	271174		D	R E	CCTW-07D	3230	GCR	0 532N	87 53W	S	CCTW04MV
647	11274		D	R B	CCTW-08D	3170	GCR	2 367N	87 282W	S	CCTW04MV
930	11274		D	R E	CCTW-08D	2347	GCR	2 351N	87 269W	S	CCTW04MV
400	41274		D	R B	CCTW-09D	1845	GCR	0 467N	89 138W	S	CCTW04MV
522	41274		D	R E	CCTW-09D	1777	GCR	0 465N	89 141W	S	CCTW04MV
1308	51274		D	R B	CCTW-10D	2050	GCR	1 599N	91 368W	S	CCTW04MV
1408	51274		D	R E	CCTW-10D	1961	GCR	2 2N	91 371W	S	CCTW04MV

TIME GMT	DATE D.M.Y.	TIME TZ LOC	SAMP LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
HEAT FLOW STATIONS - DR. R.N. ANDERSON, LAMONT-DOHERTY GEOLOGICAL OBSERVATORY										
836	221174			HF4M	CCTW-4-HF01	LDO	5 165N	83 291W	S	CCTW04MV
1244	221174			HF4M	CCTW-4-HF02	LDO	5 23N	83 292W	S	CCTW04MV
1805	221174			HF4M	CCTW-4-HF03	LDO	4 372N	83 304W	S	CCTW04MV
2150	221174			HF4M	CCTW-4-HF04	LDO	4 267N	83 304W	S	CCTW04MV
136	231174			HF4M	CCTW-4-HF05	LDO	4 143N	83 302W	S	CCTW04MV
521	231174			HF4M	CCTW-4-HF06	LDO	4 0N	83 293W	S	CCTW04MV
957	231174			HF4M	CCTW-4-HF07	LDO	3 449N	83 405W	S	CCTW04MV
1235	231174			HF4M	CCTW-4-HF08	LDO	3 387N	83 407W	S	CCTW04MV
1543	231174			HF4M	CCTW-4-HF09	LDO	3 282N	83 402W	S	CCTW04MV
6	241174			HF4M	CCTW-4-HF10	LDO	3 77N	83 383W	S	CCTW04MV
458	241174			HF4M	CCTW-4-HF11	LDO	2 463N	83 332W	S	CCTW04MV
856	241174			HF4M	CCTW-4-HF12	LDO	2 276N	83 293W	S	CCTW04MV
1217	241174			HF4M	CCTW-4-HF13	LDO	2 147N	83 253W	S	CCTW04MV
1602	241174			HF4M	CCTW-4-HF14	LDO	1 591N	83 298W	S	CCTW04MV
1931	241174			HF4M	CCTW-4-HF15	LDO	1 440N	83 291W	S	CCTW04MV
2345	241174			HF4M	CCTW-4-HF16	LDO	1 311N	83 294W	S	CCTW04MV
331	251174			HF4M	CCTW-4-HF17	LDO	1 145N	83 296W	S	CCTW04MV
706	251174			HF4M	CCTW-4-HF18	LDO	0 595N	83 307W	S	CCTW04MV
1050	251174			HF4M	CCTW-4-HF19	LDO	0 449N	83 302W	S	CCTW04MV
1345	251174			HF4M	CCTW-4-HF20	LDO	0 301N	83 313W	S	CCTW04MV
1638	251174			HF4M	CCTW-4-HF21	LDO	0 230N	83 309W	S	CCTW04MV
2254	251174			HF4M	CCTW-4-HF22	LDO	0 5N	83 302W	S	CCTW04MV
1734	281174			HF4M	CCTW-4-HF23	LDO	3 312N	86 507W	S	CCTW04MV
2303	281174			HF4M	CCTW-4-HF24	LDO	2 577N	86 597W	S	CCTW04MV
736	291174			HF4M	CCTW-4-HF25	LDO	2 447N	86 544W	S	CCTW04MV
607	291174			HF4M	CCTW-4-HF26A	LDO	2 306N	86 599W	S	CCTW04MV
812	291174			HF4M	CCTW-4-HF26B	LDO	2 299N	87 6W	S	CCTW04MV
1220	291174			HF4M	CCTW-4-HF27	LDO	2 116N	87 22W	S	CCTW04MV
1522	291174			HF4M	CCTW-4-HF28	LDO	1 592N	87 29W	S	CCTW04MV
1927	291174			HF4M	CCTW-4-HF29	LDO	2 188N	86 502W	S	CCTW04MV
2238	291174			HF4M	CCTW-4-HF30	LDO	2 305N	86 512W	S	CCTW04MV
148	301174			HF4M	CCTW-4-HF31	LDO	2 423N	86 514W	S	CCTW04MV
1014	301174			HF4M	CCTW-4-HF32	LDO	2 409N	87 120W	S	CCTW04MV
1347	301174			HF4M	CCTW-4-HF33	LDO	2 320N	87 132W	S	CCTW04MV
1637	301174			HF4M	CCTW-4-HF34	LDO	2 204N	87 152W	S	CCTW04MV
2007	301174			HF4M	CCTW-4-HF35	LDO	2 333N	87 255W	S	CCTW04MV
20	11274			HF4M	CCTW-4-HF36	LDO	2 400N	87 289W	S	CCTW04MV
1316	11274			HF4M	CCTW-4-HF37	LDO	2 194N	87 341W	S	CCTW04MV
1629	11274			HF4M	CCTW-4-HF38	LDO	2 184N	87 446W	S	CCTW04MV
1958	11274			HF4M	CCTW-4-HF39	LDO	2 343N	87 527W	S	CCTW04MV
636	21274			HF4M	CCTW-4-HF40	LDO	4 8N	87 446W	S	CCTW04MV
1819	21274			HF4M	CCTW-4-HF41	LDO	5 172N	88 373W	S	CCTW04MV
1551	111274			HF3M	CCTW-4-HF42	LDO	16 521N	100 395W	S	CCTW04MV

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	241174			BTX	NO. SAMPLES=1	BTS	3 76N	83 383W	S CCTW04MV
0	251174			BTX	NO. SAMPLES=3	BTS	1 313N	83 293W	S CCTW04MV
0	261174			BTX	NO. SAMPLES=4	BTS	0 7N	83 307W	S CCTW04MV
0	271174			BTX	NO. SAMPLES=2	BTS	1 301N	85 166W	S CCTW04MV
0	281174			BTX	NO. SAMPLES=1	BTS	0 534N	87 53W	S CCTW04MV
0	291174			BTX	NO. SAMPLES=3	BTS	2 574N	86 599W	S CCTW04MV
0	301174			BTX	NO. SAMPLES=2	BTS	2 325N	86 519W	S CCTW04MV
0	11274			BTX	NO. SAMPLES=3	BTS	2 401N	87 288W	S CCTW04MV
0	21274			BTX	NO. SAMPLES=1	BTS	3 32N	87 515W	S CCTW04MV
0	31274			BTX	NO. SAMPLES=4	BTS	4 381N	88 415W	S CCTW04MV
0	41274			BTX	NO. SAMPLES=1	BTS	1 57N	89 61W	S CCTW04MV
0	51274			BTX	NO. SAMPLES=2	BTS	0 112N	90 401W	S CCTW04MV
0	61274			BTX	NO. SAMPLES=5	BTS	3 182N	92 311W	S CCTW04MV
0	71274			BTX	NO. SAMPLES=4	BTS	6 238N	94 142W	S CCTW04MV
0	81274			BTX	NO. SAMPLES=4	BTS	9 217N	96 250W	S CCTW04MV
0	91274			BTX	NO. SAMPLES=3	BTS	12 377N	98 455W	S CCTW04MV
0	101274			BTX	NO. SAMPLES=3	BTS	16 159N	100 514W	S CCTW04MV
0	111274			BTX	NO. SAMPLES=3	BTS	16 481N	100 588W	S CCTW04MV
0	121274			BTX	NO. SAMPLES=3	BTS	16 272N	100 457W	S CCTW04MV
0	131274			BTX	NO. SAMPLES=3	BTS	17 225N	102 284W	S CCTW04MV
0	141274			BTX	NO. SAMPLES=4	BTS	19 353N	105 267W	S CCTW04MV
0	151274			BTX	NO. SAMPLES=3	BTS	21 465N	108 357W	S CCTW04MV
0	161274			BTX	NO. SAMPLES=2	BTS	24 114N	111 441W	S CCTW04MV
0	171274			BTX	NO. SAMPLES=3	BTS	26 427N	114 526W	S CCTW04MV
SALINITY SAMPLES									
0	241174			SSSA	NO. SAMPLES=1	DCP	3 76N	83 383W	S CCTW04MV
0	251174			SSSA	NO. SAMPLES=3	DCP	1 313N	83 293W	S CCTW04MV
0	261174			SSSA	NO. SAMPLES=4	DCP	0 7N	83 307W	S CCTW04MV
0	271174			SSSA	NO. SAMPLES=2	DCP	1 301N	85 166W	S CCTW04MV
0	281174			SSSA	NO. SAMPLES=1	DCP	0 534N	87 53W	S CCTW04MV
0	291174			SSSA	NO. SAMPLES=3	DCP	2 574N	86 599W	S CCTW04MV
0	301174			SSSA	NO. SAMPLES=2	DCP	2 325N	86 519W	S CCTW04MV
0	11274			SSSA	NO. SAMPLES=3	DCP	2 401N	87 288W	S CCTW04MV
0	21274			SSSA	NO. SAMPLES=1	DCP	3 32N	87 515W	S CCTW04MV
0	31274			SSSA	NO. SAMPLES=4	DCP	4 381N	88 415W	S CCTW04MV
0	51274			SSSA	NO. SAMPLES=2	DCP	0 112N	90 401W	S CCTW04MV
0	61274			SSSA	NO. SAMPLES=5	DCP	3 182N	92 311W	S CCTW04MV
0	71274			SSSA	NO. SAMPLES=4	DCP	6 238N	94 142W	S CCTW04MV
0	81274			SSSA	NO. SAMPLES=4	DCP	9 217N	96 250W	S CCTW04MV
0	91274			SSSA	NO. SAMPLES=3	DCP	12 377N	98 455W	S CCTW04MV
0	101274			SSSA	NO. SAMPLES=3	DCP	16 159N	100 514W	S CCTW04MV
0	111274			SSSA	NO. SAMPLES=3	DCP	16 481N	100 588W	S CCTW04MV
0	121274			SSSA	NO. SAMPLES=3	DCP	16 272N	100 457W	S CCTW04MV
0	131274			SSSA	NO. SAMPLES=3	DCP	17 225N	102 284W	S CCTW04MV
0	141274			SSSA	NO. SAMPLES=4	DCP	19 353N	105 267W	S CCTW04MV
0	151274			SSSA	NO. SAMPLES=3	DCP	21 465N	108 357W	S CCTW04MV
0	161274			SSSA	NO. SAMPLES=2	DCP	24 114N	111 441W	S CCTW04MV
0	171274			SSSA	NO. SAMPLES=3	DCP	26 427N	114 526W	S CCTW04MV