BENTHIFACE EXPEDITION

LEG 2

R/V MELVILLE

INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

Manzanilla, Mexico (6 June 1973)

To

San Diego, Calif. (7 July 1973)

Co-Chief Scientists, Leg 2 - W. H. Berger, C. G. Adelseck, T. C. Johnson

Computer Tech - M. Moore, J. Charters

Resident Marine Tech - R. C. Wilson

Post-Cruise Processing by - S. M. Smith, U. Albright, O. McConnell

Prepared by

Underway Data Processing Group

S.I.O. Geological Data Center

Scripps Institution of Oceanography

La Jolla, California

September 21, 1973

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 (714-453-2000, Ext. 1534):

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.

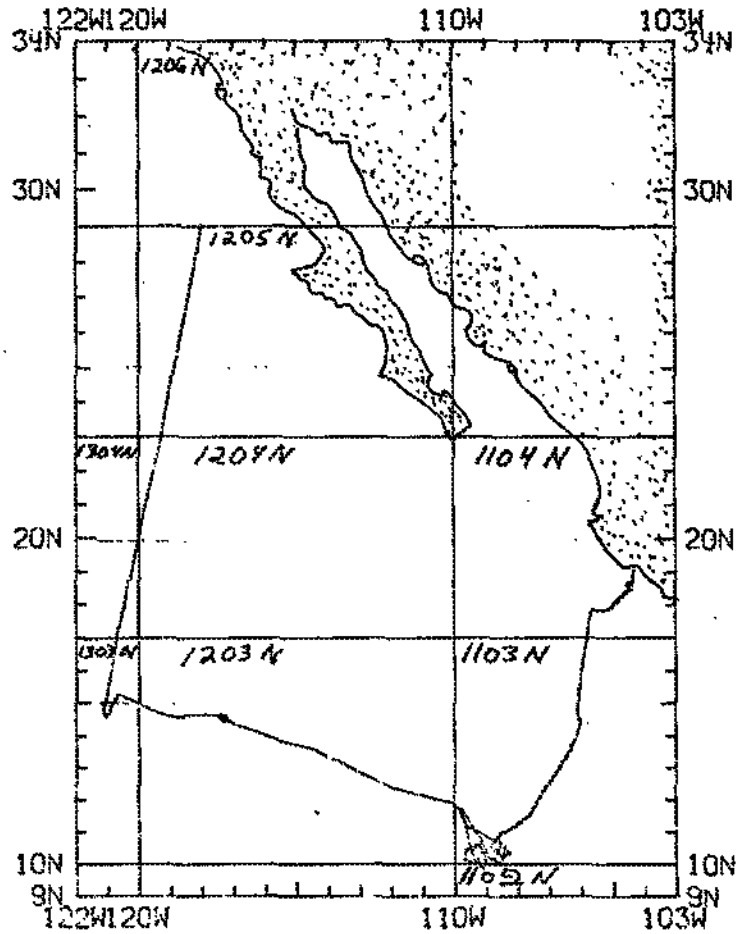
6. Microfilm or Xerox copies of:

   a. Echosounder records - 12 and 3.5 kHz frequency

   b. Subbottom profiler records (airgun)

   c. Magnetometer records

   d. Underway Data Log

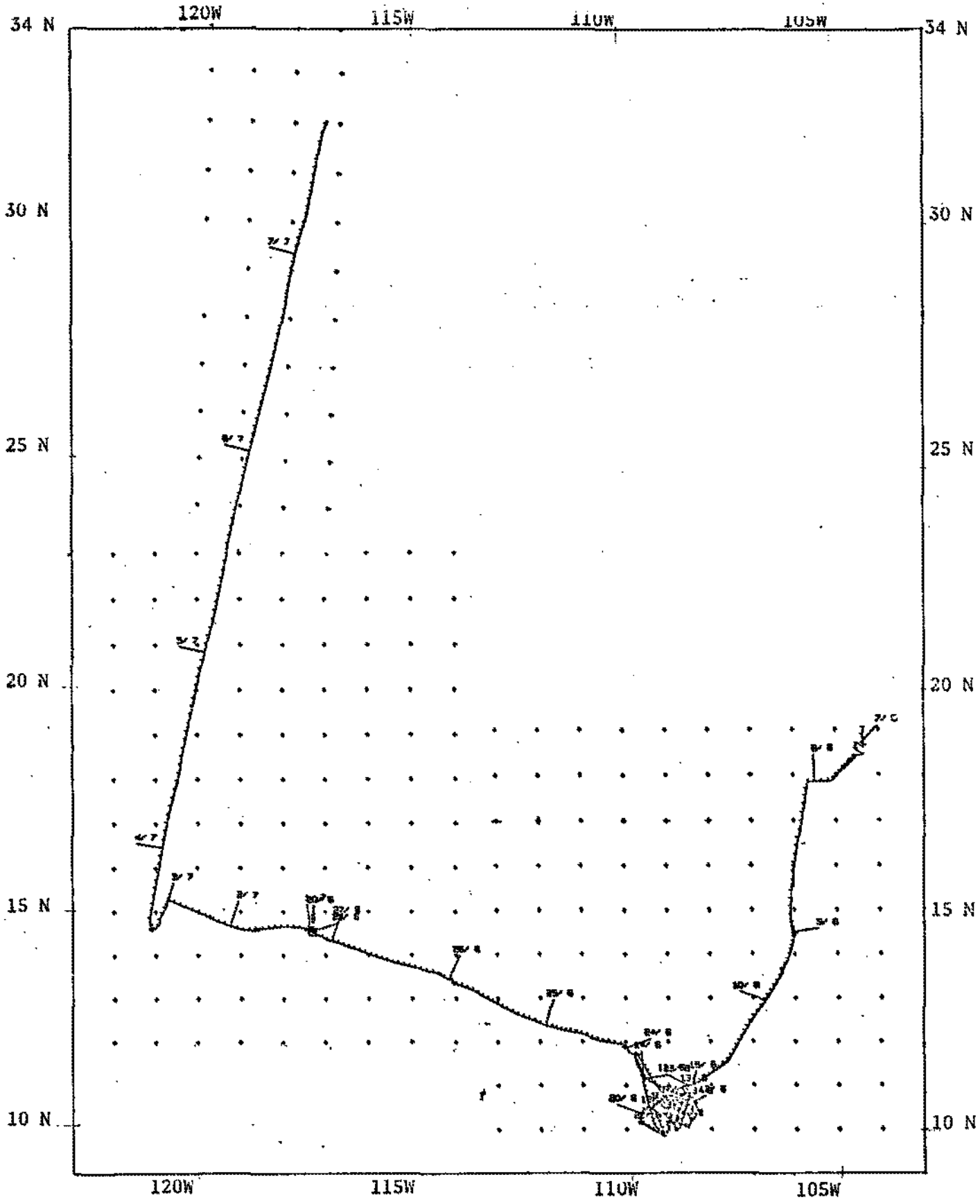


BENTHIFACE EXPEDITION
LEG 2
R/V MELVILLE

Chief scientists: W.H.Berger, C.G.Adelseck, T.C.Johnson
Manzanilla, Mexico - San Diego
(6 June 1973 - 7 July 1973)

TOTAL MILEAGE

1) Bathymetry - 3795 miles
2) Magnetics - 5006 miles
3) Seismic Reflection - 2816 miles
4) Cruise - 3983.5 miles



BENTHIFACE LEG 2 TRACK PLOT

DENTHIFACE LEG R2

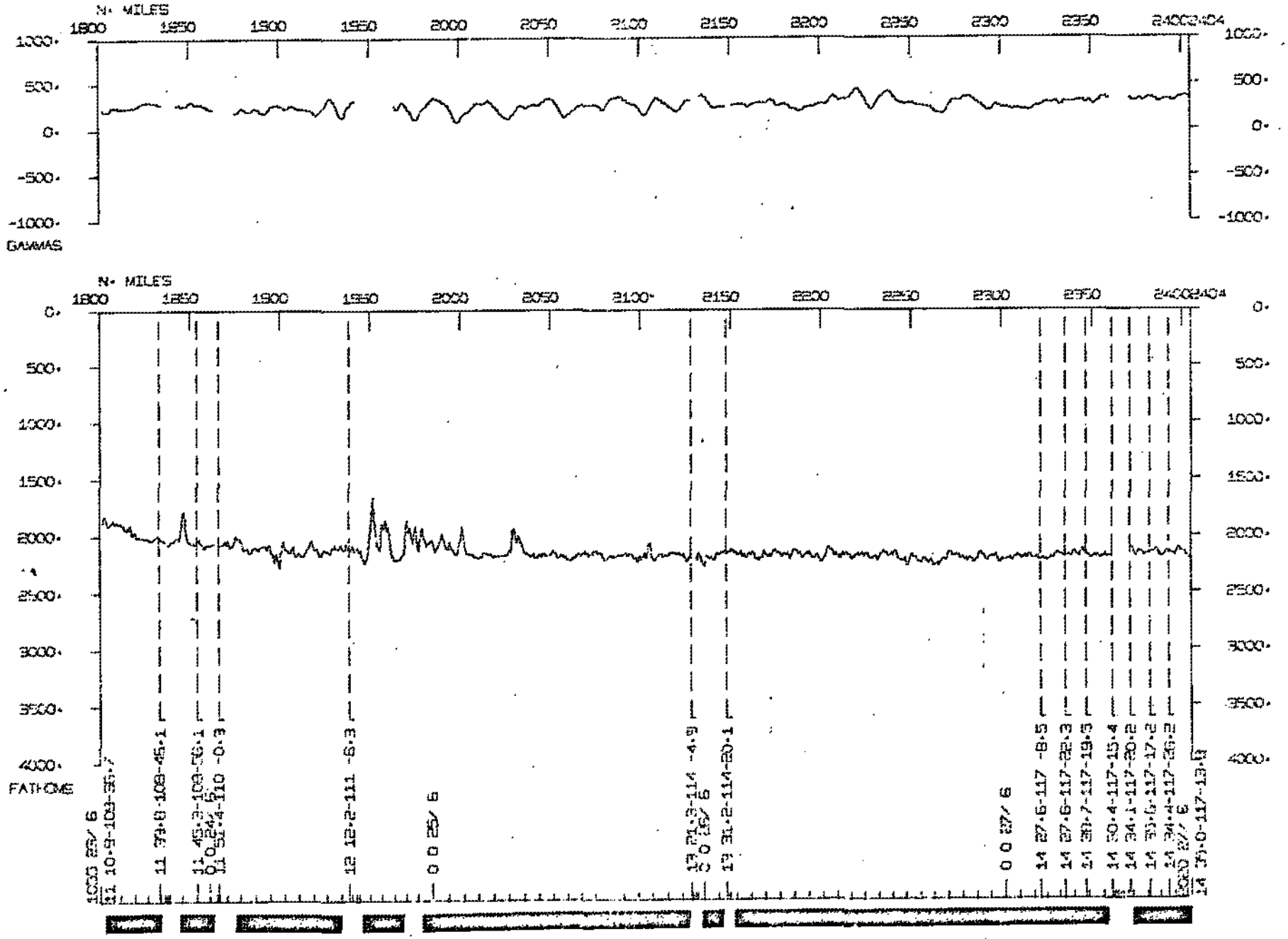
SENTHIFACE LEG 2

BENTHIFACE LEG 2

N. MILES

GAMMAS

FATHOMS

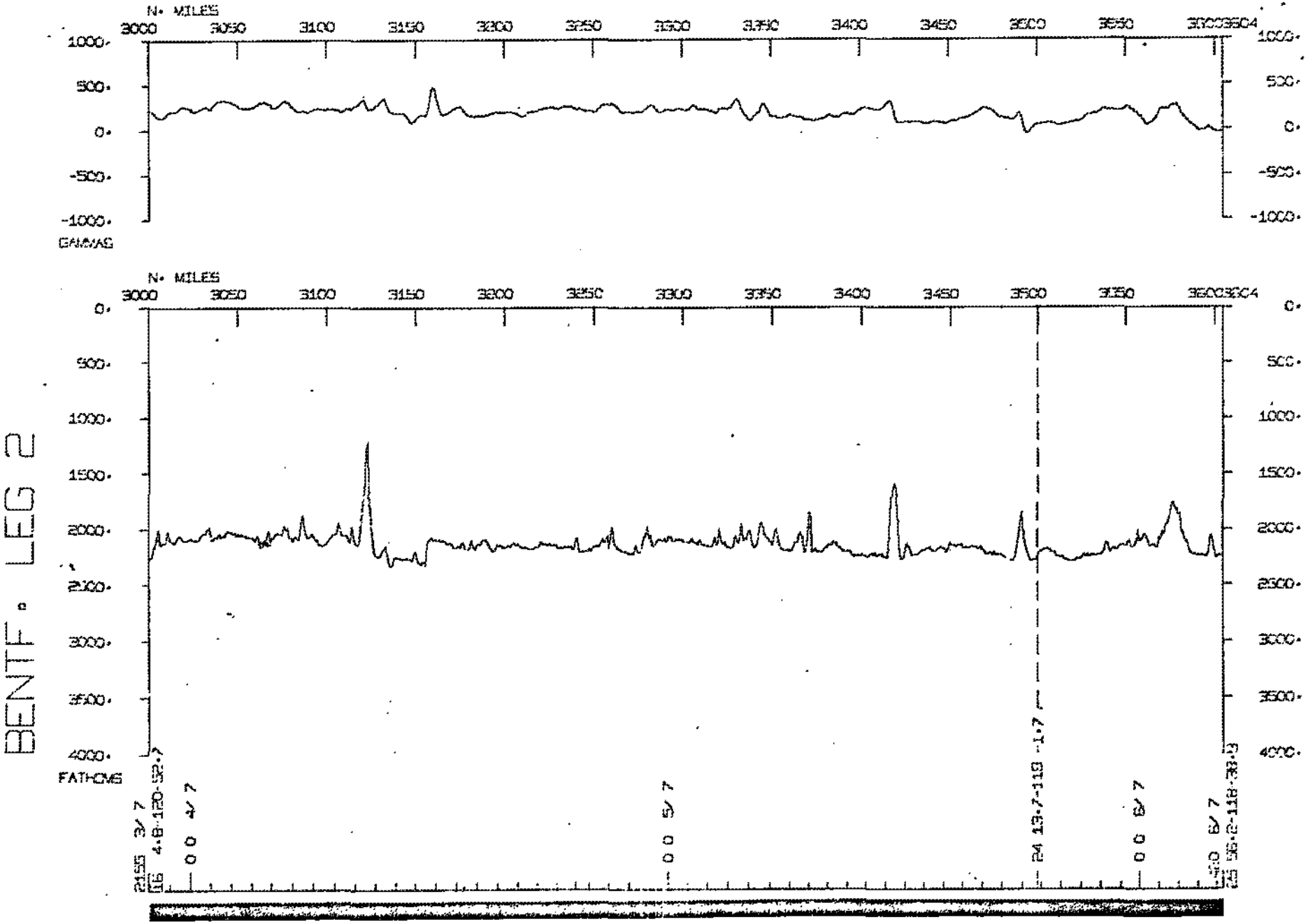

N. MILES
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
2404
1000
500
0
-500
-1000
GAMMAS
N. MILES
FATHOMS
BENTF. LEG 2

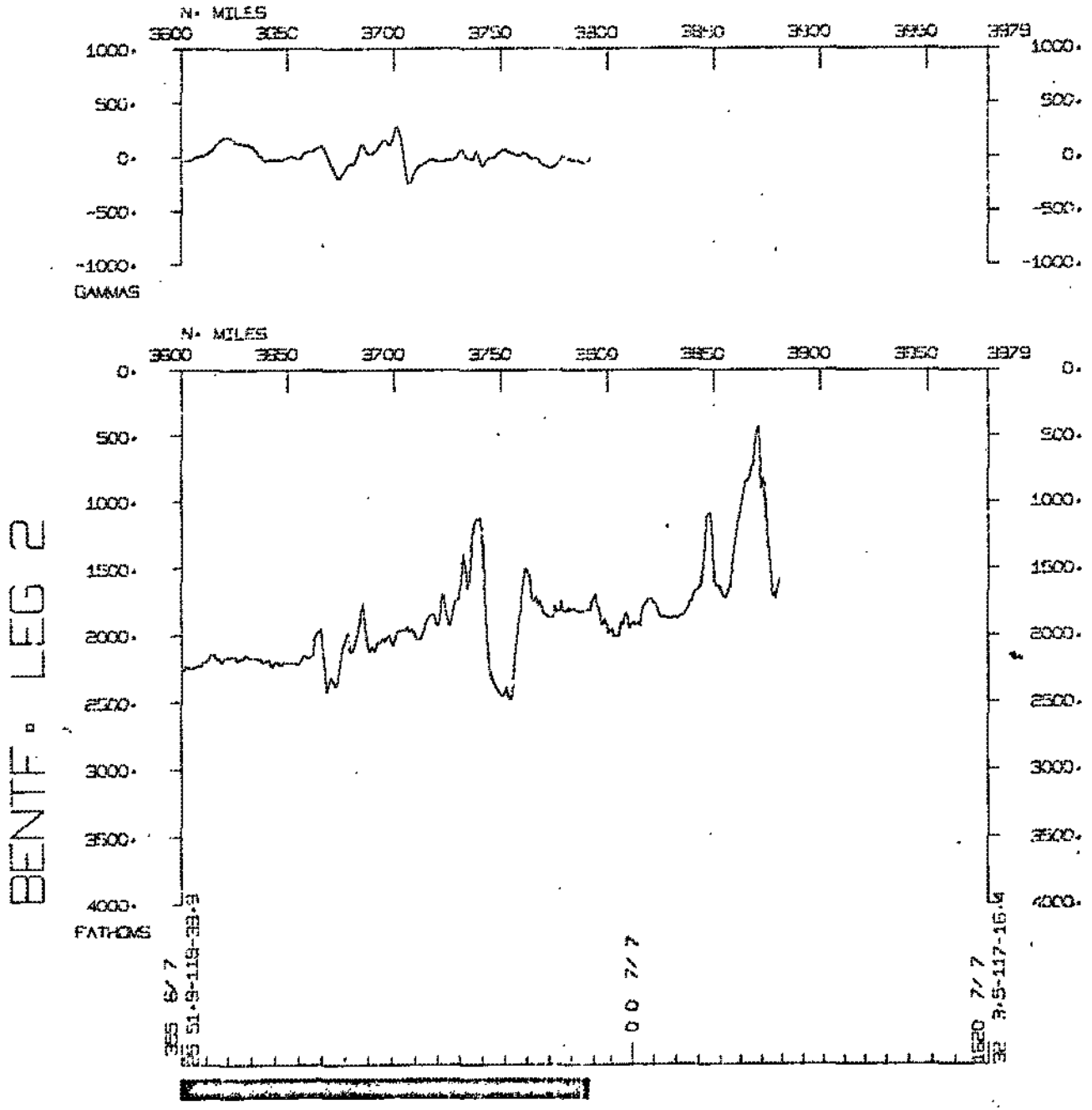
BENTT · LEG 2

N. MILES
2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3000004
1000 500 0 -500 -1000
GAMMAS

N. MILES
2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3000004
0 500 1000 1500 2000 2500 3000 3500 4000
FATHOMS

1970 27/ 8
14 35.0-117-18.6
14 32.9-117-24.5
14 29.6-117-24.0
14 33.5-117-18.4
14 29.0-117-17.1
14 35.4-117-21.5
14 35.9-117-17.7
14 33.9-117-15.8
0 0 30/ 6
14 31.8-117-22.7
14 32.7-117-18.4
14 34.7-117-23.5
14 37.3-117-18.4
14 35.3-117-17.8
14 32.7-117-18.5
14 36.9-117-22.3
14 40.1-117-24.7
14 36.9-117-22.3
14 35.5-118-41.8
14 34.9-118-33.5
0 0 2/ 7
14 49.8-118-40.3
050 592-720-45.0
15 17.0-120-43.2
14 43.6-120-54.1
14 34.3-121 -6.0
2220 3/ 7
15 9.3-120-54.5


N. MILES
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3604
1000
500
0
-500
-1000
GAMMAG
N. MILES
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3604
0
500
1000
1500
2000
2500
3000
3500
4000
FATHOMS
BENTF. LEG 2


N. MILES
3600
3650
3700
3750
3800
3850
3900
3950
3979
1000.
500.
0.
-500.
-1000.
GAMMAS
N. MILES
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
BENTF. LEG 2

LISTED SEPTEMBER 18, 1973

1944 060673	LG	B MANZANILLO, MEX.	GDC 19 03N 104 20.5W S	BNFCO2MV
1622 070773	LG	E SAN DIEGO	GDC 32 3.9N 117 16.3W S	BNFCO2M

PERSONNEL

PECS	W.H. BERGER	GRD	BNFCO2MV
PECS	C.G. ADELSECK	SIO	BNFCO2MV
PECS	T.C. JOHNSON	SIO	BNFCO2MV
PERT	R.C. WILSON	GRD	BNFCO2MV
PECT	J.M. MOORE	SCG	BNFCO2MV
PECT	J.S. CHARTERS	SCG	BNFCO2MV
PEAT	R.M. BYRNE	GRD	BNFCO2MV
PEET	K.E. KNUTSON	UCP	BNFCO2MV
PEMT	D. KELLOGG	UCP	BNFCO2MV
PE	R. BATIZA	SIO	BNFCO2MV
PE	D. ENO	NES	BNFCO2MV
PE	S. FEIN	NES	BNFCO2MV
PE	E.D. GAMBLE	MLR	BNFCO2MV
PE	S.M. HARTZELL	SIO	BNFCO2MV
PEXM	H. KASIMER	ISL	BNFCO2MV
PEXM	I. MILJETEIG	NOR	BNFCO2MV
PE	R. POLLOCK	NES	BNFCO2MV
PE	S. RITTENHOUSE	NES	BNFCO2MV
PE	E. ROTH	UCL	BNFCO2MV
PE	C.M. SHULL	NES	BNFCO2MV
PE	S.A. STONECIPHER	SIO	BNFCO2MV
PE	T. WALSH	SSD	BNFCO2MV
PE	G. WIRTH	SIO	BNFCO2MV

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

*** NAVIGATION PLOTS ***

TIME GMT	DATE D.M.Y.	TIME TZ LOC	SAMP LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1904	6 673			NVCP B DR	PLOT 02-01	GDC	19 30N	104 205W	S BNFC02MV
600	8 673			NVCP E DR	PLOT 02-01	GDC	16 596N	105 493W	S BNFC02MV
625	8 673			NVCP B DR	PLOT 02-02	GDC	16 549N	105 501W	S BNFC02MV
845	9 673			NVCP E DR	PLOT 02-02	GDC	14 15N	106 73W	S BNFC02MV
915	9 673			NVCP B DR	PLOT 02-03	GDC	13 585N	106 84W	S BNFC02MV
1946	10 673			NVCP E DR	PLOT 02-03	GDC	11 106N	108 79W	S BNFC02MV
1947	10 673			NVCP B DR	PLOT 02-04	GDC	11 105N	108 80W	S BNFC02MV
230	14 673			NVCP E DR	PLOT 02-04	GDC	11 107N	109 377W	S BNFC02MV
315	14 673			NVCP B DR	PLOT 02-05	GDC	11 93N	109 346W	S BNFC02MV
1930	16 673			NVCP E DR	PLOT 02-05	GDC	10 224N	108 384W	S BNFC02MV
44	14 673			NVCP B DR	PLOT 02-06	GDC	11 105N	109 361W	S BNFC02MV
100	20 673			NVCP E DR	PLOT 02-06	GDC	10 141N	109 401W	S BNFC02MV
44	14 673			NVCP B DR	PLOT 02-07	GDC	11 105N	109 361W	S BNFC02MV
2000	22 673			NVCP E DR	PLOT 02-07	GDC	11 96N	109 346W	S BNFC02MV
2000	22 673			NVCP B DR	PLOT 02-08	GDC	11 96N	109 346W	S BNFC02MV
530	26 673			NVCP E DR	PLOT 02-08	GDC	13 360N	114 281W	S BNFC02MV
530	26 673			NVCP B DR	PLOT 02-09	GDC	13 360N	114 281W	S BNFC02MV
1443	27 673			NVCP E DR	PLOT 02-09	GDC	14 335N	117 198W	S BNFC02MV
206	27 673			NVCP B DR	PLOT 02-10	GDC	14 264N	117 62W	S BNFC02MV
302	29 673			NVCP E DR	PLOT 02-10	GDC	14 349N	117 150W	S BNFC02MV
726	1 773			NVCP B DR	PLOT 02-11	GDC	14 375N	117 219W	S BNFC02MV
121	4 773			NVCP E DR	PLOT 02-11	GDC	16 430N	120 457W	S BNFC02MV
246	4 773			NVCP B DR	PLOT 02-12	GDC	16 592N	120 434W	S BNFC02MV
800	5 773			NVCP E DR	PLOT 02-12	GDC	22 174N	119 260W	S BNFC02MV
827	5 773			NVCP B DR	PLOT 02-13	GDC	22 221N	119 249W	S BNFC02MV
1600	6 774			NVCP E DR	PLOT 02-13	GDC	27 595N	118 102W	S BNFC02MV
1900	6 773			NVCP B DR	PLOT 02-14	GDC	28 308N	118 48W	S BNFC02MV
1900	7 773			NVCP E DR	PLOT 02-14	GDC	32 39N	117 163W	S BNFC02MV

GRAVIMETER

TIME GMT	DATE D.M.Y.	TIME IZ LOC	SAMP LOC	CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
1915	6 673			DPRT R	GDR 12KHZ R-01	GDC 19	30N	104 205W	S	BNFC02MV
129	9 673			DPRT E	GDR 12KHZ R-01	GDC 16	295N	106 27W	S	BNFC02MV
321	9 673			DPRT R	GDR 12KHZ R-02	GDC 14	312N	106 3W	S	BNFC02MV
940	11 673			DPRT E	GDR 12KHZ R-02	GDC 10	157N	108 575W	S	BNFC02MV
1104	11 673			DPRT R	GDR 12KHZ R-03	GDC 10	155N	108 583W	S	BNFC02MV
1204	14 673			DPRT E	GDR 12KHZ R-03	GDC 10	447N	108 434W	S	BNFC02MV
1220	14 673			DPRT R	GDR 12KHZ R-04	GDC 10	445N	108 432W	S	BNFC02MV
1100	17 673			DPRT E	GDR 12KHZ R-04	GDC 10	247N	108 464W	S	BNFC02MV
1110	17 673			DPRT R	GDR 12KHZ R-05	GDC 10	248N	108 463W	S	BNFC02MV
1655	20 673			DPRT E	GDR 12KHZ R-05	GDC 9	521N	109 89W	S	BNFC02MV
1759	20 673			DPRT R	GDR 12KHZ R-06	GDC 9	520N	109 89W	S	BNFC02MV
1903	24 673			DPRT E	GDR 12KHZ R-06	GDC 12	140N	111 177W	S	BNFC02MV
1920	24 673			DPRT R	GDR 12KHZ R-07	GDC 12	144N	111 194W	S	BNFC02MV
1138	27 673			DPRT E	GDR 12KHZ R-07	GDC 14	328N	117 147W	S	BNFC02MV
1133	27 673			DPRT R	GDR 12KHZ R-08	GDC 14	328N	117 147W	S	BNFC02MV
1806	1 773			DPRT E	GDR 12KHZ R-08	GDC 14	354N	118 334W	S	BNFC02MV
1808	1 773			DPRT R	GDR 12KHZ R-09	GDC 14	354N	118 334W	S	BNFC02MV
411	5 773			DPRT E	GDR 12KHZ R-09	GDC 21	360N	119 358W	S	BNFC02MV
414	5 773			DPRT R	GDR 12KHZ R-10	GDC 21	366N	119 356W	S	BNFC02MV
700	7 773			DPRT E	GDR 12KHZ R-10	GDC 30	282N	117 361W	S	BNFC02MV

MAGNETOMETER

TIME GMT	DATE D.M.Y.	TIME IZ LOC	SAMP LOC	CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
2044	6 673			MGR R	MAGNETIC ROLL R- 1	GDC 18	555N	104 223W	S	BNFC02MV
147	28 673			MGR E	MAGNETIC ROLL R- 1	GDC 14	292N	117 203W	S	BNFC02MV
213	28 673			MGR R	MAGNETIC ROLL R- 2	GDC 14	292N	117 234W	S	BNFC02MV
2130	1 773			MGR E	MAGNETIC ROLL R- 2	GDC 14	351N	118 529W	S	BNFC02MV
2130	1 773			MGR R	MAGNETIC ROLL R- 3	GDC 14	351N	118 529W	S	BNFC02MV
151	6 773			MGR E	MAGNETIC ROLL R- 3	GDC 25	299N	118 449W	S	BNFC02MV

*** SEISMIC REFLECTION PROFILES ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
45	7 673			SPRS B	AIRGUN-RS R-01	GDC	18 413N	104 294W S	BNFC02HV
349	7 673			SPRS E	AIRGUN-RS R-01	GDC	18 252N	104 312W S	BNFC02HV
2300	7 673			SPRS B	AIRGUN-RS R-02	GDC	17 510N	105 211W S	BNFC02HV
2151	6 773			SPRS E	AIRGUN-RS R-02	GDC	29 5N	117 591W S	BNFC02HV

GEOLOGICAL SAMPLES - CURATOR W&R.RIEDEL (EXT.1579)

*** CORES ***

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1402	7 673			C G	BNFC 1-G 4249M	GCR	18 181N	104 396W S	BNFC02HV
1537	7 673			C G	BNFC 2-G 4091M	GCR	18 149N	104 426W S	BNFC02HV
1552	8 673			C BX	BNFC 3-BX 3381M	GCR	15 314N	106 34W S	BNFC02HV
223	9 673			C G	BNFC 4-G 3382M	GCR	14 306N	106 20W S	BNFC02HV
1247	9 673			C G	BNFC 5-G 3220M	GCR	13 385N	106 189W S	BNFC02HV
2307	9 673			C G	BNFC 6-G 3873M	GCR	12 579N	106 431W S	BNFC02HV
1349	10 673			C G	BNFC 7-G 3400M	GCR	11 337N	107 352W S	BNFC02HV
39	11 673			C P	BNFC 8-P 3372M	GCR	10 587N	108 322W S	BNFC02HV
39	11 673			C PG	BNFC 8-PG 3372M	GCR	10 587N	108 322W S	BNFC02HV
1043	11 673			C P	BNFC 9-P 3400M	GCR	10 155N	108 581W S	BNFC02HV
1043	11 673			C PG	BNFC 9-PG 3400M	GCR	10 155N	108 581W S	BNFC02HV
1558	11 673			C BX	BNFC 10-BX 3400M	GCR	10 150N	108 600W S	BNFC02HV
1812	11 673			C P	BNFC 11-P 3422M	GCR	10 85N	108 542W S	BNFC02HV
1812	11 673			C PG	BNFC 11-PG 3422M	GCR	10 83N	108 542W S	BNFC02HV
406	12 673			C P	BNFC 12-P 3402M	GCR	9 514N	109 69W S	BNFC02HV
406	12 673			C PG	BNFC 12-PG 3402M	GCR	9 513N	109 69W S	BNFC02HV
1440	12 673			C G	BNFC 13-G 2750M	GCR	10 295N	109 228W S	BNFC02HV
2136	12 673			C P	BNFC 14-P 5119M	GCR	10 420N	109 60W S	BNFC02HV
2136	12 673			C PG	BNFC 14-PG 5119M	GCR	10 420N	109 60W S	BNFC02HV
1239	13 673			C P	BNFC 15-P 3746M	GCR	11 407N	109 455W S	BNFC02HV
1239	13 673			C PG	BNFC 15-PG 3746M	GCR	11 407N	109 455W S	BNFC02HV
1655	13 673			C BX	BNFC 16-BX 3874M	GCR	11 413N	109 472W S	BNFC02HV
113	14 673			C P	BNFC 17-P 3921M	GCR	11 106N	109 363W S	BNFC02HV
113	14 673			C PG	BNFC 17PG 3921M	GCR	11 100N	109 363W S	BNFC02HV
2044	14 673			C P	BNFC 18-P 3950M	GCR	10 620N	108 318W S	BNFC02HV
2044	14 673			C PG	BNFC 18-PG 3950M	GCR	10 620N	108 318W S	BNFC02HV
20	15 673			C BX	BNFC 19-BX 3949M	GCR	10 630N	108 329W S	BNFC02HV
218	16 673			C P	BNFC 20-P 4356M	GCR	10 336N	108 230W S	BNFC02HV
218	16 673			C PG	BNFC 20-PG 4356M	GCR	10 336N	108 230W S	BNFC02HV
827	16 673			C G	BNFC 21-G 2331M	GCR	10 170N	108 163W S	BNFC02HV
911	16 673			C G	BNFC 22-G 2647M	GCR	10 193N	108 217W S	BNFC02HV
1447	16 673			C P	BNFC 23-P 2757M	GCR	10 213N	108 390W S	BNFC02HV
1447	16 673			C PG	BNFC 23-PG 2757M	GCR	10 213N	108 390W S	BNFC02HV
1724	16 673			C BX	BNFC 24-BX 2737M	GCR	10 219N	108 385W S	BNFC02HV
1946	16 673			C P	BNFC 25-P 2694M	GCR	10 225N	108 384W S	BNFC02HV

[illegible]T	D.M.Y.	LOG	LOG CODE	SAMPLE IDENT.		CF	LAT.	LONG.		LEG-SHIP
1940	16 673	C	PG	BNFC 25-PG	2694M	GCR	10 275N	108 384W	S	BNFCO2MV
2230	16 673	C	BX	BNFC 26-BX	2673M	GCR	10 244N	108 392W	S	BNFCO2MV
300	17 673	C	P	BNFC 27-P	5341M	GCR	10 340N	108 432W	S	BNFCO2MV
300	17 673	C	PG	BNFC 27-PG	5341M	GCR	10 340N	108 432W	S	BNFCO2MV
645	17 673	C	G	BNFC 28-G	1820M	GCR	10 272N	108 455W	S	BNFCO2MV
751	17 673	C	G	BNFC 29-G	1163M	GCR	10 241N	108 476W	S	BNFCO2MV
836	17 673	C	G	BNFC 30-G	1847M	GCR	10 250N	108 484W	S	BNFCO2MV
936	17 673	C	G	BNFC 31-G	1246M	GCR	10 243N	108 472W	S	BNFCO2MV
1034	17 673	C	G	BNFC 32-G	1423M	GCR	10 246N	108 465W	S	BNFCO2MV
1336	17 673	C	P	BNFC 33-P	3396M	GCR	10 173N	108 486W	S	BNFCO2MV
1336	17 673	C	PG	BNFC 33-PG	3396M	GCR	10 173N	108 486W	S	BNFCO2MV
1725	17 673	C	BX	BNFC 34-BX	3286M	GCR	10 148N	108 470W	S	BNFCO2MV
2210	17 673	CAMS	B	BNFC 35-C	1772M	WHB	10 151N	108 462W	S	BNFCO2MV
2240	17 673	CAMS	E	BNFC 35-C	1776M	WHB	10 151N	108 460W	S	BNFCO2MV
158	18 673	C	BX	BNFC 36-BX	3382M	GCR	10 105N	108 499W	S	BNFCO2MV
519	18 673	C	G	BNFC 37-G	3115M	GCR	10 26N	108 525W	S	BNFCO2MV
725	18 673	C	G	BNFC 38-G	1267M	GCR	9 582N	108 510W	S	BNFCO2MV
941	18 673	C	G	BNFC 39-G	3041M	GCR	10 72N	109 27W	S	BNFCO2MV
1326	18 673	C	G	BNFC 40-G	3239M	GCR	10 212N	109 39W	S	BNFCO2MV
2055	18 673	C	G	BNFC 41-G	2135M	GCR	10 336N	109 1W	S	BNFCO2MV
2230	18 673	CAMS	B	BNFC 42-C	2058M	WHB	10 331N	109 12W	S	BNFCO2MV
2306	18 673	CAMS	E	BNFC 42-C	2058M	WHB	10 328N	109 17W	S	BNFCO2MV
135	19 673	C	P	BNFC 43-P	2720M	GCR	10 295N	109 17W	S	BNFCO2MV
135	19 673	C	PG	BNFC 43-PG	2720M	GCR	10 295N	109 17W	S	BNFCO2MV
433	19 673	C	P	BNFC 44-P	2846M	GCR	10 294N	109 14W	S	BNFCO2MV
433	19 673	C	PG	BNFC 44-PG	2846M	GCR	10 294N	109 14W	S	BNFCO2MV
620	19 673	C	BX	BNFC 45-BX	3421M	GCR	10 180N	108 580W	S	BNFCO2MV
1321	19 673	C	G	BNFC 46-G	3209M	GCR	10 307N	109 108W	S	BNFCO2MV
1651	19 673	C	P	BNFC 47-P	3421M	GCR	10 354N	109 165W	S	BNFCO2MV
1651	19 673	C	PG	BNFC 47-PG	3421M	GCR	10 354N	109 165W	S	BNFCO2MV
2151	19 673	C	G	BNFC 48-G	1373M	GCR	10 291N	109 307W	S	BNFCO2MV
330	20 673	C	P	BNFC 49-P	3516M	GCR	10 80N	109 401W	S	BNFCO2MV
330	20 673	C	PG	BNFC 49-PG	3516M	GCR	10 80N	109 401W	S	BNFCO2MV
653	20 673	C	BX	BNFC 50-BX	3655M	GCR	10 86N	109 393W	S	BNFCO2MV
916	20 673	C	BX	BNFC 51-BX	3650M	GCR	10 96N	109 394W	S	BNFCO2MV
1056	20 673	CAMS		BNFC 52-C		WHB	10 104N	109 395W	S	BNFCO2MV
159	24 673	C	P	BNFC 53-P	3892M	GRD	11 522N	110 1W	S	BNFCO2MV
159	24 673	C	PG	BNFC 53-PG	3892M	GRD	11 522N	110 1W	S	BNFCO2MV
519	24 673	C	BX	BNFC 54-BX	3892M	GCR	11 516N	110 4W	S	BNFCO2MV
1700	24 673	C	G	BNFC 55-G	4000M	GCR	12 126N	111 98W	S	BNFCO2MV
1900	25 673	C	BX	BNFC 56-BX	4158M	GCR	13 221N	114 50W	S	BNFCO2MV
2203	25 673	C	P	BNFC 57-P	4143M	GCR	13 241N	114 54W	S	BNFCO2MV
2203	25 673	C	PG	BNFC 57-PG	4143M	GCR	13 241N	114 54W	S	BNFCO2MV
250	26 673	C	P	BNFC 58-P	4047M	GCR	13 321N	114 207W	S	BNFCO2MV
250	26 673	C	PG	BNFC 58-PG	4047M	GCR	13 321N	114 207W	S	BNFCO2MV
921	27 673	C	P	BNFC 59-P	4076M	GCR	14 318N	117 155W	S	BNFCO2MV
921	27 673	C	PG	BNFC 59-PG	4076M	GCR	14 318N	117 155W	S	BNFCO2MV
944	29 673	C	P	BNFC 60-P	4091M	GCR	14 344N	117 220W	S	BNFCO2MV
944	29 673	C	PG	BNFC 60-PG	4091M	GCR	14 344N	117 220W	S	BNFCO2MV
1305	29 673	C	BX	BNFC 61-BX	4112M	GCR	14 363N	117 222W	S	BNFCO2MV
1632	29 673	C	P	BNFC 62-P	4015M	GCR	14 364N	117 176W	S	BNFCO2MV
1632	29 673	C	PG	BNFC 62-P	4015M	GCR	14 364N	117 176W	S	BNFCO2MV
2010	29 673	C	BX	BNFC 63-BX		GCR	14 328N	117 162W	S	BNFCO2MV
2233	29 673	C	G	BNFC 64-G	4066M	GCR	14 332N	117 172W	S	BNFCO2MV

CAT	N.F.Y.	LOC	LOC CODE	SAMPLE IDENT.	COORD	ALT.	COMM.	COLLECTOR
34	30	673	C G	BNFC 69-G 3922M	GCR 14 329N	117 190W	S	BNFC02MV
358	30	673	C FF	BNFC 66-FF	GCR 14 315N	117 221W	S	BNFC02MV
401	30	673	C FF	BNFC 67-FF	GCR 14 315W	117 217W	S	BNFC02MV
406	30	673	C FF	BNFC 68-FF	GCR 14 316W	117 212W	S	BNFC02MV
416	30	673	C FF	BNFC 69-FF	GCR 14 317N	117 200W	S	BNFC02MV
420	30	673	C FF	BNFC 70-FF	GCR 14 318N	117 196W	S	BNFC02MV
433	30	673	C FF	BNFC 71-FF	GCR 14 320N	117 192W	S	BNFC02MV
1640	30	673	C BX	BNFC 72-BX 4007M	GCR 14 346N	117 186W	S	BNFC02MV
2025	30	673	C PG	BNFC 73-PG 4138M	GCR 14 334N	117 182W	S	BNFC02MV
2025	30	673	C P	BNFC 73-P 4138M	GCR 14 334N	117 182W	S	BNFC02MV
42	1	673	C BX	BNFC 74-BX 3980M	GCR 14 [illegible]30N	104 205W	S	BNFC02MV
446	1	773	C FF	BNFC 75-FF	GCR 14 365N	117 233W	S	BNFC02MV
469	1	773	C FF	BNFC 76-FF	GCR 14 366N	117 230W	S	BNFC02MV
500	1	773	C FF	BNFC 77-FF	GCR 14 367N	117 216W	S	BNFC02MV
506	1	773	C FF	BNFC 78-FF	GCR 14 367N	117 209W	S	BNFC02MV
509	1	773	C FF	BNFC 79-FF	GCR 14 368N	117 205W	S	BNFC02MV
512	1	773	C FF	BNFC 80-FF	GCR 14 368N	117 202W	S	BNFC02MV
1838	1	773	C G	BNFC 81-G 4137M	GCR 14 351N	118 333W	S	BNFC02MV
445	2	773	C BX	BNFC 82-BX 4256M	GCR 14 502N	119 396W	S	BNFC02MV
1634	2	773	C BX	BNFC 83-BX 4226M	GCR 15 88N	120 449W	S	BNFC02MV
2324	2	773	C PG	BNFC 84-P 4028M	GCR 15 5ON	120 449W	S	BNFC02MV
2324	2	773	C PG	BNFC 84-PG 4028M	GCR 15 5ON	120 449W	S	BNFC02MV
646	3	773	C BX	BNFC 85-BX 4356M	GCR 14 302N	121 19W	S	BNFC02MV
1001	3	773	C PG	BNFC 86-P 4386M	GCR 14 351N	121 37W	S	BNFC02MV
1001	3	773	C PG	BNFC 86-PG 4386M	GCR 14 351N	121 37W	S	BNFC02MV

INVERTEBRATE PALEOLOGY-CURATOR ABRAHAN FLEMINGER (EXT. 1131)

BENTHIC MOP

1712	23	673		THES B BENTHI-MOP	RHR 11 420N	109 443W	S	BNFC02MV
1911	23	673		THES F BENTHI-MOP	RHR 11 431N	109 445W	S	BNFC02MV

CURRENT MEASUREMENTS - CURATOR SARILEE VALENTINE (EXT. 1080)

*** CURRENT MEASUREMENT ***

630	12	673		CHAB B CURRENT METER NR	VAL 9 506N	109 63W	S	BNFC02MV
1754	21	673		CHAB F CURRENT METER NR	VAL 9 503N	109 72W	S	BNFC02MV
1110	13	673		CHAB B CURRENT METER NR	VAL 11 40ON	109 446W	S	BNFC02MV
1127	23	673		CHAB F CURRENT METER NR	VAL 11 101N	109 356W	S	BNFC02MV
2245	13	673		CHAB B CURRENT METER NR	VAL 11 106N	109 346W	S	BNFC02MV
1127	23	673		CHAB E CURRENT METER NR	VAL 11 101N	1 9 3560	2	5

GMT	D.M.Y.	LOC	LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
649	28	673		CMAB	B CURRENT METER NR	VAL	14 33.5N	117 19.3W	S BNFC02MV
1913	30	673		CMAB	E CURRENT METER NR	VAL	14 33.6N	117 18.5W	S BNFC02MV
742	28	673		CMAB	B CURRENT METER NR	VAL	14 31.2N	117 16.7W	S BNFC02MV
1833	30	673		CMAB	E CURRENT METER NR	VAL	14 30.0N	117 15.3W	S BNFC02MV

DATA COLLECTION AND PROCESSING GROUP-F.WILKES (EXT.1140)

*** HYDROGRAPHIC CAST ***

TIME GMT	DATE D.M.Y.	TIME ZONE LOC	SAMP LOC	CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1641	20	673		HCMA	1 TSU	DCP	9 52.1N	109 8.9W	S BNFC02MV
407	21	673		HCMA	2 TSU	DCP	9 53.8N	109 10.1W	S BNFC02MV
1956	21	673		HCMA	3 TSU	DCP	9 50.7N	109 7.2W	S BNFC02MV
2254	21	673		HCMA	4 TSU	DCP	9 50.6N	109 7.8W	S BNFC02MV
2152	22	673		HCMA	5 TSU	DCP	11 9.6N	109 34.4W	S BNFC02MV
1837	28	673		HCMA	6 TSU	DCP	14 33.1N	117 15.5W	S BNFC02MV
614	21	673		HCVD	1 A	WHB	9 54.1N	109 10.4W	S BNFC02MV
2328	22	673		HCVD	2 A	WHB	11 9.6N	109 34.4W	S BNFC02MV
2019	28	673		HCVD	3 A	WHB	14 33.4N	117 15.5W	S BNFC02MV
2135	28	673		HCVD	4 A	WHB	14 33.0N	117 15.4W	S BNFC02MV
140	30	673		HCVD	5 A	WHB	14 33.5N	117 18.5W	S BNFC02MV
1957	11	673		0N1M	B BNFC V 0200M NR1	DCP	10 8.6N	108 55.9W	S BNFC02MV
2003	11	673		0N1M	E BNFC V 0200M NR1	DCP	10 8.7N	108 56.0W	S BNFC02MV
2200	14	673		0N1M	B BNFC V 0200M NR2	GRD	10 42.7N	108 32.1W	S BNFC02MV
2217	14	673		0N1M	E BNFC V 0200M NR2	GRD	10 42.8N	108 32.2W	S BNFC02MV
1630	16	673		0N1M	B BNFC V 0200M NR3	GRD	10 22.2N	108 38.3W	S BNFC02MV
1647	16	673		0N1M	E BNFC V 0200M NR3	GRD	10 22.3N	108 38.3W	S BNFC02MV

RUPEN PFT

1549	17	673		0N1M	B BNFC V 0200M NR4	GRD	10 14.8N	108 46.8W	S BNFC02MV
2014	17	673		0N1M	E BNFC V 0200M NR4	GRD	10 14.9N	108 46.7W	S BNFC02MV
350	24	673		0N1M	B BNFC V 0200M NR5	GRD	11 51.4N	110 .3W	S BNFC02MV
400	24	673		0N1M	E BNFC V 0200M NR5	GRD	11 51.4N	110 .3W	S BNFC02MV
2020	25	673		0N1M	B BNFC V 0200M NR6	GRD	13 22.9N	114 5.1W	S BNFC02MV
2031	25	673		0N1M	E BNFC V 0200M NR6	GRD	13 23.0N	114 5.1W	S BNFC02MV

GMT	D.O.Y.	LOC	LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
2203	30	673		BNFC	V 0200M NR7	GRD	14 342N	117 183W	S BNFC02MV
2215	30	673		BNFC	V 0200M NR7	GRD	14 343N	117 183W	S BNFC02MV
1821	2	673		BNFC	V 0200M NR8	GRD	15 78N	120 447W	S BNFC02MV
1831	2	673		BNFC	V 0200M NR8	GRD	15 78N	120 447W	S BNFC02MV

*** CLOSING NET ***

2242	11	673		CNBG	B BNFC BONGO TOW-1	GRD	10 77N	109 14W	S	BNFC02MV
159	12	673		CNBG	E BNFC BONGO TOW-1	GRD	10 127N	108 574W	S	BNFC02MV
1428	14	673		CNBG	B BNFC BONGO TOW-2	GRD	10 447N	108 416W	S	BNFC02MV
1726	14	673		CNBG	E BNFC BONGO TOW-2	GRD	10 483N	108 382W	S	BNFC02MV
25	23	673		CNBG	B BNFC BONGO TOW-3	GRD	11 102N	109 355W	S	BNFC02MV
144	23	673		CNBG	E BNFC BONGO TOW-3	GRD	11 119N	109 384W	S	BNFC02MV
1231	27	673		CNBG	B BNFC BONGO TOW-4	GRD	14 331N	117 165W	S	BNFC02MV
1535	27	673		CNBG	E BNFC BONGO TOW-4	GRD	14 341N	117 202W	S	BNFC02MV
650	30	673		CNBG	B BNFC BONGO TOW-5	GRD	14 328N	117 191W	S	BNFC02MV
1215	30	673		CNBG	E BNFC BONGO TOW-5	GRD	14 343N	117 285W	S	BNFC02MV

MARINE CHEMISTRY

TIME GMT	DATE D.O.Y.	TIME ZZ LOC	SAMP LOC	CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1331	9	673		PCIC	B CACO3 SATUROMTR.	UCL	13 384N	106 187W	S BNFC02MV
1435	9	673		PCIC	E CACO3 SATUROMTR.	UCL	13 383N	106 181W	S BNFC02MV
1759	20	673		PCIC	B CACO3 SATUROMTR.	UCL	9 520N	109 89W	S BNFC02MV
147	21	673		PCIC	E CACO3 SATUROMTR.	UCL	9 535N	109 93W	S BNFC02MV
610	21	673		PCIC	B CACO3 SATUROMTR.	UCL	9 541N	109 104W	S BNFC02MV
1511	21	673		PCIC	E CACO3 SATUROMTR.	UCL	9 550N	109 126W	S BNFC02MV
1155	22	673		PCIC	B CACO3 SATUROMTR.	UCL	11 97N	109 367W	S BNFC02MV
2030	22	673		PCIC	E CACO3 SATUROMTR.	UCL	11 96N	109 344W	S BNFC02MV
710	23	673		PCIC	B CACO3 SATUROMTR.	UCL	11 124N	109 391W	S BNFC02MV
1010	23	673		PCIC	E CACO3 SATUROMTR.	UCL	11 112N	109 381W	S BNFC02MV
819	28	673		PCIC	B CACO3 SATUROMTR.	UCL	14 312N	117 167W	S BNFC02MV
1430	28	673		PCIC	E CACO3 SATUROMTR.	UCL	14 327N	117 154W	S BNFC02MV
2238	28	673		PCIC	B CACO3 SATUROMRT.	UCL	14 330N	117 153W	S BNFC02MV
651	29	673		PCIC	E CACO3 SATUROMTR.	UCL	14 346N	117 141W	S BNFC02MV

*** BATHYTHERMOGRAPH ****

TIME GMT	DATE D. M. Y.	TIME TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0	8 673		BTX	NO. SAMPLES=4	BTS	17 50.9N	105 30.8W	S BNFC02MV
0	9 673		BTX	NO. SAMPLES=3	BTS	14 29.6N	106 3.7W	S BNFC02MV
0	10 673		BTX	NO. SAMPLES=4	BTS	12 56.4N	108 43.9W	S BNFC02MV
0	11 673		BTX	NO. SAMPLES=5	BTS	10 56.8N	108 31.9W	S BNFC02MV
0	12 673		BTX	NO. SAMPLES=4	BTS	10 9.8N	109 1.W	S BNFC02MV
0	13 673		BTX	NO. SAMPLES=4	BTS	10 43.9N	109 7.5W	S BNFC02MV
0	14 673		BTX	NO. SAMPLES=3	BTS	11 10.5N	109 35.6W	S BNFC02MV
0	15 673		BTX	NO. SAMPLES=2	BTS	10 43.5N	108 32.6W	S BNFC02MV
0	16 673		BTX	NO. SAMPLES=4	BTS	10 36.9N	108 25.1W	S BNFC02MV
0	17 673		BTX	NO. SAMPLES=4	BTS	10 28.9N	108 41.4W	S BNFC02MV
0	18 673		BTX	NO. SAMPLES=2	BTS	10 12.4N	108 48.4W	S BNFC02MV
0	19 673		BTX	NO. SAMPLES=2	BTS	10 29.2N	109 .7W	S BNFC02MV
0	20 673		BTX	NO. SAMPLES=5	BTS	10 20.0N	109 38.8W	S BNFC02MV
0	21 673		BTX	NO. SAMPLES=4	BTS	9 53.1N	109 9.0W	S BNFC02MV
0	22 673		BTX	NO. SAMPLES=2	BTS	9 50.0N	109 8.1W	S BNFC02MV
0	23 673		BTX	NO. SAMPLES=4	BTS	11 9.6N	109 34.6W	S BNFC02MV
0	24 673		BTX	NO. SAMPLES=5	BTS	11 51.8N	109 56.8W	S BNFC02MV
0	25 673		BTX	NO. SAMPLES=3	BTS	12 22.5N	111 51.6W	S BNFC02MV
0	26 673		BTX	NO. SAMPLES=4	BTS	13 26.3N	114 9.0W	S BNFC02MV
0	27 673		BTX	NO. SAMPLES=3	BTS	14 19.6N	116 50.2W	S BNFC02MV
0	28 673		BTX	NO. SAMPLES=6	BTS	14 31.6N	117 14.7W	S BNFC02MV
0	29 673		BTX	NO. SAMPLES=2	BTS	14 34.1N	117 15.4W	S BNFC02MV
0	30 673		BTX	NO. SAMPLES=4	BTS	14 32.5N	117 19.2W	S BNFC02MV
0	1 773		BTX	NO. SAMPLES=3	BTS	14 34.8N	117 20.5W	S BNFC02MV
0	2 773		BTX	NO. SAMPLES=4	BTS	14 40.2N	119 13.9W	S BNFC02MV
0	3 773		BTX	NO. SAMPLES=2	BTS	15 .5N	120 45.0W	S BNFC02MV
0	4 773		BTX	NO. SAMPLES=3	BTS	16 27.7N	120 48.6W	S BNFC02MV
0	5 773		BTX	NO. SAMPLES=1	BTS	20 50.5N	119 48.8W	S BNFC02MV

99 END SAMPLE INDEX