

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

(Issued April 21, 1978)

GUAYMAS EXPEDITION

LEG 2

Guaymas, Sonora, Mexico (2 March 1978)
to
Guaymas, Sonora, Mexico (7 March 1978)

R/V T. Washington

Chief Scientist - L. Lawver (S.I.O.)*

Resident Marine Tech - R. Wilson

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Data Collection Funded by NSF
Grant Number OCE78-01664
Data Processing Funded by SIA, NSF and ONR

NOTE: This is an index of underway geophysical data edited and processed shortly after the completion of the cruise leg and is intended primarily for informal use within the institution. This document is not to be reproduced or distributed outside Scripps without prior approval of the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

GDC Cruise I.D.# 173

* On leave from the U. S. Geological Survey

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.

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).

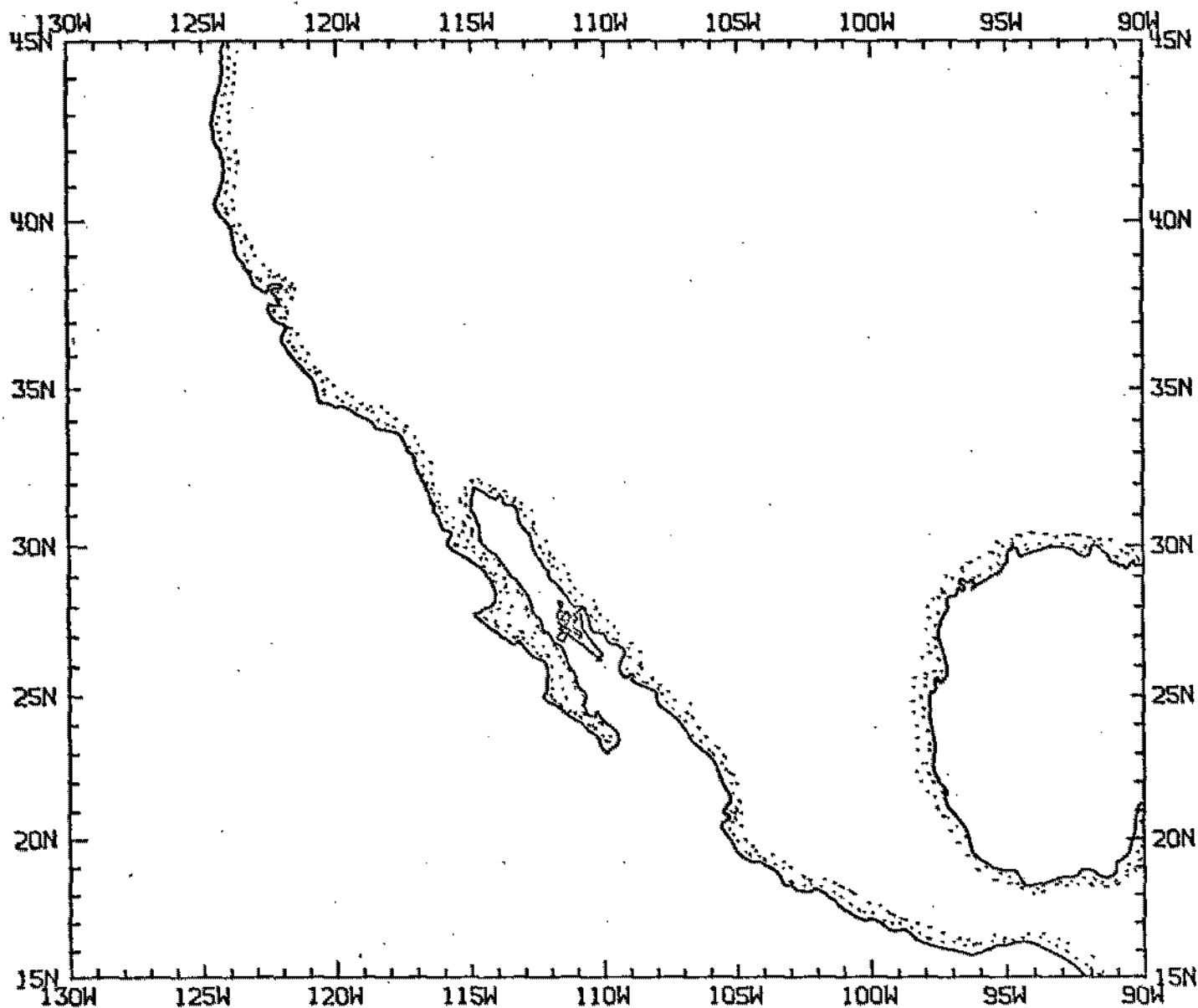
3. Plots of magnetic anomaly profiles along track - map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamm/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamm/inch; from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 IGRF.

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



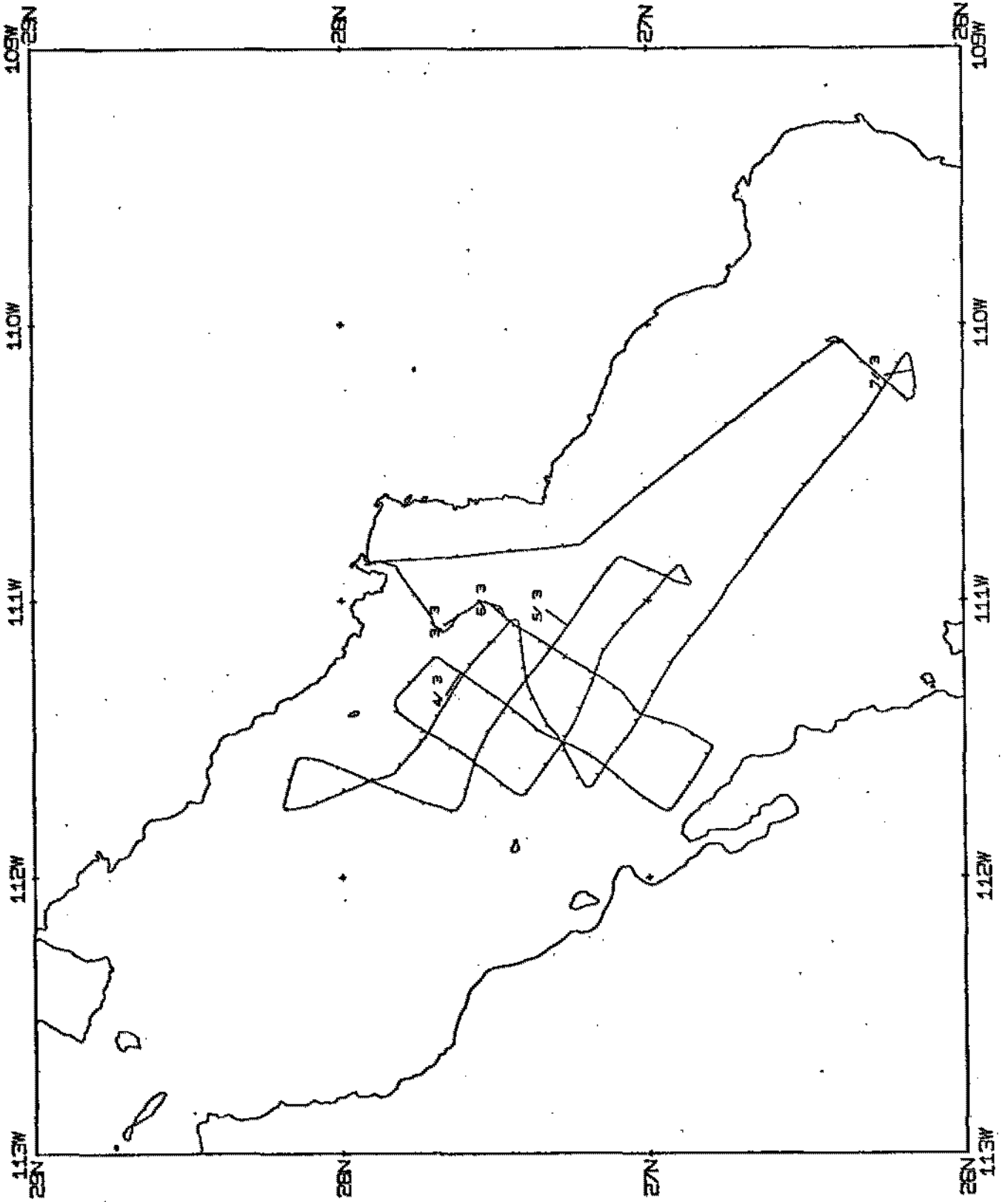
GUAYMAS EXPEDITION
LEG 2

Chief Scientist - L. Lawver (U.S. Geological Survey)
 Ports: Guaymas - Guaymas, Mexico
 Dates: 2 March - 7 March 1978
 Ship: R/V T. Washington

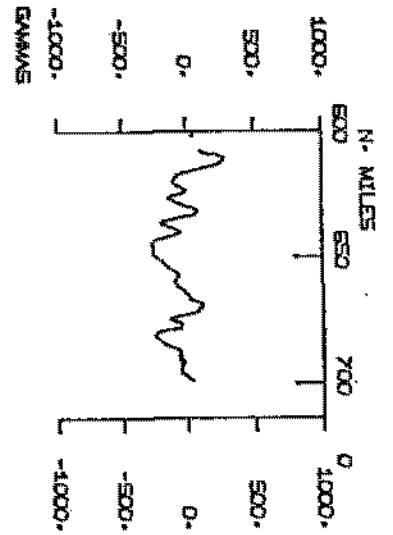
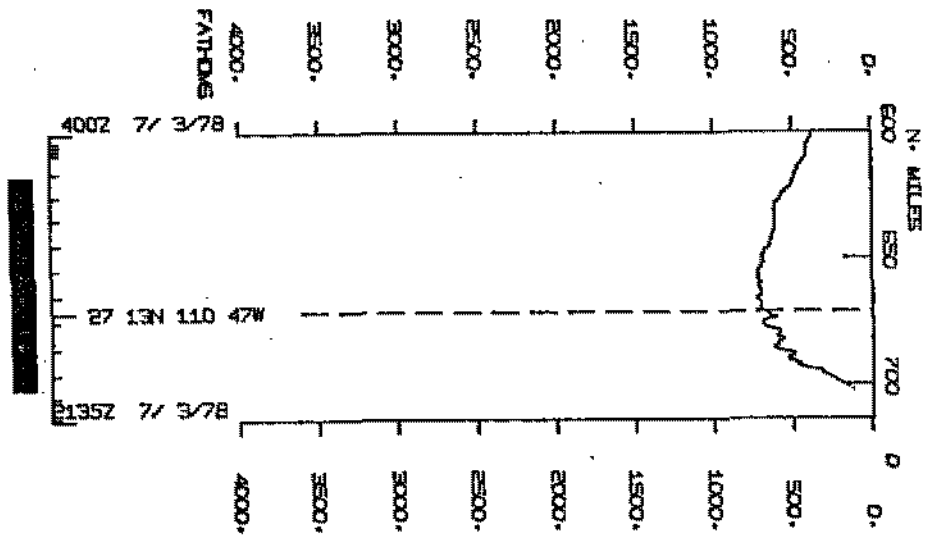
TOTAL MILEAGE

- 1) Cruise - 719 miles
- 2) Bathymetry - 694 miles
- 3) Magnetics - 661 miles
- 4) Seismic Reflection - 643 miles
- 5) 24 Channel Digital Seismic Profiling - 570 miles
- 6) Gravity - Collected

WJAYDEWT TRACK PLOT (1 OF 1)



GUAYMAS LEG 2



S.I.O. SAMPLE INDEX

(Issued April 21, 1978)

GUAYMAS EXPEDITION

LEG 2

Guaymas, Sonora, Mexico (2 March 1978)

to

Guaymas, Sonora, Mexico (7 March 1978)

R/V T. Washington

Chief Scientist - L. Lawver (U.S. Geological Survey)

Resident Marine Tech - R. Wilson

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Index Encoding Funded by NSF
Grant Number OCE77-23704
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 on shore 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.)

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

DISP	TYPE								TOTAL
	DP	GV	LB	MG	PE	SP	SR		
GDC	I	6		1	1		4	I	12
GRD	I					2		I	2
GSU	I					1		I	1
LMD	I		3					I	3
MPL	I					2		17	19
MTG	I					2		I	2
SCG	I					3	1	I	4
SGG	I					2		I	2
SIO	I					1		I	1
SIX	I					2		I	2
WHO	I					1		I	1
TOTAL	I	6	3	1	1	16	5	17	49

SAMPLE 'TYPE' CODES USED ABOVE

DP = DEPTH
 GV = GRAVITY
 LB = LOG BOOKS
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
 PE = PERSONNEL IN SCIENTIFIC PARTY
 SP = SEISMIC REFLECTION PROFILE AIRGUN
 SR = SEISMIC STATION - SHOOTING RUN

SAMPLE 'DISP' CODES USED ABOVE

GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
 GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
 GSU = U.S. GEOLOGICAL SURVEY
 LMD = LEROY M. DORMAN (EXT. 2406)
 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)
 WHO = WOODS HOLE OCEANOGRAPHIC INSTITUTION

SAMPLE INDEX GUAYMAS 02

GUAY02WT

*** PORTS ***

1248	2	378	LGPT B	GUAYMAS, SON. MEXICO	27 55 N 110 552W	F	GUAY02WT
2000	7	378	LGPT E	GUAYMAS, SON. MEXICO	27 55 N 110 552W	F	GUAY02WT

PERSONNEL

PECS	LAWVER, L.	MPL	GUAY02WT
PERT	WILSON, R.	MTG	GUAY02WT
PEAT	CRAMPTON, P.	SGG	GUAY02WT
PEAT	HUBENKA, F.	SGG	GUAY02WT
PECT	ABBOTT, L.	SCG	GUAY02WT
PECT	BURKHALTER, A.	SCG	GUAY02WT
PECT	MOE, R.	SCG	GUAY02WT
PENT	COMER, R.	MTG	GUAY02WT
PEXN	ACOSTA, C.	SIX	GUAY02WT
PEXN	CARREON, H.	SIX	GUAY02WT
PE	CRANE, K.	WHO	GUAY02WT
PES	BECKER, K.	MPL	GUAY02WT
PE	BODIN, P.	GRD	GUAY02WT
PE	MOORE, G.	GRD	GUAY02WT
PE	WILLIAMS, D.	GSU	GUAY02WT
PE	VACQUIER, V.	SID	GUAY02WT

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

*** NOTE *** AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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UNDERWAY DATA CURATOR - STUART M. SMITH (EXT. 2752)

*** LOG BOOKS ***

1445	020378			LBW	B UNDERWAY WATCH LOG	GDC 27	432N	111 24W	S GUAYO2WT
1845	070378			LBW	E UNDERWAY WATCH LOG	GDC 27	441N	110 50BW	S GUAYO2WT

*** FATHOGRAMS ***

1422	2 378			DPRT	B GDR 12 KHZ R-01	GDC 27	432N	111 24W	S GUAYO2WT
635	4 378			DPRT	E GDR 12 KHZ R-01	GDC 27	306N	111 377W	S GUAYO2WT
637	4 378			DPRT	B GDR 12 KHZ R-02	GDC 27	304N	111 379W	S GUAYO2WT
1611	6 378			DPRT	E GDR 12 KHZ R-02	GDC 26	365N	110 446W	S GUAYO2WT
1620	6 378			DPRT	B GDR 12 KHZ R-03	GDC 26	360N	110 438W	S GUAYO2WT
1840	7 378			DPRT	E GDR 12 KHZ R-03	GDC 27	438N	110 508W	S GUAYO2WT
1429	2 378			DPR3	B UGR 3.5KHZ R-01	GDC 27	425N	111 36W	S GUAYO2WT
1226	3 378			DPR3	E UGR 3.5KHZ R-01	GDC 26	547N	111 271W	S GUAYO2WT
1235	3 378			DPR3	B UGR 3.5KHZ R-02	GDC 26	538N	111 275W	S GUAYO2WT
1746	5 378			DPR3	E UGR 3.5KHZ R-02	GDC 27	493N	111 366W	S GUAYO2WT
1757	5 378			DPR3	B UGR 3.5KHZ R-03	GDC 27	486N	111 357W	S GUAYO2WT
1845	7 378			DPR3	E UGR 3.5KHZ R-03	GDC 27	441N	110 508W	S GUAYO2WT

*** MAGNETOMETER ***

506	3 378			MGR	B MAGNETICS R-01	GDC 27	285N	111 17W	S GUAYO2WT
1829	7 378			MGR	E MAGNETICS R-01	GDC 27	428N	110 507W	S GUAYO2WT

*** SEISMIC REFLECTION PROFILES ***

520	3 378			SPRF	B SEIS PROF 2SEC R-01	GDC 27	282N	111 26W	S GUAYO2WT
407	7 378			SPRF	E SEIS PROF 2SEC R-01	GDC 26	235N	110 27W	S GUAYO2WT
915	7 378			SPRF	B SEIS PROF 2SEC R-02	GDC 26	243N	110 40W	S GUAYO2WT
1832	7 378			SPRF	E SEIS PROF 2SEC R-02	GDC 27	432N	110 507W	S GUAYO2WT

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
520	3	378		SPRS B	SEIS PROF 5SEC R-01	GDC 27	282N	111 26W	S GUAYO2WT
407	7	378		SPRS E	SEIS PROF 5SEC R-01	GDC 26	235N	110 27W	S GUAYO2WT
930	7	378		SPRS B	SEIS PROF 5SEC R-02	GDC 26	261N	110 55W	S GUAYO2WT
1832	7	378		SPRS E	SEIS PROF 5SEC R-02	GDC 27	432N	110 507W	S GUAYO2WT

GRAVIMETRIC RECORDS CURATOR L.M. DORMAN (EXT.2406)

1248	2	378		GVR B	GRAVITYMETER R-01	LMD 27	540N	110 515W	S GUAYO2WT
355	4	378		GVR E	GRAVITYMETER R-01	LMD 27	447N	111 277W	S GUAYO2WT
402	4	378		GVR B	GRAVITYMETER R-02	LMD 27	441N	111 281W	S GUAYO2WT
130	7	378		GVR E	GRAVITYMETER R-02	LMD 26	121N	110 144W	S GUAYO2WT
135	7	378		GVR B	GRAVITYMETER R-03	LMD 26	125N	110 141W	S GUAYO2WT
1845	7	378		GVR E	GRAVITYMETER R-03	LMD 27	441N	110 508W	S GUAYO2WT

MULTI-CHANNEL DIGITAL SEISMIC TAPE

532	3	378		SPML B	MULTI CHAN LINE 2	SCG 27	279N	111 34W	S GUAYO2WT
0411	7	378		SPML E	MULTI CHAN LINE 2	SCG 26	239N	110 024W	S GUAYO2WT

*** SONOBUOY DROP *** SEISMIC REFRACTION MONITORING

700	3	378		SRSB	SONOBUOY 1	MPL 27	210N	111 85W	S GUAYO2WT
1055	3	378		SRSB	SONOBUOY 2	MPL 27	29N	111 230W	S GUAYO2WT
1127	3	378		SRSB	SONOBUOY 3	MPL 27	5N	111 249W	S GUAYO2WT
1958	3	378		SRSB	SONOBUOY 4	MPL 27	161N	111 308W	S GUAYO2WT
2112	3	378		SRSB	SONOBUOY 5	MPL 27	226N	111 269W	S GUAYO2WT
124	4	378		SRSB	SONOBUOY 6	MPL 27	439N	111 146W	S GUAYO2WT
930	4	378		SRSB	SONOBUOY 7	MPL 27	179N	111 325W	S GUAYO2WT
26	5	378		SRSB	SONOBUOY 8	MPL 27	168N	111 74W	S GUAYO2WT
242	5	378		SRSB	SONOBUOY 9	MPL 27	264N	111 207W	S GUAYO2WT
700	5	378		SRSB	SONOBUOY 10	MPL 27	386N	111 452W	S GUAYO2WT
728	5	378		SRSB	SONOBUOY 11	MPL 27	411N	111 444W	S GUAYO2WT
1610	5	378		SRSB	SONOBUOY 12	MPL 27	585N	111 407W	S GUAYO2WT
1628	5	378		SRSB	SONOBUOY 13	MPL 27	569N	111 400W	S GUAYO2WT
2015	5	378		SRSB	SONOBUOY 14	MPL 27	406N	111 235W	S GUAYO2WT
511	6	378		SRSB	SONOBUOY 15	MPL 27	157N	111 334W	S GUAYO2WT
1840	6	378		SRSB	SONOBUOY 16	MPL 26	273N	110 314W	S GUAYO2WT
2030	6	378		SRSB X	SONOBUOY 17	MPL 26	201N	110 221W	S GUAYO2WT
128	7	378		SRSB	SONOBUOY 18	MPL 26	120N	110 145W	S GUAYO2WT

9900

END SAMPLE INDEX

GUAYO2WT