

INFORMAL REPORT AND INDEX OF  
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA  
(Issued November 1989)

VENTURE EXPEDITION

LEG 2

-----

R/V Washington

Manzanillo, Mexico (6 October 1989)  
to  
Manzanillo, Mexico (7 November 1989)

Co-Chief Scientists:

J. Bender - University of North Carolina  
C. Langmuir - Lamont-Doherty Geological Observatory

Resident Marine Technician - Ron Comer

Post-Cruise Processing and Report Preparation  
by Geological Data Center, Scripps Institution of Oceanography

Data Collection and Processing Funded by:  
NSF Grant Number OCE87-02835

NOTE: This is an index of underway geophysical data edited and processed 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 chief scientist or the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

GDC Cruise I.D.# 245

INFORMAL REPORT AND INDEX OF NAVIGATION  
AND UNDERWAY GEOPHYSICAL DATA

Processed by the Geological Data Center  
Scripps Institution of Oceanography

Contents:

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- Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.
- Track Charts - annotated with dates and hour ticks.
- Profiles - depth, magnetic anomaly and gravity free air anomaly vs. distance. Sections of track having subbottom profiles (airgun or watergun) records have a wide black line along the bottom of the profile. Sections having Sea Beam are indicated by a narrow black line.
- Sample Index - list of beginning and end times and positions of all underway records as well as all other samples and measurements (geology, biology, physical oceanography, etc.) collected on the cruise leg.

NOTE: One or more of the underway data types may not be collected on a given cruise leg.

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, CA 92093. Phone (619)534-2752.

1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (2 $\frac{2}{3}$  degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of depths, magnetics or gravity profiles along track - custom plots at various map and profile scales on Mercator projection may be requested.
4. Separate time series files of navigation, depth, gravity and magnetics as well as these data merged in the MGD77 Exchange format on magnetic tape.
5. Microfilm or Xerox copies of:
  - a. Echosounder records - 12 and 3.5 kHz frequency
  - b. Subbottom profiler records
  - c. Magnetometer records
  - d. Underway data log book

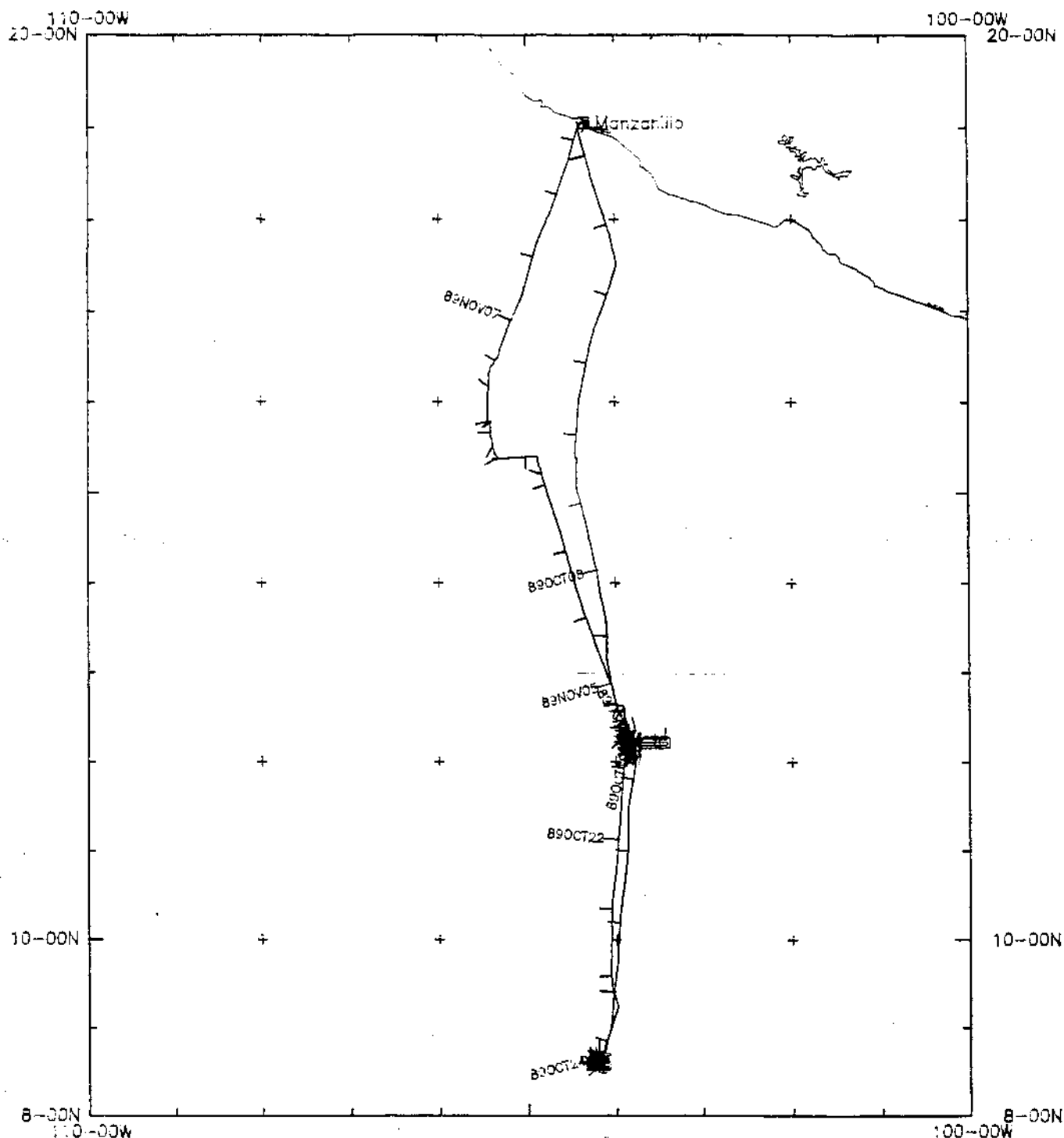
Revised September 1987

## SIO Sea Beam Data

The following forms are available, subject to approval of the cruise leg chief scientist:

- 1) Archive copy of contour swath books generated in real time on board ship available for inspection at the data center.
- 2) Microfilm (35mm flowfilm) containing swath books plus, for some cruises, the Sea Beam monitor record and navigation list.
- 3) Sea Beam merged tapes - Sea Beam data merged with navigation. (Navigation is edited to the extent that DR courses and speeds are edited and poor fixes are removed after inspection of drift vectors between fix pairs. No editing is done on the basis of adjusting to overlapping Sea Beam swaths.)
- 4) Archive contour plots - 16"/degree chart scale, with contour interval nominally 50m, are generated for all transit lines. Some survey areas are plotted at appropriate scales as well. Available for inspection at data center; additional copies may be generated from plot files stored on tape.
- 5) Custom generated plots of Sea Beam swaths on Mercator projection in four colors at variable plot scales and contour intervals. There are provisions to adjust positions of individual track lines and to edit out beams (bad data or overlapping data on inside of turns).

revised October 1986



### VENTURE EXPEDITION LEG 2

#### CO-CHIEF SCIENTISTS:

J. Bender - University of North Carolina

C. Langmuir - Lamont-Doherty Geological Observatory

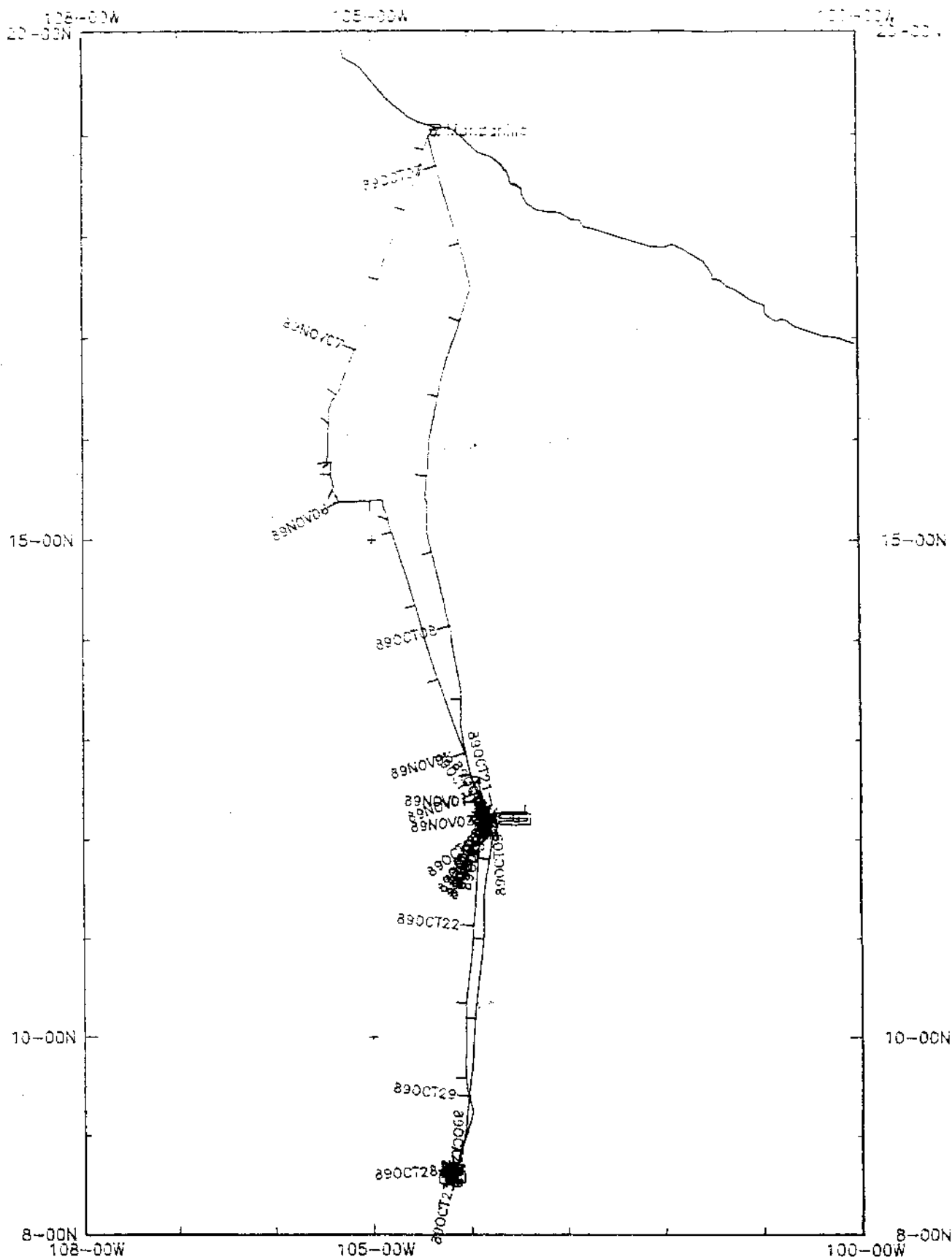
PORTS: Manzanillo - Manzanillo, Mexico

DATES: 6 October - 7 November 1989

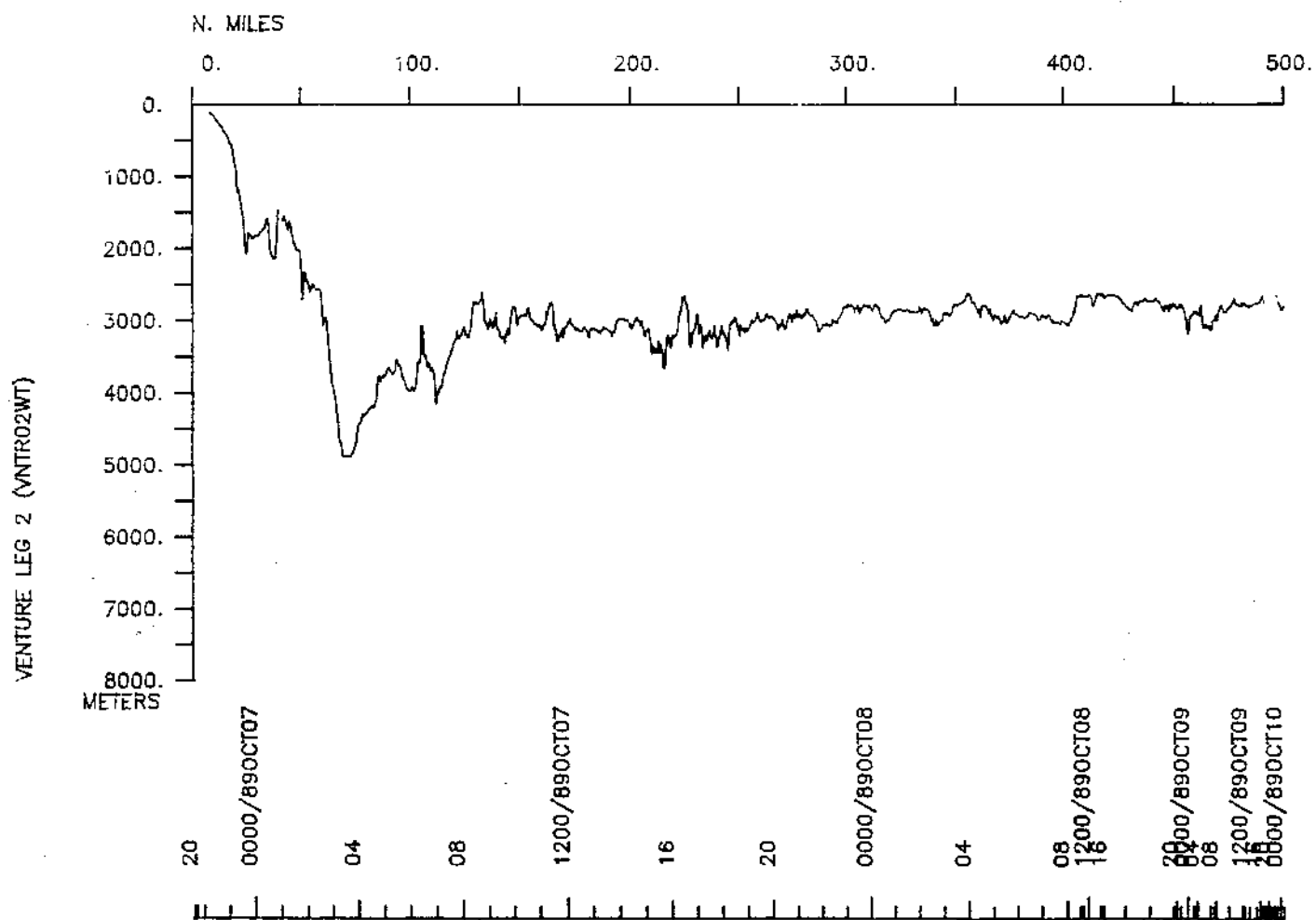
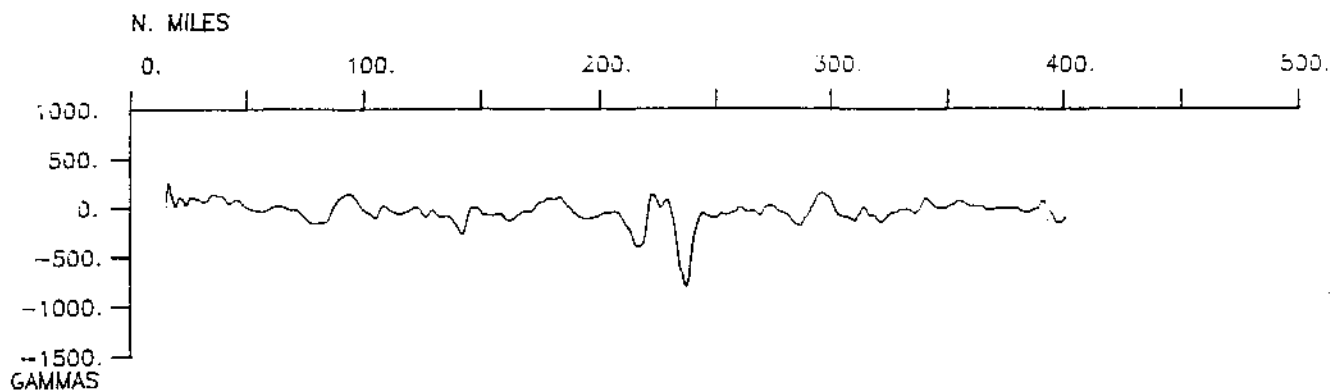
SHIP: R/V T. Washington

#### TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

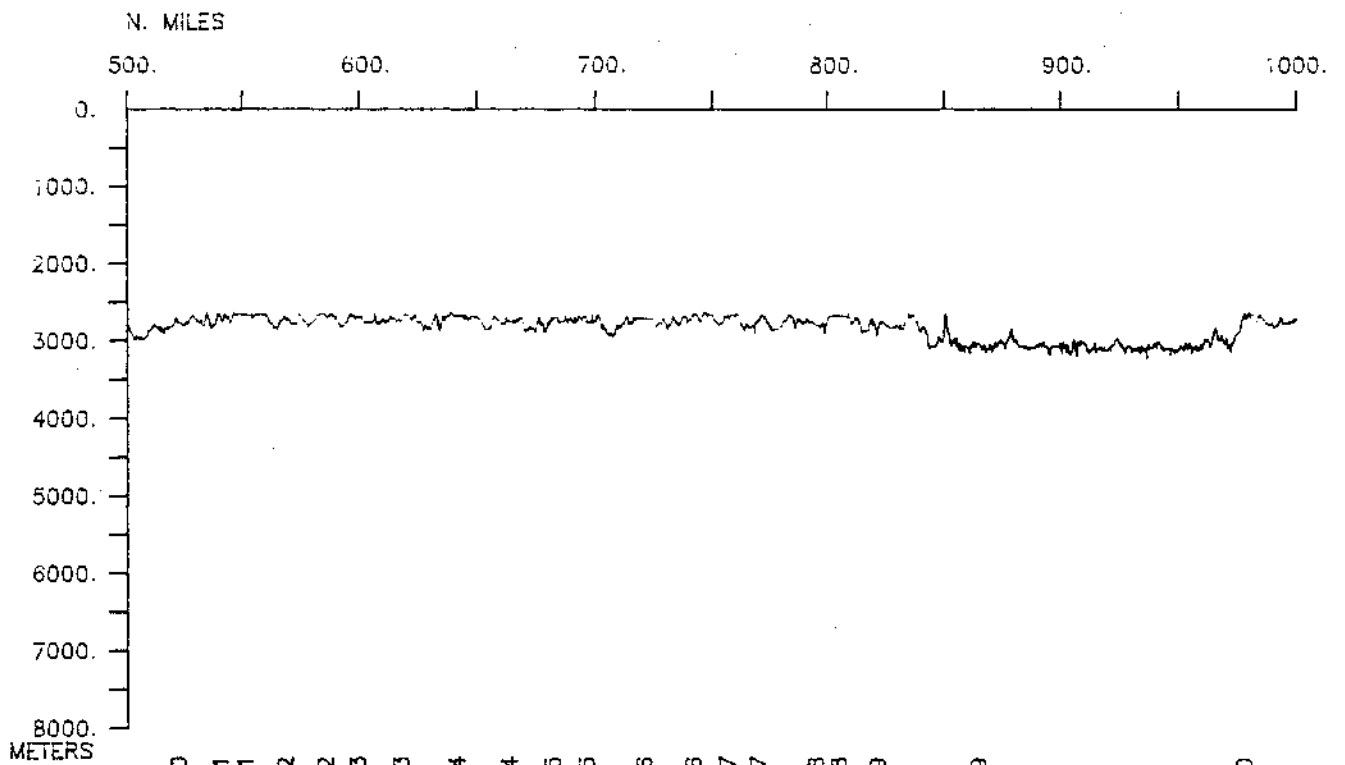
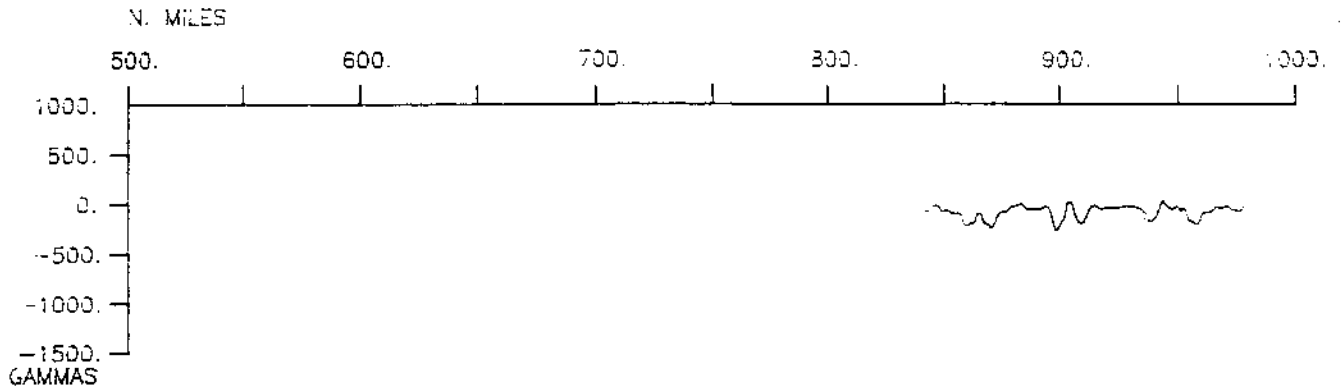
- 1) Cruise - 2650 miles
- 2) Bathymetry - 2630 miles
- 3) Magnetics - 1375 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - collected but not processed
- 6) Sea Beam - 2630 miles



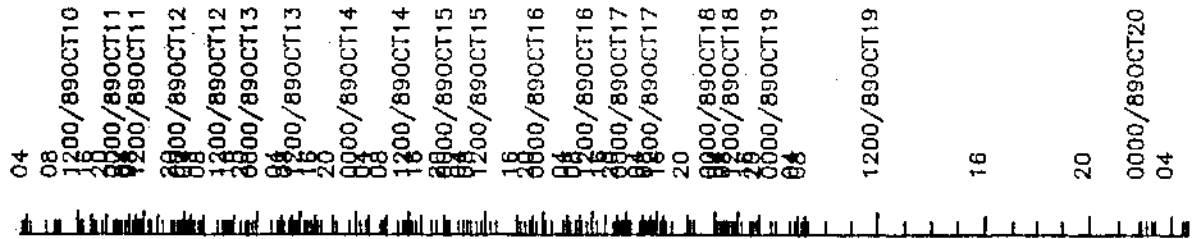
VENTURE LEG 2

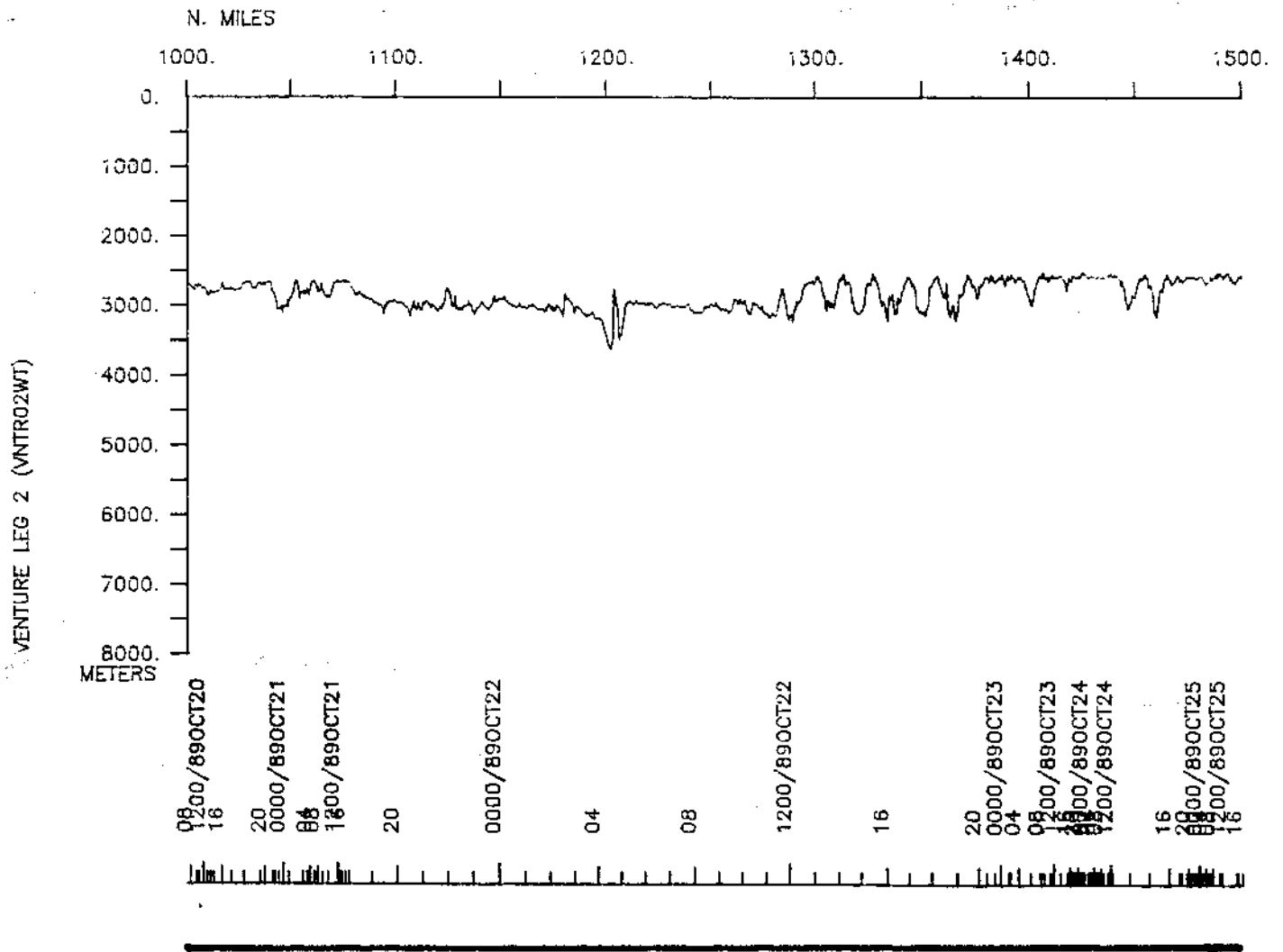
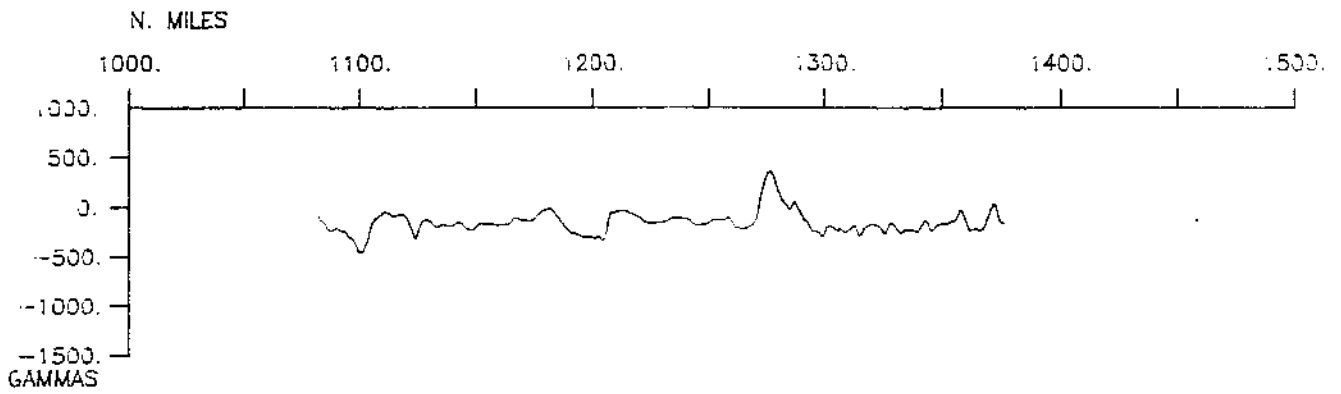


SEABEAM

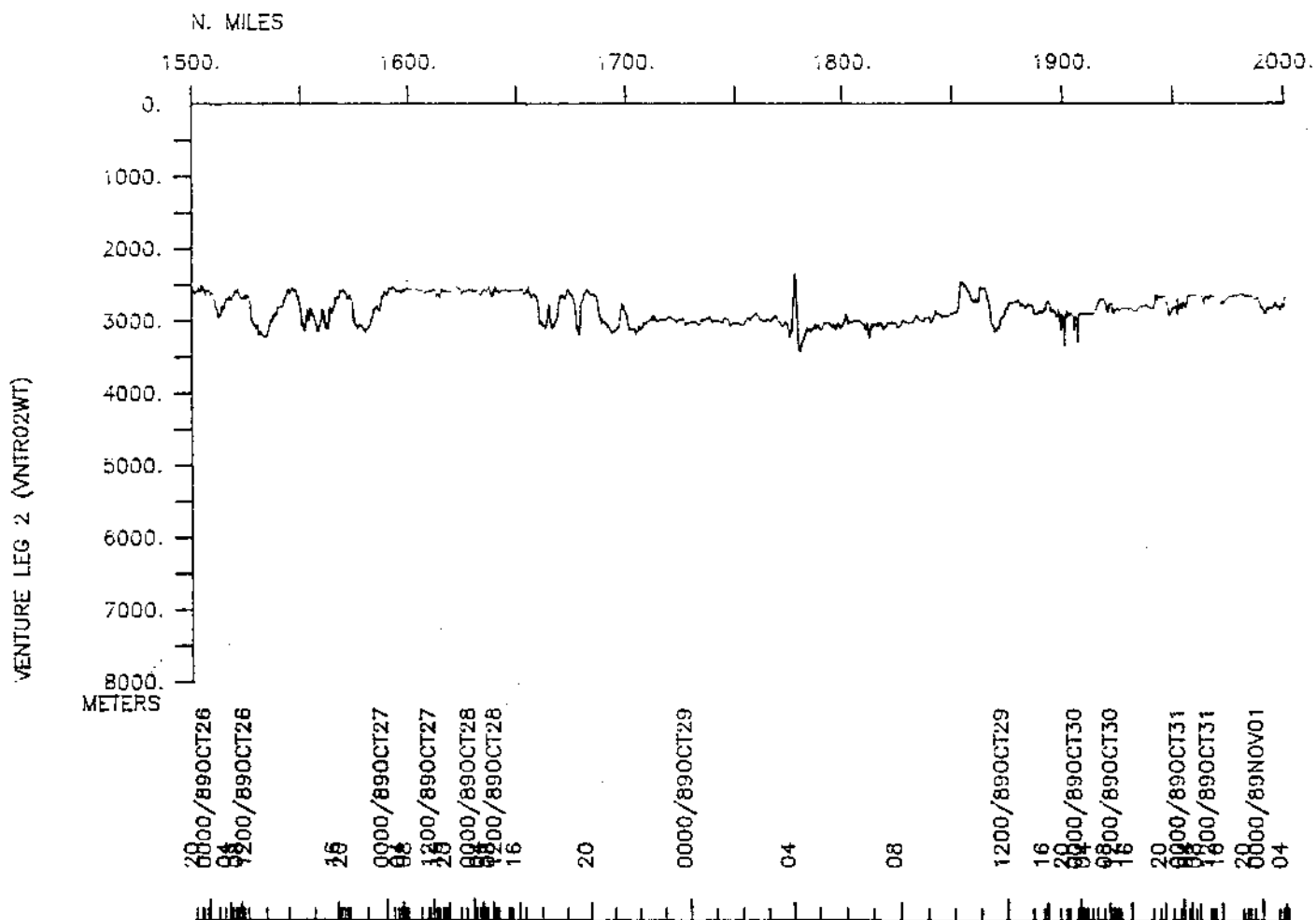
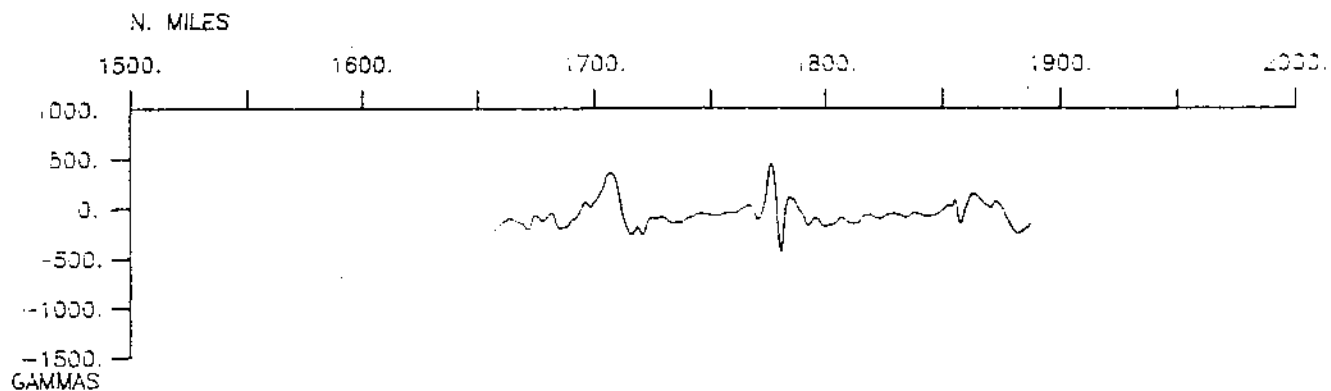


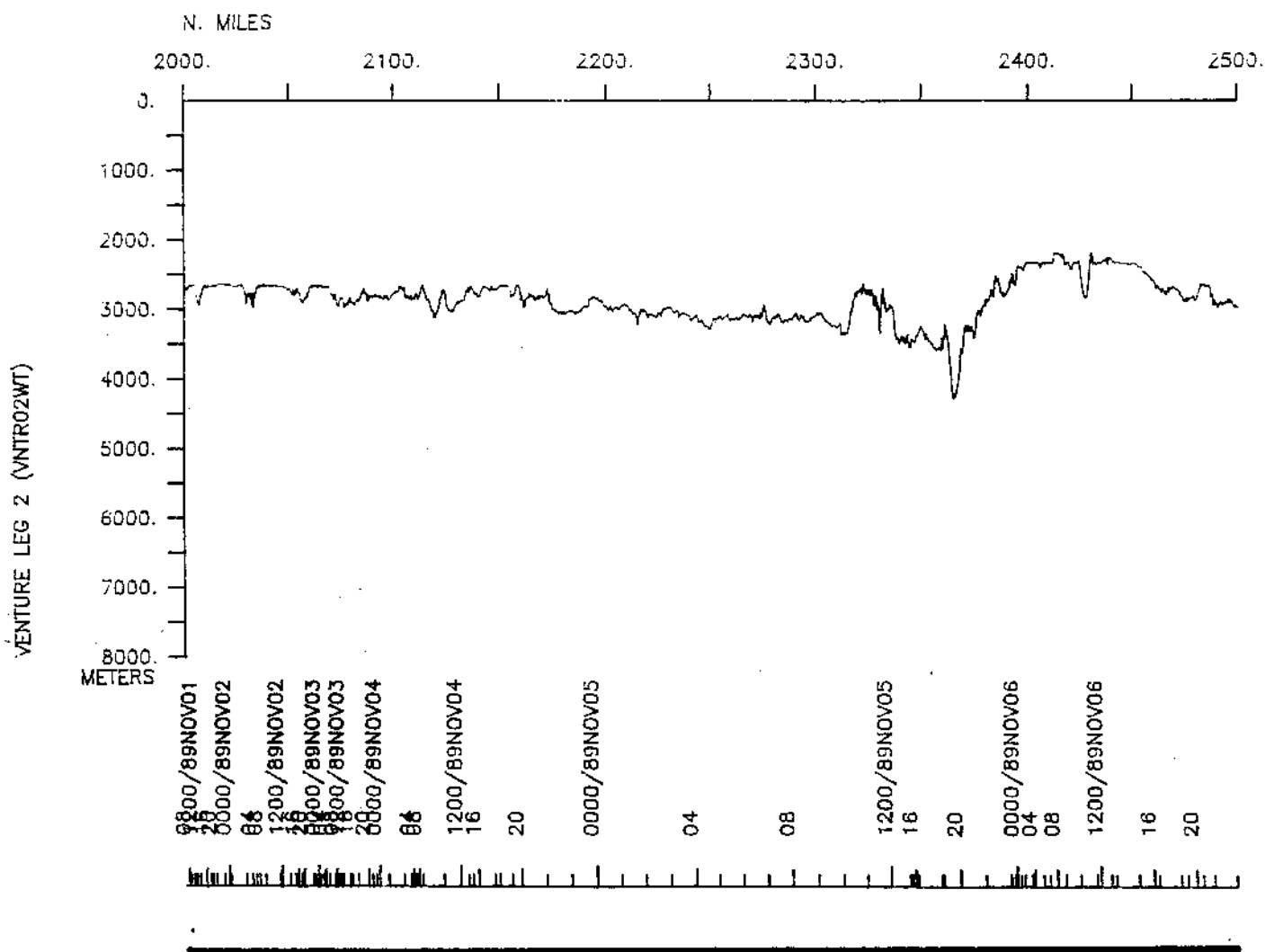
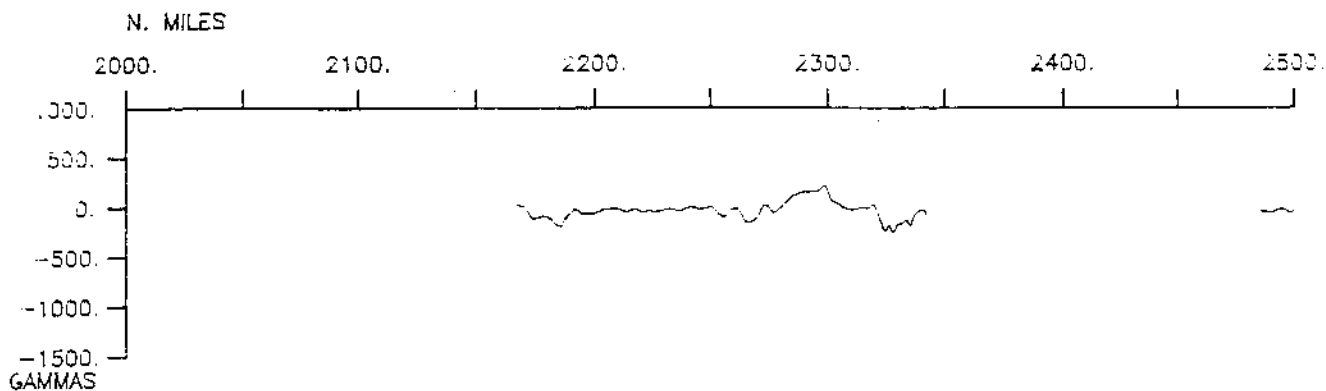
VENTURE LEG 2 (VNTRO2WT)

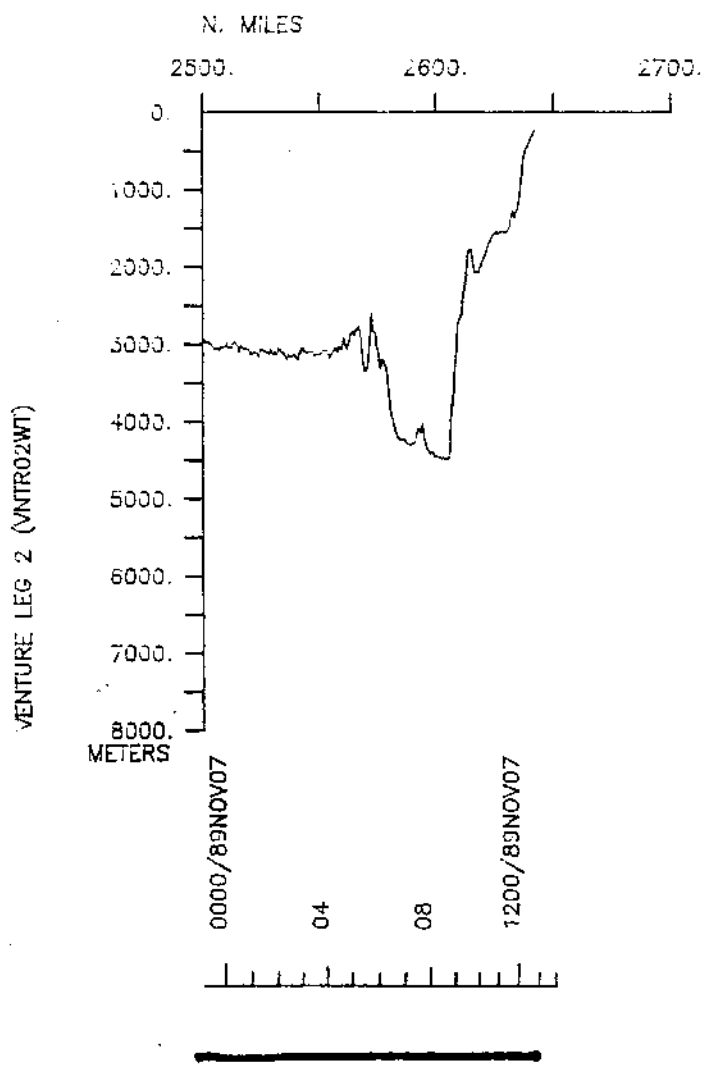
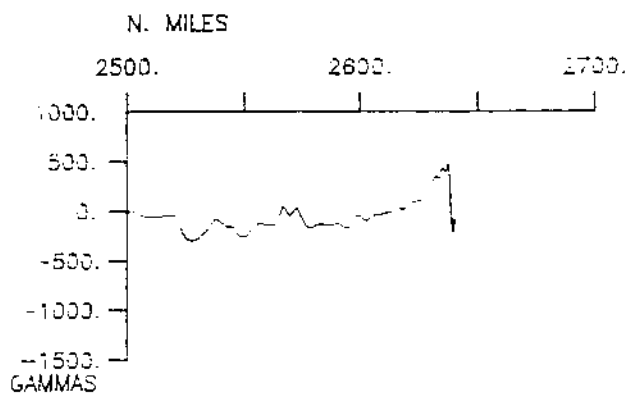












# S.I.O. SAMPLE INDEX

(Issued November 1989)

## VENTURE EXPEDITION

Leg 2

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R/V T. Washington

Manzanillo, Mexico (6 October 1989)  
to  
Manzanillo, Mexico (7 November 1989)

Co-Chief Scientists:

J. Bender (University of North Carolina)

C. Langmuir (Lamont-Doherty Geological Observatory)

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 marine 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 lines. Disposition and sample type are represented by three and four character codes to permit further computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

GDC Cruise I.D.# 245

## \*\*\* PORTS \*\*\*

2132	061089	LGPT B MANZANILLO, MEXICO	19-03 N 104-20 W	sVNTR02WT
1440	071189	LGPT E MANZANILLO, MEXICO	19-03 N 104-20 W	sVNTR02WT

## \*\*\*PERSONNEL\*\*\*

	***NAME***	***TITLE***	***AFFILIATION***	**CRID**
PECS SIX	BENDER, DR. J.	CO-CHIEF SCIENT.	U.OF NO. CAROLINA	VNTR02WT
PECS LDO	LANGMUIR, DR. C.	CO-CHIEF SCIENT.	LAMONT-DOHERTY	VNTR02WT
PESP LDO	KASTENS, DR. K.	RESEARCH SCIENT.	LAMONT-DOHERTY	VNTR02WT
PESP LDO	RYAN, DR. B.	SR. RES. SCIENT.	LAMONT-DOHERTY	VNTR02WT
PEXN LDO	HUMMLER, DR. E.	POST DOC.	FRANCE	VNTR02WT
PESP LDO	BARONE, DR. A.	POST DOC.	LAMONT-DOHERTY	VNTR02WT
PEXN FNC	VASLET, DR. N.	POST DOC.	FRANCE	VNTR02WT
PERT STS	COMER, R. L.	RESIDENT TECH.	SCRIPPS INSTITUTION	VNTR02WT
PECT STS	CHARTERS, J.	COMPUTER TECH.	SCRIPPS INSTITUTION	VNTR02WT
PEBO STS	SMITH, W.	SEA BEAM OPER.	SCRIPPS INSTITUTION	VNTR02WT
PEBE STS	HOWARD, A.	SEA BEAM ENG.	SCRIPPS INSTITUTION	VNTR02WT
PECT LDO	CHAYES, D.	ELECT. TECH.	SCRIPPS INSTITUTION	VNTR02WT
SP SIX	TOTH, J.	CONSULTANT	ANALYTICAL SERVICE CO.	VNTR02WT
PEMT LDO	THATCHER, M.	MARINE TECH.	LAMONT-DOHERTY	VNTR02WT
PEST LDO	EDWARDS, M.	GRAD. STUDENT	LAMONT-DOHERTY	VNTR02WT
PEST LDO	PLANK, T.	GRAD. STUDENT	LAMONT-DOHERTY	VNTR02WT
PESP LDO	EBERHART, G.	TECHNICIAN	LAMONT-DOHERTY	VNTR02WT
PEST LDO	REYNOLDS, J.	GRAD. STUDENT	LAMONT-DOHERTY	VNTR02WT
PEXN MEX	DELGADO, L.	GRAD. STUDENT	MEXICO	VNTR02WT
PEXN MEX	MARTIN, A.	GRAD. STUDENT	MEXICO	VNTR02WT
PEST SIX	BANKS, P.	STUDENT	U.OF NO. CAROLINA	VNTR02WT
PEST SIX	DAVIDSON, L.	STUDENT	U.OF NO. CAROLINA	VNTR02WT

## \*\*\*NOTES\*\*\*

#AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO  
 #SAMPLE OR DATA RECOVERED. A 'C' INDICATES CONTINUATION OF DATA COLLECTION  
 #FROM BEFORE THE BEGINNING OR AFTER THE END OF A PARTICULAR LEG. (MOORED  
 #BOTTOM INSTRUMENTS, FOR EXAMPLE.) THE NUMBER APPEARING IN THE COLUMNS  
 #BETWEEN THE SAMPLE IDENTIFIER AND THE DISPOSITION CODE, FOR MANY SAMPLE  
 #ENTRIES, IS THE WATER DEPTH IN CORRECTED METERS. POSITIONS ARE IN TENTHS  
 #OF MINUTES.

#GMT	DDMMYY	LOC T	SAMP	SAMPLE	DISP			CRUISE
#TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP

-----

\*\*\*UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752

\*\*\*LOG BOOKS\*\*\*

2138	061089		LBUW B	UNDERWAY WATCH LOG	GDC 19-038N	104-183W	sVNTR02WT
1256	071189		LBUW E	UNDERWAY WATCH LOG	GDC 18-591N	104-243W	sVNTR02WT

\*\*\* MAGNETIC (EARTH TOTAL FIELD) RECORDS \*\*\*

2250	061089		MGRA B	MAGNETOMETER ROLL-01	GDC 18-548N	104-232W	sVNTR02WT
1241	071189		MGRA E	MAGNETOMETER ROLL-01	GDC 18-570N	104-250W	sVNTR02WT

\*\*\* ECHO SOUNDER RECORDS \*\*\*

2140	061089		DPR3 B	3.5KHZ ROLL-01	GDC 19-037N	104-184W	sVNTR02WT
0213	071189		DPR3 E	3.5KHZ ROLL-01	GDC 17-164N	105-007W	sVNTR02WT

\*\*\* ECHO SOUNDER RECORDS - SEABEAM MONITOR \*\*\*

2214	061089		MBMR B	SEABEAM 12 KHZ R-01	GDC 19-012N	104-226W	sVNTR02WT
1931	071089		MBMR E	SEABEAM 12 KHZ R-01	GDC 14-582N	104-247W	sVNTR02WT
1939	071089		MBMR B	SEABEAM 12 KHZ R-02	GDC 14-567N	104-243W	sVNTR02WT
0055	111089		MBMR E	SEABEAM 12 KHZ R-02	GDC 12-115N	103-504W	sVNTR02WT
0057	111089		MBMR B	SEABEAM 12 KHZ R-03	GDC 12-115N	103-505W	sVNTR02WT
1903	111089		MBMR E	SEABEAM 12 KHZ R-03	GDC 12-079N	103-490W	sVNTR02WT
1905	111089		MBMR B	SEABEAM 12 KHZ R-04	GDC 12-079N	103-490W	sVNTR02WT
1143	121089		MBMR E	SEABEAM 12 KHZ R-04	GDC 12-100N	103-497W	sVNTR02WT
1200	121089		MBMR B	SEABEAM 12 KHZ R-05	GDC 12-098N	103-496W	sVNTR02WT
0732	141089		MBMR E	SEABEAM 12 KHZ R-05	GDC 12-106N	103-508W	sVNTR02WT
0745	141089		MBMR B	SEABEAM 12 KHZ R-06	GDC 12-105N	103-506W	sVNTR02WT
2224	151089		MBMR E	SEABEAM 12 KHZ R-06	GDC 12-043N	103-490W	sVNTR02WT
2230	151089		MBMR B	SEABEAM 12 KHZ R-07	GDC 12-043N	103-490W	sVNTR02WT
0319	171089		MBMR E	SEABEAM 12 KHZ R-07	GDC 12-152N	103-549W	sVNTR02WT

#GMT #TIME #	DDMMYY DATE -----	LOC T TIME Z -----	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0329	171089		MBMR B	SEABEAM 12 KHZ R-08	GDC	12-153N	103-548W	sVNTR02WT
1310	171089		MBMR E	SEABEAM 12 KHZ R-08	GDC	12-177N	103-512W	sVNTR02WT
1316	181089		MBMR B	SEABEAM 12 KHZ R-09	GDC	12-093N	103-497W	sVNTR02WT
0658	201089		MBMR E	SEABEAM 12 KHZ R-09	GDC	12-046N	103-492W	sVNTR02WT
0713	201089		MBMR B	SEABEAM 12 KHZ R-10	GDC	12-047N	103-494W	sVNTR02WT
1200	221089		MBMR E	SEABEAM 12 KHZ R-10	GDC	8-509N	104-070W	sVNTR02WT
1205	221089		MBMR B	SEABEAM 12 KHZ R-11	GDC	8-500N	104-073W	sVNTR02WT
0100	241089		MBMR E	SEABEAM 12 KHZ R-11	GDC	8-402N	104-131W	sVNTR02WT
0102	241089		MBMR B	SEABEAM 12 KHZ R-12	GDC	8-401N	104-130W	sVNTR02WT
1447	251089		MBMR E	SEABEAM 12 KHZ R-12	GDC	8-392N	104-136W	sVNTR02WT
0453	251089		MBMR B	SEABEAM 12 KHZ R-13	GDC	8-392N	104-136W	sVNTR02WT
0018	271089		MBMR E	SEABEAM 12 KHZ R-13	GDC	8-292N	104-118W	sVNTR02WT
0026	271089		MBMR B	SEABEAM 12 KHZ R-14	GDC	8-293N	104-117W	sVNTR02WT
0113	291089		MBMR E	SEABEAM 12 KHZ R-14	GDC	9-381N	104-000W	sVNTR02WT
0117	291089		MBMR B	SEABEAM 12 KHZ R-15	GDC	9-389N	103-599W	sVNTR02WT
0258	311089		MBMR E	SEABEAM 12 KHZ R-15	GDC	12-163N	103-517W	sVNTR02WT
0305	311089		MBMR B	SEABEAM 12 KHZ R-16	GDC	12-163N	103-517W	sVNTR02WT
0943	011189		MBMR E	SEABEAM 12 KHZ R-16	GDC	12-183N	103-519W	sVNTR02WT
0943	011189		MBMR B	SEABEAM 12 KHZ R-17	GDC	12-183N	103-519W	sVNTR02WT
2132	021189		MBMR E	SEABEAM 12 KHZ R-17	GDC	12-157N	103-514W	sVNTR02WT
2138	021189		MBMR B	SEABEAM 12 KHZ R-18	GDC	12-155N	103-506W	sVNTR02WT
1932	041189		MBMR E	SEABEAM 12 KHZ R-18	GDC	12-190N	103-502W	sVNTR02WT
1937	041189		MBMR B	SEABEAM 12 KHZ R-19	GDC	12-191N	103-508W	sVNTR02WT
0407	071189		MBMR E	SEABEAM 12 KHZ R-19	GDC	17-362N	104-549W	sVNTR02WT
0410	071189		MBMR B	SEABEAM 12 KHZ R-20	GDC	17-368N	104-548W	sVNTR02WT
1256	071189		MBMR E	SEABEAM 12 KHZ R-20	GDC	18-591N	104-243W	sVNTR02WT

#GMT	DDMMYY	LOC T	SAMP	SAMPLE	DISP				CRUISE
#TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP	

\*\*\*\* SEABEAM SWATH BOOKS \*\*\*\*

2220	061089		MBSB B	SEABEAM SWATH BOOK 1	GDC	19-002N	104-234W	sVNTR02WT
0940	131089		MBSB E	SEABEAM SWATH BOOK 1	GDC	12-135N	103-511W	sVNTR02WT
0940	131089		MBSB B	SEABEAM SWATH BOOK 2	GDC	12-135N	103-511W	sVNTR02WT
1147	221089		MBSB E	SEABEAM SWATH BOOK 2	GDC	8-533N	104-062W	sVNTR02WT
1147	221089		MBSB B	SEABEAM SWATH BOOK 3	GDC	8-533N	104-062W	sVNTR02WT
1731	281089		MBSB E	SEABEAM SWATH BOOK 3	GDC	8-394N	104-118W	sVNTR02WT
1731	281089		MBSB B	SEABEAM SWATH BOOK 4	GDC	8-394N	104-118W	sVNTR02WT
1143	031189		MBSB E	SEABEAM SWATH BOOK 4	GDC	12-065N	103-473W	sVNTR02WT
1143	031189		MBSB B	SEABEAM SWATH BOOK 5	GDC	12-065N	103-473W	sVNTR02WT
1709	061189		MBSB E	SEABEAM SWATH BOOK 5	GDC	16-129N	105-262W	sVNTR02WT
1709	061189		MBSB B	SEABEAM SWATH BOOK 6	GDC	16-129N	105-262W	sVNTR02WT
1256	071189		MBSB E	SEABEAM SWATH BOOK 6	GDC	18-591N	104-243W	sVNTR02WT

\*\*\*\* SEABEAM SURVEYS \*\*\*\*

0850	191089		MBSV B	SEABEAM SURVEY 1	GDC	12-120N	103-498W	sVNTR02WT
2111	191089		MBSV E	SEABEAM SURVEY 1	GDC	12-159N	103-457W	sVNTR02WT
0951	221089		MBSV B	SEABEAM SURVEY 2	GDC	9-147N	103-594W	sVNTR02WT
1954	221089		MBSV E	SEABEAM SURVEY 2	GDC	8-348N	104-088W	sVNTR02WT
1220	251089		MBSV B	SEABEAM SURVEY 3	GDC	8-409N	104-123W	sVNTR02WT
1300	251089		MBSV E	SEABEAM SURVEY 3	GDC	8-389N	104-144W	sVNTR02WT
1715	281089		MBSV B	SEABEAM SURVEY 4	GDC	8-380N	104-133W	sVNTR02WT
1324	291089		MBSV E	SEABEAM SURVEY 4	GDC	12-033N	103-468W	sVNTR02WT

\*\*\*\* GRAVITY SURVEY \*\*\*\*

2132	061089		GVSV B	GRAVITY SURVEY	GDC	19-038N	104-183W	sVNTR02WT
1440	071189		GVSV E	GRAVITY SURVEY	GDC	19-035N	104-180W	sVNTR02WT



#GMT	DDMMYY	LOC T	SAMP	SAMPLE	DISP			CRUISE
#TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP

#### CORE WITH CAMERA ####

2111	161089		COCA B	PERCUSSION RUN 1	LDO 12-106N	103-497W	sVNTR02WT	
0004	171089		COCA E	PERCUSSION RUN 1	LDO 12-131N	103-506W	sVNTR02WT	
0335	191089		COCA B	PERCUSSION RUN 2	LDO 12-126N	103-520W	sVNTR02WT	
0726	191089		COCA E	PERCUSSION RUN 2	LDO 12-133N	103-501W	sVNTR02WT	
1510	251089		COCA B	PERCUSSION RUN 3	LDO 8-391N	104-134W	sVNTR02WT	
1909	251089		COCA E	PERCUSSION RUN 3	LDO 8-373N	104-113W	sVNTR02WT	
1830	261089		COCA B	PERCUSSION RUN 4	LDO 8-369N	104-125W	sVNTR02WT	
2003	261089		COCA E	PERCUSSION RUN 4	LDO 8-377N	104-117W	sVNTR02WT	
2332	301089		COCA B	PERCUSSION RUN 5	LDO 12-152N	103-523W	sVNTR02WT	
51	311089		COCA E	PERCUSSION RUN 5	LDO 12-158N	103-518W	sVNTR02WT	
0356	311089		COCA B	PERCUSSION RUN 6	LDO 12-167N	103-518W	sVNTR02WT	
0404	311089		COCA E	PERCUSSION RUN 6	LDO 12-168N	103-518W	sVNTR02WT	
0338	021189		COCA B	PERCUSSION RUN 7	LDO 12-201N	103-549W	sVNTR02WT	
0640	021189		COCA E	PERCUSSION RUN 7	LDO 12-207N	103-525W	sVNTR02WT	

#### TOWED BOTTOM CAMERA WITH VIDEO ####

1836	091089		CATB B	TOWED BOTTOM CAMERA	LDO 12-110N	103-491W	sVNTR02WT	
0206	101089		CATB E	AND VIDEO RUN 1	LDO 12-151N	103-550W	sVNTR02WT	
1844	111089		CATB B	TOWED BOTTOM CAMERA	LDO 12-077N	103-488W	sVNTR02WT	
0630	121089		CATB E	AND VIDEO RUN 2	LDO 12-163N	103-493W	sVNTR02WT	
0200	181089		CATB B	TOWED BOTTOM CAMERA	LDO 12-164N	103-529W	sVNTR02WT	
1300	181089		CATB E	AND VIDEO RUN 3	LDO 12-095N	103-496W	sVNTR02WT	
1648	231089		CATB B	TOWED BOTTOM CAMERA	LDO 8-341N	104-130W	sVNTR02WT	
0424	241089		CATB E	AND VIDEO RUN 4	LDO 8-376N	104-130W	sVNTR02WT	
0257	311089		CATB B	TOWED BOTTOM CAMERA	LDO 12-163N	103-517W	sVNTR02WT	
1357	311089		CATB E	AND VIDEO RUN 5	LDO 12-173N	103-513W	sVNTR02WT	
55	021189		CATB B	TOWED BOTTOM CAMERA	LDO 12-206N	103-533W	sVNTR02WT	
2004	021189		CATB E	AND VIDEO RUN 6	LDO 12-167N	103-534W	sVNTR02WT	

#GMT	DDMMYY	LOC T	SAMP	SAMPLE	DISP				CRUISE
#TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP	

#### ROCK DREDGES ####

0957	081089		DRRO	ROCK DREDGE	1	2651M	GCR	12-375N	103-554W	sVNTR02WT
1350	081089		DRRO	ROCK DREDGE	2	2640M	GCR	12-355N	103-553W	sVNTR02WT
2023	081089		DRRO	ROCK DREDGE	3	2830M	GCR	12-126N	103-466W	sVNTR02WT
0142	091089		DRRO	ROCK DREDGE	4	2879M	GCR	12-104N	103-456W	sVNTR02WT
0618	091089		DRRO	ROCK DREDGE	5	3007M	GCR	12-153N	103-448W	sVNTR02WT
1117	091089		DRRO	ROCK DREDGE	6	2760M	GCR	12-061N	103-499W	sVNTR02WT
0759	101089		DRRO	ROCK DREDGE	7	2882M	GCR	12-111N	103-538W	sVNTR02WT
1318	101089		DRRO	ROCK DREDGE	8	2760M	GCR	12-068N	103-508W	sVNTR02WT
2347	101089		DRRO	ROCK DREDGE	9	2712M	GCR	12-123N	103-508W	sVNTR02WT
0431	131089		DRRO	ROCK DREDGE	10	2710M	GCR	12-102N	103-506W	sVNTR02WT
1015	131089		DRRO	ROCK DREDGE	11	2715M	GCR	12-136N	103-507W	sVNTR02WT
0557	141089		DRRO	ROCK DREDGE	12	2860M	GCR	12-108N	103-514W	sVNTR02WT
1130	141089		DRRO	ROCK DREDGE	13	2700M	GCR	12-064N	103-487W	sVNTR02WT
2146	141089		DRRO	ROCK DREDGE	14	2690M	GCR	12-067N	103-493W	sVNTR02WT
0222	151089		DRRO	ROCK DREDGE	15	3293M	GCR	12-087N	103-500W	sVNTR02WT
0614	151089		DRRO	ROCK DREDGE	16	2714M	GCR	12-083N	103-492W	sVNTR02WT
1050	151089		DRRO	ROCK DREDGE	17	2733M	GCR	12-100N	103-492W	sVNTR02WT
0408	271089		DRRO	ROCK DREDGE	18	2596M	GCR	8-311N	104-128W	sVNTR02WT
1224	271089		DRRO	ROCK DREDGE	19	2559M	GCR	8-376N	104-120W	sVNTR02WT
1712	271089		DRRO	ROCK DREDGE	20	2600M	GCR	8-383N	104-120W	sVNTR02WT
0442	281089		DRRO	ROCK DREDGE	21	2564M	GCR	8-385N	104-132W	sVNTR02WT
0919	281089		DRRO	ROCK DREDGE	22	2657M	GCR	8-404N	104-119W	sVNTR02WT
1502	291089		DRRO	ROCK DREDGE	23	2900M	GCR	12-039N	103-468W	sVNTR02WT
1936	291089		DRRO	ROCK DREDGE	24	3043M	GCR	12-048N	103-432W	sVNTR02WT
0023	301089		DRRO	ROCK DREDGE	25	2993M	GCR	12-078N	103-442W	sVNTR02WT
0351	301089		DRRO	ROCK DREDGE	26	2898M	GCR	12-070N	103-452W	sVNTR02WT
0909	301089		DRRO	ROCK DREDGE	27	2890M	GCR	12-059N	103-479W	sVNTR02WT
1239	301089		DRRO	ROCK DREDGE	28	2855M	GCR	12-057N	103-480W	sVNTR02WT
1048	031189		DRRO	ROCK DREDGE	29	2932M	GCR	12-066N	103-468W	sVNTR02WT
1506	031189		DRRO	ROCK DREDGE	30	2912M	GCR	12-053N	103-445W	sVNTR02WT
1430	051189		DRRO	ROCK DREDGE	31	3470M	GCR	15-122N	104-497W	sVNTR02WT
0332	061189		DRRO	ROCK DREDGE	32	2340M	GCR	15-304N	105-239W	sVNTR02WT

#GMT	DDMMYY	LOC T	SAMP	SAMPLE	DISP				CRUISE
#TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP	
*** <del>ROCK CORE</del> *** <i>Glass Cores</i>									
0252	111089		COXX	ROCK CORE-	1	2657M	LDO 12-121N	103-501W	sVNTR02WT
0446	111089		COXX	ROCK CORE-	2	2665M	LDO 12-128N	103-502W	sVNTR02WT
0624	111089		COXX	ROCK CORE-	3	2671M	LDO 12-137N	103-503W	sVNTR02WT
0801	111089		COXX	ROCK CORE-	4	2687M	LDO 12-145N	103-505W	sVNTR02WT
0922	111089		COXX	ROCK CORE-	5	2681M	LDO 12-150N	103-506W	sVNTR02WT
1103	111089		COXX	ROCK CORE-	6	2680M	LDO 12-154N	103-505W	sVNTR02WT
1224	111089		COXX	ROCK CORE-	7	2670M	LDO 12-158N	103-516W	sVNTR02WT
1413	111089		COXX	ROCK CORE-	8	3171M	LDO 12-148N	103-507W	sVNTR02WT
1609	111089		COXX	ROCK CORE-	9	2665M	LDO 12-120N	103-500W	sVNTR02WT
0927	121089		COXX	ROCK CORE-	10	2725M	LDO 12-115N	103-503W	sVNTR02WT
1104	121089		COXX	ROCK CORE-	11	2640M	LDO 12-104N	103-498W	sVNTR02WT
1229	121089		COXX	ROCK CORE-	12	2640M	LDO 12-096N	103-496W	sVNTR02WT
1358	121089		COXX	ROCK CORE-	13	2647M	LDO 12-087N	103-495W	sVNTR02WT
0522	121089		COXX	ROCK CORE-	14	2690M	LDO 12-092N	103-498W	sVNTR02WT
0517	121089		COXX	ROCK CORE-	15	2690M	LDO 12-081N	103-494W	sVNTR02WT
2128	121089		COXX	ROCK CORE-	16	2702M	LDO 12-076N	103-494W	sVNTR02WT
2301	121089		COXX	ROCK CORE-	17	2715M	LDO 12-067N	103-492W	sVNTR02WT
0037	131089		COXX	ROCK CORE-	18	2740M	LDO 12-057N	103-489W	sVNTR02WT
1325	131089		COXX	ROCK CORE-	19	2675M	LDO 12-131N	103-511W	sVNTR02WT
1454	131089		COXX	ROCK CORE-	20	2743M	LDO 12-128N	103-514W	sVNTR02WT
1637	131089		COXX	ROCK CORE-	21	2830M	LDO 12-131N	103-521W	sVNTR02WT
1819	131089		COXX	ROCK CORE-	22	2800M	LDO 12-125N	103-525W	sVNTR02WT
2019	131089		COXX	ROCK CORE-	23	2820M	LDO 12-125N	103-488W	sVNTR02WT
2149	131089		COXX	ROCK CORE-	24	2686M	LDO 12-121N	103-494W	sVNTR02WT
0023	141089		COXX	ROCK CORE-	25	2720M	LDO 12-184N	103-508W	sVNTR02WT
0332	141089		COXX	ROCK CORE-	26	2701M	LDO 12-159N	103-514W	sVNTR02WT
1411	141089		COXX	ROCK CORE-	27	2675M	LDO 12-062N	103-494W	sVNTR02WT
1654	151089		COXX	ROCK CORE-	28	2710M	LDO 12-071N	103-496W	sVNTR02WT
1905	151089		COXX	ROCK CORE-	29	2717M	LDO 12-053N	103-492W	sVNTR02WT
2049	151089		COXX	ROCK CORE-	30	2719M	LDO 12-046N	103-491W	sVNTR02WT
2221	151089		COXX	ROCK CORE-	31	2715M	LDO 12-042N	103-490W	sVNTR02WT
0030	161089		COXX	ROCK CORE-	32	2726M	LDO 12-023N	103-490W	sVNTR02WT
0400	161089		COXX	ROCK CORE-	33	2743M	LDO 12-087N	103-505W	sVNTR02WT
0530	161089		COXX	ROCK CORE-	34	2750M	LDO 12-091N	103-518W	sVNTR02WT
0701	161089		COXX	ROCK CORE-	35	2686M	LDO 12-107N	103-506W	sVNTR02WT
0842	161089		COXX	ROCK CORE-	36	2739M	LDO 12-112N	103-490W	sVNTR02WT
1044	161089		COXX	ROCK CORE-	37	2701M	LDO 12-133N	103-502W	sVNTR02WT
1230	161089		COXX	ROCK CORE-	38	2720M	LDO 12-143N	103-494W	sVNTR02WT
1427	161089		COXX	ROCK CORE-	39	2625M	LDO 12-141N	103-503W	sVNTR02WT
0216	171089		COXX	ROCK CORE-	40	2809M	LDO 12-152N	103-549W	sVNTR02WT
0455	171089		COXX	ROCK CORE-	41	2800M	LDO 12-166N	103-542W	sVNTR02WT
0628	171089		COXX	ROCK CORE-	42	2803M	LDO 12-175N	103-535W	sVNTR02WT
0756	171089		COXX	ROCK CORE-	43	2766M	LDO 12-177N	103-527W	sVNTR02WT
0929	171089		COXX	ROCK CORE-	44	2705M	LDO 12-178N	103-519W	sVNTR02WT
1052	171089		COXX	ROCK CORE-	45	2678M	LDO 12-179N	103-516W	sVNTR02WT

#GMT #TIME	DDMMYY DATE	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0257	031189		COXX	ROCK CORE-139	2681M	LDO 12-108N	103-503W	sVNTR02WT
0427	031189		COXX	ROCK CORE-140	2682M	LDO 12-100N	103-500W	sVNTR02WT
0603	031189		COXX	ROCK CORE-141	2684M	LDO 12-091N	103-495W	sVNTR02WT
0758	031189		COXX	ROCK CORE-142	2827M	LDO 12-075N	103-472W	sVNTR02WT
1915	031189		COXX	ROCK CORE-143	2869M	LDO 12-041N	103-466W	sVNTR02WT
2032	031189		COXX	ROCK CORE-144	2827M	LDO 12-042N	103-524W	sVNTR02WT
2227	031189		COXX	ROCK CORE-145	2795M	LDO 12-058N	103-524W	sVNTR02WT
0002	041189		COXX	ROCK CORE-146	2819M	LDO 12-063N	103-532W	sVNTR02WT
0538	041189		COXX	ROCK CORE-147	2821M	LDO 12-142N	103-518W	sVNTR02WT
0656	041189		COXX	ROCK CORE-148	2763M	LDO 12-141N	103-515W	sVNTR02WT
0813	041189		COXX	ROCK CORE-149	2843M	LDO 12-137N	103-521W	sVNTR02WT
1040	041189		COXX	ROCK CORE-150	2734M	LDO 12-198N	103-438W	sVNTR02WT
1238	041189		COXX	ROCK CORE-151	2902M	LDO 12-136N	103-477W	sVNTR02WT
2028	041189		COXX	ROCK CORE-152	2883M	LDO 12-190N	103-531W	sVNTR02WT
1847	051189		COXX	ROCK CORE-153	3295M	LDO 15-242N	104-535W	sVNTR02WT
2339	051189		COXX	ROCK CORE-154	2500M	LDO 15-224N	105-198W	sVNTR02WT
0129	061189		COXX	ROCK CORE-155	2386M	LDO 15-253N	105-214W	sVNTR02WT
0651	061189		COXX	ROCK CORE-156	2332M	LDO 15-366N	105-248W	sVNTR02WT
0821	061189		COXX	ROCK CORE-157	2218M	LDO 15-407N	105-250W	sVNTR02WT
1120	061189		COXX	ROCK CORE-158	2337M	LDO 15-451N	105-266W	sVNTR02WT
1319	061189		COXX	ROCK CORE-159	2251M	LDO 15-500N	105-264W	sVNTR02WT
1616	061189		COXX	ROCK CORE-160	2550M	LDO 16-094N	105-258W	sVNTR02WT
1856	061189		COXX	ROCK CORE-161	2846M	LDO 16-239N	105-233W	sVNTR02WT
2057	061189		COXX	ROCK CORE-162	2733M	LDO 16-291N	105-192W	sVNTR02WT

## \*\*\* THERMOGRAPH RECORDS \*\*\*

2235	061089	TGRC B THERMOGRAPHS 1-24	GDC 18-577N	104-240W	sVNTR02WT
1442	071189	TGRC E THERMOGRAPHS 1-24	GDC 19-035N	104-180W	sVNTR02WT

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END SAMPLE INDEX