

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

WESTFALL EXPEDITION

LEG 1

R/V Thomas Washington

(Issued January 1991)

San Diego, California (8 November 1990)
to
San Diego, California (12 November 1990)

Chief Scientist:

Peter Lonsdale (Scripps Institution of Oceanography)

Resident Marine Technician - Seth Mogk

Sea Beam/Underway Data Processor - Uta Albright (GDC)

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 92093

Data Collection and Processing Funded by:
University of California General Funds

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 ID.# 250

INFORMAL REPORT AND INDEX OF NAVIGATION AND UNDERWAY GEOPHYSICAL DATA

Processed by the Geological Data Center
Scripps Institution of Oceanography

Contents:

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 profile (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 92093-0223. Phone (619)534-2752. Fax (619)534-5306.

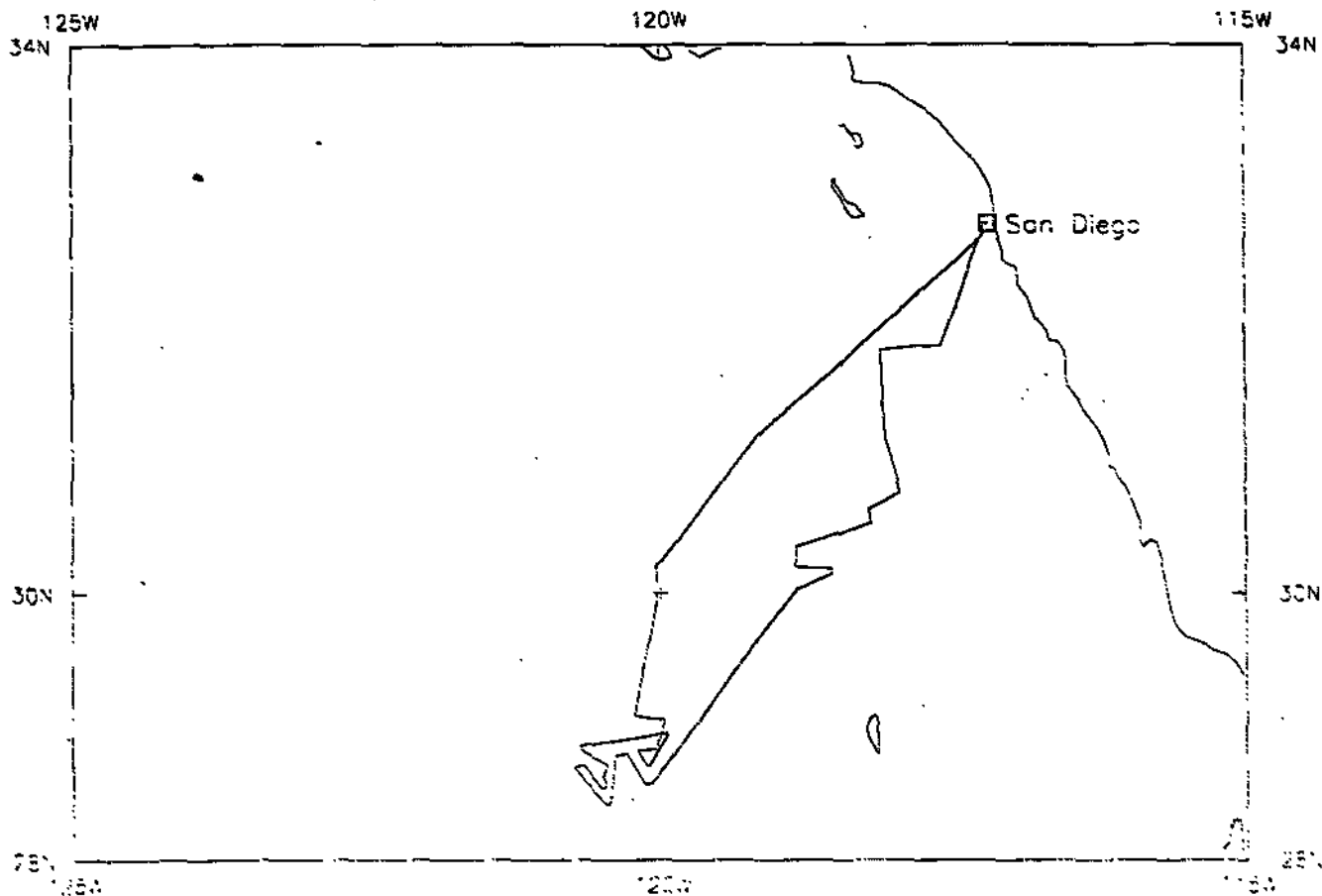
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) *are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (2&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 NGD77 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

SIO Sea Beam Data Information

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 slowfilm) 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



WESTFALL EXPEDITION LEG 1

CHIEF SCIENTIST:

Peter Lonsdale (Scripps Institution of Oceanography)

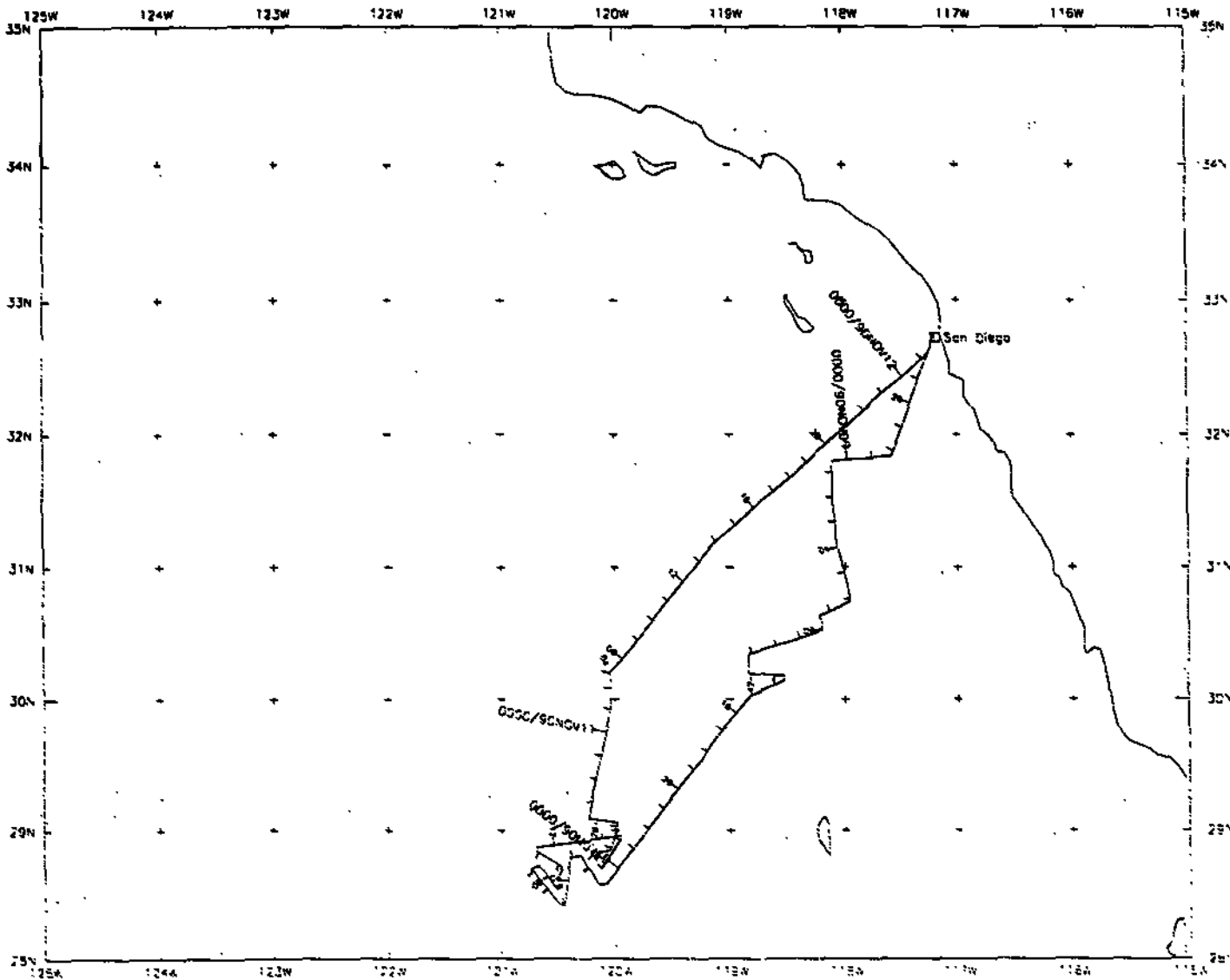
PORTS: San Diego - San Diego, California

DATES: 8 - 12 November 1990

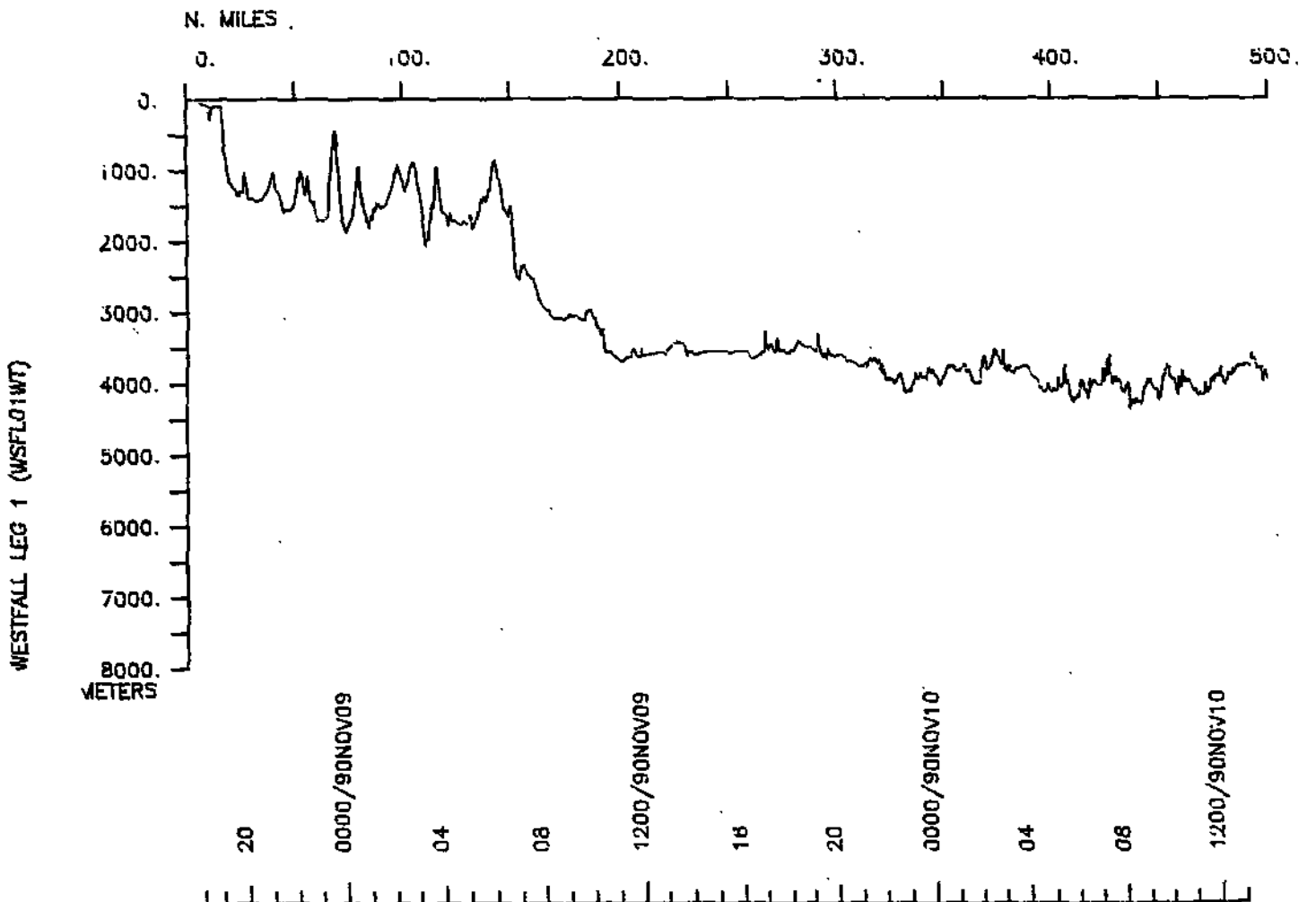
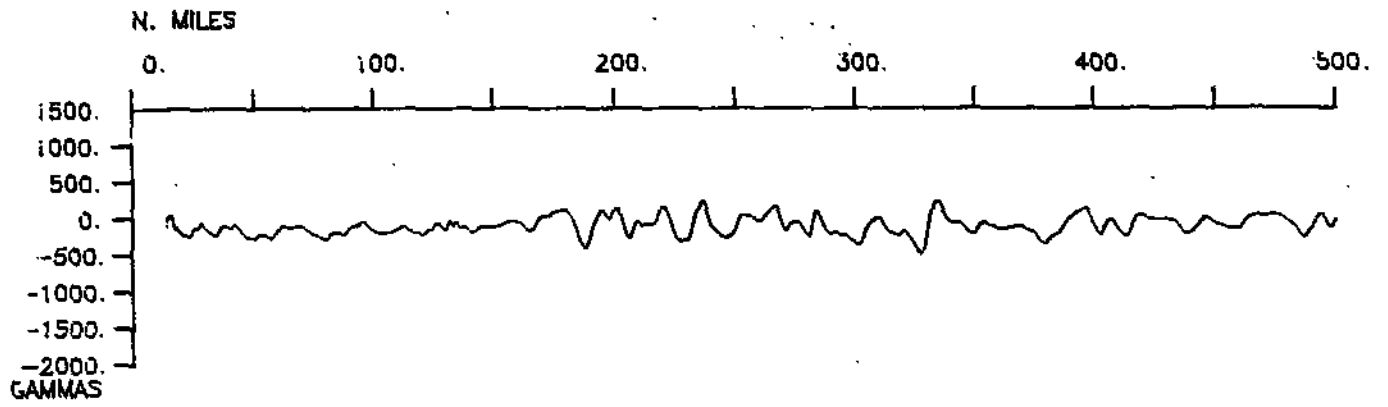
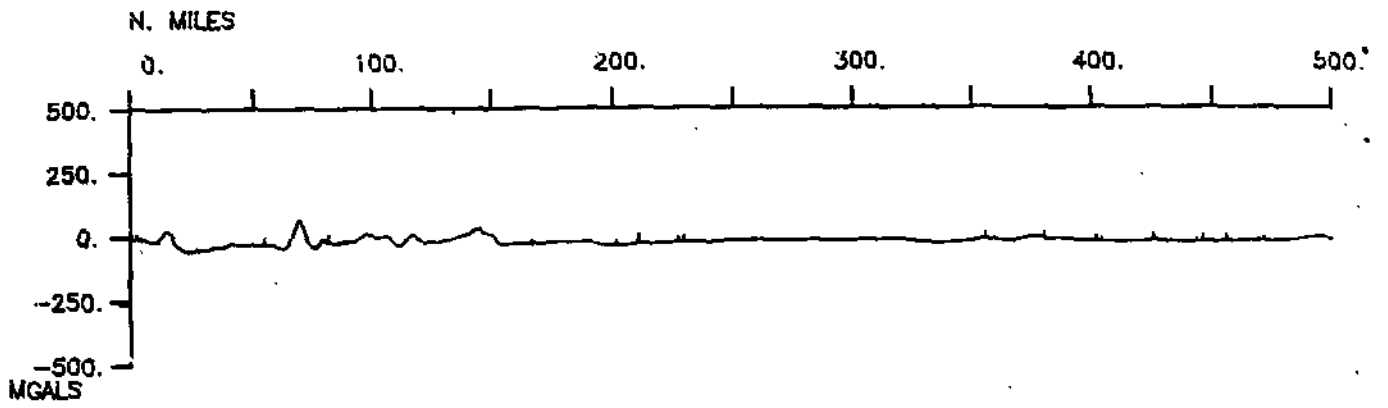
SHIP: R/V T. Washington

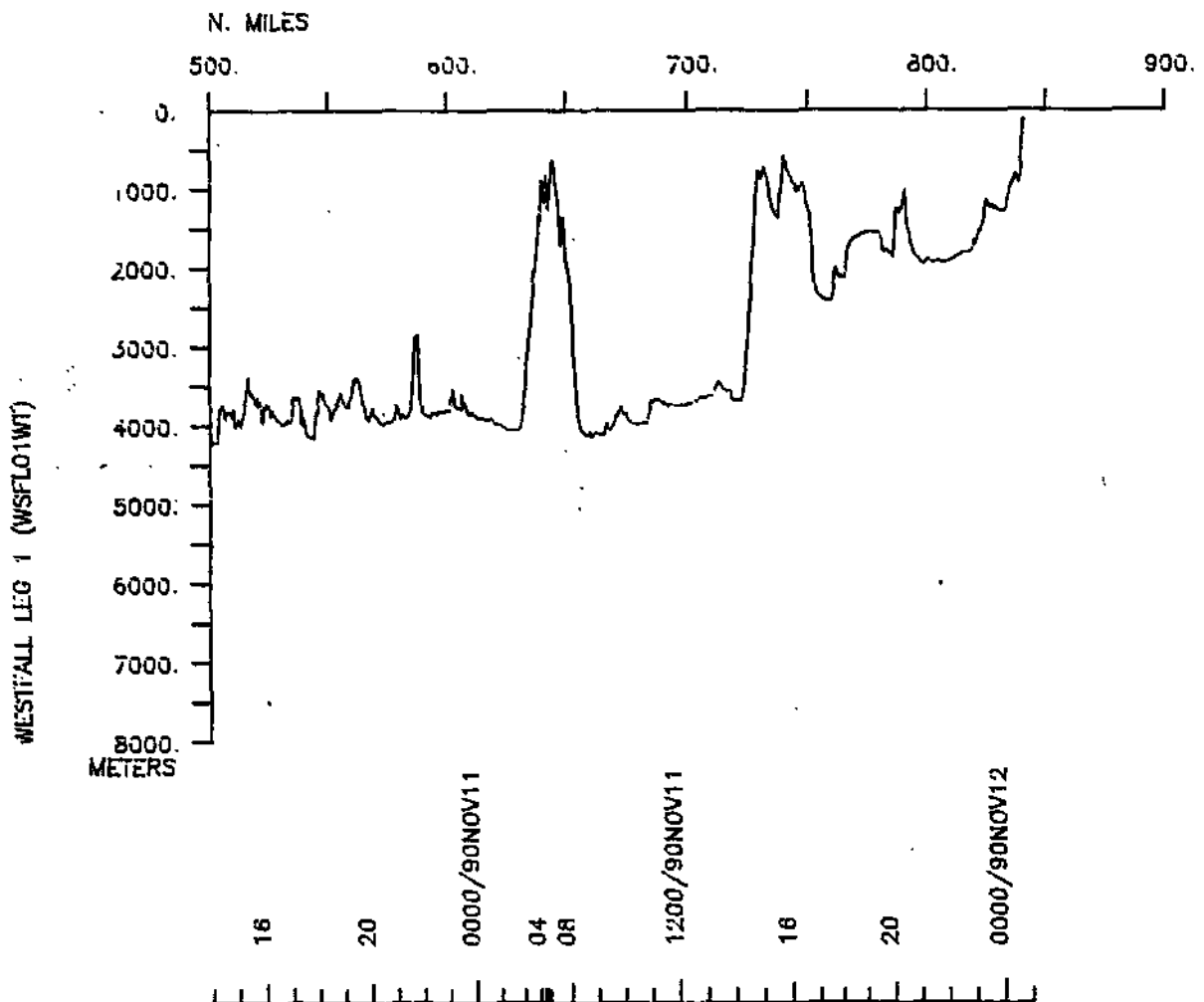
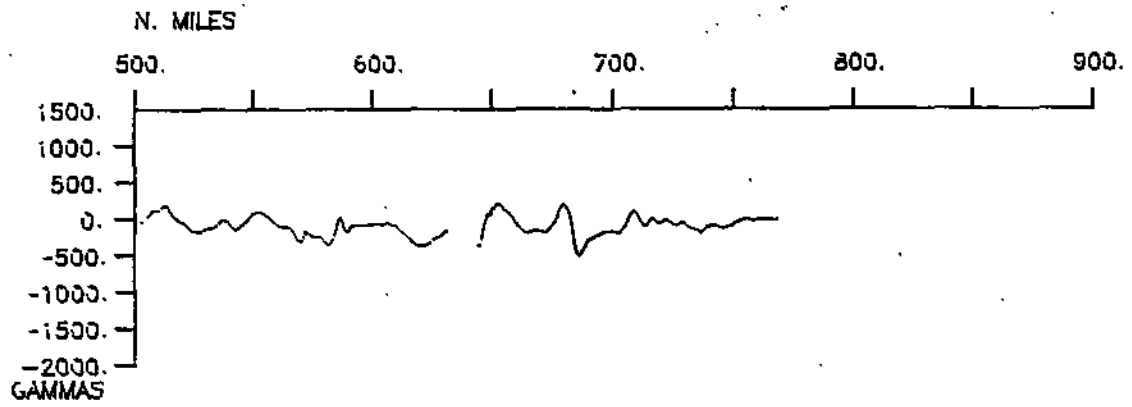
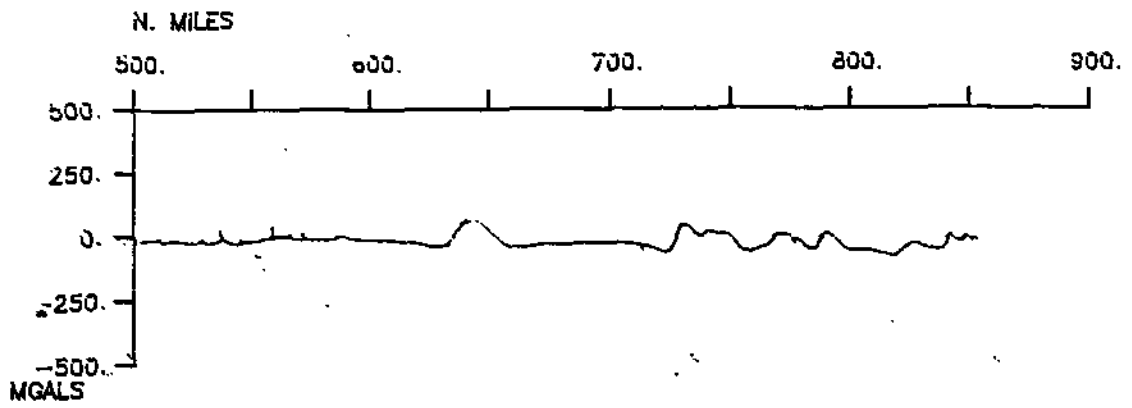
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 853 miles
- 2) Bathymetry - 840 miles
- 3) Magnetics - 748 miles
- 4) Seismic Reflection - 765 miles
- 5) Gravity - 853 miles
- 6) Sea Beam - 840 miles



1977 Expedition Leg 1 (NSF 10137)





S.I.O. SAMPLE INDEX

(Issued January 1991)

WESTFALL EXPEDITION

Leg 1

R/V T. Washington

San Diego, California (8 November 1990)
to
San Diego, California (12 November 1990)

Chief Scientist:

Peter Lonsdale (Scripps Institution of Oceanography)

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.# 250

****PORTS****

1645 081190	LGPT B SAN DIEGO	32-416N 117-139W	sWSFLO1WT'
0200 121190	LGPT E SAN DIEGO	32-416N 117-139W	sWSFLO1WT

****PERSONNEL****

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS MPL	LONSDALE, P.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	WSFLO1WT
PESP GRD	CASTILLO, P.	ASSOC. PROFESSOR	SCRIPPS INSTITUTION	WSFLO1WT
PEBE STS	STUBER, D.	SEABEAM ENGINEER	SCRIPPS INSTITUTION	WSFLO1WT
PEET STS	JAIN, J.	PROSPECTIVE SB ENG	SCRIPPS INSTITUTION	WSFLO1WT
PECT STS	CHARTERS, J.	COMPUTER TECH	SCRIPPS INSTITUTION	WSFLO1WT
PEAT STS	CRAMPTON, P. J.	GEOPHYS. ENGR.	SCRIPPS INSTITUTION	WSFLO1WT
PEBO STS	ALBRIGHT, U.	SEABEAM OPR.	SCRIPPS INSTITUTION	WSFLO1WT
PERT STS	MOGK, S. A.	RESIDENT TECH.	SCRIPPS INSTITUTION	WSFLO1WT
PEST GRD	SCARSI, P.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST GRD	MARNIELLO, A.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST SIO	JANNEY, P.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST SIO	MAYER, H.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST SIO	HARTL, P.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST SIO	MUELLER, D.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST SIO	SCRUGGS, V.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST SIO	COLES, V.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST SIO	MARCHANT, K.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST SIO	YASUDA, M.	GRAD. STUDENT	SCRIPPS INSTITUTION	WSFLO1WT
PEST CCS	CORRAL, M. C.	GRAD. STUDENT	CICESE	WSFLO1WT
PEST CCS	CORDOVA, S. L.	GRAD. STUDENT	CICESE	WSFLO1WT
PEST CCS	FRIAS C., V. M.	GRAD. STUDENT	CICESE	WSFLO1WT
PEST CCS	GONZALES C., H.	GRAD. STUDENT	CICESE	WSFLO1WT
PEST CCS	ROBLES, S. P.	GRAD. STUDENT	CICESE	WSFLO1WT

****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

1800	081190			LBUW	B UNDERWAY WATCH LOG	GDC	32-338N	117-163W	sWSFLO1WT
0000	121190			LBUW	E UNDERWAY WATCH LOG	GDC	32-257N	117-288W	sWSFLO1WT

*** ECHO SOUNDER RECORDS ***

1830	081190			DPR3	B PDR 3.5 KHZ R-01	GDC	32-297N	117-183W	sWSFLO1WT
0000	121190			DPR3	E PDR 3.5 KHZ R-01	GDC	32-257N	117-288W	sWSFLO1WT

*** SEA BEAM MONITOR RECORDS ***

1700	081190			MBRM	B SEABEAM 12 KHZ R-01	GDC	32-416N	117-139W	sWSFLO1WT
1650	111190			MBRM	E SEABEAM 12 KHZ R-01	GDC	31-330N	118-384W	sWSFLO1WT
1653	111190			MBRM	B SEABEAM 12 KHZ R-02	GDC	31-334N	118-379W	sWSFLO1WT
0000	121190			MBRM	E SEABEAM 12 KHZ R-02	GDC	32-257N	117-288W	sWSFLO1WT

*** SEA BEAM ARCHIVE SWATH BOOKS ***

1814	081190			MBSB	B SB ARC SWATH BK 01	GDC	32-313N	117-175W	sWSFLO1WT
1115	101190			MBSB	E SB ARC SWATH BK 01	GDC	28-515N	120-414W	sWSFLO1WT
1115	101190			MBSB	B SB ARC SWATH BK 02	GDC	28-515N	120-414W	sWSFLO1WT
0000	121190			MBSB	E SB ARC SWATH BK 02	GDC	32-257N	117-288W	sWSFLO1WT

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

1830	081190			MGRA	B MAGNETICS R-01	GDC	32-297N	117-183W	sWSFLO1WT
1823	111190			MGRA	E MAGNETICS R-01	GDC	31-433N	118-245W	sWSFLO1WT

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

1830	081190			SPRS B	WATERGUN(4SEC)	R-01	GDC 32-297N	117-183W	sWSFLO1WT
1832	111190			SPRS E	WATERGUN(4SEC)	R-01	GDC 31-439N	118-236W	sWSFLO1WT
1830	081190			SPRF B	WATERGUN(2SEC)	R-01	GDC 32-297N	117-183W	sWSFLO1WT
0958	101190			SPRF E	WATERGUN(2SEC)	R-01	GDC 28-438N	120-293W	sWSFLO1WT
0959	101190			SPRF B	WATERGUN(2SEC)	R-02	GDC 28-439N	120-295W	sWSFLO1WT
1832	111190			SPRF E	WATERGUN(2SEC)	R-02	GDC 31-439N	118-236W	sWSFLO1WT

*** DREDGES ***

0329	111190			DRRO B	WSFLO1	1398M	GCR 30-117N	120-024W	sWSFLO1WT
0403	111190			DRRO E	WSFLO1	910M	GCR 30-119N	120-027W	sWSFLO1WT
0523	111190			DRRO B	WSFLO2	1126M	GCR 30-115N	120-026W	sWSFLO1WT
0622	111190			DRRO E	WSFLO2	834M	GCR 30-116N	120-029W	sWSFLO1WT

*** END SAMPLE INDEX ***