

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

TOPO90 EXPEDITION

LEG 2
=====

R/V Thomas Washington

(Issued November 1990)

San Diego, California (23 September 1990)
to
San Diego, California (1 October 1990)

Chief Scientist:

Charles Eriksen (University of Washington)

Resident Marine Technician - Bob Wilson

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:
ONR Grant Number 1210

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.
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Geological Data Center, Scripps Institution of Oceanography,
La Jolla, California 92093.

GDC Cruise I.D.# 249

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 $\frac{2}{3}$ 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

SIO Sea Beam Data Information

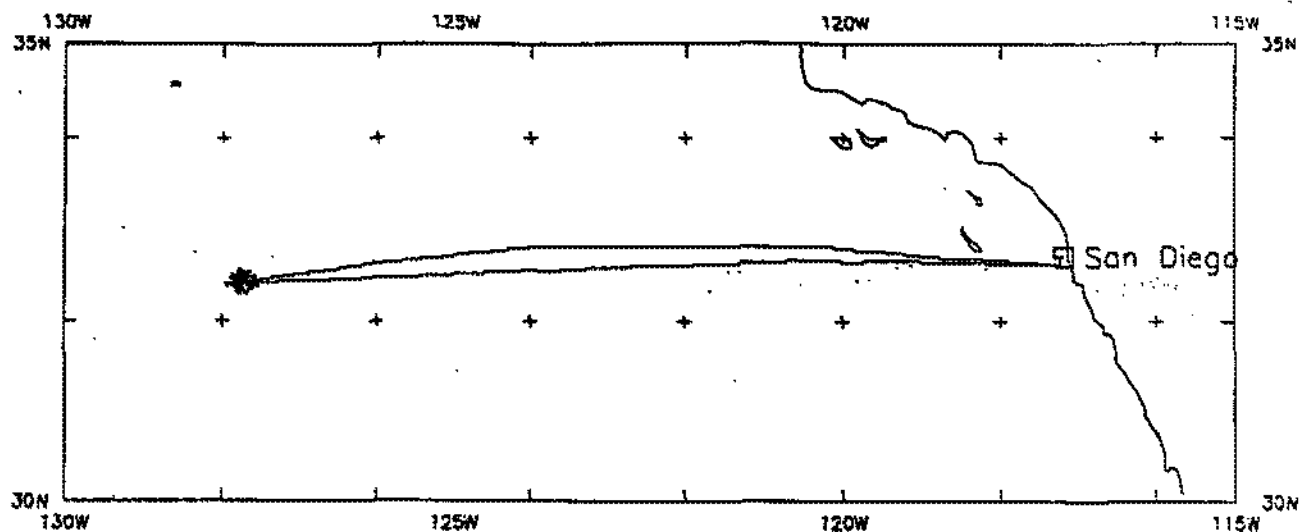
The following forms are available, subject to approval of the cruise leg chief scientist:

- 1) *Archive copy of contour swath books generated in real time on board ship available for inspection at the data center.*
- 2) *Microfilm (35mm 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

NOTE: Sea Beam data collection and processing were not funded by extramural grants on this leg. Instead, they have been collected and processed in "transit mode" by the SIO Shipboard Technical Support group as part of an experimental program to optimize ship usage and to increase the amount of available Sea Beam data. At this time, policies for processing these data are under review. For more information, contact the Geological Data Center curator.

April 1989



TOPO90 EXPEDITION LEG 2

CHIEF SCIENTIST:

Charles Eriksen (University of Washington)

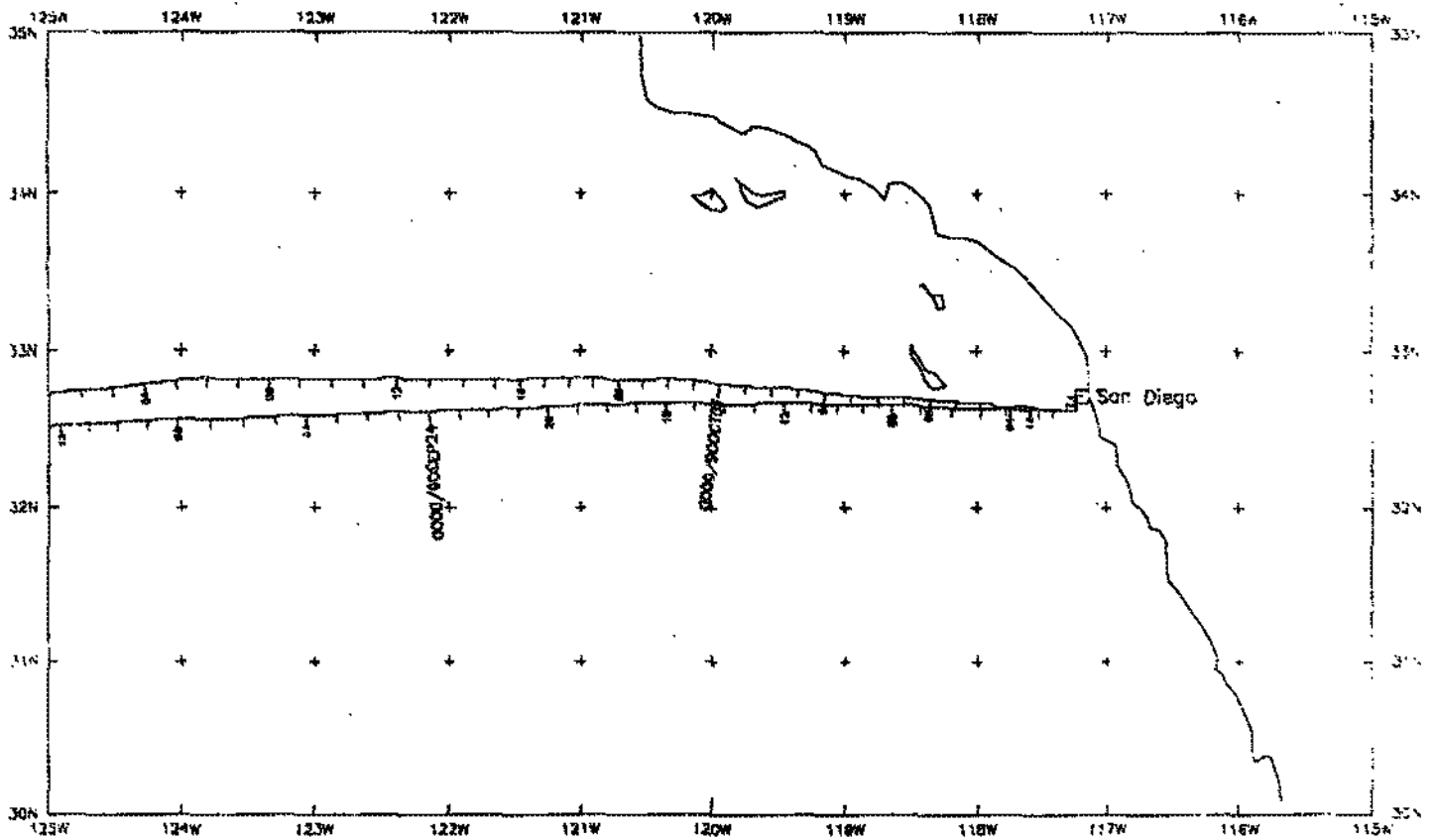
PORTS: San Diego - San Diego, Calif.

DATES: 23 September - 1 October 1990

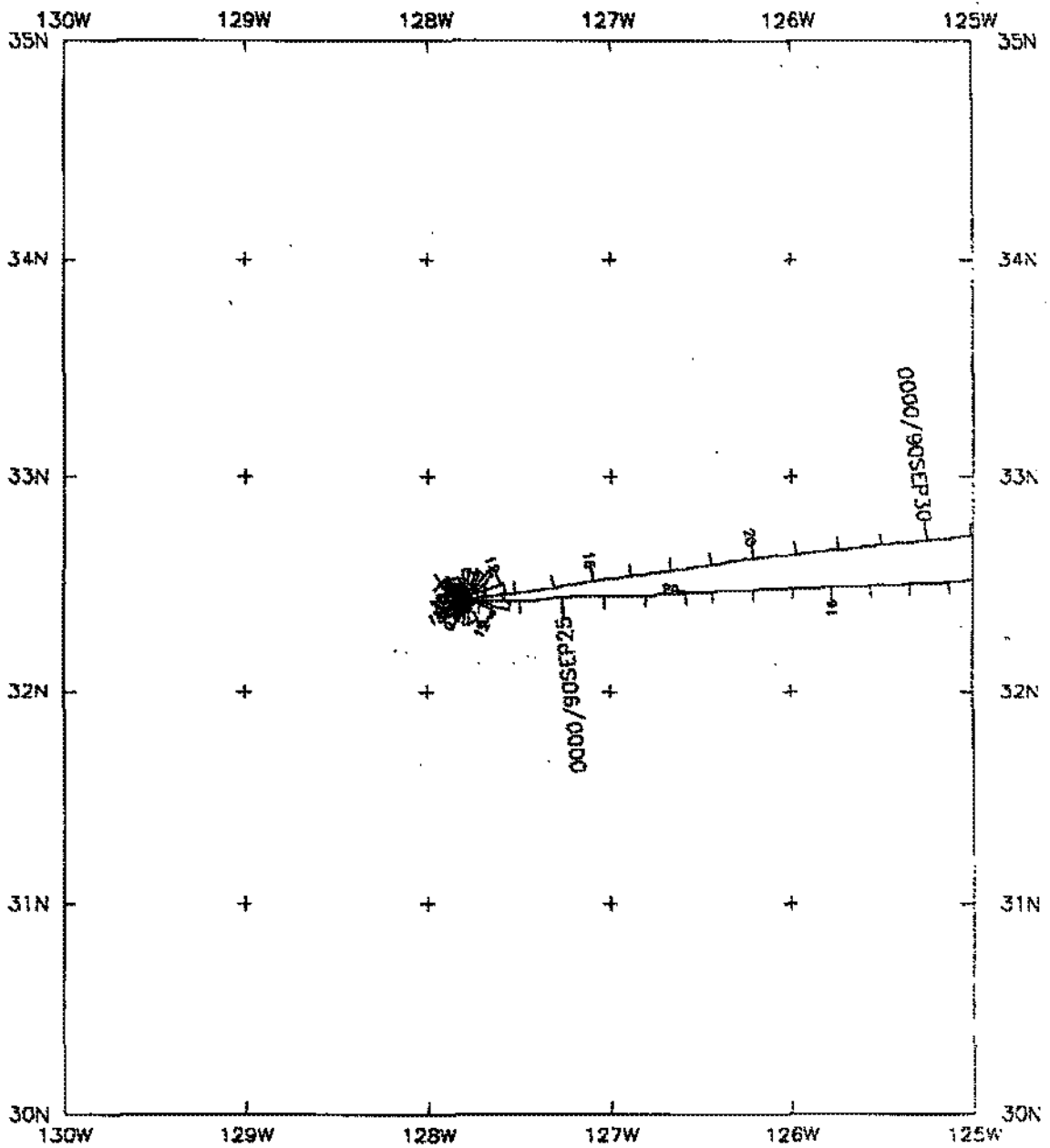
SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 1397 miles
- 2) Bathymetry - 1302 miles
- 3) Magnetics - 1102 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected
- 6) Sea Beam - 1302 miles (Collected in Transit Mode)

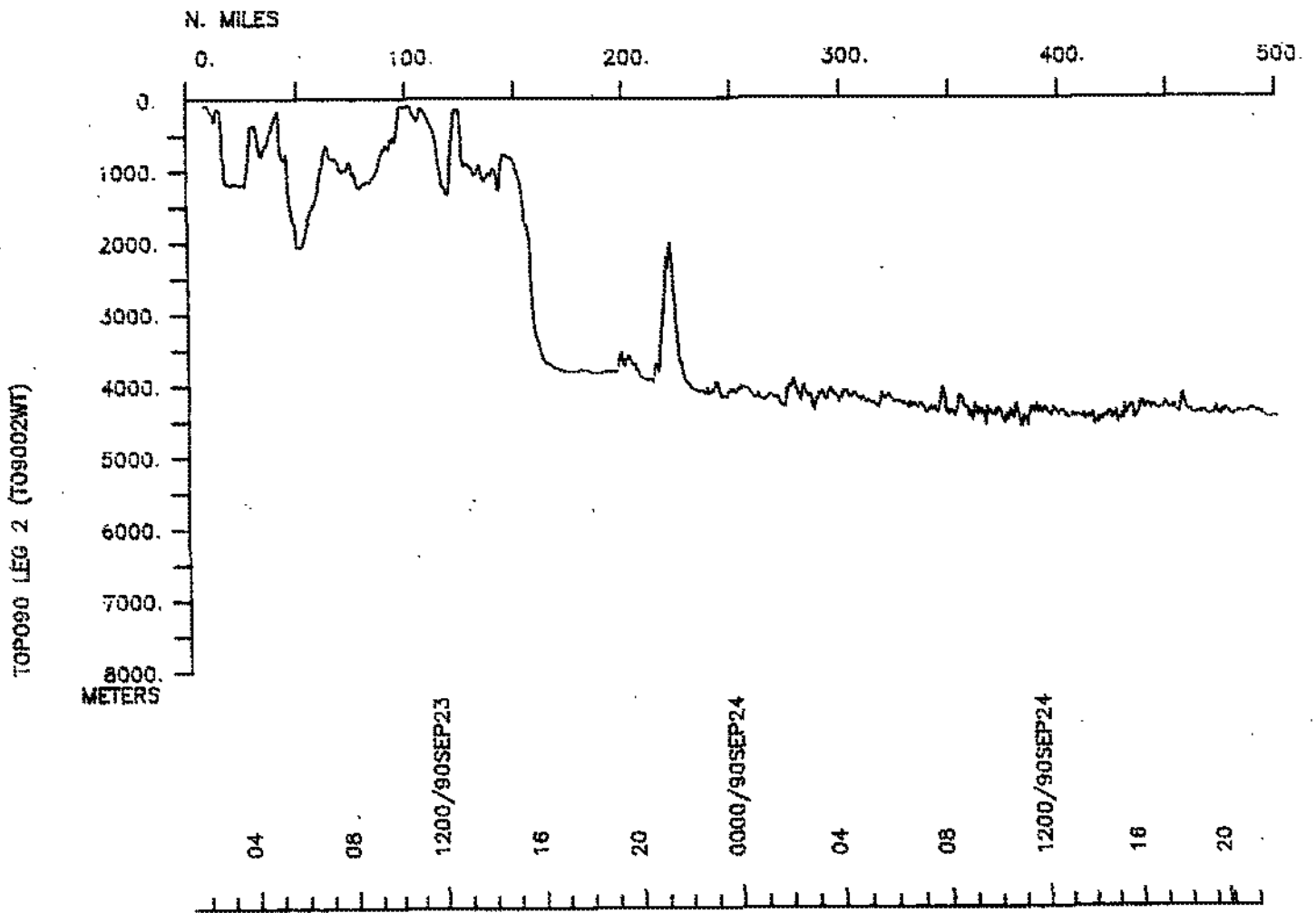
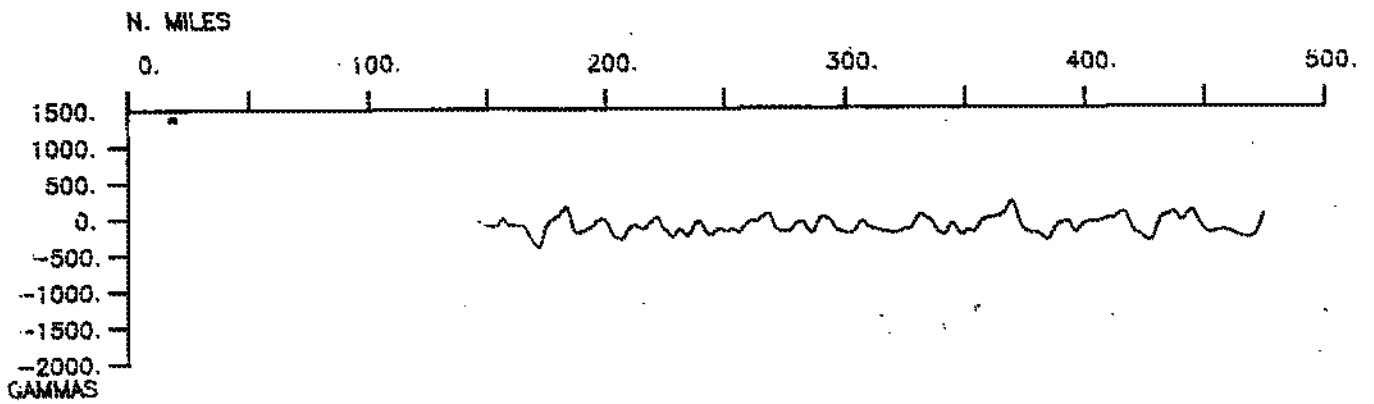


TOPO90 Expedition Leg 2 (T09002WT)
Track 1 of 2

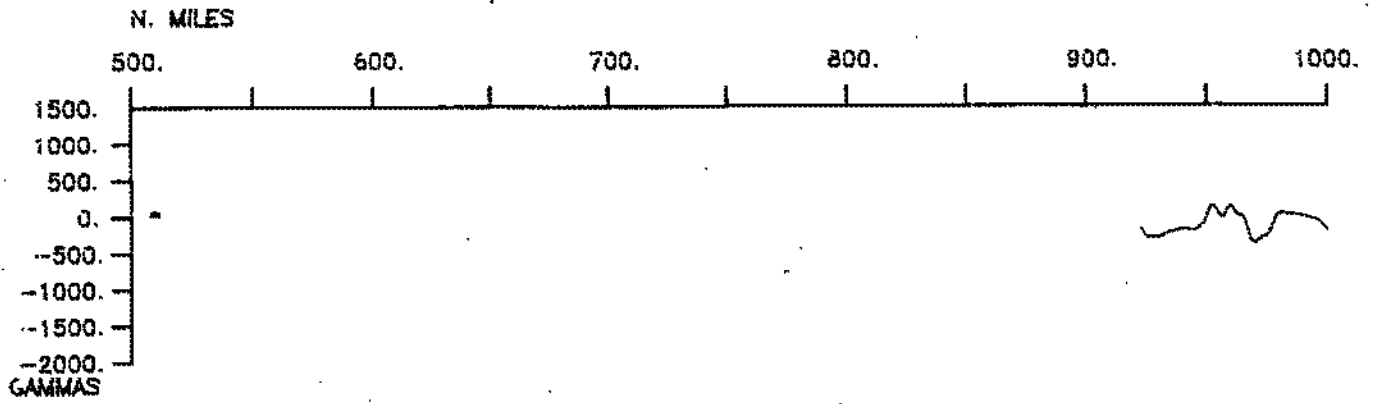


TOP090 Expedition Leg 2 (T09002WT)
Track 1 of 2

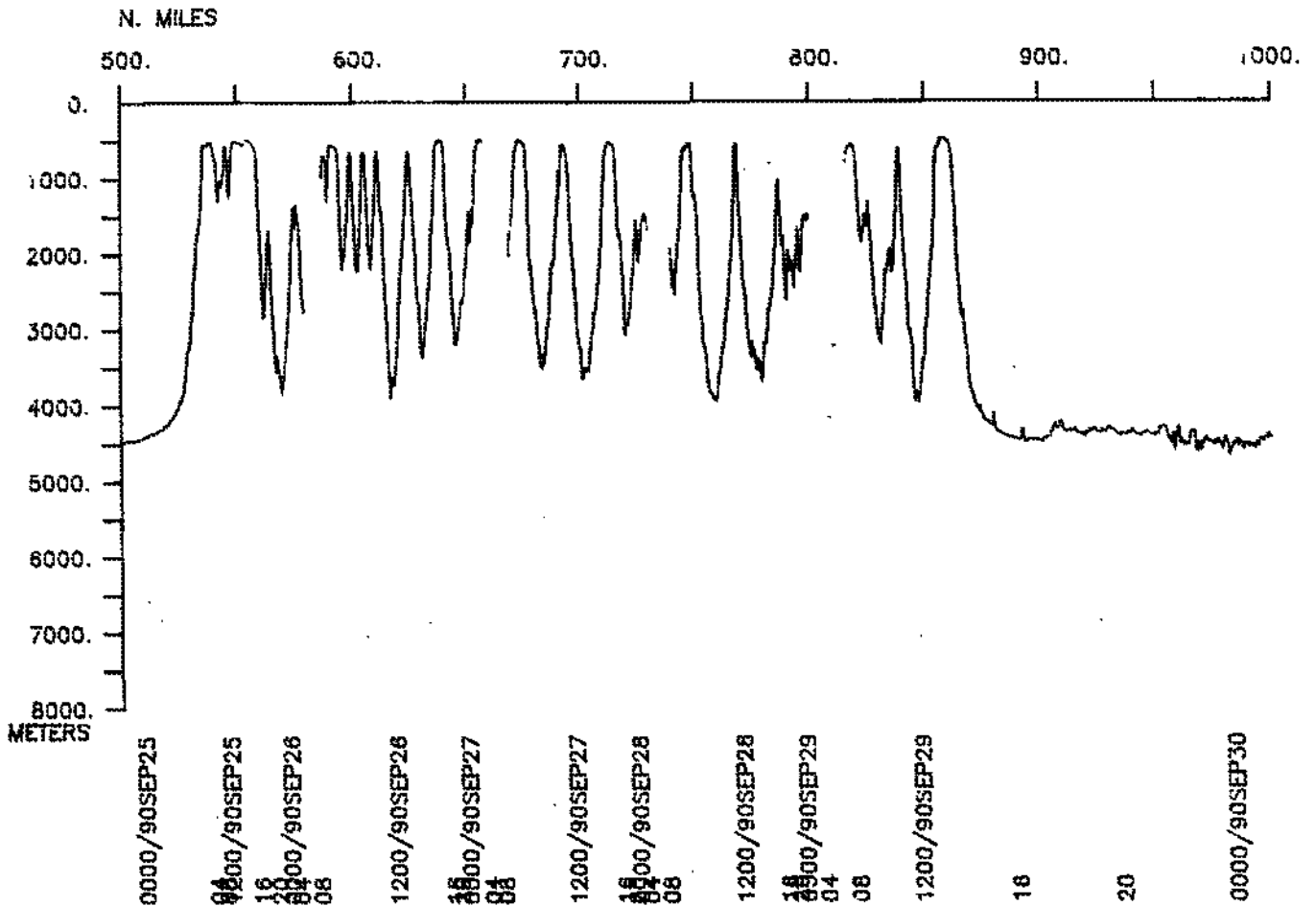
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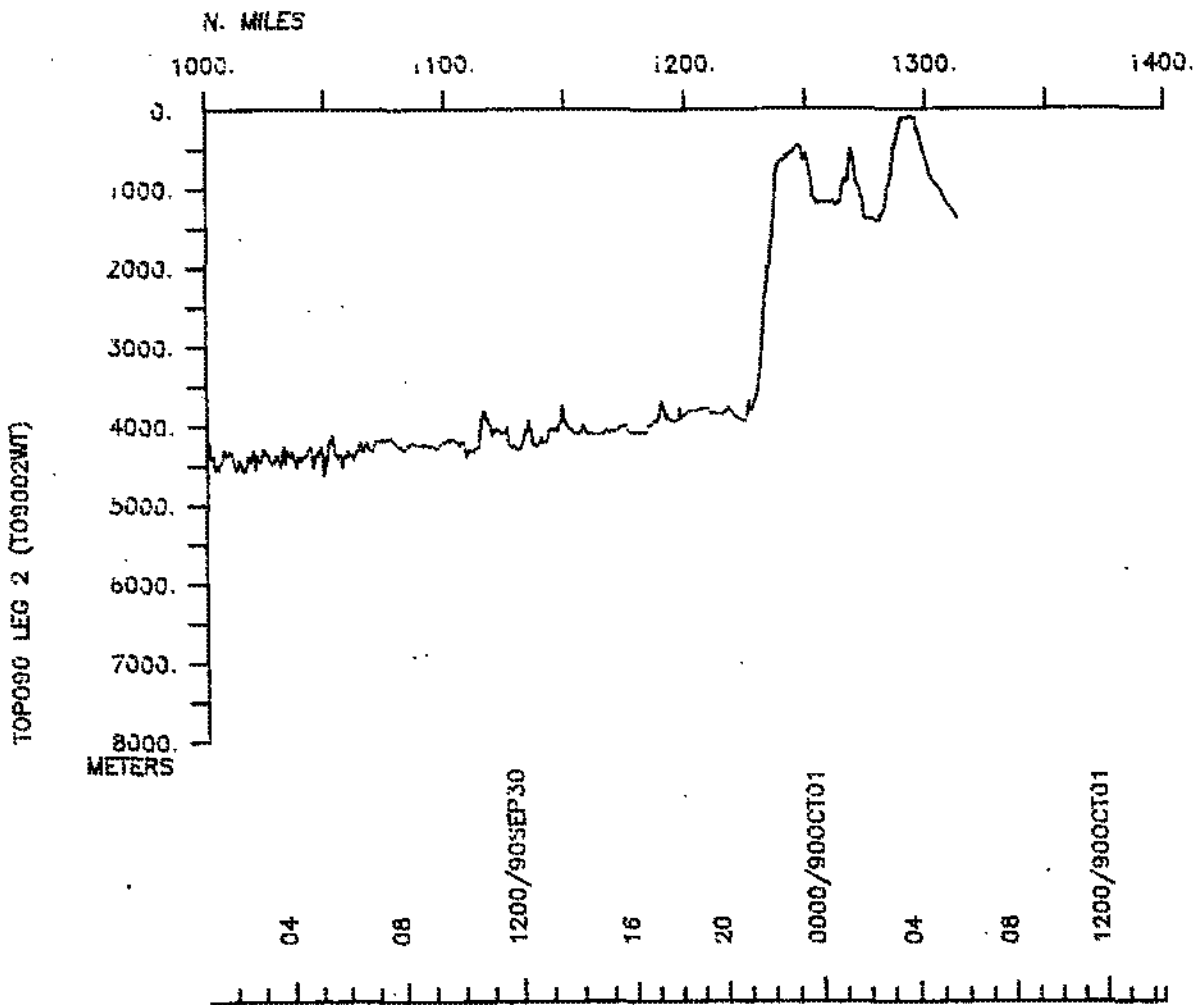
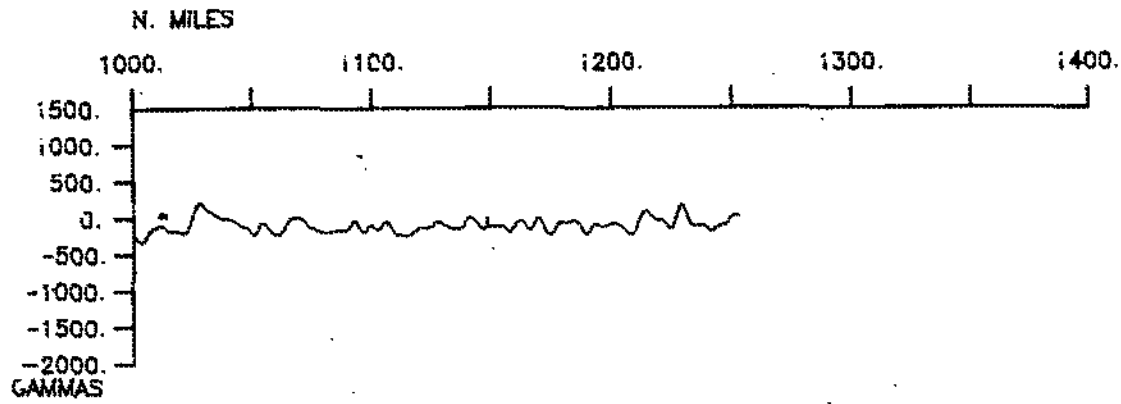


SEABEAM



JOP090 LEG 2 (T09002WT)





S.I.O. SAMPLE INDEX

(Issued November 1990)

TOPO80 EXPEDITION

Leg 2

R/V T. Washington

San Diego, California (23 September 1990)
to
San Diego, California (1 October 1990)

Chief Scientist:

Charles Eriksen (University of Washington)

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.# 249

****PORTS****

0050 230990	LGPT B SAN DIEGO, CA	32-43 N 117-11 W	ft09002WT
1430 011090	LGPT E SAN DIEGO, CA	32-43 N 117-11 W	ft09002WT

****PERSONNEL****

NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS UWA ERIKSEN, C.	CHIEF SCIENTIST	UNIV.OF WASHINGTON	T09002WT
PERT STS WILSON, R.	RESIDENT TECH	SCRIPPS INSTITUTION	T09002WT
PECT STS BOUCHARD, G.	COMPUTER TECH	SCRIPPS INSTITUTION	T09002WT
PESP UWA BOGUE, N.	RESEARCH ENGINEER	UNIV.OF WASHINGTON	T09002WT
PESP UWA HARRIS, C.	RESEARCH SCIENT.	UNIV.OF WASHINGTON	T09002WT
PEST UWA CODIGA, D.	GRADUATE STUDENT	UNIV.OF WASHINGTON	T09002WT
PEST UWA LEE, C.	GRADUATE STUDENT	UNIV.OF WASHINGTON	T09002WT
PESP WHO GARLAND, E.	RESEARCH ASST.	WOODS HOLE	T09002WT
PESP SIX REID, R.	ENGINEER	SCRIPPS NON-EMPLOYEE	T09002WT
PESP SIX DONNELLEY, P.	OCEANOGRAPHER	SCRIPPS NON-EMPLOYEE	T09002WT

****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

*** ECHO SOUNDER RECORDS - 12 KHZ ***

0252 230990	MBMR B SEABEAM MONITOR R-01	GDC 32-377N 117-297W	sT09002WT
1410 230990	MBMR E SEABEAM MONITOR R-01	GDC 32-395N 119-564W	sT09002WT
1436 230990	MBMR B SEABEAM MONITOR R-02	GDC 32-398N 120-021W	sT09002WT
1508 250990	MBMR E SEABEAM MONITOR R-02	GDC 32-299N 127-519W	sT09002WT
1513 250990	MBMR B SEABEAM MONITOR R-03	GDC 32-300N 127-521W	sT09002WT
1258 280990	MBMR E SEABEAM MONITOR R-03	GDC 32-193N 127-435W	sT09002WT
1304 280990	MBMR B SEABEAM MONITOR R-04	GDC 32-200N 127-437W	sT09002WT
1747 300990	MBMR E SEABEAM MONITOR R-04	GDC 32-495N 121-076W	sT09002WT
1755 300990	MBMR B SEABEAM MONITOR R-05	GDC 32-495N 121-061W	sT09002WT
2038 300990	MBMR E SEABEAM MONITOR R-05	GDC 32-493N 120-355W	sT09002WT
2040 300990	MBMR B SEABEAM MONITOR R-06	GDC 32-493N 120-351W	sT09002WT

#GMT #TIME #	DMMYY DATE -----	LOC TIME Z	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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*** MAGNETICS (EARTH TOTAL FIELD) RECORDS ***

1432	230990			MGRA B	MAGNETICS R-01	GDC	32-397N	120-013W	sTO9002WT
2342	300990			MGRA E	MAGNETICS R-01	GDC	32-479N	119-598W	sTO9002WT

*** CURRENT METERS ***

0614	250990			CMAB B	MOORING R3 588M	UWA	32-246N	127-474W	sTO9002WT
1430	011090			CMAB C	CURRENT METERS	UWA	32-43 N	117-11 W	fTO9002WT
0025	260990			CMAB B	MOORING F2 1496M	UWA	32-285N	127-504W	sTO9002WT
1430	011090			CMAB C	CURRENT METERS	UWA	32-43 N	117-11 W	fTO9002WT
2338	260990			CMAB B	MOORING F3 1405M	UWA	32-247N	127-498W	sTO0902WT
0031	280990			CMAB B	MOORING F4 1462M	UWA	32-246N	127-499W	sTO9002WT
1430	011090			CMAB C	CURRENT METERS	UWA	32-43 N	117-11 W	fTO9002WT
2216	280990			CMAB B	MOORING F5 1495M	UWA	32-247N	127-500W	sTO9002WT
1430	011090			CMAB C	CURRENT METERS	UWA	32-43 N	117-11 W	fTO9002WT

*** EXPENDABLE BATHYTHERMOGRAPHS ***

1410	230990			BTXP	xbt 0001 Probe T-4	GDC	32-395N	119-564W	sTO9002WT
1458	240990			BTXP	xbt 0002 Probe T-4	GDC	32-293N	125-329W	sTO9002WT
1926	290990			BTXP	xbt 0003 Probe T-4	GDC	32-361N	126-200W	sTO9002WT
1603	300990			BTXP	xbt 0004 Probe T-4	GDC	32-492N	121-269W	sTO9002WT

*** END SAMPLE INDEX