

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA
(Issued February 1991)

SEABEAM EXPEDITION

LEG B

(Sea Beam Test Trip)
=====

R/V Washington

San Diego, California (18 December 1981)
to
San Diego, California (22 December 1981)

Chief Scientist - Jacqueline Mammerickx (SIO)

Post-Cruise Processing and Report Preparation
by Geological Data Center, Scripps Institution of Oceanography
Data Collection and Processing Funded by ONR-0440

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.# 192

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 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.

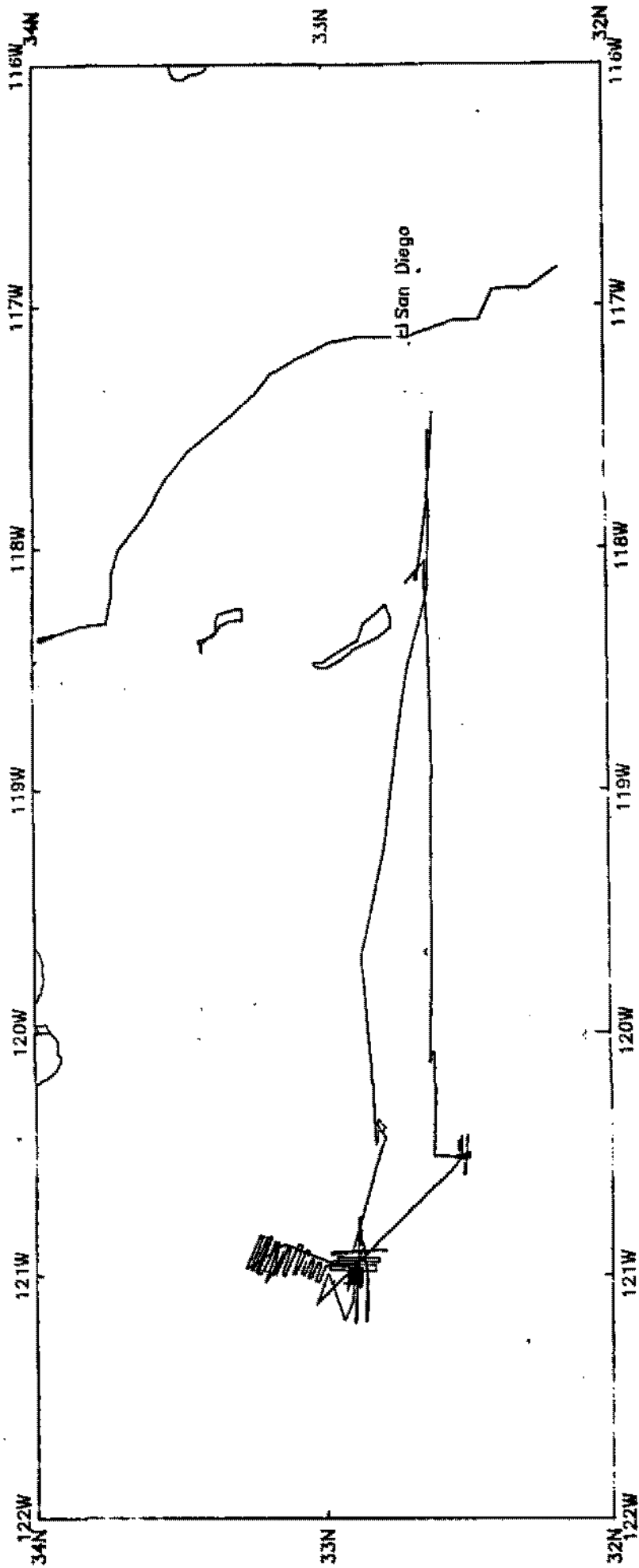
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam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

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



SEABEAM EXPEDITION LEG B

CHIEF SCIENTIST:

Jacqueline Mammerrickx (Scripps Institution of Oceanography)

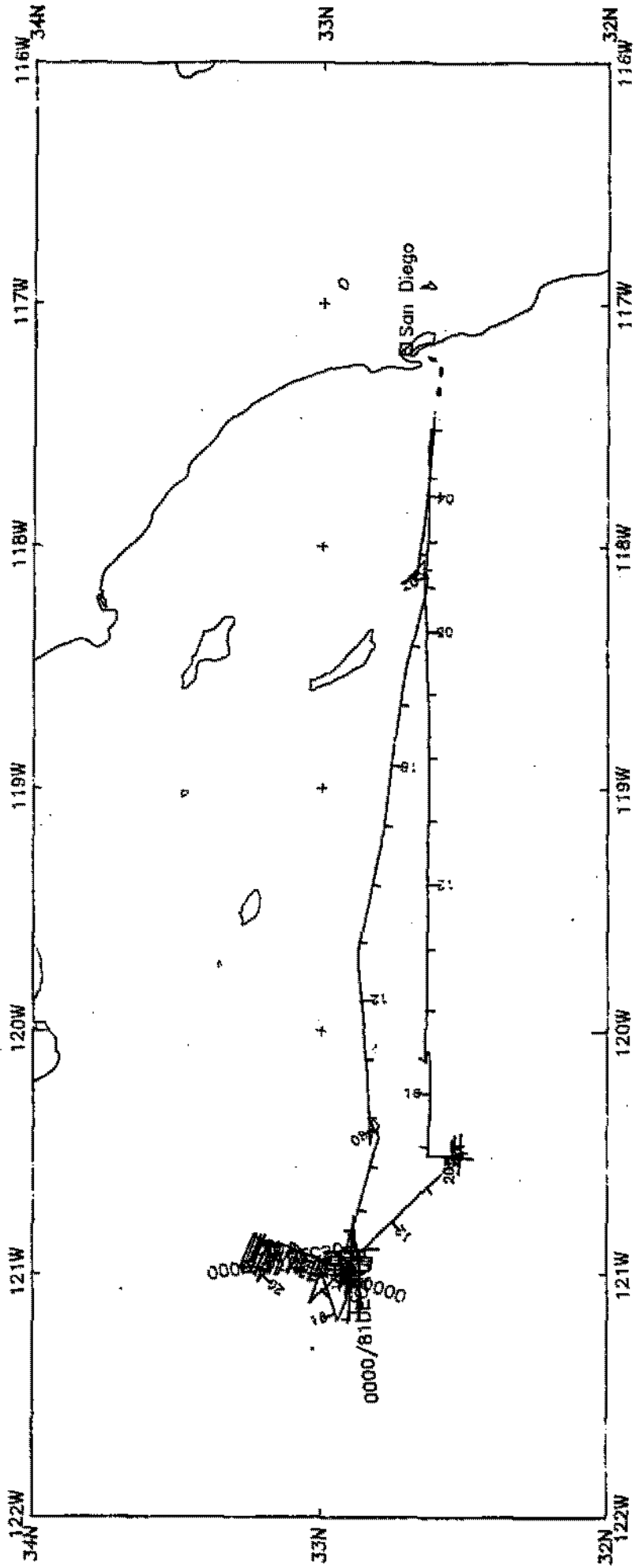
PORTS: San Diego - San Diego, California

DATES: 18 - 22 December 1981

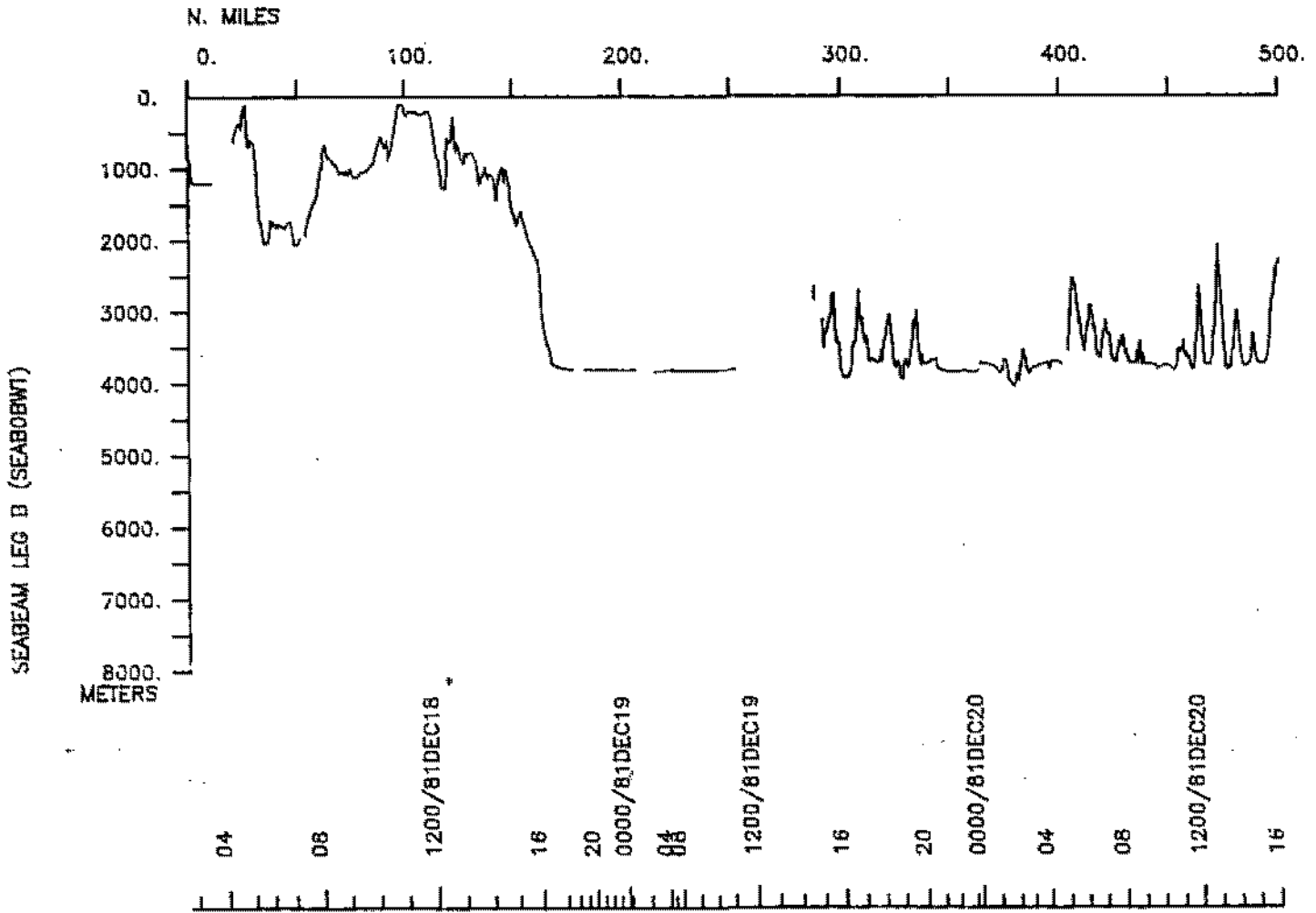
SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 964 miles
- 2) Bathymetry - 864 miles
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected
- 6) Sea Beam - 864 miles

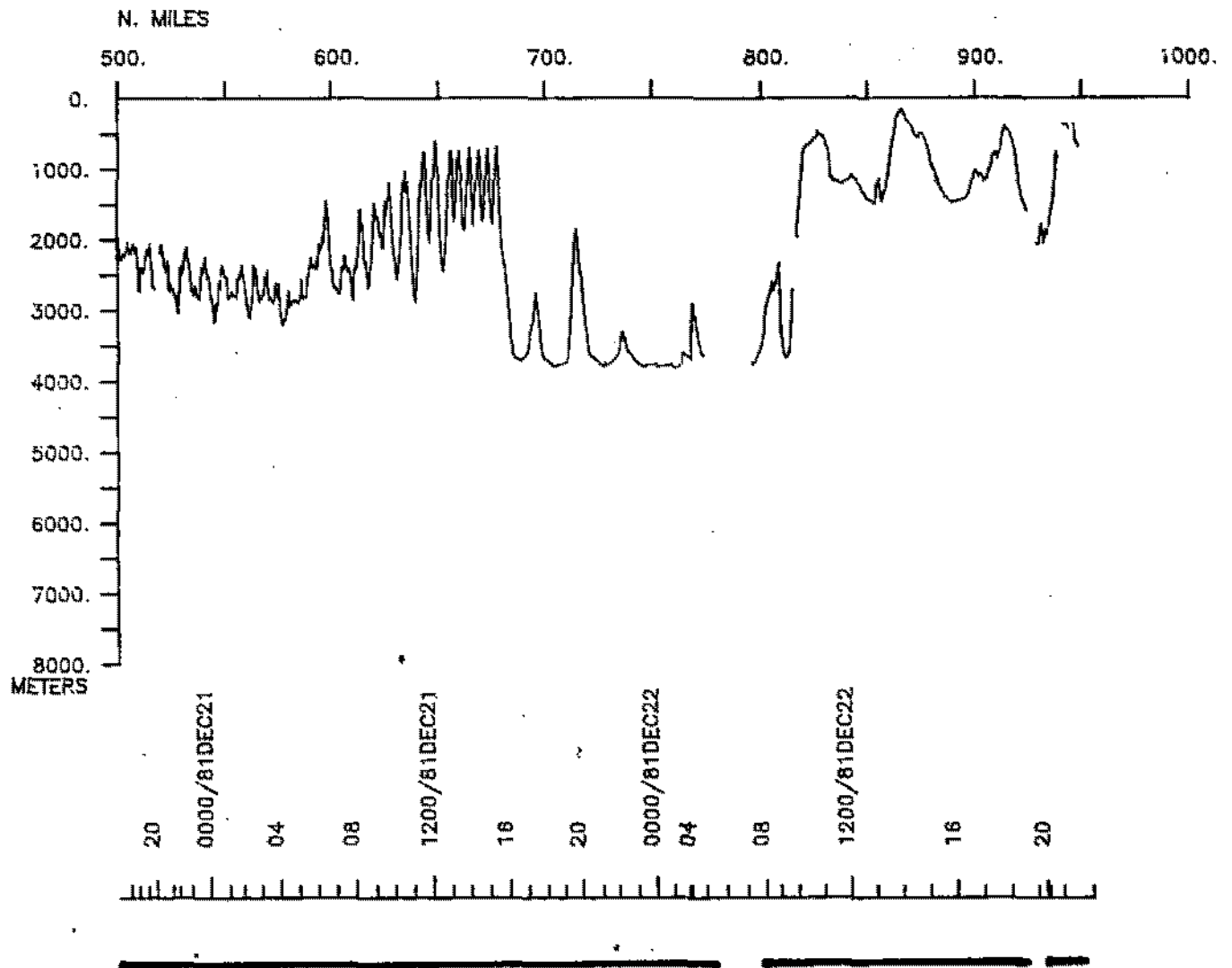


SEABEAM Expedition Leg B
(SEABEAM)



SEABEAM

SEABEAM LEG B (SEABOBNT)



S.I.O. SAMPLE INDEX

(Issued February 1991)

SEABEAM EXPEDITION

Leg B

R/V T. Washington

San Diego, California (18 December 1981)
to
San Diego, California (22 December 1981)

Chief Scientist - J. Mammerickx

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.# 192

****PORTS****

0200 181281	LGPT B SAN DIEGO, CALIFORNIA	32-43 N 117-11 W f	SEABOBWT
2345 221281	LGPT E SAN DIEGO, CALIFORNIA	32-43 N 117-11 W f	SEABOBWT

****PERSONNEL****

NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS GRD MAMMERICKX, J.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	SEABOBWT
PESP MPL TYCE, R.	SCIENTIST	SCRIPPS INSTITUTION	SEABOBWT
PECT MTG ABBOTT, J.L.	COMPUTER TECH	SCRIPPS INSTITUTION	SEABOBWT
PEET MTG PAVLICEK, V.	ELECTRONIC TECH	SCRIPPS INSTITUTION	SEABOBWT
PESP MPL DE MOUSTIER, C.	SCIENTIST	SCRIPPS INSTITUTION	SEABOBWT
PEST SIX POPP, D.	G.I.TECH	GENERAL INSTRUMENTS	SEABOBWT
PEST SIX WILLIAMS, J.	G.I.TECH	GENERAL INSTRUMENTS	SEABOBWT
PEST SIX STAFF, A.	G.I.TECH	GENERAL INSTRUMENTS	SEABOBWT
PESP GRD SHIPLEY, T.	SCIENTIST	SCRIPPS INSTITUTION	SEABOBWT
PEAT MTG CRAMPTON, P.	AIRGUN TECH	SCRIPPS INSTITUTION	SEABOBWT
PEAT MTG HUBENKA, F.	AIRGUN TECH	SCRIPPS INSTITUTION	SEABOBWT
PECT MTG CHARTERS, J.	COMPUTER TECH	SCRIPPS INSTITUTION	SEABOBWT
PEVL SIX WINTERER, C.	VOLUNTEER	NON-SCRIPPS EMPLOYEE	SEABOBWT
PEBO MTG SMITH, S.M.	SEABEAM OPERATOR	SCRIPPS INSTITUTION	SEABOBWT
PEVL SIX SMITH, B.	VOLUNTEER	NON-SCRIPPS EMPLOYEE	SEABOBWT

****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

0200	181281			LBUW	B UNDERWAY WATCH LOG	GDC	32-368N	117-266W	sSEABOBWT
2345	221281			LBUW	E UNDERWAY WATCH LOG	GDC	32-376N	117-310W	sSEABOBWT

*** ECHO SOUNDER RECORDS ***

0200	181281			DPR3	B PDR 3.5 KHZ R-01	GDC	32-368N	117-266W	sSEABOBWT
2334	191281			DPR3	E PDR 3.5 KHZ R-01	GDC	32-530N	120-517W	sSEABOBWT
2345	191281			DPR3	B PDR 3.5 KHZ R-02	GDC	32-529N	120-517W	sSEABOBWT
1723	221281			DPR3	E PDR 3.5 KHZ R-02	GDC	32-429N	118-333W	sSEABOBWT
1739	221281			DPR3	B PDR 3.5 KHZ R-03	GDC	32-423N	118-293W	sSEABOBWT
2346	221281			DPR3	E PDR 3.5 KHZ R-03	GDC	32-376N	117-307W	sSEABOBWT

*** ECHO SOUNDER RECORDS - SEA BEAM MONITOR ***

0200	181281			MBRM	B SEABEAM 12 KHZ R-01	GDC	32-368N	117-266W	sSEABOBWT
0345	191281			MBRM	E SEABEAM 12 KHZ R-01	GDC	32-309N	120-286W	sSEABOBWT
0357	191281			MBRM	B SEABEAM 12 KHZ R-02	GDC	32-309N	120-308W	sSEABOBWT
1647	211281			MBRM	E SEABEAM 12 KHZ R-02	GDC	32-542N	120-559W	sSEABOBWT
1701	211281			MBRM	B SEABEAM 12 KHZ R-03	GDC	32-562N	120-557W	sSEABOBWT
2346	221281			MBRM	E SEABEAM 12 KHZ R-03	GDC	32-376N	117-307W	sSEABOBWT

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

SEA BEAM ARCHIVE SWATH BOOKS

0200	181281			MBSB	B SB ARC SWATH BK 01	GDC	32-368N	117-266W	sSEABOBWT
0508	181281			MBSB	B SB ARC SWATH BK 01	GDC	32-399N	118-033W	sSEABOBWT
0510	181281			MBSB	B SB ARC SWATH BK 02	GDC	32-399N	118-037W	sSEABOBWT
0327	191281			MBSB	B SB ARC SWATH BK 02	GDC	32-308N	120-255W	sSEABOBWT
0746	191281			MBSB	B SB ARC SWATH BK 03	GDC	32-328N	120-306W	sSEABOBWT
1530	201281			MBSB	B SB ARC SWATH BK 03	GDC	32-557N	120-580W	sSEABOBWT
1534	201281			MBSB	B SB ARC SWATH BK 04	GDC	32-563N	120-580W	sSEABOBWT
0850	221281			MBSB	B SB ARC SWATH BK 04	GDC	32-490N	120-246W	sSEABOBWT
0854	221281			MBSB	B SB ARC SWATH BK 05	GDC	32-494N	120-246W	sSEABOBWT
2146	221281			MBSB	B SB ARC SWATH BK 05	GDC	32-381N	118-023W	sSEABOBWT

END SAMPLE INDEX