

**REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA**

PHOENIX EXPEDITION

LEG 4 (Test Trip)
=====

R/V Melville

(Issued July 1993)

San Diego, Calif (03 September 1992)
to
San Diego, Calif (05 September 1992)

Chief Scientist:

Christian de Moustier (Scripps Institution)

Resident Marine Technician - Gene Pillard

Computer Technicians - George Bouchard
Ronald Moe
Michael Moore

Sea Beam/Underway Processor - Stuart M. Smith

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 I.D.# 260

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 with seismic reflection data have a wide black line along the bottom of the profile).

Sample Index - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines if 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. Internet Email: ssmith@ucsd.edu

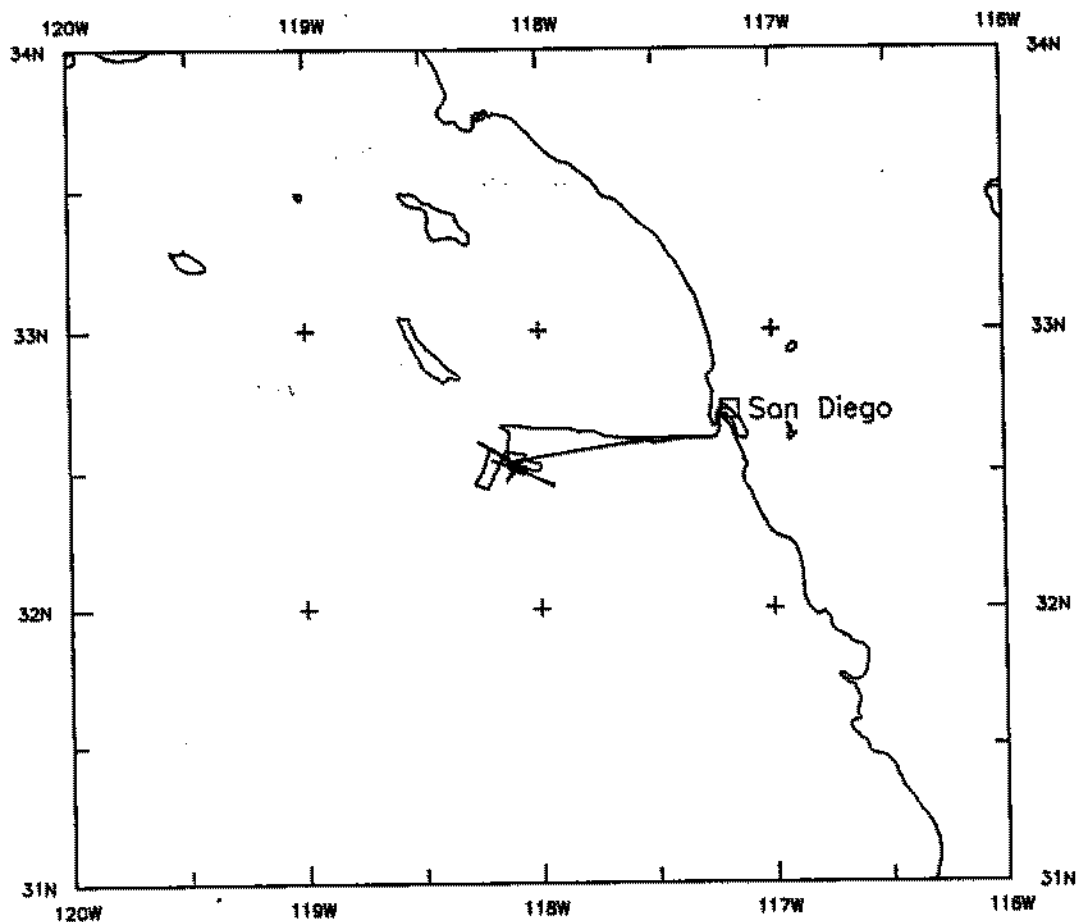
1. Files on Exabyte, DAT or 1/2 inch magnetic tape:
 - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
 - b) These same data in a merged ASCII file in the MGD77 Exchange format.
 - c) SeaBeam depth data (binary, Sun byte order) in SIO Swath Bathymetry format (not available on 1/2" tape).
 - d) SeaBeam Sidescan data (not available on 1/2" tape).
2. Microfilm (35mm flowfilm) or Xerox copies of:
 - a) Underway Watch log book.
 - b) SeaBeam vertical beam profile/Sidescan records.
 - c) Echosounder records - 3.5 kHz frequency.
 - d) Magnetometer records.
 - e) Seismic reflection profiler records.
3. Navigation listing with times and positions of fixes and course and speed changes.
4. Plots:
 - a) Copies of archived 1.2"/degree scale trackplots.
 - b) Copies of archived 8"/degree scale SeaBeam depth plots.
 - c) Custom plots in Mercator projection:
 - 1) Track plots.
 - 2) SeaBeam depth contour plots.
 - 3) Depth, magnetic or gravity values printed or profiled along track.

SeaBeam 2000 Data Collection

This was a short test cruise at the end of Phoenix Expedition with testing of the Sea Beam 2000 the main purpose rather than scientific data collection.

The Sea Beam data remain proprietary to the SIO Shipboard Technical Support Group.

July 1993



PHOENIX LEG 4 (PHNX04MV)

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PHOENIX EXPEDITION LEG 4 - Test Trip

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CHIEF SCIENTIST: Christian de Moustier, SIO

PORTS: San Diego - San Diego, Calif.

DATES: 3 September - 5 September 1992

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 249 miles

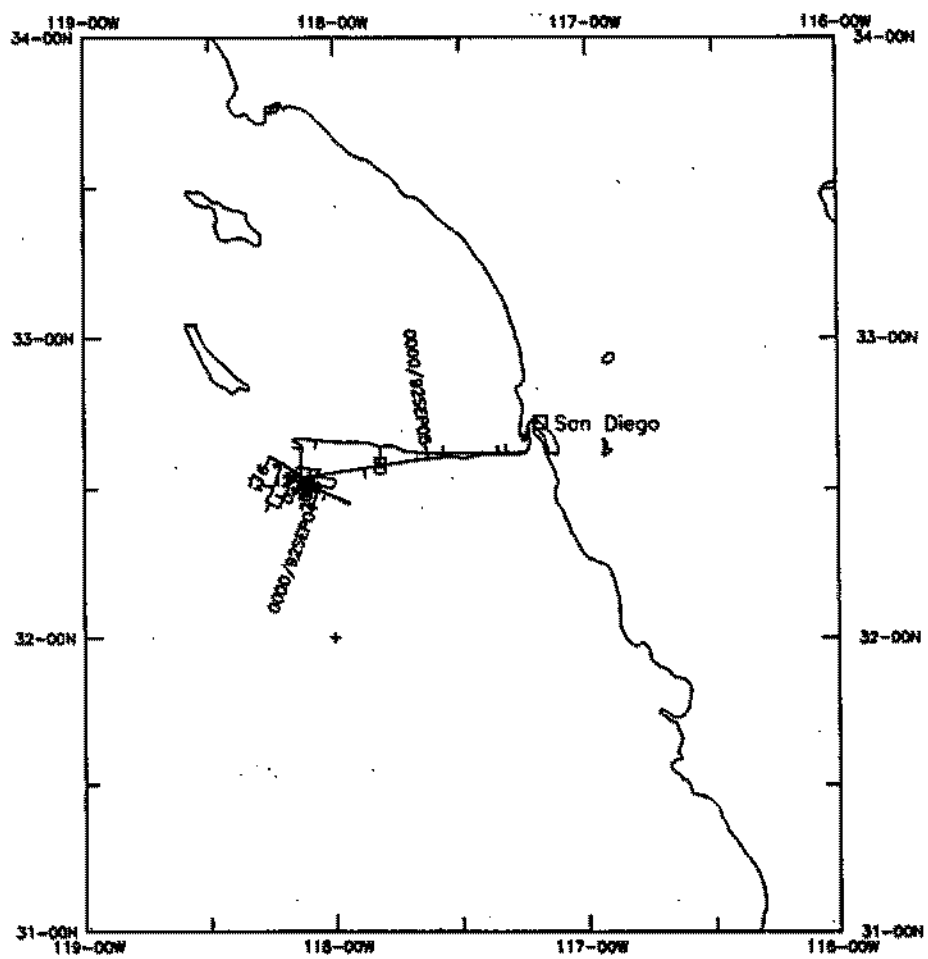
Magnetics - none collected

Bathymetry - 140 miles

Seismic Reflection - none collected

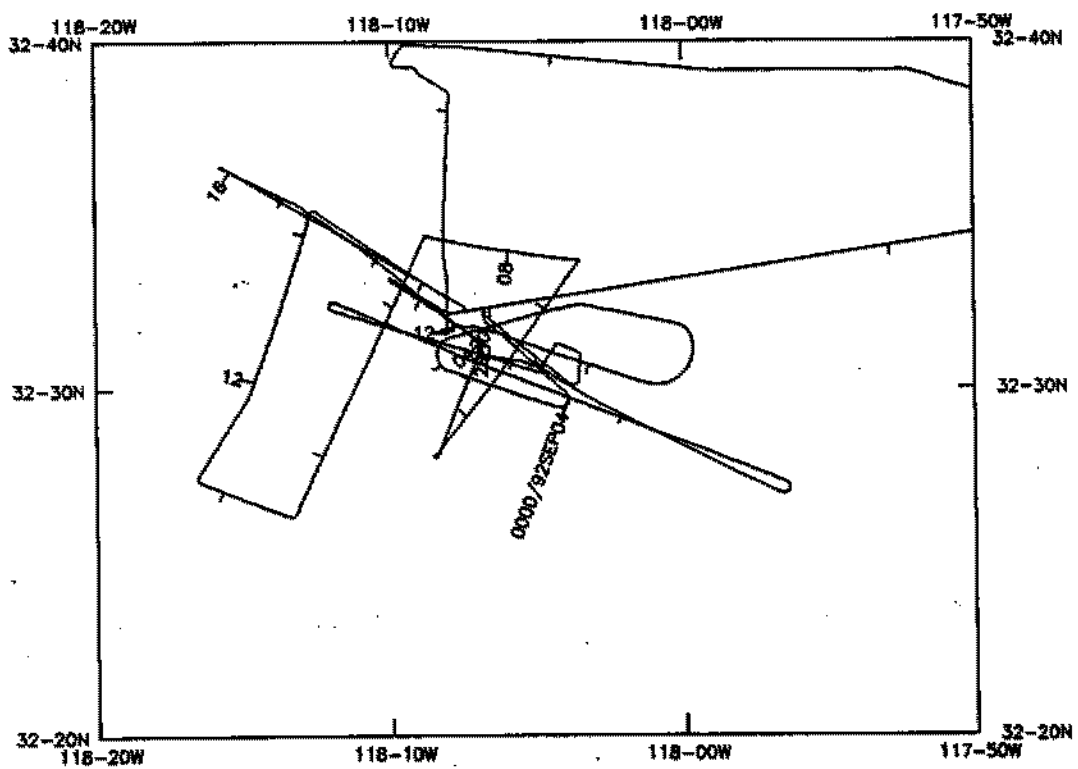
Sea Beam - 140 miles

Gravity - none collected



PHOENIX LEG 4 (PHNX04MV)

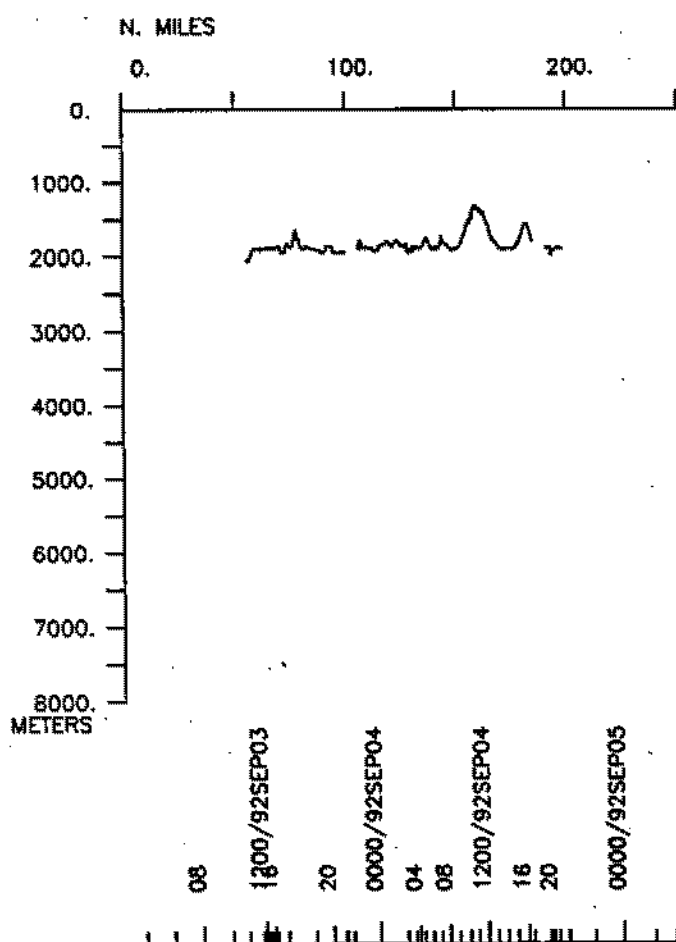
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PHOENIX LEG 4 (PHNX04MV)
Survey area

✱

PHOENIX LEG 4 (PHINX04MV) DEPTH



S.I.O. SAMPLE INDEX

(Issued July 1993)

PHOENIX EXPEDITION

Leg 4

R/V Melville

San Diego, Calif. (03 September 1992)
to
San Diego, Calif. (05 September 1992)

Chief Scientist:

Christian de Moustier (Scripps Institution)

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.# 280

**** Ports ***

0500	030992	0	LGPT B	San Diego, Calif.	32-43.00N	117-11.00W	f	PHNX04MV
0300	050992	0	LGPT E	San Diego, Calif.	32-43.00N	117-11.00W	f	PHNX04MV

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS MPL	de Moustier,C.	Chief Scientist	Scripps Institution	PHNX04MV
PECT STS	Bouchard,G.	Computer Tech	Scripps Institution	PHNX04MV
PESP SIX	Calisi,A.	Technician	Seabeam Instr.	PHNX04MV
PESP SIX	Capel,J.	Technician	Seabeam Instr.	PHNX04MV
PESP MARF	Clark,T.	Electronic Tech	Scripps Institution	PHNX04MV
PESP SIX	Clewes,B.	Technician	Technical Services	PHNX04MV
PESP GBN	Cowls,S.	Technician	TSS Ltd.	PHNX04MV
PESP SIX	Daniels,A.	Technician	J.J.McMullen	PHNX04MV
PESP USD	Desjardins,L.	Volunteer	U C San Diego	PHNX04MV
PESP SIX	Eddy,D.	Technician	EDO Instr.	PHNX04MV
PESP SIX	Glow,s.	Technician	Seabeam Instr.	PHNX04MV
PESP SIX	Golden,B.	Technician	J.J.McMullen	PHNX04MV
PESP SIX	Harris,M.	Scientist	GLORIA, Op.	PHNX04MV
PEBE STS	Heckman,E.	Seabeam Tech	Scripps Institution	PHNX04MV
PECT STS	Moe,R.	Computer Tech	Scripps Institution	PHNX04MV
PECT STS	Moore,M.	Computer Tech	Scripps Institution	PHNX04MV
PESP SIX	Ledet,R.	Technician	Scripps Institution	PHNX04MV
PESP MARF	Peterson,E.	Consultant	Scripps Institution	PHNX04MV
ERT STS	Pillard,E.	Resident Tech	Scripps Institution	PHNX04MV
PESP SIX	Reed,S.	Technician	Ross Hill	PHNX04MV
PESP SIX	Rolland,D.	Technician	J.J.McMullen	PHNX04MV
PEBE STS	Skinner,J.	Seabeam Tech	Scripps Institution	PHNX04MV
PEBO STS	Smith,S.	Seabeam processer	Scripps Institution	PHNX04MV
PESP SIX	Staff,A.	Technician	Seabeam Instr.	PHNX04MV
PESP MARF	Warren,S.	Staff	Scripps Institution	PHNX04MV

**** 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.

#GMT DDMYY	SAMP B SAMPLE	DISP		P CRUISE
#TIME DATE TZ	CODE E IDENTIFIER	CODE LATITUDE	LONGITUDE	C LEG-SHIP

*** Underway Data Curator - S. M. Smith ext. 42752 ***

*** Sea Beam Records (vertical beam and side scan) ***

0500 030992	0 MBSB B v.beam/sidescan r-01	GDC	32-42.40N 117-14.17W	g PHNX04MV
0239 050992	0 MBSB E v.beam/sidescan r-01	GDC	32-42.40N 117-14.18W	g PHNX04MV

*** Sea Beam Swath Books ***

0500 030992	0 MBSB B SB2000 swath bk-01	GDC	32-42.40N 117-14.17W	g PHNX04MV
0239 050992	0 MBSB E SB2000 swath bk-01	GDC	32-42.40N 117-14.18W	g PHNX04MV

*** Expendable Bathythermographs ***

1010 030992	0 BTXP xbts 01 & 02	GDC	32-35.89N 118-08.08W	g PHNX04MV
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*** End Sample Index PHNX04MV