REPORT AND INDEX OF

UNDERWAY MARINE GEOPHYSICAL DATA

PHOENIX EXPEDITION

LEG 1

R/V Melville

(Issued March 1993)

San Diego, California (7 July 1992) to Acapulco, Mexico (16 July 1992)

Chief Scientist:

Christian de Moustier (Scripps Institution)

Resident Marine Technician - Seth Mogk

Computer Technicians - Ron Moe and Jim Charters

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: NSF Grant Number OCE91-02183 and 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.

- depth, magnetic anomaly and gravity free air anomaly vs. Profiles 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 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. 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.

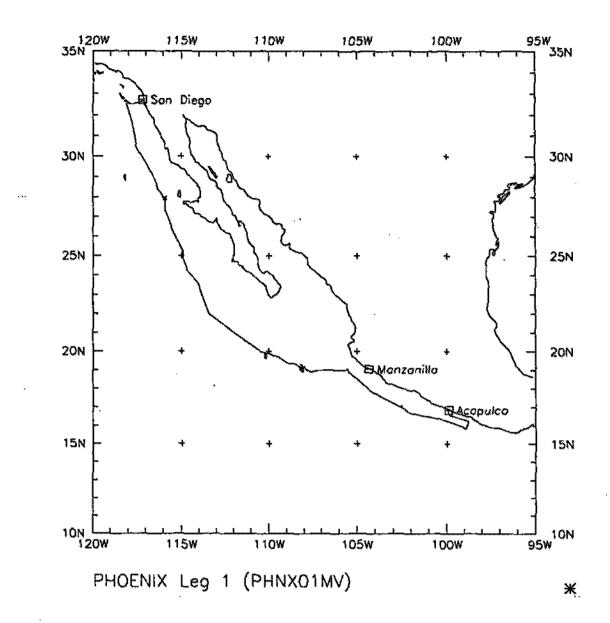
SeaBeam 2000 Data

Phoenix Leg 1 was primarily a check out cruise for the newly installed Sea Beam 2000 multibeam echo sounder with no funds available for data post processing. These data are proprietary to the SIO Shipboard Technical Support Group.

Seabeam data were displayed intermittently on the hardcopy recorder but not digitally logged on this leg.

May 1993

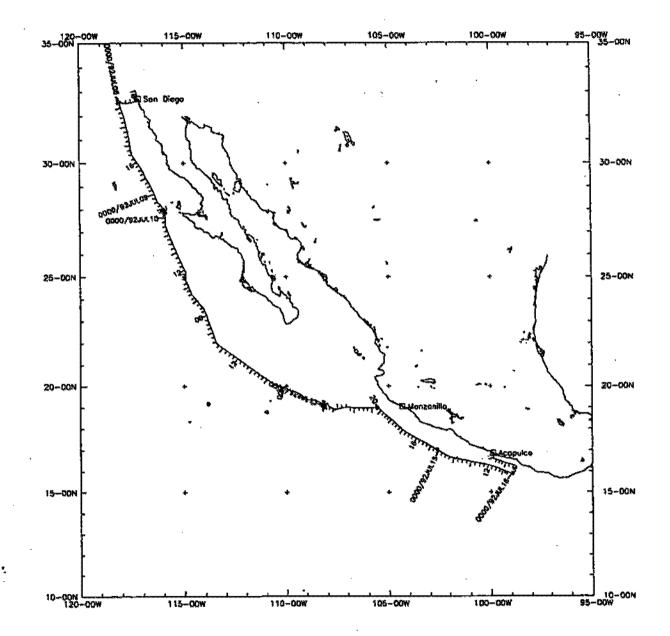
*



PHOENIX EXPEDITION LEG 1

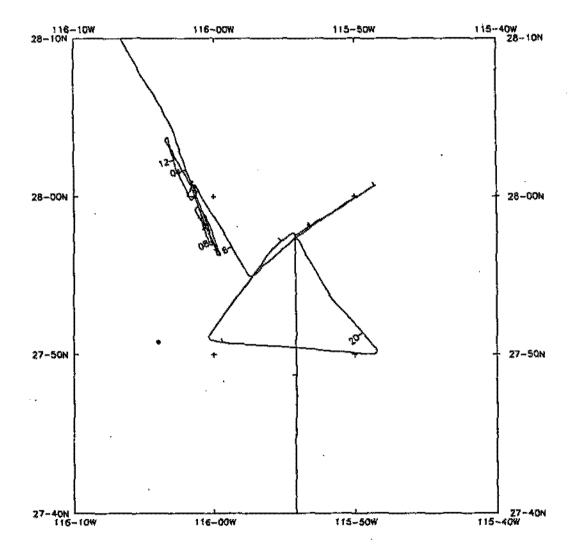
ŧ

CHIEF SCIENTIST: Christian de Moustier, SIO PORTS: San Diego, Calif. - Acapulco, Mexico DATES: 7 - 16 July 1992 SHIP: R/V Melville TOTAL MILEAGE OF UNDERWAY DATA COLLECTED Cruise - 2166 miles Magnetics - 1446 miles Bathymetry - 1860 miles Seismic Reflection - tests only Sea Beam - 1860 miles* Gravity - none collected *collected in ancillary mode



PHOENIX Leg 1 (PHNX01MV1

Ж

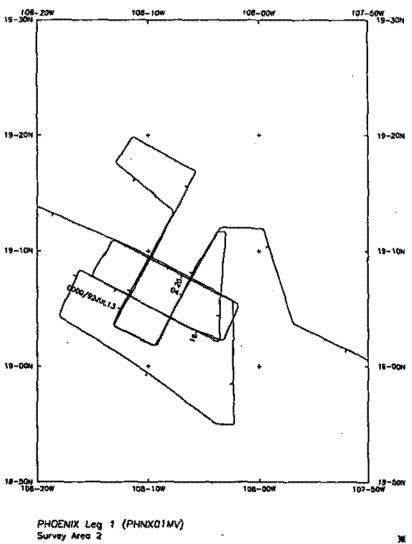


PHOENIX Leg 1 (PHNX01MV) Survey Area 1

÷

۰.

Ж



.

..

.

,

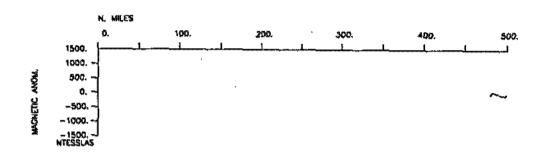
.

.

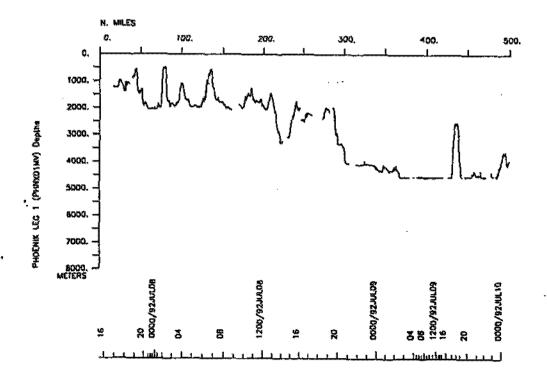
۳,

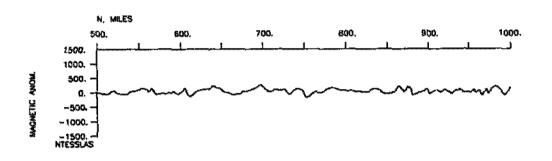
,

ж

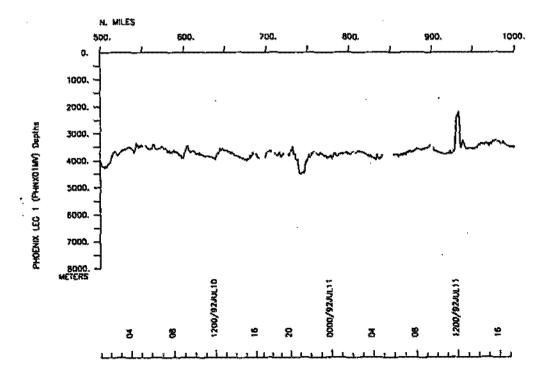


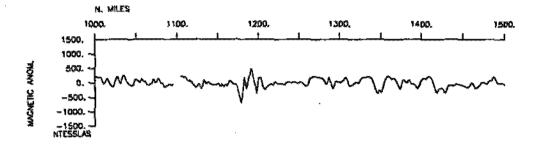
,

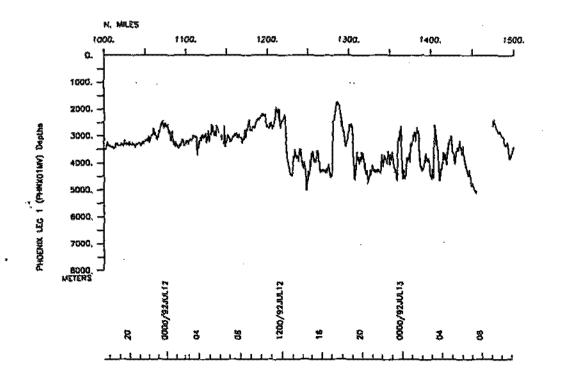


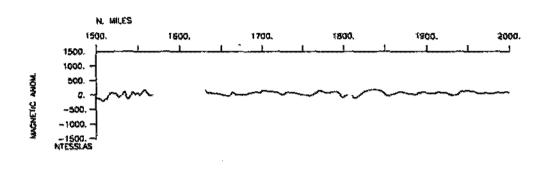


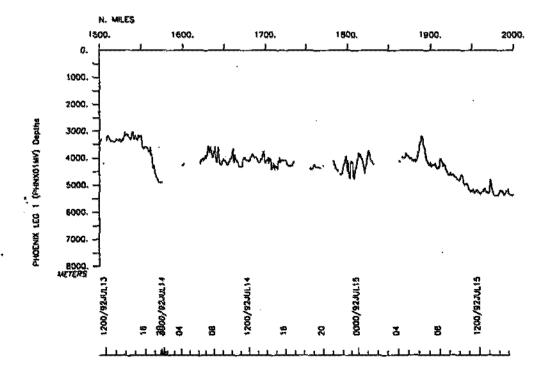
7. -

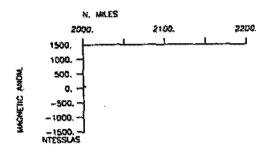


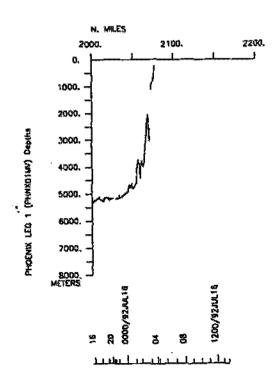












.

.

.

.

S.I.O. SAMPLE INDEX

(Issued May 1993)

PHOENIX EXPEDITION

Leg 1

R/V Melville

San Diego, California (7 July 1992) t6 Acapulco, Mexico (18 July 1992)

Chief Scientist:

¥т.,т¥

٩,

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.# 260

#*** Ports ***

	0707 1607			32-40.00N 117-14.00W f 16-51.00N 99-56.00W f	
县★★★ ⋕ ⋕───	Pers	onnel *** *******NAME*******	*****TITLE*****	****AFFILIATION****	**CRID**
PECS PESP PESP PESP PESP PESP PESP PESP	MPL GRD DIR VOL STS STS STS STS STS STS STS STS STS ST	deMoustier,C. Lonsdale,P. Mammerickx,J. Shor,G. Shor,E. Adams,G. Charters,J. Crampton,P. Heckman,E. Mogk,S. Skinner,J. Smith,S.M. Calisi,A. Collins,D. Glow,S. Goodwin,W. Staff,A.	Chief Scientist Scientist Scientist Scientist Volunteer Programmer Computer tech Geophys tech Hardware tech Computer tech Resident tech Hardware tech Seabeam processor Seabeam tech Seabeam tech Seabeam tech Seabeam tech Seabeam tech	Scripps Institution Scripps Institution SeaBeam Instr. Inc. SeaBeam Instr. Inc. SeaBeam Instr. Inc. SeaBeam Instr. Inc.	PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV PHNX01MV
PEXN PEXN PEXN	CCS CCS	Delgado,L. Mendoza,R. Ruiz,C.	Observer Observer Observer	CISESE, Ensenada CISESE, Ensenada CISESE, Ensenada	PHNXO1MV PHNXO1MV PHNXO1MV PHNXO1MV

#*** 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. Jun 10 08:49 1993 PHOENIX.LEG.1.SAMPLE.INDEX Page 2

#GMT DDMMYY SAMP B SA #TIME DATE TZ CODE E ID #	MPLE DENTIFIER	DISP CODE LATITUDE	LONGITUDE C	CRUISE LEG-SHIP				
#*** Underway Data Curat	or - S. M. Smith e	xt. 42752 ***						
#*** Log Books ***								
1500 070792 0 LBSC B Un 1500 160792 0 LBSC E Un	derway log book derway log book	GDC 32-40.10N GDC 16-50.62N	117-13.69W g 99-54.02W g	PHNX01MV PHNX01MV				
#*** Sea Beam Records (vertical beam and side scan) ***								
1900 070792 0 MBSR B v. 0330 160792 0 MBSR E v.	beam/sidescan r-01 beam/sidescan r-01	GDC 32-35.24N GDC 16-10.54N	117-59.58W g 98-44.65W g	PHNX01MV PHNX01MV				
#*** Seismic Reflection	Records ***							
1655 100792 O SPRS B fa 0653 140792 O SPRS E fa		SGG 24-24.97N SGG 18-32.83N	114-44.33W g 105-00.77W g	PHNX01MV PHNX01MV				
1655 100792 0 SPRS B sl 0653 140792 0 SPRS E sl		SGG 24-24.97N SGG 18-32.83N	114-44.33W g 105-00.77W g	PHNX01MV PHNX01MV				
<pre>#*** Magnetics (Earth To</pre>	tal Field) Records	***						
2300 090792 0 MGRA B mag 1700 150792 0 MGRA E mag	g roll 1 g roll 1	GDC 27-48.71N GDC 15-59.71N	115-54.14W g 99-17.31W g	PHNXO1MV PHNXO1MV				
#*** Expendable Bathythe	rmographs ***		,					
0109 090792 0 BTXP Xb 1400 120792 0 BTXP Xb 1717 130792 0 BTXP Xb	t 2 · · · t 3 t 4	GDC 19-13.26N GDC 19-01.37N	118-09.55W g 116-20.70W g 108-18.59W g 105-34.41W g 99-09.63W g	PHNXO1MV PHNXO1MV PHNXO1MV				
*	End Sample Inde	x		PHNX01MV				

.

•.

• .

.

٩