

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

(Issued November 1983)

OASIS EXPEDITION

LEG 1

San Diego, Calif. (13 April 1982)
to
Mazatlan, Mexico (28 April 1982)

R/V Melville

Chief Scientist - R. Hessler (SIO)

Resident Marine Tech - J. Boaz

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Data Collection Funded by NSF
Grant Number NSF-OCE80-24472
Data Processing funded by SIA and NSF

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.# - 197

* Only navigation and Sample Index included in this report.

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

Contents:

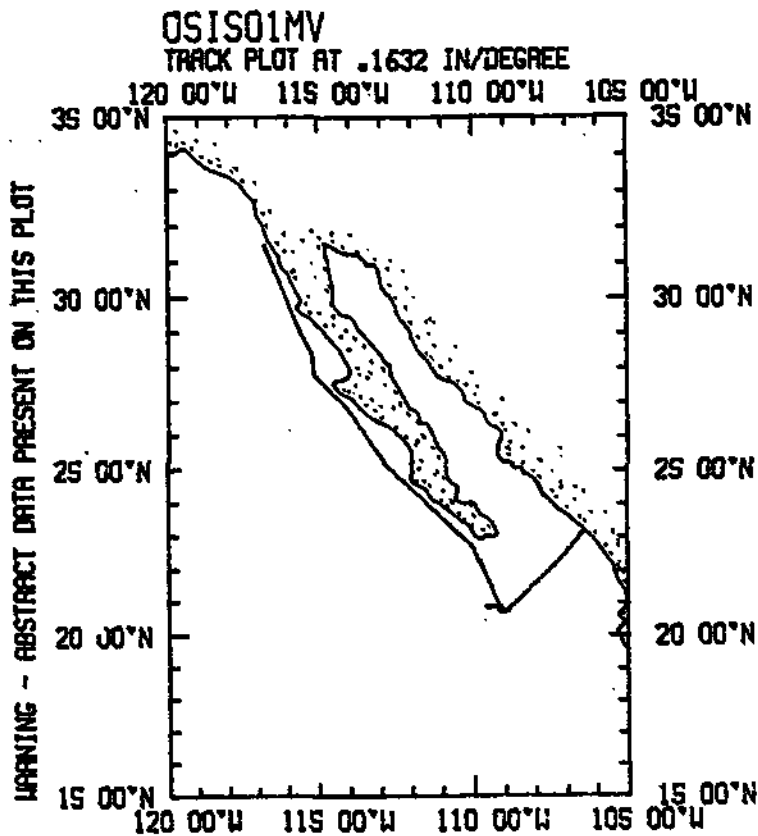
- Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.
- Track Charts - annotated with dates (day/month) and hour ticks. The scale is .312 in/degree longitude.
- Profiles - depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a wide black line along the bottom of the profile. Sections having Sea Beam are indicated by a narrow line.
- Sample Index - list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the 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, California 92093. Phone (714) 452-2752.

1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
2. Depth Compilation Plots - Compilation plots at the traditional scale of 4"/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 magnetic anomaly profiles along track - map scale = 1.2inch/degree, anomaly scale between 15N and 15 S latitude = 500 gamma/inch, anomaly scale north of 15N and south of 15S = 1000 gamma/inch, from values retrieved at approximately 1 mile spacing and regional field removed using the 1980 IGRF.
4. Separate time series files of navigation, depth and magnetics of 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 (airgun)
 - c. Magnetometer records
 - d. Underway data log

Rev June 1982 (Sea Beam)

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OASIS EXPEDITION
LEG 1

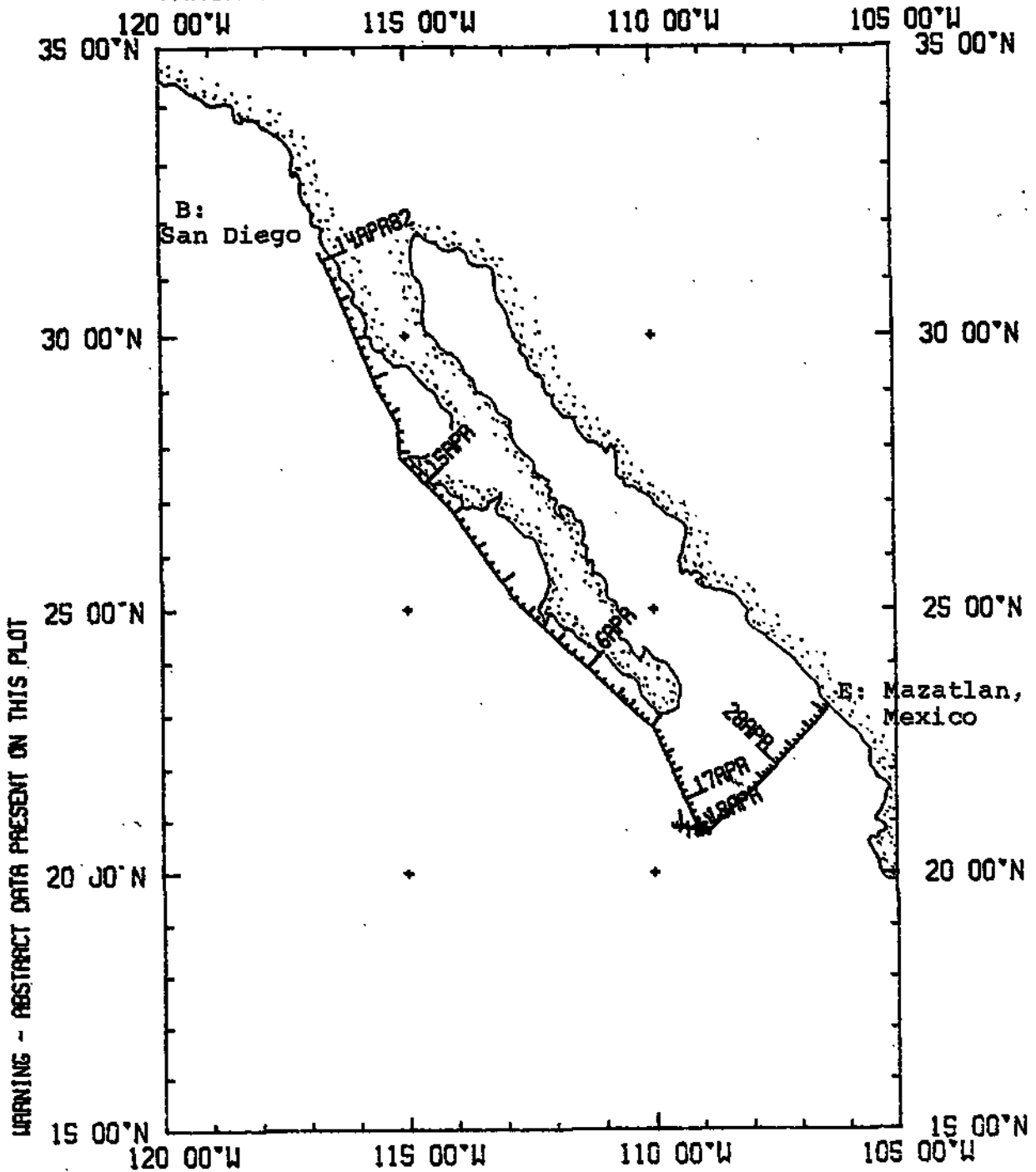
CHIEF SCIENTIST- R. Hessler (SIO)
Ports: San Diego, Calif. - Mazatlan, Mexico
Dates: 13 - 28 April 1982
Ship: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 1444 miles
- 2) Bathymetry - none collected
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

OSIS01MV

TRACK PLOT AT .312 IN/DEGREE



S.I.O. Sample Index
(Issued November 1983)

OASIS EXPEDITION

Leg 1

San Diego, Calif. (13 April 1982)
to
Mazatlan, Mexico (28 April 1982)

R/V Melville

Chief Scientist - R. Hessler (SIO)

Resident Marine Tech - J. Boaz

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Index Encoding Funded by NSF
Grant Number OCE80-22996
Index Processing and Report Preparation
funded in part by SIA

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 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 cards. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

S.I.O. SAMPLE INDEX

GENERATED 17NOV83

*** OASIS LEG 1 SAMPLE INDEX

(0S1S01MV) ***

	60E	120E	180	120W	60W	0W	
.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....							
'X' = SHIP'S TRACK BY 5 DEGREE SQUARE							
85N							85N
80N					0	0000	80N
75N		0		0	00000	000000000	75N
70N		000000000000		0000	0	00000000	70N
65N	0000	00000000000000000000000000000000		0000000000000000	0	0000	65N
60N	00000000000000000000000000000000			00000000000000	00	00	60N
55N	0	0000000000000000000000000000	0	0	00000000	000	0
50N	00000000000000000000000000000000			0000000000	0000		00
45N	00000000000000000000000000000000			00000000000000	0		
40N	0	00	0	0000000000000000			
35N	0	000000000000000000000000		0000000000			0
30N	000	000000000000000000000000		0000000000			00
25N	00000000000000000000000000000000			0000	0		000
20N	00000000000000000000000000000000		0	0	00		000
15N	000000000000	0	00	0			000
10N	0000000000	0	0	0			000
5N	000000000000				000000		000
0N	00000000	00	00		000000		000
5S	00000000	0	0	0	00000000		000
10S	000000		00		0000000000		000
15S	000000		0	0	00000000		000
20S	00000000		000000		000000		000
25S	000000		00000000		00000000		000
30S	00		0000000000		0000		000
35S	00		00	000	000000		000
40S			00	0	000		000
45S			0		00		000
50S					00		000
55S					0		000
60S							000
65S							000
70S	00	00000000000000000000000000000000			0		000
75S	00000000000000000000000000000000			0	000000	0000	000
80S	00000000000000000000000000000000			00000000000000000000000000000000	000000	00000000	000
85S	00000000000000000000000000000000			00000000000000000000000000000000	00000000000000000000000000000000	0000000000000000	000
90S	00000000000000000000000000000000			00000000000000000000000000000000	00000000000000000000000000000000	0000000000000000	000
.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....							
	60E	120E	180	120W	60W	0W	

13APR82 - SAN DIEGO, CALIF.

28APR82 - MAZATLAN, MEXICO

CHIEF SCIENTIST - HESSLER, R. MBR

SHIP - R/V MELVILLE (SIO)

PRODUCED BY GEOLOGICAL DATA CENTER, SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA 92093

NUMBER OF SAMPLES OF CLASS 'TYPE' GOING TO DESTINATION 'DISP'

DISP	TYPE		TOTAL
	CO	PE	
CLU	I	1 I	1
FNC	I	2 I	2
GCR	I	4 I	4
MBD	I	2 I	2
MTG	I	2 I	2
SIO	I	1 I	1
SIX	I	10 I	10
UCS	I	6 I	6
WHO	I	5 I	5
MBR	I	1 I	1
TOTAL	I	4 30 I	34

SAMPLE 'TYPE' CODES USED ABOVE

CO = CURE
PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE 'DISP' CODES USED ABOVE

CLU = CORNELL UNIVERSITY, ITHACA, N. Y.
FNC = FRANCE
GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
MBD = MARINE BIOLOGY RESEARCH DIVISION (EXT. 4245)
MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
UCS = UNIV. CALIF. SANTA BARBARA
WHO = WOODS HOLE OCEANOGRAPHIC INSTITUTION

GMT D / M / Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT. LONG.	LEG-SHIP CRUISE
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OASIS LEG 1 SAMPLE INDEX

OSIS01MV

*** PORTS ***

1600 13/ 4/82			LGPT B SAN DIEGO, CALIF.		32 43. N 117 11. W	F OSIS01MV
1646 28/ 4/82			LGPT E MAZATLAN, MEXICO		23 12. N 106 26. W	F OSIS01MV

*** PERSONNEL ***

*** NAME *** *** TITLE *** *** AFFILIATION ***

1 HESSLER, R.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 HOAZ, J.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 MOORE, M.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 ARP, A.	LAR TECH	UNIV. CALIF. SANTA BARBARA
5 BEGLEY, S.	NEWSWEEK REPORTER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
6 BERG, C.	SCIENTIST	WOODS HOLE OCEANOGRAPHIC INSTITUTION
7 CALVARIO, M.	MEXICAN OBSERVER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
8 CHILDRESS, J.	SCIENTIST	UNIV. CALIF. SANTA BARBARA
9 COLGAN, C.	PUBLIC RELATIONS	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 CONTRERAS, J.	MEXICAN OBSERVER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
11 CULLEN, V.	PUBLIC RELATIONS	WOODS HOLE OCEANOGRAPHIC INSTITUTION
12 DEMBART, L.	L.A. TIMES REPORT.	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
13 DINET, A.	SCIENTIST	FRANCE
14 EDELMAN, J.	DEV. TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 FAVUZZI, J.	MARINE TECH	UNIV. CALIF. SANTA BARBARA
16 FISHER, C.	TECHNICIAN	UNIV. CALIF. SANTA BARBARA
17 GAILL, F.	SCIENTIST	FRANCE
18 GIANNESCHI, D.	CBS REPORTER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
19 GRASSLE, J.	SCIENTIST	WOODS HOLE OCEANOGRAPHIC INSTITUTION
20 KLEIN SCHMIDT, M.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
21 LOWELL, W.	TECHNICIAN	UNIV. CALIF. SANTA BARBARA
22 LUTZ, R.	RUTGERS SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
23 KANNES, E.	CBS REPORTER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
24 MILLS, S.	TECHNICIAN	WOODS HOLE OCEANOGRAPHIC INSTITUTION
25 PRICE, M.	TECHNICIAN	UNIV. CALIF. SANTA BARBARA
26 ROESI JADI, G.	SCIENTIST B.P.LAR	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
27 SANDERS, H.	SCIENTIST	WOODS HOLE OCEANOGRAPHIC INSTITUTION
28 SMITHEY, W.	STAFF RES. ASSOC.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
29 SULLIVAN, W.	N.Y. TIMES REPORT.	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
30 VAN DOVER, C.	TECHNICIAN	CORNELL UNIVERSITY, ITHACA, N.Y.

NOTES

AN 'X' IN THE (B)EGIN/(F)IND 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 THIS LEG. (MURKED 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 D /M /Y	LOC	LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME	TZ	SAMP		DISP			CRUISE

**** GRAVITY CORES **** CURATOR - W. RIEDEL EXT. 4386

0819	23/	4/82	COGV	GRAVITY CORE	GCR 20	52.9N	109 32.9W	S 051501MV
1149	23/	4/82	COGV	GRAVITY CORE	GCR 20	53.9N	109 25.6W	S 051501MV
0627	27/	4/82	COGV	GRAVITY CORE	GCR 20	44.1N	108 52.6W	S 051501MV
1003	27/	4/82	COGV	GRAVITY CORE	GCR 20	50.8N	108 50.5W	S 051501MV

9900

END SAMPLE INDEX

051501MV

