

INFORMAL REPORT AND INDEX OF
NAVIGATION AND DEPTH DATA

(Issued August 1979)

INDOMED EXPEDITION

LEG 17

Mazatlan, Mexico (11 April 1979)
to
San Diego, California (29 April 1979)

R/V Melville

Chief Scientist - F. Spiess (SIO)

Resident Marine Tech - J. Coatsworth

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

Data Collection Funded by NSF
Grant Number OCE7801664
Data Processing Funded by SIA, NSF and ONR

NOTE: This is an index of underway geophysical data edited and processed shortly 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.

Informal Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data**

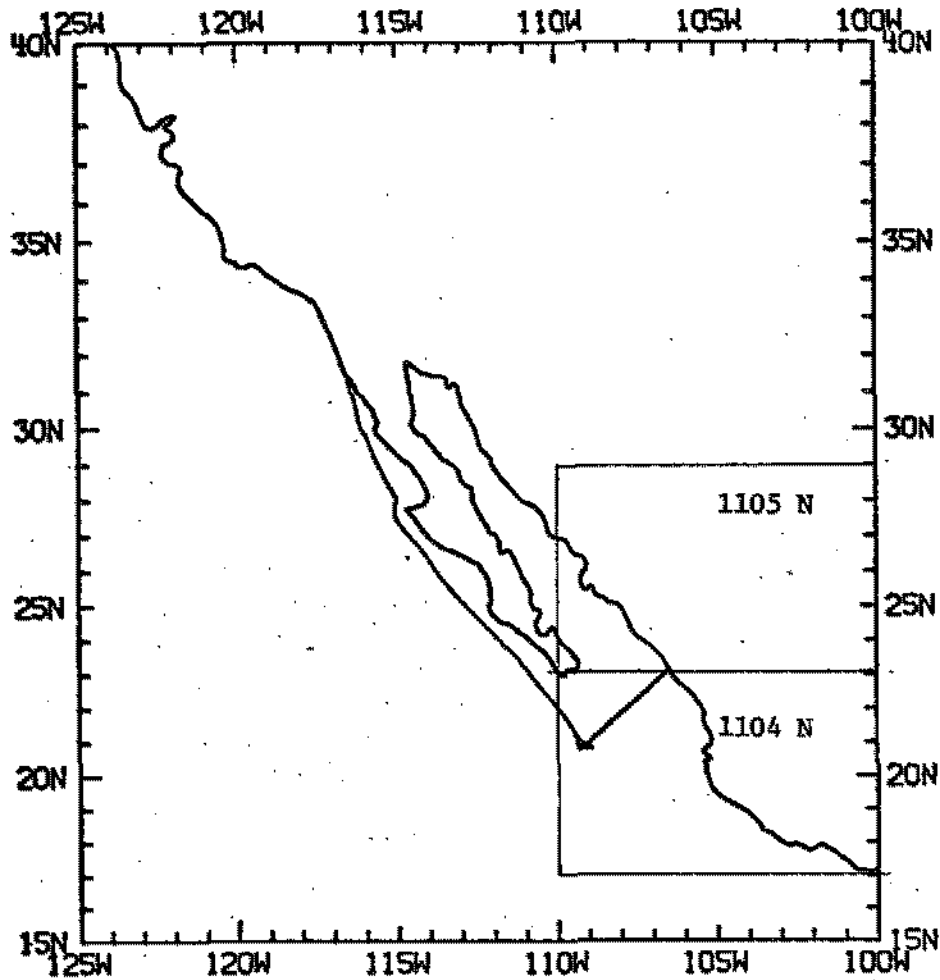
Contents:

- Index Chart** - gives track of cruise leg and boundaries of depth compilation plots (see below).
- Track Charts** - annotated with dates (day/month) and hour ticks. The scale is .3"/deg. long..
- 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 solid black line along the bottom of the profile.

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 - in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4"/degree with standard U. S. Navy Oceanographic Office BC series boundaries (see index chart).
3. Plots of magnetic anomaly profiles along track - map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamm/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamm/inch; from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 IGRF.
4. Card decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center).
5. S. I. O. 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.
6. 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

** NO SUBBOTTOM PROFILER OR MAGNETIC DATA COLLECTED



INDOMED EXPEDITION LEG 17

Chief Scientist: F. Spiess (SIO)

Ports: Mazatlan, Mexico to San Diego, California

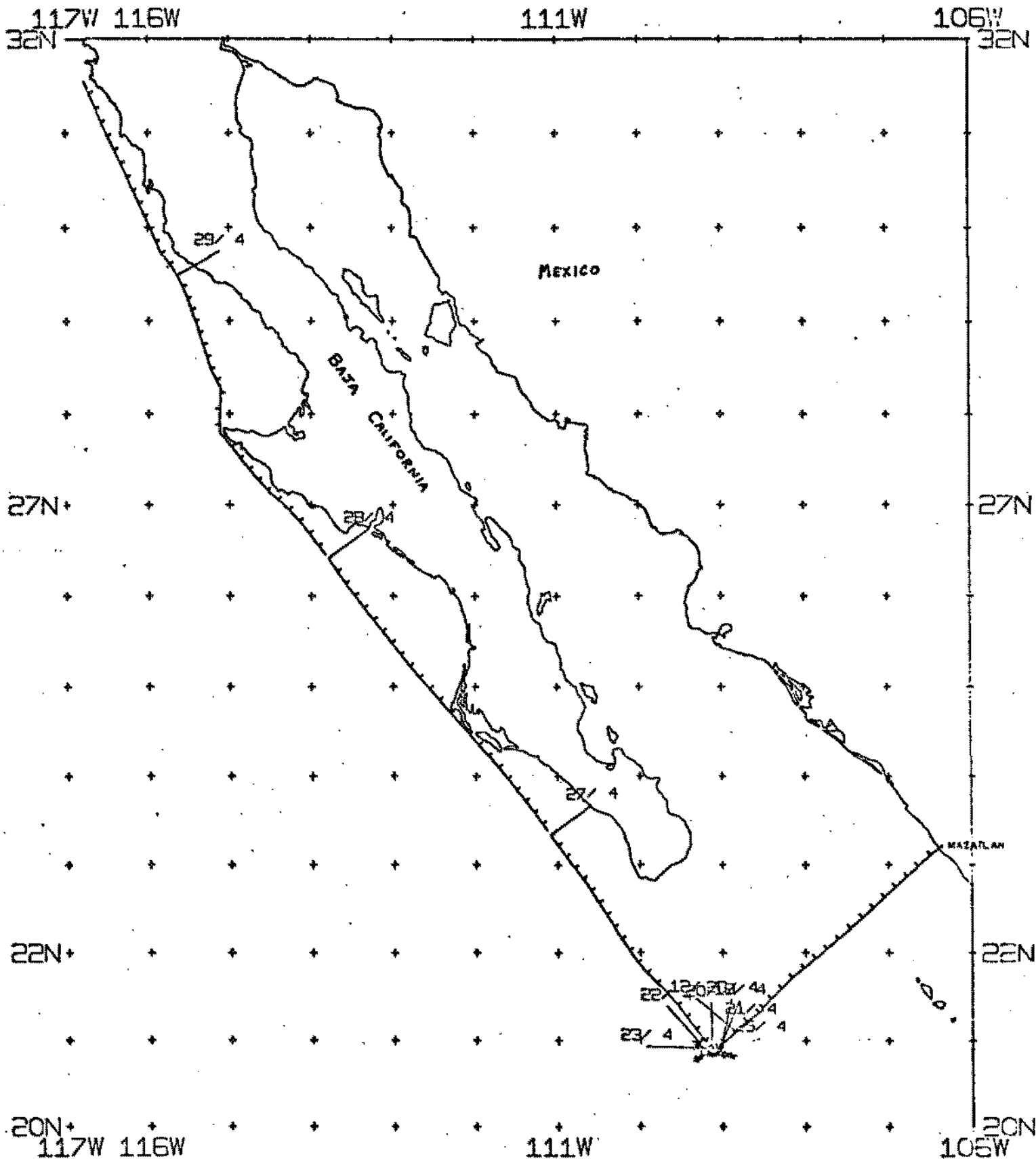
Dates: 11 April to 29 April 1979

Ship: R/V Melville

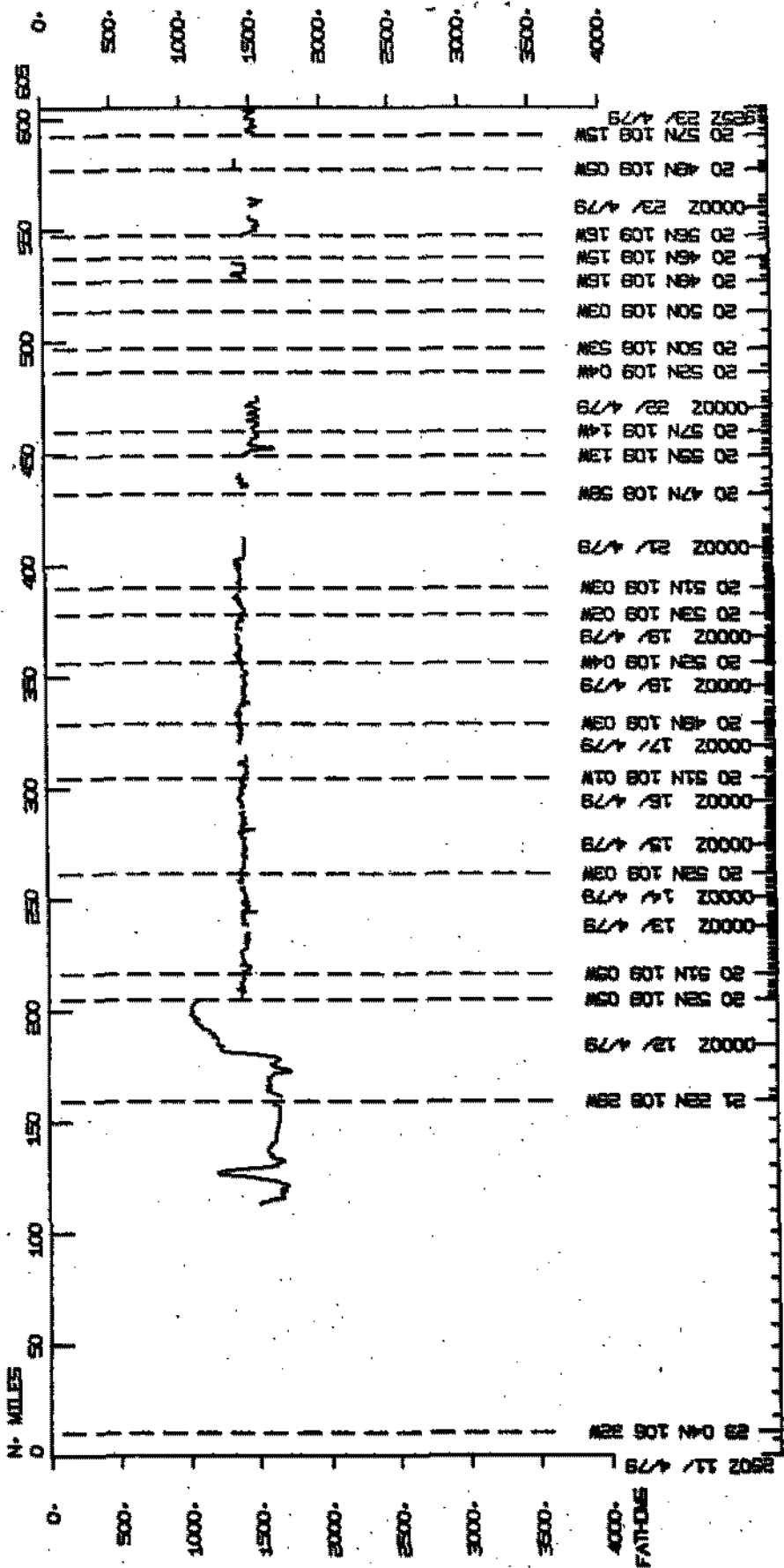
TOTAL MILEAGE

- 1) Cruise - 1489 miles
- 2) Bathymetry - 400 miles
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

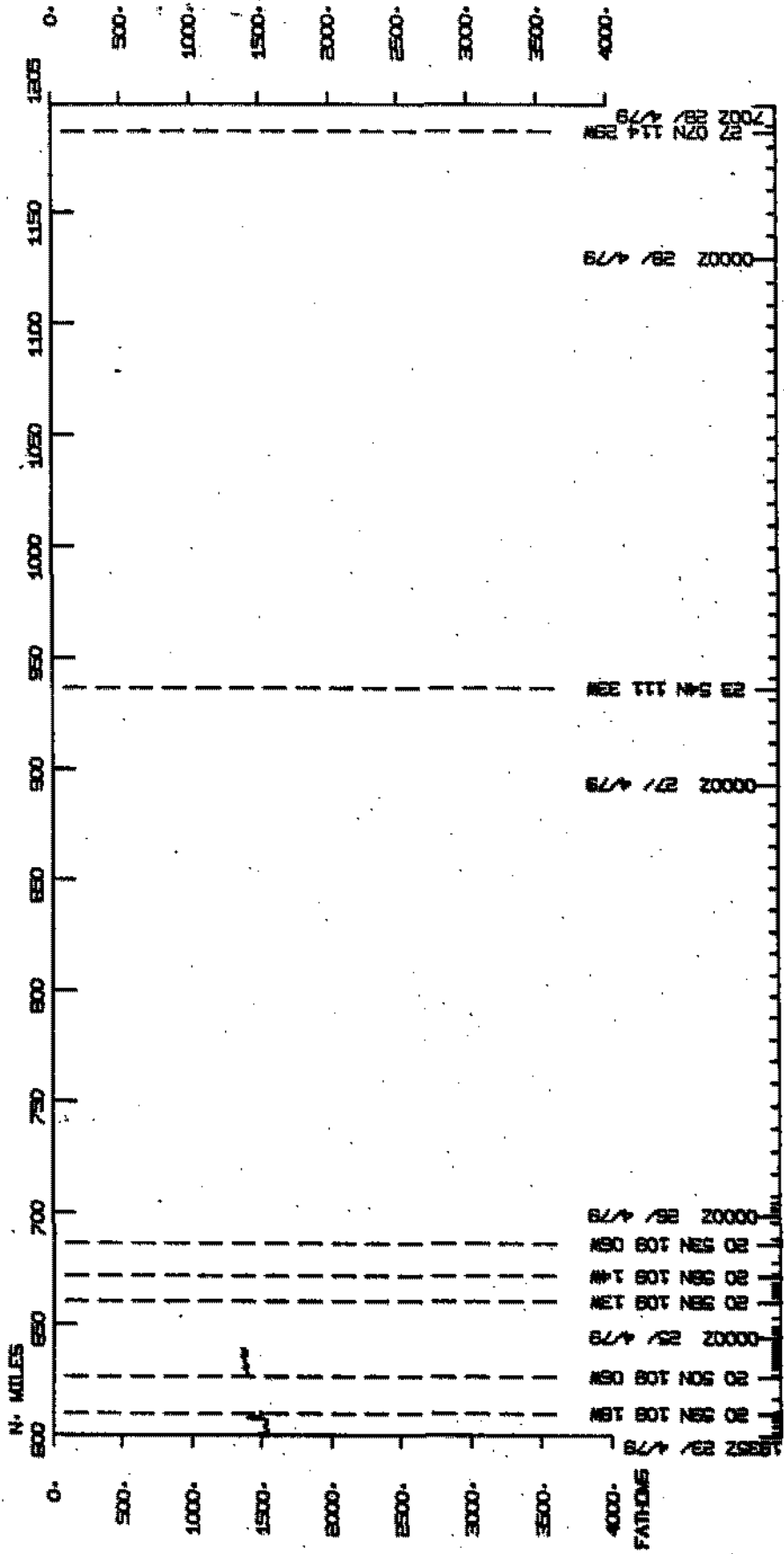
INM017MV TRACK PLOT (1 OF 1)



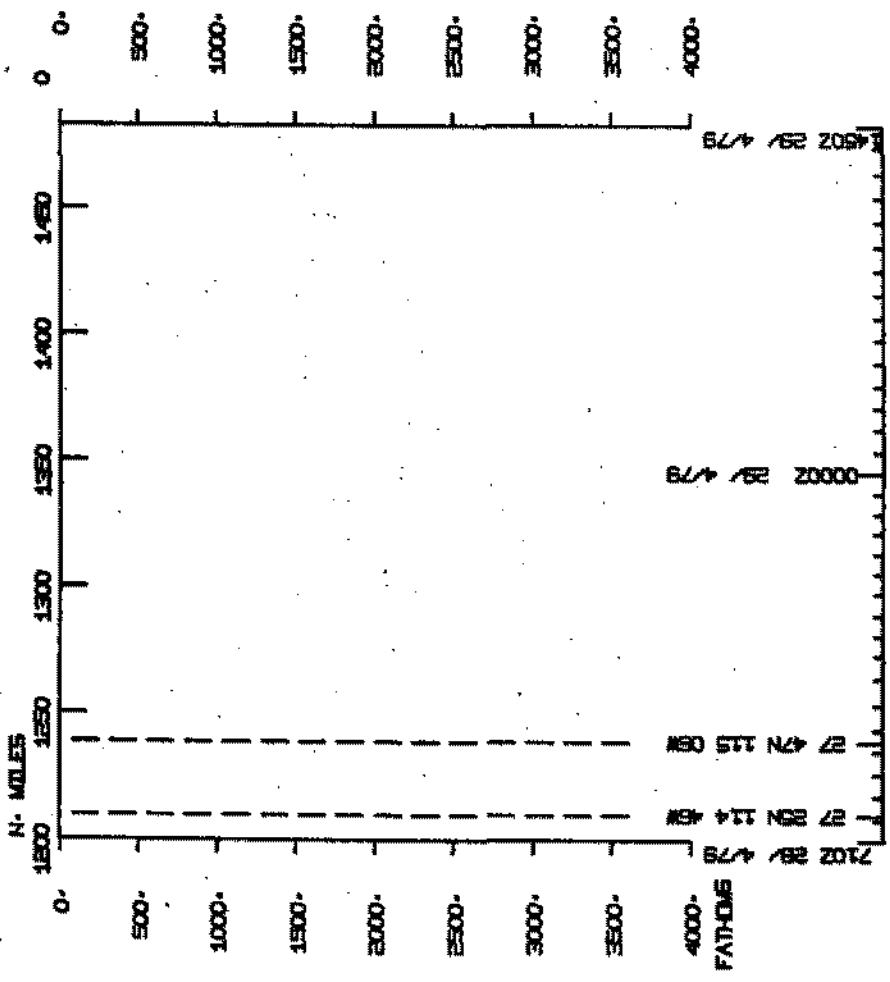
INDOMED LEG 17



INDOMED LEG 17



INDOMED LEG 17



S.I.O. SAMPLE INDEX

(Issued August 1979)

INDOMED EXPEDITION

LEG 17

Mazatlan, Mexico (11 April 1979)

San Diego, California (29 April 1979)

R/V Melville

Chief Scientist - F. Spiess (SIO)

Resident Marine Tech - J. Coatsworth

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

Index Encoding Funded by NSF
Grant Number OCE76-80618
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.)

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

DISP	TYPE								TOTAL
	CA	DP	DR	EF	LB	PE	SR		
COX	1			4				1	4
GCR	1		7					1	7
GDC	1	2			1			1	3
GRD	1					5		1	5
GSU	1					1		1	1
LMD	1						5	1	5
MLR	1					2		1	2
MPL	1					3		1	3
MTG	1					1		1	1
NPX	1					1		1	1
SCG	1					1		1	1
SIO	1					4		1	4
SIX	1					5		1	5
UCS	1					2		1	2
WHO	1	8				8		1	16
TOTAL	1	8	2	7	4	1	33	5	60

SAMPLE 'TYPE' CODES USED ABOVE

CA = CAMERA
 DP = DEPTH
 DR = DREDGE
 EF = ELECTRIC FIELD
 LB = LOG BOOKS
 PE = PERSONNEL IN SCIENTIFIC PARTY
 SR = SEISMIC STATION - SHOOTING RUN

SAMPLE 'DISP' CODES USED ABOVE

COX = CHARLES S. COX (PHYSICAL OCEANOGRAPHY EXT. 3235)
 GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
 GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
 GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
 GSU = U.S. GEOLOGICAL SURVEY
 LMD = LEFROY M. DORMAN (EXT. 2406)
 MLR = MARINE LIFE RESEARCH GROUP (EXT. 2866)
 MPL = MARINE PHYSICAL LAB. (EXT. 2305)
 MTG = MARINE TECHNOLOGY GROUP (EXT. 4194)
 NPX = NORTH PACIFIC EXPERIMENT (EXT. 3226)
 SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
 SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - (CONTACT DORCAS (ITTER EXT. 2356)
 UCS = UNIV. CALIF. SANTA BARBARA
 WHO = WOODS HOLE OCEANOGRAPHIC INSTITUTION

MT D /M /Y ME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
INDUMED EXPEDITION, LEG 17							INMD17MV

** PORTS **

20 11/ 4/79		LGPT B MAZATLAN, MEX.			23 12. N 106 26. W	F	INMD17MV
54 29/ 4/79		LGPT E SAN DIEGO, CAL.			31 43. N 117 11. W	F	INMD17MV

PERSONNEL

** NAME **	** TITLE **	** AFFILIATION **
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2 MAC DONALD K.	DR SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 LUYENDYK, B.	DR SCIENTIST	UNIV. CALIF. SANTA BARBARA
4 BALLARD, R. D.	DR SCIENTIST	WOODS HOLE OCEANOGRAPHIC INSTITUTION
5 COX, C.	DR SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 NORMARK, W. R.	DR SCIENTIST	U.S. GEOLOGICAL SURVEY
7 FRANCHETEAU, J.	DR SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356
8 HAWKINS, J.	DR SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
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2 LARSON, R. (LANONT)	SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356
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5 PORTEOUS, JOHN W.	TECHNICIAN	WOODS HOLE OCEANOGRAPHIC INSTITUTION
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7 GEGG, S.	TECHNICIAN	WOODS HOLE OCEANOGRAPHIC INSTITUTION
8 HAYMON, RACHEL M.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
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0 SHURE, LOREN	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
1 OTT, JOHN D.	PROGRAMMER	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 MAC KENZIE, KEVIN C.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 COATSWORTH, JAMES L.	RFS TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 TOTTEN, J.	TECHNICIAN	WOODS HOLE OCEANOGRAPHIC INSTITUTION
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6 HANDY, R.	TECHNICIAN	WOODS HOLE OCEANOGRAPHIC INSTITUTION
7 DEATON, T.	TECHNICIAN	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
8 BERLINER, D.	TECHNICIAN	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
9 UP DE GRAFF, JAYE	STUDENT	UNIV. CALIF. SANTA BARBARA
0 DIAZ-GARCIA, V.	SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356
1 BALLARD, C.	ENGINEER	WOODS HOLE OCEANOGRAPHIC INSTITUTION
2 FERRIS, F.	TECHNICIAN	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 YOUNG, P.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093

NOTES AN 'X' IN THE (BEGIN/FIND 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.
 (HOOKED 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 CONNECTED METERS.

GMT D / M / Y TIME DATE	LOC LOC TIME T2	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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UNDERWAY DATA CURATOR - STUART M. SMITH (EXT.2752)

*** LOG BOOKS ***

0320 11/ 4/79		LRBW B	UNDERWAY WATCH	GDC 23	10.3N	106 23.9W	S INMD17MV
2010 24/ 4/79		LRBW E	UNDERWAY WATCH	GDC 20	49.8N	109 08.5W	S INMD17MV

*** FATHOGRAMS ***

1430 11/ 4/79		DPR3 B	GDR 3.5 KHZ R-01	GDC 21	52.9N	107 55.8W	S INMD17MV
0000 19/ 4/79		DPR3 E	GDR 3.5 KHZ R-01	GDC 20	50.3N	109 06.6W	S INMD17MV
0020 19/ 4/79		DPR3 B	BDR 3.5 KHZ R-02	GDC 20	50.3N	109 07.0W	S INMD17MV
2010 24/ 4/79		DPR3 E	BDR 3.5 KHZ R-02	GDC 20	49.8N	109 08.5W	S INMD17MV

*** DREDGE *** CURATOR - W. RIEDEL EXT. 4386

2034 12/ 4/79		DRR B	131 D	2658M	GCR 20	55.3N	109 02.6W	S INMD17MV
2247 12/ 4/79		DRR E	131 D	2658M	GCR 20	54.3N	109 02.0W	S INMD17MV
0824 15/ 4/79		DRR B	132 D	2596M	GCR 20	50.9N	109 04.8W	S INMD17MV
0942 15/ 4/79		DRR E	132 D	2596M	GCR 20	52.4N	109 04.5W	S INMD17MV
1909 16/ 4/79		DRR B	133 D	2640M	GCR 20	55.9N	109 01.1W	S INMD17MV
2108 16/ 4/79		DRR E	133 D	2640M	GCR 20	56.1N	109 00.9W	S INMD17MV
0542 17/ 4/79		DRR B	134 D	2590M	GCR 20	50.7N	109 05.2W	S INMD17MV
0806 17/ 4/79		DRR E	134 D	2590M	GCR 20	50.4N	109 04.4W	S INMD17MV
1426 17/ 4/79		DRR B	135 D	2592M	GCR 20	50.6N	109 06.3W	S INMD17MV
1554 17/ 4/79		DRR E	135 D	2592M	GCR 20	50.2N	109 05.3W	S INMD17MV
2308 17/ 4/79		DRR B	136 D	2624M	GCR 20	54.6N	109 02.1W	S INMD17MV
0006 18/ 4/79		DRR E	136 D	2624M	GCR 20	54.3N	109 01.3W	S INMD17MV
1242 22/ 4/79		DRR B	137 D	2810M	GCR 20	46.3N	109 16.6W	S INMD17MV
1545 22/ 4/79		DRR E	137 D	2810M	GCR 20	46.6N	109 15.2W	S INMD17MV

OCEAN BOTTOM SEISMOMETER

0510 13/ 4/79		SROB B	DOE 1 LAUNCH	LMD 20	52.1N	109 03.6W	S INMD17MV
2010 24/ 4/79		SROB C	DOE 1 LAUNCH	LMD 20	52.1N	109 03.6W	S INMD17MV
0459 14/ 4/79		SROB B	GWEN 1 LAUNCH	LMD 20	52.2N	109 04.3W	S INMD17MV
2010 24/ 4/79		SROB C	GWEN 1 LAUNCH	LMD 20	52.2N	109 04.3W	S INMD17MV

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.		LEG-SHIP CRUISE
1343	15/ 4/79			SR08 B	PHRED LAUNCH	LMD 20	52.3N	109 04.3W	S	INMD17MV
2010	24/ 4/79			SR08 C	PHRED LAUNCH	LMD 20	52.3N	109 04.3W	S	INMD17MV
0718	18/ 4/79			SR08 B	GWEN 2 LAUNCH	LMD 20	52.8N	109 04.4W	S	INMD17MV
2010	24/ 4/79			SR08 C	GWEN 2 LAUNCH	LMD 20	52.8N	109 04.4W	S	INMD17MV
1136	23/ 4/79			SR08 B	DOE 2 LAUNCH	LMD 20	50.3N	109 06.1W	S	INMD17MV
2010	24/ 4/79			SR08 C	DOE 2 LAUNCH	LMD 20	50.3N	109 06.1W	S	INMD17MV
*** CAMERA ***										
1533	13/ 4/79			CAWC B	ANGUS SLED 3 STILL	WHO 20	53.9N	109 02.2W	S	INMD17MV
0000	14/ 4/79			CAWC E	ANGUS SLED 3 STILL	WHO 20	54.3N	109 02.6W	S	INMD17MV
2112	14/ 4/79			CAWC B	ANGUS SLED 4 STILL	WHO 20	55.9N	109 01.7W	S	INMD17MV
0734	15/ 4/79			CAWC E	ANGUS SLED 4 STILL	WHO 20	51.3N	109 04.6W	S	INMD17MV
0115	16/ 4/79			CAWC B	ANGUS SLED 5 STILL	WHO 20	49.9N	109 04.4W	S	INMD17MV
1302	16/ 4/79			CAWC E	ANGUS SLED 5 STILL	WHO 20	52.5N	109 03.8W	S	INMD17MV
0152	17/ 4/79			CAWC B	ANGUS SLED 6 STILL	WHO 20	50.5N	109 05.4W	S	INMD17MV
0251	17/ 4/79			CAWC E	ANGUS SLED 6 STILL	WHO 20	50.7N	109 05.8W	S	INMD17MV
0934	18/ 4/79			CAWC B	ANGUS SLED 7 STILL	WHO 20	50.5N	109 06.7W	S	INMD17MV
1756	18/ 4/79			CAWC E	ANGUS SLED 7 STILL	WHO 20	50.6N	109 05.9W	S	INMD17MV
0439	19/ 4/79			CAWC B	ANGUS SLED 8 STILL	WHO 20	52.0N	109 04.5W	S	INMD17MV
1956	19/ 4/79			CAWC E	ANGUS SLED 8 STILL	WHO 20	50.3N	109 06.9W	S	INMD17MV
0350	20/ 4/79			CAWC B	ANGUS SLED 9 STILL	WHO 20	52.5N	109 04.1W	S	INMD17MV
1747	20/ 4/79			CAWC E	ANGUS SLED 9 STILL	WHO 20	49.7N	109 06.6W	S	INMD17MV
0346	24/ 4/79			CAWC B	ANGUS SLED 10 STILL	WHO 20	50.5N	109 05.0W	S	INMD17MV
1208	24/ 4/79			CAWC E	ANGUS SLED 10 STILL	WHO 20	49.4N	109 06.8W	S	INMD17MV
ELECTRIC FIELD CURATOR J. FILLOUX (EXT.2075)										
0419	21/ 4/79			EFVF B	RECEIVER 1 LAUNCH	COX 20	51.6N	109 08.2W	S	INMD17MV
2010	24/ 4/79			EFVF C	RECEIVER 1 LAUNCH	COX 20	51.6N	109 08.2W	S	INMD17MV
0224	2/ 4/79			EFVF B	RECEIVER 2 LAUNCH	COX 20	59.2N	109 14.2W	S	INMD17MV
2010	24/ 4/79			EFVF C	RECEIVER 2 LAUNCH	COX 20	59.2N	109 14.2W	S	INMD17MV
0514	23/ 4/79			EFVF B	RECEIVER 3 LAUNCH	COX 20	56.3N	109 17.6W	S	INMD17MV
2010	24/ 4/79			EFVF C	RECEIVER 3 LAUNCH	COX 20	56.3N	109 17.6W	S	INMD17MV
1237	25/ 4/79			EFVA B	TOWED VEHICLE	COX 20	58.8N	109 15.6W	S	INMD17MV
1651	25/ 4/79			EFVA E	TOWED VEHICLE	COX 20	58.5N	109 15.4W	S	INMD17MV