INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH AND MAGNETIC DATA

(Issued January 24, 1978)

INDOMED EXPEDITION

LEG 1

San Diego, Cal. (24 September, 1977) to Balboa, Canal Zone (31 October, 1977) R/V Melville

Chief Scientist - F. Spiess (SIO)

Resident Marine Techs - W. Keith, S. Witherow

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

Data Collection Funded by NSF Grant Number OCE76-04724 Data Processing Funded by SIA, ONR and NSF

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 the institution without prior approval of the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

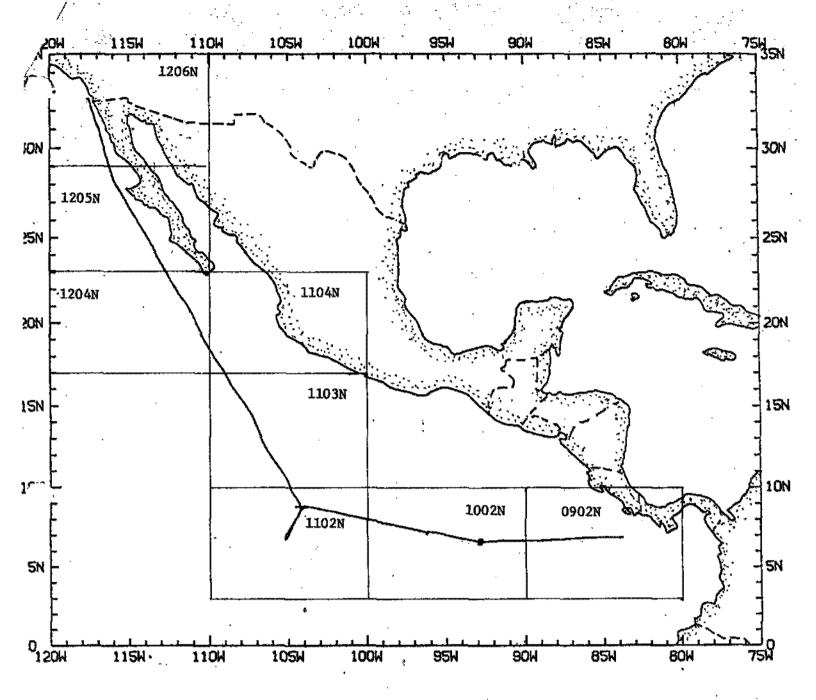
Informal Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

Contents:

- 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



INDOMED EXPEDITION LEG 1

Chief Scientist - F. Spiess (SIO)

Ports: San Diego, Cal. to Balboa, Canal Zone

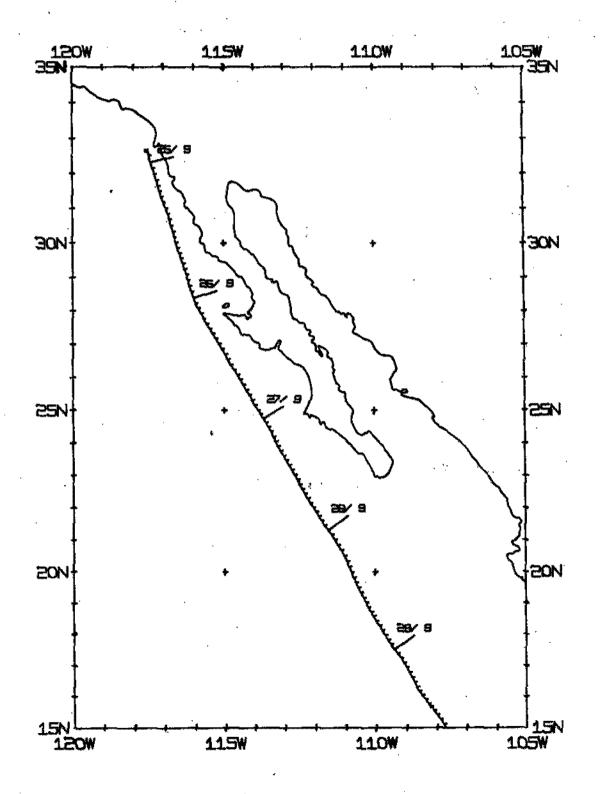
Dates: 24 September to 31 October 1977

TOTAL MILEAGE

- 1) Gruise 4406 miles
- 2) Bathymetry 2895 miles3) Magnetics 1466 miles
- 4) Seismic Reflection none collected

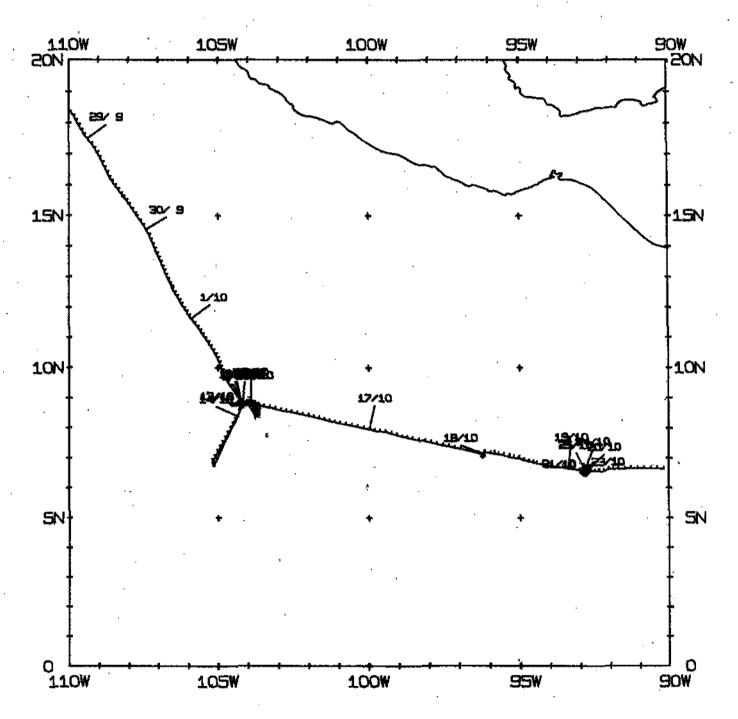
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MERCATOR PROJECTION, SCALE: 0.312 IN/DEG LONGITUDE



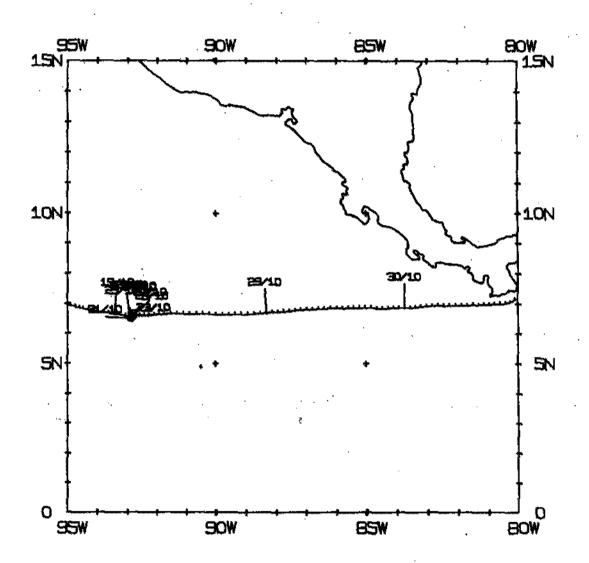
INMOOIMY TRACK PLOT (2 OF 3)

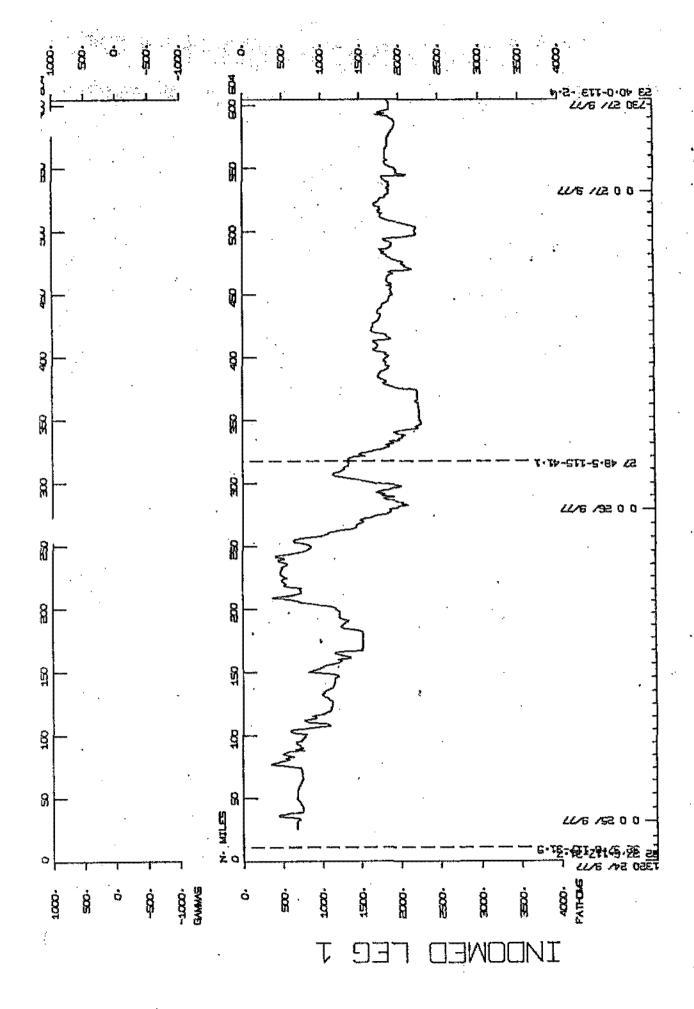
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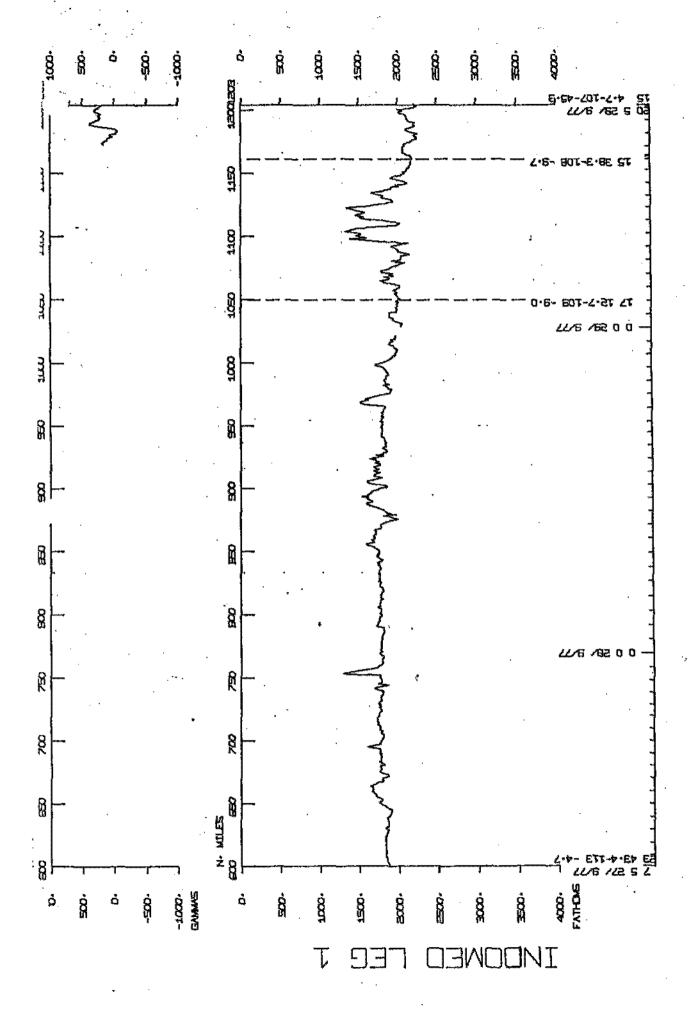


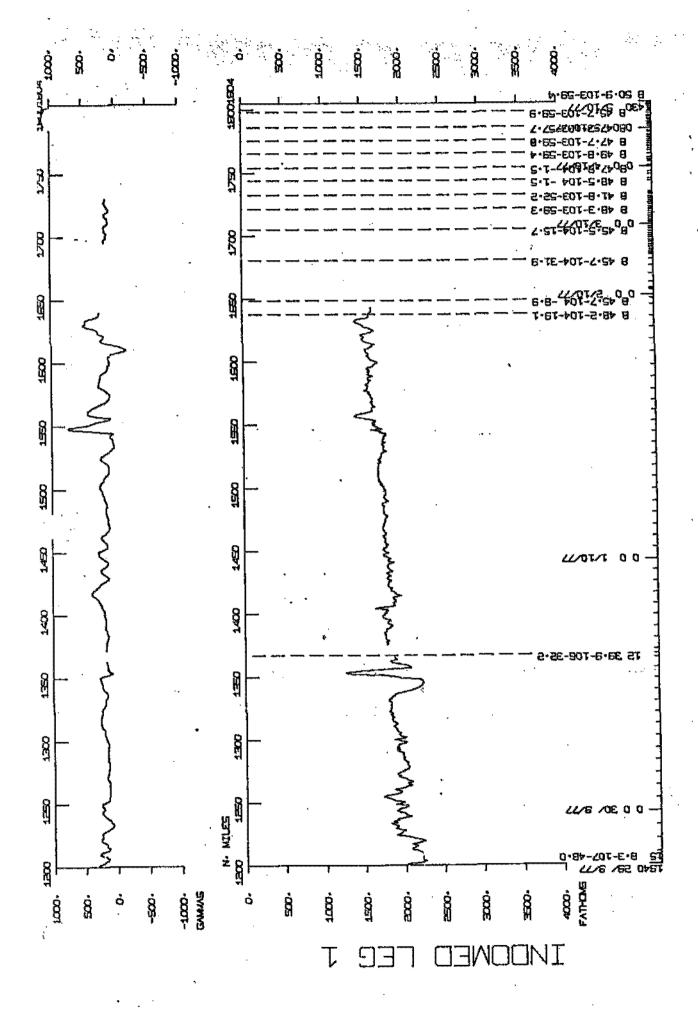
INMOOINV TRACK PLOT (3 OF 3)

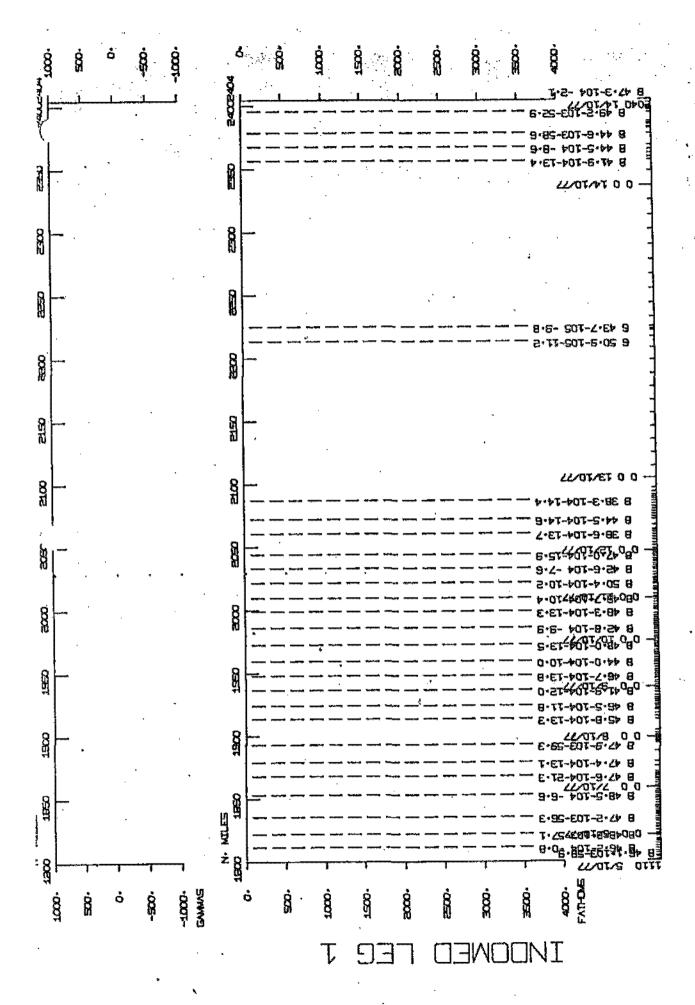
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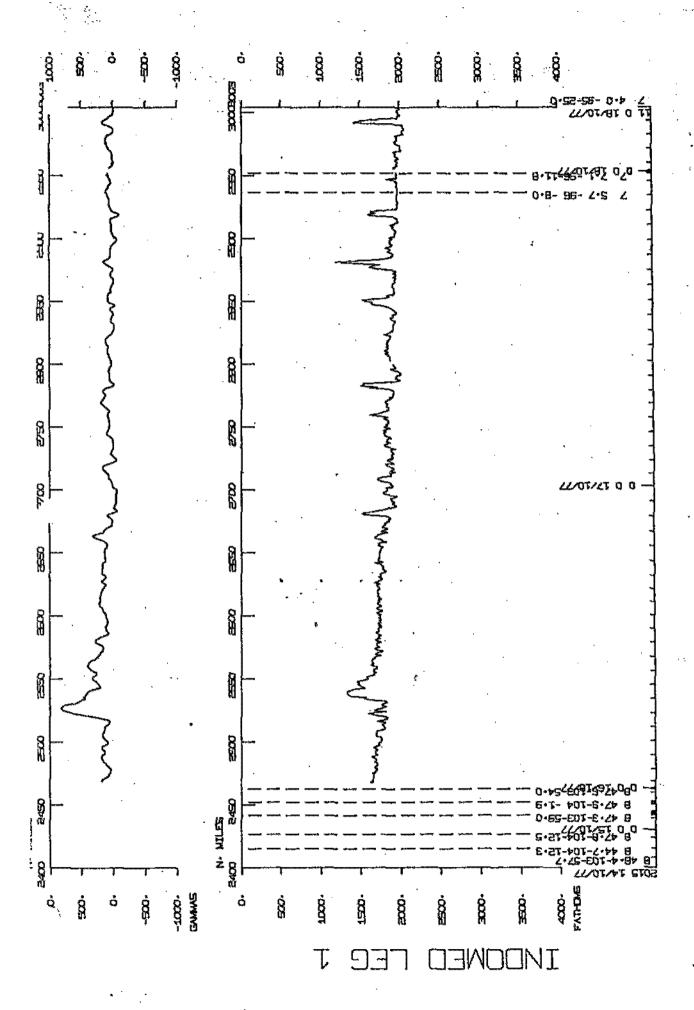


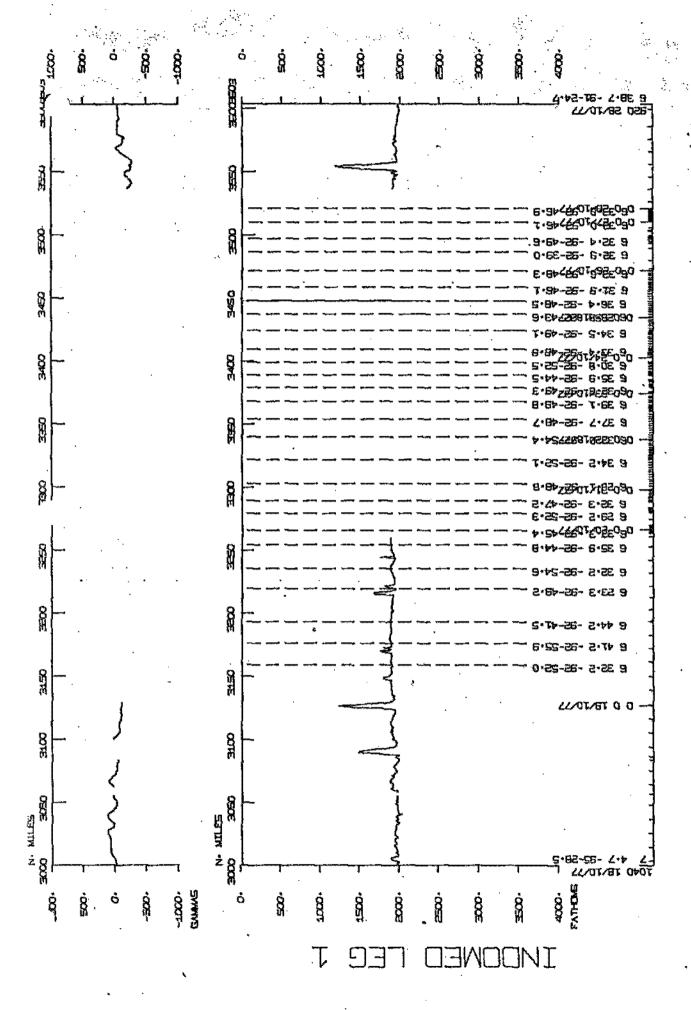


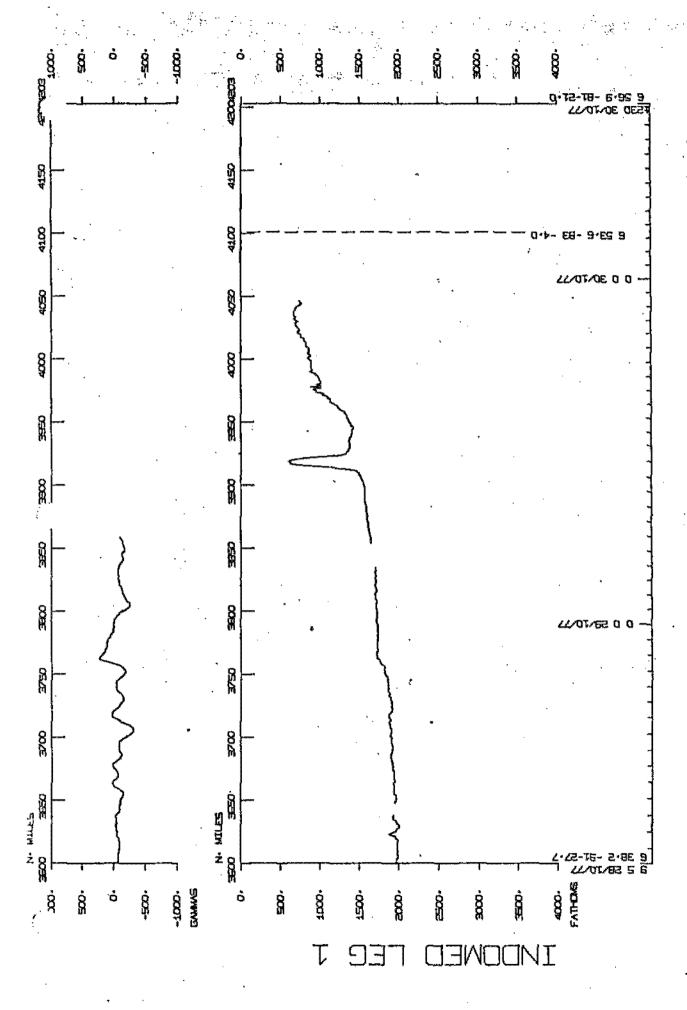


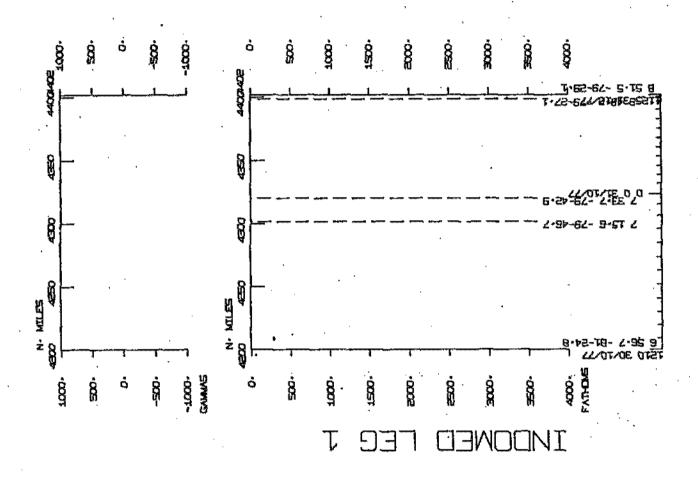












S.I.O. SAMPLE INDEX

(Issued January 24, 1978)

INDOMED EXPEDITION

LEG 1

San Diego, Calif. (24 September, 1977) to Balboa, Canal Zone (31 October 1977) R/V Melville

Chief Scientist - F. Spiess (SIO)

Resident Marine Techs - W. Keith, S. Witherow

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

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 onshore 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.)

NOTE: This document is intended primarily for informal use within the institution and is not to be reproduced or distributed outside Scripps without prior approval of the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

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. 24SEP77 - SAN DIEGO, CALIF

310CT77 - BALBOA, CANAL ZONE

CHIEF SCIENTIST - SPIESS. F.

MPL

SHIP - R/V MELVILLE (SID)

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			
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DIG	I	6	•			10					I	16		
GCR	I		43		1						1	44		
GDC	1			7				1	1		I	9		
GRD	1									2	I	2		
JPN	I									1	I	1 -		
LUO	I									2	I	2 9		
MPL	I									9	I	9 '		
MTG	I									1	I	1		
SIO	I						•			1	I	1		
SIX	I									3	Į	3		
UWA	I									5	1	5		
TOTAL	 [6	4.3	- -	1	10	19	1	1	 25	 1	113		

SAMPLE 'TYPE' CODES USED ABOVE

CM = CURRENT MEASUREMENT

CD = CORE (SEE ALSO TYPE DH##)

DP = DEPTH

DR = DREDGE

DT = DEEP TOWED INSTRUMENT PACKAGE (MPL PROJECT)

HC = HYDROGRAPHIC CAST

L8 = LOG BOOKS

MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)

PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE 'DISP' CODES USED ABOVE

DCP = DATA COLLECTION, PROCESSING GROUP -- F. WILKES (EXT. 3668)

DTG = DEEP TOW GROUP (MAR. PHYSICAL LAB) -- J. MUDIE (EXT.2850)

GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)

GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)

GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)

JPN = JAPAN

LOG = LAMONT-DOMERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY

MPL = MARINE PHYSICAL LAB. (EXT 2305)

MTG = MARINE TECHNOLOGY GROUP (EXT 4194)

SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JULLA. CAL. 92093

SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - (CONTACT DORCAS UTTER EXT. 2356)

UWA = UNIV. OF WASHINGTON, SEATTLE

*** PORTS ***

800 24 977 1447 311077 LGPT B SAN DIEGO, CALIF LGPT E BALBOA, CANAL ZONE 32 425N 117 143W F INMDO1MV 8 57 N 79 34 W F INMDO1MV

PERSONNEL

PECS	SPIESS, F.	MPL	VMI OGMNI .
PERT	KEITH, W.	GRD	1 NNDO 1M V
PERT	WITHEROW, S.	GRD	VMIOGMNI
PECT	DTT, J.	MTG	I NMDO1M V
PE	BENDER, M.	SIX	INMDOIMV
PE	BENSON, M.	MPL	V MI OCHNI
PE	BOWSER, C.	UWA	VMIODMNI
PE	EMERSON, S.	AWU	INMDOIMV
P&	FORD, J.	810	1 MMDO 1 MV
PES	FRUELICH, F.	, LDO	1 NMDO 1M V
PES	HARRIS, T.	SIX	· INMDOIMV
PEXN	IWASHITA, A.	JPN .	INMDOIMY
PES	JAHNKE, R.	UWA	INMOOIMV
PES	KADKO, D.	r DO	V MI OGMA 1
PES	KARAS, M.	MPL	INMOOIMV
PE	KLINKHAMMER, G.	SIX	INMDOIMV
PE	LONSDALE, P.	MPL .	I NMOO 1 MV
PE	LOWENSTEIN, C.	MPL	. INMDO1MV
PE	PAVLICEK, V.	MPL	INMDOIMV
PE	POULE, X.	MPL	V ML OGMN I
PE	ROGERS, J.	MPL	INMOOLMV
PE	ROWE, A.	DCP	V ML OGMN I
PES	SETLOCK, G.	AWU	INMDO 1MV
PES	WELKIE, C.	UWA	I NMDO 1MV
PĘS	ZAMPOL, J.	MPL	INMOOTHV

*** NOTE *** TIME ZONES AND MINUTES OF LATITUDE AND LONGITUDE ARE LISTED IN TENTHS (E.G. 10.6 IS LISTED AS 106)

*** NOTE *** AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED.

UNDERWAY DATA CURATOR - STUART SMITH (EXT. 2752) *** LOG BOOKS *** LBUW B UNDERWAY LOG LBUW E UNDERWAY LOG GDC 32 376N 117 317H S INMDOIMY 810 24 977 2230 291077 . GDC 6 506N 83 577W S 1NMD01MV *** FATHOGRAMS *** DPR3 B EDR 3.5KHZ R-01 GDC 32 232N 117 259W 5 INMD01MV 2340 24 977 2137 11077 DPR3 E EDR 3.5KHZ R-01 GDC 8 480N 104 163W S INMOOIMV. DPR3 B EDR 3.5KHZ R-02 GDC 8 453N 104 98W S 1NMD01MV 2315 11077 GDC 8 442N 104 329W S INMOOINV 1230 21077 DPR3 E EDR 3.5KHZ R-02 8 475N 103 494W 'S INMOOINV OPR3 B EDR 3.5KHZ R-03 GDC 240 161077 98 250W S INMDOLMY 98 190W S INMOOLMY 7 372N 830 171077 DPR3 E EDR 3.5KHZ R-03 GDC DPR3 8 EDR'3.5KHZ R-04 GDC 7 358N 900 171077 6 331N 92 50lw S INMDOLMV 1300 191077 DPR3 E EDR 3.5KHZ R-04 GDC DPR3 B EDR 3.5KHZ R-05 6 349N 92 321W S INMDO1MV GDC 301 281077 GDC 6 390N 91 25W S INMDO1MV DPR3 E EOR 3.5KHZ R-05 1100 281077 DPR3 B EDR 3.5XHZ R-06 GDC 6 388N 90 359W \$ INMDOINY 1300 281077 87 338W 5 INMDO1MV DPR3 E EDR 3.5KHZ R-06 GDC 6 442N . 340 291077 GDC 6 447N 87 284H 5 INMDO 1MV DPR3 B EDR 3.5KHI R-07 408 291077 DPR3 E EDR 3.5KHZ R-07 GDC 6 506N 83 577W S INMDO1MV 2230 291077 *** MAGNETOMETER *** R-01 GDC 6 349N 92 322W S INMOO3MV MGR B MAGNETICS 300 261077 MGR E MAGNETICS R-01 GDC 6 466N 87 61W S 1NMDO1MV . 603 291077 32 498 400 3 JAMES GARAGE 6.3 *** CORES *** 1747 71077 201 81077 GCR 8 477N 103 599W S INMOO1MV COBX INMD13 IM178C13 GCR 8 479N 103 597W S INMDO IMV IM178C15 COBX INMDIS IM17BC20 8 479N 103 600W S 1NMD01MV GCR INMD20 933 151077 COBX 74N. 96 108W S INMOOIMV 454 181077 ESUMNI IM18BC23 GCR 7 COBX 6 33.1N 92 457W S INMDO 1MV 2222 191077 IM19BC25 GCR COBX INMD25 COBX 6 360N 93 54W S INMOOLMV INMD26 IM198C26 GCR 136 191077

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2345 141077	CMAB E OICH .	DTG 8 476N 104 127H S INMDOIMY
26 21077	CMAB B OZCM	DTG 8 441N 104 120W S 1NMD01MV
1415 141077	CMAB E OZCM	DTG 8 478N 104 9W S INMODIMY
2352 31077	CMAB B O3CM	DTG 8 483N 104 13W S INMODIMY
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1344 191077	CMAB B 05CM	OTG 6 319N 92 486W S INMDO 1MV
1640 261077	CMAB E OSCM	DTG 6 319N 92 484H S [NMD01MV
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TIME NT	DATE TIME	TZ SAMP LOC CODE	SAMPLE	IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
	241077 251077		SITE H SITE H			6 342N 6 332N		VMIOCHNI S
****	£21011	,			019	0 3354	JE WOLK	3 IMMUOTHA
*****	YOROGRAPHIC	CAST***	·		•			
	24 977	HCNÍ	TSONI	STA04	OCP 3	2 378N	117 315W	S [NMDO]MV
2327	11077	HCN I	TSONI	STAO7 CI	- ·			S INMDOIMY
536	21077	HCNI	TSONI	STA07CZA	DCP	8 459N	104 103W	
436	21077	HCN I	TSONI	STA07C28				S INMODIMY
245	41077	HCNI	TSONI	STAO7 C3	DCP	8 479N		S INMDOLMY
1108	71077	HCN I	TSONI	STAO7 C4	DCP			S INMDOJMV
550	81077	HCNI	TSONI	STAO7 CS	OCP	8 477N		S INMOOIMV
1655	101077 '	HCN I	TS 1	STAO7 C6	DCP			S INMOULMY
4	141077	HCNI	TSONI	STAO7 C7	OCP			S INMDOLMV
	151077	HCN I	Ţ	Q STAO7 C8	DCP	. ,		2 INMDOIMA
	151077	HCNI	TS I	STAO7 C9	DCP	8 479N		S INHDOIMV
	171077	HCNI	TS I	STA07C10	DCP	7 74N		S INMDOIMV
	191077	HCNI	TSONI	STA09C11	DCP	6 322N	92 476W	
1311	201077	HCN I	TS .I	STA09C12	DCP	6 281N		S INMOOINV
	231077	HCNI	TSONI	STA09C13	DCP"	6 344N	92 508W	
	241077	HCM I	TSONI	STA09C14	OCP	6 337N	***	S INMDOLMY
	261077	HCNI	TSONI	STA09C15	DCP	6 34 LN		S INMOOLMY
845	261077	HCNI	•	Q STA09C16	DCP	6 328N		S INMODIMY
101	281077	HCNI	TS I	STA09C17	DCP	6 340N	92 472W	S INMDOLMV

END SAMPLE INDEX

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INMDOLMV