

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

(Issued November 1983)

ARGON 3 EXPEDITION

LEG 1

San Diego, Calif. (5 June 1982)
to
San Diego, Calif. (11 June 1982)
R/V Melville

Chief Scientist - H. Craig (SIO)

Resident Marine Tech - R. Comer

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.# - 199

* Only navigation and Sample Index included in this report.

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

Contents:

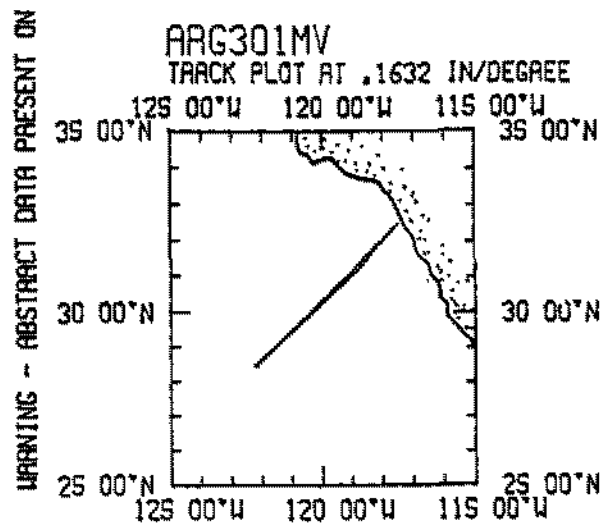
- Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.
- Track Charts - annotated with dates (day/month) and hour ticks. The scale is .312 in/degree longitude.
- Profiles - depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major 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)

* Only navigation and Sample Index included in this report.



ARGON 3 EXPEDITION
LEG 1

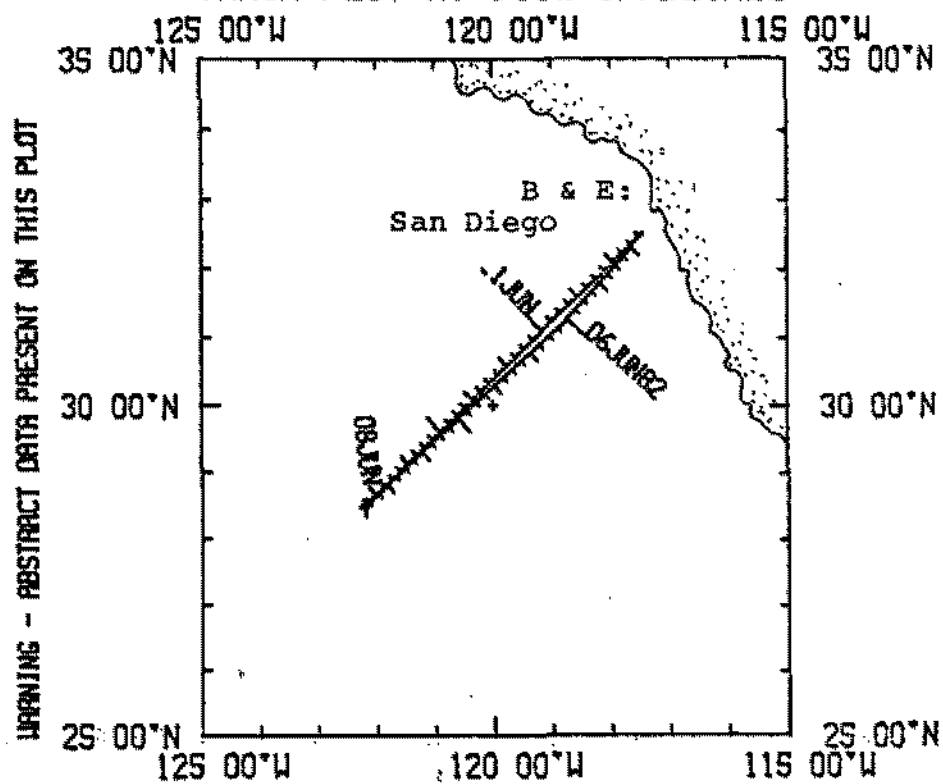
CHIEF SCIENTIST- H. Craig (SIO)
Ports: San Diego - San Diego, Calif.
Dates: 5 - 11 June 1982
Ship: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 742 miles
- 2) Bathymetry - none collected
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

ARG301MV

TRACK PLOT AT 312 IN/DEGREE



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

ARGON 3 EXPEDITION

Leg 1

San Diego, Calif. (5 June 1982)
to
San Diego, Calif. (11 June 1982)

R/V Melville

Chief Scientist - H. Craig (SIO)

Resident Marine Tech - R. Comer

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.)

GENERATED 18NOV83

(ARG301MV) ***

05JUN82 - SAN DIEGO, CALIF.
TO
11JUN82 - SAN DIEGO, CALIF.

CHIEF SCIENTIST - CRAIG, H. GRD

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
	GC	HC	PE	

GRD	1	10	2	1	12
MTG	1		2	1	2
PCF	1		1	1	1
RFW	1		5	1	5
SIO	1		5	1	5
SIX	1		1	1	1

TOTAL	1	10	5	11	1	26
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SAMPLE 'TYPE' CODES USED ABOVE

GC = GEICHEMICAL SAMPLING
 HC = HYDROGRAPHIC CAST
 PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE 'DISP' CODES USED ABOVE

GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
 MTG = MARINE TECHNOLOGY GROUP (EXT. 4194)
 PCF = PHYSICAL AND CHEMICAL DATA FACILITY (EXT. 2240)
 RFW = RAY WEISS (GRD, EXT. 2598)
 SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT U. UTTER (EXT. 3675)

18NOV83 PAGE 1
 GMT D M /Y LOC LOC CODE SAMPLE IDENT. CODE LAT. LONG. LEG-SHIP
 TIME DATE TIME TZ SAMP DISP CRUISE

ARGON3 LEG 1 SAMPLE INDEX

ARG301MV

*** PORTS ***

1300 5/ 6/82 LGPT B SAN DIEGO, CALIF. 32 43. N 117 11. W F ARG301MV
 1300 11/ 6/82 LGPT E SAN DIEGO, CALIF. 32 43. N 117 11. W F ARG301MV

PERSONNEL

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

1 CRAIG, H.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
2 DMEK, R.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
3 ENRY, A.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
4 OSTELLO, J.	MARINE TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
5 IXON, F.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)	
6 KIM, K.R.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
7 JOE, H.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
8 WARNER, M.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
9 BULLISTER, J.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
10 ROSENZWEIG, P.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
11 STIL	LAB ASSISTANT	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.
 (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.

-18NOV83 PAGE 2

GMT D /M /Y	LOC LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME T2	SAMP		DISP			CRUISE

HYDROGRAPHIC CAST

0732	7/ 6/82	HCNI X	HC03	088TL	700M	RFW 28	28.7N	122 12.4W	S ARG301MV
1107	7/ 6/82	HCNI	HC04	088TL	400M	RFW 28	30.4N	122 12.3W	S ARG301MV
0222	8/ 6/82	HCNI	HC07	088TL	250M	RFW 28	31.6N	122 10.9W	S ARG301MV
0530	8/ 6/82	HCNI	HC08	088TL	500M	RFW 28	32.8N	122 09.8W	S ARG301MV
0205	9/ 6/82	HCNI	HC11	088TL	800M	RFW 28	29.6N	122 16.4W	S ARG301MV
0545	9/ 6/82	HCNI	HC12	048TL	2800M	RFW 28	29.7N	122 15.1W	S ARG301MV

GEOCHEMICAL STATION - LARGE VOLUME

1724	6/ 6/82	GCLV	HC01	048TL	500M	GRD 29	08.5N	121 24.6W	S ARG301MV
2125	6/ 6/82	GCLV	HC02	048TL	500M	GRD 28	38.4N	122 03.5W	S ARG301MV
1020	7/ 6/82	GCLV	HC05	048TL	1700M	GRD 28	30.2N	122 12.5W	S ARG301MV
1530	07/06/82	GCLV	HC06	048TL	1700M	GRD 28	28.7N	122 12.9W	S ARG301MV
1110	8/ 6/82	GCLV	HC09	048TL	2800M	GRD 28	29.5N	122 08.0W	S ARG301MV
1540	8/ 6/82	GCLV	HC10	048TL	2877M	GRD 28	28.4N	122 12.6W	S ARG301MV
0700	9/ 6/82	GCLV	HC13	048TL	1000M	GRD 28	30.1N	122 14.6W	S ARG301MV
1220	9/ 6/82	GCLV	HC14	038TL	1000M	GRD 28	27.6N	122 12.2W	S ARG301MV
1508	9/ 6/82	GCLV	HC15	028TL	2800M	GRD 28	29.3N	122 13.4W	S ARG301MV
1753	9/ 6/82	GCLV	HC16	018TL	2800M	GRD 28	28.2N	122 12.8W	S ARG301MV

9900

END SAMPLE INDEX

ARG301MV