INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued September 1983)

BONANZA EXPEDITION

LEG 2

San Diego, Calif. (7 June 1982)
to
San Diego, Calif. (13 June 1982)

R/V T. Washington

Chief Scientist - P. Lonsdale

Resident Marine Tech - none on board this leg

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

Data Collection Funded by ONR
Grant Number ONR-0440
Data Processing funded by SIA and ONR

GDC Cruise I.D.# - 200

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&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)

S.I.O. Sea Beam Data

As of June 1982 the institution's procedures for handling Sea Beam data are still evolving. The following forms are available, subject to approval of the cruise leg chief scientist.

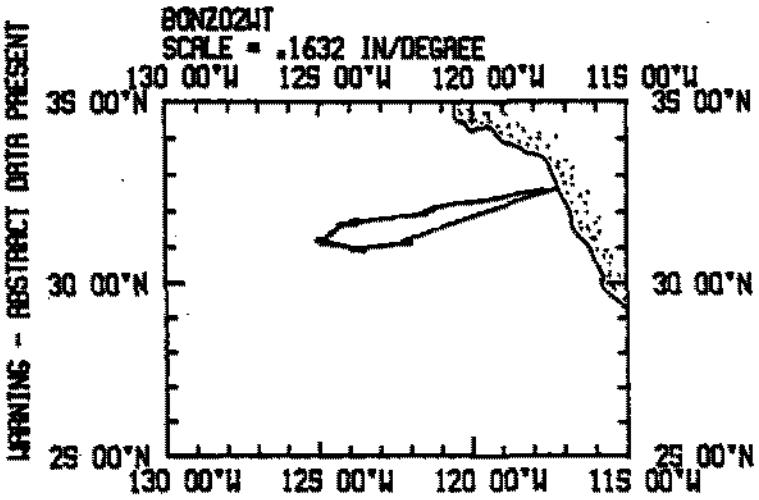
1) Archive copy of contour swath books generated in real time on board ship available for inspection at the data center.

2) Microfilm (35mm flowfilm) containing swath books plus, for some cruises, the UGR monitor record and navigation listings.

3) Sea Beam merged tapes - Sea Beam data merged with navigation (navigation is edited to the extent that poor fixes are removed after inspection of drift vectors between fix pairs. No editing is done on the basis of adjusting to overlapping Sea Beam swaths.)

4) Custom generated plots of Sea Beam swaths on Mercator projection in four colors at variable plot scales and contour intervals. There are provisions to adjust positions of individual track lines and to edit out beams (bad data or overlapping data on inside of turns).

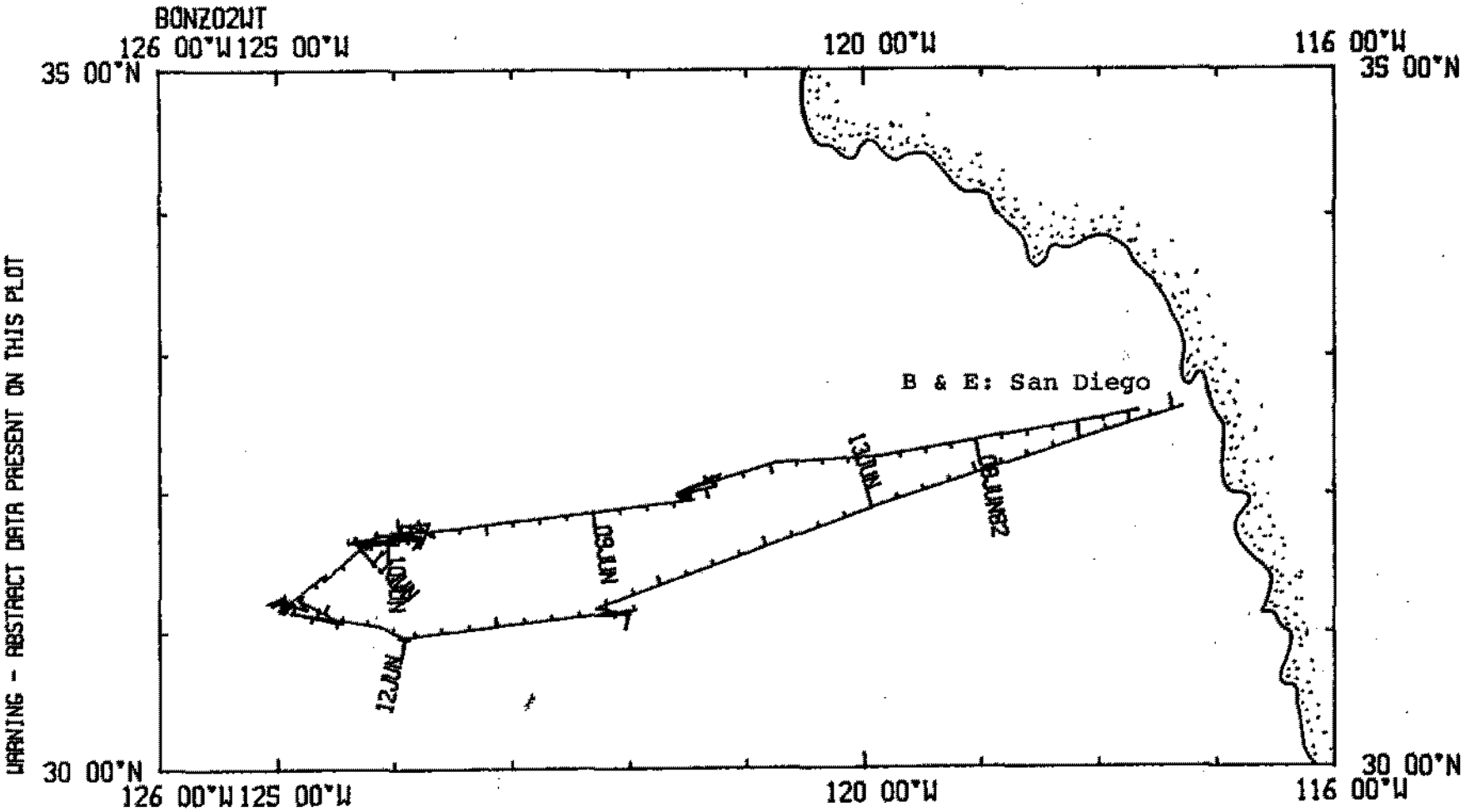
S. M. Smith June 1982

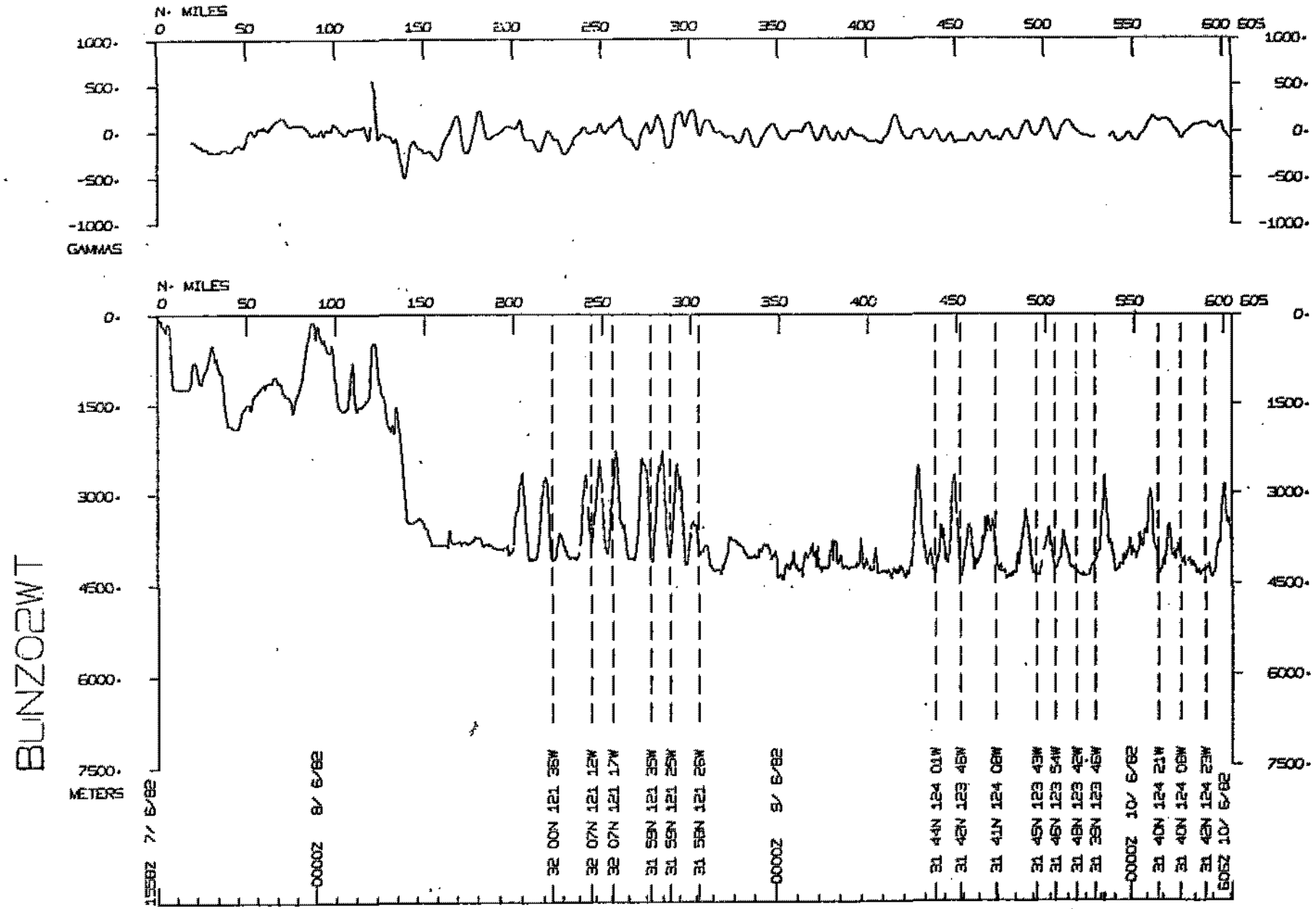


BONANZA EXPEDITION
LEG 2

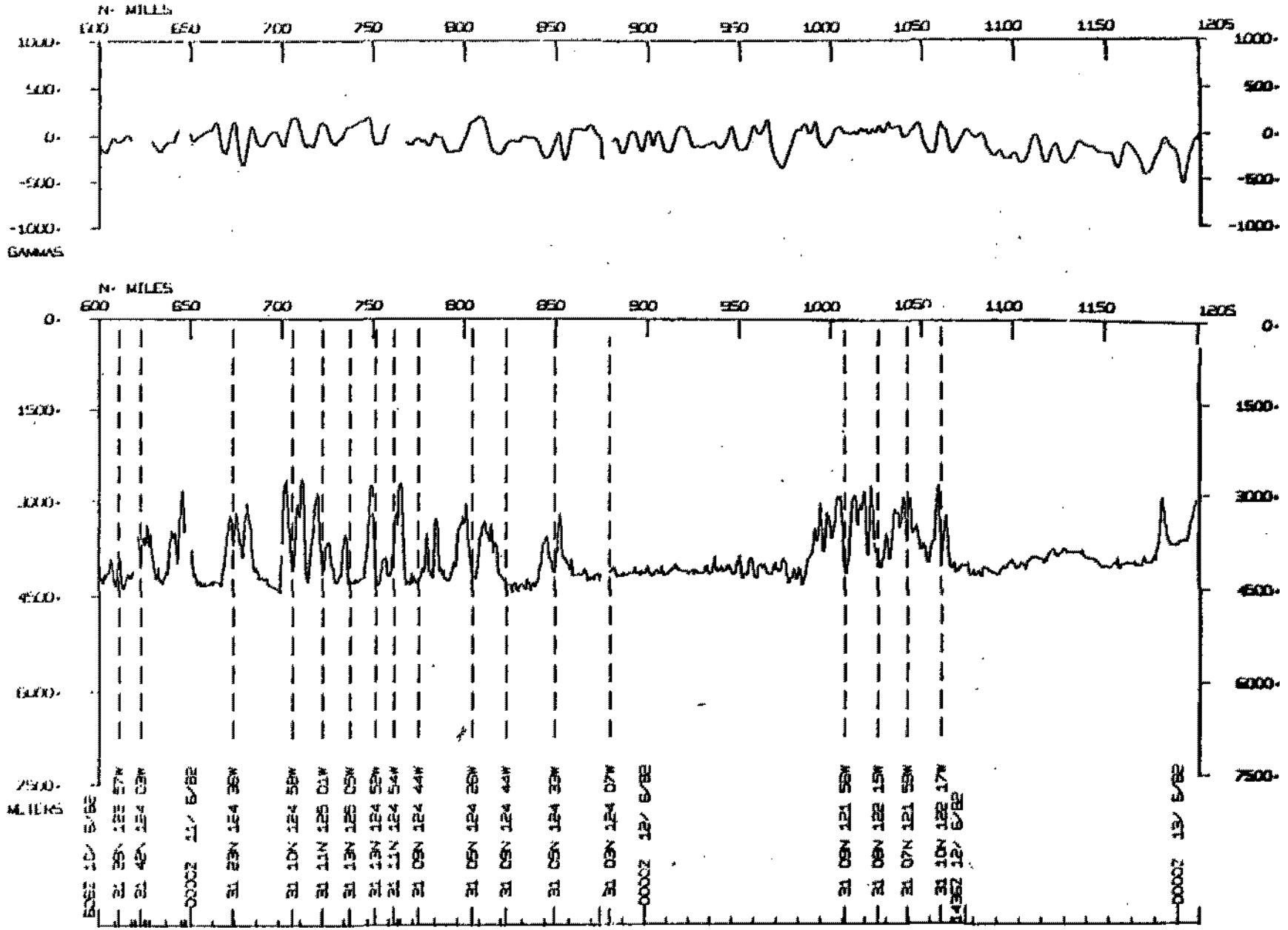
CHIEF SCIENTIST- P. Lonsdale
Ports: San Diego - San Diego, Calif.
Dates: 7 - 13 June 1982
Ship: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
1) Cruise - 1341 miles
2) Bathymetry - 1331 miles
3) Magnetics - 1181 miles
4) Seismic Reflection - none collected
5) Gravity - none collected
6) Seabeam - 1330 miles

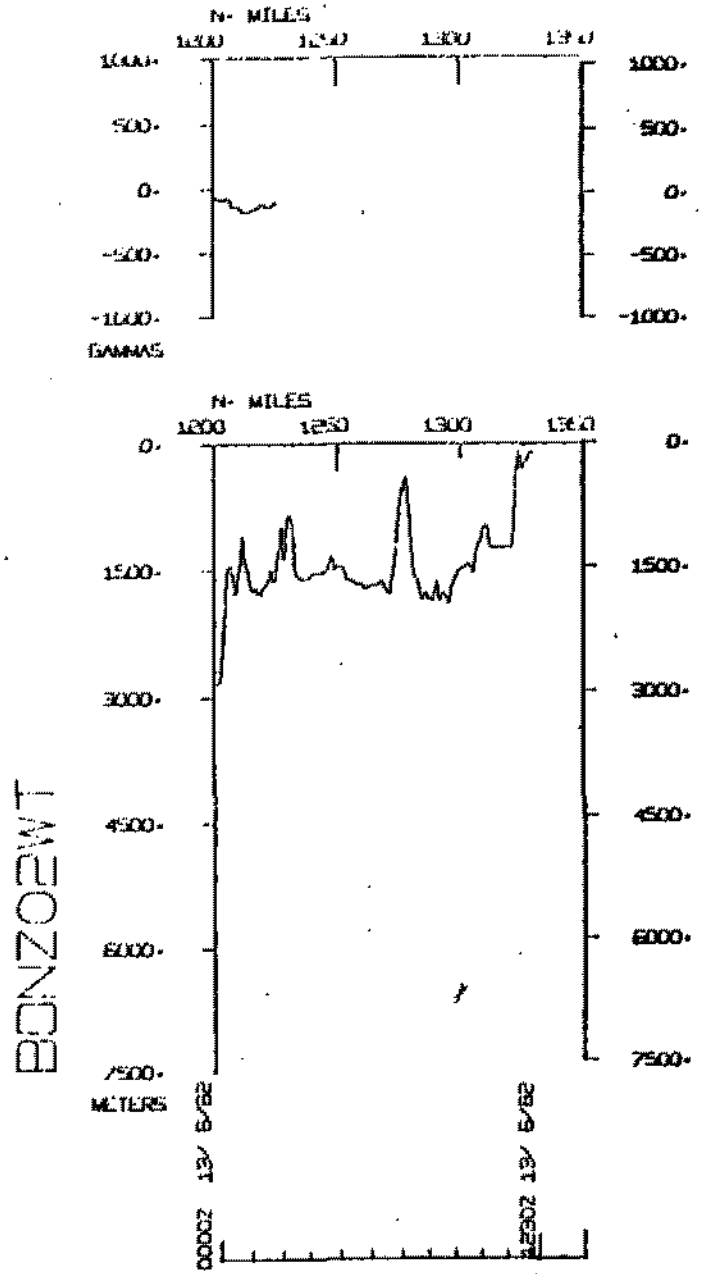

BONZ02WT
126 00°W 125 00°W
120 00°W
116 00°W
35 00°N
30 00°N
B & E: San Diego
WARNING - ABSTRACT DATA PRESENT ON THIS PLOT


N. MILES
0 50 100 150 200 250 300 350 400 450 500 550 600 605
1000
500
0
-500
-1000
GAMMAS
N. MILES
0 50 100 150 200 250 300 350 400 450 500 550 600 605
0
1500
3000
4500
6000
7500
METERS
BUNZO2WT
15582 7/ 6/82
00002 8/ 6/82
32 00N 121 38W
32 07N 121 12W
32 07N 121 17W
31 59N 121 35W
31 59N 121 25W
31 58N 121 26W
00002 8/ 6/82
31 44N 124 01W
31 42N 123 45W
31 41N 124 08W
31 45N 123 43W
31 46N 123 54W
31 48N 123 42W
31 38N 123 46W
00002 10/ 6/82
31 40N 124 21W
31 40N 124 08W
31 42N 124 23W
6052 10/ 6/82

SEA BEAM


N. MILES
600
650
700
750
800
850
900
950
1000
1050
1100
1150
1205
1000
500
0
-500
-1000
GAMMAS
N. MILES
0
1500
3000
4500
6000
7500
METERS

EOCENE


N- MILES
1200
1250
1300
1350
1000
500
0
-500
-1000
GAMMAS
N- MILES
1200
1250
1300
1350
0
1500
3000
4500
6000
7500
METERS
13/ 6/62
00002
13/ 6/62
12302
BENZOATE

S.I.O. Sample Index

(Issued September 1983)

BONANZA EXPEDITION

Leg 2

San Diego, Calif. (7 June 1982)
to
San Diego, Calif. (13 June 1982)

R/V T. Washington

Chief Scientist - P. Lonsdale

Resident Marine Tech - none on this leg

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.)

GDC Cruise I.D.# -200

S.I.O. SAMPLE INDEX GENERATED 15JUL82

*** BONANZA LEG 2 SAMPLE INDEX (BON702WT) ***

07JUN82 - SAN DIEGO, CAL.

TO

13JUN82 - SAN DIEGO, CAL.

CHIEF SCIENTIST - LONSDALE,P. MPL

SHIP. - R/V THOMAS WASHINGTON (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
	DP	DR	LB	MB	MG	PE	
DSD						1	1
GCR		5					5
GDC	2		1	9	1		13
MPL						2	2
MTG						3	3
SIO						5	5
SIX						3	3
TOTAL	2	5	1	9	1	14	32

SAMPLE 'TYPE' CODES USED ABOVE

DP = DEPTH
DR = DREDGE
LB = LOG BOOKS
MB = MULTI-BEAM (SEABEAM) ECHOSOUNDER
MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE 'DISP' CODES USED ABOVE

DSD = DEEP SEA DRILLING PROJECT -- P. LONG (EXT. 3506)
GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
MPL = MARINE PHYSICAL LAB. (EXT 2305)
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)

GMT D /M /Y LOC LOC TIME DATE TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT. LONG.	LEG-SHIP CRUISE
		BONANZA LEG 2 SAMPLE INDEX			BONZ02WT
*** PORTS ***					
1515 07/06/82		LGPT, B SAN DIEGO, CAL.		32 43. N 117 11. W F	BONZ02WT
1300 15/06/82		LGPT E SAN DIEGO, CAL.		32 43. N 117 11. W F	BONZ02WT

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 LONSDALE,P.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 CHARTERS,J.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 SMITH,S.	SEABEAM OPERATOR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 DIETZ,P.	SEABEAM TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 HAYLAND,J.	GEOLOGIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 EVANS,C.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 [illegible],J.	FRENCH STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
8 CLOWER,S.	GEOLOGIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
9 SMITH,D.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 [illegible],G.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
11 KNIGHT,E.	STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
12 [illegible],R.	SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
13 SCHULTE,[illegible],P.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 GRIFFITH,J.	ILLUSTRATOR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093

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 THIS LEG. (HOOKED MOTTOM 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 TIME DATE	LOC TZ	LOC CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
**** UNDERWAY DATA CURATOR - STUART M. SMITH EXT. 2752 ***							
*** LOG BOOKS ***							
1515 7/ 6/82		LBUW B	UNDERWAY DATA LOG	GDC	32 37.7N	117 16.8W	S BONZ02WT
1300 13/ 6/82		LBUW E	UNDERWAY DATA LOG	GDC	32 38.8N	117 13.3W	S BONZ02WT
*** BATHOGRAMS ***							
1721 7/ 6/82		DPR3 B	EPC 3.5KHZ R-01	GDC	32 34.9N	117 35.7W	S BONZ02WT
0907 10/ 6/82		DPR3 E	EPC 3.5KHZ R-01	GDC	31 40.1N	124 04.6W	S BONZ02WT
0926 10/ 6/82		DPR3 B	EPC 3.5KHZ R-02	GDC	31 40.1N	124 04.6W	S BONZ02WT
1500 11/ 6/82		DPR3 E	EPC 3.5KHZ R-02	GDC	31 14.3N	124 48.2W	S BONZ02WT
*** MAGNETOMETER ***							
1749 7/ 6/82		MGRA B	MAGNETICS R-01	GDC	32 34.5N	117 41.0W	S BONZ02WT
0306 13/ 6/82		MGRA E	MAGNETICS R-01	GDC	32 04.0N	119 12.2W	S BONZ02WT
SEABEAM MONITOR RECORD - VERTICAL BEAM							
1648 7/ 6/82		MBMR B	SB UGK MONITOR R-01	GDC	32 35.7N	117 27.9W	S BONZ02WT
1553 11/ 6/82		MBMR E	SB UGK MONITOR R-01	GDC	31 09.6N	124 36.4W	S BONZ02WT
1607 11/ 6/82		MBMR B	SB UGK MONITOR R-02	GDC	31 08.3N	124 33.4W	S BONZ02WT
1250 13/ 6/82		MBMR E	SB UGK MONITOR R-02	GDC	32 37.3N	117 14.4W	S BONZ02WT
SEABEAM MAG TAPE - RAW LOGGED DAT							
1558 7/ 6/82		MBMT B	SB RAW MAG TAPE 1	GDC	32 34.5N	117 17.4W	S BONZ02WT
1650 11/ 6/82		MBMT E	SB RAW MAG TAPE 1	GDC	31 04.1N	124 27.2W	S BONZ02WT
1650 11/ 6/82		MBMT B	SB RAW MAG TAPE 2	GDC	31 04.1N	124 27.2W	S BONZ02WT
1250 13/ 6/82		MBMT E	SB RAW MAG TAPE 2	GDC	32 37.3N	117 14.4W	S BONZ02WT
SEABEAM SWATH BOOK - REALTIME CONTOUR SWATH							
1648 7/ 6/82		MBSH B	SB SWATH BOOK 1	GDC	32 35.7N	117 27.9W	S BONZ02WT
0404 8/ 6/82		MBSH E	SB SWATH BOOK 1	GDC	32 15.9N	119 55.9W	S BONZ02WT
0410 8/ 6/82		MBSH B	SB SWATH BOOK 2	GDC	32 15.8N	119 57.2W	S BONZ02WT
1422 9/ 6/82		MBSH E	SB SWATH BOOK 2	GDC	31 47.6N	123 54.6W	S BONZ02WT

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1422	9/ 6/82			MRSB B	SB SWATH BOOK 3	GDC	31 47.6N	123 54.6W S	B0NZ02WT
1539	11/ 6/82			MRSB E	SB SWATH BOOK 3	GDC	31 11.0N	124 39.5W S	B0NZ02WT
1539	11/ 6/82			MRSB B	SB SWATH BOOK 4	GDC	31 11.0N	124 39.5W S	B0NZ02WT
2327	12/ 6/82			MRSB E	SB SWATH BOOK 4	GDC	31 51.1N	120 03.0W S	B0NZ02WT
2327	12/ 6/82			MRSB B	SB SWATH BOOK 5	GDC	31 51.1N	120 03.0W S	B0NZ02WT
1210	13/ 6/82			MRSB E	SB SWATH BOOK 5	GDC	32 36.5N	117 20.6W S	B0NZ02WT
DREDGE CURATOR WM. RIEDEL (EXT. 3360)									
1850	9/ 6/82			DRRO B	DREDGE B0NZ-1D 3270M	GCR	31 43.0N	123 49.1W S	B0NZ02WT
2125	9/ 6/82			DRRO E	DREDGE B0NZ-1D 2705M	GCR	31 43.2N	123 49.3W S	B0NZ02WT
0938	10/ 6/82			DRRO B	DREDGE B0NZ-2D 3760M	GCR	31 40.1N	124 04.5W S	B0NZ02WT
1124	10/ 6/82			DRRO E	DREDGE B0NZ-2D 3857M	GCR	31 40.0N	124 04.6W S	B0NZ02WT
1516	10/ 6/82			DRRO B	DREDGE B0NZ-3D 3658M	GCR	31 40.8N	124 03.2W S	B0NZ02WT
1642	10/ 6/82			DRRO E	DREDGE B0NZ-3D 3400M	GCR	31 41.2N	124 02.8W S	B0NZ02WT
2123	10/ 6/82			DRRO B	DREDGE B0NZ-4D 3339M	GCR	31 38.3N	124 15.3W S	B0NZ02WT
2243	10/ 6/82			DRRO E	DREDGE B0NZ-4D 2824M	GCR	31 39.0N	124 15.2W S	B0NZ02WT
1122	11/ 6/82			DRRO B	DREDGE B0NZ-5D 3200 M	GCR	31 11.3N	124 54.6W S	B0NZ02WT
1316	11/ 6/82			DRRO E	DREDGE B0NZ-5D 2960 M	GCR	31 12.8N	124 54.0W S	B0NZ02WT
9900					END SAMPLE INDEX				B0NZ02WT