

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

(Issued November 1983)

OASIS EXPEDITION

LEG 2

Mazatlan, Mexico (2 May 1982)
to
San Diego, Calif. (19 May 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:

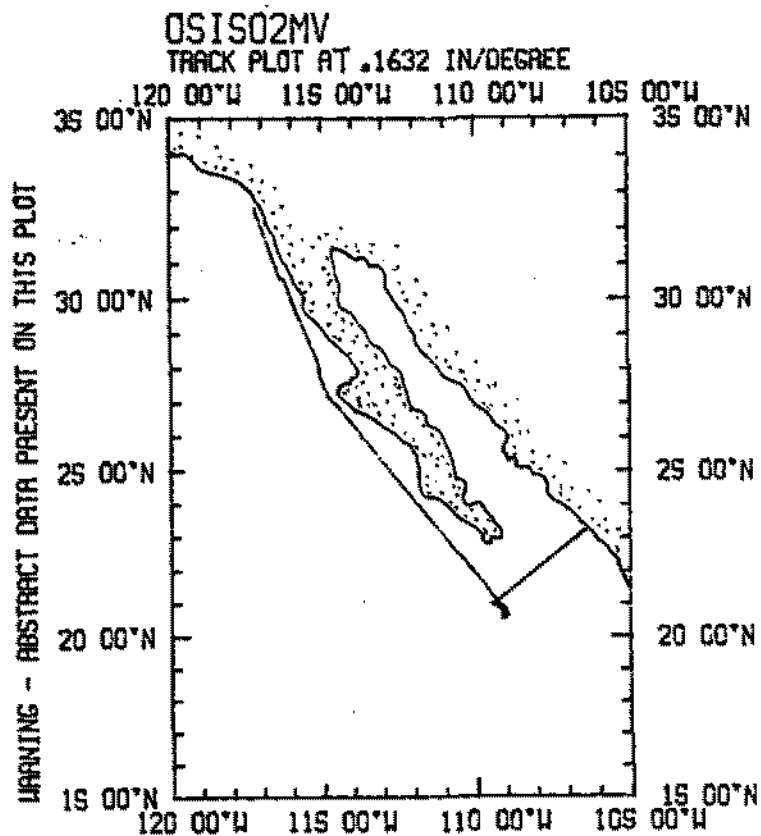
- Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.
- Track Charts - annotated with dates (day/month) and hour ticks. The scale is .312 in/degree longitude.
- Profiles - depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major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

* Only navigation and Sample Index included in this report.



OASIS EXPEDITION
LEG 2

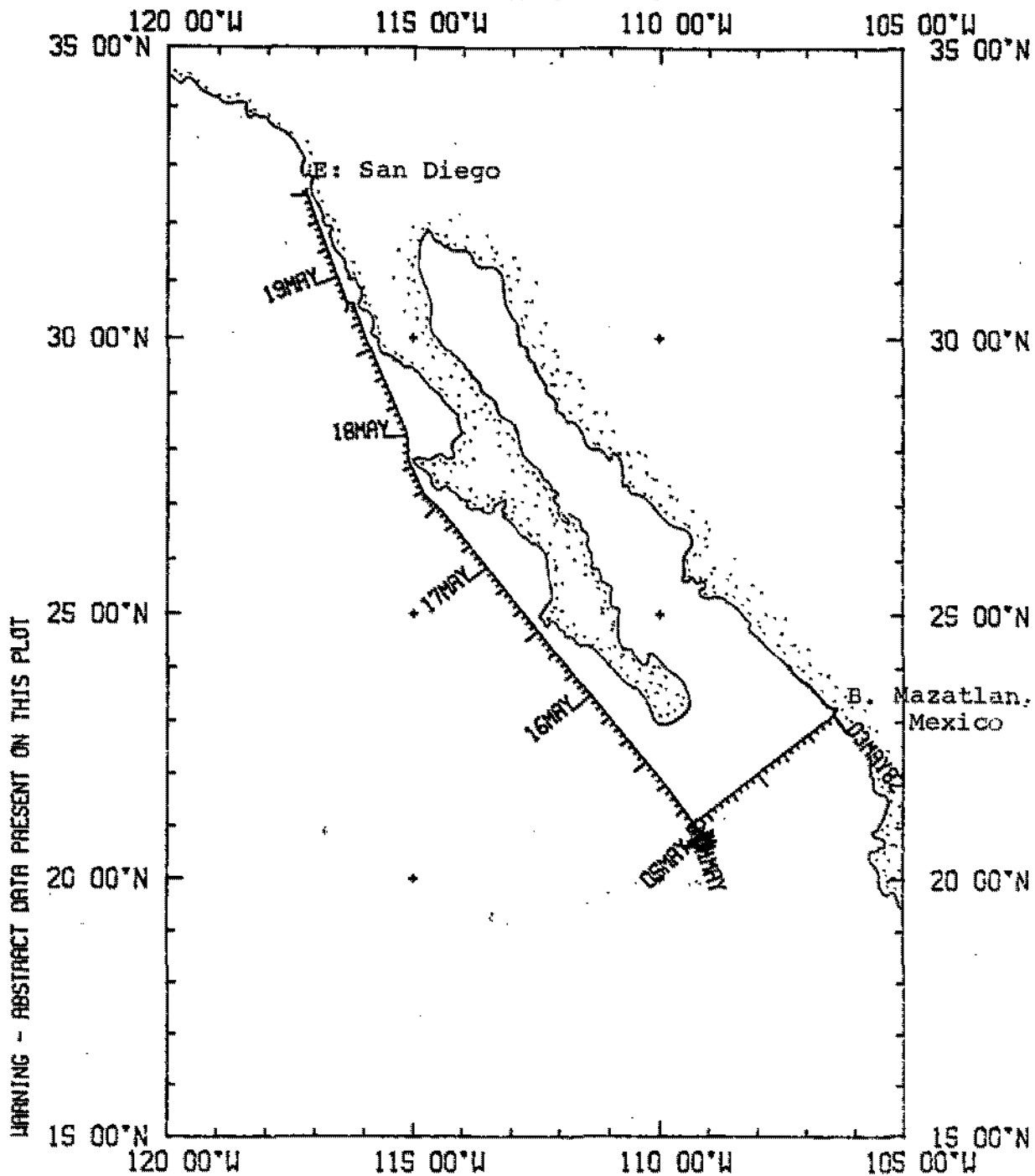
CHIEF SCIENTIST- R. Hessler (SIO)
 Ports: Mazatlan, Mexico - San Diego, Calif.
 Dates: 2 - 19 May 1982
 Ship: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 1706 miles
- 2) Bathymetry - none collected
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

OSIS02MV

TRACK PLOT AT .312 IN/DEGREE



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

OASIS EXPEDITION

Leg 2

Mazatlan, Mexico (2 May 1982)
to
San Diego, Calif. (19 May 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.T.O. SAMPLE INDEX

GENERATED 18NOV83

*** MANOP LEG 6 SAMPLE INDEX

(MANOP6MV) ***

	60E	120E	180	120W	60W	0W	
+-----+-----+-----+-----+-----+-----+-----+							
'X' = SHIP'S TRACK BY 5 DEGREE SQUARE							
85N							85N
80N					0	0000	80N
75N		0		0	00000	0000000000	75N
70N		00000000000		0000	0 00 0	00000000	70N
65N	0000	0000000000000000000000000000		0000000000000000	0	0000 0	65N
60N	00000000000000000000000000000000			000000000000	00	00	60N
55N	0	000000000000000000000000	0	0	00000000	000	0 55N
50N	0000000000000000000000000000	0		0000000000	00 00		00 50N
45N	0000000000 00000000000000000000			000000000000	0		45N
40N	0 00 00	00000000000000000000	0	000000000000			40N
35N	0	00000 0000000000000000	0	0000000000			0 35N
30N	000	00000000000000000000	0	00000000			00 30N
25N	0000000000 0000000000000000			0000 0			000 25N
20N	0000000 0000	000 00000	0	0	00		000 20N
15N	00000000 00	0 00 0		00	0		000 15N
10N	000000000	0	0 0	0			000 10N
5N	0000000000		0		00000		000 5N
0N	0000000	00 00			000000		0N
5S	0000000	0 0 0 00			00 00000		5S
10S	000000	0	00		000000000		10S
15S	00000		0 0		0 000000		15S
20S	000000 0		00000		000000		20S
25S	0000 0		0000000		00000		25S
30S	00		00000000		0000		30S
35S	00		00 000	0	0 0000		35S
40S			00	0	000		40S
45S			0		00		45S
50S					0		50S
55S					0		55S
60S							60S
65S							65S
70S	00	00000000000			0		70S
75S	00000000000000000000000000000000			0	0 0000	0000	75S
80S	00000000000000000000000000000000			00000000000000000000000000		00000000	80S
85S	00000000000000000000000000000000			00000000000000000000000000000000		000000000000000000000000	85S
90S	00000000000000000000000000000000			00000000000000000000000000000000		00000000000000000000000000000000	90S
+-----+-----+-----+-----+-----+-----+-----+							
	60E	120E	180	120W	60W	0W	

01JUN82 - SAN DIEGO, CALIF.

TN

04JUN82 - SAN DIEGO, CALIF.

CHIEF SCIENTIST - WEISS, R.

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	4	7	12
LDO			2	2
MTG			2	2
SIG	4	3	1	7
SIO			2	2
SIX			6	6
URI			1	0
UWA	1		2	3
TOTAL	6	7	21	34

SAMPLE 'TYPE' CODES USED ABOVE

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

SAMPLE 'DISP' CODES USED ABOVE

GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
 LDO = LAMONT-DOHERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY
 MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
 SIG = SAMPLE INDEX INFORMATION-CONTACT GDC 2752-GINNY PSAROPULDS
 SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JULLA, CAL. 92093
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT U. UTTER (EXT.3675)
 UWA = UNIV. OF WASHINGTON, SEATTLE

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

MANOP LEG 6 SAMPLE INDEX

MNOPO6MV

*** PORTS ***

1700	1/ 6/82		LGPT B SAN DIEGO, CALIF.		32 43. N	117 11. W	F MNOPO6MV
0200	4/ 6/82		LGPT E SAN DIEGO, CALIF.		32 43. N	117 11. W	F MNOPO6MV

PERSONNEL

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

1 WEISS, R.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 PILLARD, G.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 HEGGIE, D. (URI)	ASST. SCIENTIST	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
4 SANTSCHO, P.	SR. RES. ASSO.	LAMONT-DWHERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY
5 JAHNKE, R.	POST DOC.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 MNASIR, F.	ELECTRONICS TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 KAKN, D. (URI)	MARINE SPECIALIST	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
8 MCCURKLE, D.	GRAD STUDENT	UNIV. OF WASHINGTON, SEATTLE
9 LILLJE, T.	ELECTRONICS TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 KIRSTEN, O.	DEVEL. ENG.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 HENRY, A.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 KRAUSE, A.	DEVEL. TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
13 CHRISTIANSEN, M.	DEVEL. TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 ULLISTER, J.	GRAD STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 ROSENWEIZ, P.	GRAD STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
16 BERELSON, W. (USC)	GRAD STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
17 FULLER, C. (USC)	MARINE TECH	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
18 HESS, J. (URI)	GRAD STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)
19 KALHORN, S.	MARINE TECH	UNIV. OF WASHINGTON, SEATTLE
20 BECHHULTZ, M.	GRAD STUDENT	LAMONT-DWHERTY GEOPHYSICAL OBSERVATORY, COLUMBIA UNIVERSITY
21 BOUCKER, J. (USC)	GRAD STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT. 3675)

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. (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 CORRECTED METERS.

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

GEOCHEMICAL SAMPLE

0447	2/ 6/82		GCXX B	MANOP LANDER	1535M	GRD 33	01.5N	119 05.2W	S	MNOP06MV
1745	3/ 6/82		GCXX E	MANOP LANDER	1535M	GRD 32	57.1N	118 55.7W	S	MNOP06MV
0800	2/ 6/82		GCXX B	HARPOIN	1710M	SIG 32	59.2N	119 07.5W	S	MNOP06MV
1025	2/ 6/82		GCXX E	HARPOIN	1710M	URI 32	59.1N	119 07.9W	S	MNOP06MV
1550	2/ 6/82		GCXX B	HARPOIN	1715M	SIG 33	02.6N	119 03.6W	S	MNOP06MV
1755	2/ 6/82		GCXX E	HARPOIN	1715M	SIG 33	02.7N	119 03.6W	S	MNOP06MV
2138	2/ 6/82		GCXX B	HARPOIN	1715M	UWA 33	04.9N	119 06.4W	S	MNOP06MV
2328	2/ 6/82		GCXX E	HARPOIN	1715M	UWA 33	04.9N	119 06.4W	S	MNOP06MV
0345	3/ 6/82		GCXX B	HARPOIN	1750M	SIG 33	05.3N	119 06.4W	S	MNOP06MV
0551	3/ 6/82		GCXX E	HARPOIN	1750M	SIG 33	05.3N	119 06.4W	S	MNOP06MV
1230	3/ 6/82		GCXX B	HARPOIN	1753M	SIG 33	03.2N	119 07.3W	S	MNOP06MV
1407	3/ 6/82		GCXX E	HARPOIN	1753M	SIG 33	04.1N	119 07.7W	S	MNOP06MV

HYDROGRAPHIC CAST

1725	2/ 6/82		HCNI B	HYDROCAST SURFACE		GRD 33	02.5N	119 03.5W	S	MNOP06MV
1733	2/ 6/82		HCNI E	20M BERYLLIUM		GRD 33	02.5N	119 03.5W	S	MNOP06MV
1745	2/ 6/82		HCNI B	20M BERYLLIUM		GRD 33	02.6N	119 03.6W	S	MNOP06MV
1800	2/ 6/82		HCNI E	20M BERYLLIUM		GRD 33	02.7N	119 03.7W	S	MNOP06MV
1805	2/ 6/82		HCNI B	HYDROCAST SURFACE		GRD 33	02.8N	119 03.7W	S	MNOP06MV
1115	2/ 6/82		HCNI E	20M BERYLLIUM		GRD 32	59.5N	119 08.9W	S	MNOP06MV
1125	2/ 6/82		HCNI B	HYDROCAST SURFACE		GRD 32	59.6N	119 09.1W	S	MNOP06MV
1135	2/ 6/82		HCNI E	20M BERYLLIUM		GRD 32	59.8N	119 09.4W	S	MNOP06MV
2005	2/ 6/82		HCNI B	HC 3M, 7M, 20M, 75M		SIG 33	04.5N	119 05.8W	S	MNOP06MV
2105	2/ 6/82		HCNI E	130M, 200M FREON		SIG 33	04.8N	119 06.2W	S	MNOP06MV
0116	3/ 6/82		HCNI B	HC, 1270M, 1580M, 1720M		SIG 33	04.8N	119 05.8W	S	MNOP06MV
0300	3/ 6/82		HCNI E	1730M FREON		SIG 33	05.0N	119 06.3W	S	MNOP06MV
0715	3/ 6/82		HCNI B	HC 300M, 430M, 580M		SIG 33	05.3N	119 06.7W	S	MNOP06MV
0916	3/ 6/82		HCNI E	750M, 930M, 100M FREON		SIG 33	05.5N	119 07.2W	S	MNOP06MV

9900

END SAMPLE INDEX

MNOP06MV

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