PRELIMINARY REPORT AND INDEX

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NAVIGATION, DEPTH AND MAGNETIC DATA
SOUTHTOW EXPEDITION

LEG 13

R/V T. WASHINGTON

Honolulu, Hawaii (27 Jan. 1973)

To

San Diego, Calif. (21 Feb. 1973)

Chief Scientist, Leg 13 - M. Mullin

Cruise Coordinator - J. Mudie

Computer Tech. - D. V. Stuber

Resident Marine Tech. - R. C. Wilson

Data Processed by - U. Albright, J. Moore, S. Witherow, O. McConnell

Geological Data Center

T. E. Chase - Curator

S. M. Smith - Data Processing Coordinator Scripps Institution of Oceanography La Jolla, California

Contents:

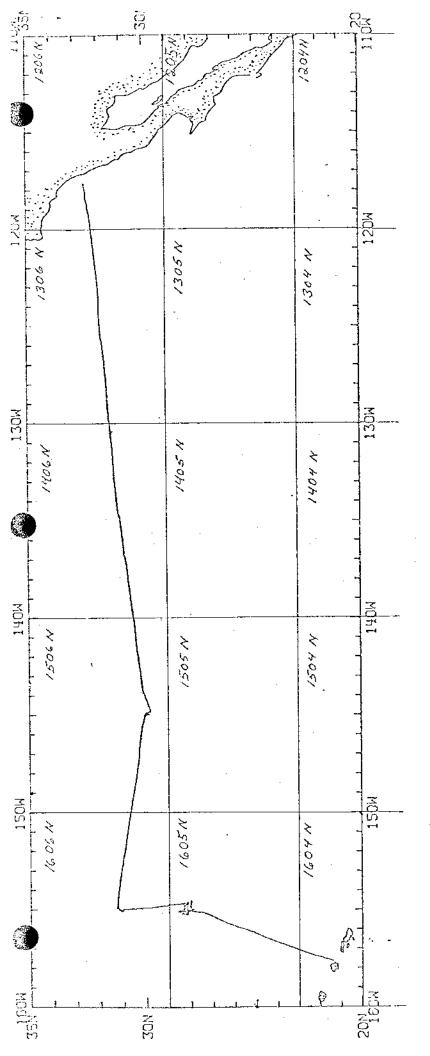
Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).

Track Charts - annotated with dates (day/month) and hour ticks. The scale (.3"/deg.
. long) is the same as the index charts of previous SIO cruises published as Report IMR TR-25.

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 T. E. Chase, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92037 (714-453-2000, Ext. 1534):

- 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 = $1.2^{\rm n}/$ degree; anomaly scale between 15°N and 15°S latitude = 500 gamma/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamma/inch) from values retrieved at approximately 1 mile spacing and regional field removed using the 1965 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 (airgum)
 - c. Magnetometer records
 - d. Underway Data Log

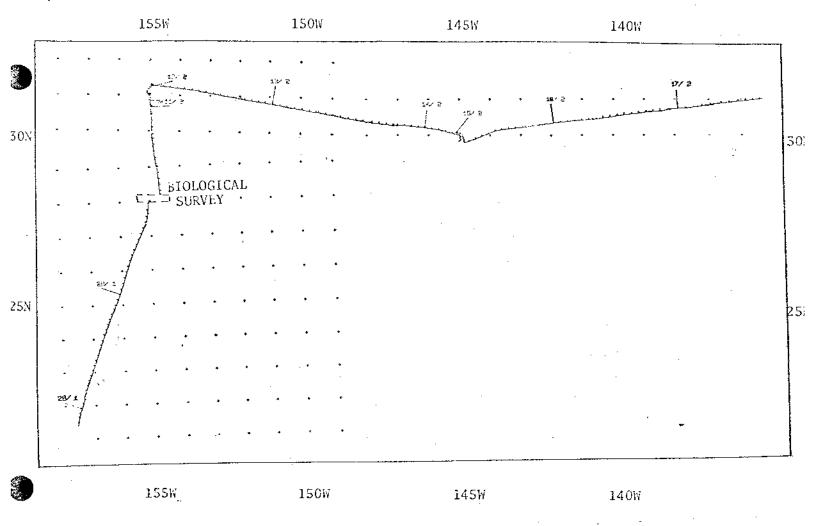


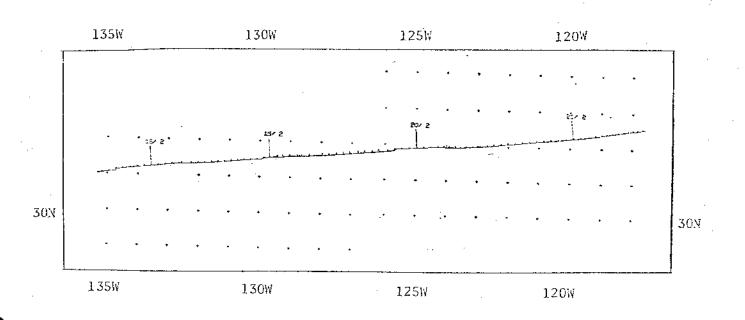
SOUTHTOW EXPEDITION LEG 13
R/V T.WASHINGTON

Honolulu - San Diego 27 Jan, 1973 - 21 Fcb, 1973 Chief Scientist - M.Mullin

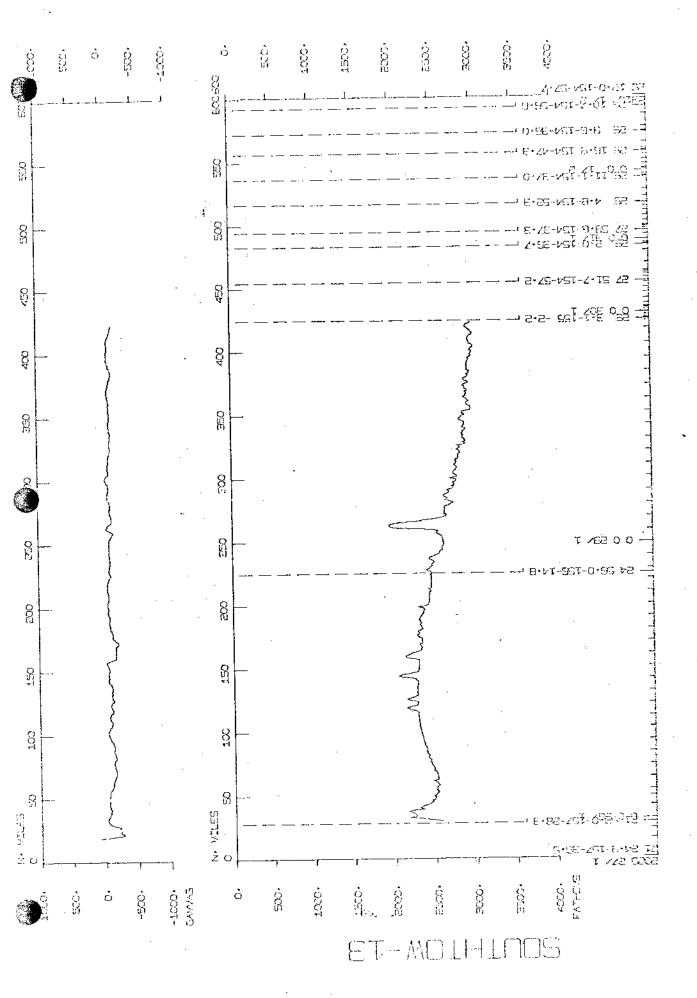
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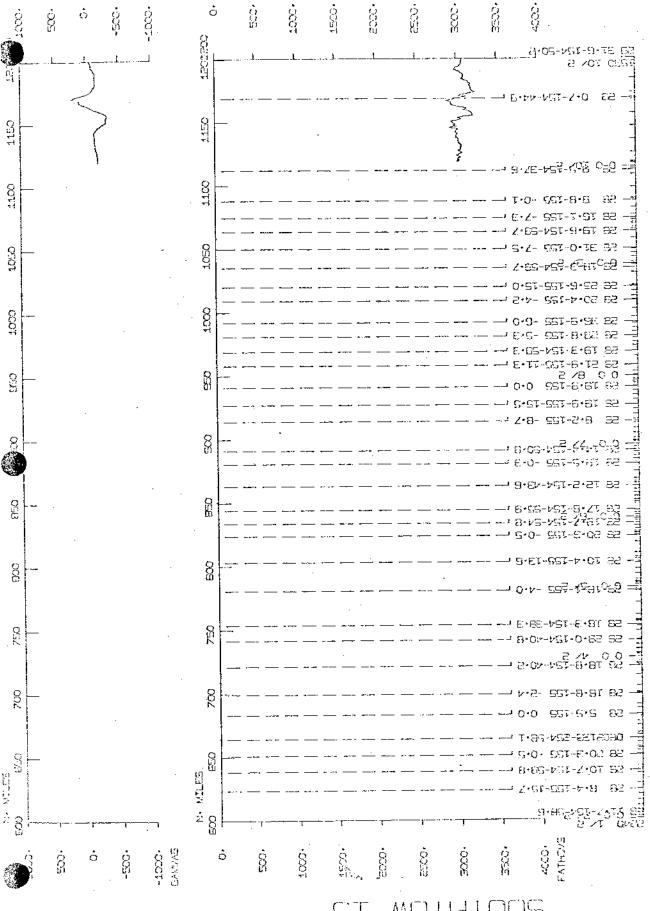
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- Seismic Reflection 0.0 miles 1) Cruise - 3377 miles
 2) Bathymetry - 2410 miles
 3) Magnetics - 2416 miles
 4) Seismic Reflection - 0.0



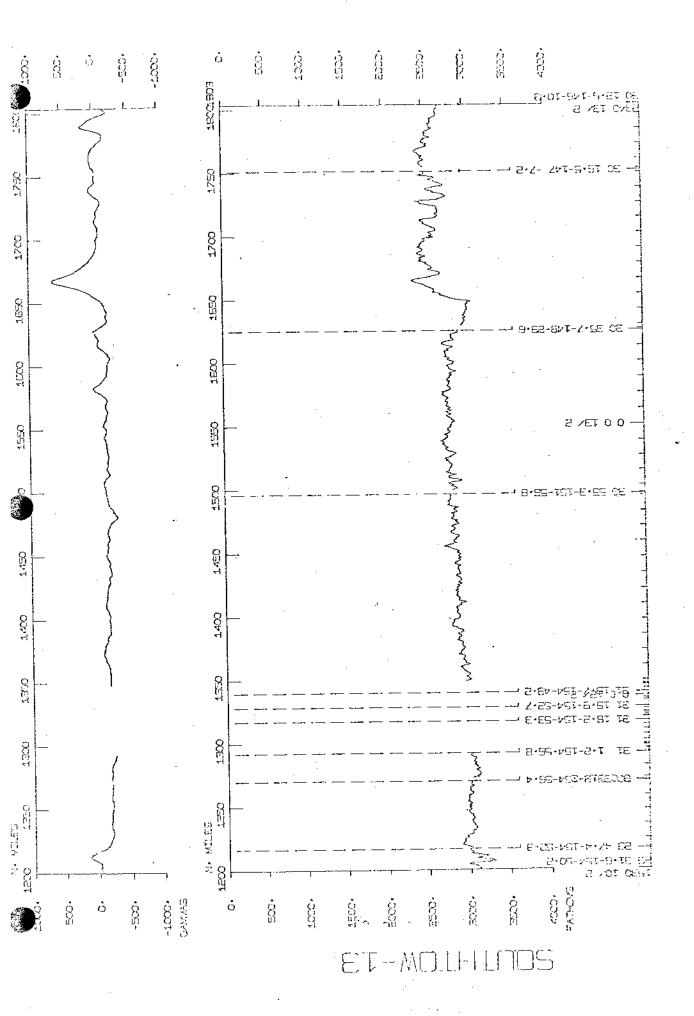


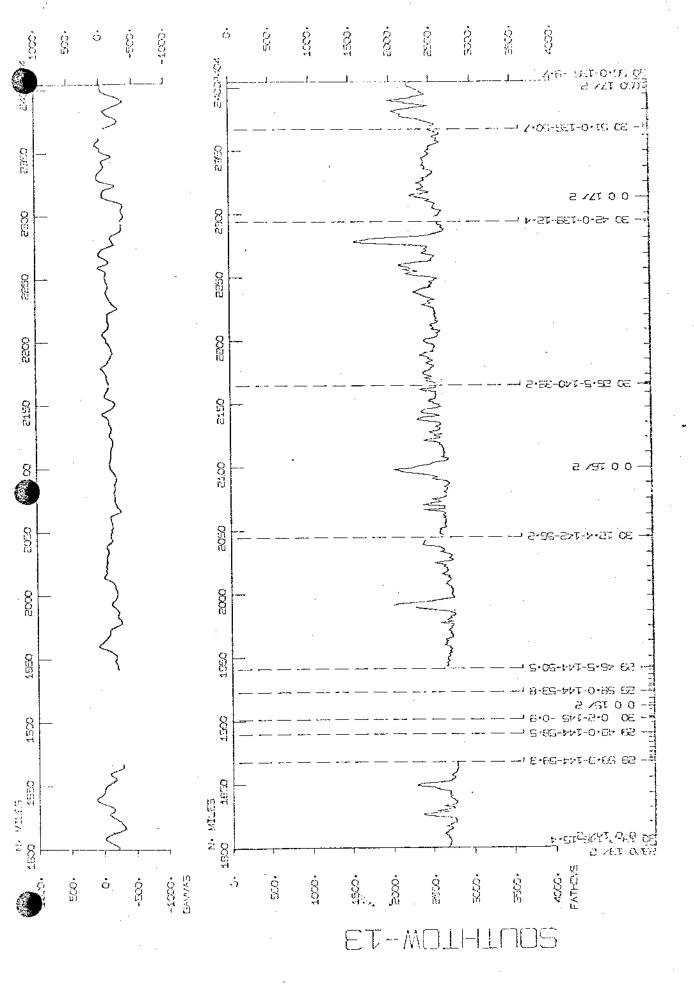
SOUTHTOW EXPEDITION.
LEG 13

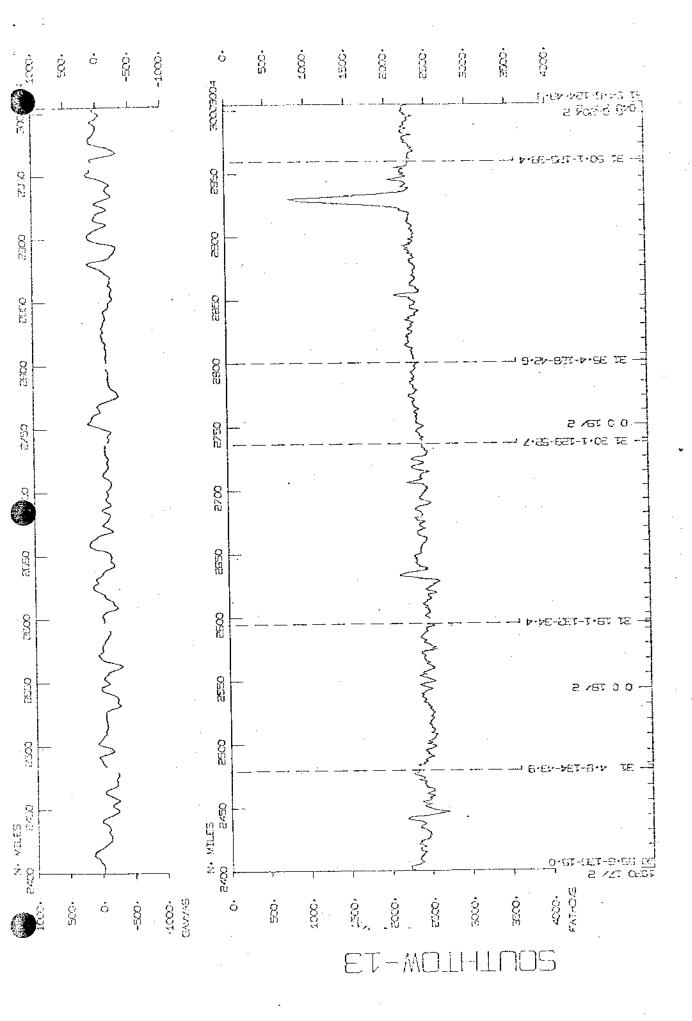


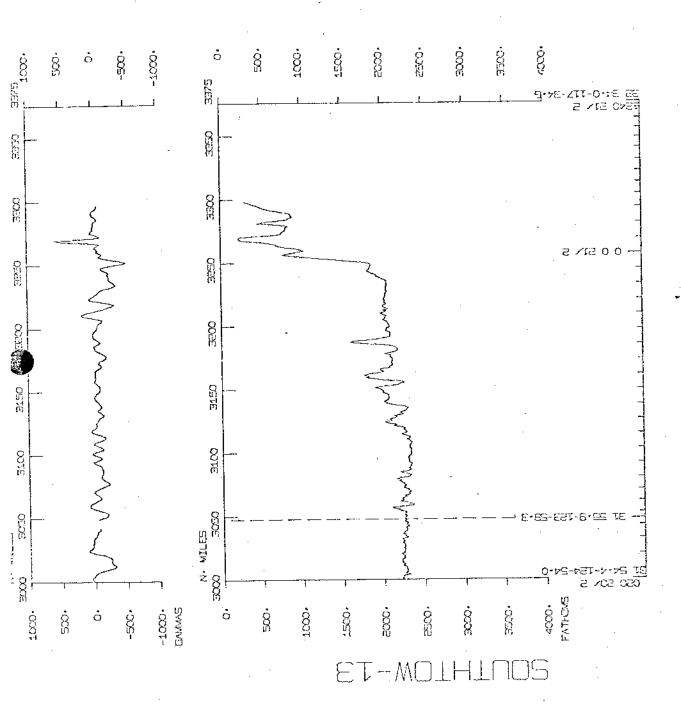


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DATA COLLECTION AND PROCESSING GROUP-F.WILKES (EXT.1140)

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CRUISE LEG-SHIF	-SNO1	LAT.	SURF. DISP SAMPLE IDENT, TEMP. CODE LAT.	IDENT. 1	SAMPLE	SAMP	7.2 LOC	TIME LOC	TIME DATE TIME TZ SAMP GNT D.M.Y. LOC LOC CODE	7.1ME GMT

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7007	10	17			TGR	ш		02		26	2651	155	382₩		SOTWISHT
2143	7	17			TGR	9		03		28	447	155	335		SOT#13WT
2222	10	17			168	ш		03		28	22N	154	35314		SOTW13WT
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NON-SID PROGRAMS-PROCESSOR J.L.COATSWORTH EXT. 2846

AIR SAMPLE

AEROSOLS--A.W.HDGAN S.U.M.Y.

CRUISE LEG-SHIP	251W S SOTW13NT 85W S SOTW13WT 470W S SOTW13WT 229W S SOTW13WT 4W S SOTW13WT 410W S SOTW13WT 102W S SOTW13WT
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