GEOSECS EXPEDITION

LEG F

R/V MELVILLE

INFORMAL REPORT AND INDEX OF NAVIGATION, DEPTH AND MAGNETIC DATA

Pago Pago, Samoa (3 January 1974)

to

Wellington, New Zealand (28 January 1974)

Chief Scientist - P. Biscaye Resident Marine Tech - R. Wilson Post-Cruise Processing by - S. Smith, U. Albright, G. Psaropulos, R. Lingley, J.L. Abbott

Prepared by

Underway Data Processing Group S.I.O. Geological Data Center Scripps Institution of Oceanography La Jolla, California

November 6, 1975

Preliminary Report and Index of Navization, Depth, Magnetic and Subbottom Profiler Data*

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 92093 Phone: (714) 452-2182

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 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.

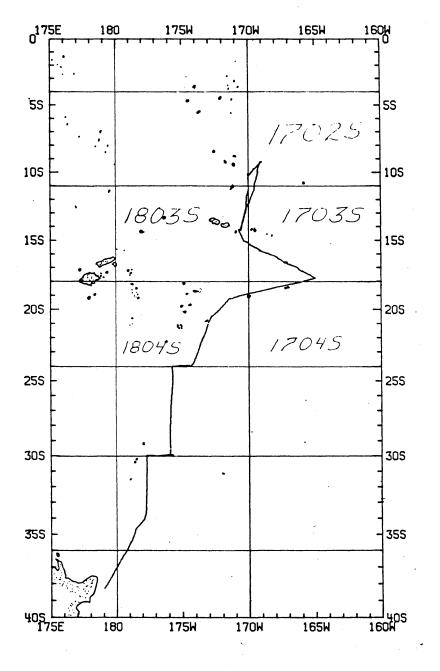
4. Card Decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center). Phone: (714) 452-2752

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
- * No subbottom profiler data was taken on this leg. Cruise report delay due to shipboard computer/receiver problems requiring reprocessing of satellite fixes.

+ Depths not recorded 17-28 January because of fathometer malfunction.

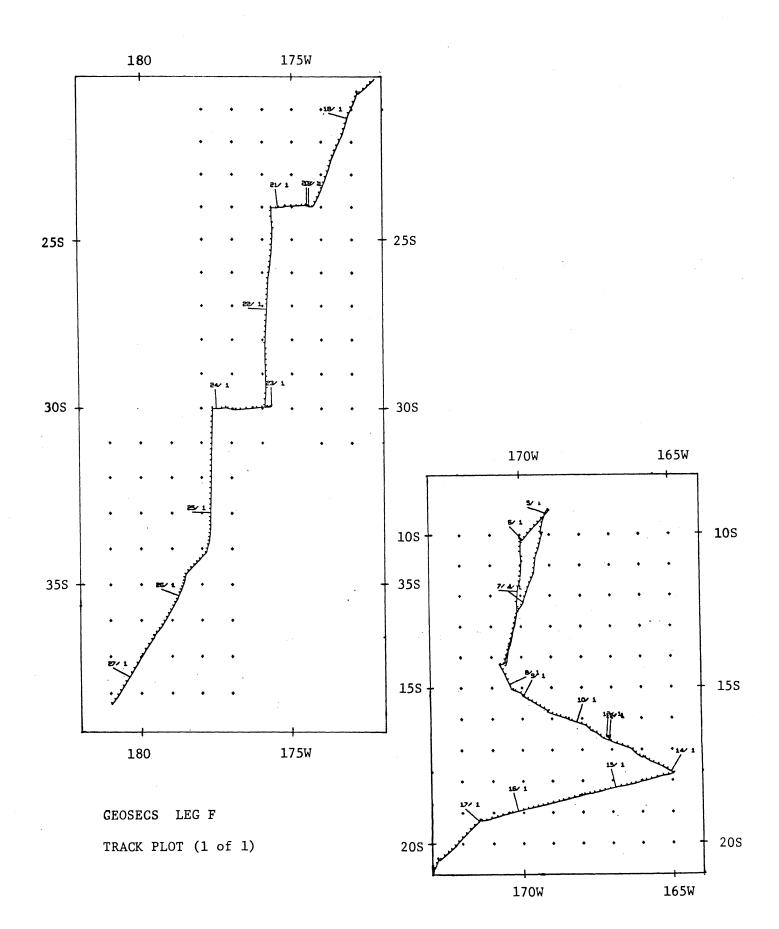


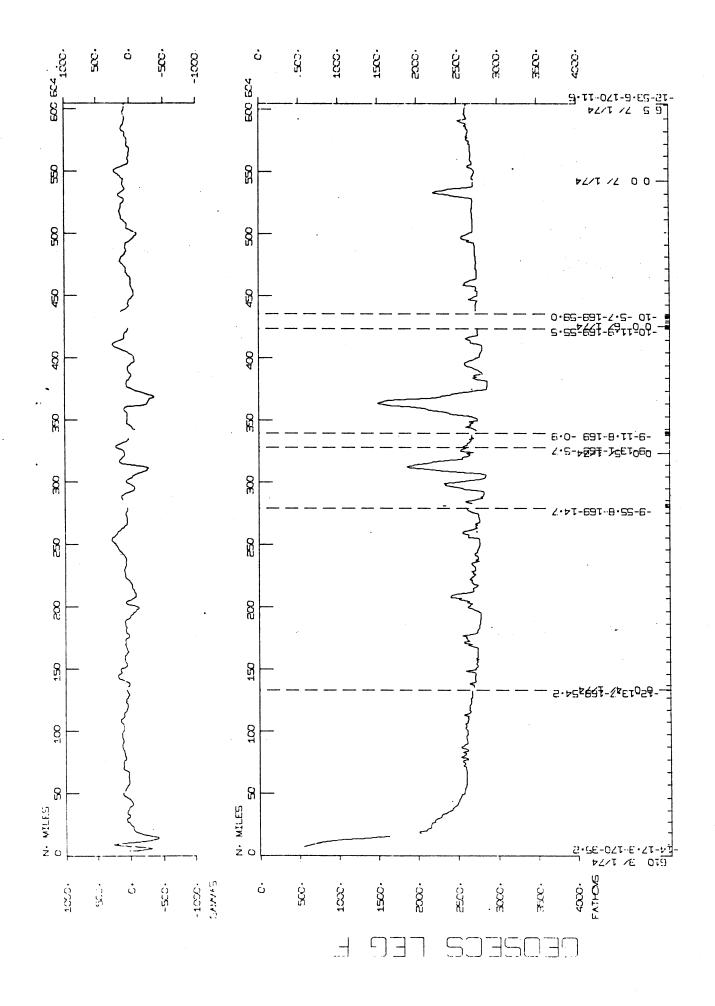
GEOSECS EXPEDITION LEG F R/V MELVILLE

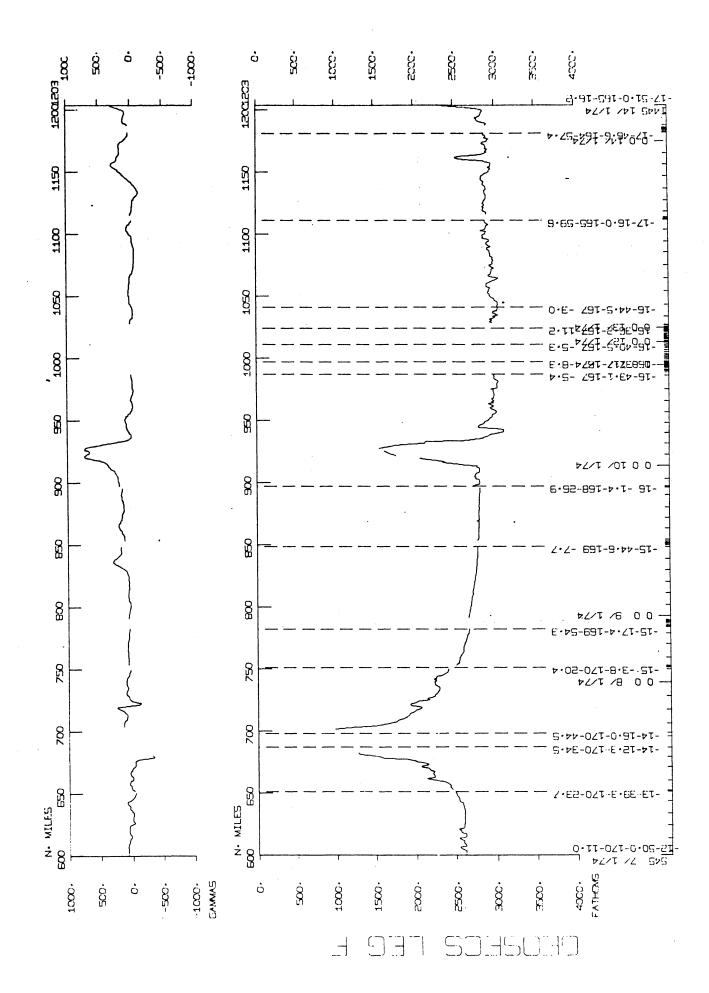
Chief Scientist - P. Biscaye Pago Pago - Wellington, N.Z. (3 January 1974 - 28 January 1974)

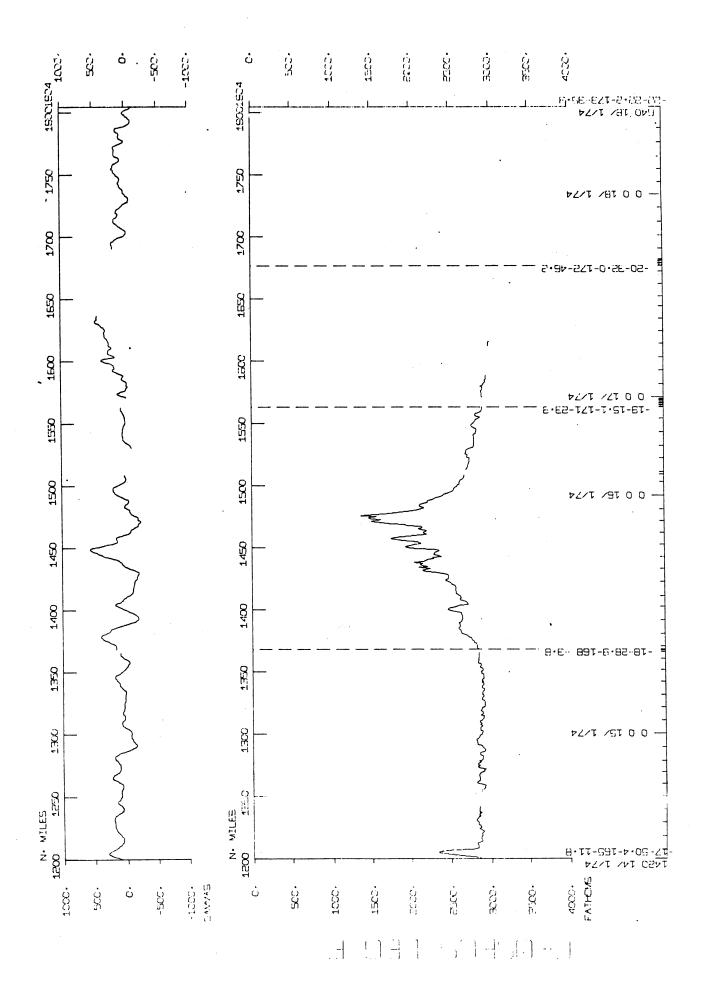
TOTAL MILEAGE

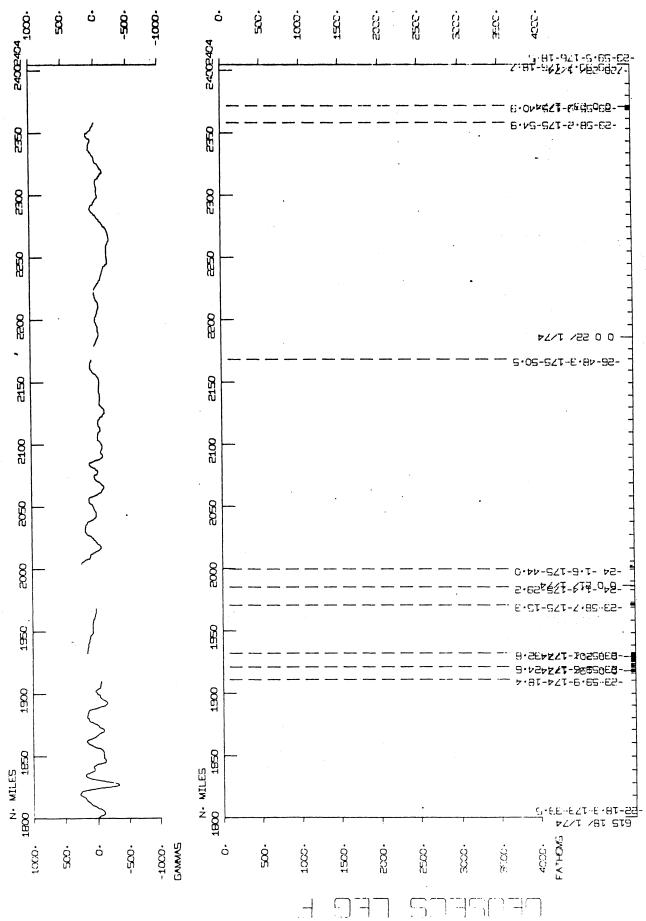
- 1) Cruise 3026 miles
- Bathymetry 1465 miles
 Magnetics 2623 miles
- 4) Seismic Reflection none collected

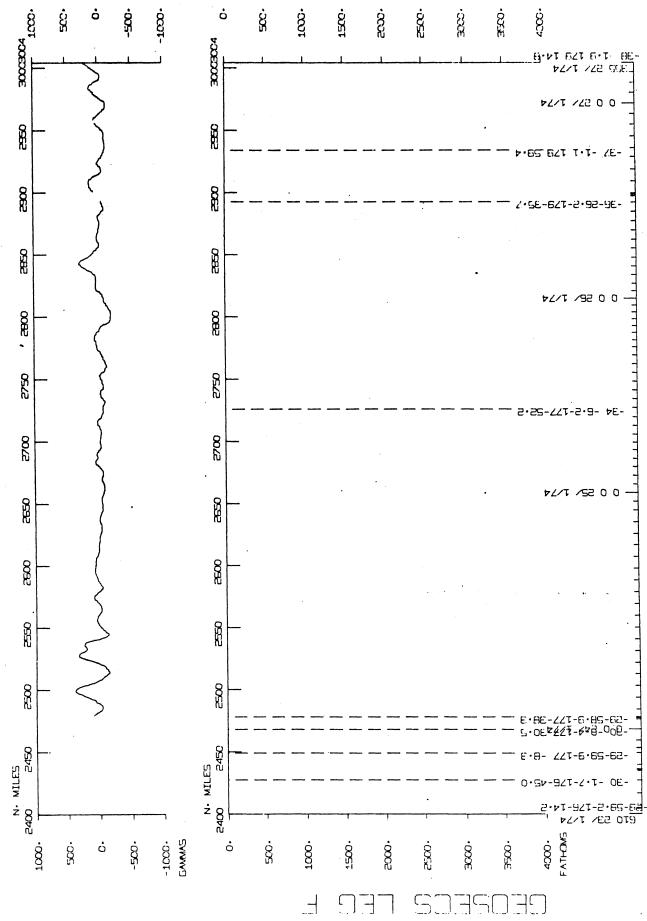


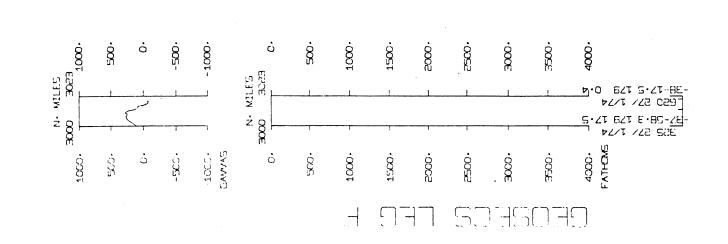














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SAMPLE INDEX

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

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| UNDERWAY DATA - CURATOR T.E. CHASE 2ND FLOOR AQUARIUM (EXT.2182) **** LOG BOOK *** 0550 3 174 LBUW & GEOPHYSICAL LOG GDC 13 4965 172 296W F GECSOFM 0555 27 174 LBUW & GEOPHYSICAL LOG GDC 11 34965 172 296W F GECSOFM *** NAVIGATION PLOTS *** 700 3 174 NVBP & BRIDGE PLOT-01 GDC 14 10BS 170 302W S GECSOFM 612 4 174 NVBP & BRIDGE PLOT-01 GDC 11 231S 169 356W S GECSOFM 612 4 174 NVBP & BRIDGE PLOT-02 GDC 10 231S 169 356W S GECSOFM 1315 6 174 NVBP & BRIDGE PLOT-03 GDC 10 57S 169 590W S GECSOFM 1629 9 174 NVBP & BRIDGE PLOT-03 GDC 10 57S 169 590W S GECSOFM 1629 9 174 NVBP & BRIDGE PLOT-04 GDC 15 573S 168 387W S GECSOFM 1620 14 174 NVBP & BRIDGE PLOT-04 GDC 15 573S 164 387W S GECSOFM 1620 14 174 NVBP & BRIDGE PLOT-05 GDC 17 472S 164 597W S GECSOFM 1620 14 174 NVBP & BRIDGE PLOT-05 GDC 17 472S 164 597W S GECSOFM 134 20 174 NVBP & BRIDGE PLOT-05 GDC 17 472S 164 597W S GECSOFM 334 20 174 NVBP & BRIDGE PLOT-06 GDC 30 5S 177 315W S GECSOFM 1645 25 174 NVBP & BRIDGE PLOT-07 GDC 30 5S 177 316W S GECSOFM 1645 25 174 NVBP & BRIDGE PLOT-06 GDC 30 5S 177 316W S GECSOFM 1645 25 174 NVBP & BRIDGE PLOT-07 GDC 30 5S 177 316W S GECSOFM 1645 25 174 NVBP & BRIDGE PLOT-06 GDC 34 571S 178 374W S GECSOFM 1645 25 174 NVBP & BRIDGE PLOT-07 GDC 34 410S 178 325W S GECSOFM 1645 25 174 NVBP & BRIDGE PLOT-08 GDC 34 410S 178 325W S GECSOFM 1645 25 174 NVBP & BRIDGE PLOT-08 GDC 34 410S 178 325W S GECSOFM ***MAGNETOMETER*** 634 3 174 MGR & MAGNETICS R-01 GDC 14 154S 170 317W S GECSOFM 41 14 174 MGR & MAGNETICS R-02 GDC 17 466S 164 575W S GECSOFM 41 14 174 MGR & MAGNETICS R-02 GDC 17 466S 164 575W S GECSOFM 41 14 174 MGR & MAGNETICS R-02 GDC 17 466S 164 575W S GECSOFM 41 14 174 MGR & MAGNETICS R-02 GDC 17 466S 164 575W S GECSOFM 41 14 174 MGR & MAGNETICS R-02 GDC 17 466S 164 575W S GECSOFM 41 14 174 MGR & MAGNETICS R-02 GDC 17 466S 164 575W S GECSOFM 41 14 174 MGR & MAGNETICS R-02 GDC 17 466S 164 575W S GECSOFM | TIME DATE TIME TZ GMT D.M.Y. LOC LO | SAMP CCUDE SAMPLE IDENT. | DISP CODE LAT. | 16DEC75 LONG. | PAGE 1 CRUISE LEG - SHIP |
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| 35 4 | 174 | | GCTD | B GEOSECS E GEOSECS | STA | 255 | 60 G | 12 | 1395 | 169 | 549W | s S | GECSOFMV GECSOFMV |
| 153 5 | 174 | | GCTD | B GEDSECS E GEDSECS | STA | 256 | 60 G | 9 | 115S | 168 | 594W | S | GECSOFMV |
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| 1042 7 1414 7 | | | GCTD | B GEDSECS E GEDSECS | STA | 258 258 | 60 G 60 G | 13 13 | 39 0S 3 85 S | 170 | 236W 237W | S | GECSOFMV |
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| 1738 9 | 174 | | GCTD | B GEDSECS | STA | 262 | GO G | 16 | 8 S | 168 | 280W | S | GECSOFMV |
| 2235 9 | | | GCTD | E GEOSECS | STA | 262 | GO G | 16 | 275 | 168 | 250W | S | GECSOFMV |
| 1242 13 1532 13 | 174 174 | | GCTD GCTD | B GEOSECS E GEOSECS | STA STA | 264 264 | GO G GO G | 17 17 | 159S 159S | 165 165 | 600W 594W | S S | GECSOFMV GECSOFMV |
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| 1520 20 | 174 | | GCTD | B GEOSECS | STA | 270 | GO G | 23 | 589S | 175 | 145W | S | GECSOFMV |
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| 48 24 174 420 24 174 | GCTD B GEOSECS ST GCTD E GEOSECS ST | | | | S GECSOFMV S GECSOFMV |
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| ***GEOCHEMICAL STA | ATION-SMALL VOLUME** | * | | | |
| | GCSV B GEOSECS ST GCSV E GEOSECS ST | | | | S GECSOFMV S GECSOFMV |
| 41 14 174 1254 14 174 | GCSV B GEDSECS ST GCSV E GEDSECS ST | | | | S GECSOFMU S GECSOFMU |
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| ***GEOCHEMICAL STA | ATION-LARGE VOLUME** | * | | | |
| 1754 5 174 1313 6 174 | GCLV B GEDSECS ST GCLV E GEDSECS ST | | | | S GECSOFM S GECSOFM |
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