# REPORT AND INDEX OF UNDERWAY MARINE GEOPHYSICAL DATA

#### WESTWARD EXPEDITION

**LEG 12** 

(WEST12MV)

**R/V MELVILLE** 

(Issued August 1995)

### Ports:

Hobart, Tasmania (18 April 1995) to Papeete, Tahiti (5 May 1995)

## Technicians in Charge:

Resident Marine Techician -Ronald Comer

Computer Technician -Ronald Moe

No Sea Beam/Underway Processor on board

Post-Cruise Processing and Report Preparation by the Geological Data Center, Scripps Institution of Oceanography La Jolla, California 92093-0223

Data Collection and Processing Funded by: NSF OCE94-00707

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 92093-0223

GDC Cruise I.D.# 266

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# REPORT AND INDEX OF NAVIGATION AND UNDERWAY GEOPHYSICAL DATA

Processed by the Geological Data Center Scripps Institution of Oceanography

#### Contents:

Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.

Track Charts - annotated with dates and hour ticks.

Profiles - depth, magnetic and gravity free air anomaly vs. distance. (Sections of track with seismic reflection data have a wide black line along the bottom of the profile.)

Sample Index - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines if collected on the cruise leg.

NOTE: One or more of the underway data types may not be collected on a given 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 92093-0223.

Phone: (619)534-2752, FAX: (619)534-5306, Internet email: ssmith@ucsd.edu

- 1. Files on Exabyte, DAT or 1/2 inch magnetic tape:
  - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
  - b) These same data in a merged ASCII file in the MGD77 Exchange Format.
  - c) SeaBeam depth data (binary, Sun byte order) in SIO Swath Bathymetry Format (not available on 1/2" tape).
  - d) SeaBeam Sidescan data (not available on 1/2" tape).
- 2. Microfilm (35 mm flowfilm) or hard copies of:
  - a) Underway watch log book
  - b) SeaBeam vertical beam profile/Sidescan records.
  - c) Echosounder records 3.5 kHz frequency.
  - d) Magnetometer records.
  - e) Seismic reflection profiler records.
- Navigation listing with times and positions of fixes and course and speed changes.
- 4. Plots:
  - a) Copies of archived track plots.
  - b) Copies of archived SeaBeam contour plots.
  - c) Custom plots in Mercator projection:
    - 1) Track plots.
    - 2) SeaBeam depth contour plots.
    - Depth, magnetic or gravity values printed or profiled along track.

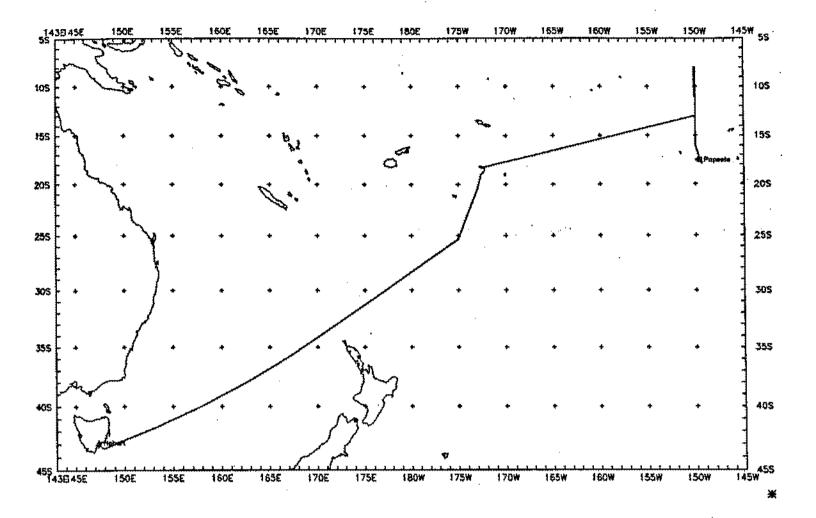
rev 7/93

# Sea Beam 2000 Data Collected in Ancillary Mode

In the absence of funding for Sea Beam operations on this leg, Sea Beam data were collected in "ancillary mode". In this mode of operation, no Hardware Technician or SB/Underway Processor were on board and the types of realtime records and post-processed data products are reduced from those available under the fully funded mode.

The Sea Beam data remain proprietary to the SIO Shipboard Technical Support Group, not the chief scientist.

May 1993



# WESTWARD EXPEDITION LEG 12

TECHNICIANS IN CHARGE: Ronald Moe and Ronald Comer

Scripps Institution of Oceanography

PORTS: Hobart, Tasmania - Papeete, Tahiti

DATES: 18 April - 5 May 1995

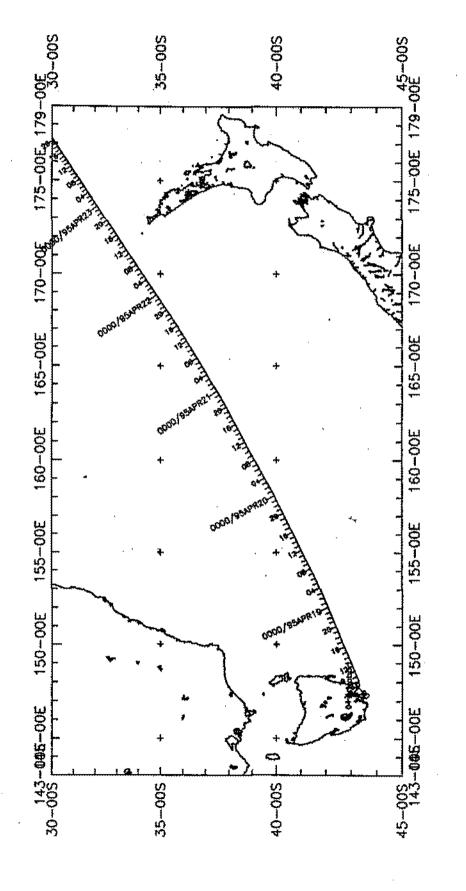
SHIP: R/V Melville

# TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

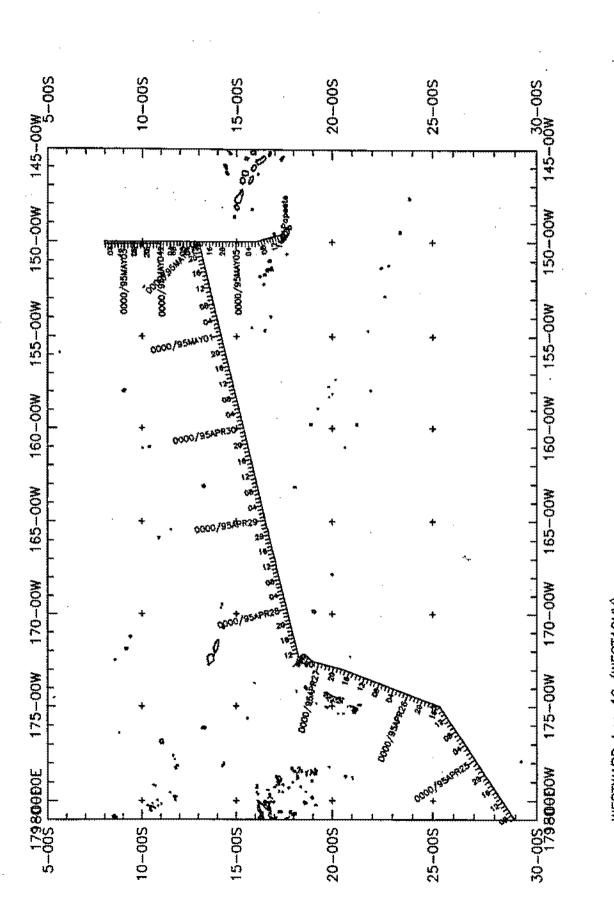
Cruise - 4900 miles Magnetics - 4097 miles

Bathymetry - 4830 miles Seismic Reflection - none collected

Sea Beam - 4830 miles Gravity - none collected, meter malfunction

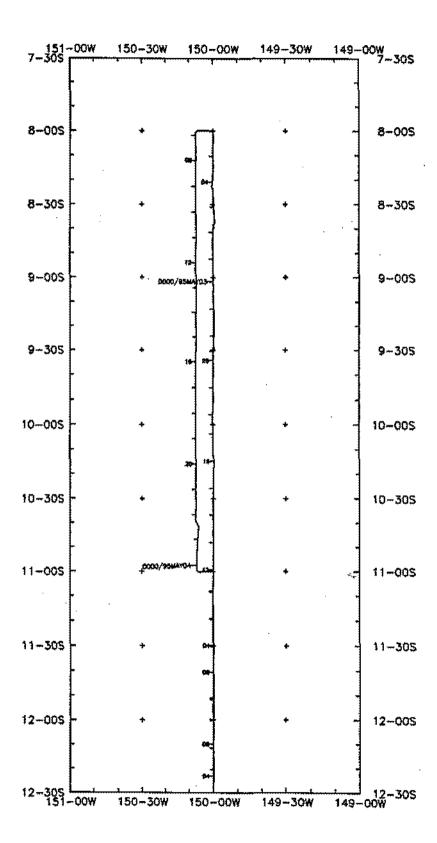


WESTWARD Leg 12 (WEST12MV) Track 1of 2

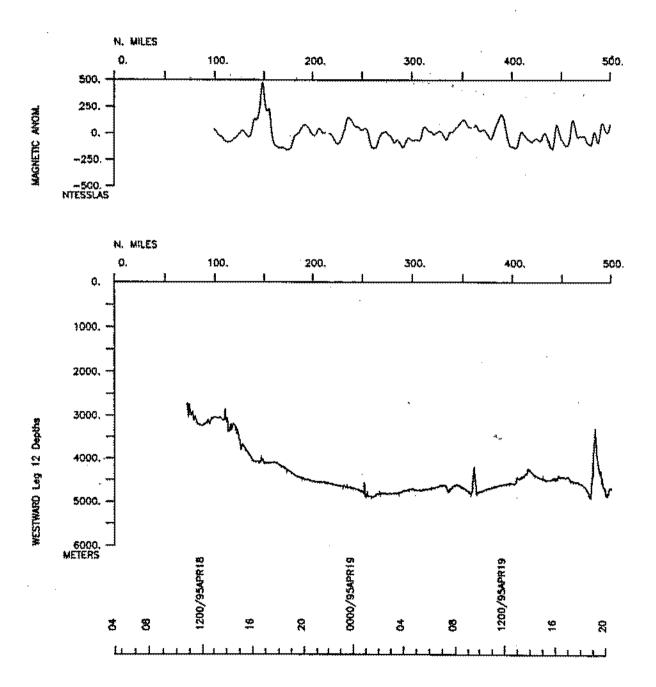


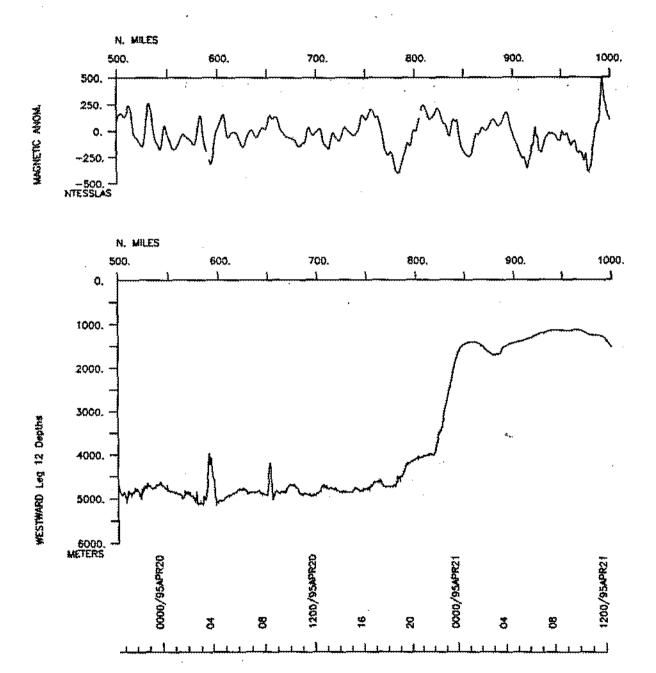
WESTWARD Leg 12 (WEST12MV) Track 2 of 2

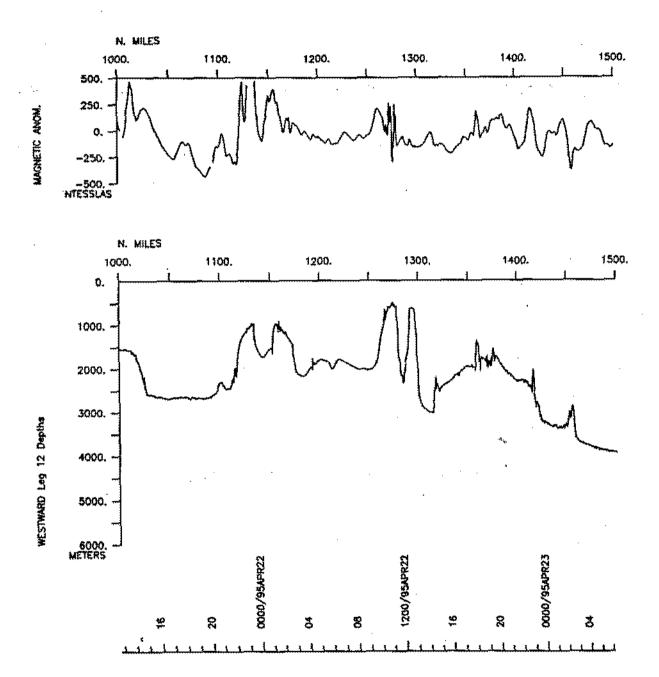
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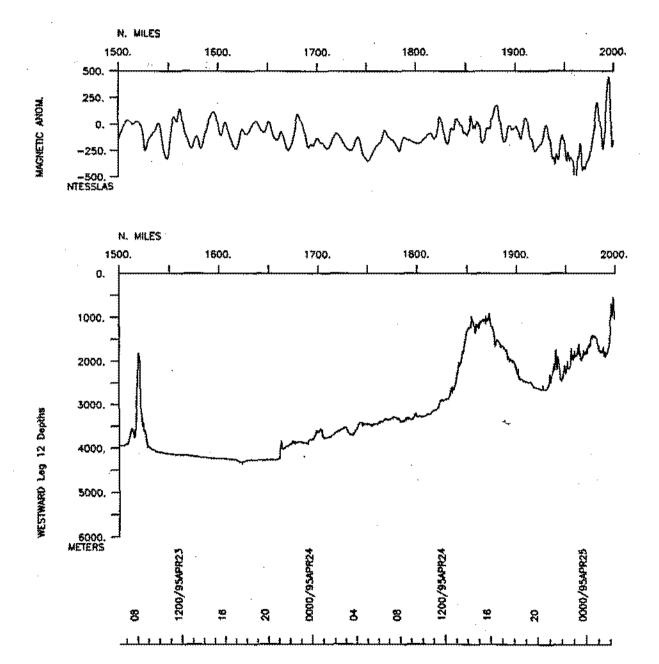


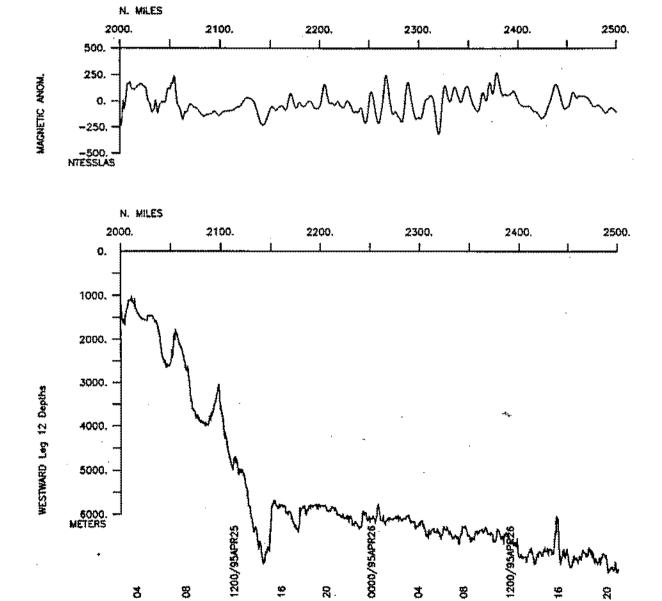
WESTWARD Leg 12 (WEST12MV) Survey orea











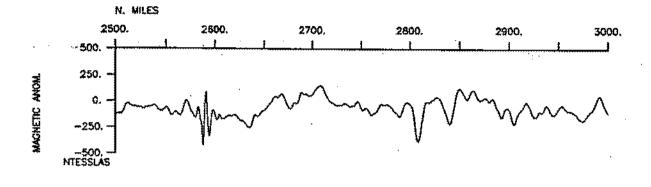
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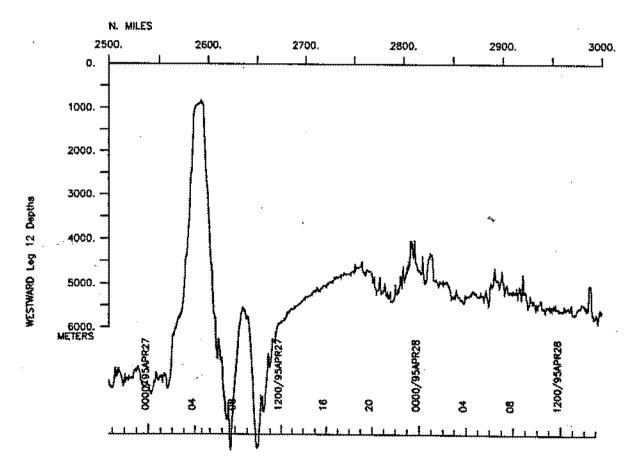
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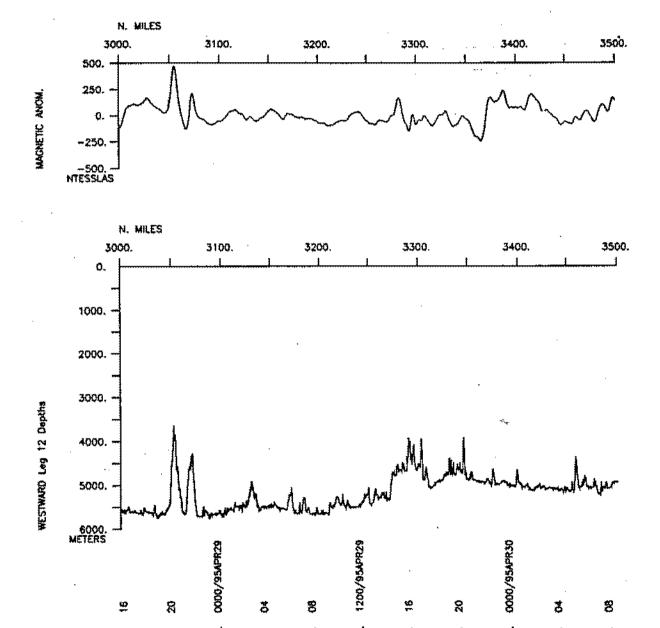
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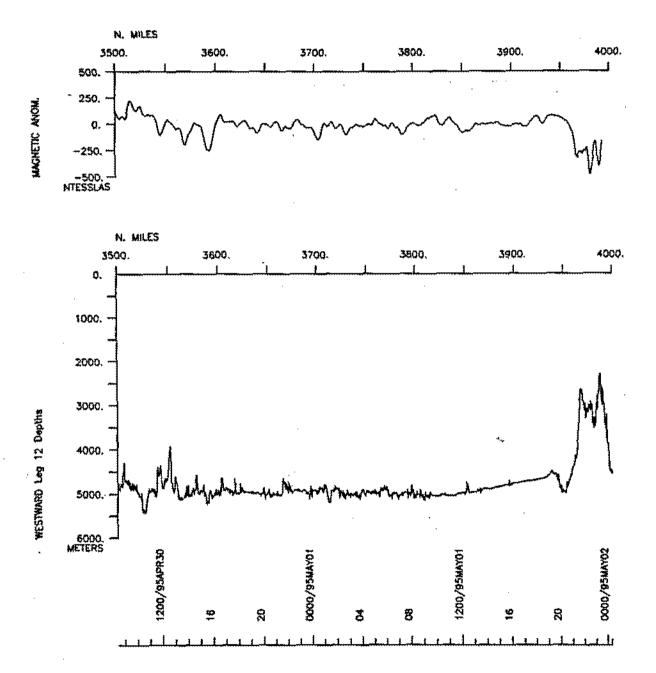
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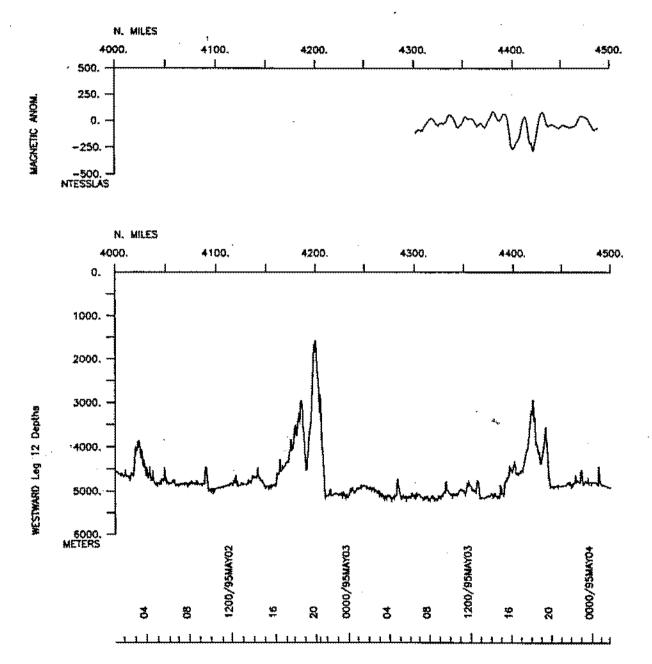
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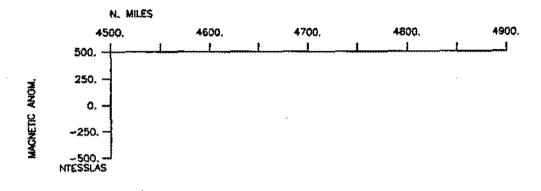


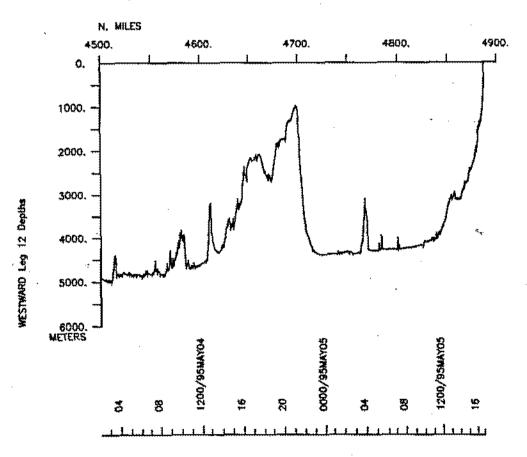












### S.I.O. SAMPLE INDEX

(Issued August 1995)

### WESTWARD EXPEDITION

Leg 12

(WEST12MV)

R/V Melville

Hobart, Tasmania (18 April 1995) to Papeete, Tahiti (5 May 1995)

Technicians in Charge:

Ronald Comer and Ronald Moe (SIO)

The Sample Index is a first level interdisiplinary 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 marine 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 lines. 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 1.D.# 266

```
SAMP B SAMPLE
                               DISP
                                                         p CRUISE
TZ CODE E IDENTIFIER
                               CODE LATITUDE LONGITUDE C LEG-SHIP
logy Measurements ***
 0 IMET B Weather Data
                             GDC 42-50.698 147-19.82E q WEST12MV
                             GDC 17-32.33S 149-34.57W g WEST12MV
 0 IMET E Weather Data
ble Bathythermographs ***
 0 BTXP
          XBT T-5 t-5$1.sip
                               NOAA 42-50.68S 147-19.85E g WEST12MV
 0 BTXP
          XBT T-5 t-5$2.sip
                               NOAA 39-53.87S 158-07.74E g WEST12MV
          XBT T-5 t-5$3.sip
 0 BTXP
                               NOAA 39-34.91S 158-52.28E g WEST12MV
 0 BTXP
          XBT T-5 t-5$4.sip
                               NOAA 37-47.635 163-00.82E g WEST12MV
 0 BTXP
          XBT T-5 t-5$5.sip
                               NOAA 37-45.76S 163-04.81E g WEST12MV
          XBT T-5 t-5$6.sip
 0 BTXP
                               NOAA 37-43.855 163-08.69E g WEST12MV
 0 BTXP
          XBT T-5 t-5$7.sip
                               NOAA 37-09.73S 164-16.33E g WEST12MV
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          XBT T-5 t-5$8.sip
                               NOAA 35-14.98S 168-03.71E g WEST12MV
 0 BTXP
          XBT T-5 t-5$9.sip
                               NOAA 34-46.55S 168-53,87E g WEST12MV
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                               NOAA 29-42.90S 177-43.11E g WEST12MV
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                               NOAA 23-31.94S 174-14.71W g WEST12MV
          XBT T-5 t-5$13.sip
 0 BTXP
                               NOAA 19-01.245 172-35.35W g WEST12MV
                               NOAA 17-36.57S 169-34.29W g WEST12MV
 O BTXP
          XBT T-5 t-5$14.sip
 O BIXP
          XBT T-5 t-5$15.sip
                               NOAA 16-32.61S 165-05.45W g WEST12MV
          XBT T-5 t-5$16.sip
 0 BTXP
                               NOAA 15-21.948 159-59.56W g WEST12MV
 O BIXP
          XBT T-5 t-5$17.sip
                               NOAA 14-12.315 155-04.83W g WEST12MV
 0 BTXP
          XBT T-5 t-5$18.sip
                               NOAA 13-04.70S 150-09.18W g WEST12MV
                               NOAA 9-20.42S 149-59.63W g WEST12MV
 0 BTXP
          XBT T-5 t-5$19.sip
          XBT T-5 t-5$20.sip
 0 BTXP
                               NOAA 12-45.98S 149-59.90W g WEST12MV
                                                           WEST12MV
   End sample index
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