

*Report and Index of
Underway Marine Geophysical Data*

SOJOURN EXPEDITION

LEG 7

(SOJN07MV)

R/V MELVILLE

(Issued May 1997)

Ports:

Hobart, Tasmania (10 April 1997)

to

Melbourne, Australia (17 April 1997)

Co-Chief Scientists:

Neville Exon (Australian Geological Survey Organization)

Stuart M. Smith (Scripps Institution of Oceanography)

Resident Marine Technician - Ron Comer

Computer Technician - Ron Moe

Seabeam/UW Processor - Stuart M. Smith

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
AGSO 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 92093-0223*

GDC CRUISE I.D.# 269

**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)534-6500, Internet email:
ssmith@ucsd.edu

1. Files on Exabyte or DAT:
 - 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. (*)
 - d) SeaBeam Sidescan data. (*)

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.

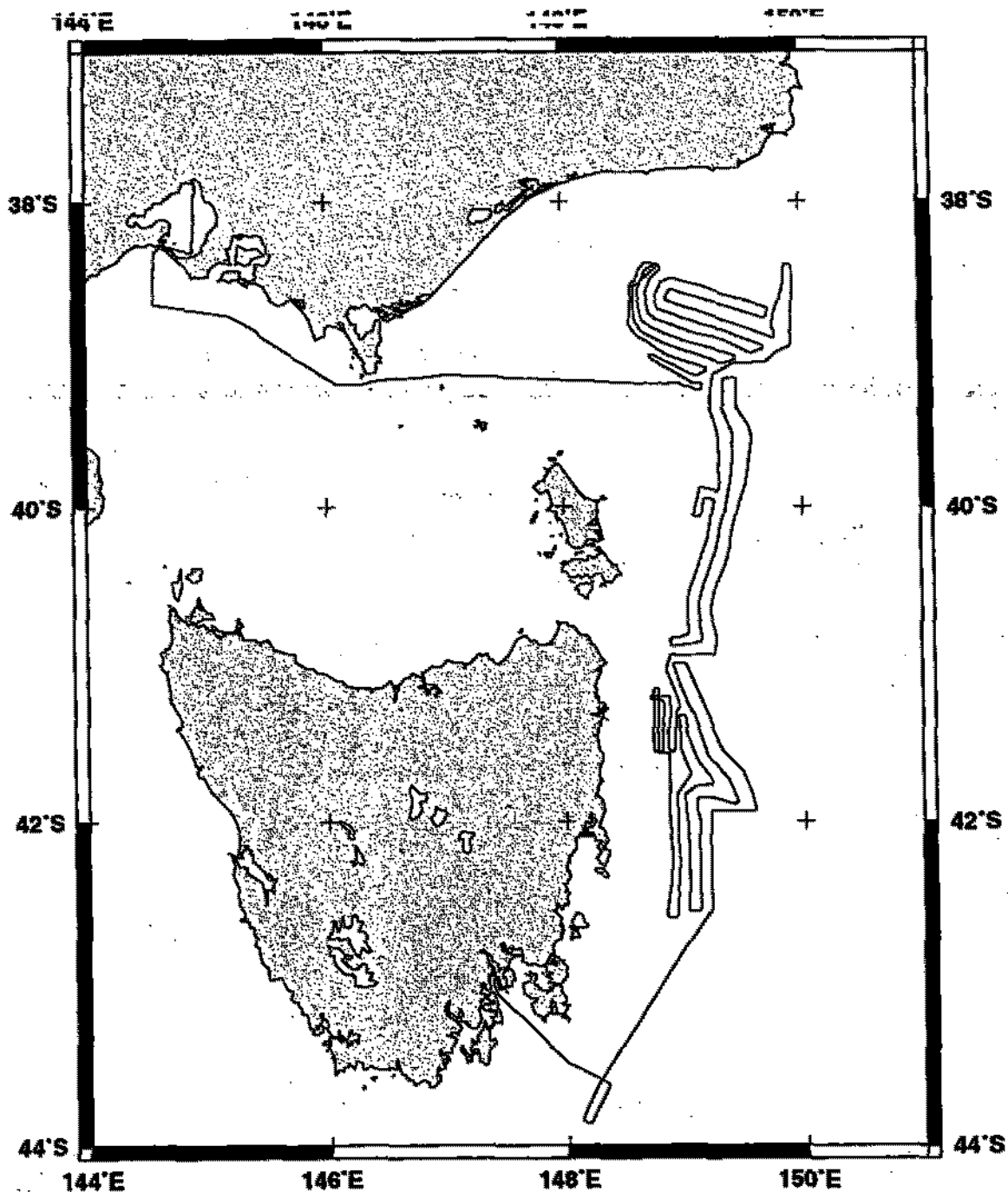
3. Navigation listing with times and positions of fixes and course and speed changes.

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.
 - 3) Depth, magnetic or gravity values printed or profiled along track.

(* R/V Revelle Seabeam 2100 data available in SB2100 vendor format only, as of October 1996

rev10/96



SOJOURN EXPEDITION LEG 7

CO-CHIEF SCIENTISTS: Stuart M. Smith (SIO) & Neville Exon (AGSO)

PORTS: Hobart, Tasmania - Melbourne, Australia

DATES: 10 - 17 April 1997

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 2088 miles

Magnetics - 1842 miles

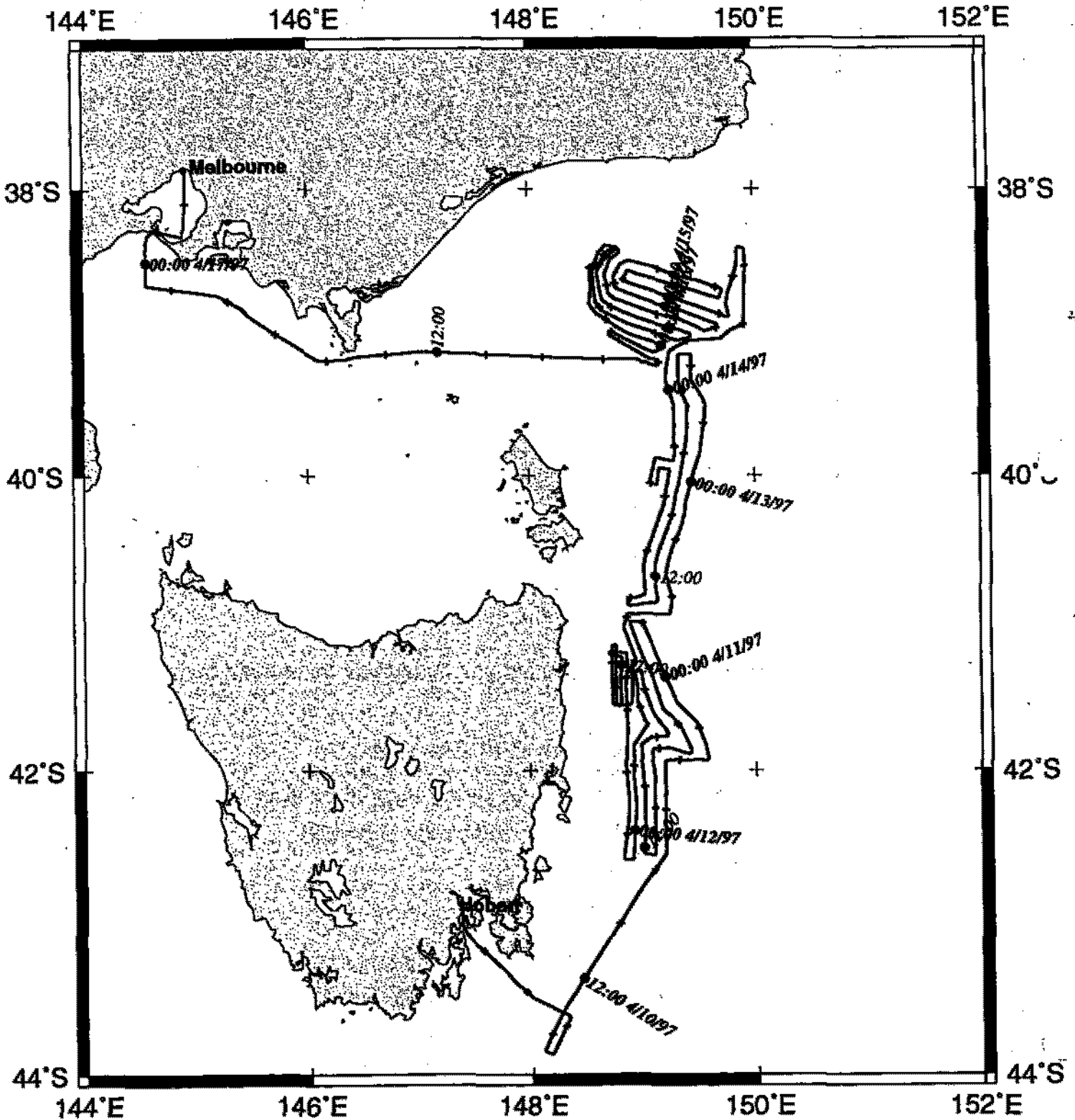
Bathymetry - 1860 miles

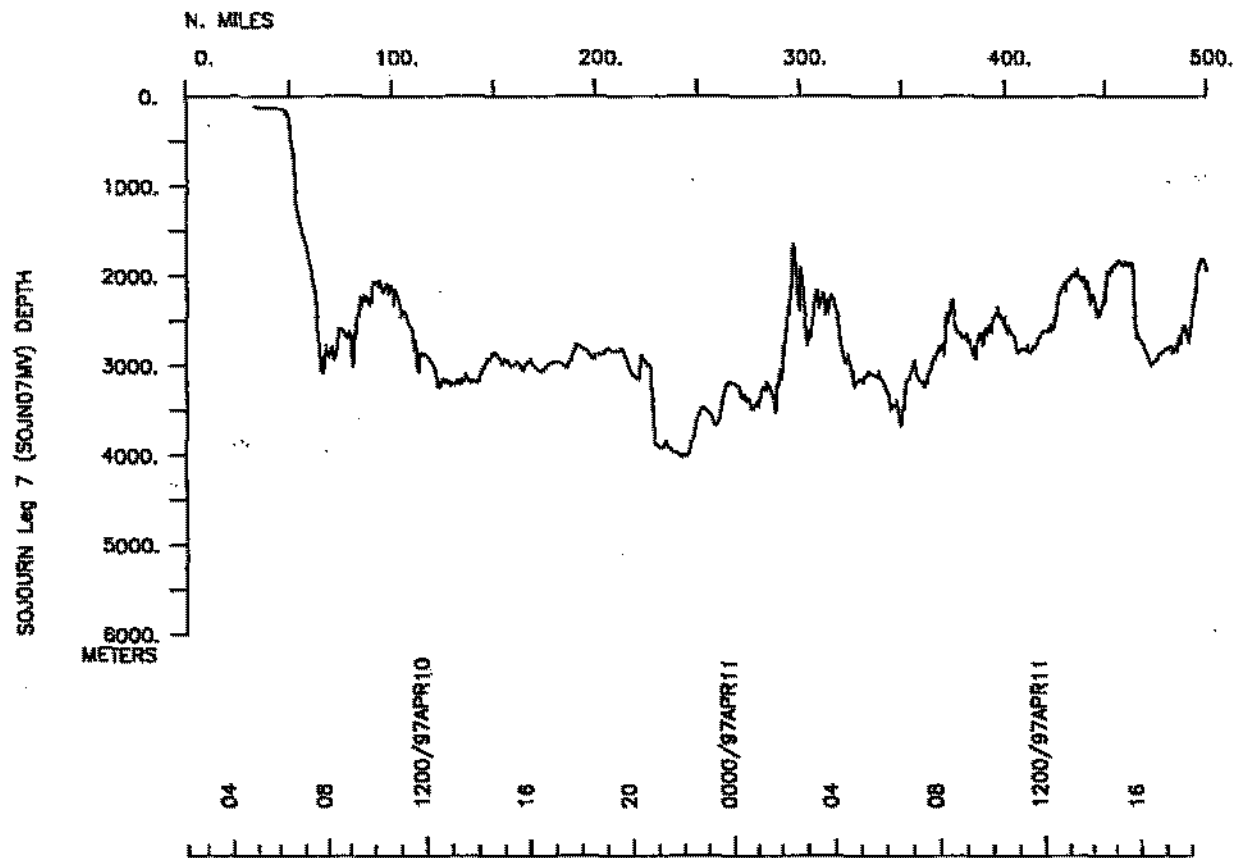
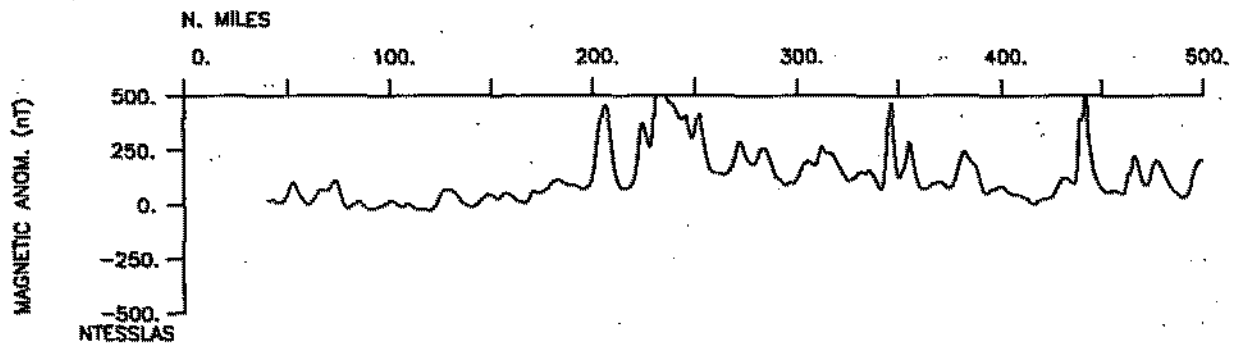
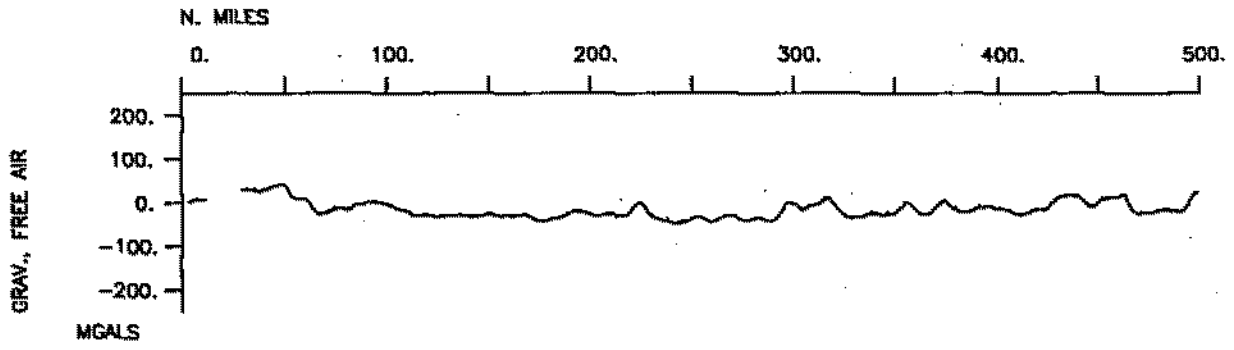
Seismic Reflection - none collected

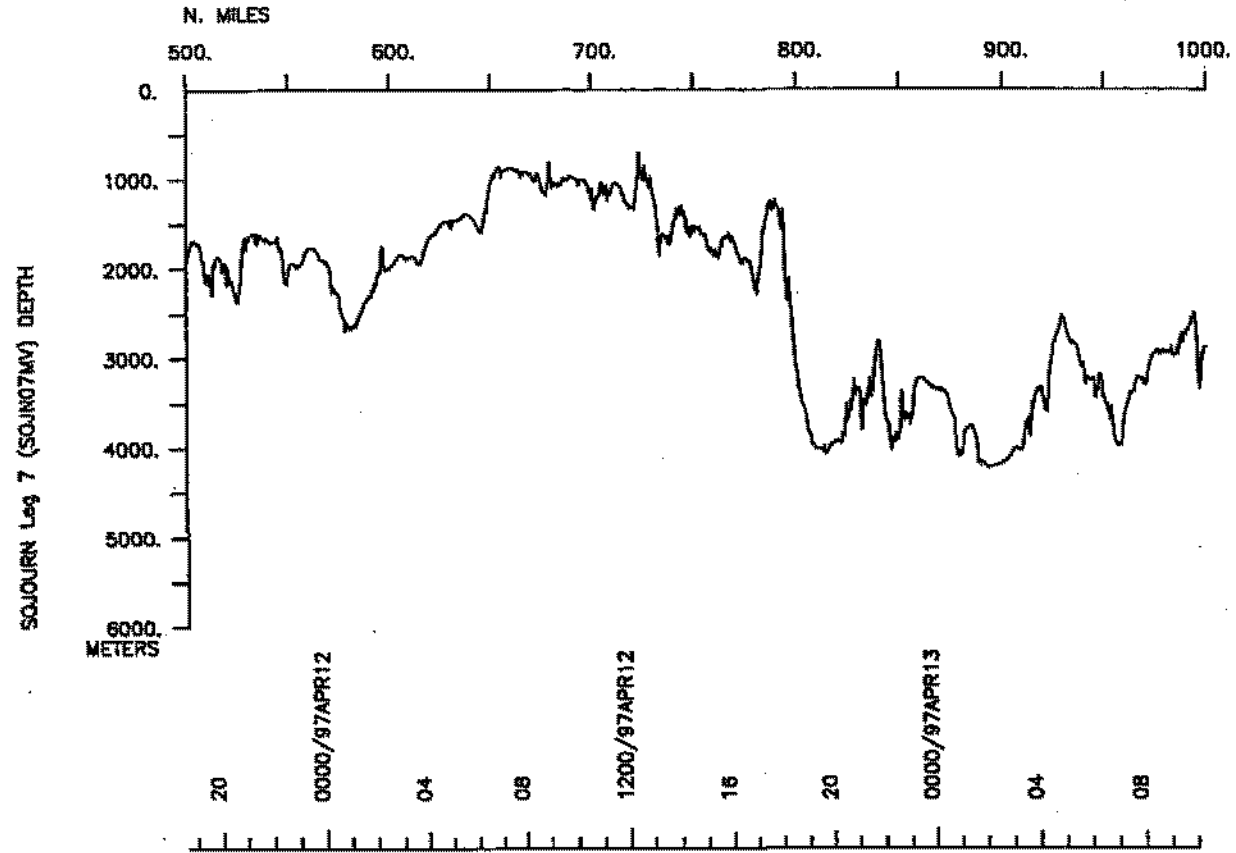
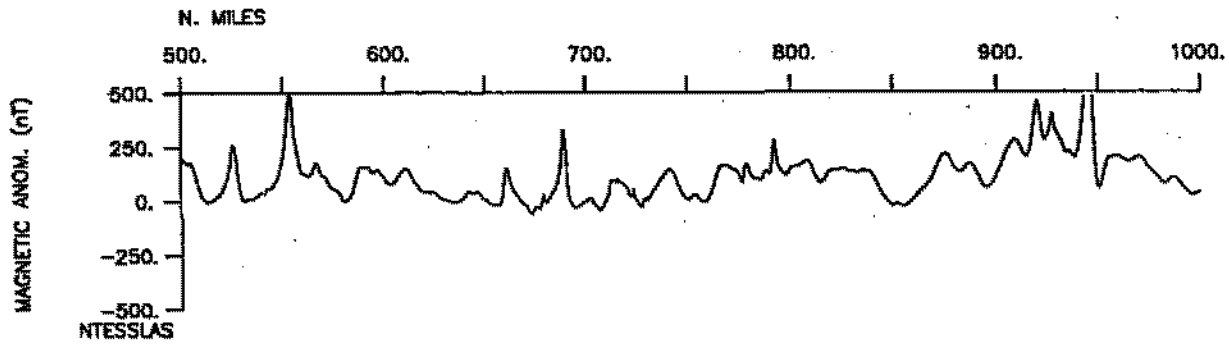
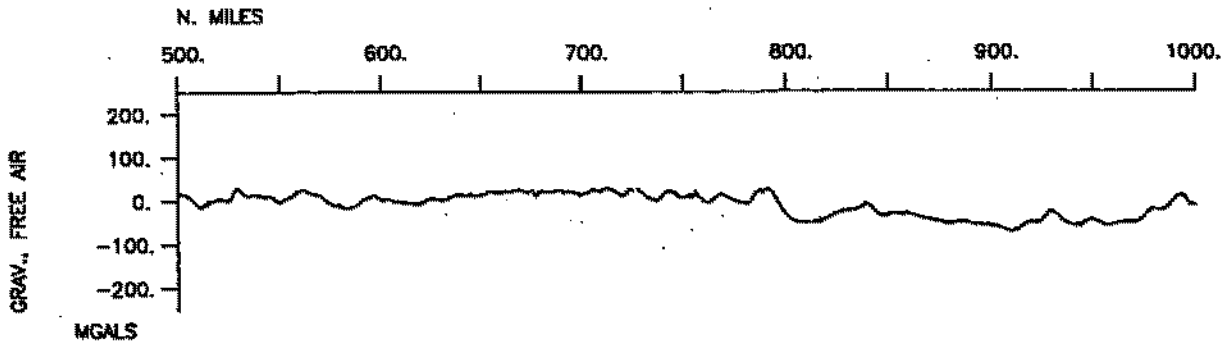
Sea Beam - 1860 miles

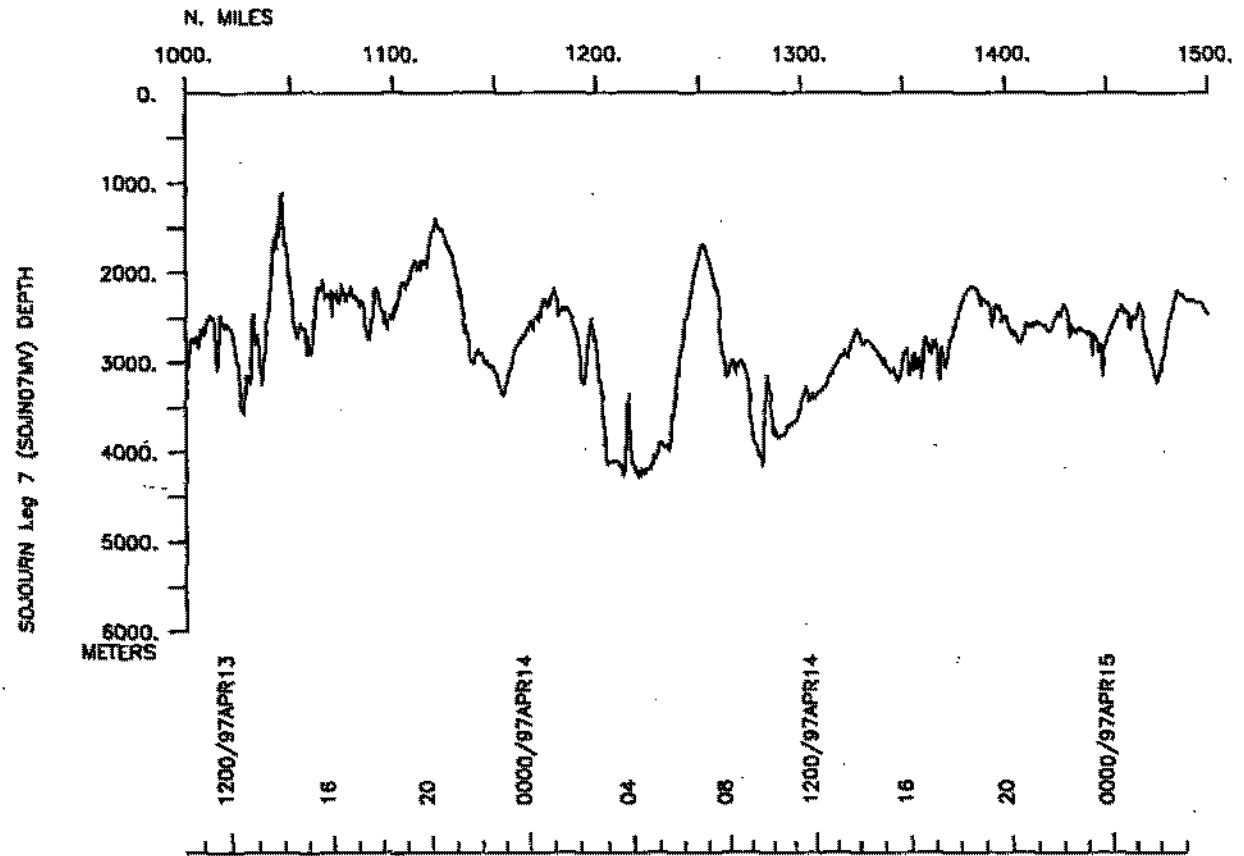
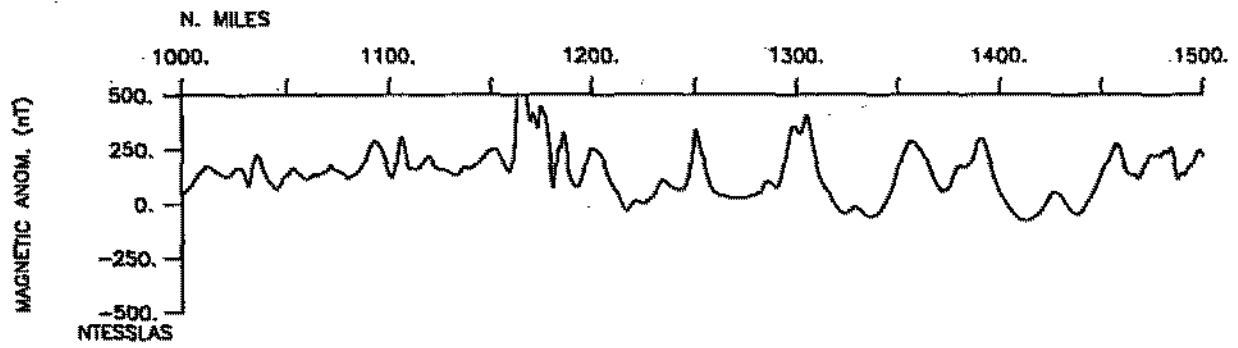
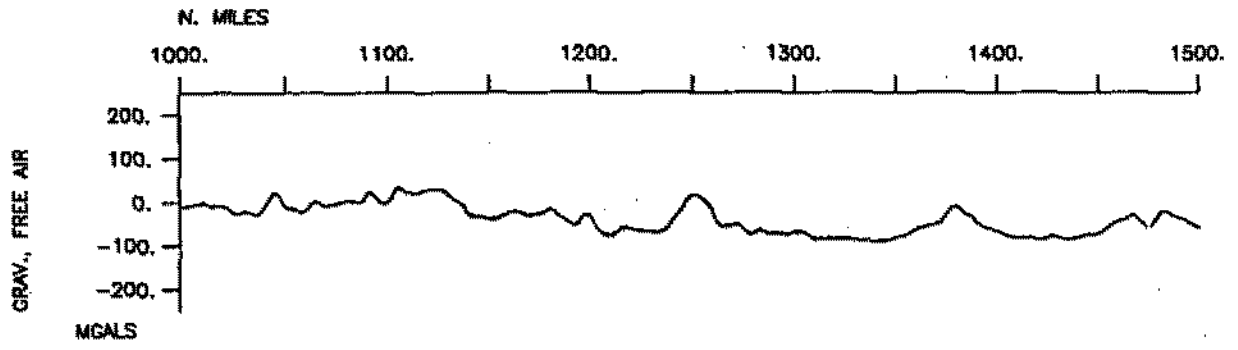
Gravity - 2040 miles

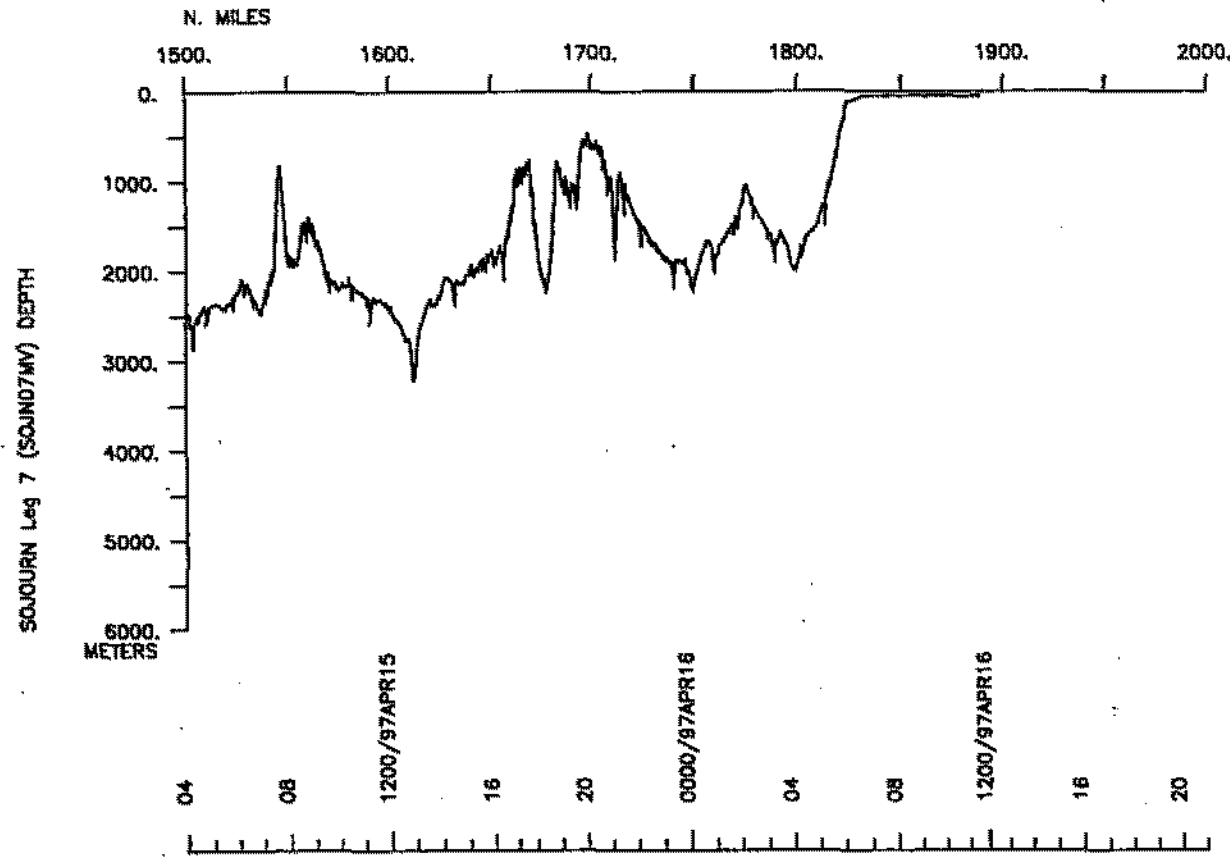
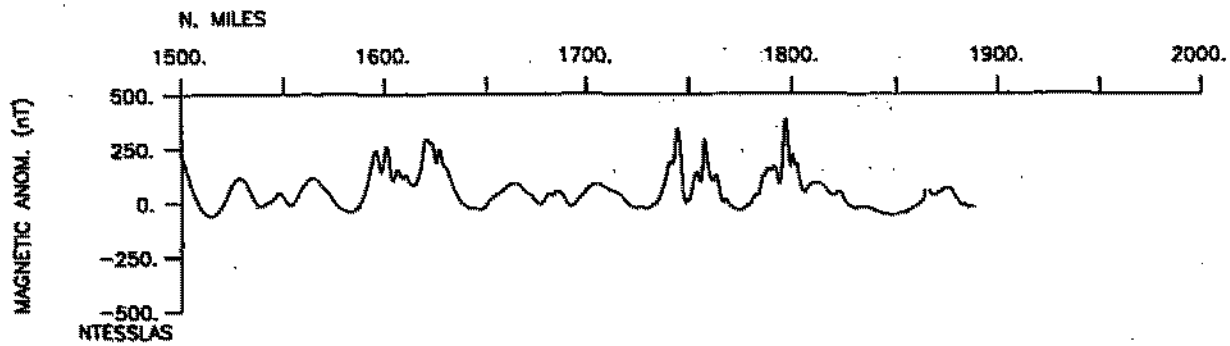
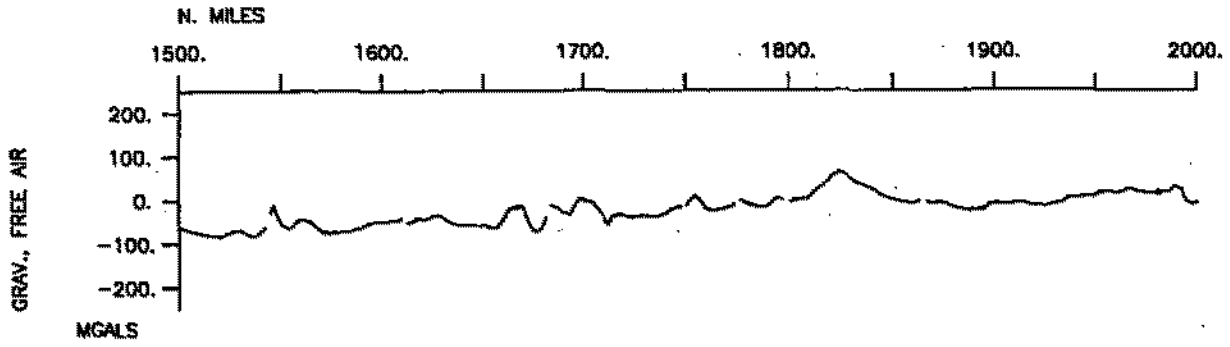
SOJN07MV

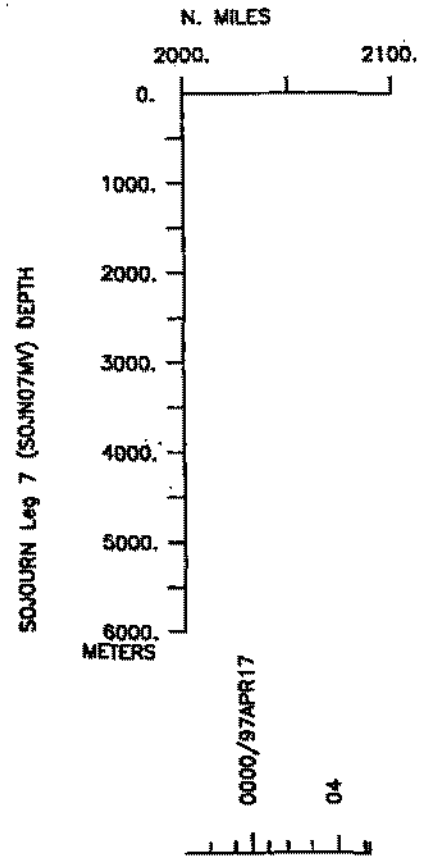
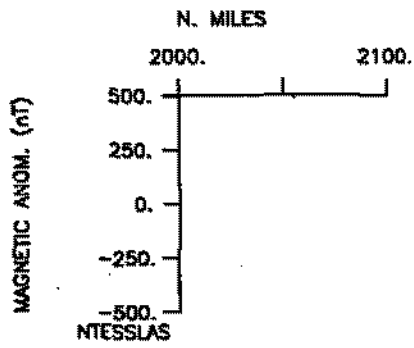
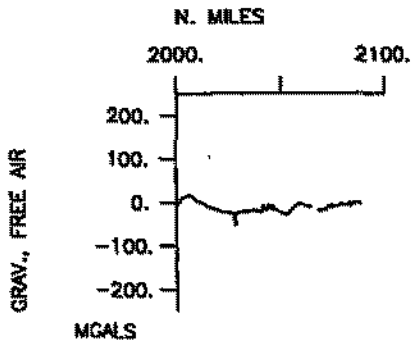












S.I.O. SAMPLE INDEX

SOJOURN EXPEDITION

LEG 7

(SOJN07MV)

R/V Melville

(Issued May 1997)

Ports:

Hobart, Tasmania (10 April 1997)
to
Melbourne, Australia (17 April 1997)

Chief Scientists:

Neville Exon, Australian Geological Survey Organization
Stuart M. Smith, Scripps Institution of Oceanography

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 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 I.D.# 269

**** Ports ****

0205	100497	LGPT B Hobart, Tasmania.	42-53.00S	147-20.00E	f	SOJN07MV
0600	170497	LGPT E Melbourne, Aust.	37-49.00S	144-57.00E	f	SOJN07MV

**** Personnel ****

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS AUA	Exon, Dr. Neville	CoChief Scientist	Australian Geol. Surv	SOJN07MV
PECS STS	Smith, Stuart M.	CoChief Scientist	Scripps Institution	SOJN07MV
PESP AUA	Hill, Dr. Peter	Research Geol.	Australian Geol. Surv	SOJN07MV
PESP AUA	Keene, Dr. Jock	Professor	Univ. of Sydney	SOJN07MV
PECT STS	Moe, Ronald	Computer Engineer	Scripps Institution	SOJN07MV
PERT STS	Comer, Ron	Resident Tech.	Scripps Institution	SOJN07MV

**** 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 a particular leg. (Moored
 #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 DDMYY	SAMP B	SAMPLE	DISP			p	CRUISE	
#TIME DATE	TZ	CODE E	IDENTIFIER	CODE	LATITUDE	LONGITUDE	c	LEG-SHIP

**** Underway Data Curator - S. M. Smith ext. 42752 ****

**** Log Books ****

0430	100497	0	LBUW	B	Underway Watch Log	GDC	43-15.96S	147-40.59E	g	SOJN07MV
1125	160497	0	LBUW	E	Underway Watch Log	GDC	39-09.01S	147-16.45E	g	SOJN07MV

**** Magnetism (Earth Total Field) Records ****

0515	100497	0	MGRA	B	Magnetism R-01	GDC	43-21.66S	147-48.39E	g	SOJN07MV
1125	160497	0	MGRA	E	Magnetism R-01	GDC	39-09.01S	147-16.45E	g	SOJN07MV

**** Continuous Recorded Gravity ****

0205	100497	0	GVCR	B	Auto-logged Gravity	GDC	42-54.22S	147-21.29E	g	SOJN07MV
0600	170497	0	GVCR	E	Auto-logged Gravity	GDC	37-51.75S	144-54.80E	g	SOJN07MV

**** Sea Beam Records (vertical beam and side scan) ****

0500	100497	0	MBSR	B	v.beam&sidescan r-01	GDC	43-20.30S	147-46.53E	g	SOJN07MV
1146	160497	0	MBSB	E	v.beam&sidescan r-01	GDC	39-08.87S	147-13.82E	g	SOJN07MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP	LATITUDE	LONGITUDE	p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE			c	LEG-SHIP

*** Acoustic Doppler Current Profiler ***

0420	100497	0	ADCP	B Auto Current Prof.	GDC	43-14.52S	147-38.61E	g	SOJN07MV
1146	160497	0	ADCP	E Auto Current Prof.	GDC	39-08.87S	147-13.82E	g	SOJN07MV

*** Integrated Meteorological Acquisition System ***

0205	100497	0	IMET	B Weather Data Coll.	GDC	42-54.22S	147-21.29E	g	SOJN07MV
0600	170497	0	IMET	E Weather Data Coll.	GDC	37-51.75S	144-54.80E	g	SOJN07MV

*** Expendable Bathythermographs ***

0730	100497	0	BTXP	B XBT T-5 t-5\$1.sip	NOAA	43-36.82S	148-19.12E	g	SOJN07MV
0739	100497	0	BTXP	B XBT T-5 t-5\$2.sip	NOAA	43-38.08S	148-20.63E	g	SOJN07MV
0746	100497	0	BTXP	B XBT T-5 t-5\$3.sip	NOAA	43-39.16S	148-19.98E	g	SOJN07MV
0353	110497	0	BTXP	B XBT T-5 t-5\$4.sip	NOAA	41-18.23S	149-02.39E	g	SOJN07MV
0259	130497	0	BTXP	B XBT T-5 t-5\$5.sip	NOAA	39-26.60S	149-31.31E	g	SOJN07MV
0515	140497	0	BTXP	B XBT T-5 t-5\$6.sip	NOAA	38-41.93S	149-55.50E	g	SOJN07MV
0533	140497	0	BTXP	B XBT T-5 t-5\$7.sip	NOAA	38-38.27S	149-55.65E	g	SOJN07MV
0537	150497	0	BTXP	B XBT T-5 t-5\$8.sip	NOAA	38-45.16S	148-44.88E	g	SOJN07MV

#

End Sample Index

SOJN07MV