

*Report and Index of
Underway Marine Geophysical Data*

SOJOURN EXPEDITION

LEG 5

(SOJN05MV)

R/V MELVILLE

(Issued April 1997)

Ports:

Fremantle, Australia (19 February 1997)

to

Hobart, Tasmania (2 March 1997)

Chief Scientist:

David Christie (Oregon State University)

Resident Marine Technician - Ron Comer

Computer Technician - Ron Moe

No Seabeam/UW 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.# 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.

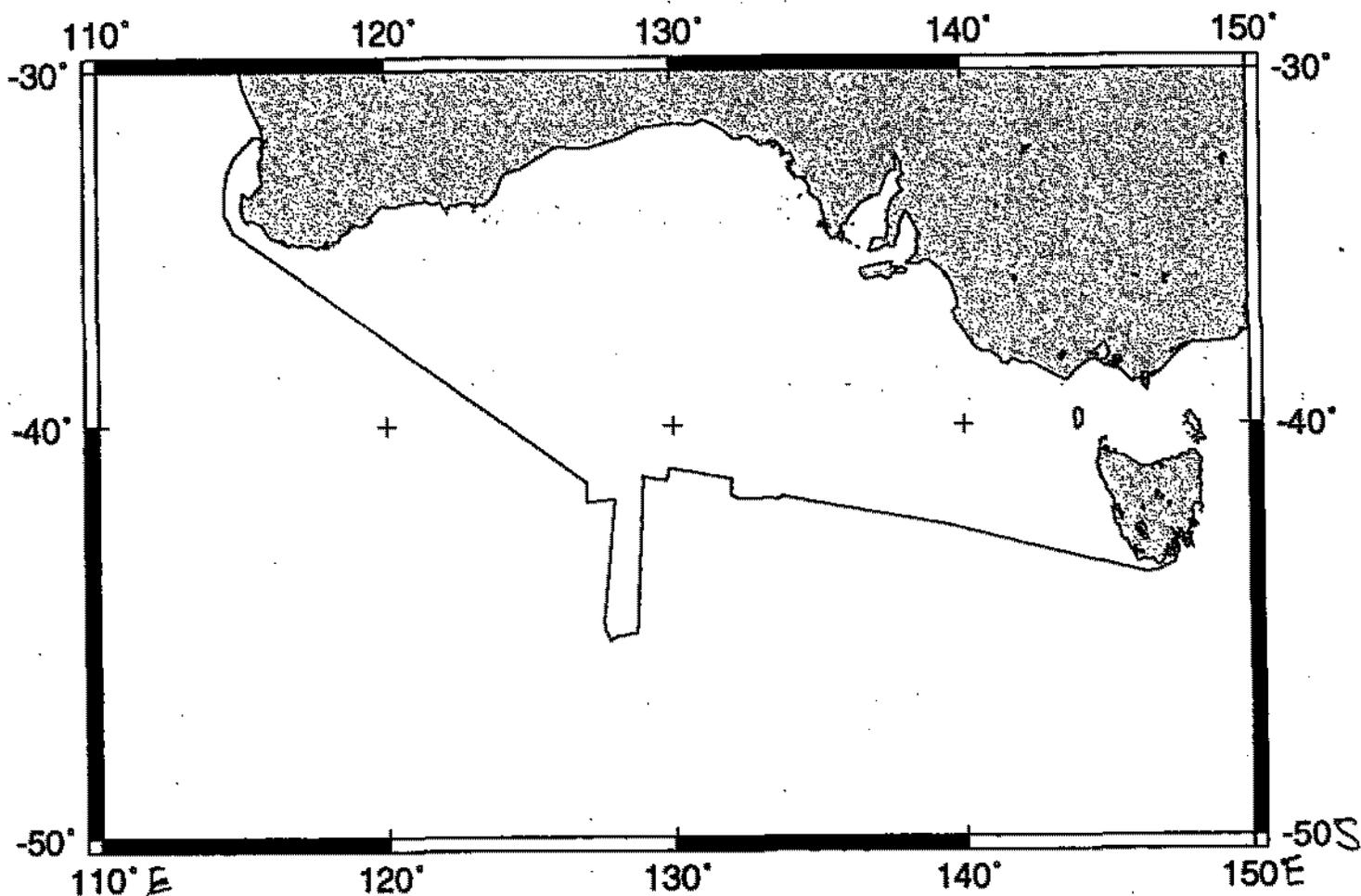
3. Navigation listing with times and positions of fixes and course and speed changes.

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 5

CHIEF SCIENTIST: David Christie, Oregon State University

PORTS: Fremantle, Australia - Hobart, Tasmania

DATES: 19 February - 2 March 1997

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 2406 miles

Magnetics - 1675 miles

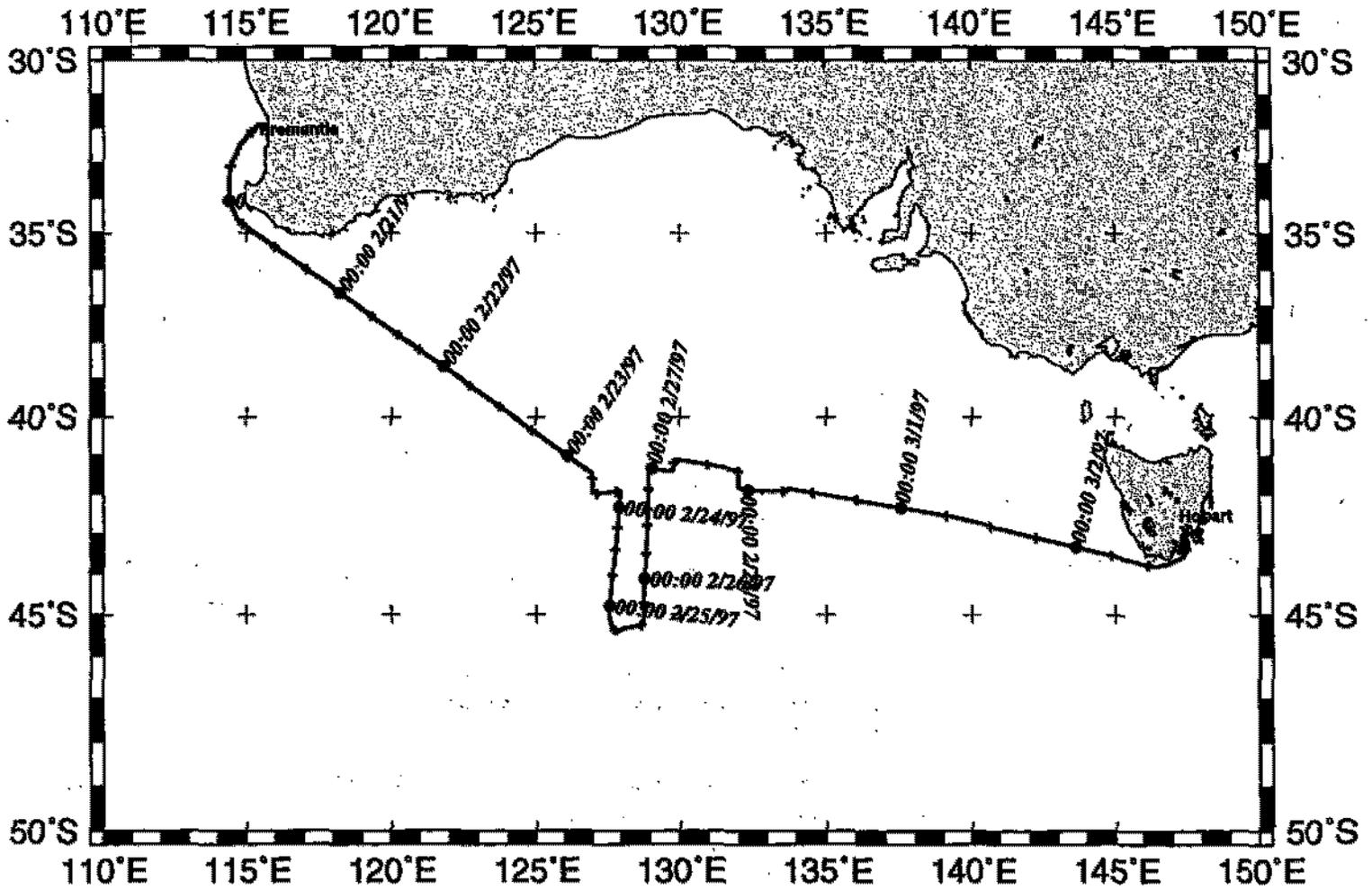
Bathymetry - 2270 miles

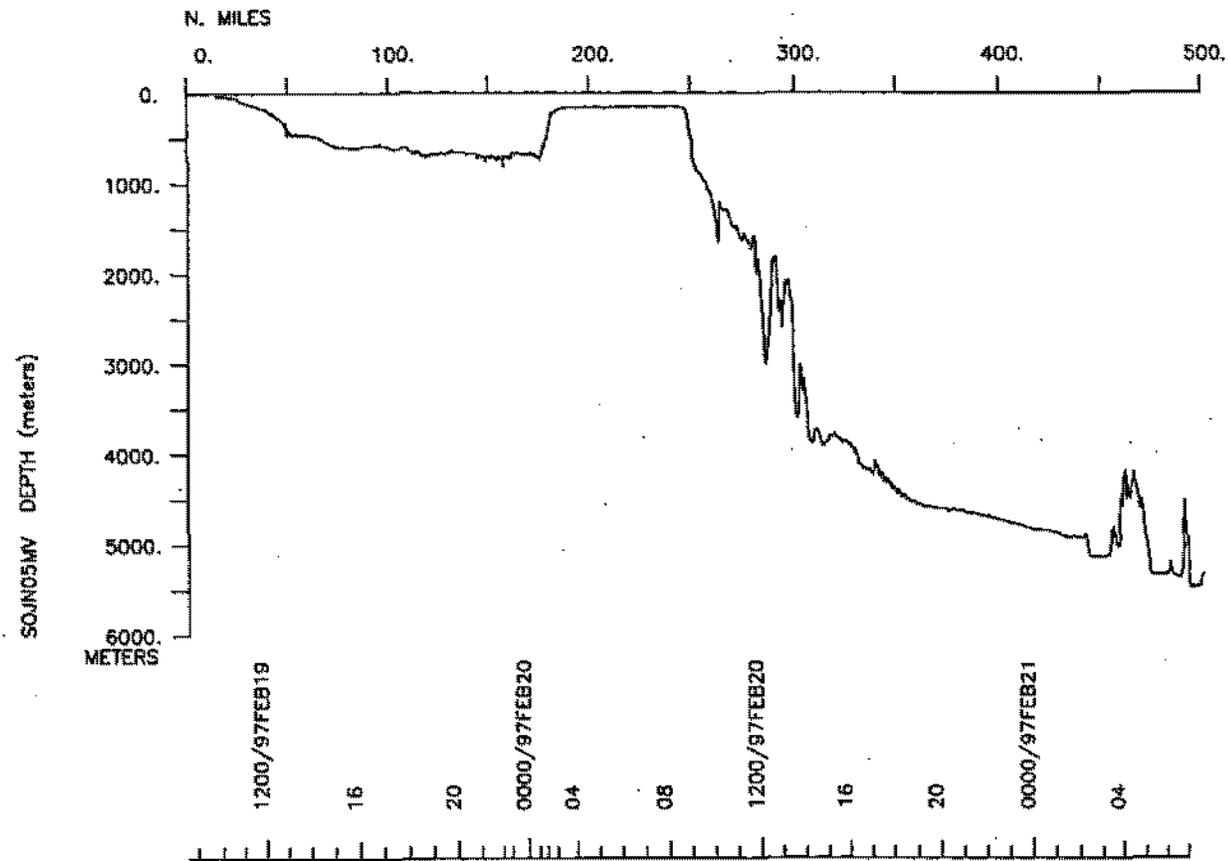
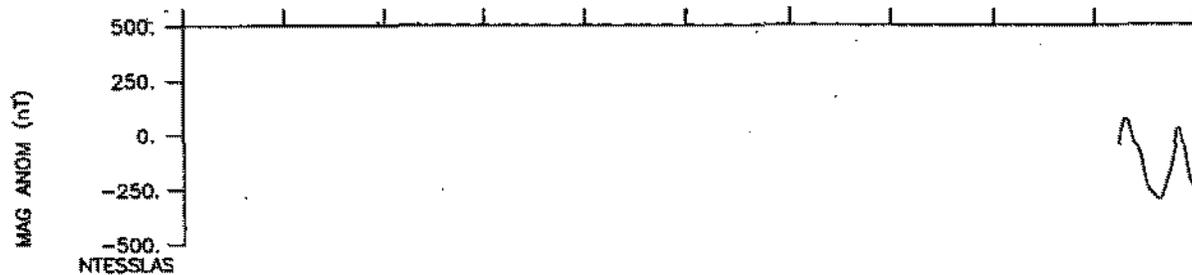
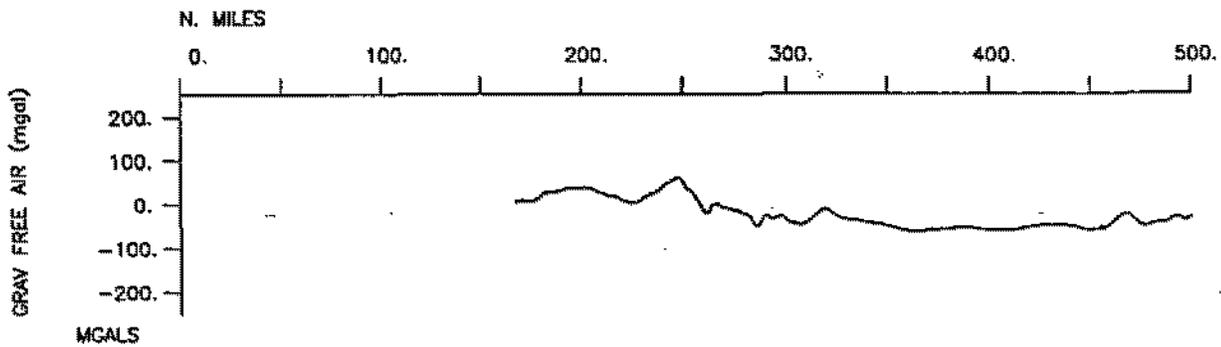
Seismic Reflection - 475 miles

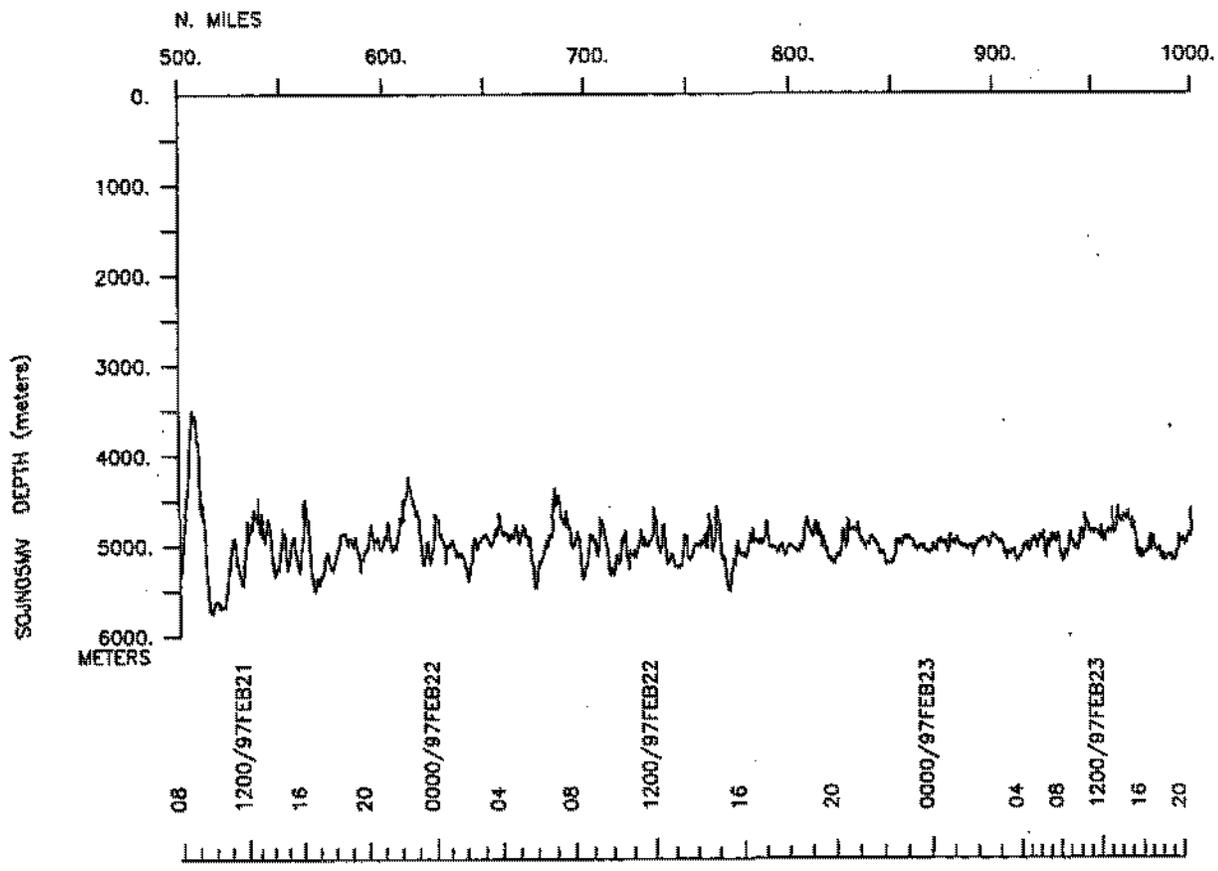
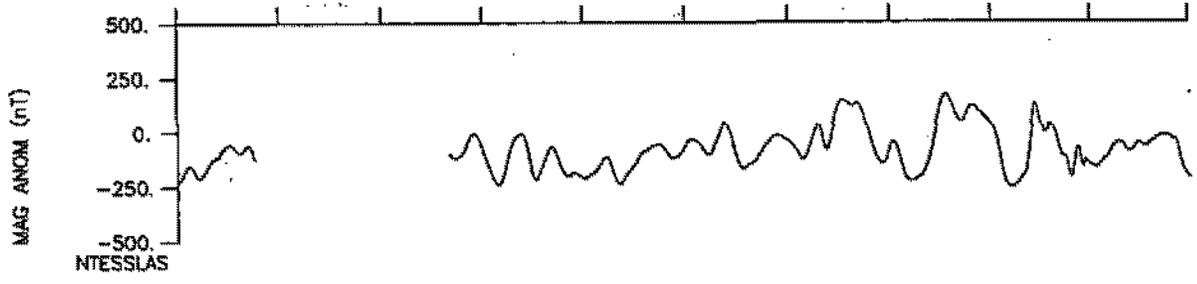
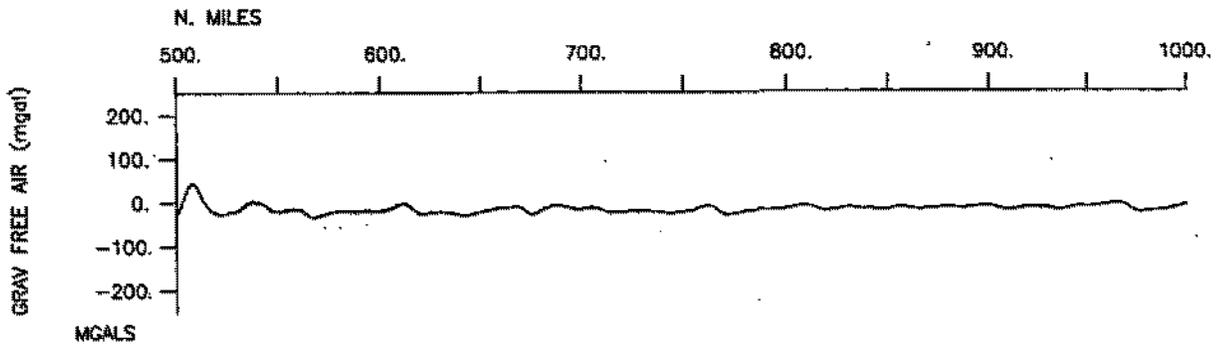
Sea Beam - 2270 miles

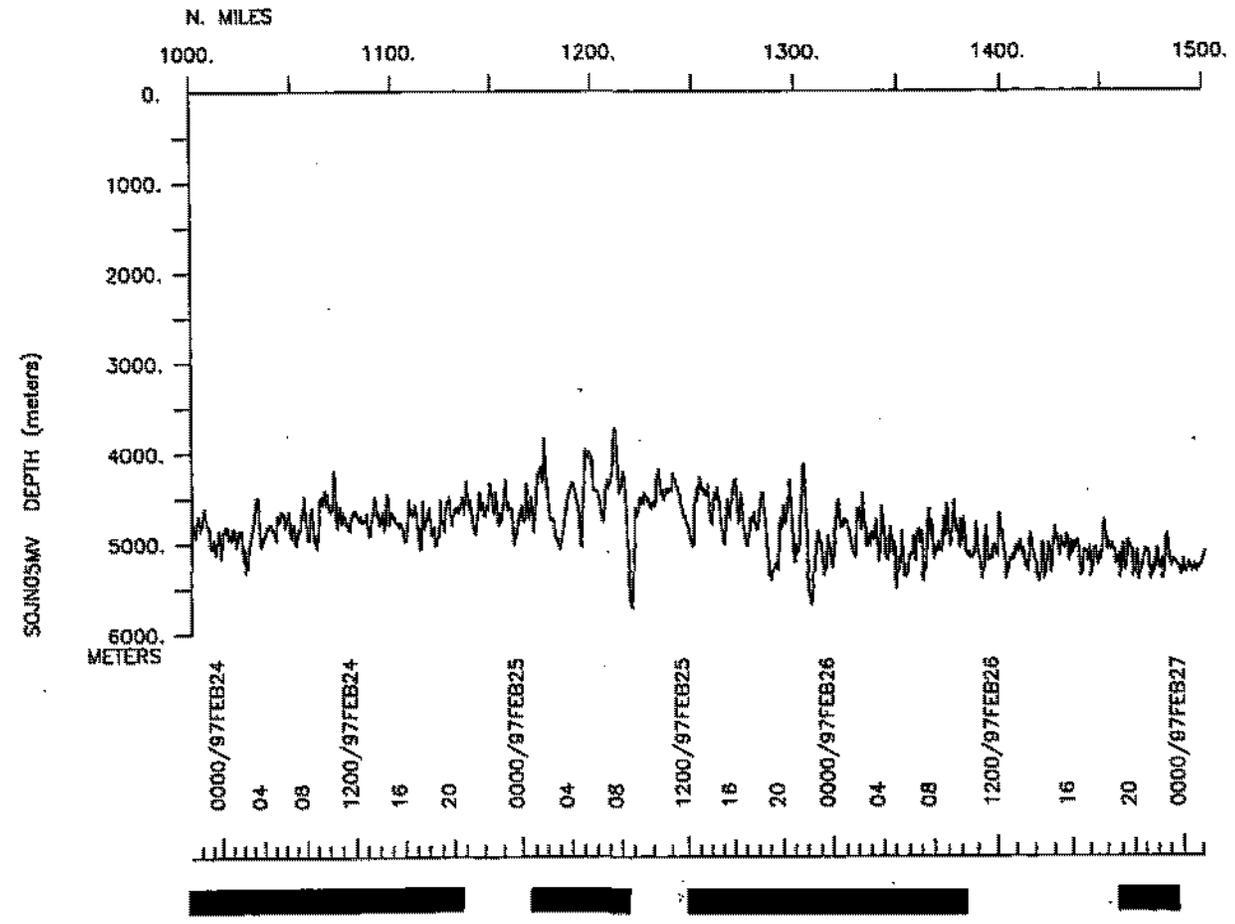
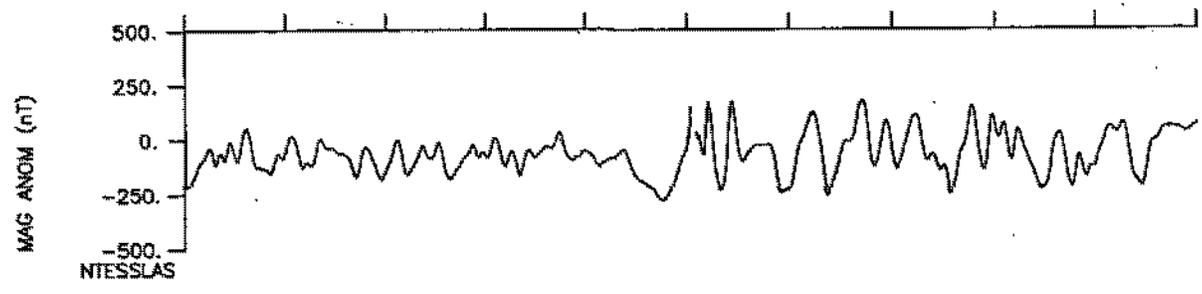
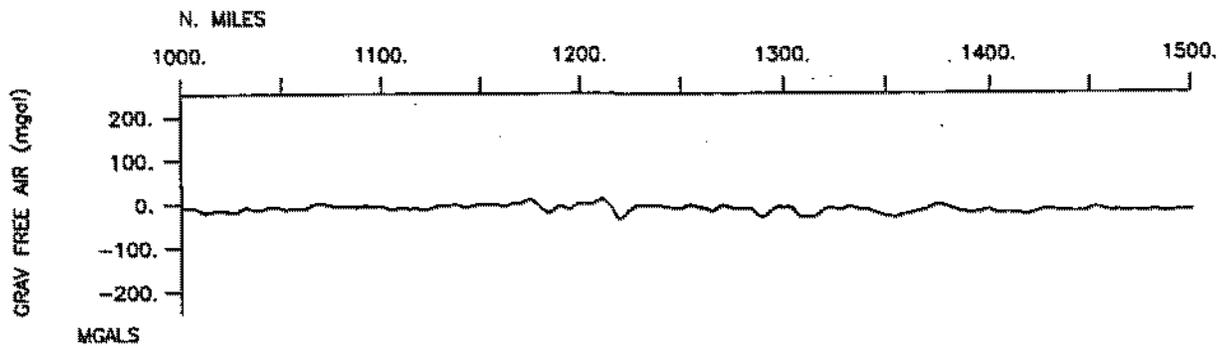
Gravity - 2204 miles

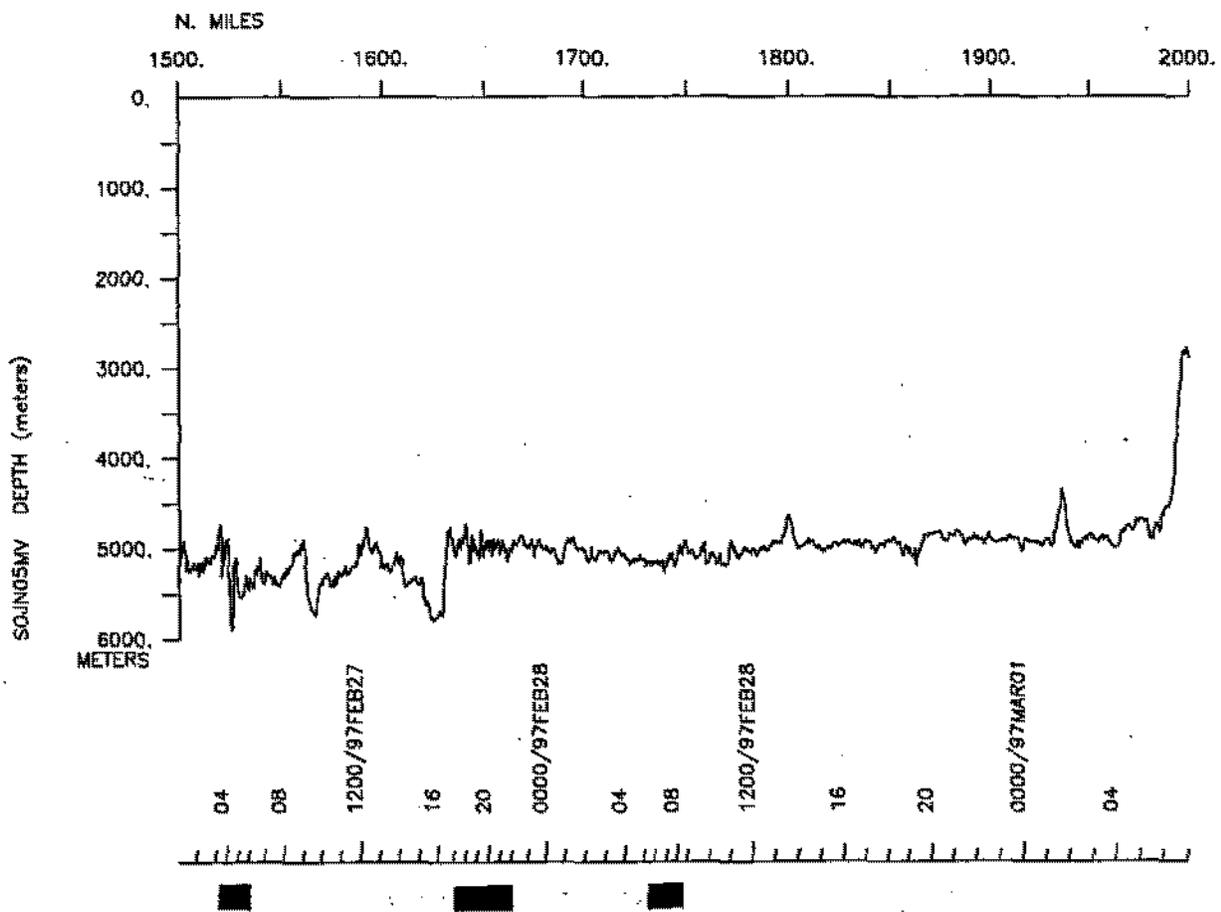
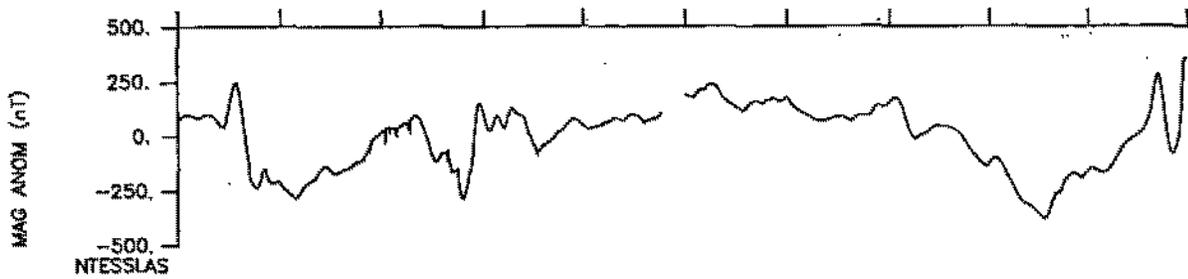
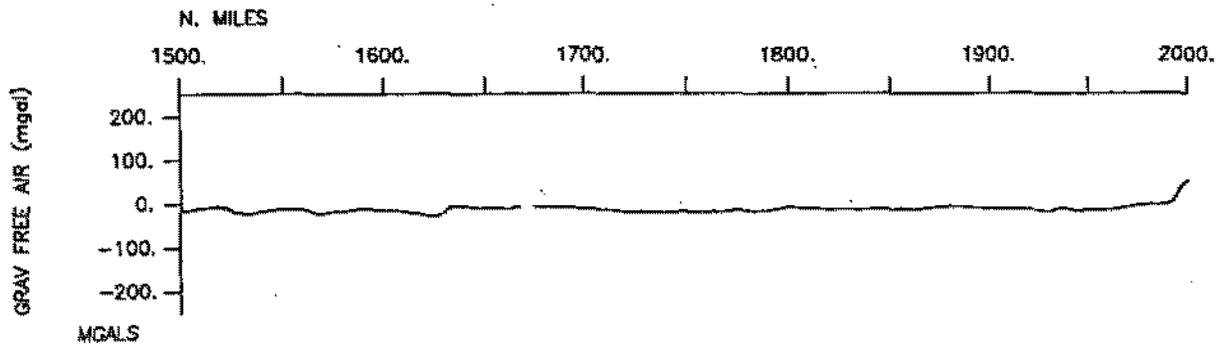
SOJN05MV Track

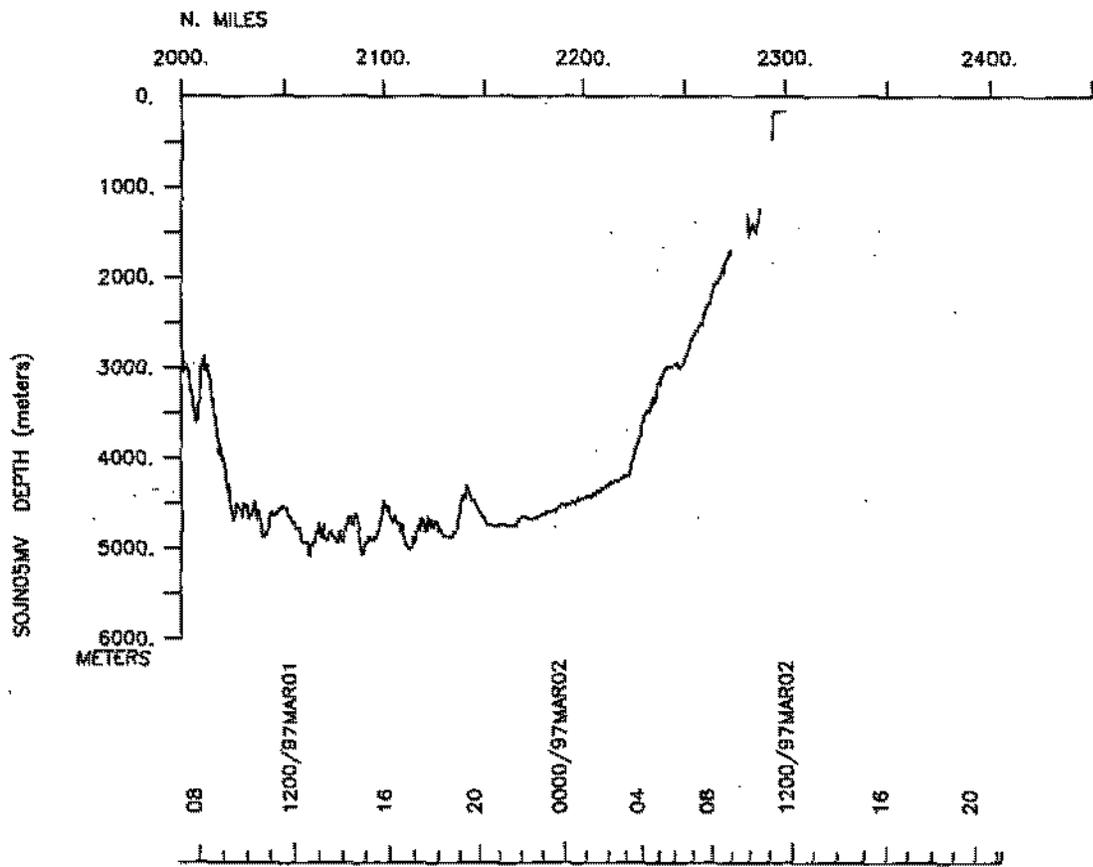
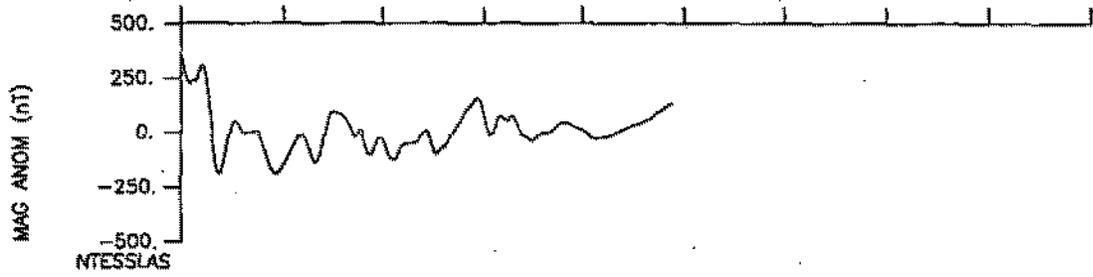
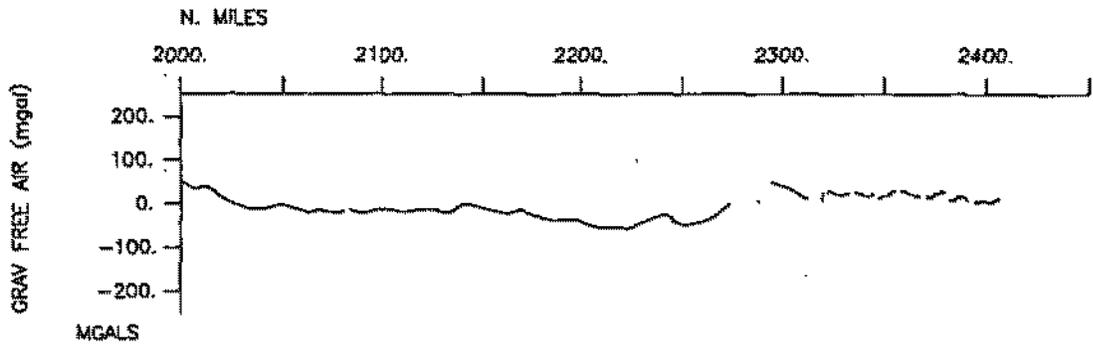












S.I.O. SAMPLE INDEX

SOJOURN EXPEDITION

LEG 5

(SOJN05MV)

R/V Melville

(Issued May 1997)

Ports:

Fremantle, Australia (19 February 1997)
to
Hobart, Tasmania (2 March 1997)

Chief Scientist:

David Christie , Oregon State University

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 cods are available from the Geological Data Center.)

GDC CRUISE I.D.# 269

*** Ports ***

0830	190297	LGPT B	Fremantle, Australia	32-03.00S	115-45.00E	f	SOJN05MV
2122	020397	LGPT E	Hobart, Tasmania	42-53.00S	147-20.00S	f	SOJN05MV

*** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS OSU	Christie, Dr. D.M.	Chief Scientist	Oregon State Univ.	SOJN05MV
PESP UWA	West, Dr. B.	Scientist	U. of Washington	SOJN05MV
PECT STS	Moe, R.L.	Computer Engineer	Scripps Institution	SOJN05MV
PERT STS	Comer, R.L.	Resident Tech.	Scripps Institution	SOJN05MV
PEET HIG	Hervig, W.C.	Electronics Tech.	Univ. of Hawaii	SOJN05MV
PEAT HIG	Gravati, D.	Air Gun Tech.	Univ. of Hawaii	SOJN05MV

*** 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	DDMMYY	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 ***

0830	190297	0	LBUW B	Underway Watch Log	GDC	32-02.81S	115-44.76E	g	SOJN05MV
2122	020397	0	LBUW E	Underway watch log	GDC	42-53.04S	147-20.18E	g	SOJN05MV

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

2200	190297	0	MBSR B	vbeam&sidescan r-01	GDC	33-52.68S	114-25.04E	g	SOJN05MV
1145	020397	0	MBSR E	vbeam&sidescan r-01	GDC	43-46.42S	146-04.49E	g	SOJN05MV

*** Magnetics (Earth Total Field) Records ***

0358	200297	0	MGRA B	Magnetics Roll-1	GDC	34-26.51S	114-35.48E	g	SOJN05MV
0542	020397	0	MGRA E	Magnetics Roll-1	GDC	43-33.10S	144-48.04E	g	SOJN05MV

*** Continuous Recorded Gravity ***

0830	190297	0	GVCR B	Gravity	GDC	32-02.81S	115-44.76E	g	SOJN05MV
2122	020397	0	GVCR E	Gravity	GDC	42-53.04S	147-20.18E	g	SOJN05MV

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

*** Seismic Reflection Records ***

0550	230297	0	SPRF	B 2Sec AG chan.1 r-01	GDC	41-34.68S	127-00.04E	g		SOJN05MV
0827	280297	0	SPRF	E 2Sec AG chan.1 r-01	GDC	41-51.00S	133-47.44E	g		SOJN05MV
0550	230297	0	SPRF	B 2Sec AG chan.3 r-01	GDC	41-34.68S	127-00.04E	g		SOJN05MV
0827	280297	0	SPRF	E 2Sec AG chan.3 r-01	GDC	41-51.00S	133-47.44E	g		SOJN05MV

*** Expendable Bathythermographs ***

0449	210297	0	BTXP	XBT T-5 t-5\$1.sip	GDC	37-11.19S	119-06.74E	g		SOJN05MV
0522	220297	0	BTXP	XBT T-5 t-5\$2.sip	GDC	39-06.91S	122-34.41E	g		SOJN05MV
0540	220297	0	BTXP	XBT T-5 t-5\$3.sip	GDC	39-08.40S	122-37.04E	g		SOJN05MV
0550	220297	0	BTXP	XBT T-5 t-5\$4.sip	GDC	39-09.18S	122-38.42E	g		SOJN05MV
0712	230297	0	BTXP	XBT T-5 t-5\$5.sip	GDC	41-41.58S	127-00.17E	g		SOJN05MV
0728	230297	0	BTXP	XBT T-5 t-5\$6.sip	GDC	41-42.94S	127-00.12E	g		SOJN05MV
0734	230297	0	BTXP	XBT T-5 t-5\$7.sip	GDC	41-43.46S	127-00.10E	g		SOJN05MV
0342	240297	0	BTXP	XBT T-5 t-5\$8.sip	GDC	42-38.64S	127-54.06E	g		SOJN05MV
0257	270297	0	BTXP	XBT T-5 t-5\$9.sip	GDC	41-25.44S	129-40.70E	g		SOJN05MV
0346	010397	0	BTXP	XBT T-5 t-5\$10.sip	GDC	42-28.31S	138-30.01E	g		SOJN05MV
0356	010397	0	BTXP	XBT T-5 t-5\$11.sip	GDC	42-28.64S	138-32.69E	g		SOJN05MV
0229	020397	0	BTXP	XBT T-5 t-5\$12.sip	GDC	43-26.53S	144-12.15E	g		SOJN05MV

#

End Sample Index

SOJN05MV

SAMPLE INDEX SOJOURN 05

PECS	OSU	Christie, Dr. D.M.	Chief Scientist	Oregon State Univ.
PESP	UWA	West, Dr. B.	Scientist	Univ. of Wash.
PECT	STS	Moe, R.L.	Computer Engineer	SIO
PERT	STS	Comer, R.L.	Resident Tech.	SIO
PEET	HIG	Hervig, W.C.	Electronics Tech.	Univ. of Hawaii
PEAT	HIG	Gravati, D.	Air Gun Tech.	Univ. of Hawaii
0830	190297	8 LGPT B	Freemantle, Aust.	SJRN05MV
2122	020397	10 LGPT E	Hobart, Tasmania	SJRN05MV
0358	200297	MGRA B	Magnetics Roll-1	GDC
0542	020397	MGRA E	Roll-1	GDC
0830	190297	GVCR B	Gravity	GDC
2122	020397	GVCR E	Gravity	GDC
2200	190297	MBSR B	V. Beam Sidescan R-1	GDC
1145	020397	MBSR E	R-1	GDC
0550	230297	SPRF B	Airgun Channel 1	OSU
0827	280297	SPRF E	2 Sec. Swp. Roll-1	OSU
0550	230297	SPRF B	Airgun Channel 3	OSU
0827	280297	SPRF E	2 Sec. Swp. Roll-1	OSU
0830	190297	LBUW B	Underway Watch Log	GDC
2122	020397	LBUW E	Pages 1-11	GDC