

**REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA**

GLORIA EXPEDITION

LEG 0 - Test Trip
=====

R/V Melville

(Issued July 1993)

San Diego, California (26 September 1992)
to
San Diego, California (1 October 1992)

Chief Scientist:

Christian de Moustier (Scripps Institution of Oceanography)

Resident Marine Technician - Seth Mogk

Computer Technician - Ron Moe

Sea Beam/Underway Processor - Stuart M. Smith

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

Data Collection and Processing Funded by:
General UC Funds and Naval Ocean Systems Center

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.
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Geological Data Center, Scripps Institution of Oceanography,
La Jolla, California 92093.

GDC Cruise I.D.# 261

INFORMAL 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 anomaly 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, CA 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 (35mm flowfilm) or Xerox 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 1.2"/degree scale trackplots.
 - b) Copies of archived 8"/degree scale SeaBeam depth 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.

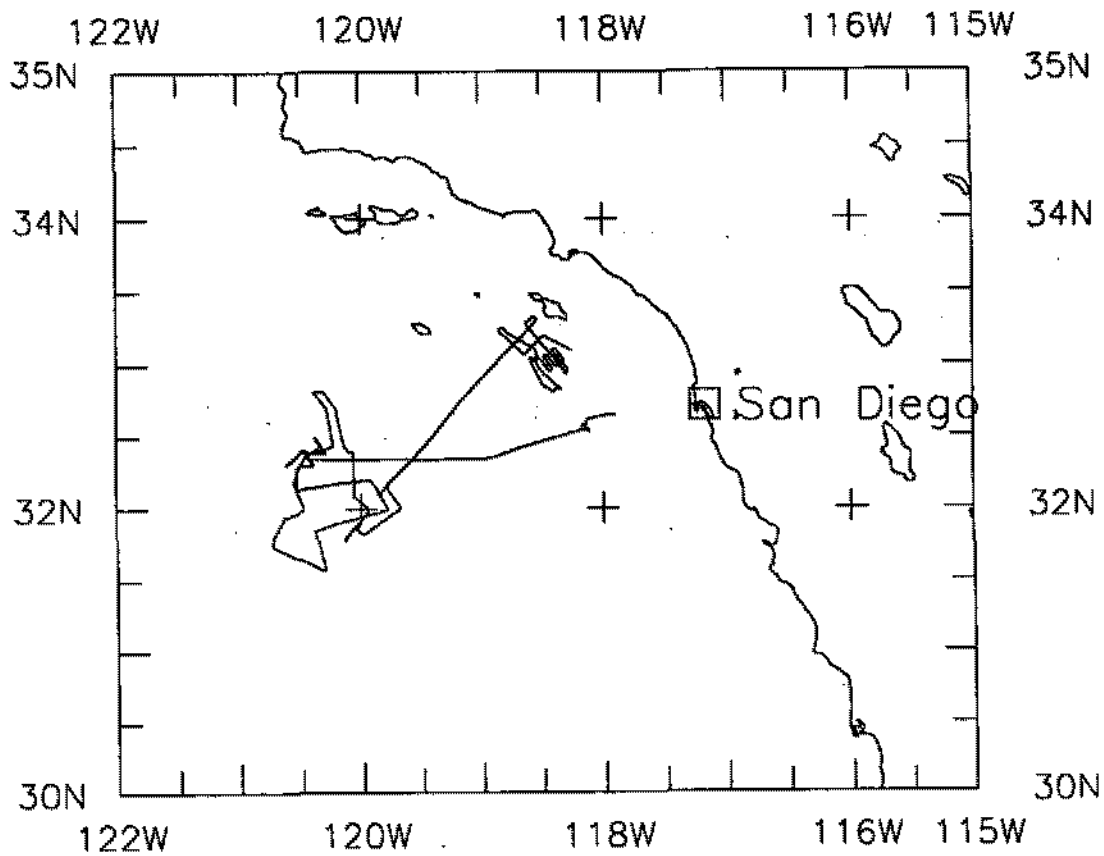
SeaBeam 2000 Data Collection

This was a short test cruise prior to Gloria Expedition with testing of the Sea Beam 2000 the main purpose rather than scientific data collection.

A survey was conducted for M. Stevenson (NOSC) northeast of San Clemente Island between 0500Z-1600Z/30Sep92.

The Sea Beam data remain proprietary to the SIO Shipboard Technical Support Group.

July 1993



GLORIA LEG 0 (GLOROOMV)
 Test Trip (GLOROOMV)



GLORIA EXPEDITION LEG 0 - Test Trip

CHIEF SCIENTIST: Christian de Moustier, SIO

PORTS: San Diego - San Diego, Calif.

DATES: 26 September - 1 October 1992

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 860 miles

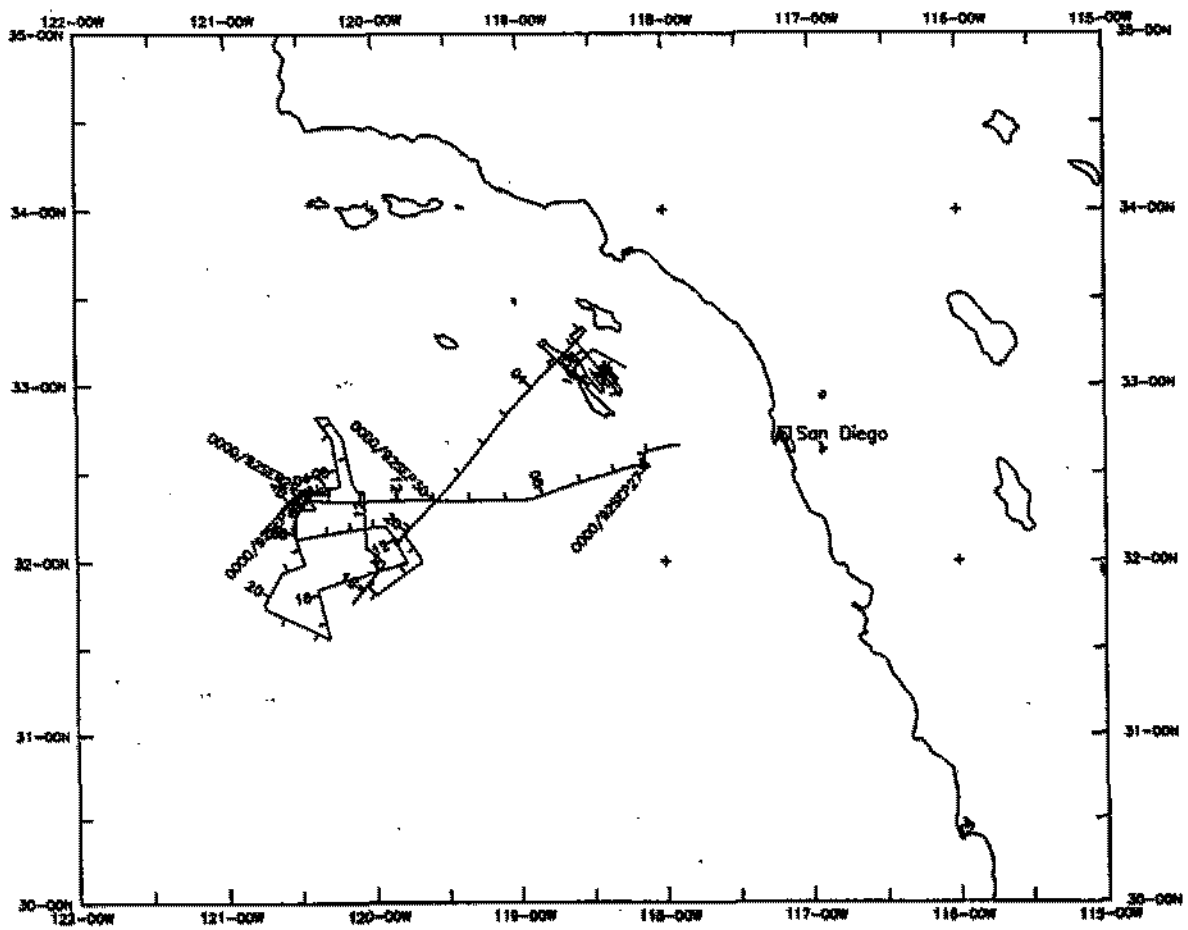
Magnetics - 290 miles

Bathymetry - 645 miles

Seismic Reflection - 190 miles

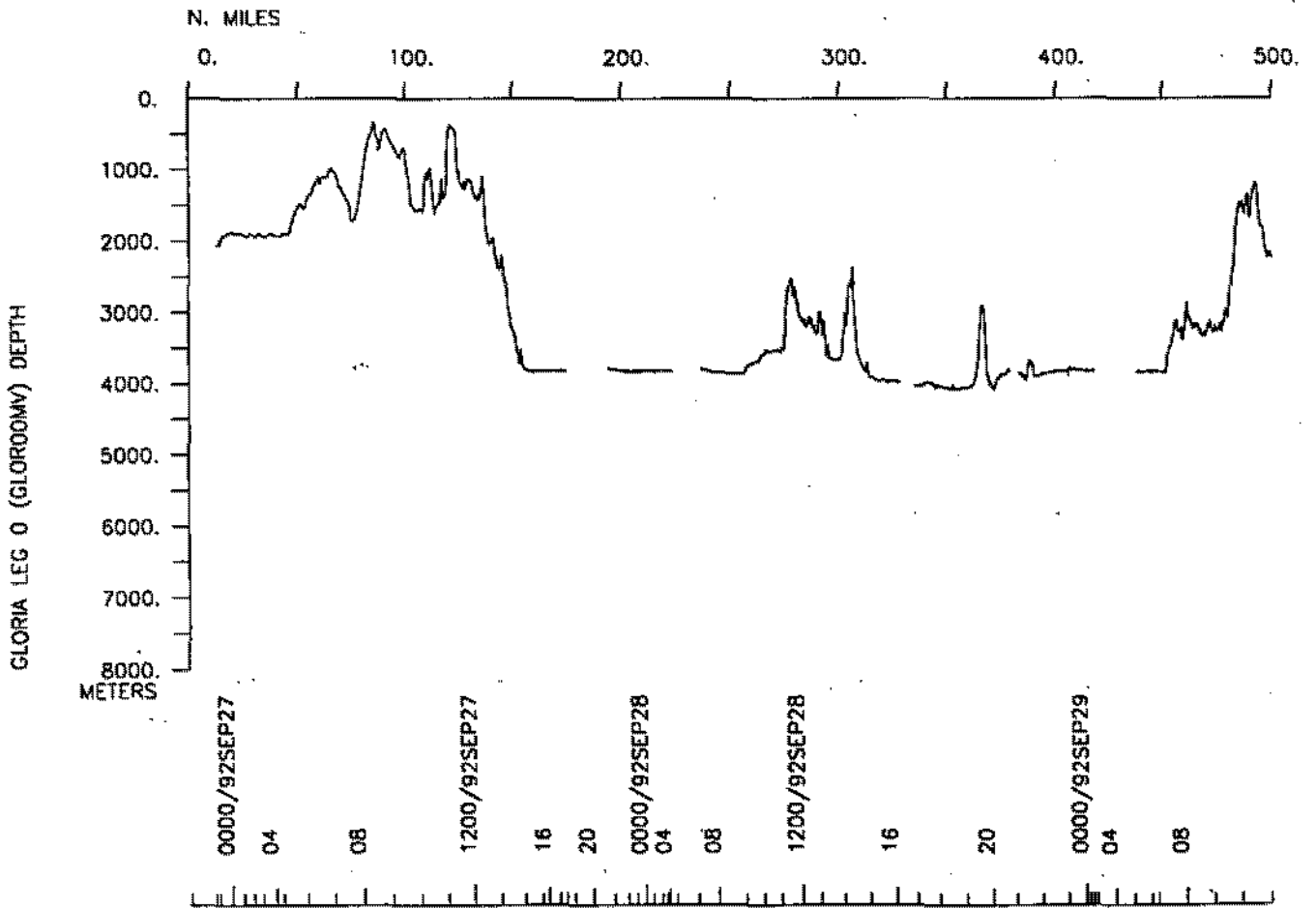
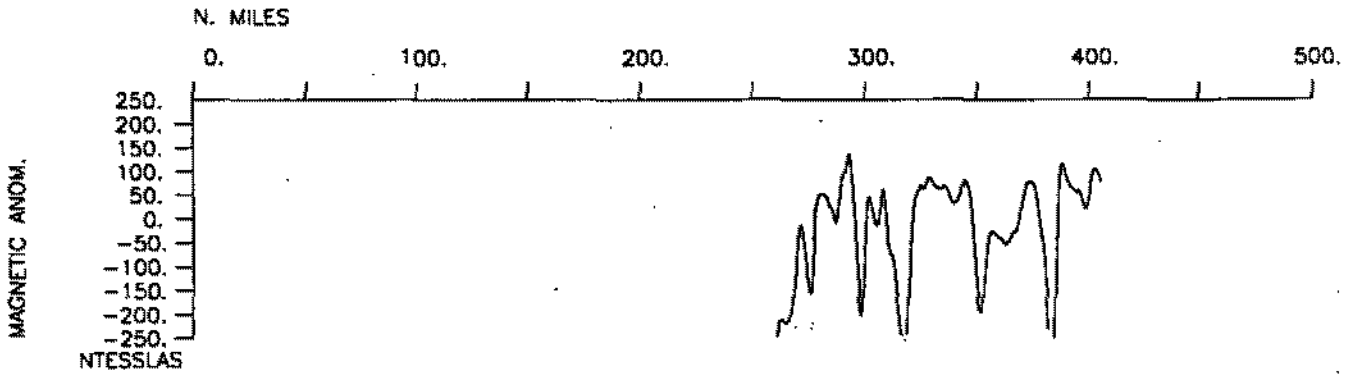
Sea Beam - 645 miles

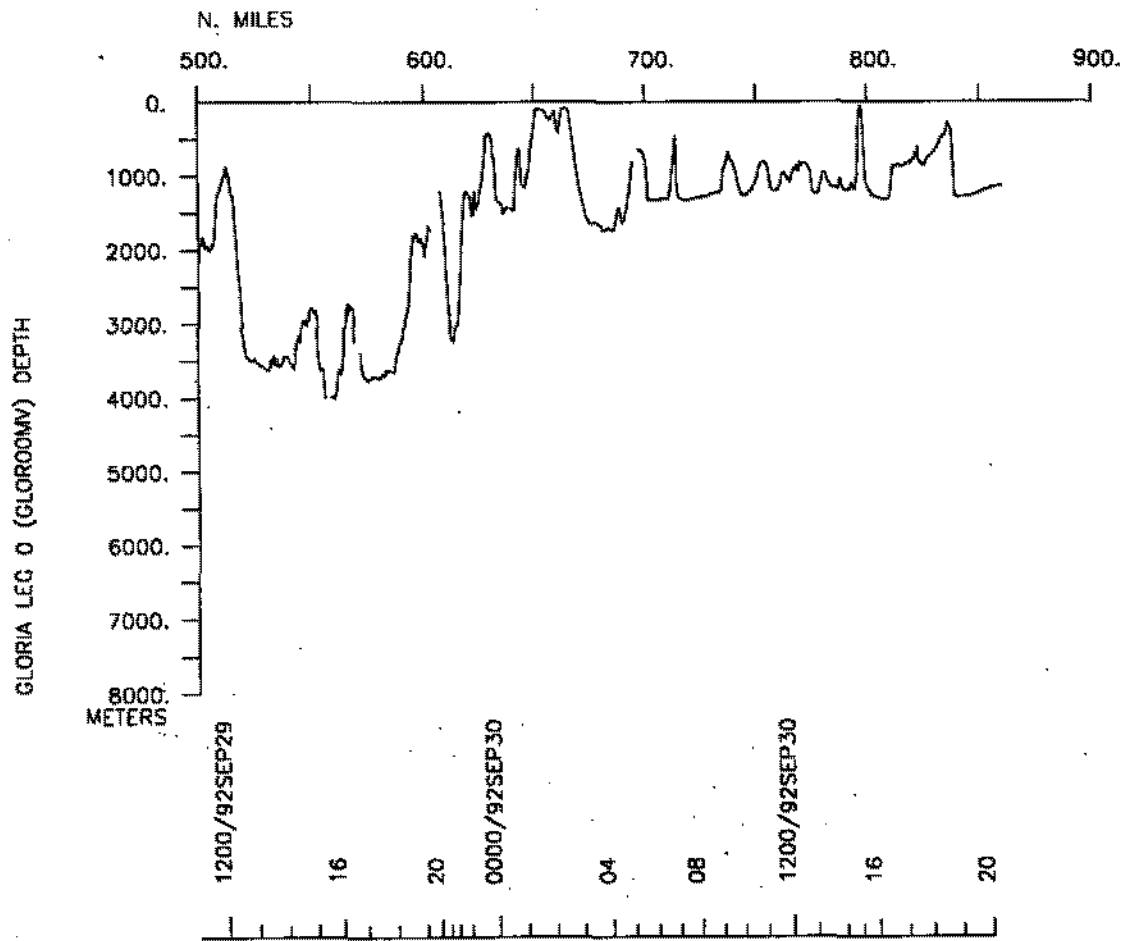
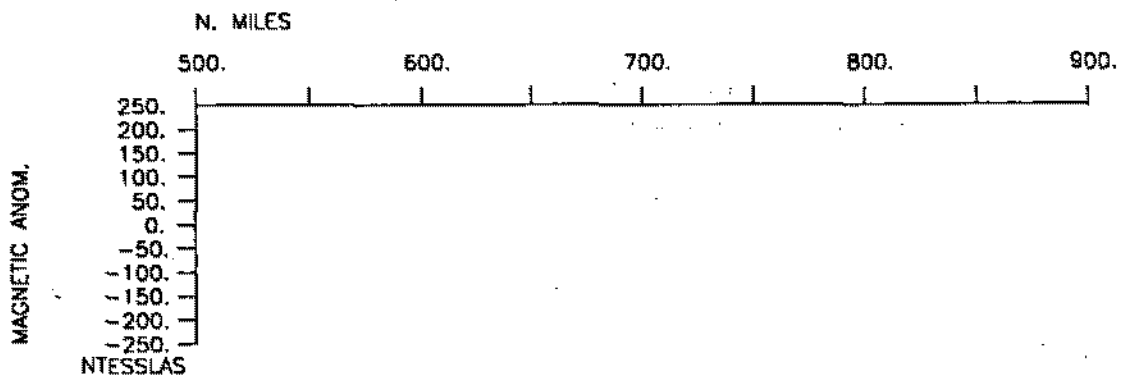
Gravity - none collected



GLORIA LEG 0 (GLOR00MV) Test Trip

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S.I.O. SAMPLE INDEX

(Issued July 1993)

GLORIA EXPEDITION

Leg 0

R/V Melville

San Diego, California (26 September 1992)
to
San Diego, California (1 October 1992)

Chief Scientist:

Christian de Moustier (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 further computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

GDC Cruise I.D.# 261

**** Ports ***

1500	260992	0	LGPT B	San Diego, Calif.	32-43.00N	117-11.00W	f	GLOROOMV
0130	011092	0	LGPT E	San Diego, Calif.	33-43.00N	117-11.00W	f	GLOROOMV

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS MPL	deMoustier, C.	Chief Scientist	Scripps Institution	GLOROOMV
PESP SIX	Baldessare, T.	Acoustic Eng	Sea Beam Instr	GLOROOMV
PESP SIX	Capel, J.	New Prod Mgr	Sea Beam Instr	GLOROOMV
PECT STS	Charters, J.	Computer tech	Scripps Institution	GLOROOMV
PEST GBN	Cowls, S.	Engineer	United Kingdom	GLOROOMV
PESP STS	Crampton, P.	Geophys tech	Scripps Institution	GLOROOMV
PESP SIX	Finney, S.	Engineer	Precision Filters	GLOROOMV
PESP SIX	Glow, S.	Systems engr	Sea Beam Instr	GLOROOMV
PESP SIX	Goodwin, W.	Cust support	Sea Beam Instr	GLOROOMV
PEET STS	Heckman, E.	Electronics tech	Scripps Institution	GLOROOMV
PEET STS	Hubenka, F.	Electronics tech	Scripps Institution	GLOROOMV
PESP MPL	Lonsdale, P.	Scientist	Scripps Institution	GLOROOMV
PEVL SIO	Mattioda, J.	Volunteer	Scripps Institution	GLOROOMV
PERT STS	Mogk, S.	Resident tech	Scripps Institution	GLOROOMV
PECT STS	Moore, M.	Computer tech	Scripps Institution	GLOROOMV
PEST IGP	Ridgeway, J.	Grad student	Scripps Institution	GLOROOMV
PEET STS	Skinner, J.	Electronics tech	Scripps Institution	GLOROOMV
°EBP STS	Smith, S.	Sea Beam operator	Scripps Institution	GLOROOMV
ESP USN	Stevenson, M.	Scientist	U.S. Navy	GLOROOMV

**** 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 ***										
1500	250992	0	LBUW	B Underway watch log	GDC	32-39.35N	117-54.23W	g		GLOR00MV
2026	300992	0	LBUW	E Underway watch log	GDC	33-06.00N	118-15.69W	g		GLOR00MV
#*** Sea Beam Records (vertical beam and side scan) ***										
2332	260992	0	MBSR	B seabeam testing	GDC	32-33.43N	118-08.77W	g		GLOR00MV
2026	300992	0	MBSR	E seabeam testing	GDC	33-06.00N	118-15.69W	g		GLOR00MV
2237	260992	0	MBSR	B v.beam&sscan r-01	GDC	32-37.28N	118-07.94W	g		GLOR00MV
0429	300992	0	MBSR	E v.beam&sscan r-01	GDC	33-03.64N	118-49.63W	g		GLOR00MV
0430	300992	0	MBSR	B v.beam&sscan r-02	GDC	33-03.80N	118-49.45W	g		GLOR00MV
2026	300992	0	MBSR	E v.beam&sscan r-02	GDC	33-06.00N	118-15.69W	g		GLOR00MV
#*** Echo Sounder Records ***										
0915	280992	0	DPSV	B 3.5 pdr survey	GDC	32-10.03N	120-16.91W	g		GLOR00MV
2300	280992	0	DPSV	E 3.5 pdr survey	GDC	32-15.68N	120-31.77W	g		GLOR00MV
0514	300992	0	DPSV	B 3.5 pdr survey	GDC	33-07.51N	118-44.82W	g		GLOR00MV
1212	300992	0	DPSV	E 3.5 pdr survey	GDC	33-00.90N	118-20.48W	g		GLOR00MV
0929	280992	0	DPR3	B 3.5 khz roll 1	GDC	32-10.37N	120-14.44W	g		GLOR00MV
2000	290992	0	DPR3	E 3.5 khz roll 1	GDC	32-10.13N	119-47.11W	g		GLOR00MV
0503	300992	0	DPR3	B 3.5 khz roll 2	GDC	33-06.61N	118-45.88W	g		GLOR00MV
1154	300992	0	DPR3	E 3.5 khz roll 2	GDC	33-01.82N	118-18.99W	g		GLOR00MV

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

*** Seismic Reflection Records ***

1151	280992	0	SPSV	B seismic refl survey	GDC	32-08.56N	119-52.49W	g		GLOR00MV
2300	280992	0	SPSV	E seismic refl survey	GDC	32-15.68N	120-31.77W	g		GLOR00MV
0514	300992	0	SPSV	B seismic refl survey	GDC	33-07.51N	118-44.82W	g		GLOR00MV
1212	300992	0	SPSV	E seismic refl survey	GDC	33-00.90N	118-20.48W	g		GLOR00MV
1230	280992	0	SPRF	B airgun fast r-01	GDC	32-05.04N	119-50.21W	g		GLOR00MV
2310	280992	0	SPRF	E airgun fast r-01	GDC	32-16.67N	120-31.37W	g		GLOR00MV
0513	300992	0	SPRF	B airgun fast r-02	GDC	33-07.42N	118-44.90W	g		GLOR00MV
1010	300992	0	SPRF	E airgun fast r-02	GDC	32-56.69N	118-18.65W	g		GLOR00MV
1014	300992	0	SPRF	B airgun fast r-03	GDC	32-56.47N	118-18.13W	g		GLOR00MV
1155	300992	0	SPRF	E airgun fast r-03	GDC	33-01.69N	118-19.17W	g		GLOR00MV
1230	280992	0	SPRS	B airgun slow r-01	GDC	32-05.04N	119-50.21W	g		GLOR00MV
2310	280992	0	SPRS	E airgun slow r-01	GDC	32-16.67N	120-31.37W	g		GLOR00MV
0513	300992	0	SPRS	B airgun slow r-02	GDC	33-07.42N	118-44.90W	g		GLOR00MV
1155	300992	0	SPRS	E airgun slow r-02	GDC	33-01.69N	118-19.17W	g		GLOR00MV

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

0800	280992	0	MGSV	B magnetic survey	GDC	32-09.96N	120-32.14W	g		GLOR00MV
2300	280992	0	MGSV	E magnetic survey	GDC	32-15.68N	120-31.77W	g		GLOR00MV
0800	280992	0	MGRA	B magnetometer r-01	GDC	32-09.96N	120-32.14W	g		GLOR00MV
2300	280992	0	MGRA	E magnetometer r-01	GDC	32-15.68N	120-31.77W	g		GLOR00MV

*** Expendable Bathythermographs ***

2303	260992	0	btxp	xbt 1	GDC	32-35.90N	118-08.39W	g		GLOR00MV
1345	270992	0	btxp	xbt 2	GDC	32-20.76N	120-15.55W	g		GLOR00MV
0650	300992	0	btxp	xbt 3	GDC	33-19.76N	118-33.48W	g		GLOR00MV
1900	300992	0	btxp	xbt 4	GDC	33-08.18N	118-34.08W	g		GLOR00MV

*** End sample index.

GLOR00MV