

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

ALARCON EXPEDITION

LEG 2

(ALAR02RR)

R/V Revelle

(Issued January 1999)

Ports:

Pichilingue, Mexico (26 October 1998)

to

San Diego, California (3 November 1998)

Chief Scientist:

**James Hawkins, Scripps Institution
email: jhawkins@ucsd.edu**

Resident Marine Technician - Bob Wilson

Computer Technician - Dan Jacobson

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

**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.# 281

**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.

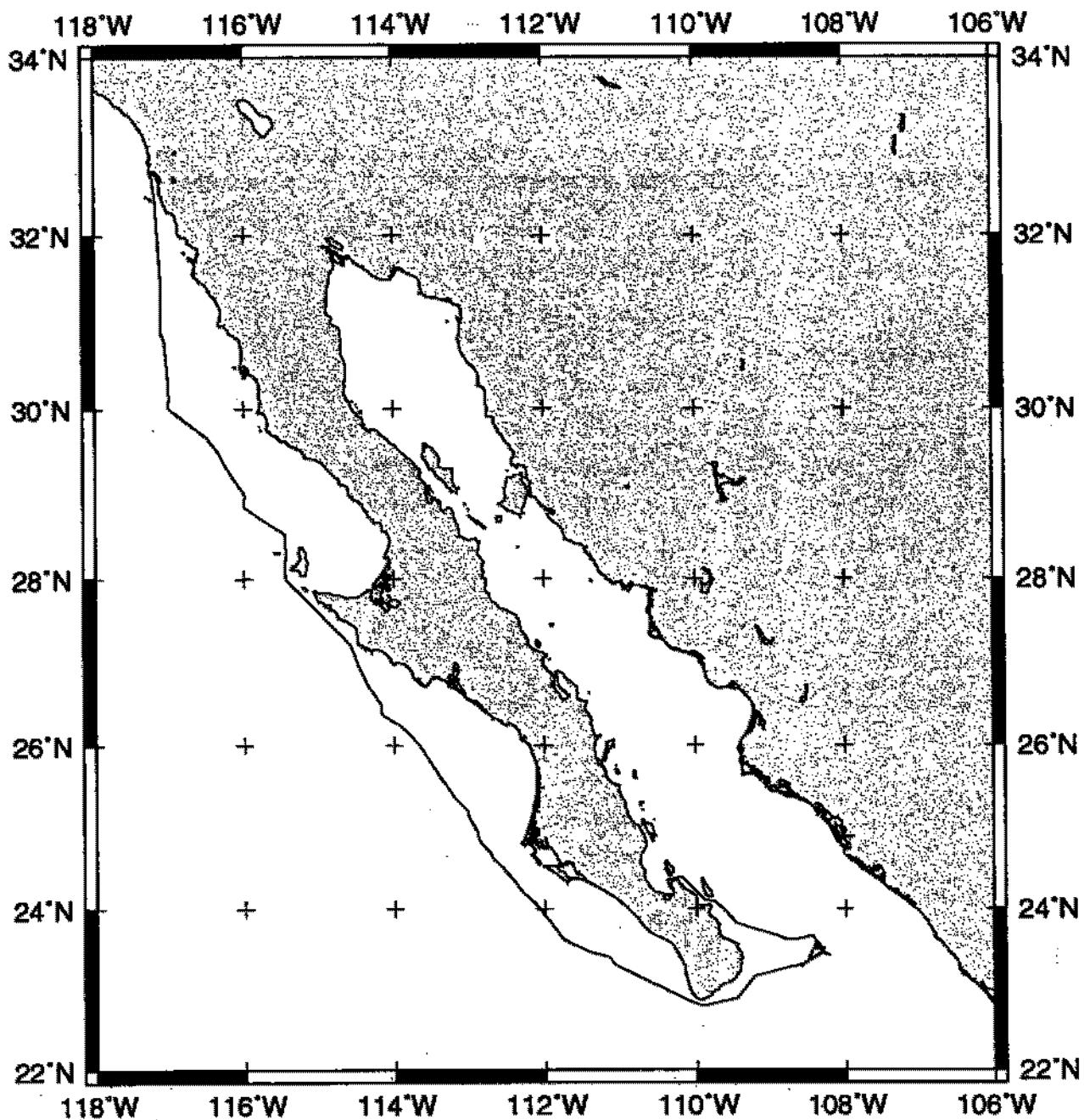
Track Charts - annotated with dates and hour ticks.

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 collected on the leg.

NOTE: One or more of the underway data types may not be collected on a given 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 via ftp or on 8mm (Exabyte) and 4mm (DAT) magnetic tape:
 - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
 - b) Above data in a single merged ASCII file in the MGD77 Exchange Format.
 - c) SeaBeam depth data (binary, Sun byte order)
 - 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) 3.5 kHz and 12 kHz echosounder records.
 - d) Seismic reflection profiler records.
3. Navigation listing with times and positions of fixes and course and speed changes.
4. Custom plots in Mercator projection:
 - a) Track plots.
 - b) SeaBeam depth contour plots.
 - c) Depth, magnetic or gravity values printed or profiled along track.



ALARCON EXPEDITION LEG 2 (ALAR02RR)

CHIEF SCIENTIST: James Hawkins, Scripps Institution

PORTS: Pichilingue, Mexico - San Diego, Calif.

DATES: 26 October - 03 November 1998

SHIP: R/V Revelle

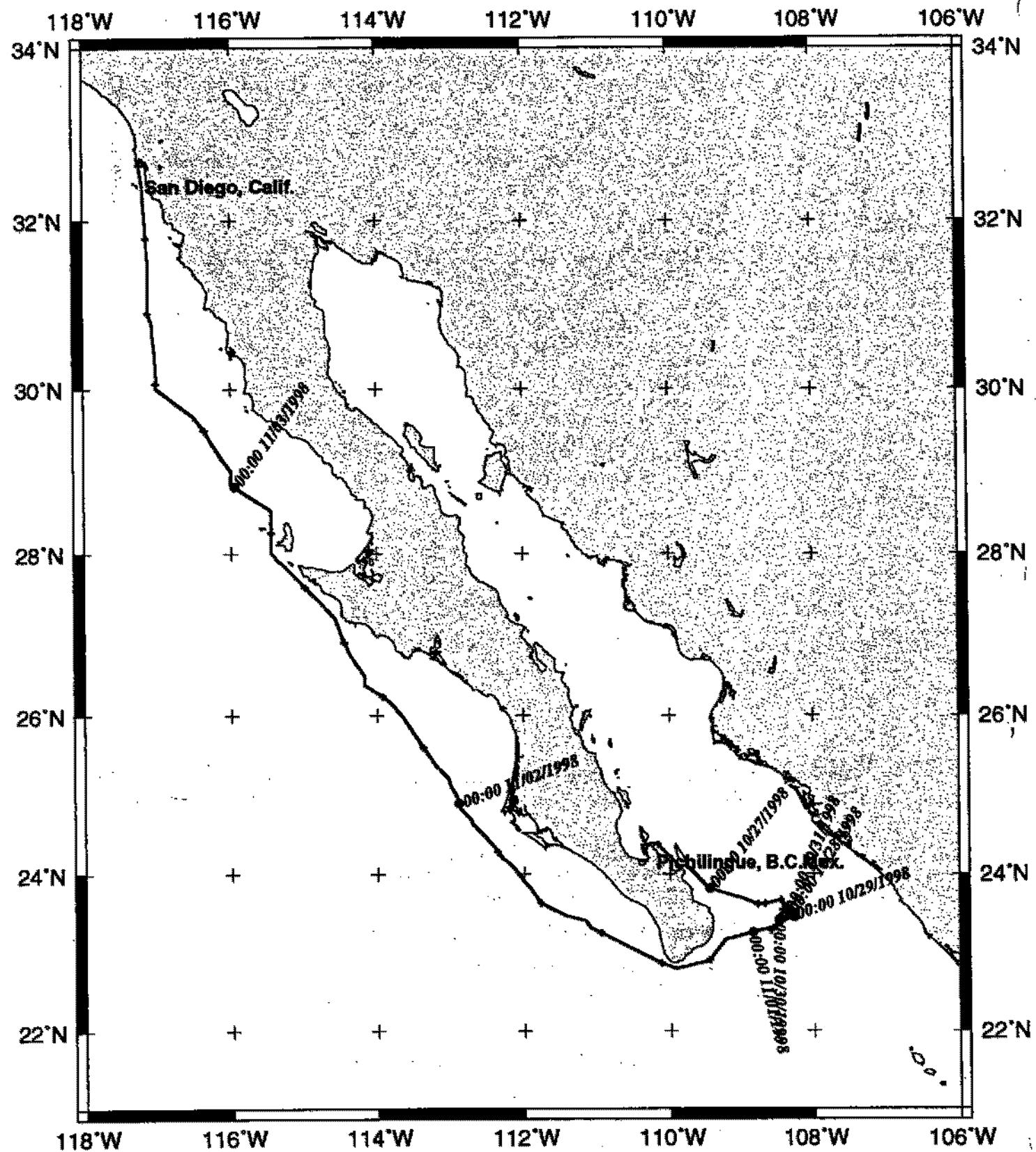
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 1146 miles Magnetics - none collected

Bathymetry - 1104 miles Seismic Reflection - 15 miles

Sea Beam - 1104 miles Gravity - none collected

ALAR02RR Track



ALAR02RR Survey

108° 40'W

108° 30'W

108° 20'W

23° 40'N

23° 40'N

23° 30'N

23° 30'N

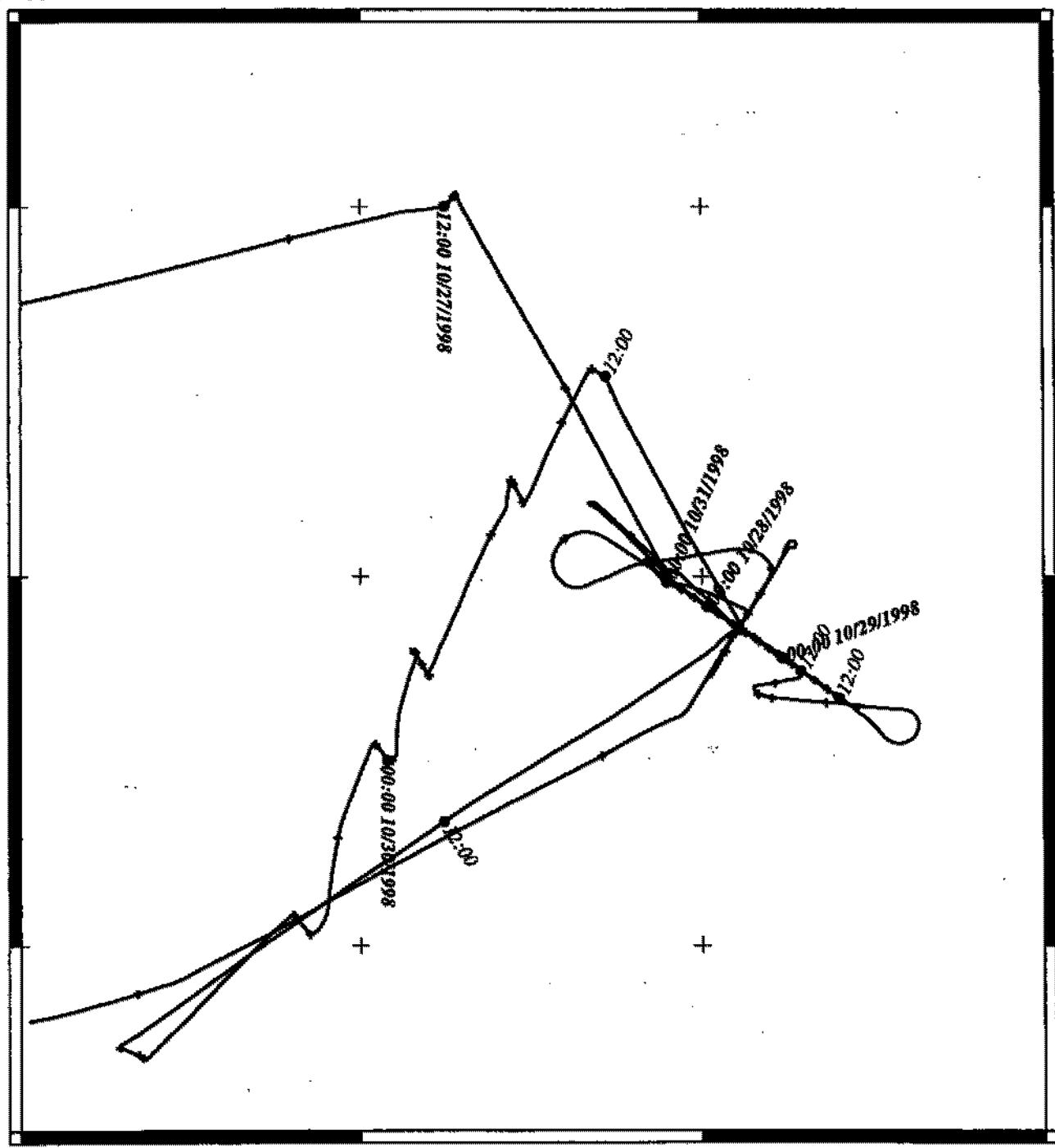
23° 20'N

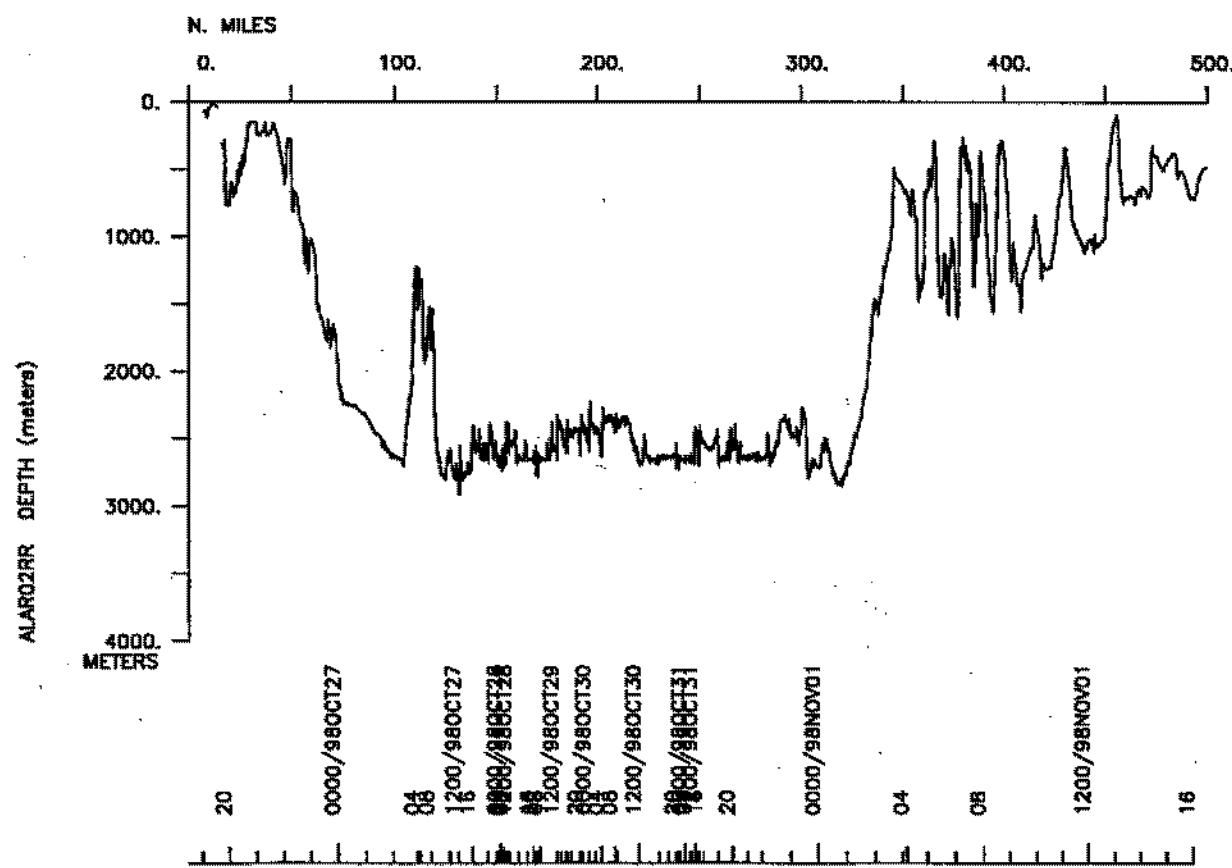
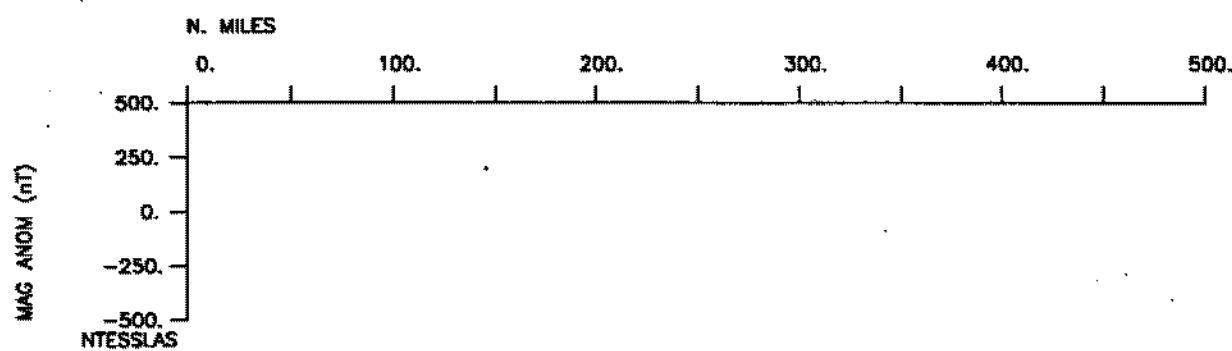
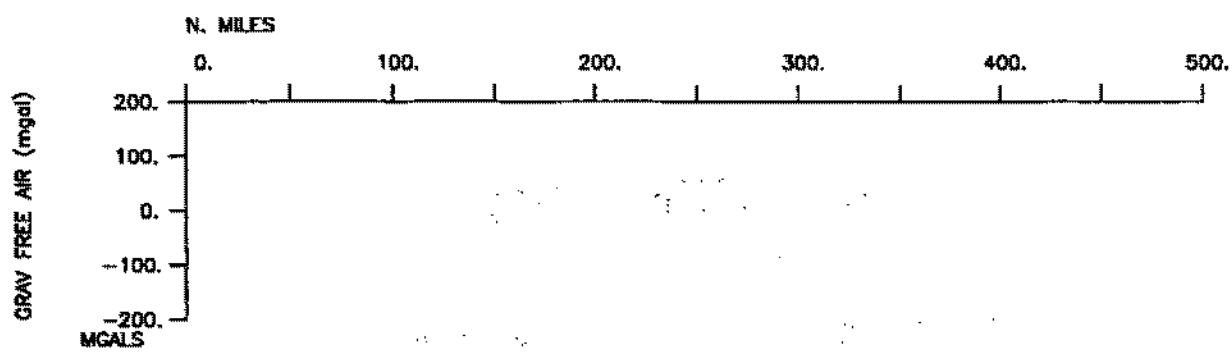
23° 20'N

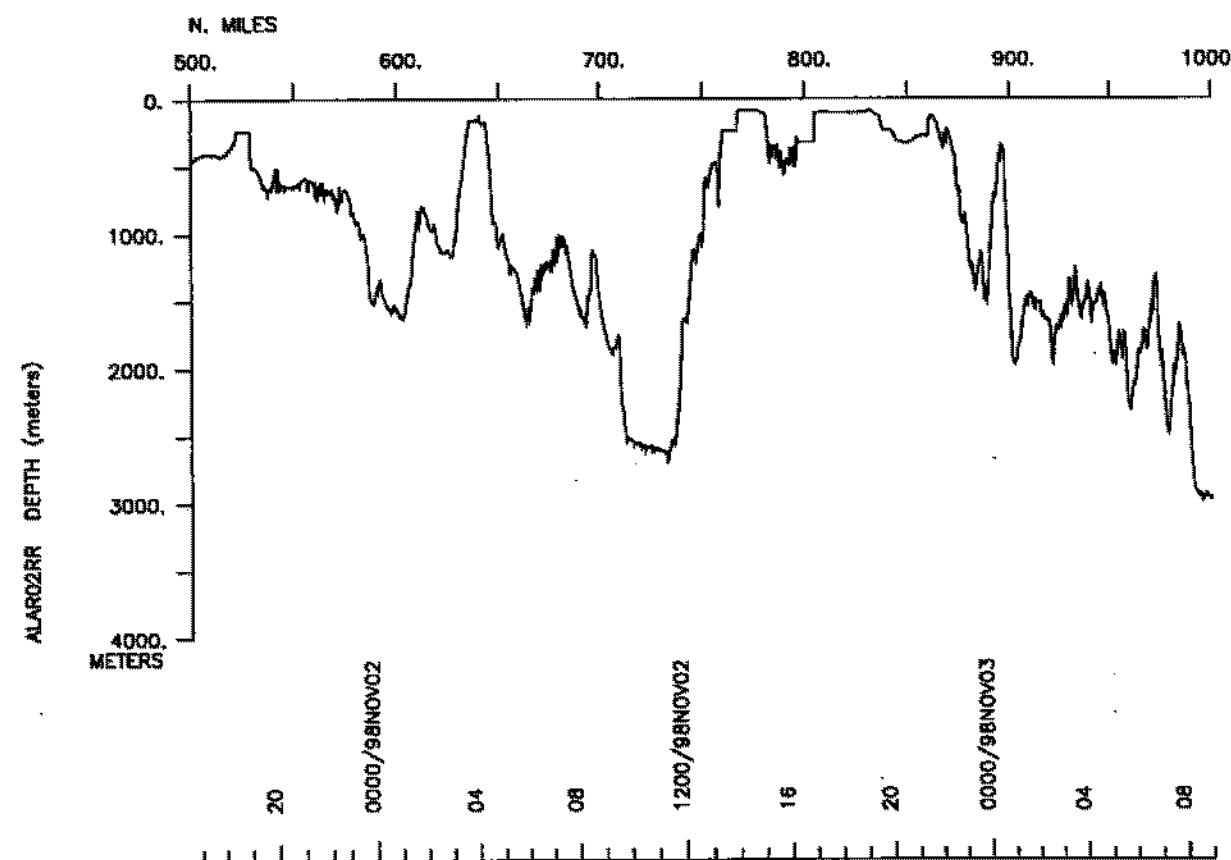
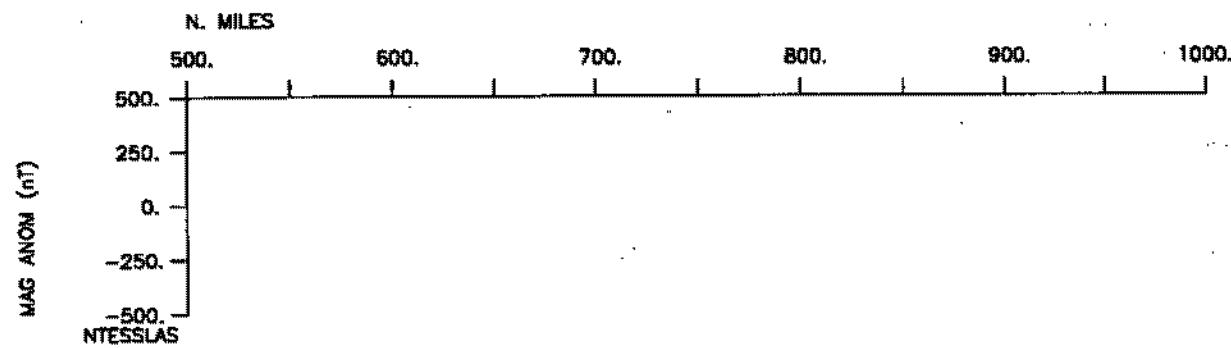
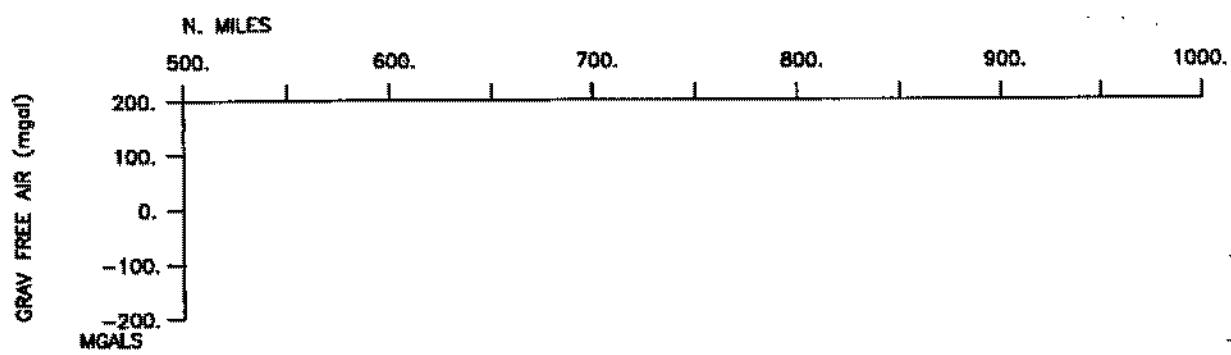
108° 40'W

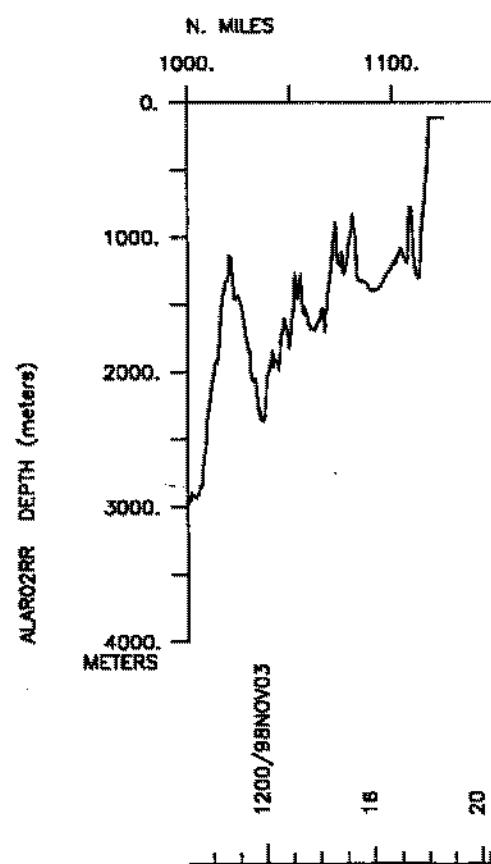
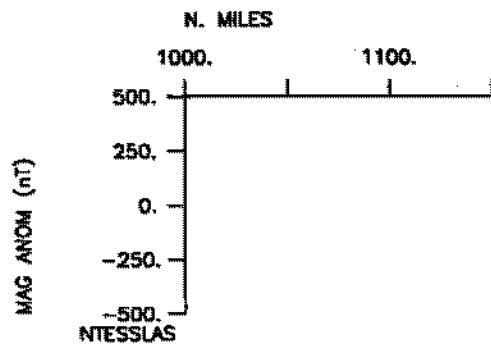
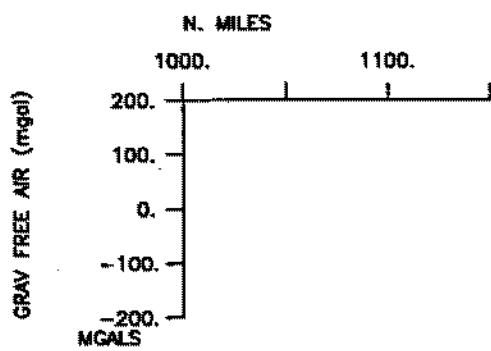
108° 30'W

108° 20'W









S.I.O. SAMPLE INDEX

ALARCON EXPEDITION

LEG 2

(ALAR02RR)

R/V **Revelle**

(Issued January 1999)

Ports:

Pichilingue, Mexico (26 October 1998)

to

San Diego, California (3 November 1998)

Chief Scientist:

James Hawkins, Scripps Institution

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.# 281

**** Ports ***

1800 261098 0 LGPT B	Pichilingue, Mexico	24-15.15N 110-19.51W g	ALAR02RR
2000 031198 0 LGPT E	San Diego, California	32-43.00N 117-11.00W f	ALAR02RR

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS GRD	Hawkins, J.	Chief scientist	Scripps Institution	ALAR02RR
PESP GRD	Castillo, P.	Scientist	Scripps Institution	ALAR02RR
PESP GRD	Hilton, D.	Scientist	Scripps Institution	ALAR02RR
PESP GRD	Kastner, M.	Scientist	Scripps Institution	ALAR02RR
PESP UCSC	Fisher, A.	Scientist	U.C. Santa Cruz	ALAR02RR
PESP GRD	Craven, J.	Scientist	Scripps Institution	ALAR02RR
PECT STS	Jacobson, D.	Computer tech	Scripps Institution	ALAR02RR
PEAT STS	Mogk, S.	Airgun tech	Scripps Institution	ALAR02RR
PERT STS	Wilson, R.	Resident tech	Scripps Institution	ALAR02RR
PESP GRD	Sclater, J.	Scientist	Scripps Institution	ALAR02RR
PEST GRD	Ransom, B.	Student	Scripps Institution	ALAR02RR
PESP MEX	Forsythe, L.	Scientist	CISESE, Mexico	ALAR02RR
PEST MEX	Franco, G.	Student	CISESE, Mexico	ALAR02RR
PESP MEX	Herguera, J.	Scientist	CISESE, Mexico	ALAR02RR
PEST MEX	Salami, B.	Student	CISESE, Mexico	ALAR02RR
PESP GRD	Robertson, G.	Research Asso.	Scripps Institution	ALAR02RR
PESP SIX	Volpe, A.	Scientist	L.Livermore Lab	ALAR02RR
PESP SIX	Esser, B.	Scientist	L.Livermore Lab	ALAR02RR
PESP SIO	Hoger, M.	Technician	Scripps Institution	ALAR02RR
PESP SIO	Weinstein, Y.	Technician	Scripps Institution	ALAR02RR
PESP USGS	Hendrickson, G.	Technician	U.S. Geologic Survey	ALAR02RR
PEST MEX	Vasquez, M.	Student	CISESE, Mexico	ALAR02RR
PEST MEX	Escalona, F.	Student	CISESE, Mexico	ALAR02RR
PEST SIO	Massell, C.	Student	Scripps Institution	ALAR02RR

**** 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 ***

1800 261098 0 LBUW B	Underway watch log	GDC	24-15.15N 110-19.51W g	ALAR02RR
2000 031198 0 LBUW E	Underway watch log	GDC	32-38.93N 117-13.47W g	ALAR02RR
0318 171098 0 LBSC B	Hawkins' rock log	GRD	24-15.15N 110-19.51W g	ALAR02RR
1625 311098 0 LBSC E	Hawkins' rock log	GRD	23-26.70N 108-18.00W g	ALAR02RR
1717 281098 0 LBSC B	Kastner's core log	GRD	23-28.47N 108-18.76W g	ALAR02RR
1322 311098 0 LBSC E	Kastner's core log	GRD	23-27.43N 108-17.14W g	ALAR02RR
0318 271098 0 LBSC B	CISESE log book	MEX	23-36.98N 108-47.53W g	ALAR02RR
0436 011198 0 LBSC E	CISESE log book	MEX	22-54.43N 109-27.89W g	ALAR02RR

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

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

2002 261098 0 MBSR B v.beam&sscan r-01	GDC	24-22.10N	110-09.87W	g	ALAR02RR
1825 031198 0 MBSR E v.beam&sscan r-01	GDC	32-19.10N	117-10.63W	g	ALAR02RR

**** Echo Sounder Records - Bathy 2000 ***

1916 261098 0 DPR3 B Knudsen 3.5kHz r-01	GDC	24-22.14N	110-20.10W	g	ALAR02RR
1756 271098 0 DPR3 E Knudsen 3.5kHz r-01	GDC	23-30.24N	108-21.24W	g	ALAR02RR
1757 271098 0 DPR3 B Knudsen 3.5kHz r-02	GDC	23-30.19N	108-21.19W	g	ALAR02RR
0156 281098 0 DPR3 E Knudsen 3.5kHz r-02	GDC	23-28.72N	108-19.14W	g	ALAR02RR
0424 281098 0 DPR3 B Knudsen 3.5kHz r-03	GDC	23-28.11N	108-18.20W	g	ALAR02RR
1558 281098 0 DPR3 E Knudsen 3.5kHz r-03	GDC	23-28.47N	108-18.76W	g	ALAR02RR
1658 281098 0 DPR3 B Knudsen 3.5kHz r-04	GDC	23-28.47N	108-18.76W	g	ALAR02RR
1300 311098 0 DPR3 E Knudsen 3.5kHz r-04	GDC	23-27.44N	108-17.14W	g	ALAR02RR
1342 311098 0 DPR3 B Knudsen 3.5kHz r-05	GDC	23-27.43N	108-17.14W	g	ALAR02RR
1825 011198 0 DPR3 E Knudsen 3.5kHz r-05	GDC	24-02.15N	112-06.11W	g	ALAR02RR
2010 011198 0 DPR3 B Knudsen 3.5kHz r-06	GDC	24-18.60N	112-22.68W	g	ALAR02RR
1740 031198 0 DPR3 E Knudsen 3.5kHz r-06	GDC	32-09.45N	117-09.87W	g	ALAR02RR

**** Seismic Reflection Airguns **

1833 311098 0 SPRS B airgun 4sec r-01	GDC	23-25.55N	108-14.56W	g	ALAR02RR
2136 311098 0 SPRS E airgun 4sec r-01	GDC	23-26.52N	108-20.33W	g	ALAR02RR

**** Continuous Surface Seawater Sample - Lawrence Livermore Lab. ***

1800 261098 0 CSXX B surface H2O sample	SIX	24-15.15N	110-19.51W	g	ALAR02RR
2100 031198 0 CSXX E surface H2O sample	SIX	32-42.40N	117-14.17W	g	ALAR02RR

**** Dredges ***

0733 271098- 0 DRRO B dredge 2 1563-1524m	GRD	23-37.00N	108-41.30W	g	ALAR02RR
0829 271098 0 DRRO E dredge 2 1563-1524m	GRD	23-37.30N	108-41.10W	g	ALAR02RR
1156 271098 0 DRRO B dredge 3 2824-2677m	GRD	23-40.00N	108-27.50W	g	ALAR02RR
1330 271098 0 DRRO E dredge 3 2824-2677m	GRD	23-40.30N	108-27.18W	g	ALAR02RR
1208 291098 0 DRRO B dredge 4 2610-2383m	GRD	23-35.40N	108-22.80W	g	ALAR02RR
1251 291098 0 DRRO E dredge 4 2610-2383m	GRD	23-35.60N	108-23.20W	g	ALAR02RR
1515 291098 0 DRRO B dredge 5 2567-2428m	GRD	23-32.00N	108-25.20W	g	ALAR02RR
1646 291098 0 DRRO E dredge 5 2567-2428m	GRD	23-32.59N	108-25.57W	g	ALAR02RR

#GMT DDMMYY	SAMP	B SAMPLE	DISP	P CRUISE		
#TIME DATE TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	C LEG-SHIP
#-----	-----	-----	-----	-----	-----	-----
1938 291098 0	DRRO B	dredge 6 2545-2363m	GRD	23-27.30N	108-28.00W	g ALAR02RR
2134 291098 0	DRRO E	dredge 6 2545-2363m	GRD	23-27.94N	108-28.41W	g ALAR02RR
0100 301098 0	DRRO B	dredge 7 2390-2285m	GRD	23-25.45N	108-29.56W	g ALAR02RR
0137 301098 0	DRRO E	dredge 7 2390-2285m	GRD	23-25.45N	108-29.56W	g ALAR02RR
0421 301098 0	DRRO B	dredge 8 2530-2487m	GRD	23-20.30N	108-31.50W	g ALAR02RR
0605 301098 0	DRRO E	dredge 8 2530-2487m	GRD	23-20.83N	108-31.98W	g ALAR02RR
0847 301098 0	DRRO B	dredge 9 2665-2385m	GRD	23-17.00N	108-36.40W	g ALAR02RR
1008 301098 0	DRRO E	dredge 9 2665-2385m	GRD	23-17.25N	108-37.10W	g ALAR02RR
1516 311098 0	DRRO B	dredge10	GRD	23-26.80N	108-18.40W	g ALAR02RR
1625 311098 0	DRRO E	dredge10	GRD	23-26.70N	108-18.00W	g ALAR02RR

Expendable Bathythermographs ***

1545 271098 0	BTXP B	5 XBTs (71-76)	GDC	23-37.35N	108-25.38W	g ALAR02RR
0100 031198 0	BTXP E	5 XBTs (71-76)	GDC	28-59.93N	115-59.73W	g ALAR02RR

**** Cores ***

1718 281098 0	COXX	Multi-Core 01 2640m	GRD	23-28.47N	108-18.76W	g ALAR02RR
2100 281098 0	COXX	Multi-Core 02 2672m	GRD	23-27.89N	108-17.84W	g ALAR02RR
2340 281098 0	COXX	Multi-Core 03 2680m	GRD	23-27.79N	108-17.69W	g ALAR02RR
0320 291098 0	COGV	Gravity 04 2652m	GRD	23-27.79N	108-17.69W	g ALAR02RR
0601 291098 0	COGV	Gravity 05 2686m	GRD	23-27.89N	108-17.84W	g ALAR02RR
0906 291098 0	COGV	Gravity 06 2642m	GRD	23-28.47N	108-18.76W	g ALAR02RR
0116 311098 0	COGV	Gravity 07 2652m	GRD	23-29.90N	108-20.98W	g ALAR02RR
0357 311098 0	COXX	Multi-Core 08 2657m	GRD	23-29.90N	108-20.98W	g ALAR02RR
0711 311098 0	COXX	Multi-Core 09 2655m	GRD	23-28.97N	108-19.53W	g ALAR02RR
0855 311098 0	COXX	Multi-Core 10 2639m	GRD	23-28.60N	108-18.96W	g ALAR02RR
1233 311098 0	COXX	Multi-Core 11 2453m	GRD	23-27.44N	108-17.14W	g ALAR02RR
0358 011198 0	COPS	Piston core-01 659m	GRD	22-54.43N	109-27.89W	g ALAR02RR

**** Heat Flow ***

1836 271098 0	HFME B	Heatflow multi 1	UCSC	23-29.93N	108-20.98W	g ALAR02RR
1300 281098 0	HFME E	Heatflow multi 1	UCSC	23-26.69N	108-15.98W	g ALAR02RR
1520 301098 0	HFME B	Heatflow multi 2	UCSC	23-27.96N	108-19.32W	g ALAR02RR
2223 301098 0	HFME E	Heatflow multi 2	UCSC	23-28.96N	108-18.71W	g ALAR02RR

End Sample Index ALAR02RR