

REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA

JANUS EXPEDITION

LEG 1
=====

R/V Thomas Washington

(Issued May 1993)

San Diego, California (20 June 1992)
to
San Diego, California (23 June 1992)

Chief Scientist:

Fred Spiess (Scripps Institution)

Co-Chief Scientist - Christian de Moustier (SIO)

Resident Marine Technician - Ron Comer

Computer Technician - George Bouchard

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 Office of Naval Research

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.# 259

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 having subbottom profile (airgun or watergun) records have a wide black line along the bottom of the profile.

Sample Index - list of beginning and end times and positions of all underway records as well as all other samples and measurements (geology, biology, physical oceanography, etc.) 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.

1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (2 $\frac{2}{3}$ degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of depths, magnetics or gravity profiles along track - custom plots at various map and profile scales on Mercator projection may be requested.
4. Separate time series files of navigation, depth, gravity and magnetics as well as these data merged in the MGD77 Exchange format on magnetic tape.
5. Microfilm or Xerox copies of:
 - a. Echosounder records - 12 and 3.5 kHz frequency
 - b. Subbottom profiler records
 - c. Magnetometer records
 - d. Underway data log book

SIO Sea Beam Data Information

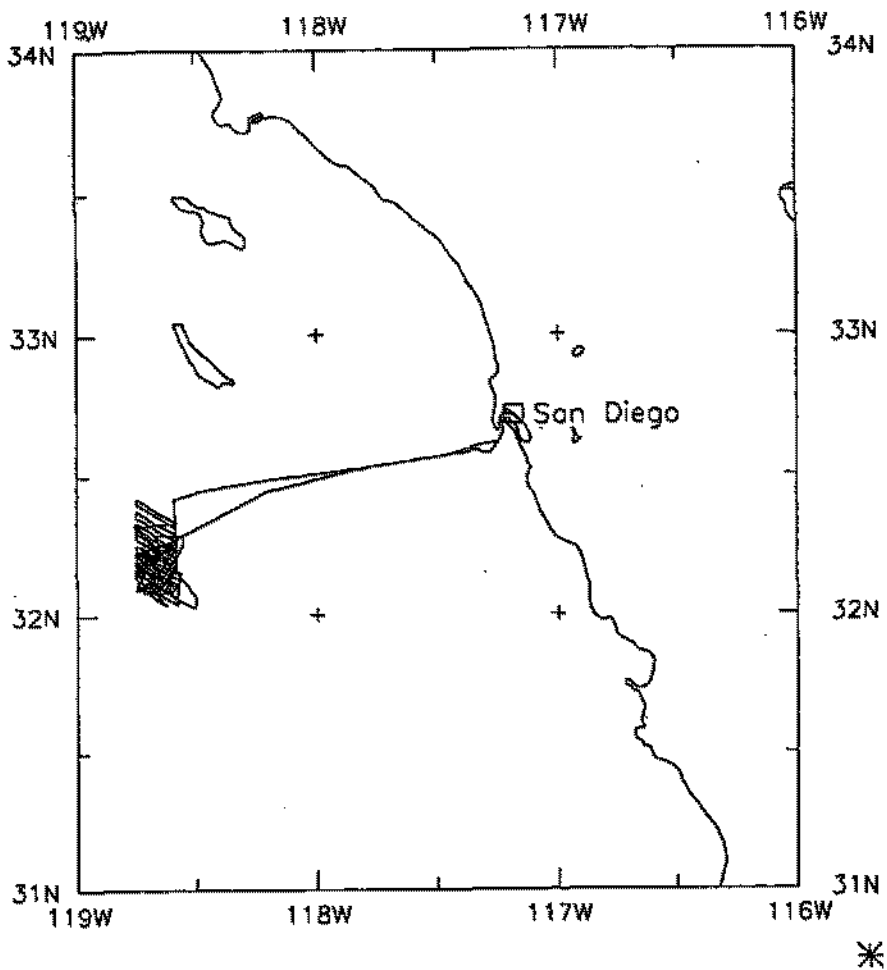
The following forms are available, subject to approval of the cruise leg chief scientist:

- 1) Archive copy of contour swath books generated in real time on board ship available for inspection at the data center.
- 2) Microfilm (35mm flowfilm) containing swath books plus, for some cruises, the Sea Beam monitor record and navigation list.
- 3) Sea Beam merged tapes - Sea Beam data merged with navigation. (Navigation is edited to the extent that DR courses and speeds are edited and poor fixes are removed after inspection of drift vectors between fix pairs. No editing is done on the basis of adjusting to overlapping Sea Beam swaths.)
- 4) Archive contour plots - 16"/degree chart scale, with contour interval nominally 50m, are generated for all transit lines. Some survey areas are plotted at appropriate scales as well. Available for inspection at data center; additional copies may be generated from plot files stored on tape.
- 5) Custom generated plots of Sea Beam swaths on Mercator projection in four colors at variable plot scales and contour intervals. There are provisions to adjust positions of individual track lines and to edit out beams (bad data or overlapping data on inside of turns).

Revised October 1986

NOTE: Sea Beam data collection and processing were not funded by extramural grants on this leg. Instead, they have been collected and processed in "transit mode" by the SIO Shipboard Technical Support group as part of an experimental program to optimize ship usage and to increase the amount of available Sea Beam data. At this time, policies for processing these data are under review. For more information, contact the Geological Data Center curator.

April 1989



JANUS EXPEDITION LEG 1

CHIEF SCIENTIST: Fred Speiss (Scripps Institution)

PORTS: San Diego - San Diego, Calif.

DATES: 20 -23 June 1992

SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 612 miles

Magnetics - none collected

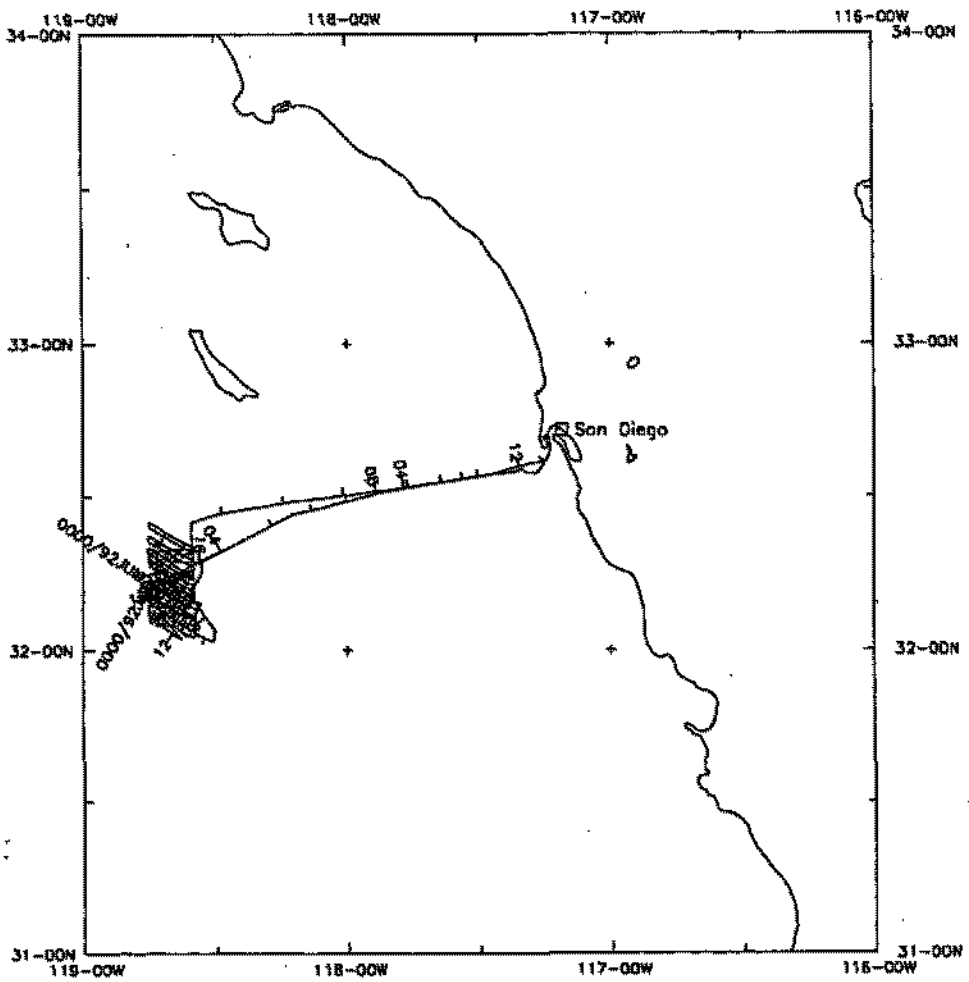
Bathymetry - 540 miles

Seismic Reflection - none collected

Sea Beam - 540 miles*

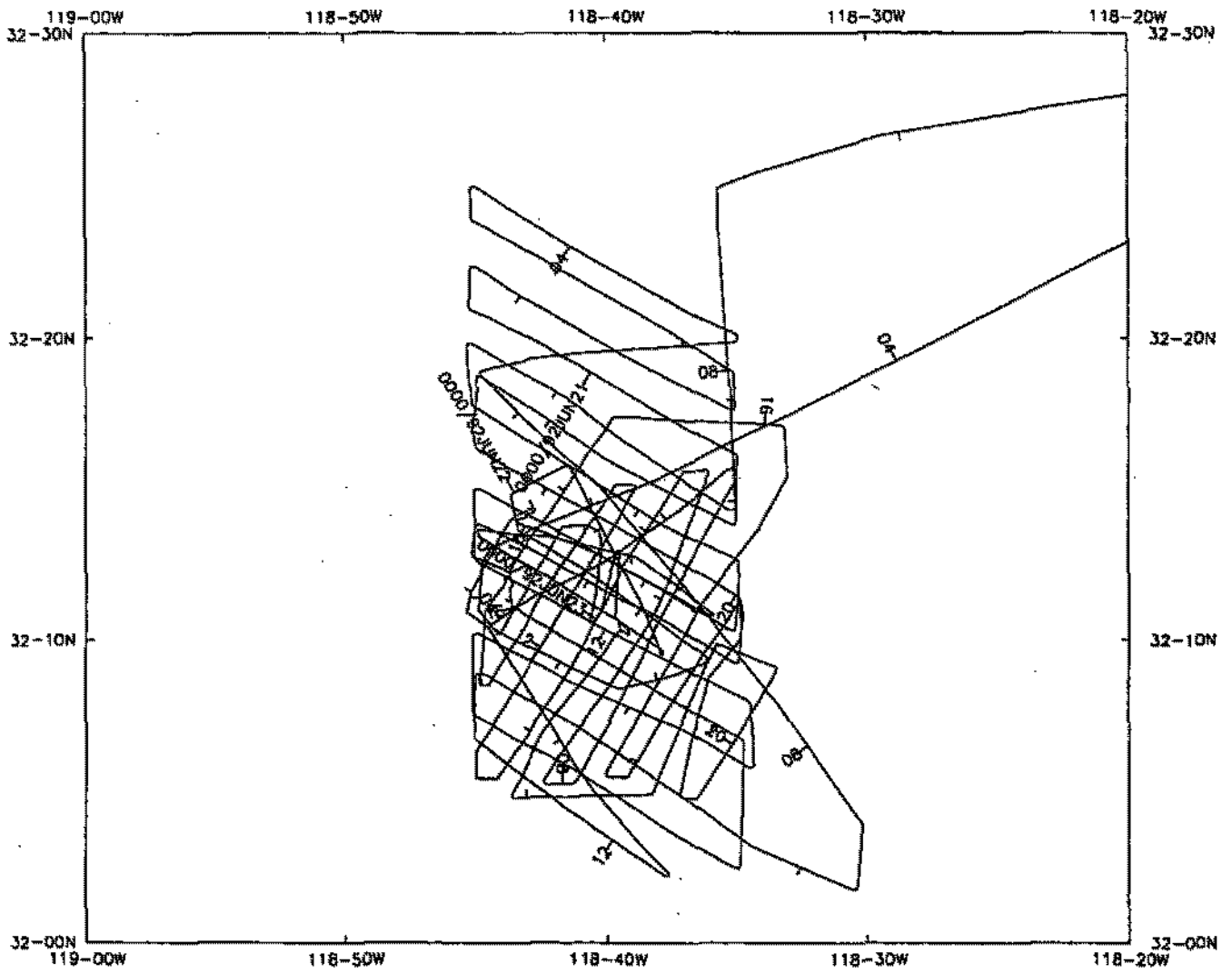
Gravity - none collected

*collected in ancillary mode



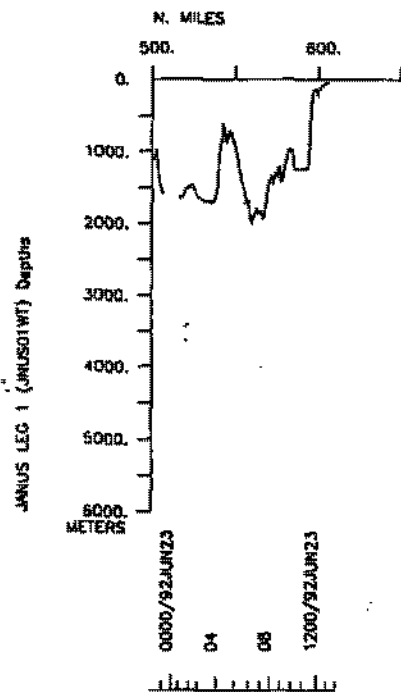
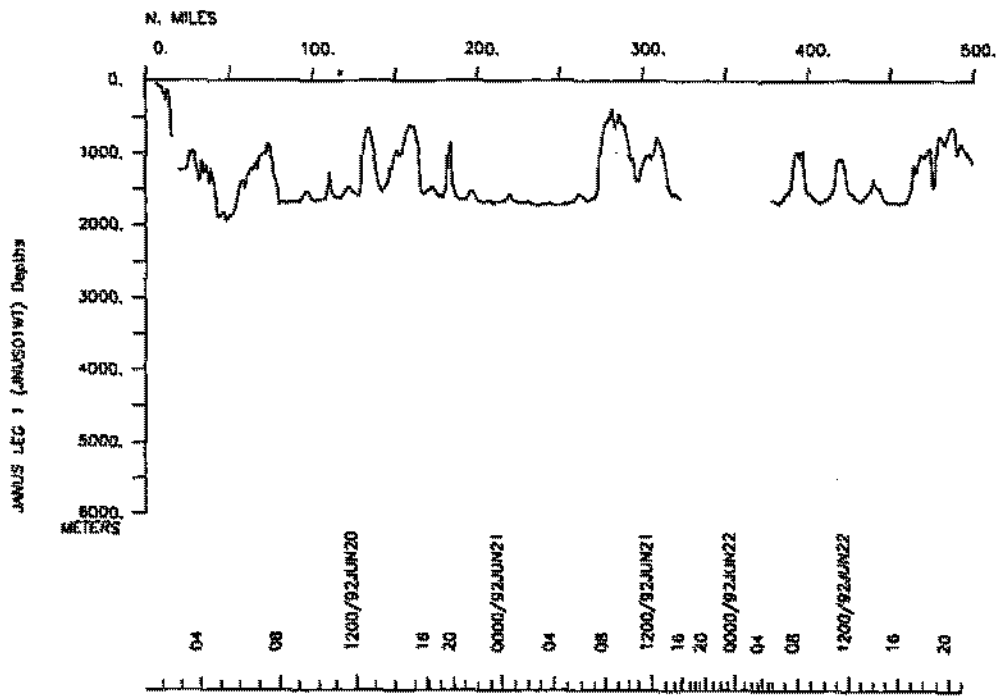
JANUS Leg 1 (JNUS01WT)

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JANUS Leg 1 (JNUS01WT)

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S.I.O. SAMPLE INDEX

(Issued May 1993)

JANUS EXPEDITION

Leg 1

R/V Thomas Washington

San Diego, California (20 June 1992)
to
San Diego, California (23 June 1992)

Chief Scientist:

Fred Speiss (Scripps Institution)

Co-Chief Scientist - Christian de Moustier (SIO)

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.# 259

**** Ports ***

0100	200692	0	LGPT B	San Diego, Ca.	32-43.00N	117-11.00W	f	JNUS01WT
1330	230692	0	LGPT E	San Diego, Ca.	32-43.00N	117-11.00W	f	JNUS01WT

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS MPL	Speiss,Dr.F.	Chief Scientist	Scripps Institution	JNUS01WT
PESP MPL	DeMoustier,Dr.C.	Co-Chief Scient.	Scripps Institution	JNUS01WT
PEMT MPL	Aja,T.	Marine Tech.	Scripps Institution	JNUS01WT
PEST USB	Alexander,R.	Grad. Student	U.C. Santa Barbara	JNUS01WT
PEMT MPL	Austin,G.	Marine Tech.	Scripps Institution	JNUS01WT
PECT STS	Bouchard,G.	Computer Tech.	Scripps Institution	JNUS01WT
PERT STS	Comer,R.L.	Resident Tech.	Scripps Institution	JNUS01WT
PEXN MPL	Herzfeld,Dr.U.	Research Sci.	Scripps Institution	JNUS01WT
PESP MPL	Herrera,L.	Admin. Assist.	Scripps Institution	JNUS01WT
PESP MPL	Keehan,M.	Elect. Tech.	Scripps Institution	JNUS01WT
PECT MPL	Lawhead,B.	Computer Prog.	Scripps Institution	JNUS01WT
PECT MPL	Lowenstein,Dr.C.	Computer Eng.	Scripps Institution	JNUS01WT
PEST MPL	Pantzartzis,D.	Grad. Stud.	Scripps Institution	JNUS01WT
PEET MPL	Pavlicek,V.	Elect. Eng.	Scripps Institution	JNUS01WT
PESP MPL	Zimmerman,R.	Assoc. Dev. Eng.	Scripps Institution	JNUS01WT

**** 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 ***										
0630	200692	0	LBUW	B Underway Log Book	GDC	32-27.78N	118-21.56W	g	JNUS01WT	
1333	230692	0	LBUW	E Underway Log Book	GDC	32-41.77N	117-13.96W	g	JNUS01WT	
#*** Echo Sounder Records ***										
0350	200692	0	MBRM	B Sea Beam Monitor R-01	GDC	32-32.08N	117-44.91W	g	JNUS01WT	
1804	210692	0	MBRM	E Sea Beam Monitor R-01	GDC	32-11.22N	118-36.51W	g	JNUS01WT	
#*** Deep Tow Instrument ***										
1608	200692	0	DTTV	B Deploy DT Fish-6	MPL	32-11.10N	118-43.55W	g	JNUS01WT	
1743	200692	0	DTTV	E Recover DT Fish-6	MPL	32-11.82N	118-43.62W	g	JNUS01WT	
#*** Expendable Bathythermographs ***										
1756	200692	0	BTXP	xbt 0001 Probe T-4	GDC	32-12.00N	118-43.66W	g	JNUS01WT	
1803	200692	0	BTXP	xbt 0002 Probe T-11	GDC	32-12.10N	118-43.69W	g	JNUS01WT	
#	End Sample Index									JNUS01WT