

REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA

ENCORE EXPEDITION

LEG 2

R/V Thomas Washington

(Issued July 1992)

Manzanillo, Mexico (9 May 1992)
to
San Diego, California (14 May 1992)

Chief Scientist:

Peter Lonsdale (Scripps Institution of Oceanography)

Resident Marine Technician - John Boaz

Computer Technician - George Bouchard

No Sea Beam/Underway Processor on board

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:
NSF Grant Number OCE91-03919

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.*

GDC Cruise I.D. # 257

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. Internet EMail:ssmith@ucsd.edu

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

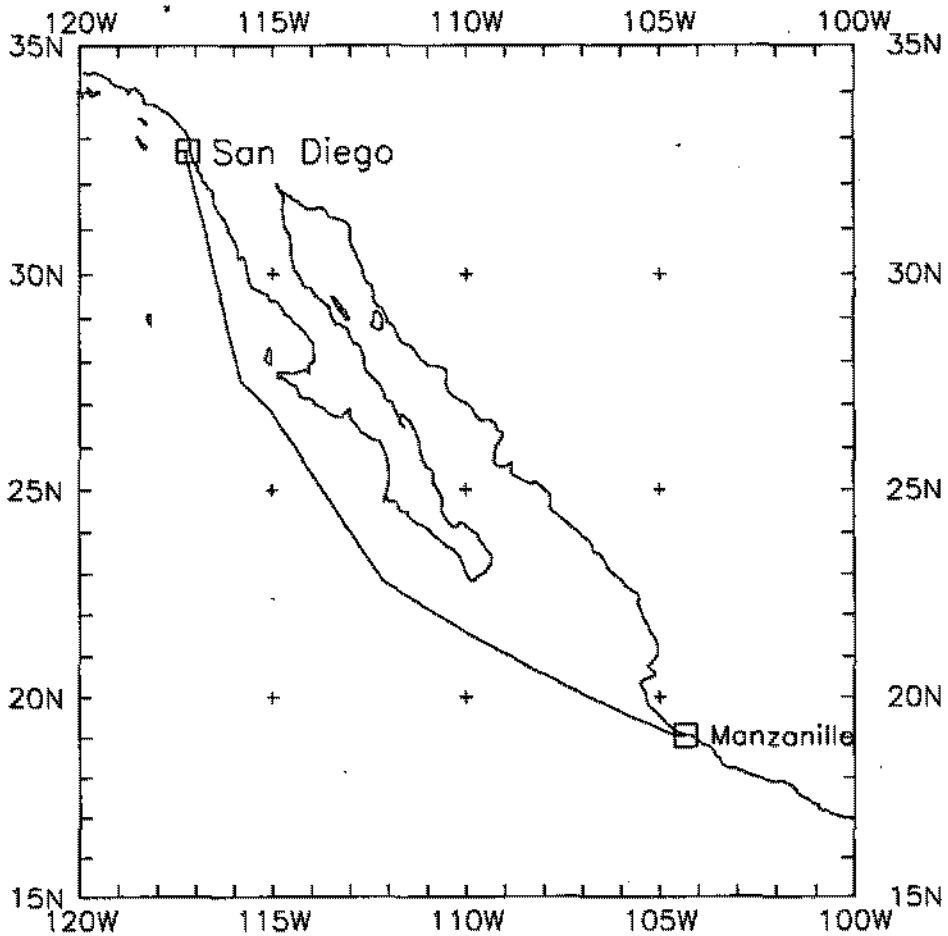
The following forms are available, subject to approval of the cruise leg chief scientist:

- 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



ENCORE Leg 2 (ENCRO2WT)

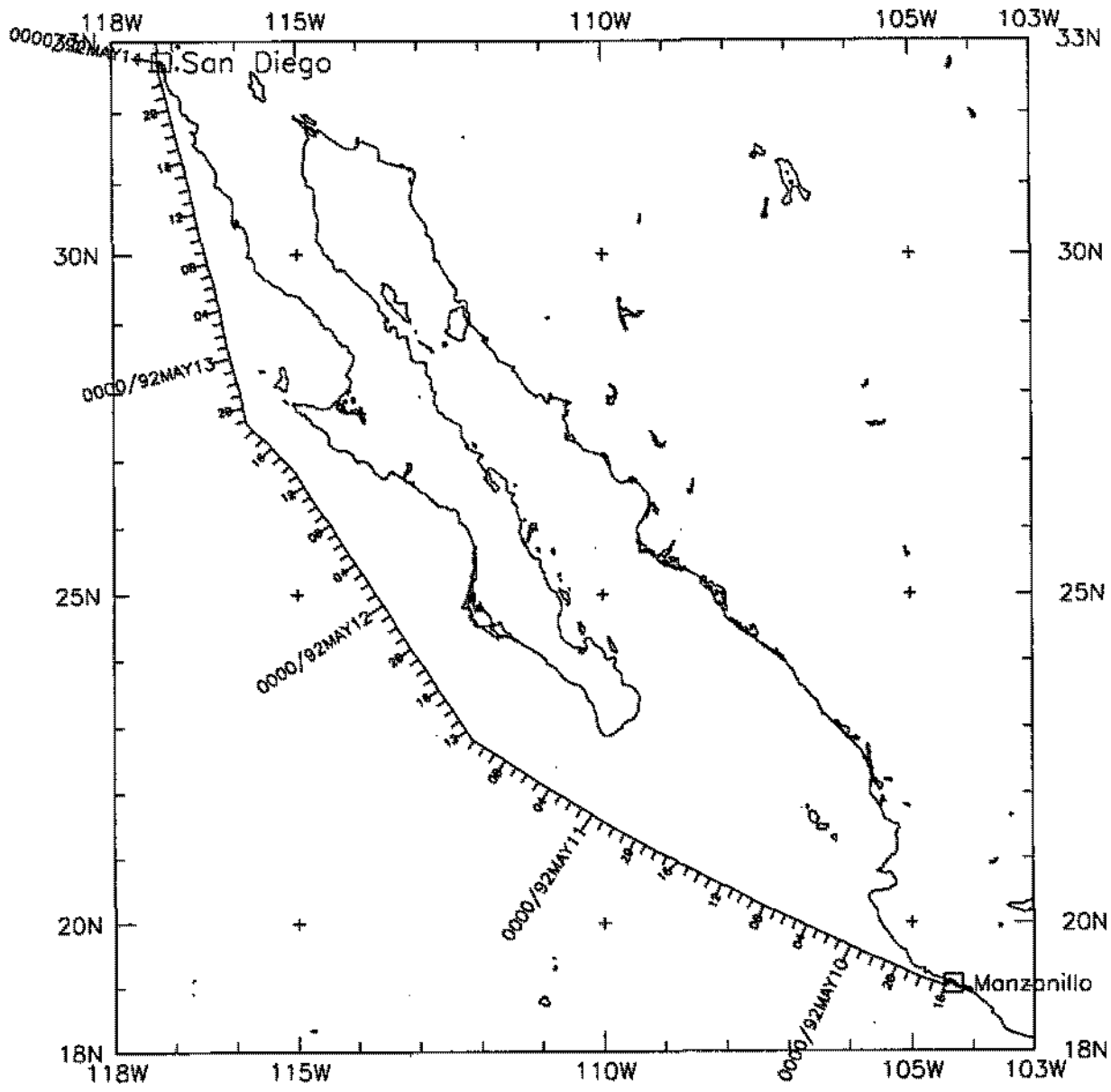
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ENCORE EXPEDITION LEG 2

CHIEF SCIENTIST: Peter Lonsdale
 Scripps Institution of Oceanography
 PORTS: Manzanillo, Mexico - San Diego
 DATES: 9 - 14 May 1992
 SHIP: R/V T. Washington

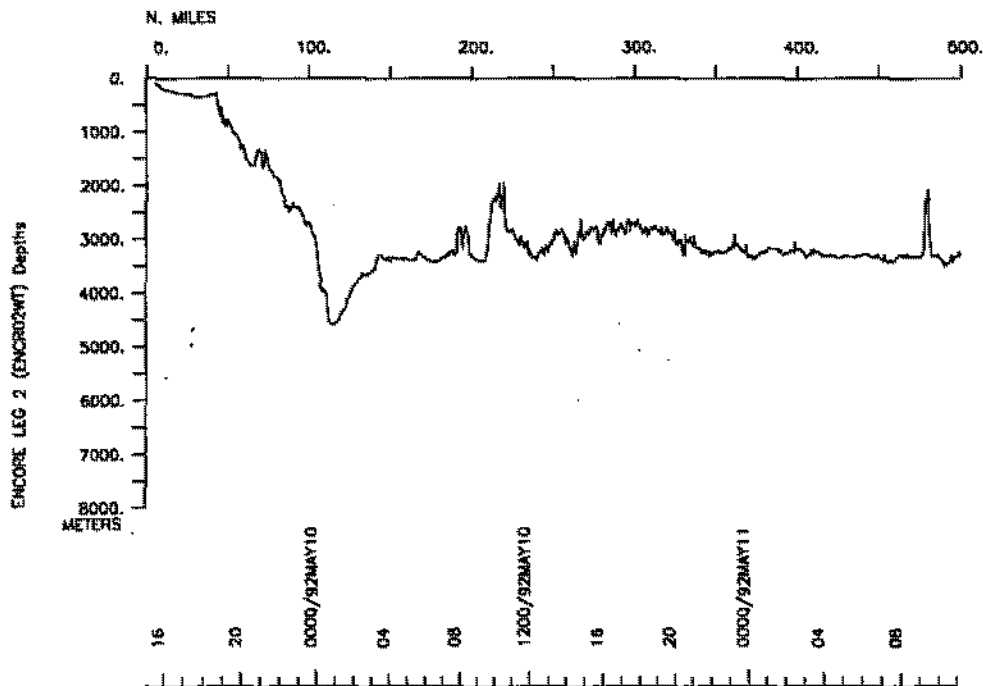
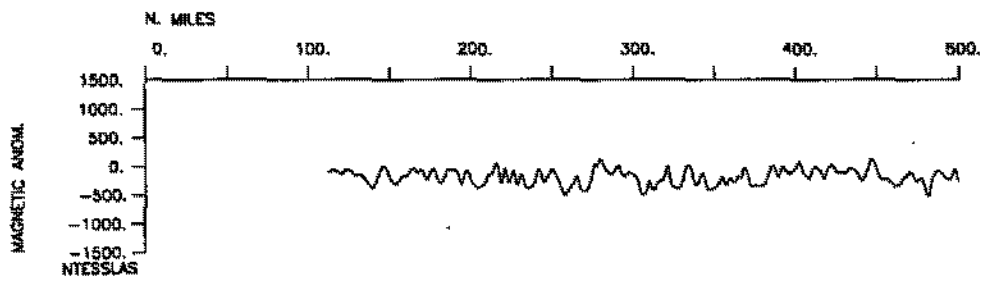
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

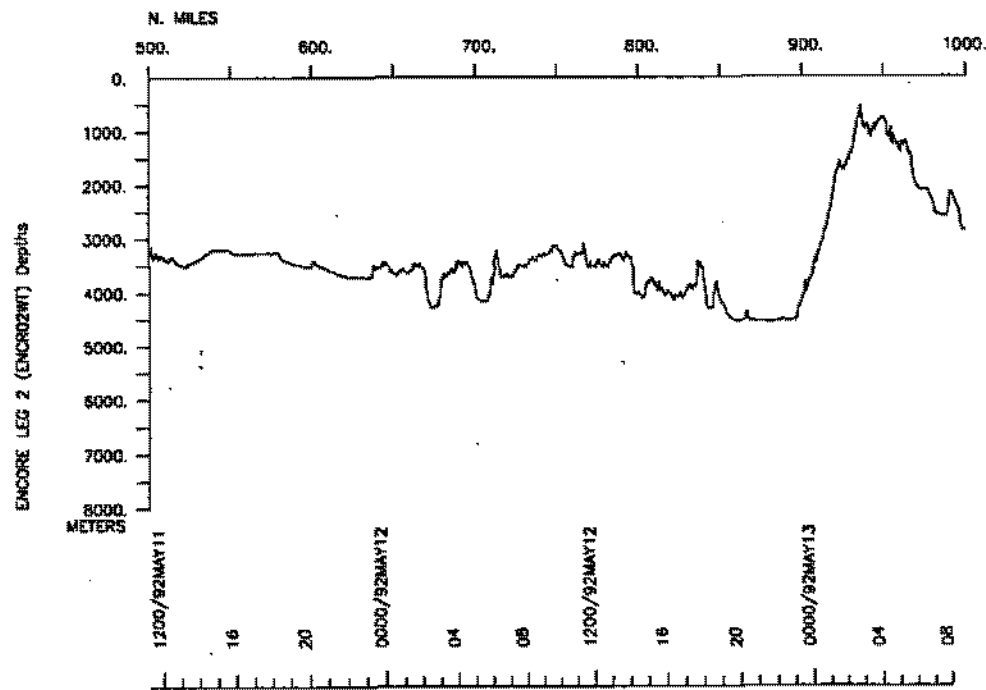
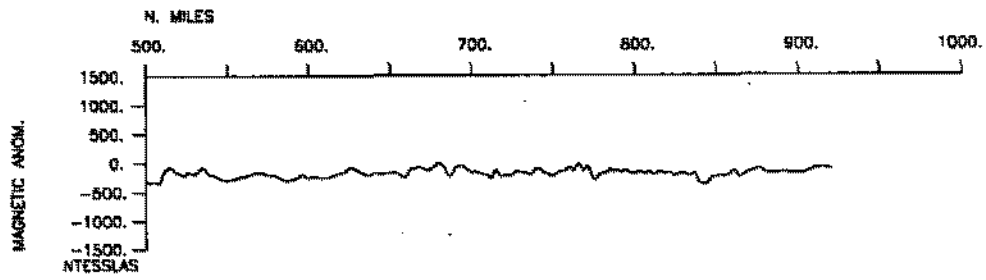
Cruise - 1166 miles	Magnetics - 811 miles
Bathymetry - 1126 miles	Seismic Reflection - none collected
Sea Beam - 1126 miles	Gravity - collected by Marine Physical Lab

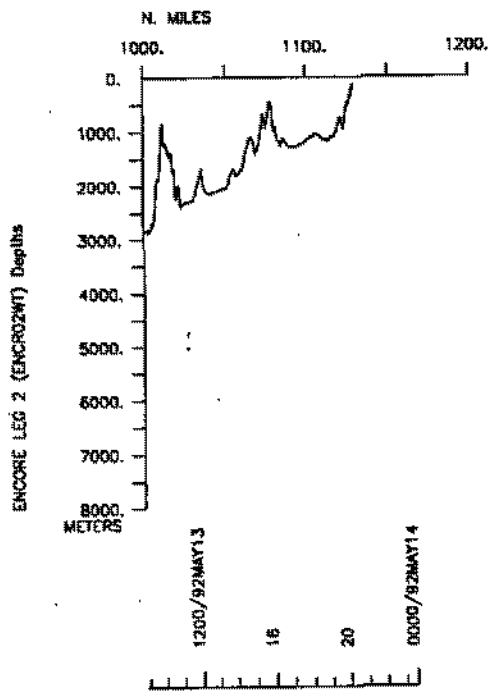
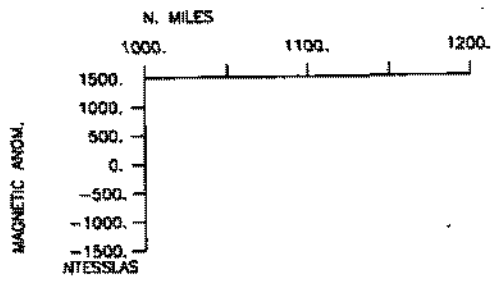


ENCORE Leg 2 (ENCRO2WT)

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S.I.O. SAMPLE INDEX

(Issued July 1992)

ENCORE EXPEDITION

Leg 2

R/V T. Washington

Manzanillo, Mexico (9 May 1992)
to
San Diego, California (14 May 1992)

Chief Scientist:

Peter Lonsdale (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. # 257

**** Ports ****

1500 090592	LGPT B Manzanillo, Mexico	19-03 N 104-20 W	fENCRO2WT
0030 140592	LGPT E San Diego, Ca.	32-43 N 117-11 W	fENCRO2WT

**** Personnel ****

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
#	-----			

PECS MPL	Lonsdale, P.	Chief Scientist	Scripps Institution	ENCRO2WT
PERT STS	Boaz, J.	Resident Tech	Scripps Institution	ENCRO2WT
PECT STS	Bouchard, G.	Computer Tech	Scripps Institution	ENCRO2WT
PESP MPL	Grittith, J.	Illustrator	Scripps Institution	ENCRO2WT
PESP MPL	Kennedy, B.	Secretary	Scripps Institution	ENCRO2WT

**** 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 #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT. (TENTHS OF MINS)	LONG. (TENTHS OF MINS)	CRUISE LEG-SHIP
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*** Underway Data Curator - S. M. Smith ext. 42752 ***

*** No Log Books ***

*** Sea Beam Swath Books ***

1600	090592			MBSB B	SeaBeam swath book 01	GDC	19-011N	104-282W	sENCRO2WT
1035	100592			MBSB E	SeaBeam swath book 01	GDC	20-291N	107-500W	sENCRO2WT
1035	100592			MBSB B	SeaBeam swath book 02	GDC	20-291N	107-500W	sENCRO2WT
2038	110592			MBSB E	SeaBeam swath book 02	GDC	24-174N	113-127W	sENCRO2WT
2038	110592			MBSB B	SeaBeam swath book 03	GDC	24-174N	113-127W	sENCRO2WT
0118	130592			MBSB E	SeaBeam swath book 03	GDC	28-434N	116-098W	sENCRO2WT

*** Echo Sounder Records ***

1600	090592			MBMR B	SeaBeam monitor 01	GDC	19-011N	104-282W	sENCRO2WT
0019	130592			MBMR E	SeaBeam monitor 01	GDC	28-332N	116-068W	sENCRO2WT
0021	130592			MBMR B	SeaBeam monitor 02	GDC	28-336N	116-069W	sENCRO2WT
0118	130592			MBMR E	SeaBeam monitor 02	GDC	28-434N	116-098W	sENCRO2WT
1600	090592			DPR3 B	3.5 kHz r-01	GDC	19-011N	104-282W	sENCRO2WT
0051	100592			DPR3 E	3.5 kHz r-01	GDC	19-427N	106-090W	sENCRO2WT

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

2200	090592			MGRA B	Magnetism r-01	GDC	19-283N	105-380W	sENCRO2WT
0118	130592			MGRA E	Magnetism r-01	GDC	28-434N	116-098W	sENCRO2WT

*** Shipboard Gravimeter ***

*** Gravity collected by J. Hildebrand (ext.44069) on Lacoste-Romberg
 *** gravimeter instead of on STS Bell gravimeter.

1600	090592			GVCR B	Shipboard gravity	MPL	19-011N	104-282W	sENCRO2WT
0030	140592			GVCR E	Shipboard gravity	MPL	32-424N	117-141W	sENCRO2WT

End Sample Index

ENCRO2WT