

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

TUNES EXPEDITION

LEG 7
=====

R/V Thomas Washington

(Issued February 1992)

Apra, Guam (6 December 1991)
to
Apra, Guam (27 December 1991)

Chief Scientist:

Sherman Bloomer (Boston University)

Resident Marine Technician - Gene Pillard

Computer Technician - George Bouchard

Sea Beam 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:
NSF Grant Number OCE91-02183

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.# 254

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. Sections having Sea Beam are indicated by a narrow black line.

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.

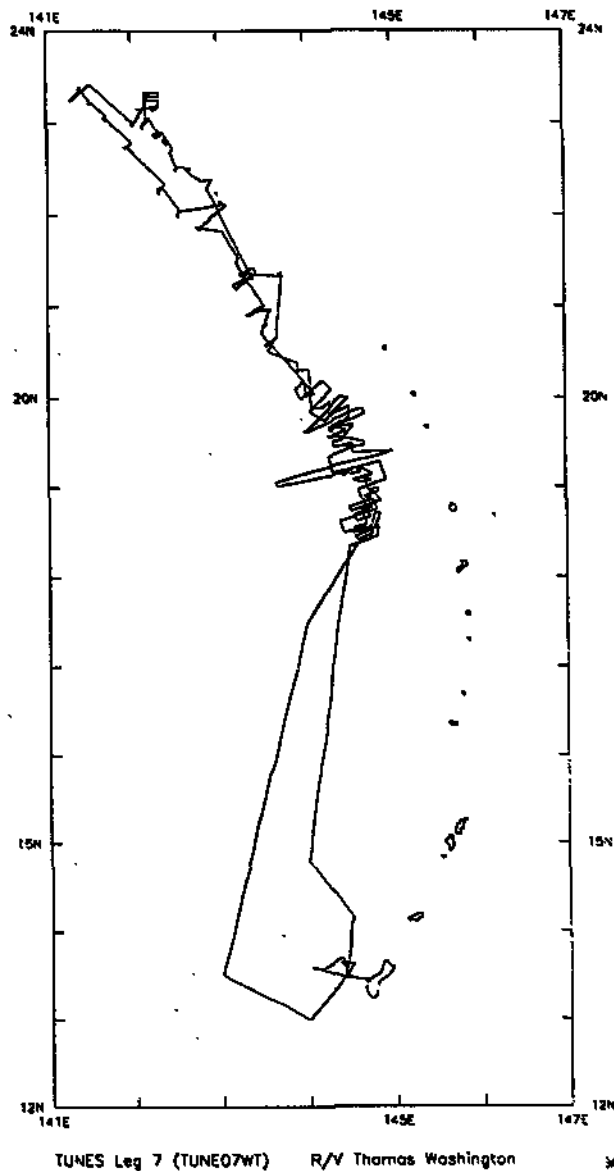
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (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



TUNES EXPEDITION LEG 7

CHIEF SCIENTIST: Sherman Bloomer
Boston University

PORTS: Apra, - Apra, Guam

DATES: 6 - 27 December 1991

SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 2902 miles

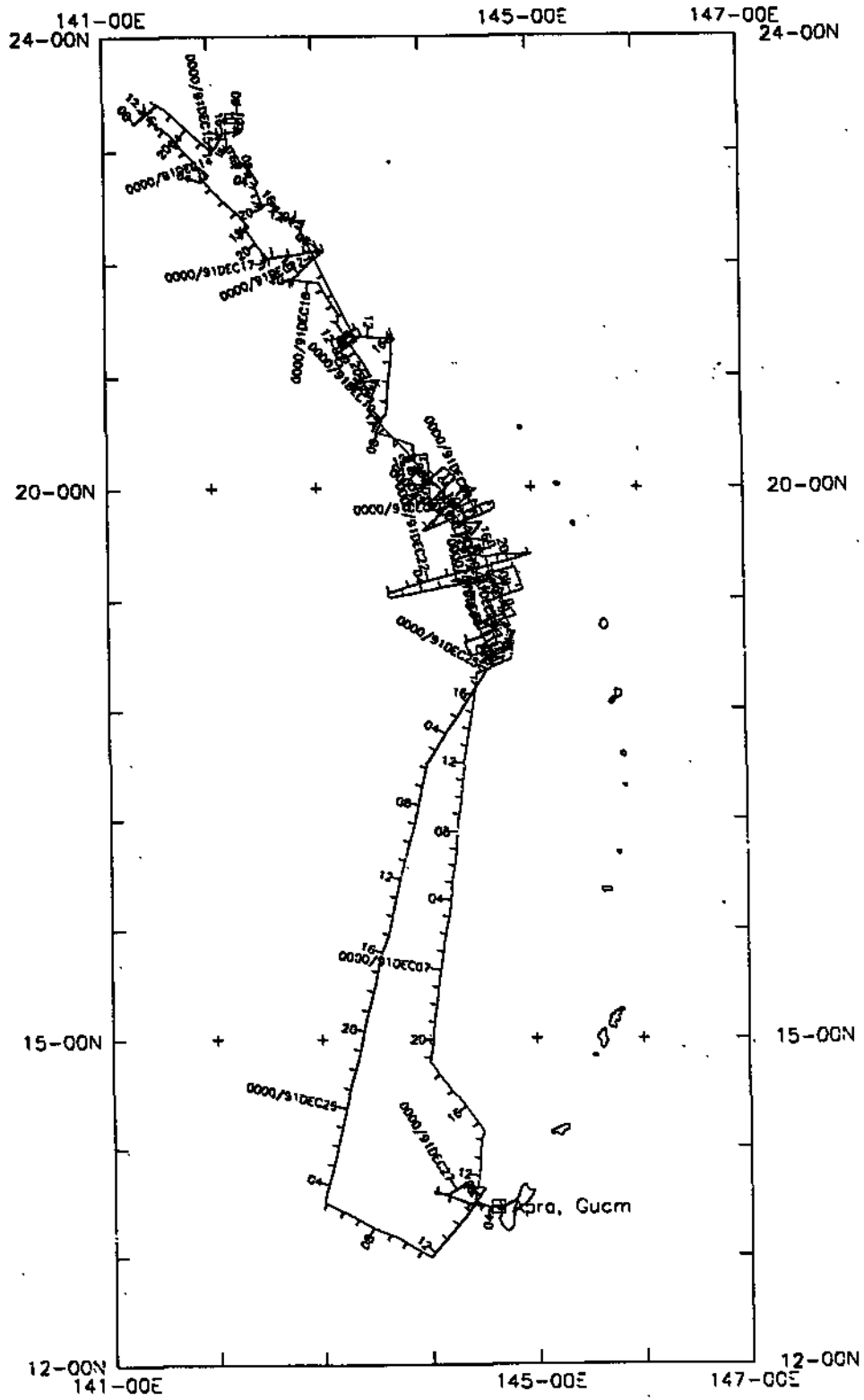
Magnetics - 2622 miles

Bathymetry - 2807 miles

Seismic Reflection - none collected

0 - 0 - 0007 - 11

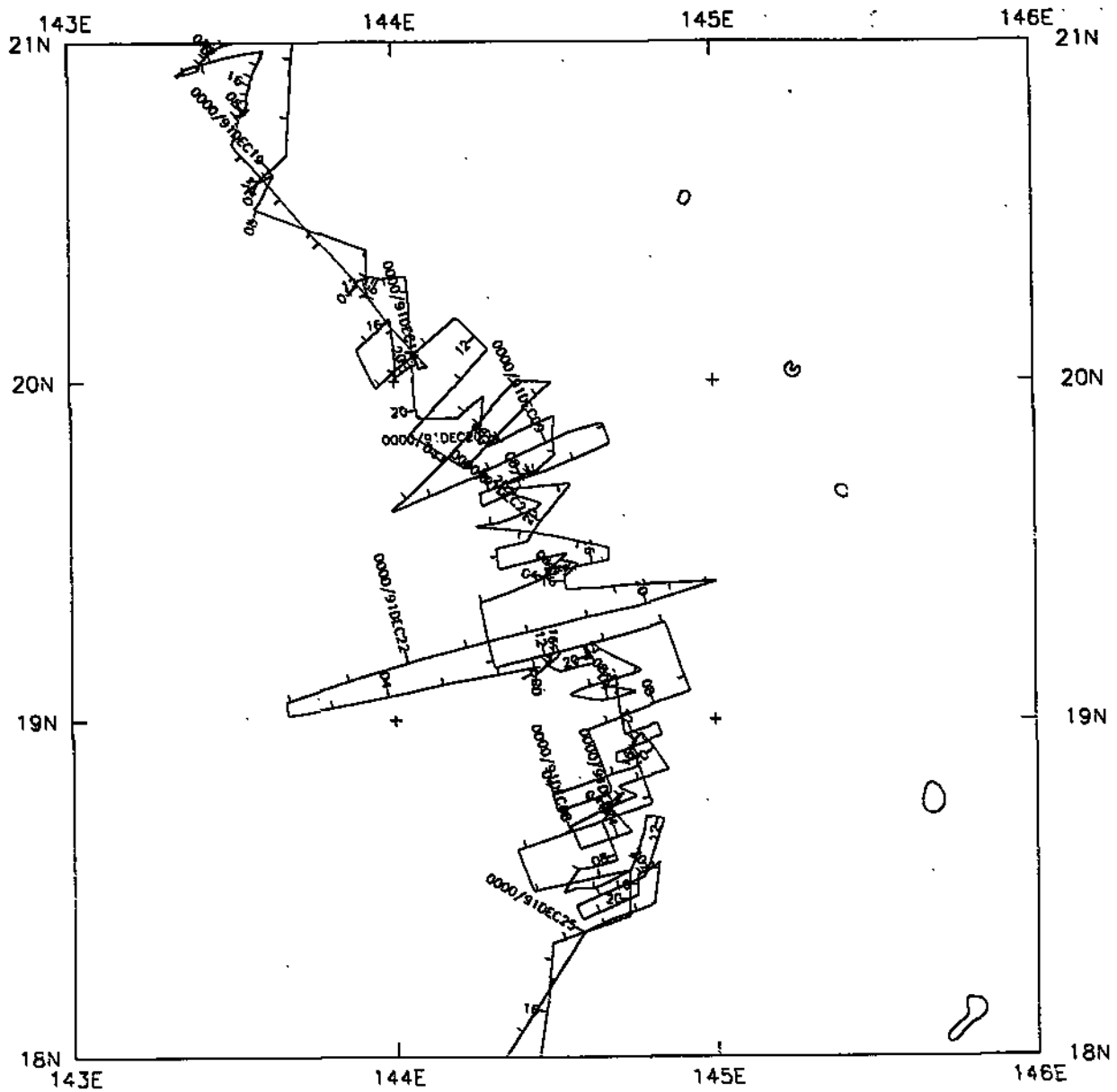
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TUNES, Leg 7 (TUNE07WT)

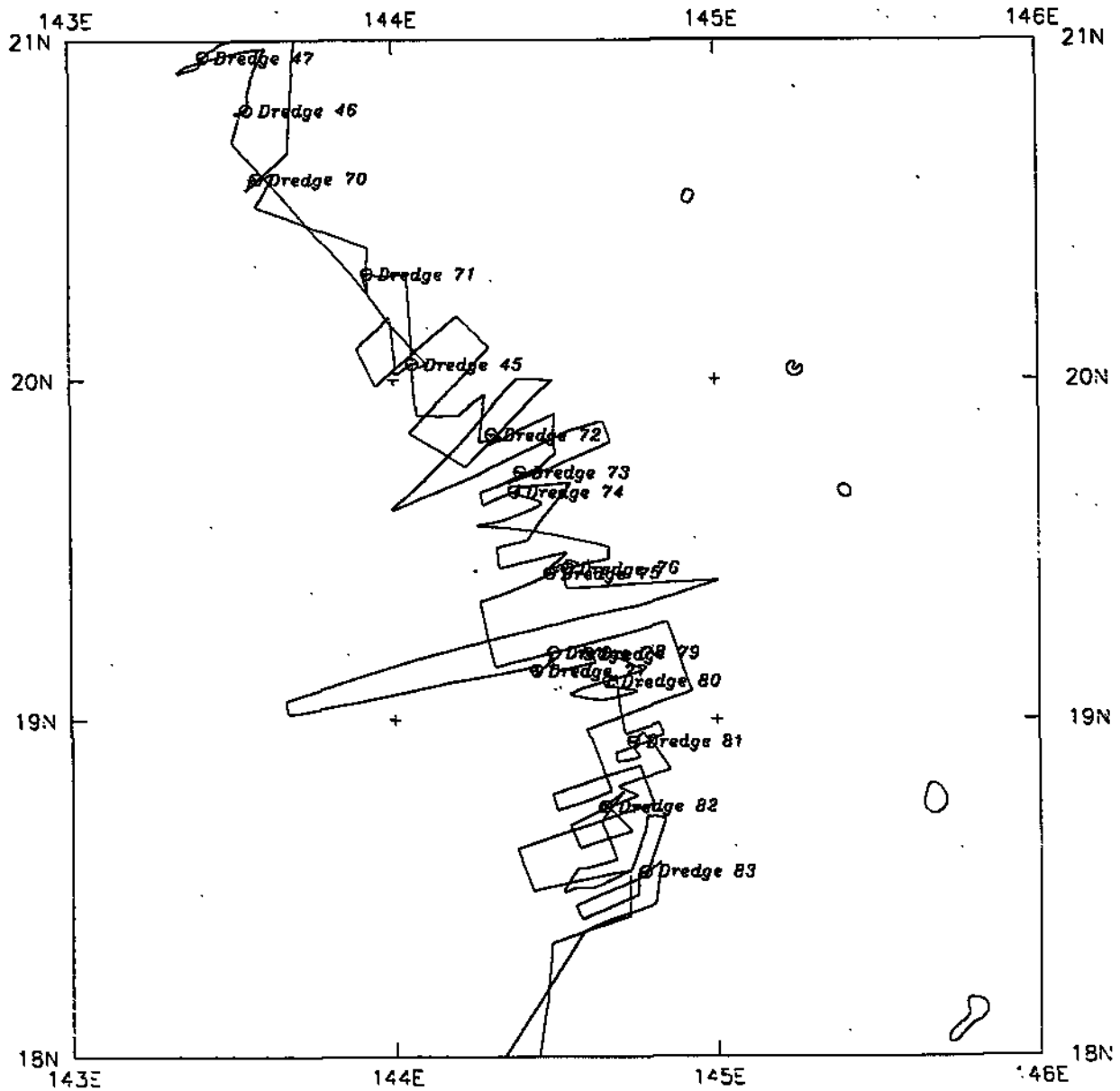
R/V Thomas Washington

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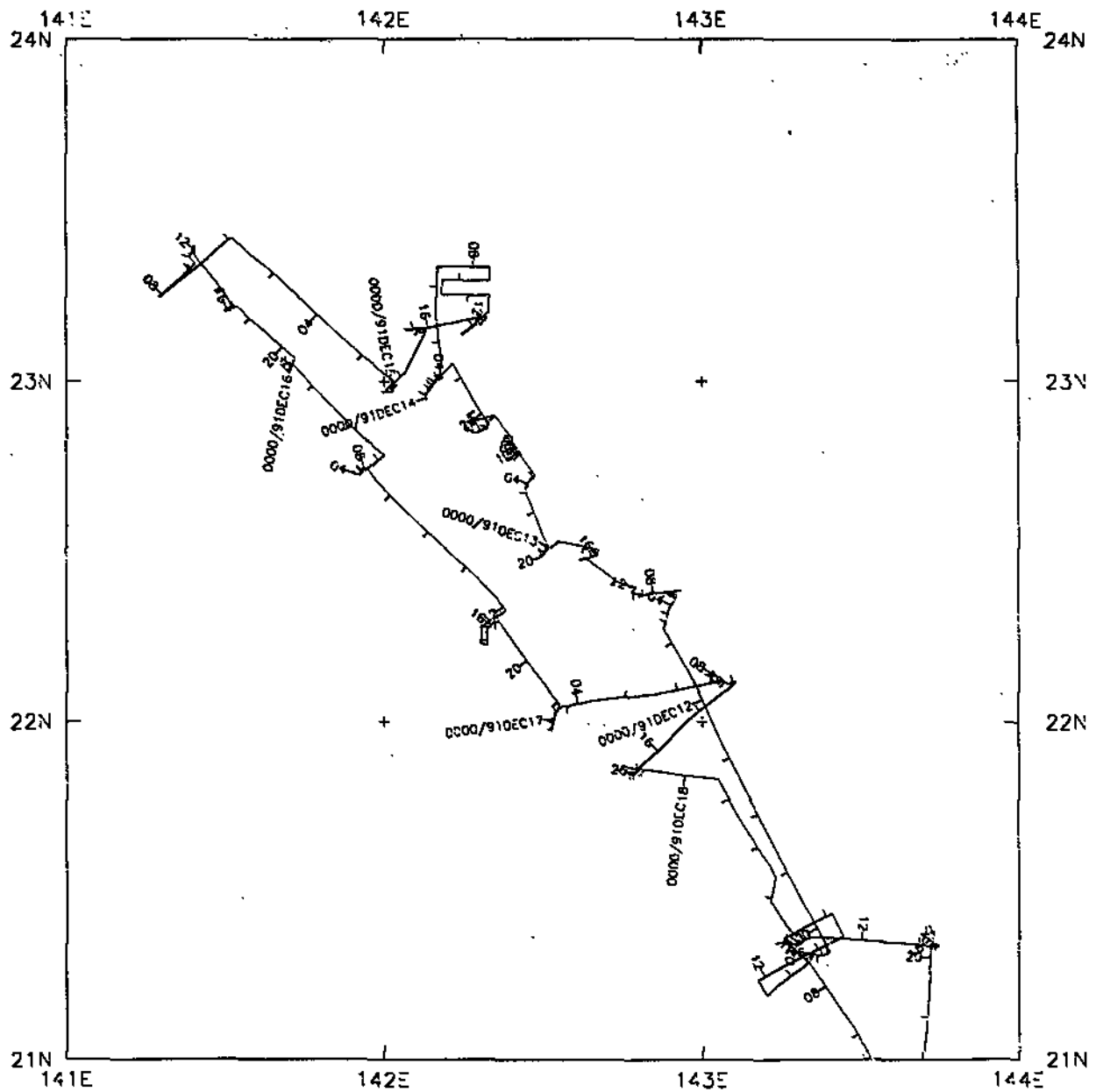
TUNES, Leg 7 (TUNED7WT) Track: 18 N to 21 N latitude

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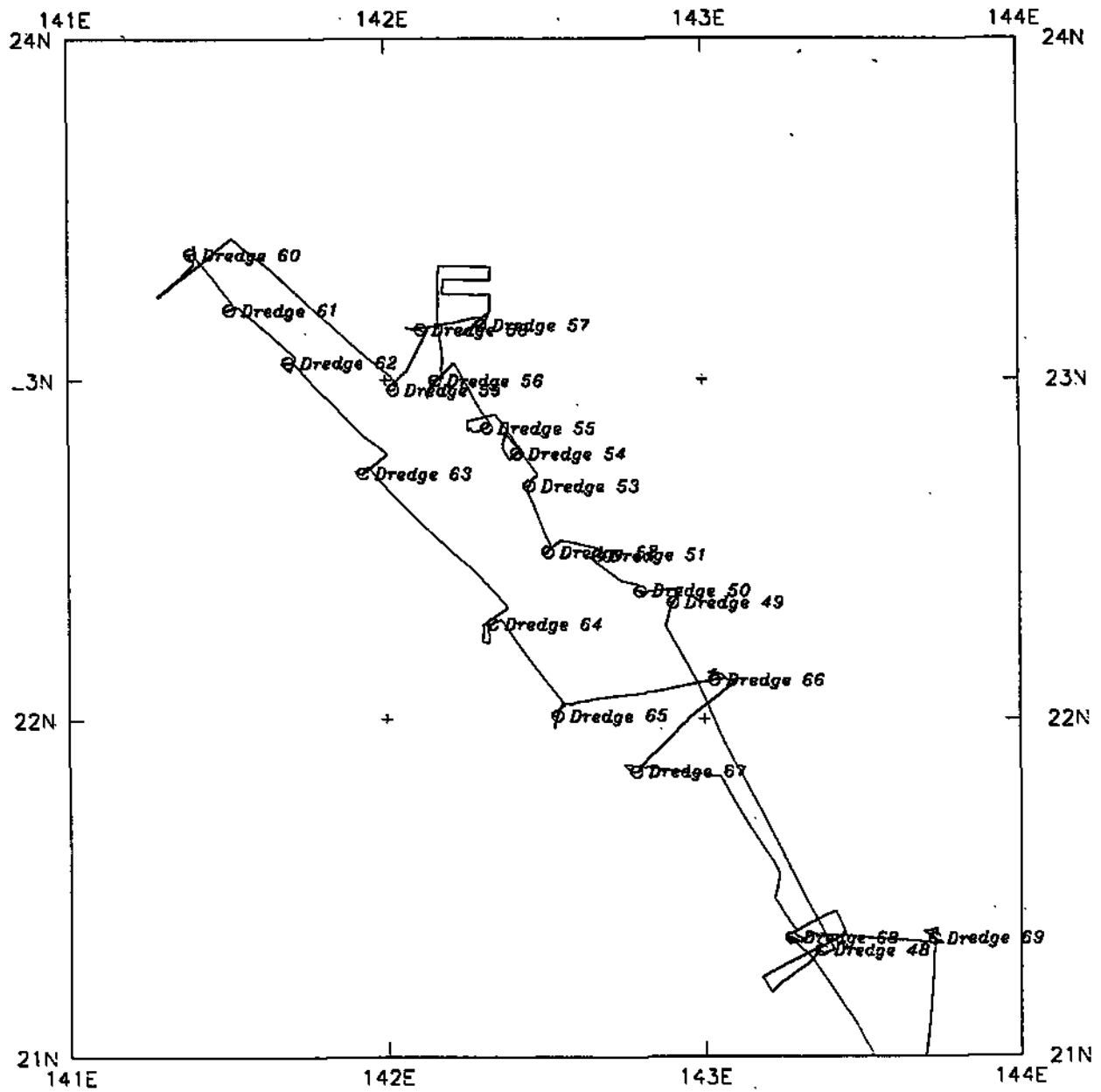
TUNES, Leg 7 (TUNEC7WT) Dredges: 18 N to 21 N latitude

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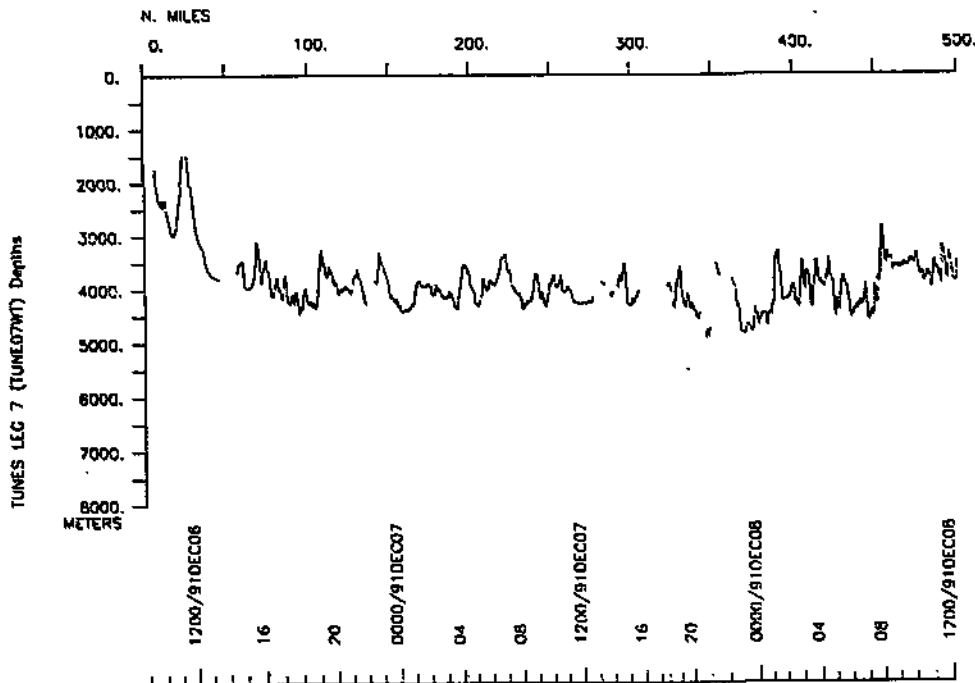
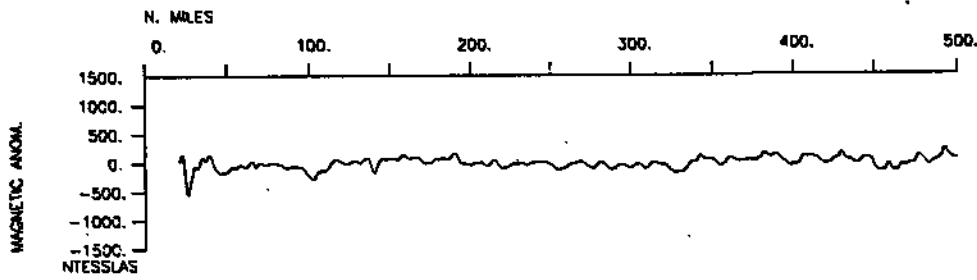
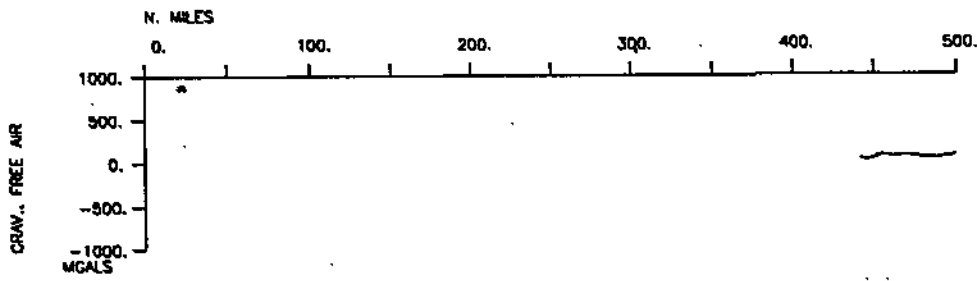
TUNES, Leg 7 (TUNE07WT) Track: 21 N to 24 N latitude

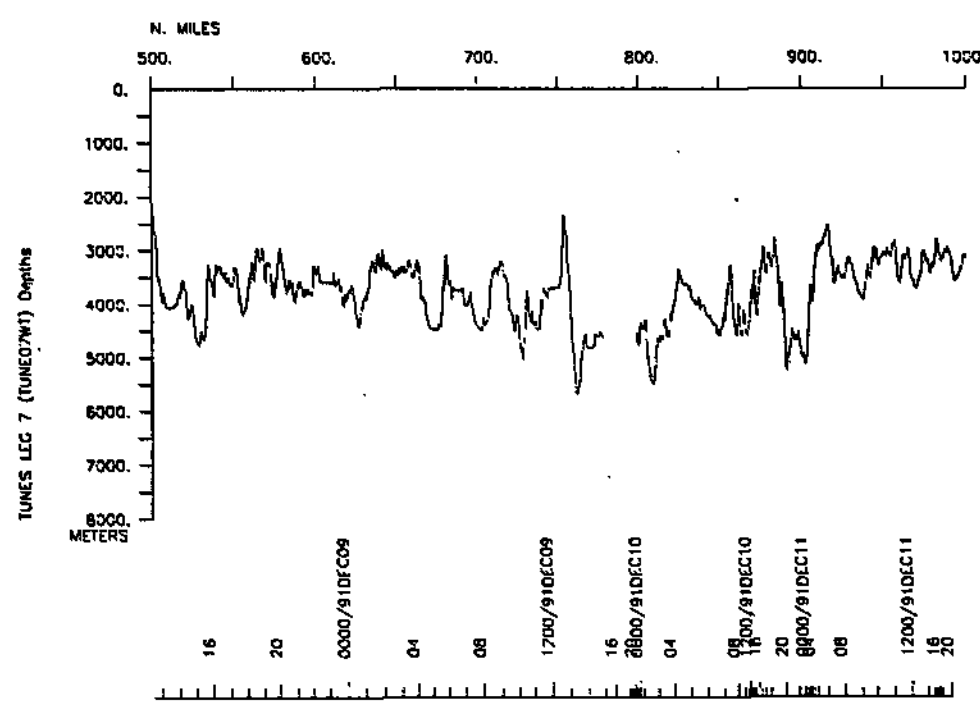
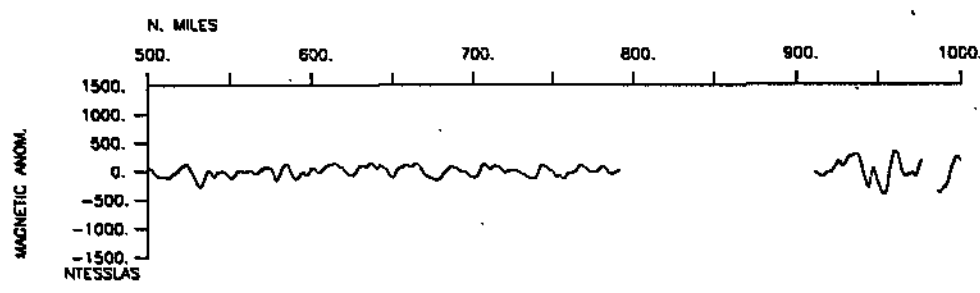
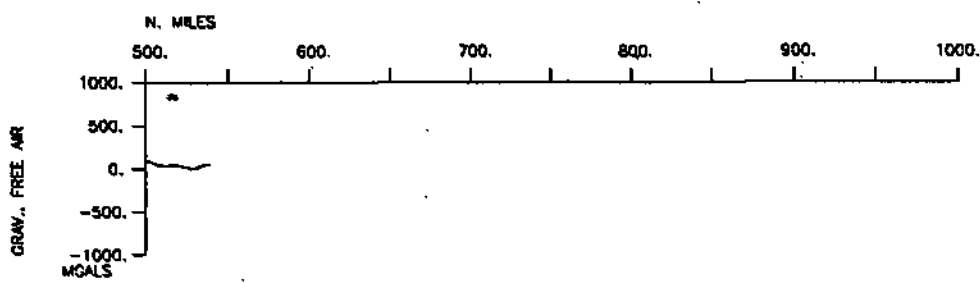
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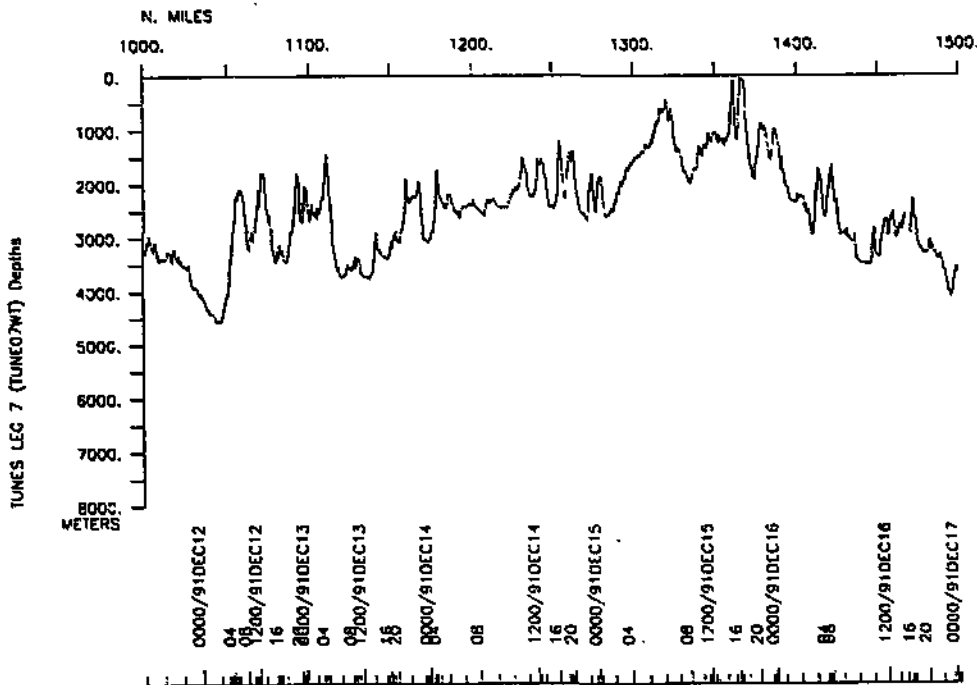
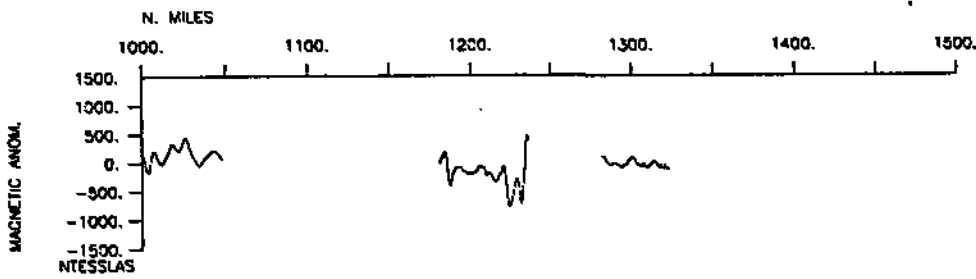
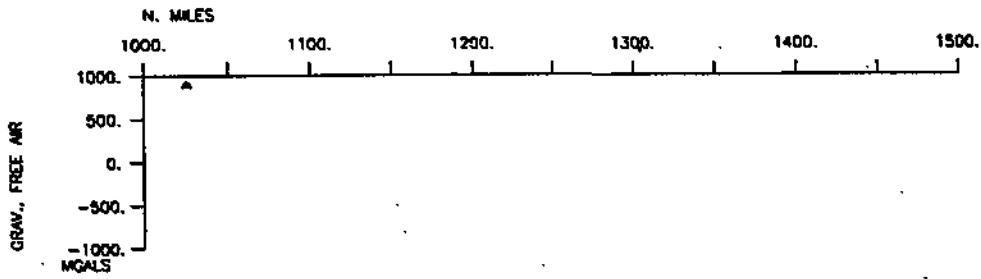


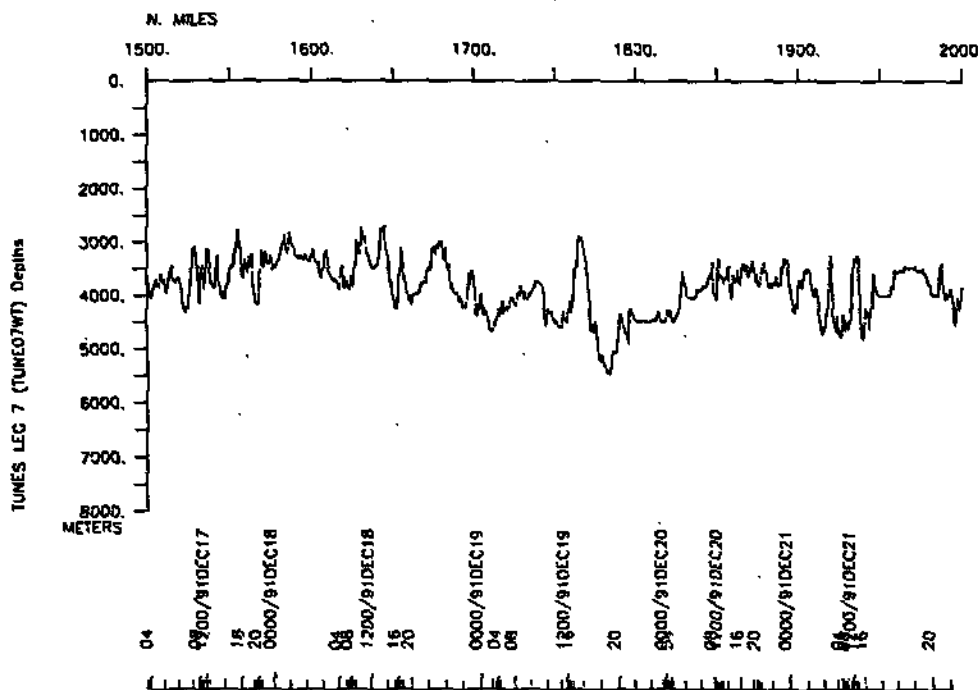
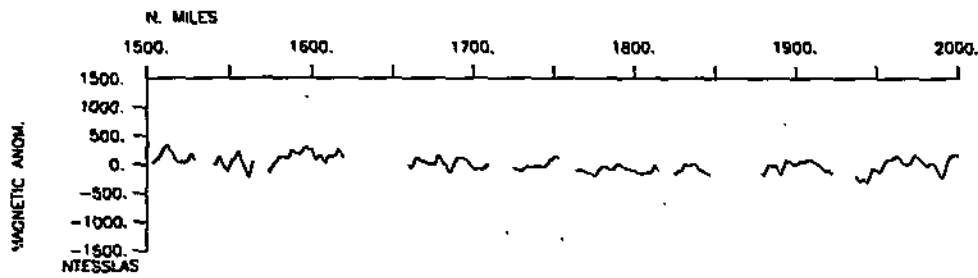
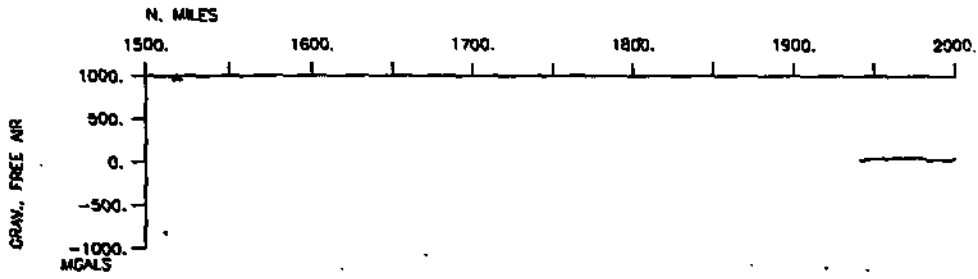
TUNES, Leg 7 (TUNE07WT) Dredges: 21 N to 24 N latitude

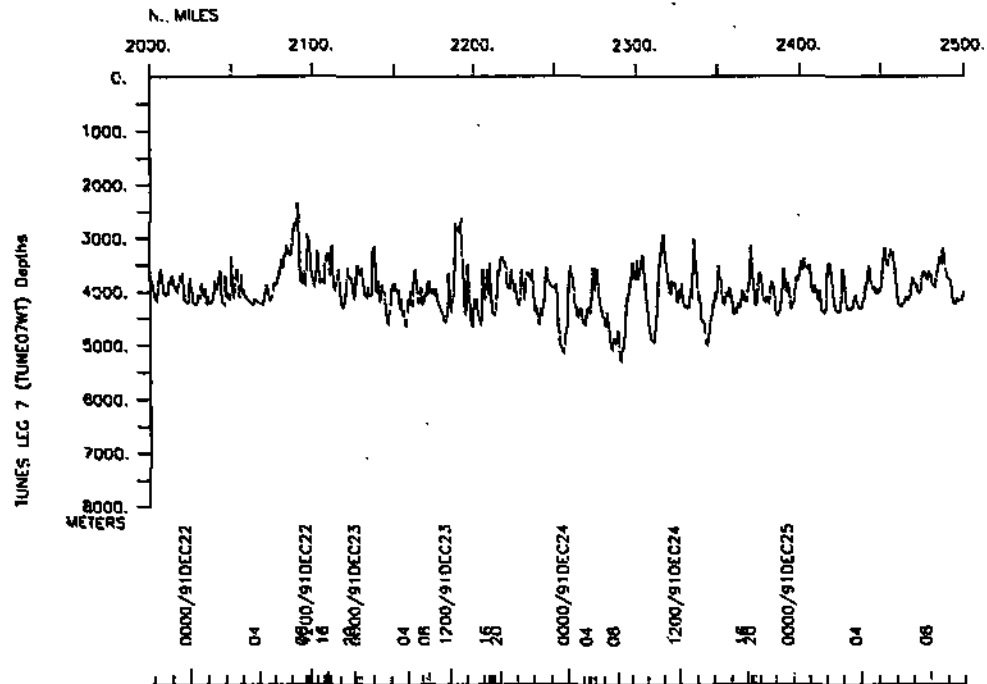
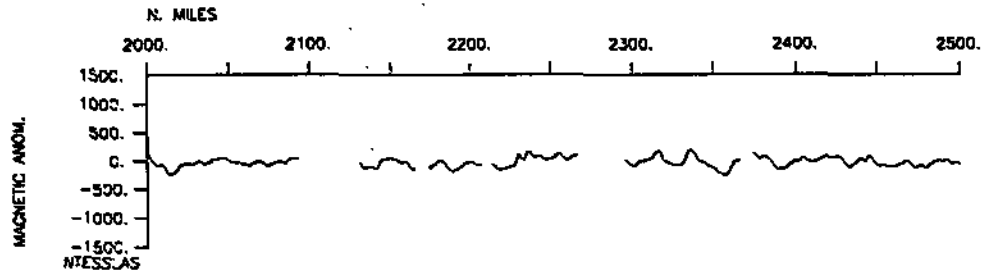
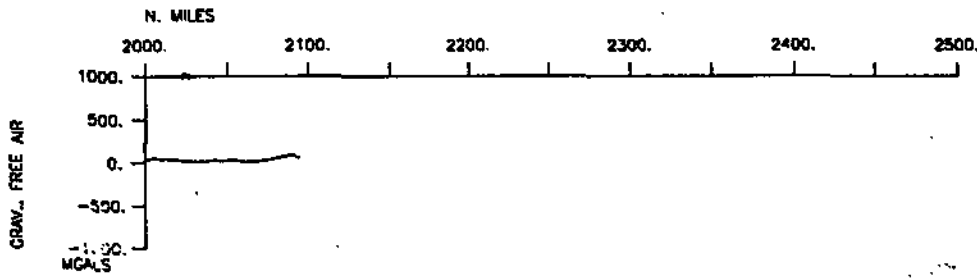
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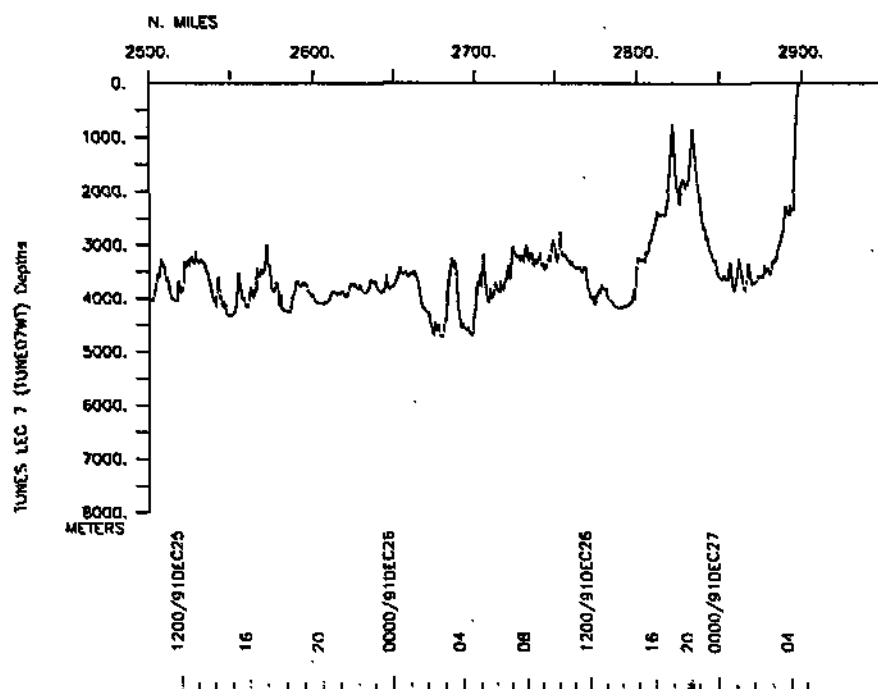
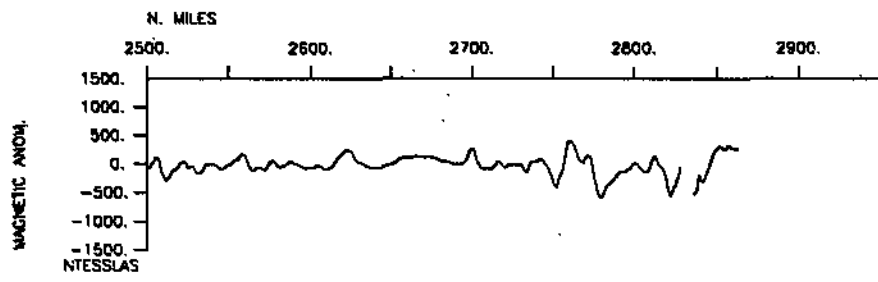
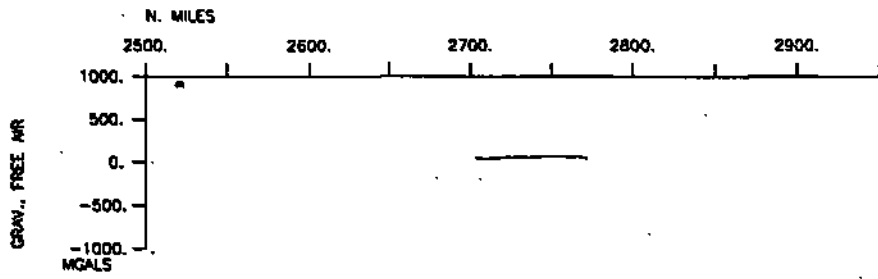












S.I.O. SAMPLE INDEX

(Issued February 1992)

TUNES EXPEDITION

Leg 7

R/V T. Washington

Apra, Guam (6 December 1991)
to
Apra, Guam (27 December 1991)

Chief Scientist:

Sherman Bloomer (Boston 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 further computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

GDC Cruise I.D.# 254

****PORTS****

0820 061291	LGPT B Apra, Guam	13-251N 144-400E	sTUNE07WT
0500 271291	LGPT E Apra, Guam	13-251N 144-400E	sTUNE07WT

****PERSONNEL****

#	***NAME***	***TITLE***	***AFFILIATION***	**CRID**
PECS SIX	Bloomer, S.	Chief Scientist	Boston University	TUNE07WT
PEST SIX	Abdelsalam, M.	Grad student	Univ. of Texas, Dallas	TUNE07WT
PECT STS	Bouchard, G.	Computer tech	Scripps Institution	TUNE07WT
PEST SIX	Chow, J.	Grad student	Boston University	TUNE07WT
PESP UHI	Fryer, P.	Professor	University of Hawaii	TUNE07WT
PESP UHI	Martinez, F.	Post doc	University of Hawaii	TUNE07WT
PEST SIX	Gribble, R.	Grad student	Univ. of Texas, Dallas	TUNE07WT
PEST SIX	Holden, W.	Grad student	Boston University	TUNE07WT
PEST SIX	Lee, J.	Grad student	Univ. of Texas, Dallas	TUNE07WT
PEST SIX	Leeds, J.	Grad student	Boston University	TUNE07WT
PERT STS	Pillard, E.	Resident tech	Scripps Institution	TUNE07WT
PEBO STS	Smith, S.	SeaBeam operator	Scripps Institution	TUNE07WT
PESP SIX	Stern, R.	Professor	Univ. Of Texas, Dallas	TUNE07WT

**** NOTES ****

#Ax 'X' in the (B)egin/(E)nd column following the sample code indicates no
 #samplw 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. Positions are in tenths
 #of minutes.

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#***UNDERWAY DATA CURATOR - S. M. Smith ext. 42752									
#***LOG BOOKS***									
0926	061291			LBUW B	Underway watch log	GDC	13-270N	144-342E	sTUNE07WT
0439	271291			LBUW E	Underway watch log	GDC	13-270N	144-395E	sTUNE07WT
2113	091291			LBSC B	Scientific log	BTU	20-027N	144-034E	sTUNE07WT
2210	261291			LBSC E	Scientific log	BTU	13-376N	144-245E	sTUNE07WT
#*** MAGNETICS (EARTH TOTAL FIELD) No analog records ***									
1041	061291			MGCR B	Magnetics data	GDC	13-322N	144-244E	sTUNE07WT
0439	271291			MGCR E	Magnetics data	GDC	13-270N	144-395E	sTUNE07WT
#*** CONTINUOUS COMPUTER LOGGED GRAVITY ***									
0926	061291			GVCR B	Gravity data	GDC	13-270N	144-342E	sTUNE07WT
0439	271291			GVCR E	Gravity data	GDC	13-270N	144-395E	sTUNE07WT
#*** ECHO SOUNDER RECORDS ***									
0925	061291			MBMR B	Seabeam Monitor R-01	GDC	13-270N	144-344E	sTUNE07WT
1835	081291			MBMR E	Seabeam Monitor R-01	GDC	19-339N	144-170E	sTUNE07WT
1854	081291			MBMR B	Seabeam Monitor R-02	GDC	19-344N	144-169E	sTUNE07WT
1416	121291			MBMR E	Seabeam Monitor R-02	GDC	22-286N	142-386E	sTUNE07WT
1424	121291			MBMR B	Seabeam Monitor R-03	GDC	22-286N	142-387E	sTUNE07WT
0200	161291			MBMR E	Seabeam Monitor R-03	GDC	22-522N	141-533E	sTUNE07WT
0209	161291			MBMR B	Seabeam Monitor R-04	GDC	22-512N	141-544E	sTUNE07WT
1730	191291			MBMR E	Seabeam Monitor R-04	GDC	20-184N	144-005E	sTUNE07WT
1737	191291			MBMR B	Seabeam Monitor R-05	GDC	20-185N	144-013E	sTUNE07WT
0830	231291			MBMR E	Seabeam Monitor R-05	GDC	19-071N	144-401E	sTUNE07WT
0836	231291			MBMR B	Seabeam Monitor R-06	GDC	19-071N	144-402E	sTUNE07WT
0439	271291			MBMR E	Seabeam Monitor R-06	GDC	13-270N	144-395E	sTUNE07WT

#GMT #TIME #	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#*** SEABEAM SWATH BOOKS ***									
0925	061291			MBSB B	Seabeam swath bk 01	GDC	13-270N	144-344E	sTUNE07WT
1350	081291			MBSB E	Seabeam swath bk 01	GDC	19-191N	144-162E	sTUNE07WT
1350	081291			MBSB B	Seabeam swath bk 02	GDC	19-191N	144-162E	sTUNE07WT
0935	111291			MBSB E	Seabeam swath bk 02	GDC	21-238N	143-195E	sTUNE07WT
0935	111291			MBSB B	Seabeam swath bk 03	GDC	21-238N	143-195E	sTUNE07WT
1653	141291			MBSB E	Seabeam swath bk 03	GDC	23-090N	142-053E	sTUNE07WT
1653	141291			MBSB B	Seabeam swath bk 04	GDC	23-090N	142-053E	sTUNE07WT
1340	171291			MBSB E	Seabeam swath bk 04	GDC	22-066N	143-048E	sTUNE07WT
1340	171291			MBSB B	Seabeam swath bk 05	GDC	22-066N	143-048E	sTUNE07WT
2106	201291			MBSB E	Seabeam swath bk 05	GDC	19-408N	144-229E	sTUNE07WT
2106	201291			MBSB B	Seabeam swath bk 06	GDC	19-408N	144-229E	sTUNE07WT
2105	231291			MBSB E	Seabeam swath bk 06	GDC	18-491N	144-443E	sTUNE07WT
2105	231291			MBSB B	Seabeam swath bk 07	GDC	18-491N	144-443E	sTUNE07WT
0307	261291			MBSB E	Seabeam swath bk 07	GDC	13-491N	143-050E	sTUNE07WT
0307	261291			MBSB B	Seabeam swath bk 08	GDC	13-491N	143-050E	sTUNE07WT
0330	271291			MBSB E	Seabeam swath bk 08	GDC	13-282N	144-263E	sTUNE07WT
#*** ECHO SOUNDER RECORDS ***									
1154	061291			DPR3 B	3.5 & dredge R-01	GDC	13-436N	144-267E	sTUNE07WT
1400	101291			DPR3 E	3.5 & dredge R-01	GDC	20-499N	143-328E	sTUNE07WT
1425	101291			DPR3 B	3.5 & dredge R-02	GDC	20-503N	143-327E	sTUNE07WT
1120	121291			DPR3 E	3.5 & dredge R-02	GDC	22-229N	142-469E	sTUNE07WT
1416	121291			DPR3 B	3.5 & dredge R-03	GDC	22-286N	142-386E	sTUNE07WT
0024	141291			DPR3 E	3.5 & dredge R-03	GDC	22-579N	142-081E	sTUNE07WT
0051	141291			DPR3 B	3.5 & dredge R-04	GDC	22-590N	142-087E	sTUNE07WT
0648	161291			DPR3 E	3.5 & dredge R-04	GDC	22-439N	141-558E	sTUNE07WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1404	161291			DPR3 B	3.5 & dredge R-05	GDC	22-148N	142-193E	sTUNE07WT
1520	181291			DPR3 E	3.5 & dredge R-05	GDC	21-209N	143-436E	sTUNE07WT
1526	181291			DPR3 B	3.5 & dredge R-06	GDC	21-210N	143-434E	sTUNE07WT
1240	201291			DPR3 E	3.5 & dredge R-06	GDC	19-434N	144-249E	sTUNE07WT
1739	201291			DPR3 B	3.5 & dredge R-07	GDC	19-399N	144-217E	sTUNE07WT
0830	231291			DPR3 E	3.5 & dredge R-07	GDC	19-071N	144-401E	sTUNE07WT
1449	231291			DPR3 B	3.5 & dredge R-08	GDC	18-555N	144-447E	sTUNE07WT
2210	261291			DPR3 E	3.5 & dredge R-08	GDC	13-376N	144-245E	sTUNE07WT

*** EXPENDABLE BATHYTHERMOGRAPH RECORD ***

0623	081291			BTXP	xbt 0001 Probe T-4	GDC	18-562N	144-367E	sTUNE07WT
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*** DREDGES ***

*** R Stern, University of Texas at Austin, also has dredge samples ***

2113	091291			DRRO B	Dredge 45 5250-4800M	BTU	20-027N	144-034E	sTUNE07WT
2353	091291			DRRO E	Dredge 45 5250-4800M	BTU	20-022N	144-046E	sTUNE07WT
1155	101291			DRRO B	Dredge 46 3700M	BTU	20-476N	143-326E	sTUNE07WT
1230	101291			DRRO E	Dredge 46 3700M	BTU	20-482N	143-328E	sTUNE07WT
0025	111291			DRRO B	Dredge 47 5106-3678M	BTU	20-570N	143-248E	sTUNE07WT
0355	111291			DRRO E	Dredge 47 5106-3678M	BTU	20-588N	143-273E	sTUNE07WT
1605	111291			DRRO B	Dredge 48 2864M	BTU	21-189N	143-209E	sTUNE07WT
1717	111291			DRRO E	Dredge 48 2864M	BTU	21-185N	143-217E	sTUNE07WT
0355	121291			DRRO B	Dredge 49 3035-2241M	BTU	22-204N	142-541E	sTUNE07WT
0551	121291			DRRO E	Dredge 49 3035-2241M	BTU	22-224N	142-546E	sTUNE07WT
1004	121291			DRRO B	Dredge 50 2762-2425M	BTU	22-225N	142-479E	sTUNE07WT
1109	121291			DRRO E	Dredge 50 2762-2425M	BTU	22-227N	142-468E	sTUNE07WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1527	121291			DRRO B	Dredge 51 3365-3138M	BTU	22-290N	142-398E	sTUNE07WT
1637	121291			DRRO E	Dredge 51 3365-3138M	BTU	22-291N	142-403E	sTUNE07WT
2143	121291			DRRO B	Dredge 52 2415-2090M	BTU	22-295N	142-305E	sTUNE07WT
2310	121291			DRRO E	Dredge 52 2415-2090M	BTU	22-305N	142-309E	sTUNE07WT
0248	131291			DRRO B	Dredge 53 1791-1515M	BTU	22-413N	142-271E	sTUNE07WT
0348	131291			DRRO E	Dredge 53 1791-1515M	BTU	22-418N	142-273E	sTUNE07WT
0848	131291			DRRO B	Dredge 54 3458-3431M	BTU	22-469N	142-247E	sTUNE07WT
0948	131291			DRRO E	Dredge 54 3458-3431M	BTU	22-473N	142-249E	sTUNE07WT
1653	131291			DRRO B	Dredge 55 3205-3125	BTU	22-514N	142-192E	sTUNE07WT
1739	131291			DRRO E	Dredge 55 3205-3125M	BTU	22-517N	142-195E	sTUNE07WT
0200	141291			DRRO B	Dredge 56 2627-1722M	BTU	22-599N	142-094E	sTUNE07WT
0416	141291			DRRO E	Dredge 56 2627-1722M	BTU	23-005N	142-110E	sTUNE07WT
1247	141291			DRRO B	Dredge 57 1588-1550M	BTU	23-097N	142-181E	sTUNE07WT
1329	141291			DRRO E	Dredge 57 1588-1550M	BTU	23-100N	142-185E	sTUNE07WT
1800	141291			DRRO B	Dredge 58 1427M	BTU	23-089N	142-066E	sTUNE07WT
1847	141291			DRRO E	Dredge 58 1427M	BTU	23-084N	142-072E	sTUNE07WT
2257	141291			DRRO B	Dredge 59 2352-1898M	BTU	22-582N	142-013E	sTUNE07WT
0045	151291			DRRO E	Dredge 59 2352-1898M	BTU	22-590N	142-016E	sTUNE07WT
1033	151291			DRRO B	Dredge 60 1276-1074M	BTU	23-221N	141-232E	sTUNE07WT
1124	151291			DRRO E	Dredge 60 1276-1074M	BTU	23-224N	141-240E	sTUNE07WT
1613	151291			DRRO B	Dredge 61 960-675M	BTU	23-123N	141-306E	sTUNE07WT
1722	151291			DRRO E	Dredge 61 960-675M	BTU	23-125N	141-308E	sTUNE07WT
2203	151291			DRRO B	Dredge 62 1121-1046M	BTU	23-030N	141-415E	sTUNE07WT
2318	151291			DRRO E	Dredge 62 1121-1046M	BTU	23-032N	141-419E	sTUNE07WT
0500	161291			DRRO B	Dredge 63 2208-1977M	BTU	22-435N	141-555E	sTUNE07WT
0650	161291			DRRO E	Dredge 63 2208-1977M	BTU	22-439N	141-557E	sTUNE07WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1554 1732	161291 161291			DRRO B DRRO E	Dredge 64 2787-2330M Dredge 64 2787-2330M	BTU BTU	22-167N 22-173N	142-201E 142-208E	STUNE07WT STUNE07WT
0001	171291			DRRO X	Dredge 65	BTU	22-006N	142-323E	STUNE07WT
1039 1211	171291 171291			DRRO B DRRO E	Dredge 66 3705-3107M Dredge 66 3705-3107M	BTU BTU	22-068N 22-071N	143-018E 143-030E	STUNE07WT STUNE07WT
1900 2116	171291 171291			DRRO B DRRO E	Dredge 67 3730-3106M Dredge 67 3730-3106M	BTU BTU	21-507N 21-514N	142-469E 142-474E	STUNE07WT STUNE07WT
0635 0849	181291 181291			DRRO B DRRO E	Dredge 68 3896-3802M Dredge 68 3896-3802M	BTU BTU	21-212N 21-204N	143-158E 143-175E	STUNE07WT STUNE07WT
1529 1722	181291 181291			DRRO B DRRO E	Dredge 69 4083-3083M Dredge 69 4083-3083M	BTU BTU	21-210N 21-221N	143-434E 143-416E	STUNE07WT STUNE07WT
0318 0522	191291 191291			DRRO B DRRO E	Dredge 70 4457-4305M Dredge 70 4457-4305M	BTU BTU	20-354N 20-357N	143-344E 143-358E	STUNE07WT STUNE07WT
1322 1520	191291 191291			DRRO B DRRO E	Dredge 71 4427-4305M Dredge 71 4427-4305M	BTU BTU	20-186N 20-183N	143-549E 143-565E	STUNE07WT STUNE07WT
0109 0255	201291 201291			DRRO B DRRO E	Dredge 72 4454-4384M Dredge 72 4454-4384M	BTU BTU	19-503N 19-487N	144-180E 144-174E	STUNE07WT STUNE07WT
1001 1229	201291 201291			DRRO B DRRO E	Dredge 73 4034-3602M Dredge 73 4034-3602M	BTU BTU	19-437N 19-433N	144-232E 144-248E	STUNE07WT STUNE07WT
1900 2019	201291 201291			DRRO B DRRO E	Dredge 74 3688-3629M Dredge 74 3688-3629M	BTU BTU	19-401N 19-400N	144-222E 144-226E	STUNE07WT STUNE07WT
0529 0625	211291 211291			DRRO B DRRO E	Dredge 75 4449-4383M Dredge 75 4449-4383M	BTU BTU	19-256N 19-265N	144-288E 144-289E	STUNE07WT STUNE07WT

#GMT #TIME	DMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1110 1305	211291 211291			DRRO B DRRO E	Dredge 76 4480-3363M Dredge 76 4480-3363M	BTU BTU	19-265N 19-279N	144-322E 144-321E	sTUNE07WT sTUNE07WT
0856 1102	221291 221291			DRRO B DRRO E	Dredge 77 3824-3064M Dredge 77 3824-3064M	BTU BTU	19-086N 19-085N	144-263E 144-253E	sTUNE07WT sTUNE07WT
1556 1640	221291 221291			DRRO B DRRO E	Dredge 78 3371-3339M Dredge 78 3371-3339M	BTU BTU	19-117N 19-113N	144-295E 144-293E	sTUNE07WT sTUNE07WT
2229 2320	221291 221291			DRRO B DRRO E	Dredge 79 3900-5317M Dredge 79 3900-5317M	BTU BTU	19-115N 19-117N	144-360E 144-366E	sTUNE07WT sTUNE07WT
0713 0829	231291 231291			DRRO B DRRO E	Dredge 80 4040-4051M Dredge 80 4040-4051M	BTU BTU	19-067N 19-071N	144-399E 144-401E	sTUNE07WT sTUNE07WT
1640 1748	231291 231291			DRRO B DRRO E	Dredge 81 3965-3525M Dredge 81 3965-3525M	BTU BTU	18-560N 18-563N	144-442E 144-448E	sTUNE07WT sTUNE07WT
0319 0412	241291 241291			DRRO B DRRO E	Dredge 82 4299-4341M Dredge 82 4299-4341M	BTU BTU	18-445N 18-449N	144-391E 144-395E	sTUNE07WT sTUNE07WT
1810 2007	241291 241291			DRRO B DRRO E	Dredge 83 3497-3279M Dredge 83 3497-3279M	BTU BTU	18-329N 18-334N	144-463E 144-473E	sTUNE07WT sTUNE07WT
1931 2147	261291 261291			DRRO B DRRO E	Dredge 84 1774-889M Dredge 84 1774-889M	BTU BTU	13-357N 13-375N	144-235E 144-244E	sTUNE07WT sTUNE07WT
#					End Sample Index				TUNE07WT