

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

TUNES EXPEDITION

LEG 8
=====

R/V Thomas Washington

(Issued December 1991)

Kwajalein, Marshall Islands (31 October 1991)
to
Apra, Guam (2 December 1991)

Chief Scientist:

Hubert Staudigel (Scripps Institution of Oceanography)

Resident Marine Technician - Ron Comer

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.
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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.

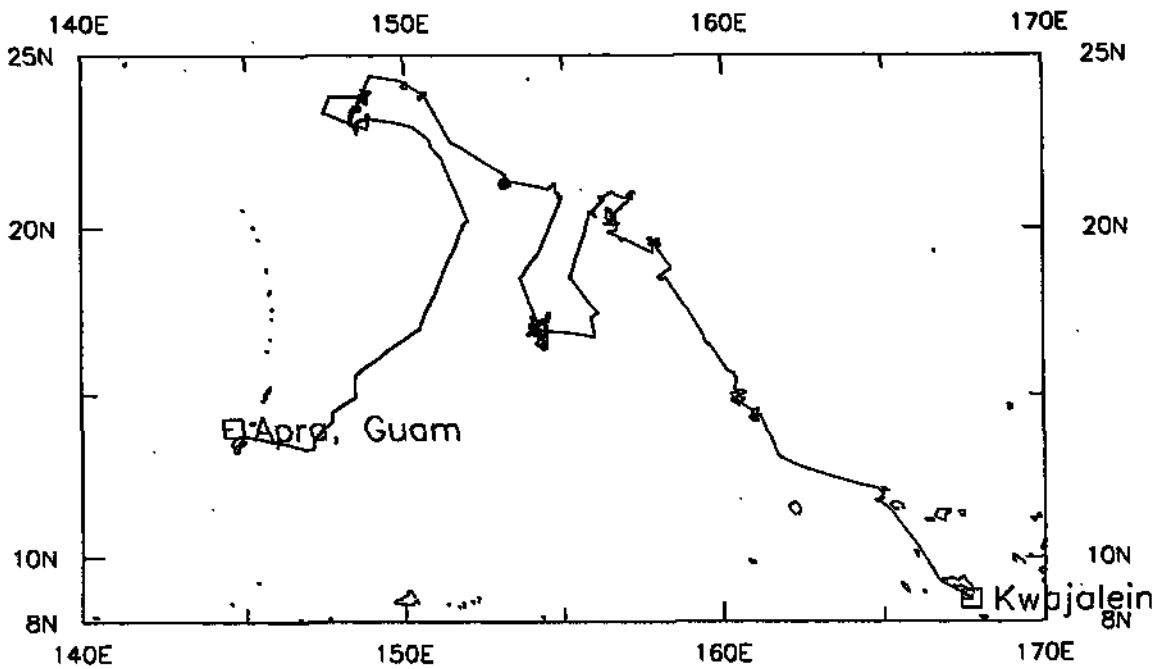
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (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 6 (TUNE06WT)

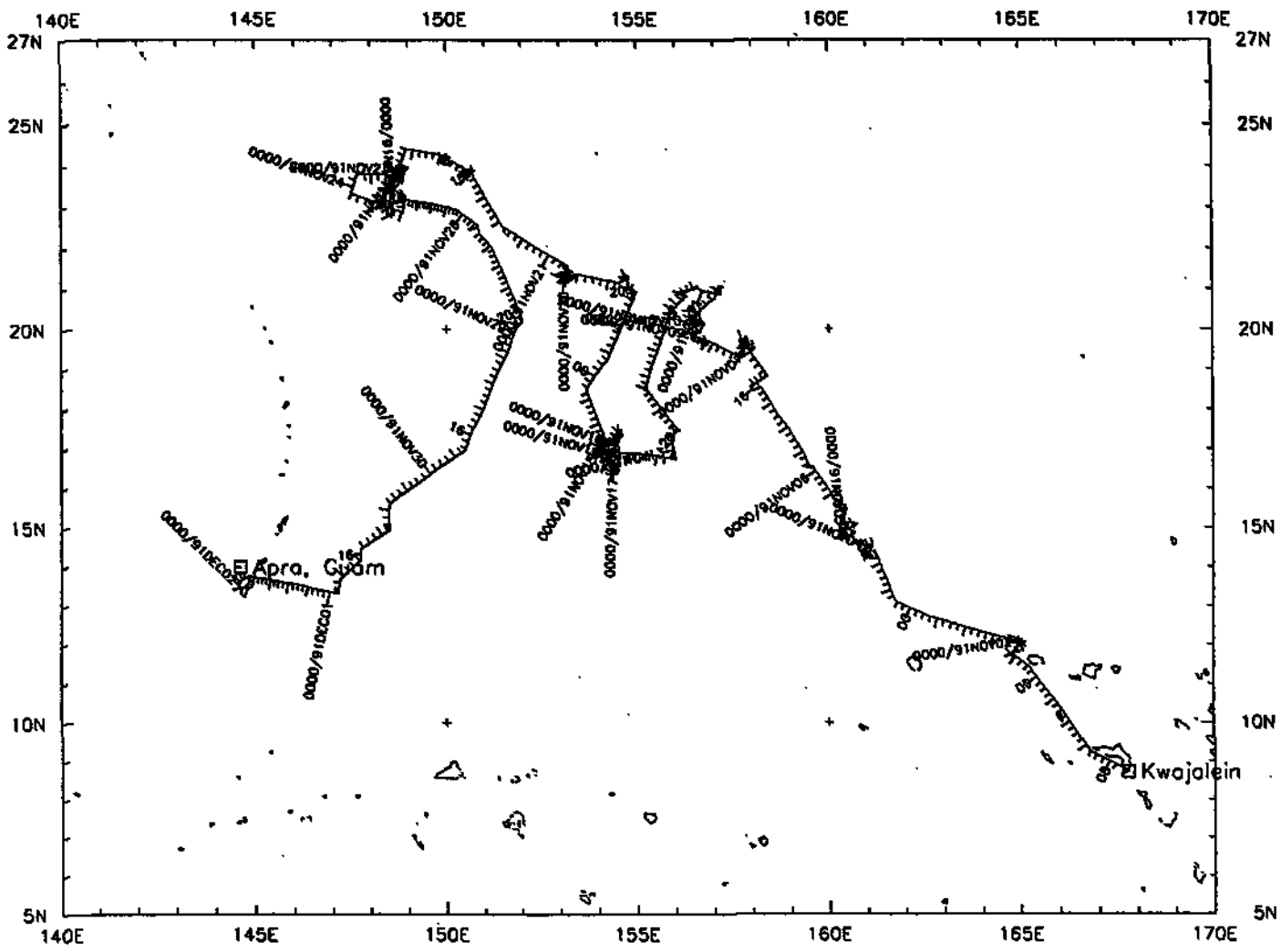
*

TUNES EXPEDITION LEG 6

CHIEF SCIENTIST: Hubert Staudigel
 Scripps Institution of Oceanography
 PORTS: Kwajalein, Marshall Is. - Apra, Guam
 DATES: 31 October - 2 December 1991
 SHIP: R/V T. Washington

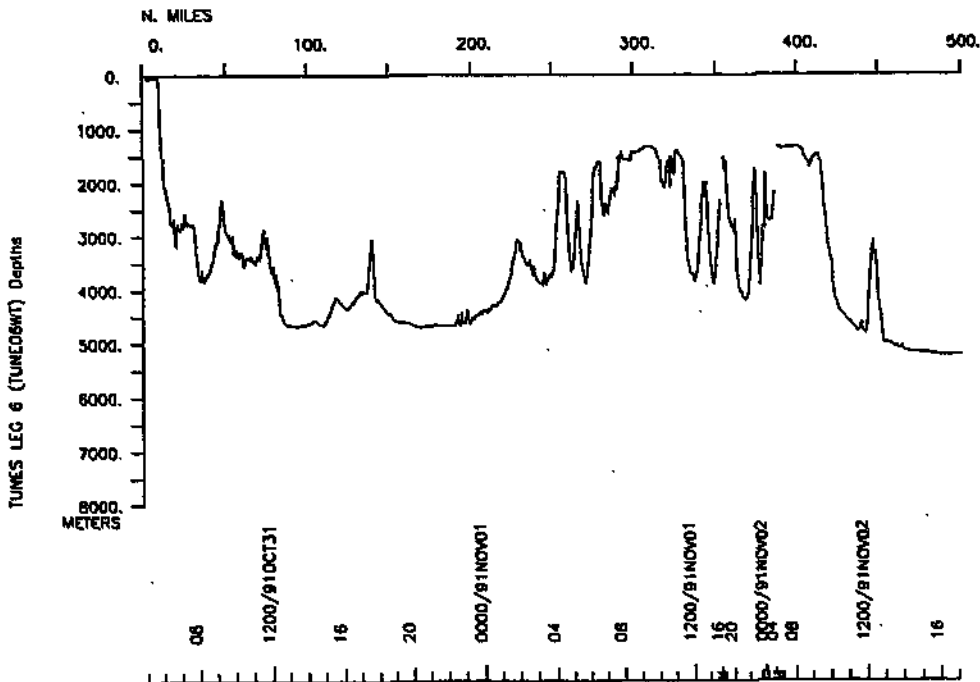
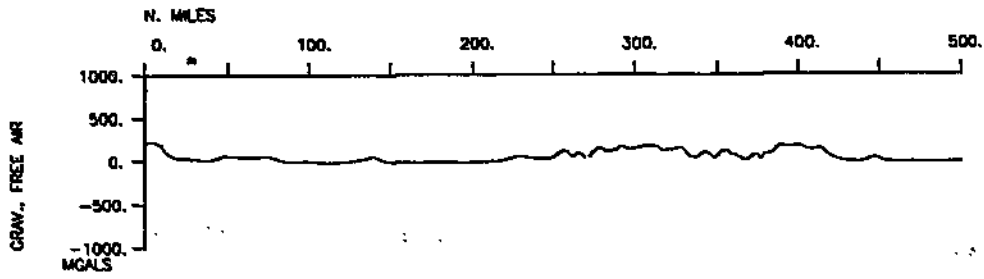
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

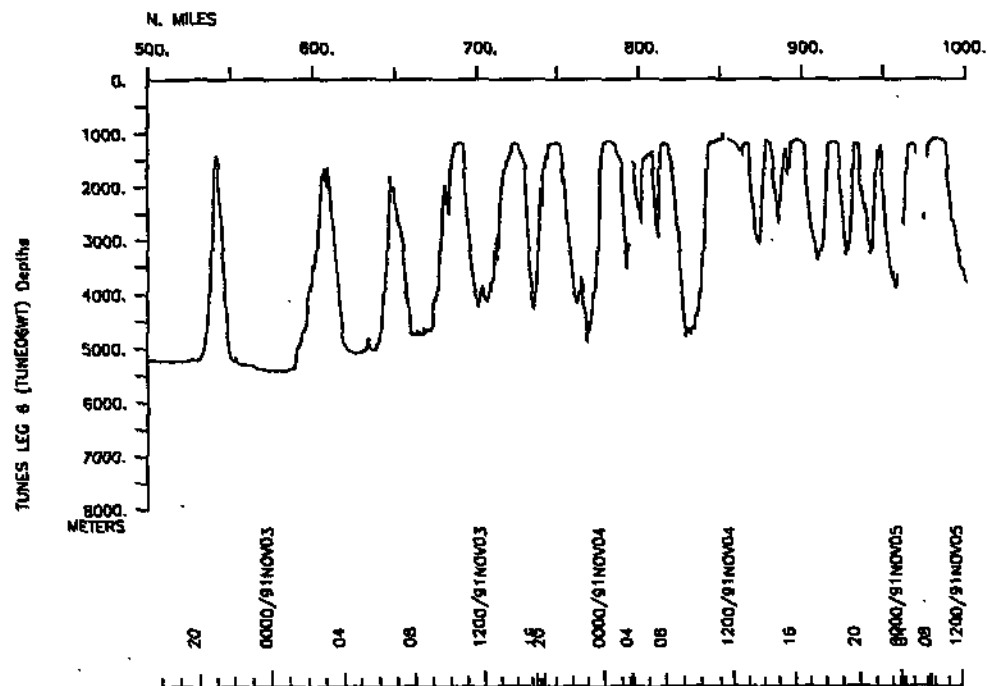
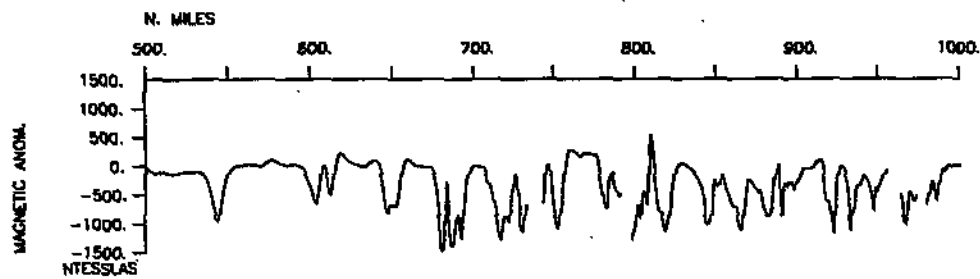
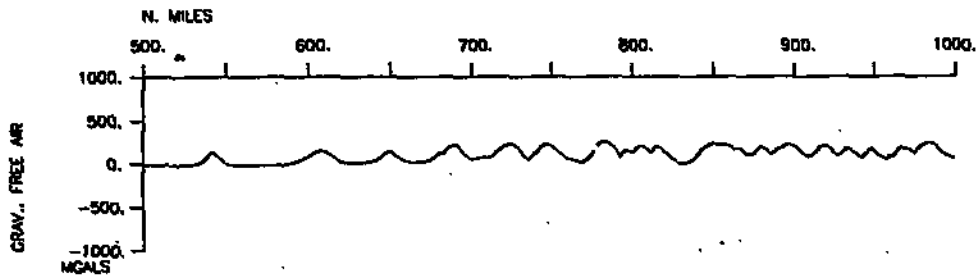
Cruise - 6029 miles	Magnetics - 5455 miles
Bathymetry - 5790 miles	Seismic Reflection - none collected

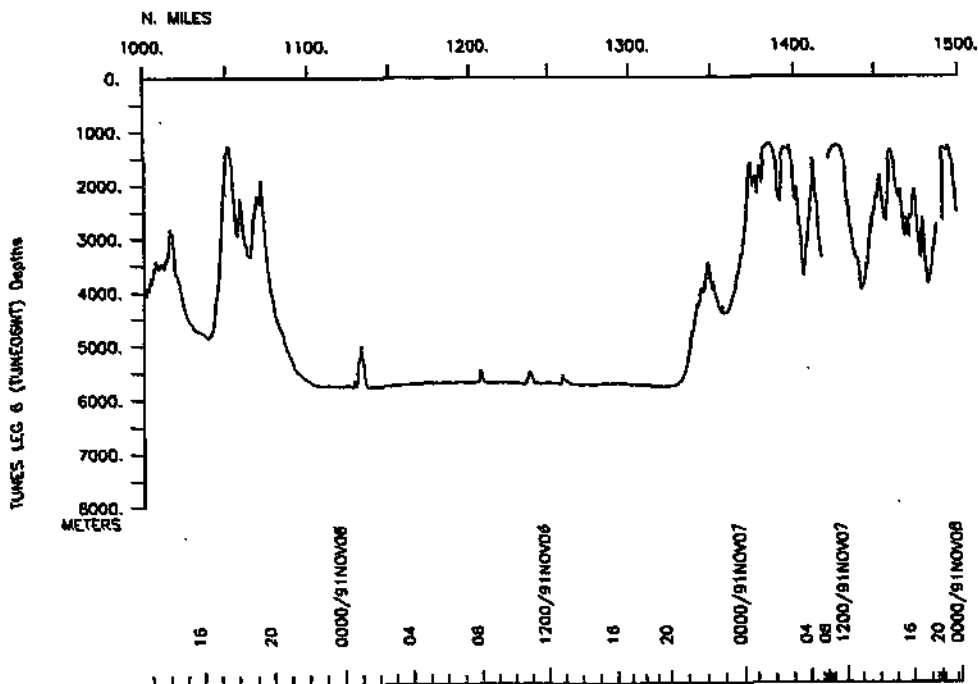
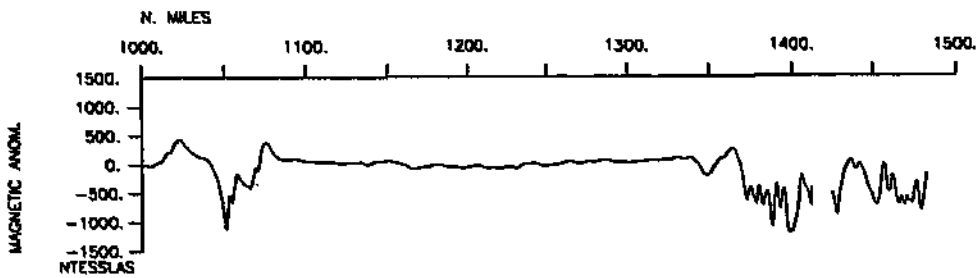
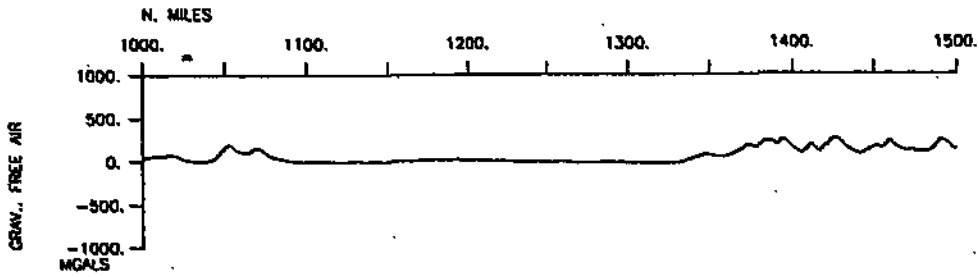


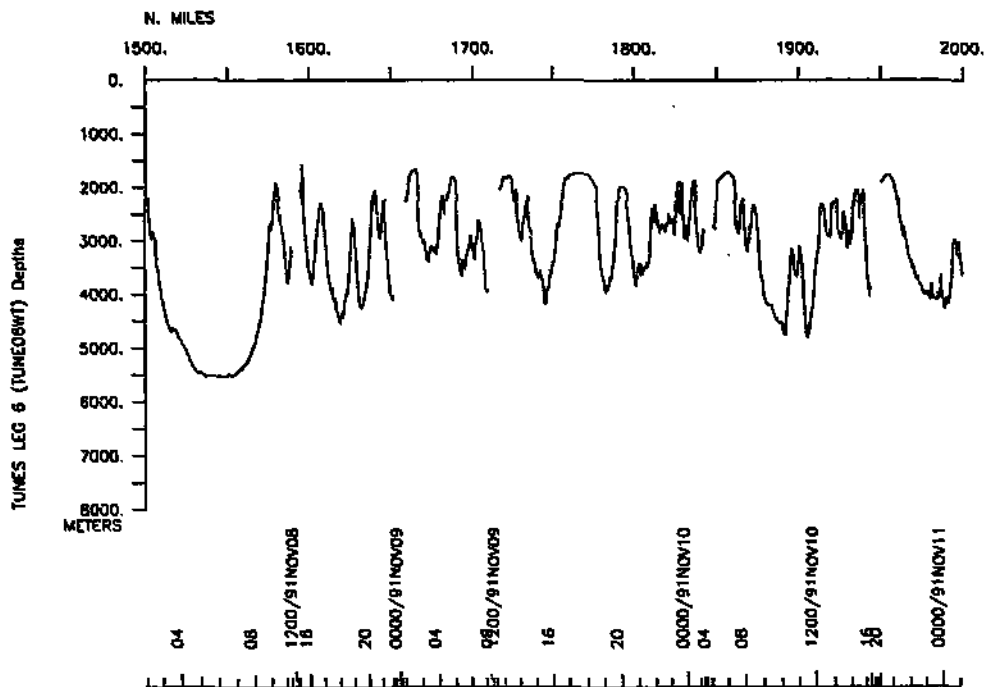
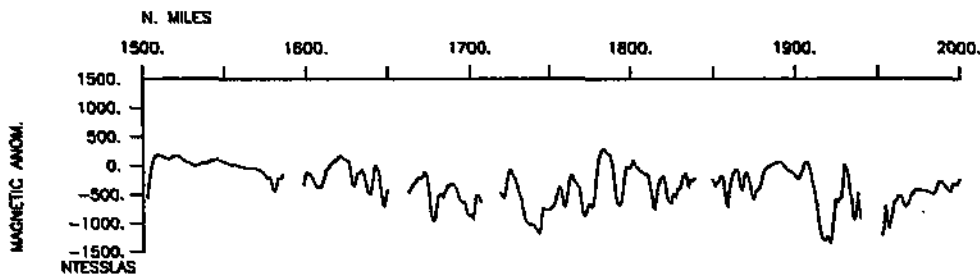
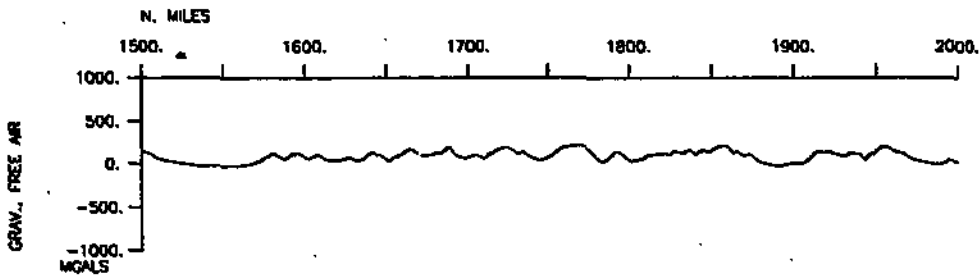
TUNES EXPEDITION Leg 6 (TUNE06WT)

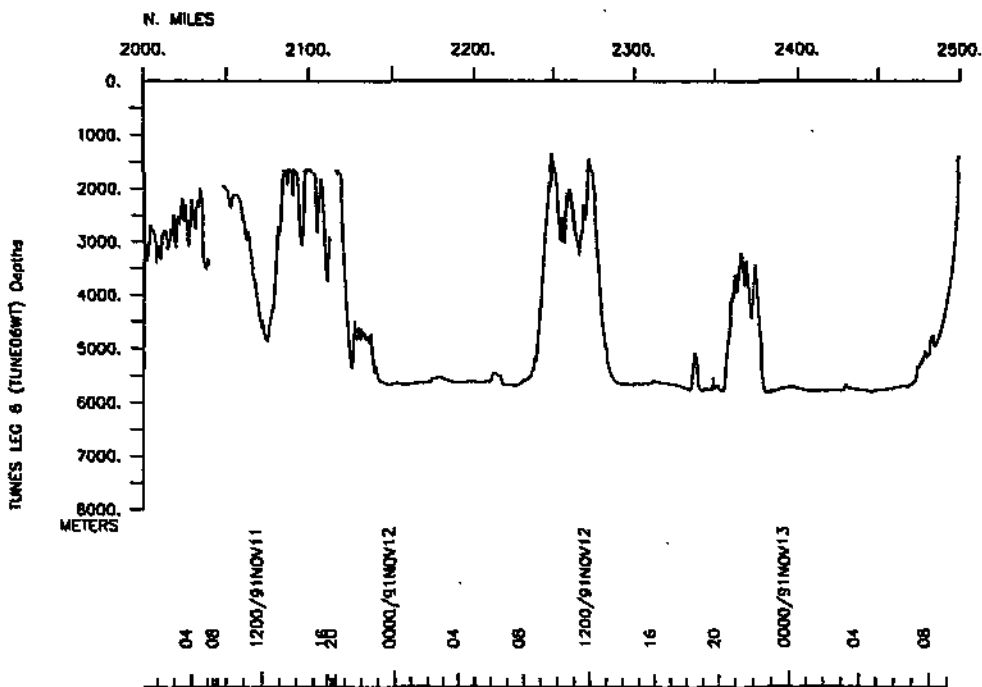
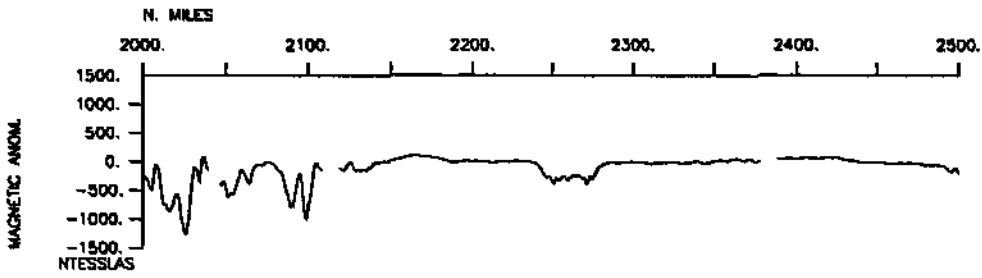
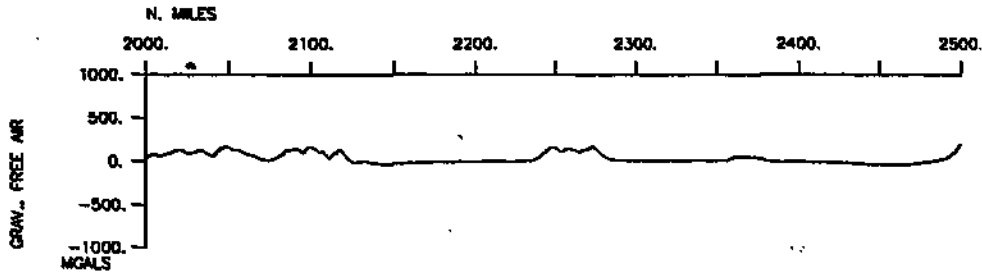
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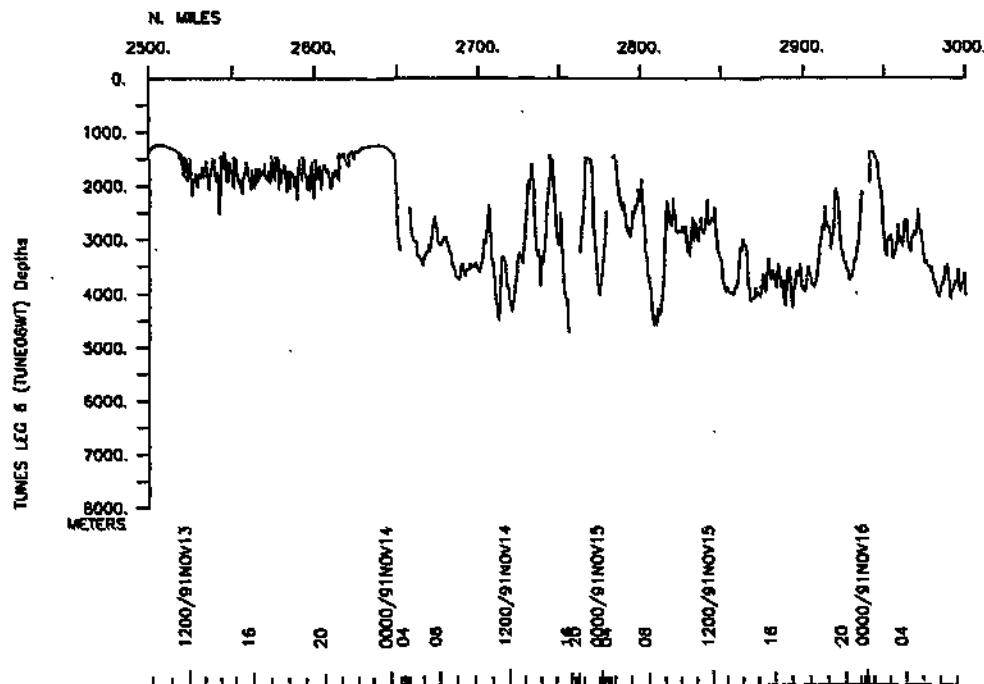
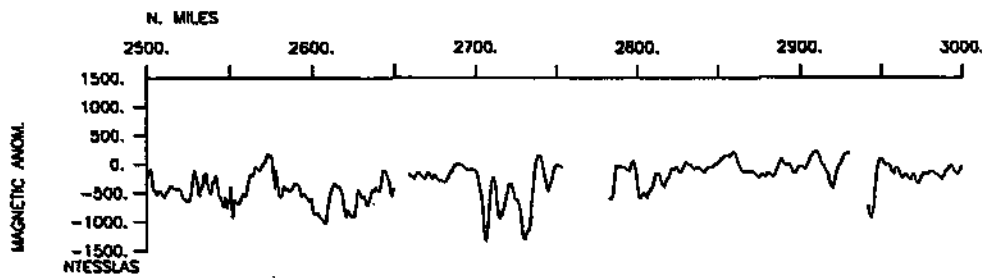
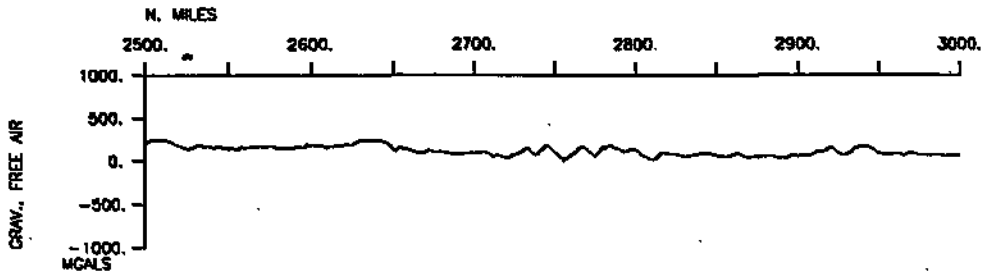


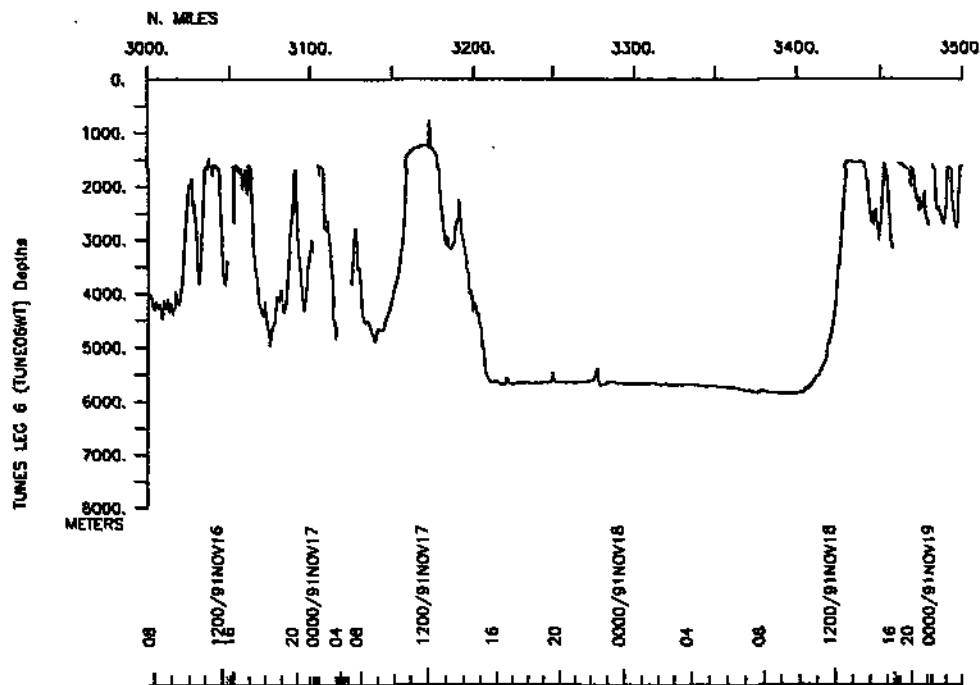
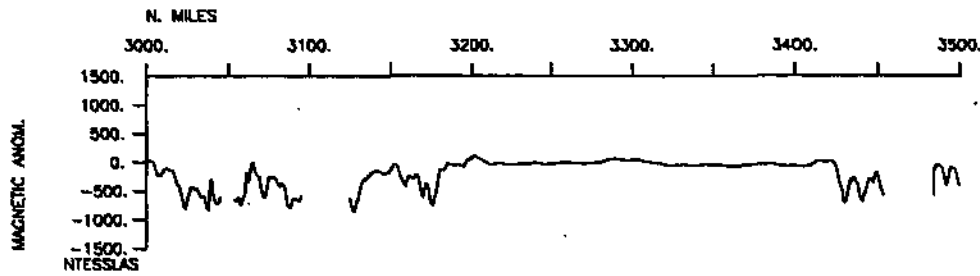
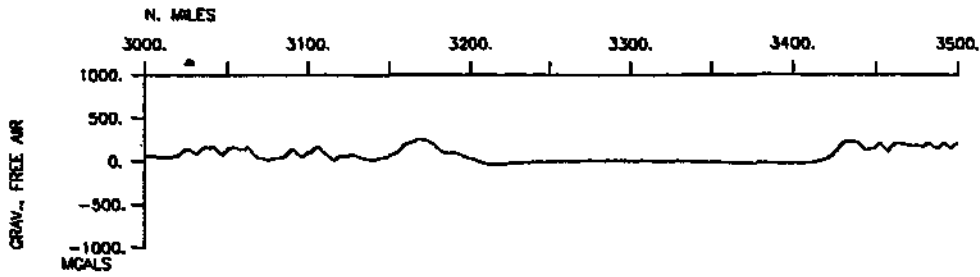


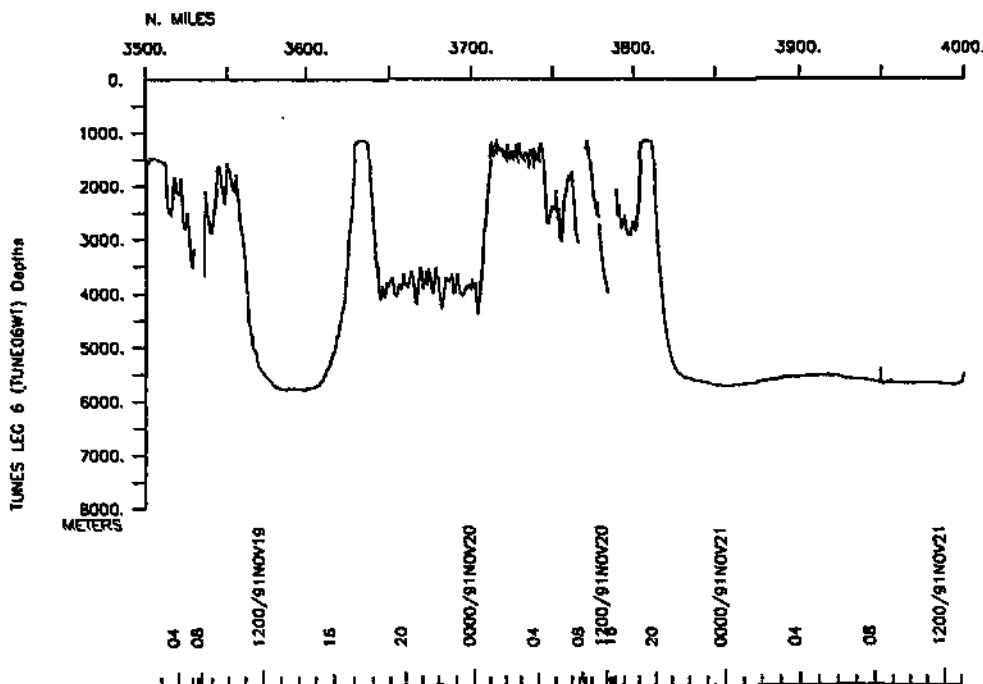
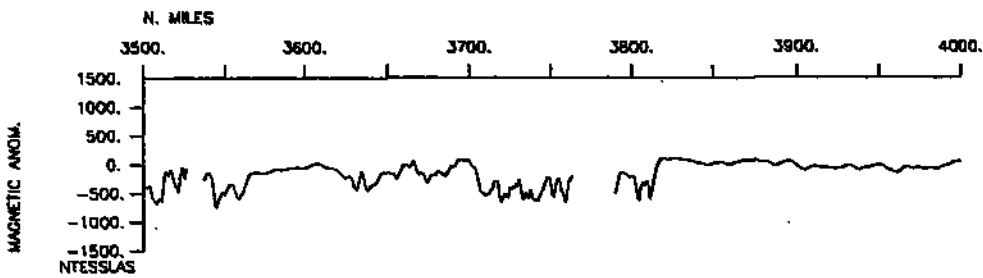
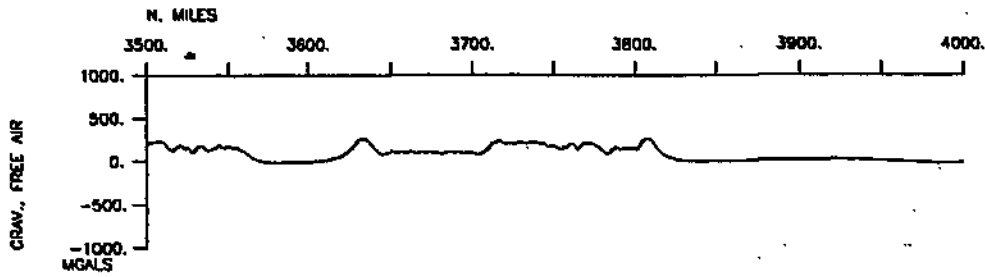


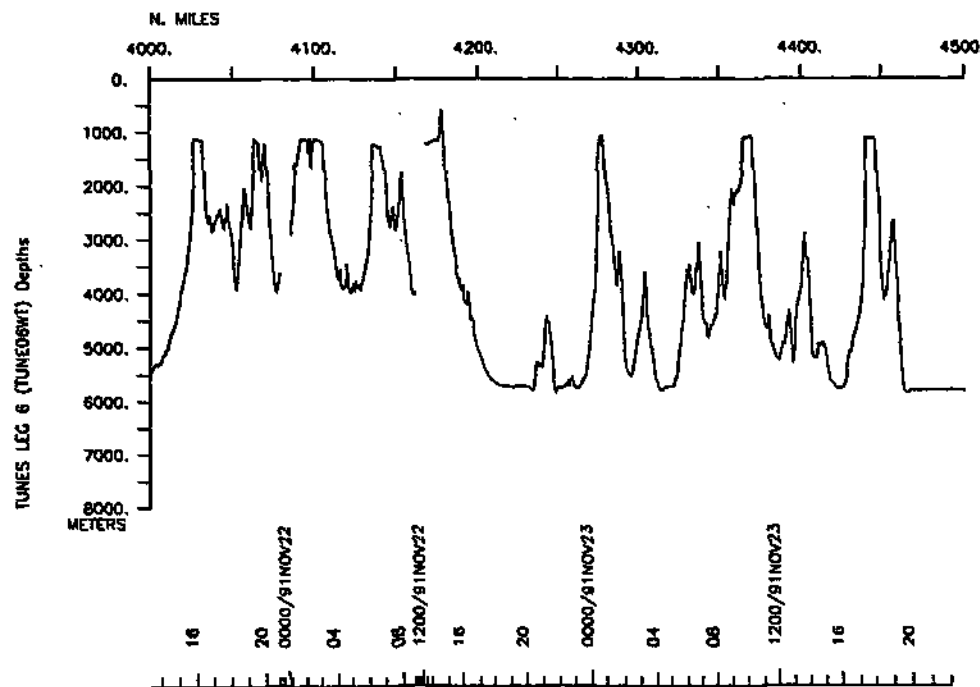
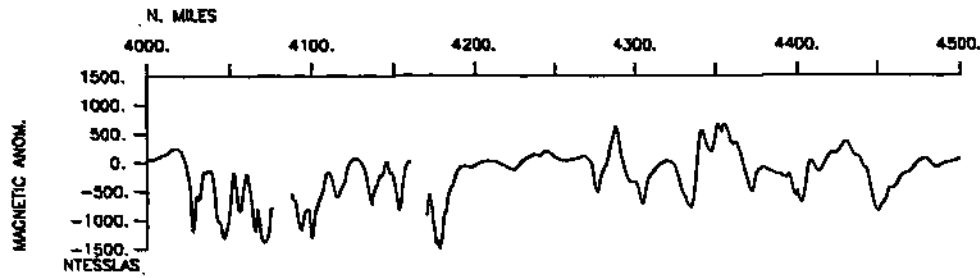
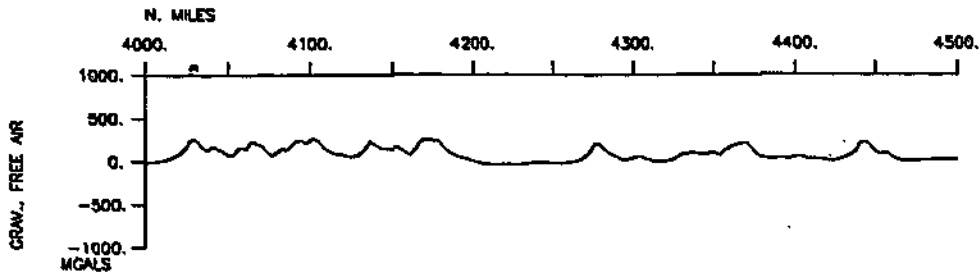


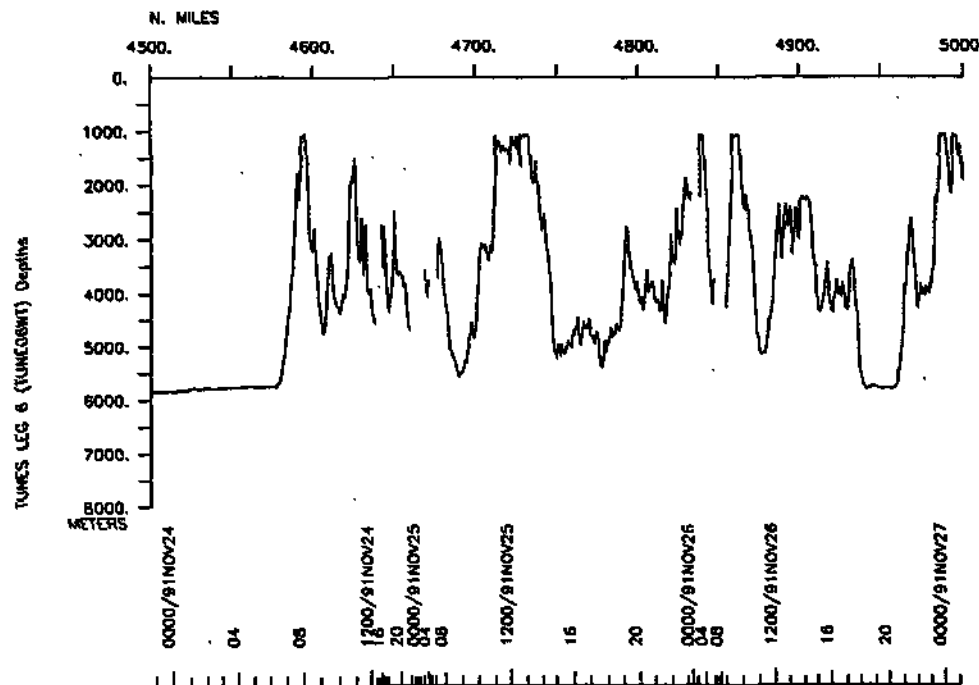
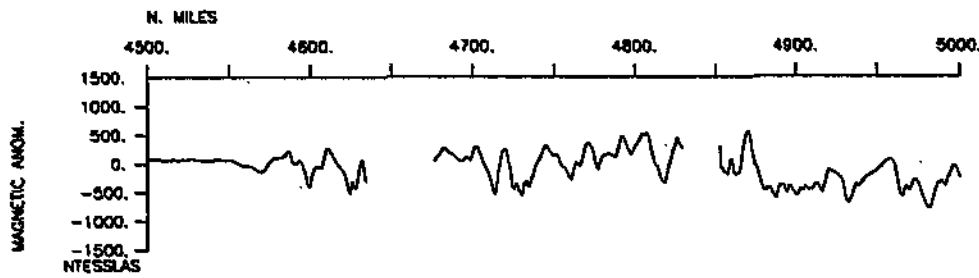
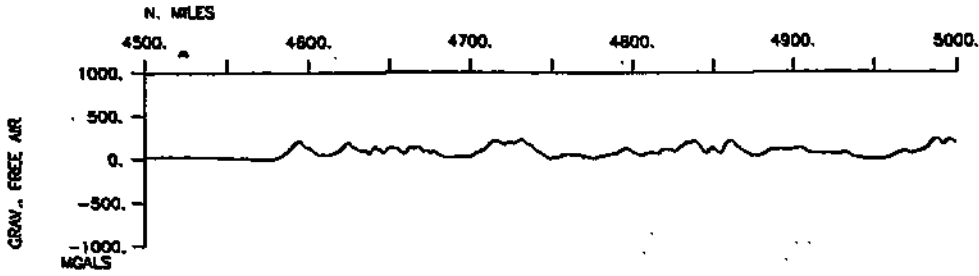


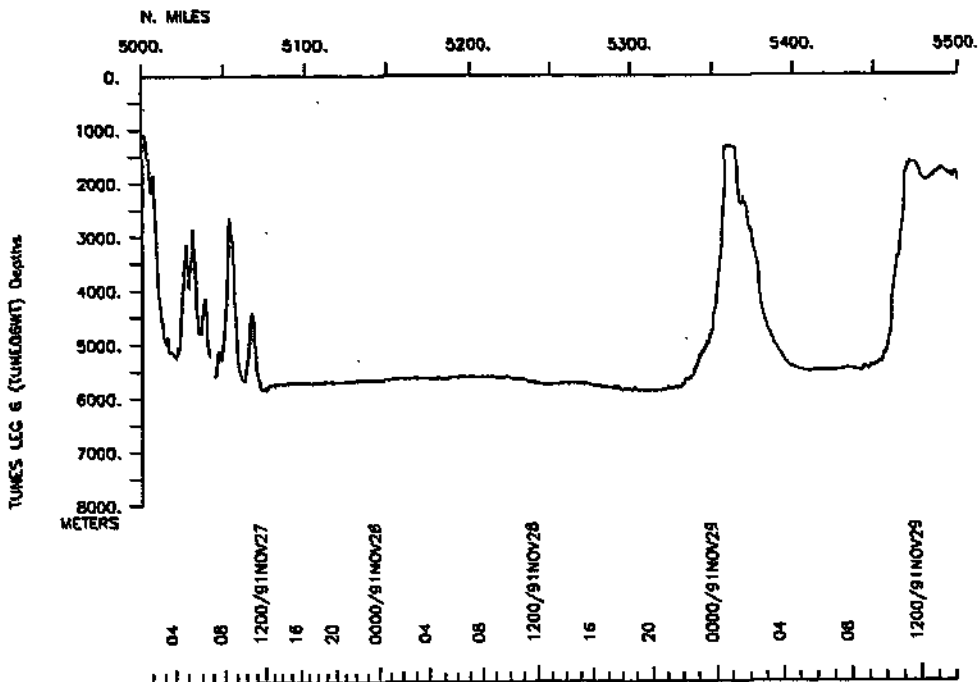
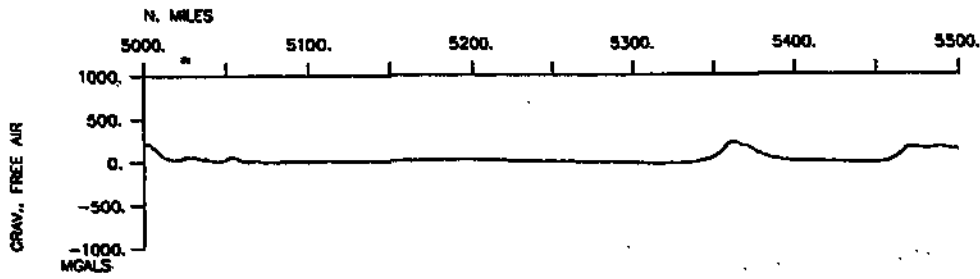


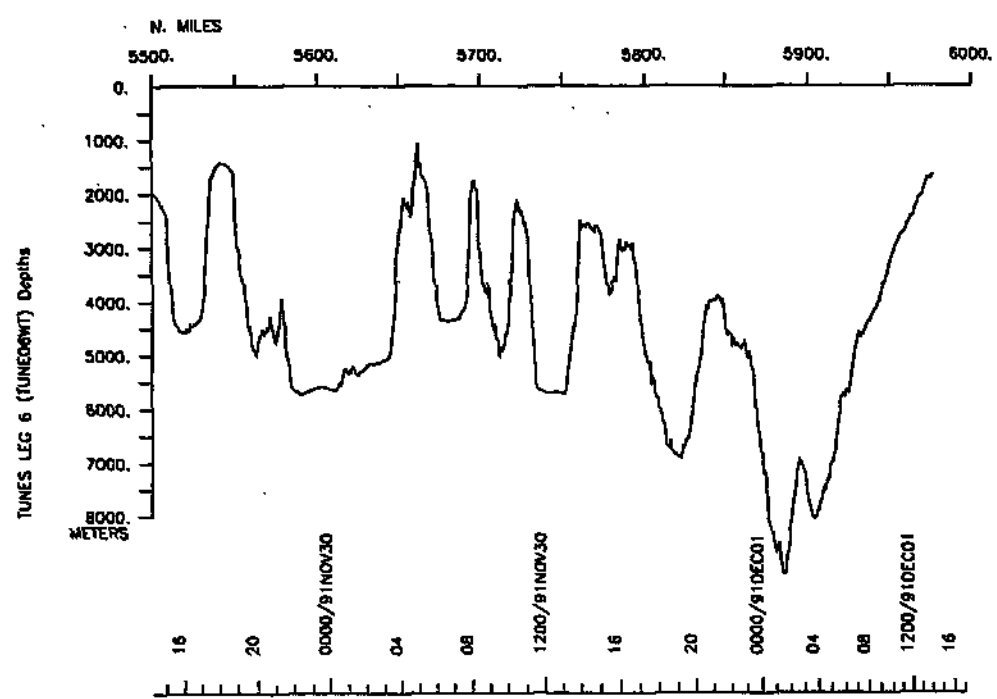
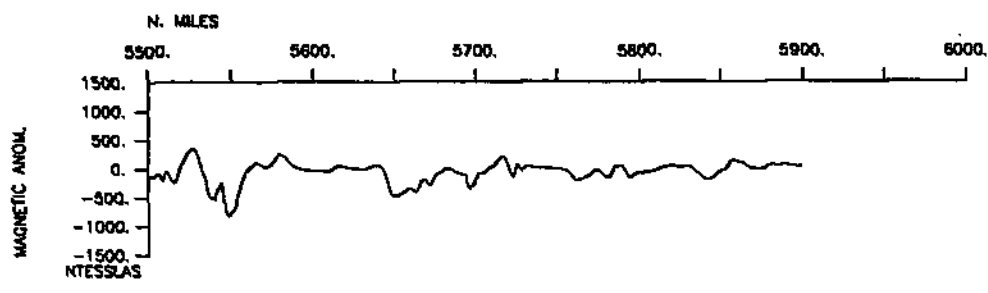
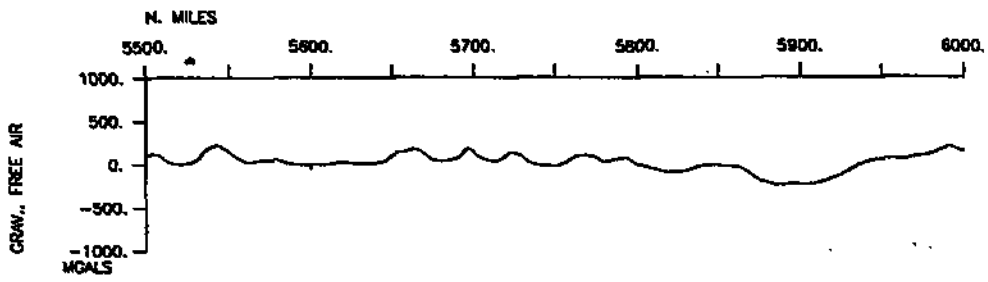


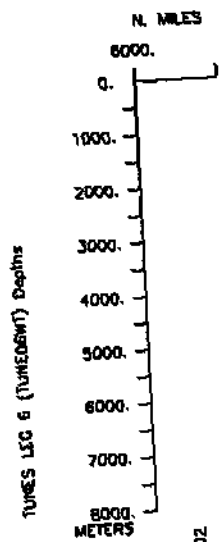
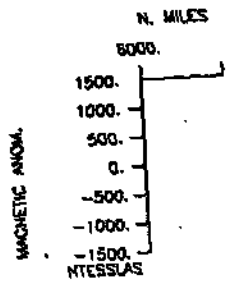
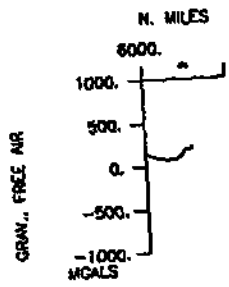












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LEL

S.I.O. SAMPLE INDEX

(Issued December 1991)

TUNES EXPEDITION

Leg 6

R/V T. Washington

Kwajalein, Marshall Islands (31 October 1991)
to
Apra, Guam (2 December 1991)

Chief Scientist:

Hubert Staudigel (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.# 254

*** PORTS ***

0400	311091	LGPT B Kwajalein, Marshall Is.	8-43 N 167-44 E	fTUNE06WT
0020	021291	LGPT E Agana, Guam	13-27 N 144-37 E	fTUNE06WT

*** PERSONNEL ***

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS GRD	Staudigel, Dr. H.	Chief Scientist	Scripps Institution	TUNE06WT
PESP GSU	Pringle, M.	Geologist	U.S. Geological Survey	TUNE06WT
PESP IGP	Smith, Dr. W.	Geophysicist	Scripps Institution	TUNE06WT
PERT STS	Comer, R.	Resident Tech.	Scripps Institution	TUNE06WT
PECT STS	Charters, J.	Computer Tech.	Scripps Institution	TUNE06WT
PEBO STS	Albright, U.	Seabeam Proc.	Scripps Institution	TUNE06WT
PEST GRD	Janney, P.	Grad. Stud.	Scripps Institution	TUNE06WT
PEST GRD	Marchant, K.	Grad. Stud.	Scripps Institution	TUNE06WT
PEST GRD	Van Waasbergen, R.	Grad. Stud.	Scripps Institution	TUNE06WT
PEVL SIX	Laurs, B.	Volunteer	SIO non-employee	TUNE06WT

*** 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. Positions are in tenths #of minutes.

#GMT	DDMMYY	LOC	T	SAMP	SAMPLE	DISP			CRUISE
#TIME	DATE	TIME	Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP

*** UNDERWAY DATA CURATOR - Stuart M. Smith ext. 42752 ***

*** LOG BOOKS ***

0444	311091			LBUW	B Underway Watch Log	GDC	8-439N	167-439E	sTUNE06WT
1412	011291			LBUW	E Underway Watch log	GDC	13-423N	145-096E	sTUNE06WT

*** ECHO SOUNDERS ***

0502	311091			DPR3	B 3.5khz R-01	GDC	8-455N	167-422E	sTUNE06WT
0130	021191			DPR3	E 3.5khz R-01	GDC	12-059N	165-011E	sTUNE06WT
0330	021191			DPR3	B 3.5khz R-02	GDC	12-027N	164-581E	sTUNE06WT
0833	061191			DPR3	E 3.5khz R-02	GDC	17-371N	158-505E	sTUNE06WT
0850	061191			DPR3	B 3.5khz R-03	GDC	17-395N	158-485E	sTUNE06WT
0445	101191			DPR3	E 3.5khz R-03	GDC	20-137N	156-254E	sTUNE06WT
0608	101191			DPR3	B 3.5khz R-04	GDC	20-132N	156-247E	sTUNE06WT
0506	111191			DPR3	E 3.5khz R-04	GDC	20-534N	156-079E	sTUNE06WT
0952	111191			DPR3	B 3.5khz R-05	GDC	20-516N	156-149E	sTUNE06WT
1632	111191			DPR3	E 3.5khz R-05	GDC	20-269N	155-530E	sTUNE06WT
2054	111191			DPR3	B 3.5khz R-06	GDC	20-270N	155-547E	sTUNE06WT
0106	141191			DPR3	E 3.5khz R-06	GDC	16-469N	154-130E	sTUNE06WT
0610	141191			DPR3	B 3.5khz R-07	GDC	16-472N	154-150E	sTUNE06WT
2314	141191			DPR3	E 3.5khz R-07	GDC	17-023N	153-598E	sTUNE06WT
0613	151191			DPR3	B 3.5khz R-08	GDC	17-037N	154-088E	sTUNE06WT
0221	171191			DPR3	E 3.5khz R-08	GDC	16-222N	154-200E	sTUNE06WT
0230	171191			DPR3	B 3.5khz R-09	GDC	16-224N	154-201E	sTUNE06WT
0430	191191			DPR3	E 3.5khz R-09	GDC	21-171N	154-440E	sTUNE06WT

#GMT #TIME #	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0521 1140	191191 211191			DPR3 B DPR3 E	3.5khz R-10 3.5khz R-10	GDC GDC	21-188N 23-121N	154-444E 151-021E	sTUNE06WT sTUNE06WT
1145 1905	211191 231191			DPR3 B DPR3 E	3.5khz R-11 3.5khz R-11	GDC GDC	23-128N 23-042N	151-016E 148-164E	sTUNE06WT sTUNE06WT
1917 2230	231191 251191			DPR3 B DPR3 E	3.5khz R-12 3.5khz R-12	GDC GDC	23-050N 23-430N	148-140E 148-484E	sTUNE06WT sTUNE06WT
2242 2330	251191 301191			DPR3 B DPR3 E	3.5khz R-13 3.5khz R-13	GDC GDC	23-427N 13-207N	148-479E 146-592E	sTUNE06WT sTUNE06WT
0026 1412	011291 011291			DPR3 B DPR3 E	3.5khz R-14 3.5khz R-14	GDC GDC	13-223N 13-423N	146-510E 145-096E	sTUNE06WT sTUNE06WT
0444 0236	311091 041191			MBRM B MBRM E	SeaBeam Monitor 01 SeaBeam Monitor 01	GDC GDC	8-439N 14-165N	167-439E 160-543E	sTUNE06WT sTUNE06WT
0604 0945	041191 101191			MBRM B MBRM E	SeaBeam Monitor 02 SeaBeam Monitor 02	GDC GDC	14-172N 20-348N	160-561E 156-459E	sTUNE06WT sTUNE06WT
0953 2113	101191 151191			MBRM B MBRM E	SeaBeam Monitor 03 SeaBeam Monitor 03	GDC GDC	20-358N 17-071N	156-470E 154-191E	sTUNE06WT sTUNE06WT
0142 2110	161191 211191			MBRM B MBRM E	SeaBeam Monitor 04 SeaBeam Monitor 04	GDC GDC	17-069N 23-486N	154-201E 150-283E	sTUNE06WT sTUNE06WT
0056 1230	221191 281191			MBRM B MBRM E	SeaBeam Monitor 05 SeaBeam Monitor 05	GDC GDC	23-469N 21-301N	150-341E 151-267E	sTUNE06WT sTUNE06WT
1235 1412	281191 011291			MBRM B MBRM E	SeaBeam Monitor 06 SeaBeam Monitor 06	GDC GDC	21-294N 13-423N	151-271E 145-096E	sTUNE06WT sTUNE06WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** SEA BEAM ARCHIVE SWATH BOOKS ***									
0559	311091			MBSB B	Archive Swath Bk	1	GDC 8-488N	167-339E	sTUNE06WT
1052	021191			MBSB E	Archive Swath Bk	1	GDC 12-117N	164-291E	sTUNE06WT
1052	021191			MBSB B	Archive Swath Bk	2	GDC 12-117N	164-291E	sTUNE06WT
1318	041191			MBSB E	Archive Swath Bk	2	GDC 14-599N	160-158E	sTUNE06WT
1318	041191			MBSB B	Archive Swath Bk	3	GDC 14-599N	160-158E	sTUNE06WT
2002	061191			MBSB E	Archive Swath Bk	3	GDC 18-490N	158-224E	sTUNE06WT
2003	061191			MBSB B	Archive Swath Bk	4	GDC 18-491N	158-225E	sTUNE06WT
2048	091191			MBSB E	Archive Swath Bk	4	GDC 20-351N	156-252E	sTUNE06WT
2048	091191			MBSB B	Archive Swath Bk	5	GDC 20-351N	156-252E	sTUNE06WT
1023	121191			MBSB E	Archive Swath Bk	5	GDC 18-317N	155-100E	sTUNE06WT
1023	121191			MBSB B	Archive Swath Bk	6	GDC 18-317N	155-100E	sTUNE06WT
1013	141191			MBSB E	Archive Swath Bk	6	GDC 16-478N	154-061E	sTUNE06WT
1013	141191			MBSB B	Archive Swath Bk	7	GDC 16-478N	154-061E	sTUNE06WT
1017	171191			MBSB E	Archive Swath Bk	7	GDC 16-426N	154-166E	sTUNE06WT
1017	171191			MBSB B	Archive Swath Bk	8	GDC 16-426N	154-166E	sTUNE06WT
1525	191191			MBSB E	Archive Swath Bk	8	GDC 21-200N	153-357E	sTUNE06WT
1525	191191			MBSB B	Archive Swath Bk	9	GDC 21-200N	153-357E	sTUNE06WT
0202	221191			MBSB E	Archive Swath Bk	9	GDC 23-523N	150-423E	sTUNE06WT
0202	221191			MBSB B	Archive Swath Bk	10	GDC 23-523N	150-423E	sTUNE06WT
0451	241191			MBSB E	Archive Swath Bk	10	GDC 23-486N	148-106E	sTUNE06WT
0451	241191			MBSB B	Archive Swath Bk	11	GDC 23-486N	148-106E	sTUNE06WT
0327	271191			MBSB E	Archive Swath Bk	11	GDC 23-097N	148-413E	sTUNE06WT
0327	271191			MBSB B	Archive Swath Bk	12	GDC 23-097N	148-413E	sTUNE06WT
1405	291191			MBSB E	Archive Swath Bk	12	GDC 17-402N	150-471E	sTUNE06WT
1405	291191			MBSB B	Archive Swath Bk	13	GDC 17-402N	150-471E	sTUNE06WT
1412	011291			MBSB E	Archive Swath Bk	13	GDC 13-423N	145-096E	sTUNE06WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#*** ROCK DREDGES ***									
1531	011191			DRRO	Rock Dred. D09	3000M	GCR 12-049N	164-562E	sTUNE06WT
2350	011191			DRRO	Rock Dred. D10	3200M	GCR 12-062N	165-008E	sTUNE06WT
0440	021191			DRRO	Empty Dred. D11	2210M	GCR 12-018N	164-563E	sTUNE06WT
1732	031191			DRRO	Rock Dred. D12	2659M	GCR 14-196N	160-523E	sTUNE06WT
0300	041191			DRRO	Rock Dred. D13	2730M	GCR 14-170N	160-545E	sTUNE06WT
2345	041191			DRRO	Rock Dred. D14	2800M	GCR 14-470N	160-182E	sTUNE06WT
0741	051191			DRRO	Rock Dred. D15	2630M	GCR 14-521N	160-209E	sTUNE06WT
0719	071191			DRRO	Rock Dred. D16	2500M	GCR 19-326N	157-456E	sTUNE06WT
1920	071191			DRRO	Rock Dred. D17	3150M	GCR 19-350N	157-479E	sTUNE06WT
0025	081191			DRRO	Rock Dred. D18	2700M	GCR 19-304N	157-450E	sTUNE06WT
1200	081191			DRRO	Rock Dred. D19	2800M	GCR 19-422N	156-466E	sTUNE06WT
2337	081191			DRRO	Empty Dred. D20	2800M	GCR 19-515N	156-285E	sTUNE06WT
0912	091191			DRRO	Rock Dred. D21	3920M	GCR 20-098N	156-403E	sTUNE06WT
0229	101191			DRRO	Rock Dred. D22	3000M	GCR 20-135N	156-250E	sTUNE06WT
1715	101191			DRRO	Rock Dred. D23	2300M	GCR 21-029N	157-095E	sTUNE06WT
0710	111191			DRRO	Rock Dred. D24	3000M	GCR 20-520N	156-107E	sTUNE06WT
1748	111191			DRRO	Rock Dred. D25	2300M	GCR 20-269N	155-552E	sTUNE06WT
0222	141191			DRRO	Empty Dred. D26	1800M	GCR 16-485N	154-145E	sTUNE06WT
1828	141191			DRRO	Rock Dred. D27	2700M	GCR 16-592N	154-010E	sTUNE06WT
0242	151191			DRRO	Rock Dred. D28	3000M	GCR 17-023N	154-047E	sTUNE06WT
2233	151191			DRRO	Rock Dred. D29	2100M	GCR 17-075N	154-204E	sTUNE06WT
1401	161191			DRRO	Rock Dred. D30	2800M	GCR 16-316N	154-218E	sTUNE06WT
2246	161191			DRRO	Rock Dred. D31	2400M	GCR 16-306N	154-219E	sTUNE06WT
0419	171191			DRRO	Rock Dred. D32	3500M	GCR 16-245N	154-212E	sTUNE06WT
1656	181191			DRRO	Rock Dred. D33	2700M	GCR 20-533N	154-525E	sTUNE06WT
2221	181191			DRRO	Rock Dred. D34	2300M	GCR 20-571N	154-545E	sTUNE06WT
0034	191191			DRRO	Rock Dred. D35	2400M	GCR 20-583N	154-538E	sTUNE06WT
0810	201191			DRRO	Rock Dred. D36	1700M	GCR 21-221N	153-090E	sTUNE06WT
1421	201191			DRRO	Rock Dred. D37	2600M	GCR 21-151N	153-031E	sTUNE06WT
2232	211191			DRRO	Rock Dred. D38	3600M	GCR 23-478N	150-306E	sTUNE06WT
1047	221191			DRRO	Rock Dred. D39	2400M	GCR 24-055N	149-567E	sTUNE06WT
1425	241191			DRRO	Rock Dred. D40	3800M	GCR 23-524N	148-435E	sTUNE06WT
2253	241191			DRRO	Rock Dred. D41	4500M	GCR 23-486N	148-412E	sTUNE06WT
0445	251191			DRRO	Rock Dred. D42	3600M	GCR 23-537N	148-415E	sTUNE06WT
0012	261191			DRRO X	Rock Dred. D43	1650M	GCR 23-471N	148-457E	sTUNE06WT
0604	261191			DRRO	Rock Dred. D44	3500M	GCR 23-434N	148-468E	sTUNE06WT

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End sample index

TUNE06WT