

**Report and Index of
Underway Marine Geophysical Data**

Drift Expedition

Leg 5

(DRFT05RR)

R/V Revelle

(Issued April 2002)

Ports:

Puerta Caldera, Costa Rica (27 September 2001)

to

Callao, Peru (31 October 2001)

**Chief Scientist: David Chadwell
Scripps Institution of Oceanography
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**Computer Tech – Ron Moe
Resident Tech – Shad Baiz**

**Post-Cruise processing and report preparation by the
Shipboard Technical Support Group,
Scripps Institution of Oceanography
La Jolla, CA 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 Shipboard Technical Support, Scripps Institution of Oceanography, La Jolla, California 92093-0223.

STS Cruise ID# 297

**Report and Index of Navigation
and Underway Geophysical Data**

Processed by the Shipboard Technical Support Group
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

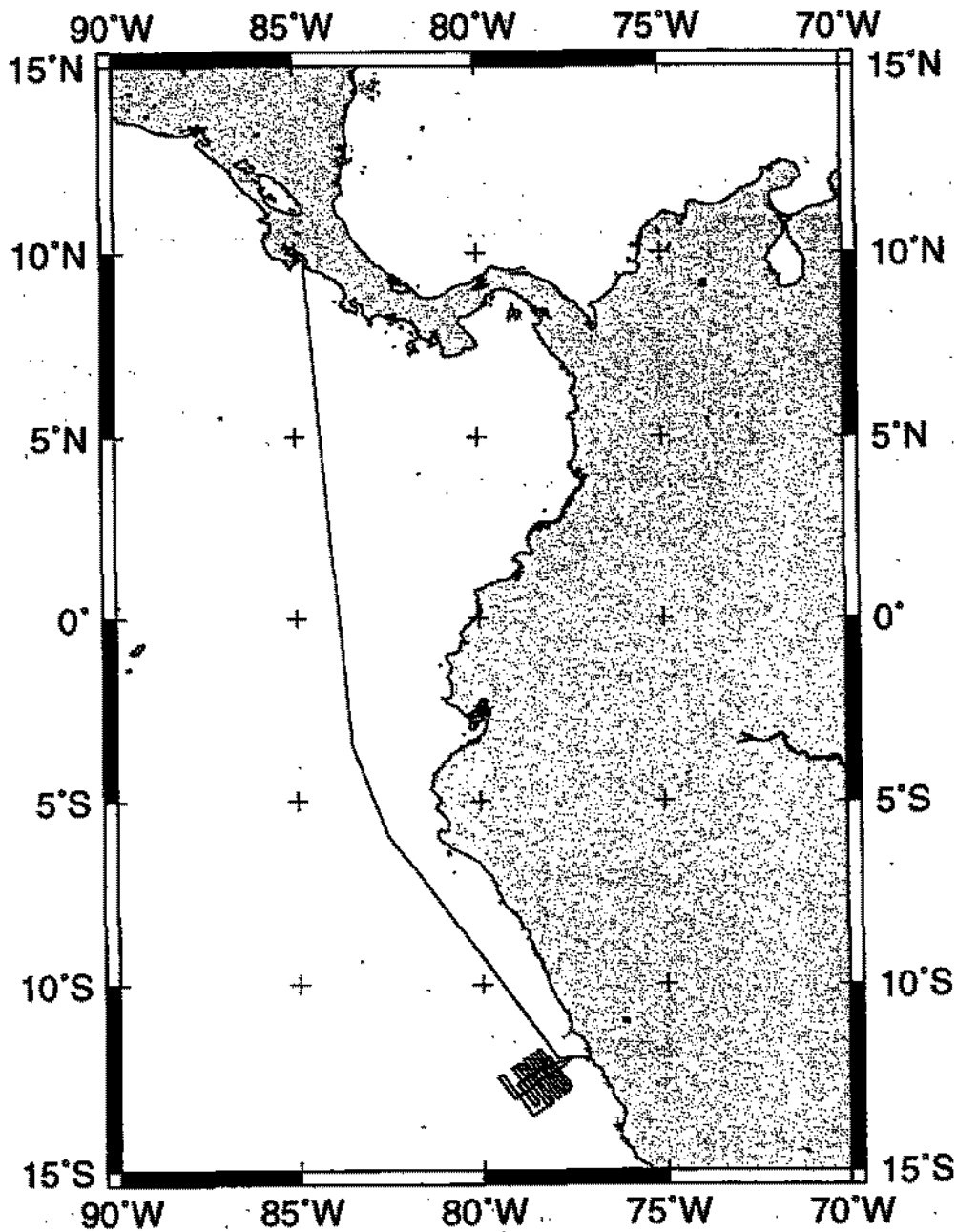
Profiles – depth, magnetic and gravity free air anomaly vs. distance. (Sections of track with seismic reflection data have a wide black line along the bottom of the profile.)

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:

For information on the availability of this current digital data as well as archived digital data contact Stephen P. Miller, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0220 Phone: (858)534-1898, internet email: spmiller@ucsd.edu; or his Website: <http://SIOExplorer@ucsd.edu>

Rev 6/2001



DRIFT EXPEDITION LEG 5 (DRFT05RR)

CHIEF SCIENTIST: David Chadwell, Scripps Institution of Oceanography

PORTS: Puerto Caldera, Costa Rica - Callao, Peru

DATES: 27 September - 31 October 2001

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise-3256 miles

Magnetics-925 miles

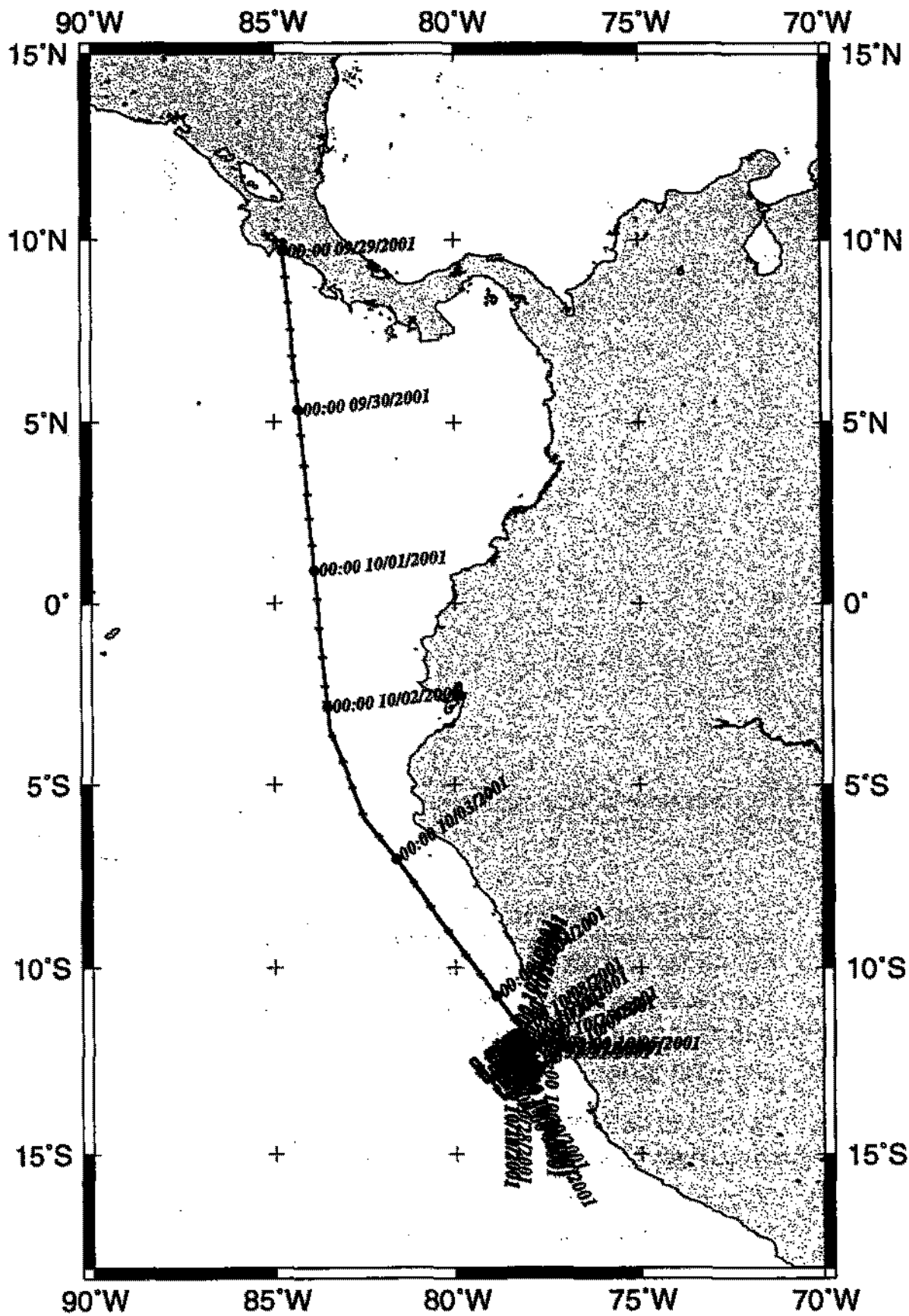
Bathymetry-2886 miles

Seismic Reflection-none collected

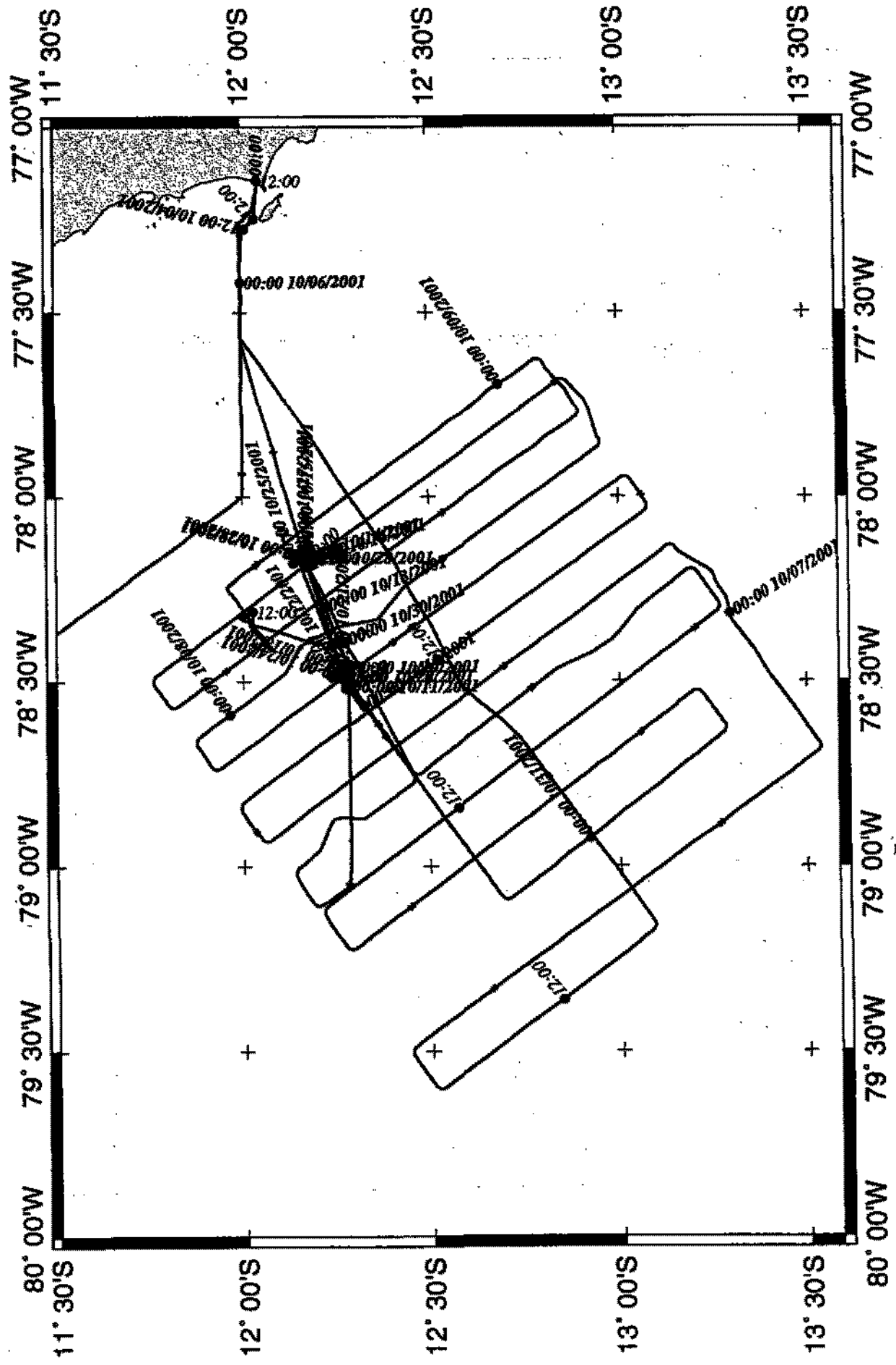
Multibeam-2886 miles

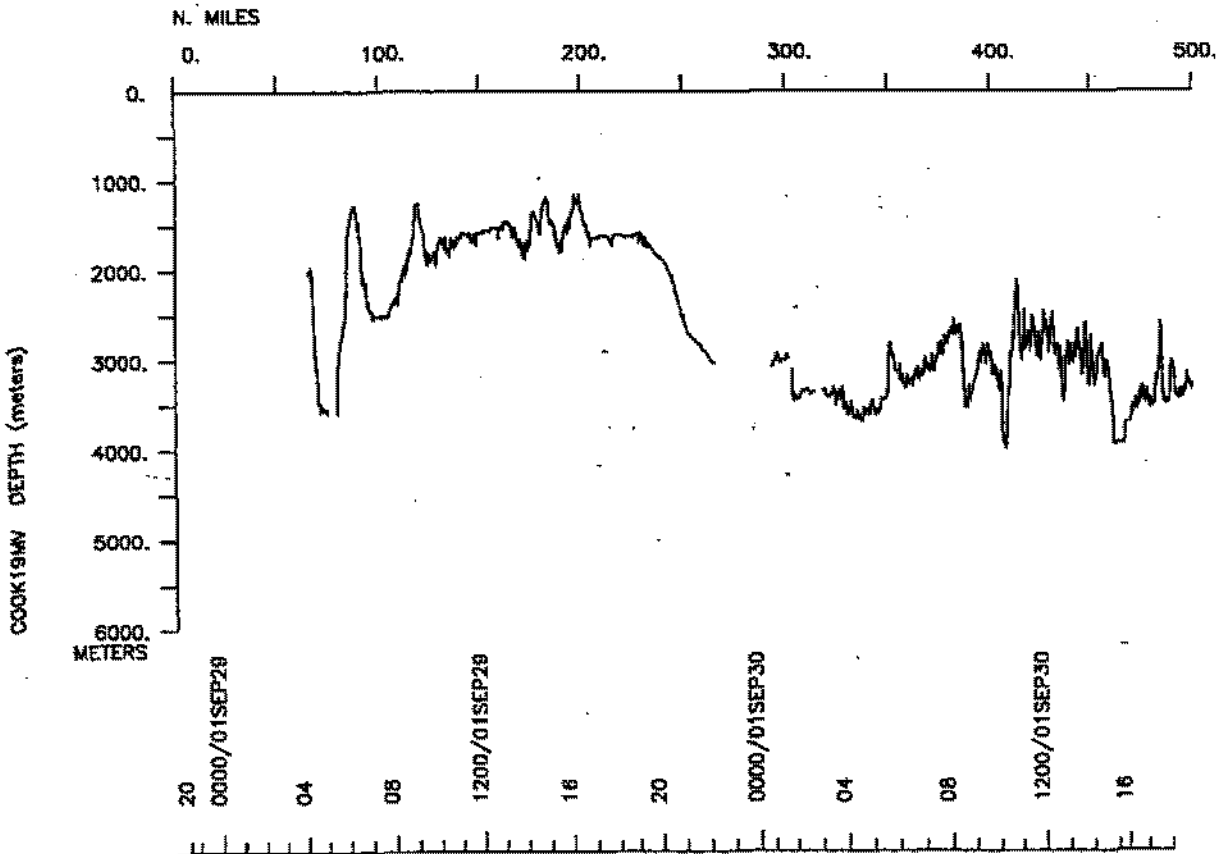
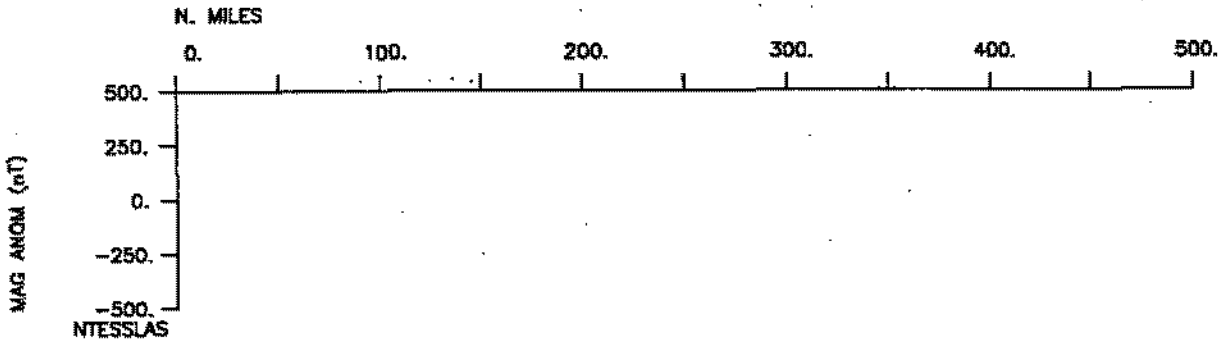
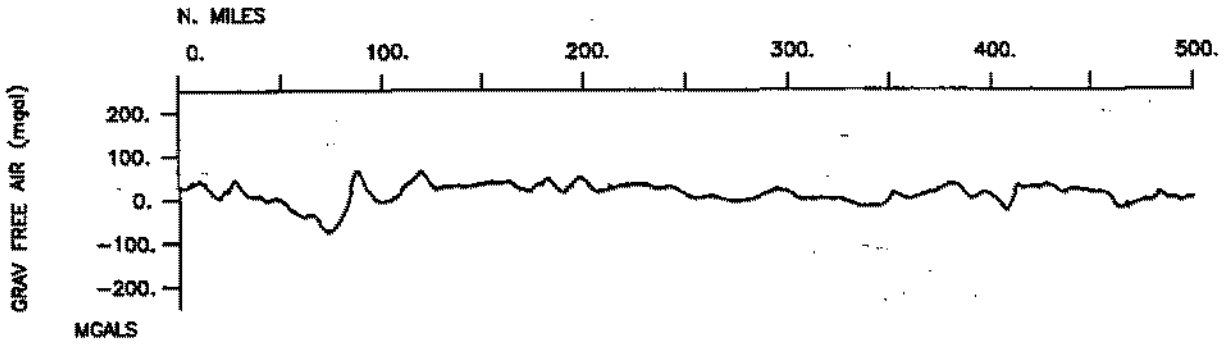
Gravity-3256 miles

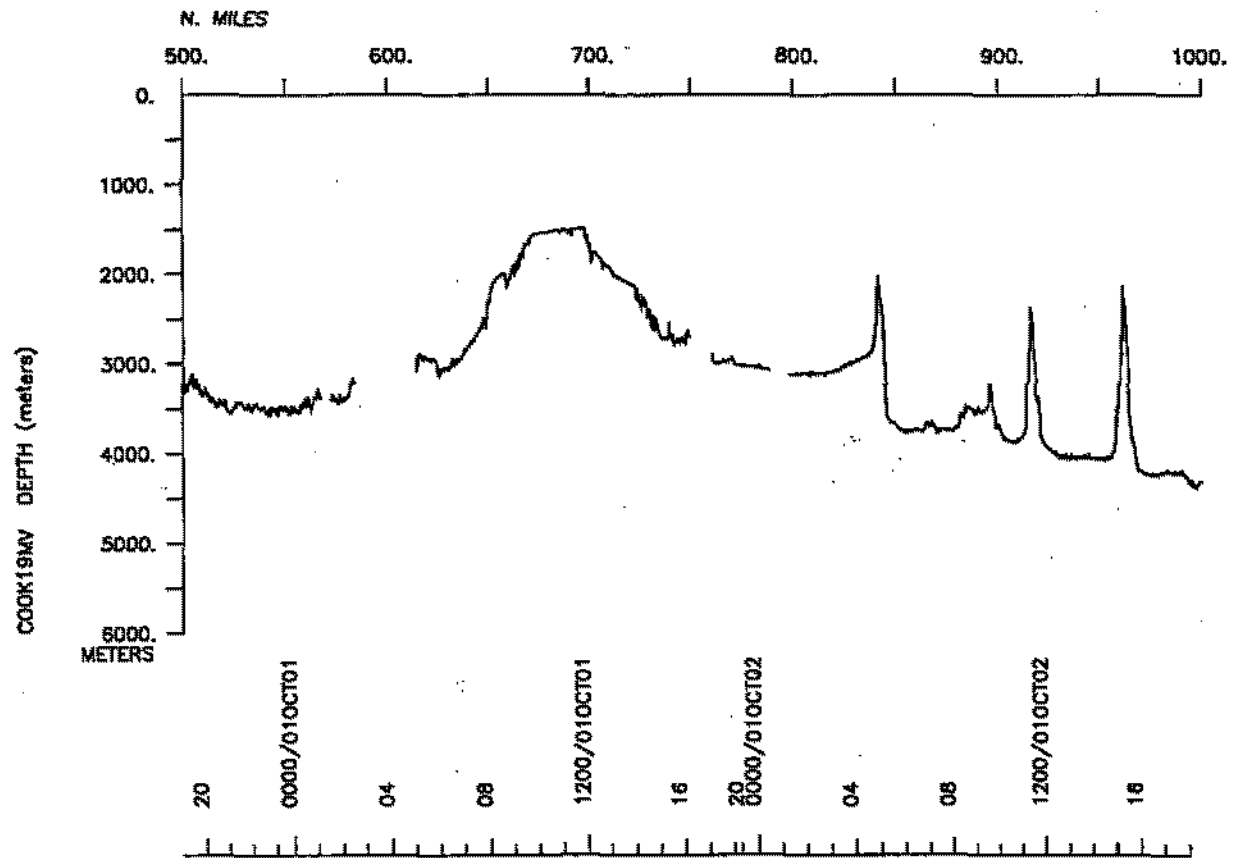
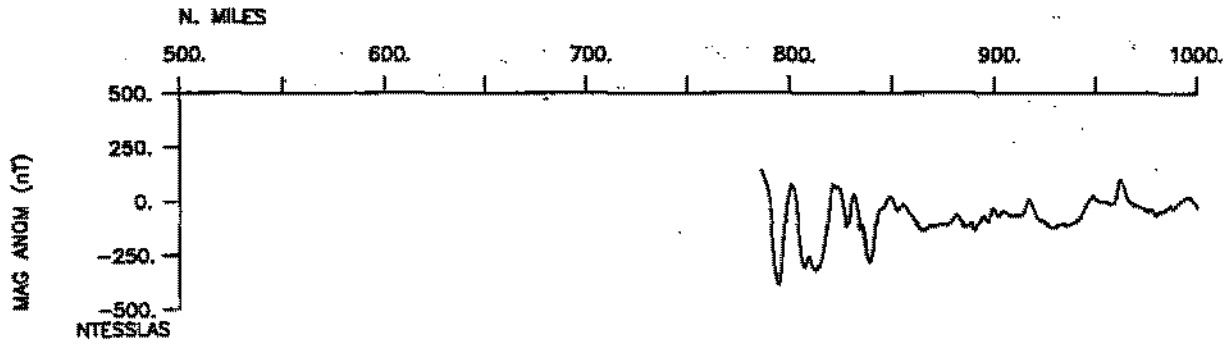
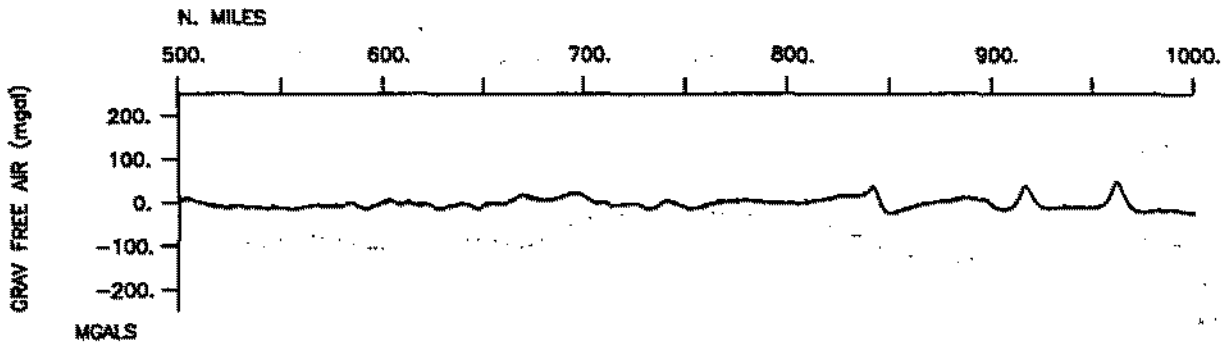
DRFT05RR

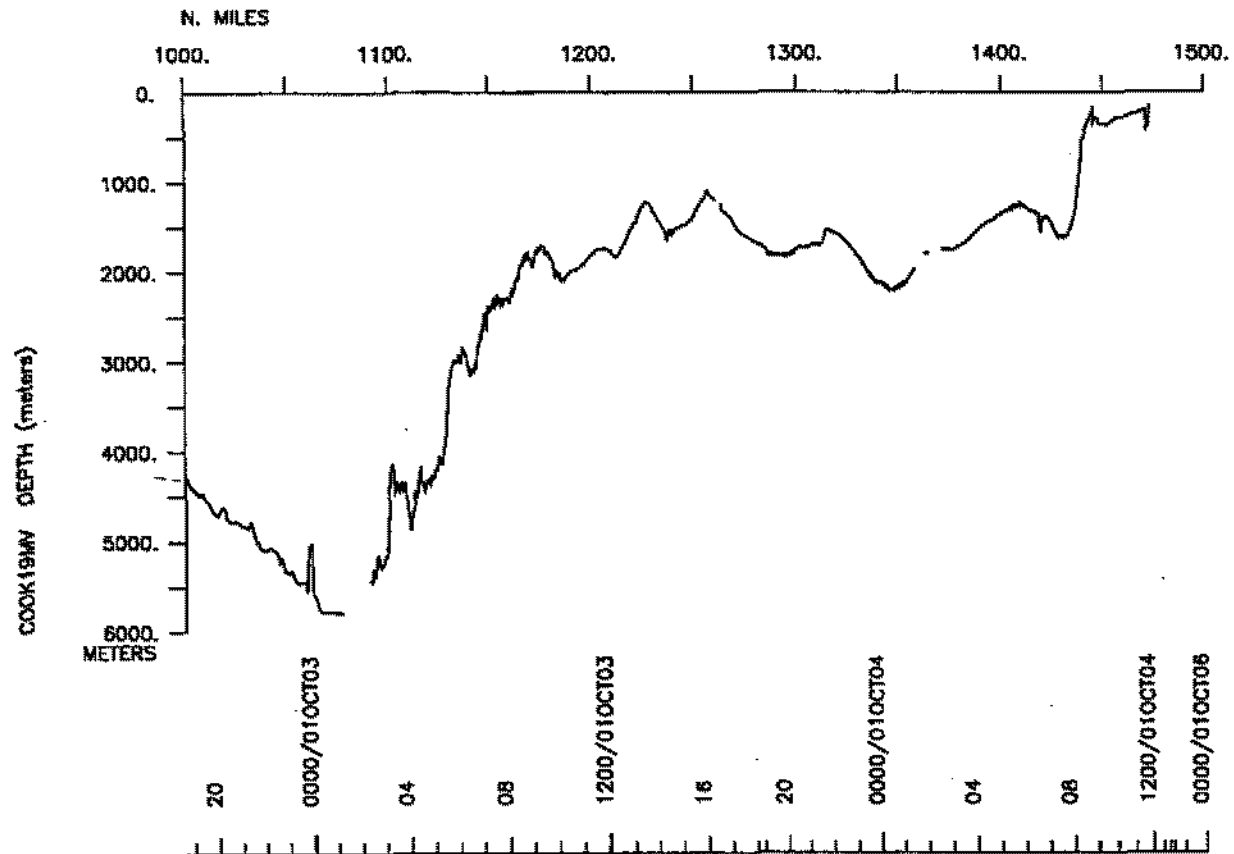
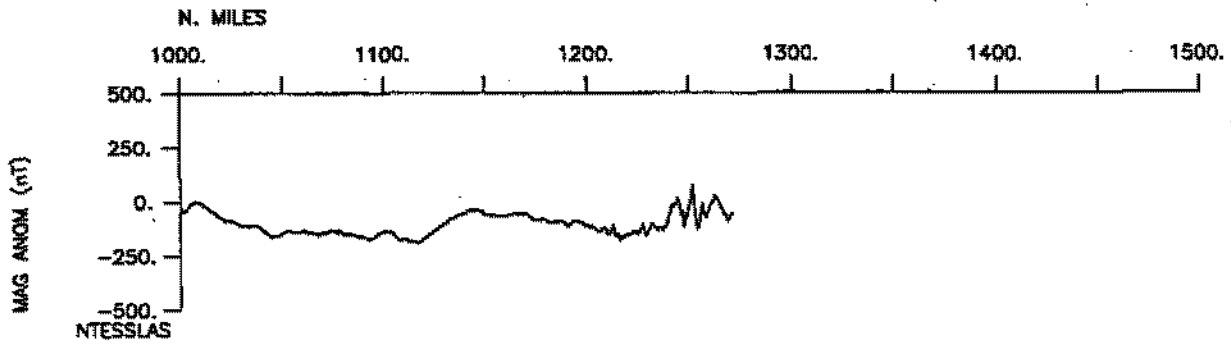
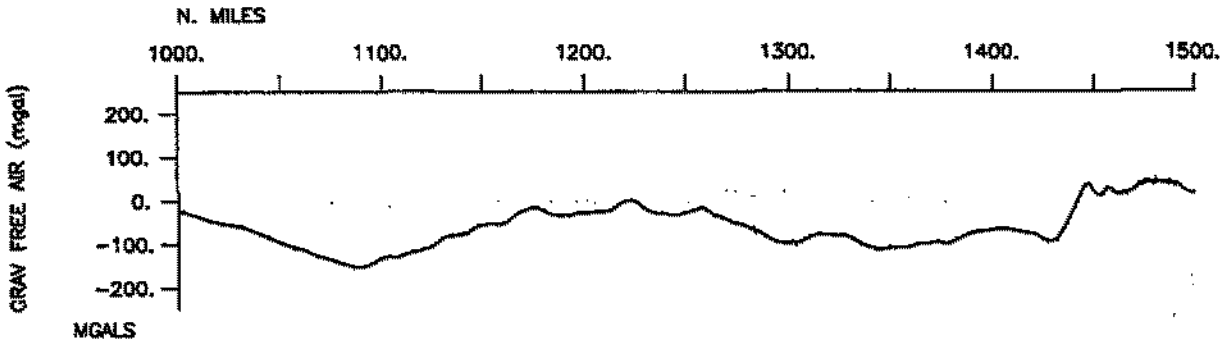


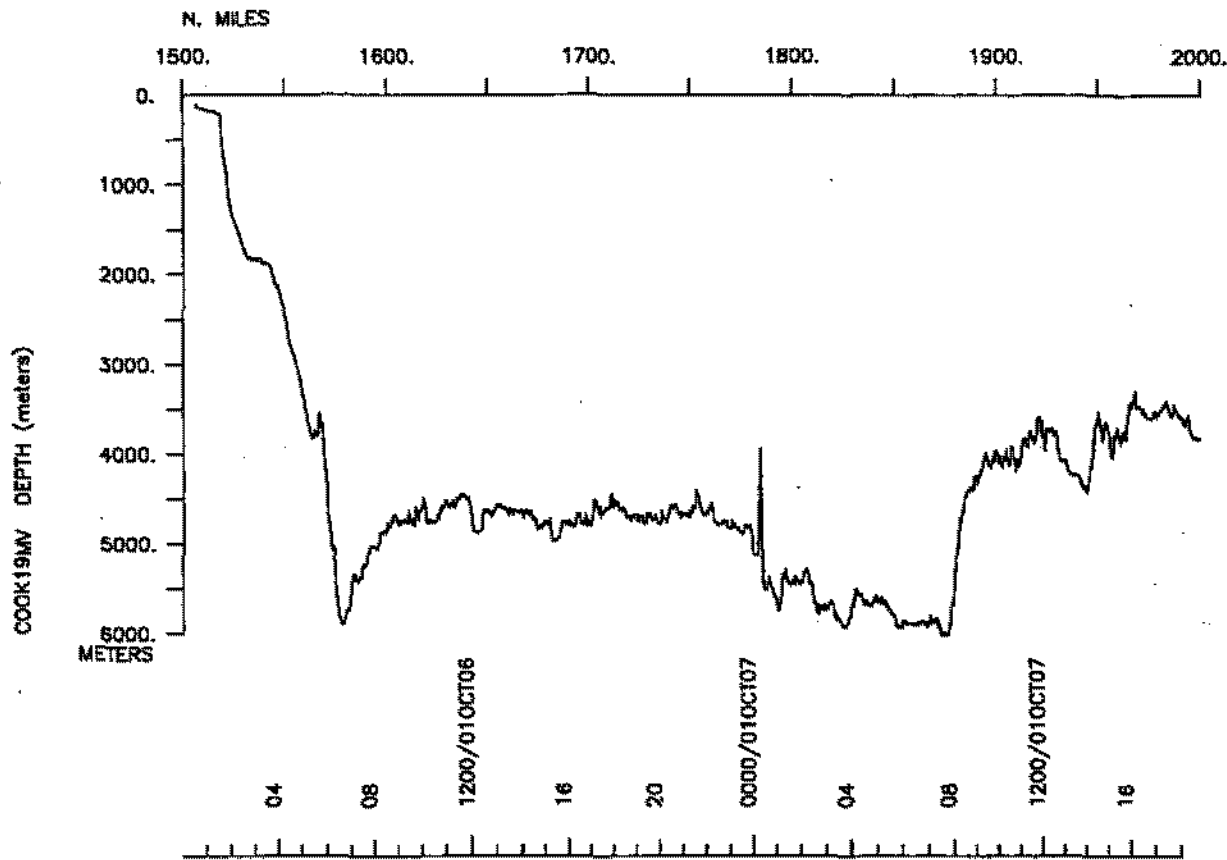
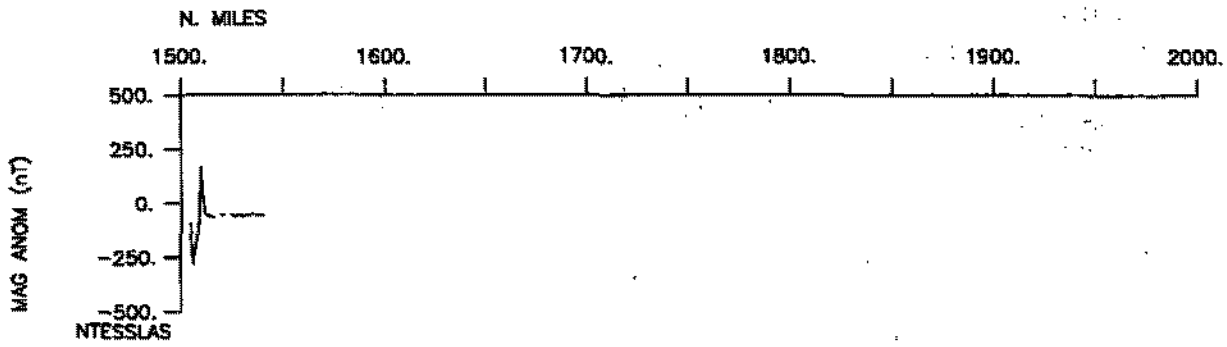
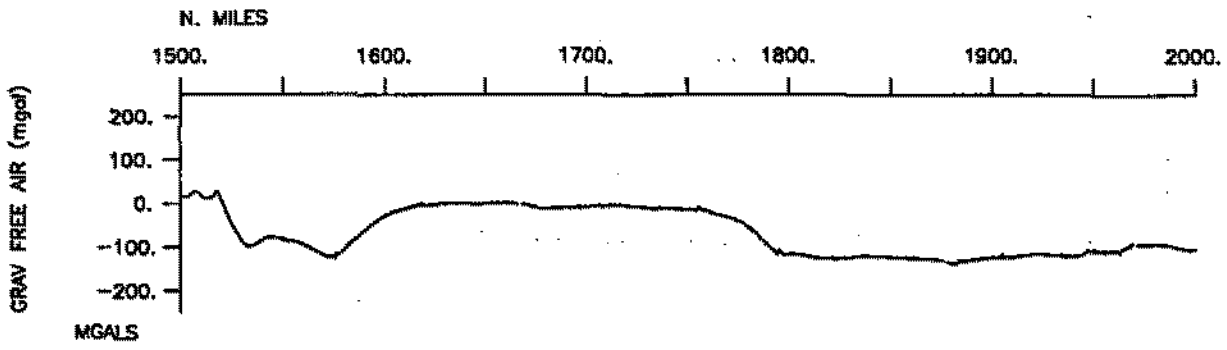
DRFT05RR.survey

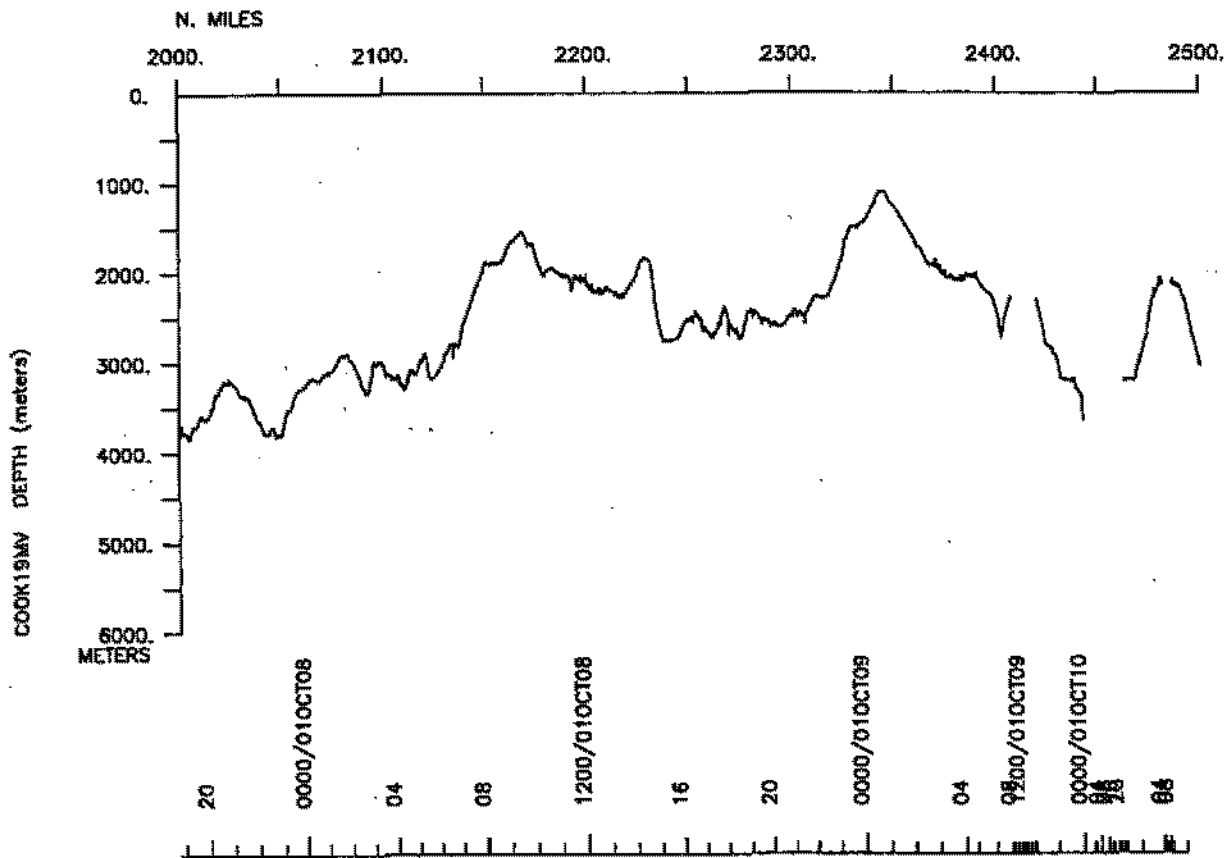


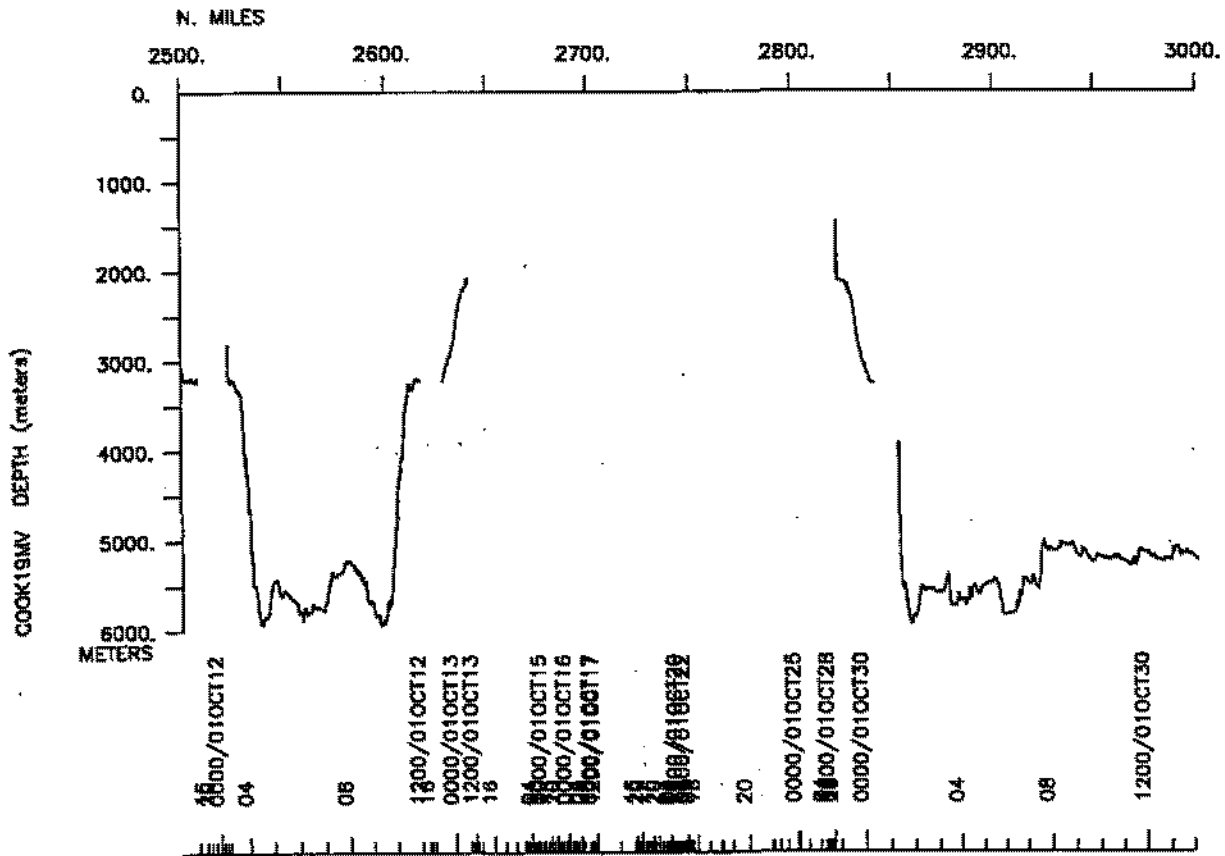
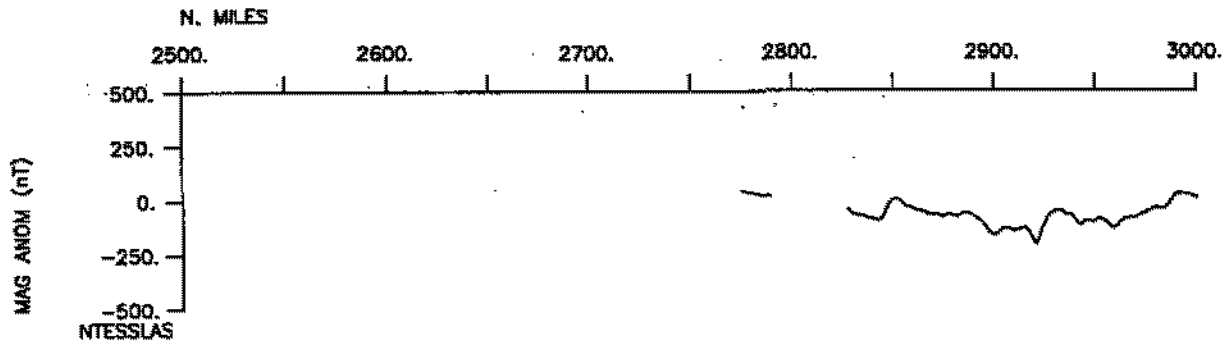
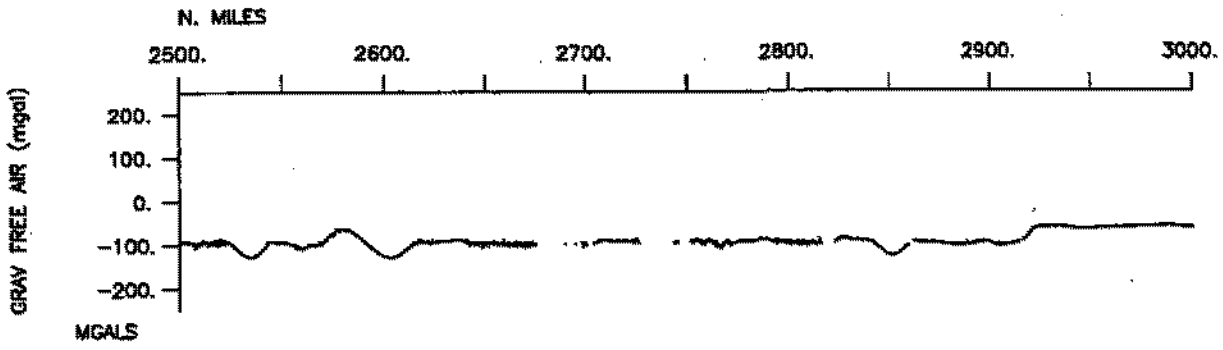


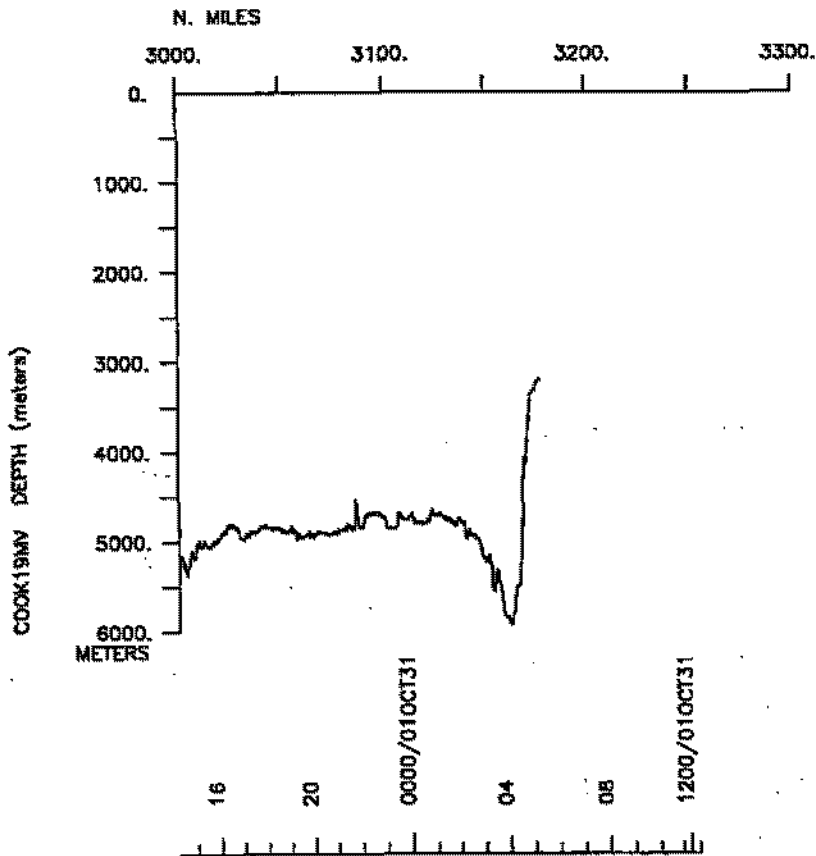
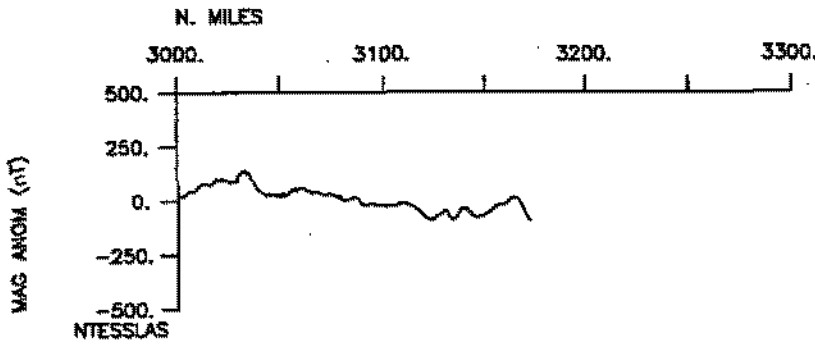
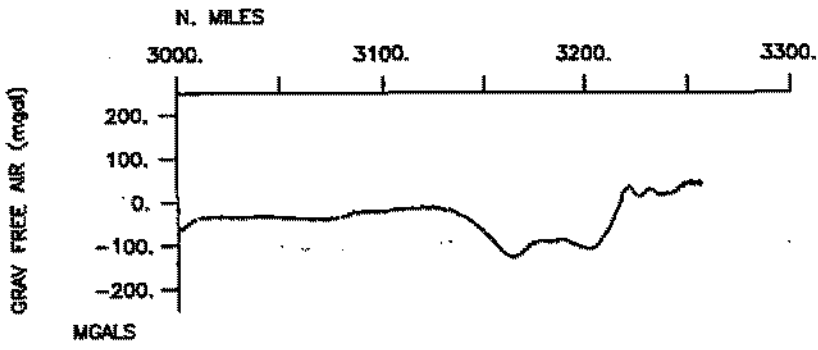












S.I.O. Sample Index

Drift Expedition

Leg 5

(DRFT05RR)

R/V Revelle

(Issued April 2002)

PORTS:

**Puerta Caldera, Costa Rica (27 September 2001)
to
Callao, Peru (31 October 2001)**

**Chief Scientist: David Chadwell
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. Shipboard Technical Support 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 Shipboard Technical Support Group.)

STS Cruise ID# 297

**** Ports ****

1706	280901	LGPT B	PuertaCaldera, CostaRica	09-53.00N	84-45.00W	f	DRFT05RR
1340	311001	LGPT E	Callao, Peru	12-03.00N	77-10.00W	f	DRFT05RR

**** Personnel ****

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS MPL	Chadwell, D.	Chief Scientist	Scripps Institution	DRFT05RR
PESP SIO	deMoustier, C.	Scientist	Scripps Institution	DRFT05RR
PESP SIO	Sutherland, W.	Manager	Scripps Institution	DRFT05RR
PESP PRU	Castillo, F.A.V.	Scientist	Inst.DelMar, Peru	DRFT05RR
PESP UCSD	Jabson, D.	Engineer	Scripps Institution	DRFT05RR
PESP UCSD	Rimington, D.	Engineer	Scripps Institution	DRFT05RR
PESP UCSD	Price, D.	Engineer	Scripps Institution	DRFT05RR
PESP UCSD	Zimmerman, R.	Engineer	Scripps Institution	DRFT05RR
PEST UCSD	Phillips, K.	Student	Scripps Institution	DRFT05RR
PEST UMI	Norabuena, E.	Student	Univ. of Miami	DRFT05RR
PERT STS	Baiz, S.	Resident tech	Scripps Institution	DRFT05RR
PECT SCG	Moe, R.	Computer tech	Scripps Institution	DRFT05RR
PECT SCG	Jacobsen, D.	Computer tech	Scripps Institution	DRFT05RR
PECT SCG	Foley, S.	Computer tech	Scripps Institution	DRFT05RR

**** 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 DDMYY	SAMP B	SAMPLE	DISP				p CRUISE
#TIME DATE	TZ	CODE E	IDENTIFIER	CODE	LATITUDE	LONGITUDE	c LEG-SHIP

**** Underway Data Curator - Shipboard Technical Support Group ext.41899 ****
 **** Digital Data Curator - Geological Data Center, S.P. Miller, ext.41898 ****

**** MultiBeam Data (SIMRAD) ****

0401	290901	0	MBSI B	multibeam data	GDC	8-58.43N	84-41.45W	g	DRFT05RR
0511	311001	0	MBSI E	multibeam data	GDC	12-15.46S	78-26.47W	g	DRFT05RR

**** Digital Magnetics (Earth Total Field) ****

0015	021001	0	MGDD B	magnetic data	GDC	2-55.35S	83-33.37W	g	DRFT05RR
0447	311001	0	MGDD E	magnetic data	GDC	12-17.54S	78-30.89W	g	DRFT05RR

**** Digital Gravity ****

1706	280901	0	GVDD B	gravity data	GDC	9-58.25N	84-49.85W	g	DRFT05RR
1340	311001	0	GVDD E	gravity data	GDC	12-03.17S	77-08.70W	g	DRFT05RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
*** Integrated Meteorological Acquisition System ***										
1706	280901	0	IMET	B weather measurements	GDC	9-58.25N	84-49.85W	g		DRFT05RR
1340	311001	0	IMET	E weather measurements	GDC	12-03.17S	77-08.70W	g		DRFT05RR
*** Acoustic Doppler Current Profiler ***										
1706	280901	0	ADCP	B current measurements	GDC	9-58.25N	84-49.85W	g		DRFT05RR
1340	311001	0	ADCP	E current measurements	GDC	12-03.17S	77-08.70W	g		DRFT05RR
*** Conductivity, Temperature, Depth ***										
1824	031001	0	TDCT	B CTD	MPL	10-00.88S	79-27.81W	g		DRFT05RR
1848	031001	0	TDCT	E CTD	MPL	10-00.88S	79-27.81W	g		DRFT05RR
0700	091001	0	TDCT	B CTD 001	MPL	12-01.50S	78-20.80W	g		DRFT05RR
0835	091001	0	TDCT	E CTD 001	MPL	12-01.50S	78-20.80W	g		DRFT05RR
0909	091001	0	TDCT	B CTD 002	MPL	11-59.79S	78-19.61W	g		DRFT05RR
1040	091001	0	TDCT	E CTD 002	MPL	11-59.79S	78-19.61W	g		DRFT05RR
1111	091001	0	TDCT	B CTD 003	MPL	12-01.50S	78-18.70W	g		DRFT05RR
1242	091001	0	TDCT	E CTD 003	MPL	12-01.50S	78-18.70W	g		DRFT05RR
1420	091001	0	TDCT	B CV #1	MPL	11-59.77S	78-19.60W	g		DRFT05RR
2130	091001	0	TDCT	E CV #1	MPL	12-01.50S	78-20.80W	g		DRFT05RR
0056	101001	0	TDCT	B CTD 004	MPL	12-17.17S	78-30.77W	g		DRFT05RR
0304	101001	0	TDCT	E CTD 004	MPL	12-17.20S	78-30.80W	g		DRFT05RR
0446	101001	0	TDCT	B CTD 005	MPL	12-17.20S	78-27.80W	g		DRFT05RR
0710	101001	0	TDCT	E CTD 005	MPL	12-17.20S	78-27.80W	g		DRFT05RR
0755	101001	0	TDCT	B CTD 006	MPL	12-14.80S	78-29.30W	g		DRFT05RR
1001	101001	0	TDCT	E CTD 006	MPL	12-14.80S	78-29.30W	g		DRFT05RR
1107	101001	0	TDCT	B CV #2	MPL	12-14.80S	78-29.30W	g		DRFT05RR
2020	101001	0	TDCT	E CV #2	MPL	12-17.29S	78-30.88W	g		DRFT05RR
0024	111001	0	TDCT	B PXP D13 transponder	MPL	12-17.20S	78-30.80W	g		DRFT05RR
1405	111001	0	TDCT	E PXP D13 pressure c.	MPL	12-17.33S	78-30.69W	g		DRFT05RR
0417	111001	0	TDCT	B CTD 007	MPL	12-10.60S	78-11.00W	g		DRFT05RR
0547	111001	0	TDCT	E CTD 007	MPL	12-10.60S	78-11.00W	g		DRFT05RR
0120	111001	0	TDCT	B CTD 008	MPL	12-16.50S	78-29.00W	g		DRFT05RR
0745	111001	0	TDCT	E CTD 008	MPL	12-10.57S	78-09.02W	g		DRFT05RR
0821	111001	0	TDCT	B CTD 009	MPL	12-08.87S	78-10.00W	g		DRFT05RR
0947	111001	0	TDCT	E CTD 009	MPL	12-08.87S	78-10.00W	g		DRFT05RR

#GMT #TIME #	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
1731	111001	0	TDCT	B	PXP D15 Transponder	MPL	12-17.20S	78-27.70W	g	DRFT05RR
1207	121001	0	TDCT	E	PXP D15	MPL	12-14.62S	78-29.14W	g	DRFT05RR
0048	121001	0	TDCT		PXP D17 transponder	MPL	12-14.55S	78-29.25W	g	DRFT05RR
1423	121001	0	TDCT		PXP D20 transponder	MPL	12-17.20S	78-27.70W	g	DRFT05RR
1500	121001	0	TDCT	B	CV#3	MPL	12-17.08S	78-27.77W	g	DRFT05RR
2206	121001	0	TDCT	E	CV#3	MPL	12-17.48S	78-27.68W	g	DRFT05RR
2250	121001	0	TDCT	B	Pressure case	MPL	12-17.29S	78-27.69W	g	DRFT05RR
2241	131001	0	TDCT	E	Pressure case	MPL	12-10.72S	78-08.88W	g	DRFT05RR
0157	131001	0	TDCT		CTD #010	MPL	12-09.79S	78-10.01W	g	DRFT05RR
0110	131001	0	TDCT	B	PXP D-14 transponder	MPL	12-10.60S	78-11.00W	g	DRFT05RR
1322	131001	0	TDCT	E	PXP D-14 pressure c.	MPL	12-10.74S	78-10.98W	g	DRFT05RR
1437	131001	0	TDCT		D-16 transponder	MPL	12-10.60S	78-08.94W	g	DRFT05RR
2343	131001	0	TDCT	B	D-18 transponder	MPL	12-08.85S	78-09.96W	g	DRFT05RR
1317	141001	0	TDCT	E	D-18 pressure case	MPL	12-08.97S	78-09.84W	g	DRFT05RR
1356	141001	0	TDCT	B	CV#4	MPL	12-08.78S	78-09.95W	g	DRFT05RR
1310	161001	0	TDCT	E	CV#4	MPL	12-12.20S	78-10.00W	g	DRFT05RR
1430	161001	0	TDCT		CTD #011	MPL	12-09.78S	78-09.93W	g	DRFT05RR
1746	171001	0	TDCT		CV #5	MPL	12-17.19S	78-27.71W	g	DRFT05RR
1437	191001	0	TDCT	B	CTD #012	MPL	12-16.37S	78-29.17W	g	DRFT05RR
1210	201001	0	TDCT	E	CTD #012	MPL	12-16.36S	78-29.18W	g	DRFT05RR
1353	241001	0	TDCT		CTD #013	MPL	12-16.36S	78-29.18W	g	DRFT05RR
1425	241001	0	TDCT		Bench Mark 1	MPL	12-16.36S	78-29.18W	g	DRFT05RR
2147	241001	0	TDCT		Bench Mark 2	MPL	12-10.10S	78-09.92W	g	DRFT05RR
0245	251001	0	TDCT	B	CTD #014	MPL	12-10.10S	78-09.93W	g	DRFT05RR
1555	251001	0	TDCT	E	CTD #014	MPL	12-10.09S	78-09.92W	g	DRFT05RR
1605	251001	0	TDCT	B	CTD #015	MPL	12-10.09S	78-09.92W	g	DRFT05RR
2130	291001	0	TDCT	E	CTD #015	MPL	12-10.09S	78-09.92W	g	DRFT05RR

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

*** Tide Guage ***

0122	111001	0	CMTG	B test Tide gauge	MPL	12-16.50S	78-29.00W	g	DRFT05RR
0124	111001	0	CMTG	E Tide gauge	MPL	12-16.50S	78-29.00W	g	DRFT05RR
0141	111001	0	CMTG	B Tide gauge	MPL	12-16.50S	78-29.00W	g	DRFT05RR
2324	111001	0	CMTG	E Tide gauge	MPL	12-17.41S	78-27.59W	g	DRFT05RR
1456	171001	0	CMTG	E Tide gage	MPL	12-16.77S	78-28.83W	g	DRFT05RR
1618	171001	0	CMTG	B Tide gage	MPL	12-16.50S	78-29.00W	g	DRFT05RR
1532	241001	0	CMTG	B Grappled Tide Gage	MPL	12-16.54S	78-29.01W	g	DRFT05RR
1537	241001	0	CMTG	E Tide gage	MPL	12-16.59S	78-28.98W	g	DRFT05RR
2200	241001	0	CMTG	B Tide gauge	MPL	12-10.17S	78-09.94W	g	DRFT05RR
2235	291001	0	CMTG	E Tide gauge	MPL	12-10.19S	78-10.01W	g	DRFT05RR

*** Expendable Bathythermographs ***

0302	290901	0	BTXP	MK12 # 72 Fast_Deep	GDC	09-08.64N	084-42.29W	g	DRFT05RR
1912	290901	0	BTXP	MK12 # 73 Fast_Deep	GDC	06-15.88N	084-25.82W	g	DRFT05RR
1823	300901	0	BTXP	MK12 # 74 Fast_Deep	GDC	01-55.03N	084-00.83W	g	DRFT05RR
0122	011001	0	BTXP	MK12 # 75 Fast_Deep	GDC	00-37.87N	083-53.65W	g	DRFT05RR
1330	011001	0	BTXP	MK12 # 76 Fast_Deep	GDC	01-47.62S	083-39.72W	g	DRFT05RR
1825	011001	0	BTXP	MK12 # 77 Fast_Deep	GDC	02-44.45S	083-34.41W	g	DRFT05RR
0412	021001	0	BTXP	MK12 # 78 Fast_Deep	GDC	03-41.41S	083-25.51W	g	DRFT05RR
1817	021001	0	BTXP	MK12 # 79 Fast_Deep	GDC	06-11.08S	082-20.56W	g	DRFT05RR
0305	031001	0	BTXP	MK12 # 80 Fast_Deep	GDC	07-32.84S	081-16.06W	g	DRFT05RR
1903	031001	0	BTXP	MK12 # 81 Fast_Deep	GDC	10-01.92S	079-26.98W	g	DRFT05RR
0914	061001	0	BTXP	MK12 # 82 Fast_Deep	GDC	12-57.21S	078-57.55W	g	DRFT05RR
2227	061001	0	BTXP	MK12 # 83 Fast_Deep	GDC	13-27.73S	078-33.97W	g	DRFT05RR
2237	071001	0	BTXP	MK12 # 84 Fast_Deep	GDC	11-58.18S	078-42.63W	g	DRFT05RR
1339	081001	0	BTXP	MK12 # 85 Fast_Deep	GDC	11-54.02S	078-23.03W	g	DRFT05RR
0506	121001	0	BTXP	MK12 # 86 Fast_Deep	GDC	12-25.43S	078-47.94W	g	DRFT05RR
2355	291001	0	BTXP	MK12 # 89 Fast_Deep	GDC	12-16.19S	078-22.37W	g	DRFT05RR

*** End Sample Index

DRFT05RR