Report and Index of

Underway Marine Geophysical Data

Cook Expedition

Leg 10

(COOK10MV)

R/V Melville

(Issued November 2001)

Ports:
Naha, Okinawa (21 July 2001)
to
Naha, Okinawa (01 August 2001)

Chief Scientist:
John Burdette, Naval Air Warfare Center
burdettej@navair.navy.mil

Computer Tech - Ron Moe

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

GDC Cruise ID# 295

Report and Index of Navigation
<u>and Underway Geophysical Data</u>

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.

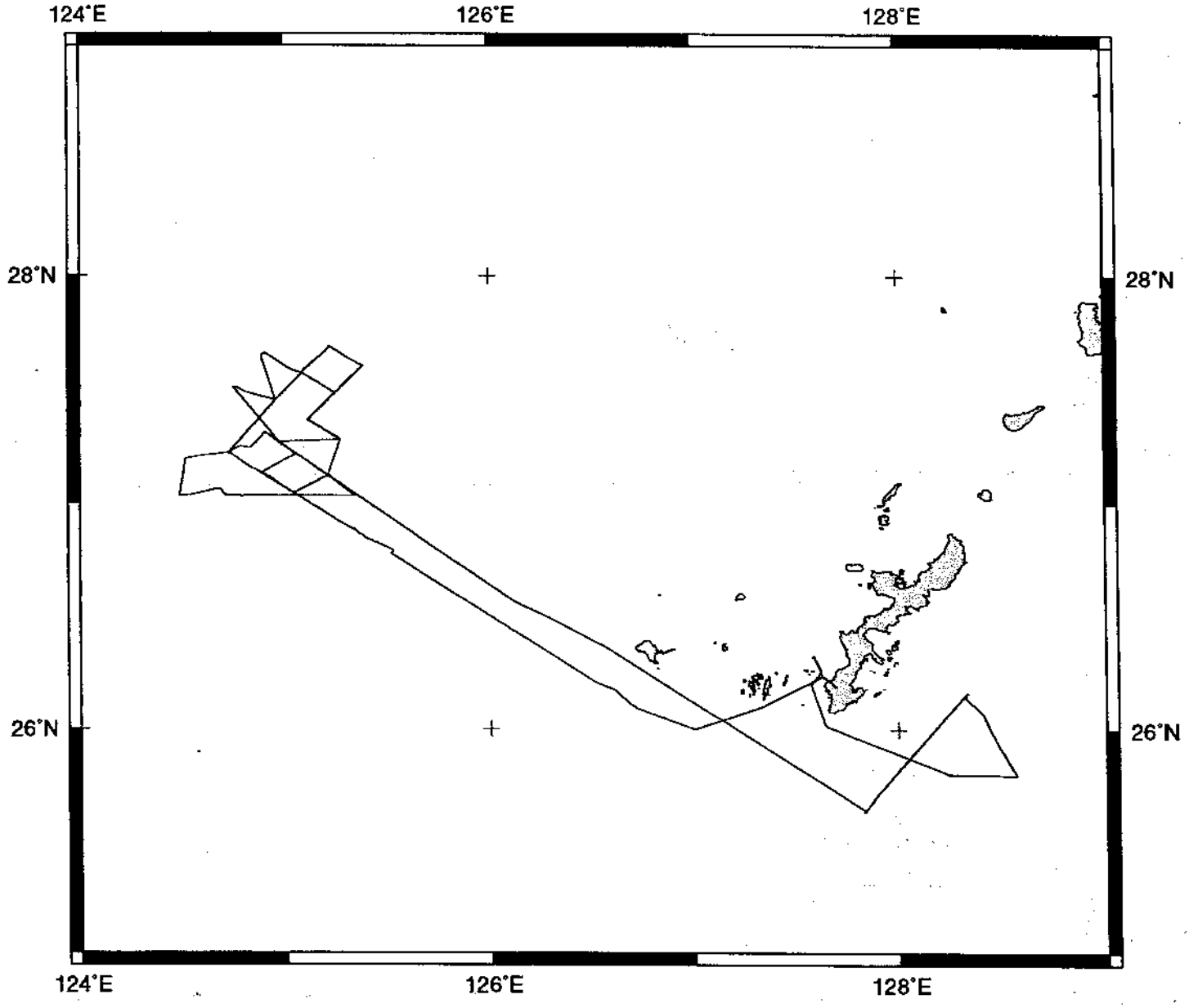
Track Charts– annotated with dates and hour ticks

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



COOK EXPEDITION LEG 10 (COOK10MV)

CO-CHIEF SCIENTISTS: John Burdette & John Savage,NAWC

PORTS: Naha City - Naha City, Okinawa

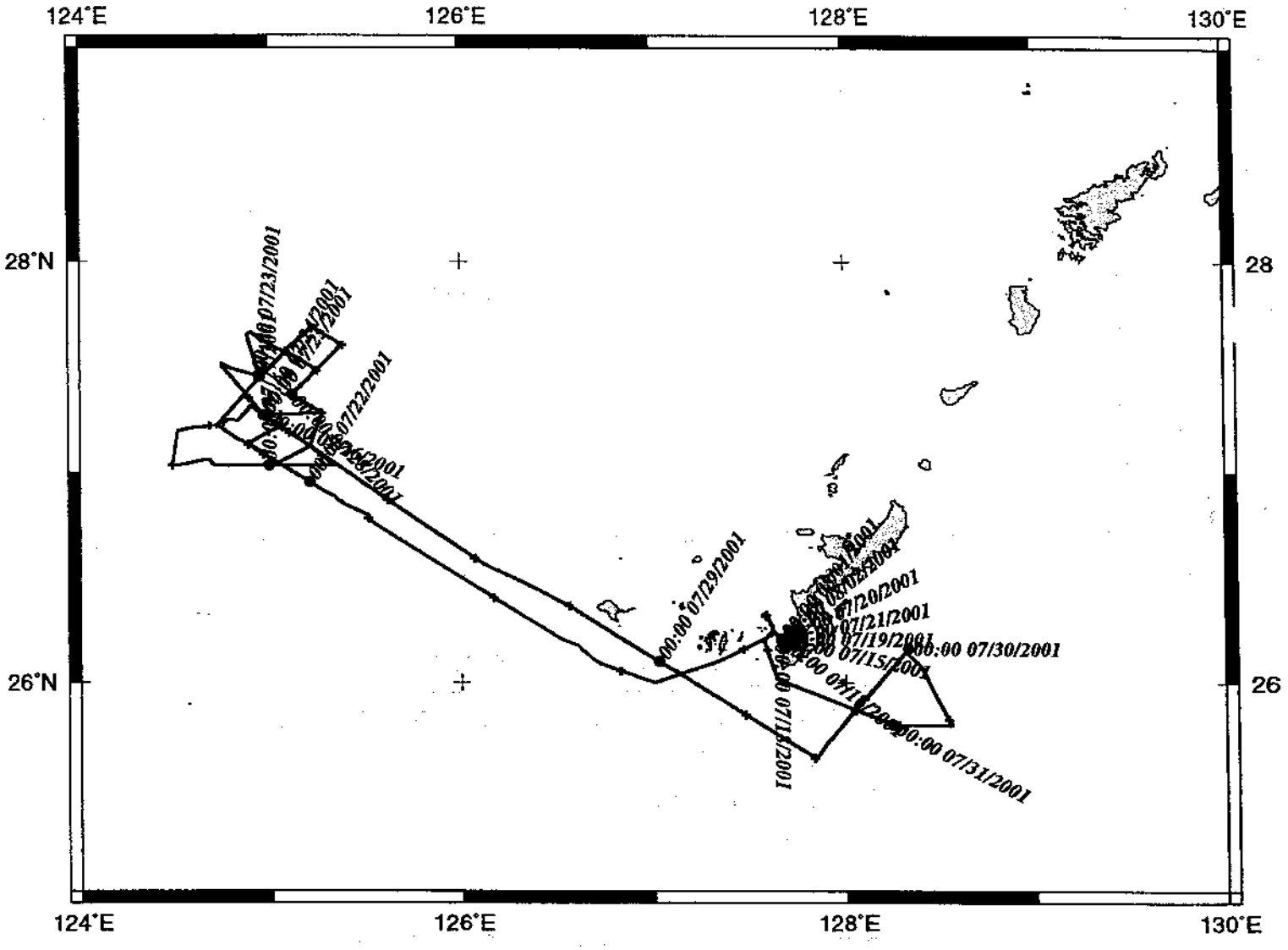
DATES: 21 July - 1 August 2001

SHIP: R/V Melville

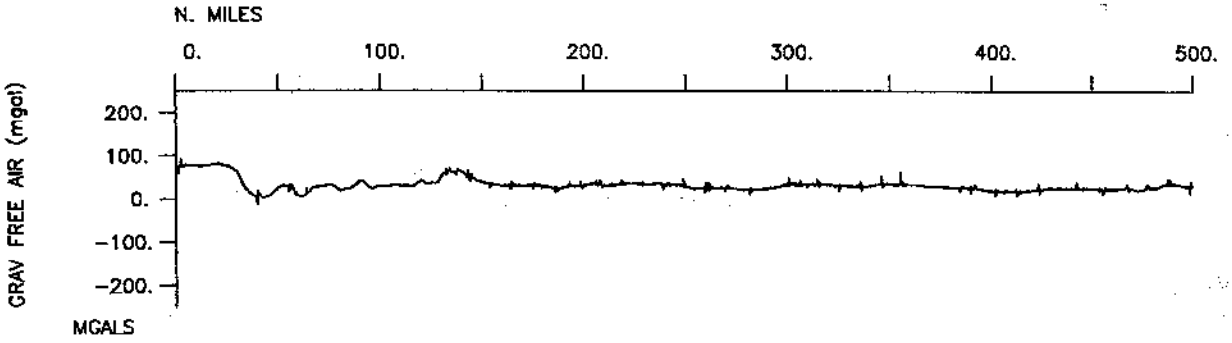
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

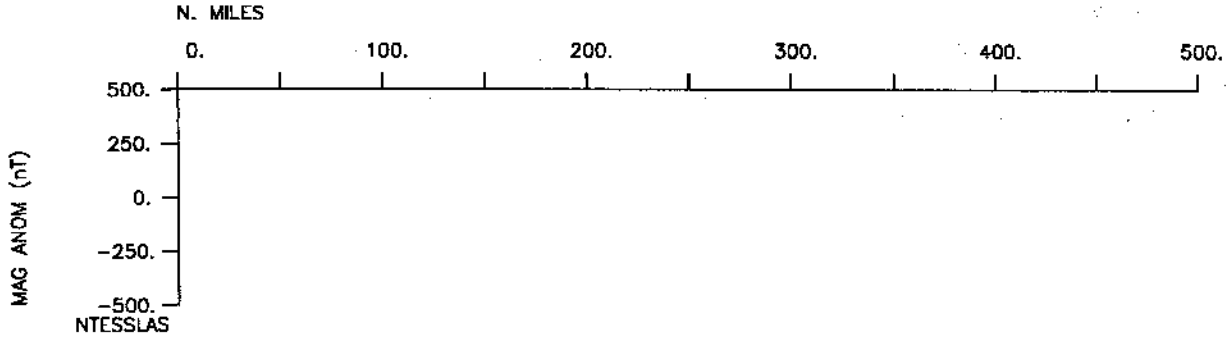
Cruise-874 miles	**Magnetics-none collected**
Bathymetry-none collected	**Seismic Reflection-none collected**
Sea Beam-none collected	**Gravity-874 miles**

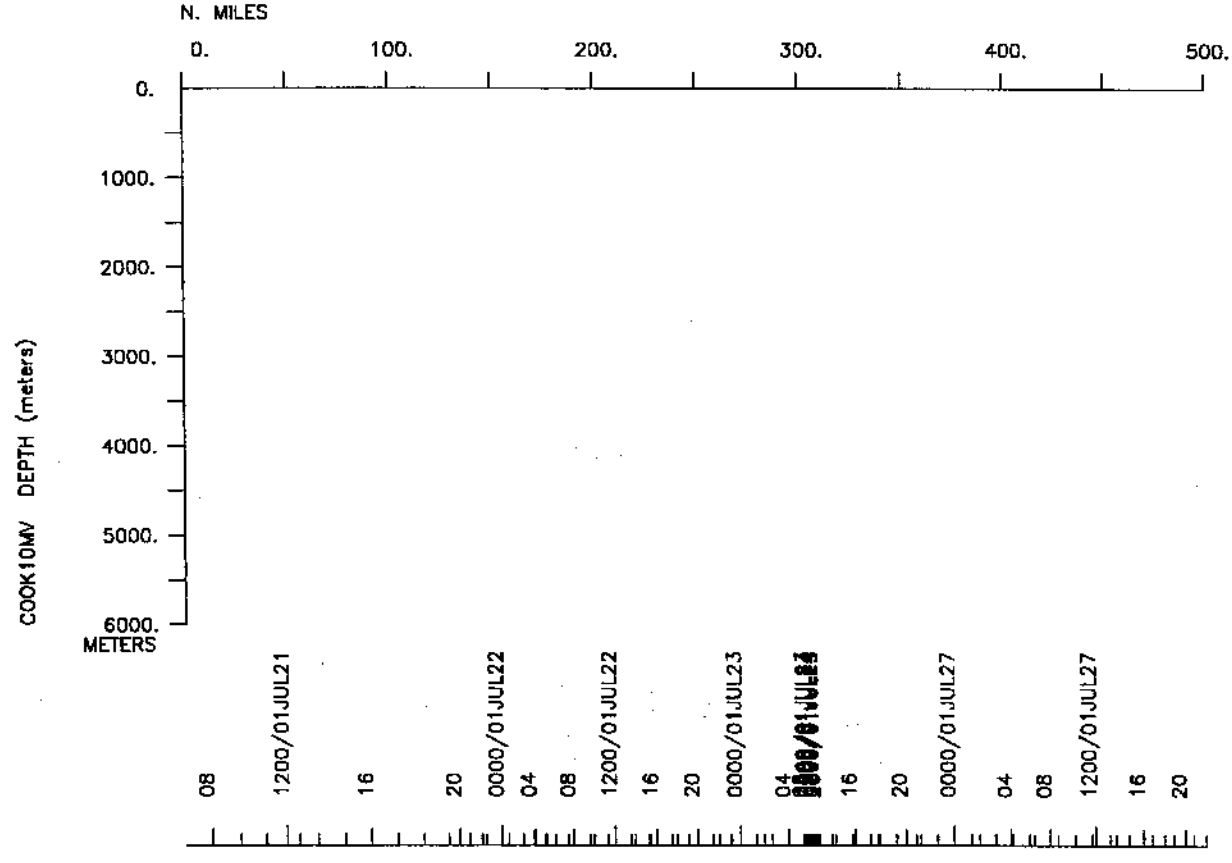
COOK-MV leg 10 Track

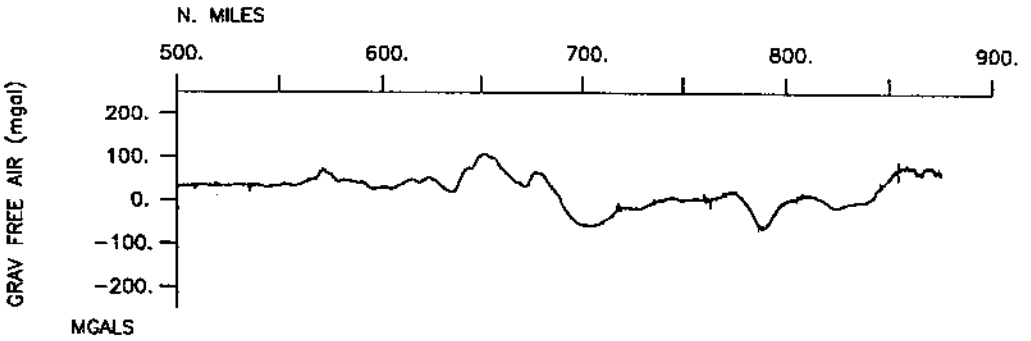


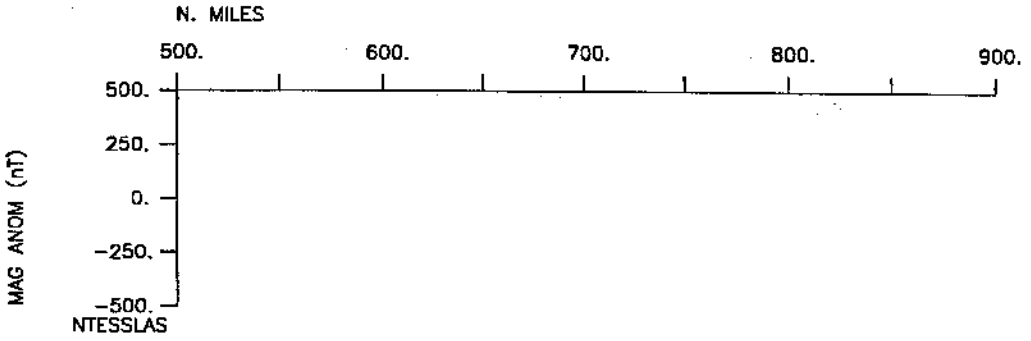
GMT 2001 Oct 25 15:26:52 :Naha - Naha, Okinawa 21 July - 1 August 2100:

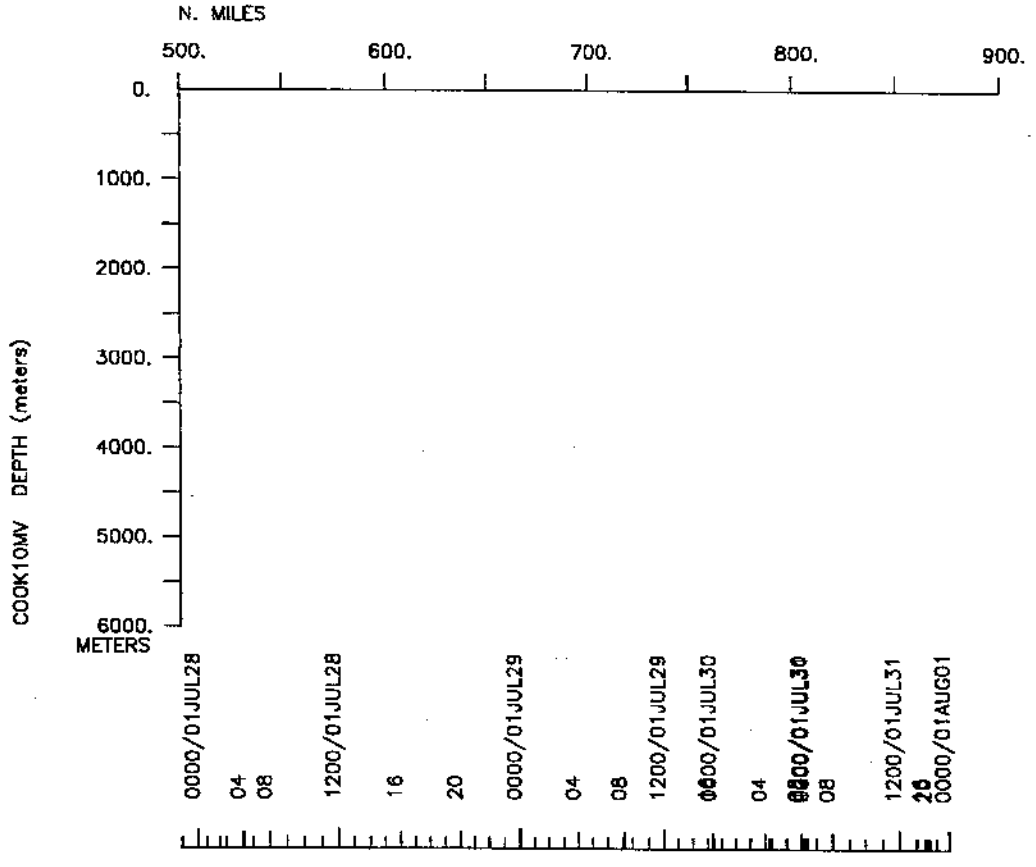

N. MILES
0.
100.
200.
300.
400.
500.
GRAV FREE AIR (mgal)
200.
100.
0.
-100.
-200.
MGALS


N. MILES
0.
100.
200.
300.
400.
500.
MAG ANOM (nT)
500.
250.
0.
-250.
-500.
NTESSLAS


N. MILES
0.
100.
200.
300.
400.
500.
COOK10MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
08
1200/01JUL21
16
20
0000/01JUL22
04
08
1200/01JUL22
16
20
0000/01JUL23
04
16
20
0000/01JUL27
04
08
1200/01JUL27
16
20


N. MILES
500.
600.
700.
800.
900.
GRAV FREE AIR (mgal)
200.
100.
0.
-100.
-200.
MGALS


N. MILES
500.
600.
700.
800.
900.
MAG ANOM (nT)
500.
250.
0.
-250.
-500.
NTESSLAS


N. MILES
500.
600.
700.
800.
900.
COOK10MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/01JUL28
04
08
1200/01JUL28
16
20
0000/01JUL29
04
08
1200/01JUL29
0000/01JUL30
04
08
1200/01JUL31
0000/01AUG01

S.I.O. Sample Index

COOK Expedition

Leg 10

(COOK10MV)

R/V Melville

(Issued November 2001)

PORTS:

Naha, Okinawa (21 July 2001)
to
Naha, Okinawa (01 August 2001)

Chief Scientist – John Burdette
Naval Air Warfare Center
burdettej@navair.navy.mil

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 Group 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.)

GDC Cruise ID# 295

```
#*** Ports ***

0648 210701  0 LGPT B Naha, Japan                26-13.00N 127-41.00E f COOK10MV
0000 010801  0 LGPT E Naha, Japan                26-13.00N 127-41.00E f COOK10MV


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

PECS SIX  Savage, Jack         Chief Scientist    NavalAirWarfareCtr   COOK10MV
PESP SIX  Spikes, Clay         Asst. TD           MAI                  COOK10MV
PESP SIX  Shores, Lee          Asst. TD           MAI                  COOK10MV
PESP SIX  Frankel, Adam        Env. Cons. Pl1     MAI                  COOK10MV
PESP SIX  Reposa, Kathleen     LM-3 Operator      MAI                  COOK10MV
PESP SIX  Hanson, Jeff         LWADCS             LWAD                 COOK10MV
PESP SIX  McEachern, Doug      Unit Coordinator   AAI                  COOK10MV
PESP SIX  Wilhelm, Garry       Unit Coordinator   NAVMAR               COOK10MV
PESP SIX  Fitch, Robert        MACE Deputy        Off.Naval Research   COOK10MV
PESP SIX  DeJaco, Jerry        XF4 Array Operator SSC-SD               COOK10MV
PESP SIX  Herman, John         XF4 Array Operator SSC-SD               COOK10MV
PESP SIX  Nguyen, Huy          XF4 Array Operator SSC-SD               COOK10MV
PESP SIX  Pucillo, Steve       XF4 Array Operator SSC-SD               COOK10MV
PESP SIX  Einhorn, Mike        MACE XF-4          NFESC                COOK10MV
PESP SIX  Ruiz, Allen          MACE XF-4          NFESC                COOK10MV
PESP SIX  Johnson, Victor      LSM PI             CSS                  COOK10MV
PESP SIX  Oeschger, John       LSM Operator       CSS                  COOK10MV
PESP SIX  Casillas, Christian  Env. Analyst       JHU                  COOK10MV
PESP SIX  Frankel, Adam        ENV. Cons. PI      MAI                  COOK10MV
PESP SIX  Reposa, Kethleen     LM-3 Operator      MAI                  COOK10MV
PESP SIX  Koster, Debi         Mar.Mam.Obs.       MAI                  COOK10MV
PESP SIX  Dare, Jennifer       Mar.Mam.Obs.       MAI                  COOK10MV
PESP SIX  Groves, Sonia        Mar.Mam.Obs.       MAI                  COOK10MV
PESP JPN  Uehera, Hitomi       Interpreter        NAVMAR, Japan        COOK10MV
PECT SCG  Moe, Ron             Computer Tech      Scripps Institution  COOK10MV


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

#*** Digital Gravity ***

0648 210701  0 GVDD B Digital Gravity        GDC  26-12.57N 127-39.99E g COOK10MV
0001 010801  0 GVDD E Digital Gravity        GDC  26-12.57N 127-39.99E g COOK10MV


#*** Echo Sounder Record ***

2059 210701  0 DPR3 B 3.5kHz r-01            STS  26-49.45N 125-27.28E g COOK10MV
0800 230701  0 DPR3 E 3.5kHz r-01            STS  27-15.71N 124-58.96E g COOK10MV

1927 260701  0 DPR3 B 3.5kHz r-01            STS  27-07.42N 125-12.50E g COOK10MV
1235 300701  0 DPR3 E 3.5kHz r-01            STS  25-48.02N 128-15.05E g COOK10MV
```

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

#*** Integrated Meteorological Acquisition System ***

0648 210701  0 IMET B weather measurements GDC  26-12.57N 127-39.99E g COOK10MV
0001 010801  0 IMET E weather measurements GDC  26-12.57N 127-39.99E g COOK10MV


#*** Acoustic Doppler Current Profiler ***

0648 210701  0 ADCP B current measurements GDC  26-12.57N 127-39.99E g COOK10MV
0001 010801  0 ADCP E current measurements GDC  26-12.57N 127-39.99E g COOK10MV


#*** Conductivity, Temperature, Depth ***
#*** All samples went to Naval Air Warfare Center ***

1045 210701  0 TDCT B CTD Lash Comex  200M SIX  26-00.00N 127-00.02E g COOK10MV
1103 210701  0 TDCT E CTD Lash Comex       SIX  26-00.00N 127-00.02E g COOK10MV

1247 210701  0 TDCT B CTD Lash Finex  200M SIX  26-05.44N 126-43.21E g COOK10MV
1308 210701  0 TDCT E CTD Lash Finex       SIX  26-05.43N 126-43.21E g COOK10MV

1942 210701  0 TDCT B CTD A-1         220M SIX  26-46.91N 125-30.98E g COOK10MV
2003 210701  0 TDCT E CTD A-1              SIX  26-47.09N 125-31.12E g COOK10MV

2200 210701  0 TDCT B CTD A-2         145M SIX  26-52.16N 125-21.23E g COOK10MV
2218 210701  0 TDCT E CTD A-2              SIX  26-52.26N 125-21.15E g COOK10MV

0011 220701  0 TDCT B CTD A-3         120M SIX  26-57.40N 125-11.91E g COOK10MV
0029 220701  0 TDCT E CTD A-3              SIX  26-57.40N 125-11.91E g COOK10MV

0205 220701  0 TDCT B CTD A-4         105M SIX  27-02.69N 125-02.42E g COOK10MV
0221 220701  0 TDCT E CTD A-4              SIX  27-02.69N 125-02.42E g COOK10MV

0457 220701  0 TDCT B CTD A-5          95M SIX  27-07.94N 124-52.90E g COOK10MV
0514 220701  0 TDCT E CTD A-5              SIX  27-07.81N 124-53.13E g COOK10MV

0700 220701  0 TDCT B CTD A-6         100M SIX  27-13.47N 124-43.32E g COOK10MV
0712 220701  0 TDCT E CTD A-6              SIX  27-13.42N 124-43.28E g COOK10MV

0918 220701  0 TDCT B CTD A-8         100M SIX  27-18.87N 124-53.95E g COOK10MV
0936 220701  0 TDCT E CTD A-8              SIX  27-18.94N 124-53.98E g COOK10MV

1134 220701  0 TDCT B CTD A-9         100M SIX  27-13.03N 125-03.08E g COOK10MV
1149 220701  0 TDCT E CTD A-9              SIX  27-13.03N 125-03.08E g COOK10MV

1327 220701  0 TDCT B CTD A-10        100M SIX  27-07.42N 125-12.40E g COOK10MV
1340 220701  0 TDCT E CTD A-10             SIX  27-07.42N 125-12.40E g COOK10MV

1533 220701  0 TDCT B CTD A-11        110M SIX  27-16.76N 125-16.29E g COOK10MV
1548 220701  0 TDCT E CTD A-11             SIX  27-16.76N 125-16.28E g COOK10MV

1734 220701  0 TDCT B CTD A-12        106M SIX  27-21.98N 125-06.68E g COOK10MV
1850 220701  0 TDCT E CTD A-12             SIX  27-25.06N 125-10.05E g COOK10MV

1942 220701  0 TDCT B CTD A-13        103M SIX  27-29.01N 125-14.61E g COOK10MV
2000 220701  0 TDCT E CTD A-13             SIX  27-29.01N 125-14.61E g COOK10MV

2130 220701  0 TDCT B CTD A-14         97M SIX  27-34.30N 125-04.88E g COOK10MV
2146 220701  0 TDCT E CTD A-14             SIX  27-34.30N 125-04.89E g COOK10MV

2345 220701  0 TDCT B CTD A-15         95M SIX  27-27.24N 124-56.91E g COOK10MV
0001 230701  0 TDCT E CTD A-15             SIX  27-27.36N 124-56.54E g COOK10MV
```

#GMT TIME	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
0137	230701	0	TDCT	B	CTD A-7	110M SIX	27-30.35N	124-44.77E	g	COOK10MV
0153	230701	0	TDCT	E	CTD A-7	SIX	27-30.34N	124-44.78E	g	COOK10MV
0256	250701	0	TDCT	B	CTD @ XF-4	100M SIX	27-16.26N	124-58.09E	g	COOK10MV
0312	250701	0	TDCT	E	CTD XF-4	SIX	27-16.26N	124-58.09E	g	COOK10MV
0700	250701	0	TDCT	B	CTD @ XF-4	100M SIX	27-16.26N	124-58.09E	g	COOK10MV
0718	250701	0	TDCT	E	CTD XF-4	SIX	27-16.26N	124-58.09E	g	COOK10MV
0703	260701	0	TDCT	B	CTD XF-4	100M SIX	27-16.26N	124-58.09E	g	COOK10MV
0720	260701	0	TDCT	E	CTD XF-4	SIX	27-16.26N	124-58.09E	g	COOK10MV
1307	260701	0	TDCT	B	CTD B-20	98M SIX	27-13.01N	125-03.06E	g	COOK10MV
1322	260701	0	TDCT	E	CTD B-20	SIX	27-13.02N	125-03.06E	g	COOK10MV
1516	260701	0	TDCT	B	CTD B-1	100M SIX	27-08.17N	124-52.81E	g	COOK10MV
1530	260701	0	TDCT	E	CTD B-1	SIX	27-08.18N	124-52.81E	g	COOK10MV
1725	260701	0	TDCT	B	CTD B-19	110M SIX	27-02.77N	125-02.31E	g	COOK10MV
1740	260701	0	TDCT	E	CTD B-19	SIX	27-02.77N	125-02.31E	g	COOK10MV
1800	260701	0	TDCT	B	CTD B-18	110M SIX	27-03.40N	125-03.90E	g	COOK10MV
1926	260701	0	TDCT	E	CTD B-18	SIX	27-07.42N	125-12.50E	g	COOK10MV
2042	260701	0	TDCT	B	CTD B-15	127M SIX	27-01.99N	125-20.47E	g	COOK10MV
2100	260701	0	TDCT	E	CTD B-15	SIX	27-02.00N	125-20.47E	g	COOK10MV
0120	270701	0	TDCT	B	CTD B-2	99M SIX	27-01.99N	124-47.66E	g	COOK10MV
0137	270701	0	TDCT	E	CTD	SIX	27-01.91N	124-47.62E	g	COOK10MV
0402	270701	0	TDCT	B	CTD B-3	98M SIX	27-02.01N	124-29.11E	g	COOK10MV
0419	270701	0	TDCT	E	CTD B-3	SIX	27-02.01N	124-29.07E	g	COOK10MV
0615	270701	0	TDCT	B	CTD B-4	98M SIX	27-12.00N	124-30.93E	g	COOK10MV
0629	270701	0	TDCT	E	CTD B-4	SIX	27-11.97N	124-30.90E	g	COOK10MV
0827	270701	0	TDCT	B	CTD B-5	90M SIX	27-13.49N	124-43.34E	g	COOK10MV
0842	270701	0	TDCT	E	CTD B-5	SIX	27-13.49N	124-43.31E	g	COOK10MV
1105	270701	0	TDCT	B	CTD B-7	92M SIX	27-27.21N	124-56.98E	g	COOK10MV
1118	270701	0	TDCT	E	CTD B-7	SIX	27-27.25N	124-56.92E	g	COOK10MV
1326	270701	0	TDCT	B	CTD B-8	97M SIX	27-37.82N	124-53.04E	g	COOK10MV
1341	270701	0	TDCT	E	CTD B-8	SIX	27-37.82N	124-53.02E	g	COOK10MV
1607	270701	0	TDCT	B	CTD B-9	99M SIX	27-34.34N	125-04.90E	g	COOK10MV
1621	270701	0	TDCT	E	CTD B-9	SIX	27-34.43N	125-04.85E	g	COOK10MV
1748	270701	0	TDCT	B	CTD B-10	97M SIX	27-41.34N	125-12.89E	g	COOK10MV
1802	270701	0	TDCT	E	CTD B-10	SIX	27-41.40N	125-12.83E	g	COOK10MV
2157	270701	0	TDCT	B	CTD B-12	97M SIX	27-29.12N	125-14.61E	g	COOK10MV
2214	270701	0	TDCT	E	CTD B-12	SIX	27-29.17N	125-14.71E	g	COOK10MV
0005	280701	0	TDCT	B	CTD B-13	97M SIX	27-22.01N	125-06.61E	g	COOK10MV
0020	280701	0	TDCT	E	CTD B-13	SIX	27-22.01N	125-06.59E	g	COOK10MV
0151	280701	0	TDCT	B	CTD B-14	110M SIX	27-16.80N	125-16.18E	g	COOK10MV
0209	280701	0	TDCT	E	CTD B-14	SIX	27-16.80N	125-16.09E	g	COOK10MV
1106	280701	0	TDCT	B	CTD B-11	104M SIX	26-56.32N	125-30.64E	g	COOK10MV
2006	280701	0	TDCT	E	CTD B-11	SIX	26-21.63N	126-34.16E	g	COOK10MV

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

0712 290701  0 TDCT B CTD D-1            2195M SIX  25-38.53N 127-49.85E g COOK10MV
0856 290701  0 TDCT E CTD D-1                  SIX  25-38.53N 127-49.85E g COOK10MV

0906 290701  0 TDCT B CTD #2 D-1         100M SIX  25-38.53N 127-49.84E g COOK10MV
0920 290701  0 TDCT E CTD #2 D-1               SIX  25-38.53N 127-49.85E g COOK10MV

0425 300701  0 TDCT B CTD 03             1500M SIX  25-47.98N 128-33.81E g COOK10MV
0535 300701  0 TDCT E CTD 03                   SIX  25-47.98N 128-33.81E g COOK10MV

2344 300701  0 TDCT B CTD                 200M SIX  25-48.00N 128-15.00E g COOK10MV
0007 310701  0 TDCT E CTD                      SIX  25-48.00N 128-15.00E g COOK10MV

0335 310701  0 TDCT B CTD 06              200M SIX  25-48.00N 128-15.00E g COOK10MV
0400 310701  0 TDCT E CTD 06                   SIX  25-48.00N 128-15.00E g COOK10MV

0407 310701  0 TDCT B CTD 06             2500M SIX  25-48.00N 128-15.00E g COOK10MV
0550 310701  0 TDCT E CTD 06                   SIX  25-48.00N 128-15.00E g COOK10MV

#*** Grabs ***

0239 220701  0 GBGS   Grab A-4            122M SIX  27-02.69N 125-02.42E g COOK10MV
0250 220701  0 GBGS   Grab A-4                 SIX  27-02.69N 125-02.42E g COOK10MV

0257 220701  0 GBGS   Grab(2) A-4         126M SIX  27-02.68N 125-02.44E g COOK10MV
0309 220701  0 GBGS   Grab(2) A-4              SIX  27-02.56N 125-02.53E g COOK10MV

0724 220701  0 GBGS   Grab A-6                 SIX  27-13.27N 124-43.29E g COOK10MV
0730 220701  0 GBGS   Grab A-6                 SIX  27-13.19N 124-43.28E g COOK10MV

0948 220701  0 GBGS   Grab A-8            118M SIX  27-18.97N 124-53.91E g COOK10MV
0954 220701  0 GBGS   Grab A-8                 SIX  27-18.97N 124-53.91E g COOK10MV

1351 220701  0 GBGS   Grab A-10           125M SIX  27-07.42N 125-12.40E g COOK10MV
1401 220701  0 GBGS   Grab A-10                SIX  27-07.42N 125-12.40E g COOK10MV

1800 220701  0 GBGS   Grab A-12           110M SIX  27-21.98N 125-06.68E g COOK10MV
1810 220701  0 GBGS   Grab A-12                SIX  27-21.98N 125-06.68E g COOK10MV

2155 220701  0 GBGS   Grab A-14            97M SIX  27-34.30N 125-04.88E g COOK10MV
2205 220701  0 GBGS   Grab A-14                SIX  27-34.30N 125-04.89E g COOK10MV

0203 230701  0 GBGS   Grab A-7            111M SIX  27-30.34N 124-44.78E g COOK10MV
0213 230701  0 GBGS   Grab A-7                 SIX  27-30.34N 124-44.78E g COOK10MV

0214 230701  0 GBGS   Grab(2) A-7         112M SIX  27-30.34N 124-44.78E g COOK10MV
0223 230701  0 GBGS   Grab(2) A-               SIX  27-30.34N 124-44.78E g COOK10MV

1321 260701  0 GBGS   Grab B-20           112M SIX  27-13.02N 125-03.06E g COOK10MV
1340 260701  0 GBGS   Grab B-20                SIX  27-13.02N 125-03.06E g COOK10MV

1540 260701  0 GBGS   Grab B-1            114M SIX  27-08.18N 124-52.81E g COOK10MV
1550 260701  0 GBGS   Grab B-1                 SIX  27-08.18N 124-52.81E g COOK10MV

2106 260701  0 GBGS   Grab B-15           143M SIX  27-02.00N 125-20.47E g COOK10MV
2132 260701  0 GBGS   Grab B-15                SIX  27-01.99N 125-20.50E g COOK10MV

0426 270701  0 GBGS   Grab B-3            115M SIX  27-01.98N 124-29.05E g COOK10MV
0438 270701  0 GBGS   Grab B-3                 SIX  27-01.91N 124-29.05E g COOK10MV
```

#GMT TIME	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER		DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
0439	270701	0	GBGS		Grab(2) B-3	118M	SIX	27-01.91N	124-29.05E	g	COOK10MV
0446	270701	0	GBGS		Grab(2) B-3		SIX	27-01.91N	124-29.06E	g	COOK10MV
0638	270701	0	GBGS		Grab B-4	124M	SIX	27-11.92N	124-30.90E	g	COOK10MV
0648	270701	0	GBGS		Grab B-4		SIX	27-11.85N	124-30.89E	g	COOK10MV
1127	270701	0	GBGS		Grab B-7	92M	SIX	27-27.25N	124-56.86E	g	COOK10MV
1135	270701	0	GBGS		Grab B-7		SIX	27-27.27N	124-56.85E	g	COOK10MV
1350	270701	0	GBGS		Grab B-8	110M	SIX	27-37.82N	124-53.01E	g	COOK10MV
1358	270701	0	GBGS		Grab B-8		SIX	27-37.83N	124-52.99E	g	COOK10MV
1809	270701	0	GBGS		Grab B-10	110M	SIX	27-41.46N	125-12.88E	g	COOK10MV
1820	270701	0	GBGS		Grab B-10		SIX	27-41.46N	125-12.93E	g	COOK10MV
2221	270701	0	GBGS		Grab B-12	115M	SIX	27-29.15N	125-14.69E	g	COOK10MV
2230	270701	0	GBGS		Grab B-12		SIX	27-29.15N	125-14.73E	g	COOK10MV
0217	280701	0	GBGS		Grab B-14	110M	SIX	27-16.80N	125-16.14E	g	COOK10MV
0229	280701	0	GBGS		Grab B-14		SIX	27-16.85N	125-16.14E	g	COOK10MV
0444	280701	0	GBGS		Grab XF-4	114M	SIX	27-16.36N	124-58.04E	g	COOK10MV
0453	280701	0	GBGS		Grab on		SIX	27-16.36N	124-58.04E	g	COOK10MV
2010	280701	0	GBGS		Grab B-11	118M	SIX	26-21.38N	126-34.61E	g	COOK10MV
2020	280701	0	GBGS		Grab B-11		SIX	26-20.73N	126-35.74E	g	COOK10MV
1224	300701	0	GBGS		Grab	2715M	SIX	25-48.02N	128-15.05E	g	COOK10MV
1346	300701	0	GBGS		Grab		SIX	25-48.02N	128-15.05E	g	COOK10MV

End Sample Index COOK10MV