

Mooring Deployment Record

Project Name: <i>Discovery Passage</i>	
Project Area: <i>North Georgia St.</i>	
Mooring Name: <i>DPN1-C</i>	Station Name: <i>DPN1</i>
Latitude: <i>49° 57.766</i>	Longitude: <i>125° 08.749</i>
Depth: <i>152 m / datum = 151 m</i>	Tide:
Mag. Declination:	Time Zone: <i>UTC</i>
Date: <i>April 30, 2010</i>	Time: <i>2117 UTC</i>
Remarks: <i>the mCat that was to be deployed on the 75kHz was held back!</i>	

Recovery

Date: <i>Sep. 15 2010</i>	Time: <i>1417 PDT</i>
Remarks: <i>recovered after some acoustic location, off-station</i>	
<i>* @ position 49° 57.8776' 125° 08.5518 app. 310 m</i>	
Instruments <i>to N.E.</i>	

Type	Serial #	Depth	Time In:	Time Out	Notes
RLM7	9143	104m	2101 UTC		
RLM7	10321	129m	2102 UTC		
75KHz	8865	141 m	2107 UTC		Takes 4x 6051 batts
					Seabird needed a new retro (not deployed)

Releases

Release	Serial #	Range:	Release	Freq	Other
<i>AR 861</i>	<i>737</i>	<i>1637</i>	<i>1655</i>	<i>12</i>	<i>1649</i>

Pingers

Pinger	Serial #	Voltage	Freq
<i>Helle</i>	<i>8002</i>	<i>19.1 V, 100</i>	<i>27 x 1/4</i>
<i>RJE</i>		<i>6.41</i>	<i>27 x 1/2</i>

Flotation

Type	Serial #	Size	Colour	Type	Serial #	Size	Colour
<i>SS37</i>	<i>2458</i>	<i>37"</i>	<i>yellow</i>				
<i>FT1545</i>		<i>45"</i>	<i>orange</i>				

7 RCM 11 Deployment Sheet

Instrument Serial: 9143 #ofChannels: 6 Recording Interval: 60
 DSU ID: 4365 Project: Discovery Passage
 File ID: _____

Pressure Sensor:

Type: 3269 B
 Range: 0-500 PSE
 Serial#: 1252

Conductivity Cell:

Type: _____
 Range: _____
 Serial#: 1343

Temperature Sensor:

Type: _____
 Range: Low
 Serial#: 9143

^{Compass} ~~Doppler Current~~ Sensor:

Type: 1248
 Serial#: 15144

Max Depth: 368 meters

First Record:

Channel 1	<u>273</u>
Channel 2	<u>806</u>
Channel 3	<u>0</u>
Channel 4	<u>40</u>
Channel 5	<u>731</u>
Channel 6	<u>2</u>
Channel 7	
Channel 8	

Date: April 30 Time: 2000 UTC
2010

B_{in} 9.92V
 D_{in} _____
 T_{in} _____

Last Record:

Channel 1	
Channel 2	
Channel 3	
Channel 4	
Channel 5	
Channel 6	
Channel 7	
Channel 8	

Date: 18-Sept-2010 Time: 19:59:57 # 21,162

B_{out} 8.89V
 D_{out} _____
 T_{out} _____

NOTES: Calibrate upon return
Rotor missing upon recovery

RCM 11 Deployment Sheet

Instrument Serial: 10321 #ofChannels: 6 Recording Interval: 60
DSU ID: 4290 Project: Discovery Passage
File ID: _____

Pressure Sensor:

Type: 3000
Range: 0-500 PSI
Serial#: 51677.14

Conductivity Cell:

Type: _____
Range: 32
Serial#: 2584

Compass -17494

~~F570~~

Temperature Sensor:

Type: _____
Range: LOW
Serial#: 10321

Doppler Current Sensor:

Type: _____
Serial#: _____

Max Depth: 368 meters

First Record:

Channel 1	<u>997</u>
Channel 2	<u>831</u>
Channel 3	<u>269</u>
Channel 4	<u>48</u>
Channel 5	<u>830</u>
Channel 6	<u>6</u>
Channel 7	
Channel 8	

Date: April 30, 2000 Time: 1900 UTC

Bat in 982V

Date in _____

Time in _____

Last Record:

Channel 1	
Channel 2	
Channel 3	
Channel 4	
Channel 5	
Channel 6	
Channel 7	
Channel 8	

Date: 16-Sep-10 Time: 14:00:49

Bat _____

Date _____

Time _____

NOTES:

Calibrate upon return
- paddle missing on gear this unit
- DS4 display wonky

PlanADCP (Advanced) : [Dpl1]
 BackToSC Settings View Help

CAUTION: Not enough battery packs for the deployment

Basic Advanced Expert

Environmental Setup:	Profiling Setup:	Deployment Consequences:
Transducer Depth: 160 m	Pings Per Ensemble: 22	First Cell Range: 16.80 m
Salinity: 31 ppt	Number of Depth Cells: 20	Last Cell Range: 168.80 m
Magnetic Variation: 0 °	Depth Cell Size: 8 m	Max Range: 491.11 m
Temperature: 7 °C		Standard Deviation: 1.62 cm/s
		Ensemble Size: 554 bytes
		Storage Required: 9.26 MB
		Power Usage: 1804.10 Wh
		Battery Pack Usage: 4.0

Deployment Timing Setup:

Duration: 365 days

Ensemble Interval: 00:30:00.00

Ping Int(☒ Auto): 00:01:21.81

Min TP

☐ Ping Immediately After Deployment

First Ping Date and Time:

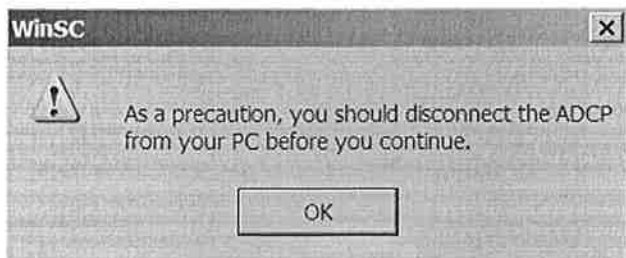
30-Apr-2010 21:00:00

Notes

8865-75kHz - 4x6051 batts in blu cage
 DPN1-C
 Start April 30, 2010 @ 2100UTC

Workhorse Long Ranger: 75 kHz/ High Power/ High Res./ 4 Battery Packs/ Memory: 64 MB

CR1
 CQ255
 CF11101
 EA0
 EB0
 ED1600
 ES31
 EX11111
 EZ1111111
 WA50
 WB0
 WD111100000
 WF704
 WN20
 WP22
 WS800
 WV175
 TE00:30:00.00
 TP01:21.81
 TF10/04/30 21:00:00
 CK
 CS



>>>>> Function starting 04/30/10 20:08:50 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
RD Instruments (c) 1996-2005
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>TS100430200853
>CZ

Powering Down

>>>>> Function starting 04/30/10 20:08:57 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
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>DEPLOY?

Deployment Commands:

RE ----- Recorder ErAsE
RN ----- Set Deployment Name

WD = 111 100 000 ----- Data Out (Vel,Cor,Amp; PG,St,P0; P1,P2,P3)
WF = 0704 ----- Blank After Transmit (cm)
WN = 020 ----- Number of depth cells (1-128)
WP = 00017 ----- Pings per Ensemble (0-16384)
WS = 0800 ----- Depth Cell Size (cm)
WV = 175 ----- Mode 1 Ambiguity Vel (cm/s radial)

TE = 00:15:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)
TF = **/**/**, **: **: ** --- Time of First Ping (yr/mon/day, hour:min:sec)
TP = 00:52.94 ----- Time per Ping (min:sec.sec/100)
TS = 10/04/30, 20:09:00 --- Time Set (yr/mon/day, hour:min:sec)

EA = +00000 ----- Heading Alignment (1/100 deg)
EB = +00000 ----- Heading Bias (1/100 deg)
ED = 01600 ----- Transducer Depth (0 - 65535 dm)
ES = 31 ----- Salinity (0-40 pp thousand)
EX = 11111 ----- Coord Transform (Xform: Type,Tilts,3 Bm,Map)
EZ = 1111101 ----- Sensor Source (C,D,H,P,R,S,T)

Press any key to continue

CF = 11101 ----- Flow

Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)

CK ----- Keep Parameters as USER Defaults
CR # ----- Retrieve Parameters (0 = USER, 1 = FACTORY)
CS ----- Start Deployment

>SYSTEM?

System Control, Data Recovery and Testing Commands:

AC ----- Output Active Fluxgate & Tilt Calibration data
AF ----- Field calibrate to remove hard/soft iron error
AR ----- Restore factory fluxgate calibration data
AX ----- Examine compass performance
AZ ----- Zero pressure reading

CB = 411 ----- Serial Port Control (Baud; Par; Stop)

CP # ----- Polled Mode (0 = NORMAL, 1 = POLLED)
CZ ----- Power Down Instrument

FC ----- Clear Fault Log
FD ----- Display Fault Log

OL ----- Display Features List

PA ----- Pre-Deployment Tests
PC1 ----- Beam Continuity
PC2 ----- Sensor Data
PS0 ----- System Configuration
PS3 ----- Transformation Matrices

RR ----- Recorder Directory

Press any key to continue

RF -----

Recorder Space used/free (bytes)

RY ----- Upload Recorder Files to Host

>TS?

TS = 10/04/30,20:09:05 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 8865

Frequency: 76800 HZ

Configuration: 4 BEAM, JANUS

Match Layer: 10

Beam Angle: 20 DEGREES

Beam Pattern: CONVEX

Orientation: DOWN

Sensor(s): HEADING TILT 1 TILT 2 DEPTH TEMPERATURE PRESSURE

Pressure Sens Coefficients:

c3 = -2.680989E-15

c2 = -7.961946E-08

c1 = +5.736878E-01

Offset = +7.193883E+01

Temp Sens Offset: -0.13 degrees C

CPU Firmware: 16.28 [0]

Boot Code Ver: Required: 1.13 Actual: 1.13

DEM0D #1 Ver: ad48, Type: 1f

DEM0D #2 Ver: ad48, Type: 1f

PWRTIMG Ver: 85d3, Type: 6

Board Serial Number Data:

2D 00 00 00 93 AF 48 09 CPU727-2000-00J

BF 00 00 00 82 BE 52 09 HPA727-3009-00A

64 00 00 00 93 A2 66 09 REC727-1004-06A

7A 00 00 00 7E 99 AE 09 TUN727-1005-06A

72 00 00 00 86 83 05 09 HPI727-3007-00A

B7 00 00 00 86 9D 47 09 DSP727-2001-06G

>PA

PRE-DEPLOYMENT TESTS

CPU TESTS:

RTC.....PASS

```

RAM.....PASS
ROM.....PASS
RECORDER TESTS:
  PC Card #0.....DETECTED
    Card Detect.....PASS
    Communication.....PASS
    DOS Structure.....PASS
    Sector Test (short).....PASS
  PC Card #1.....NOT DETECTED
DSP TESTS:
  Timing RAM.....PASS
  Demod RAM.....PASS
  Demod REG.....PASS
  FIFOs.....PASS
SYSTEM TESTS:
  XILINX Interrupts... IRQ3  IRQ3  IRQ3 ...PASS
  Wide Bandwidth.....***FAIL***
  Narrow Bandwidth.....***FAIL***
  RSSI Filter.....PASS
  Transmit.....PASS
SENSOR TESTS:
  H/W Operation.....PASS
>PC2

```

Press any key to quit sensor display ...

All Sensors are Internal Only.

Heading	Pitch	Roll	Up/Down	Attitude Temp	Ambient Temp	PRESSURE
309.35ø	1.85ø	0.33ø	Down	17.43øC	16.51øC	-4.4
kPa309.30ø	1.81ø	0.32ø	Down	17.43øC	16.49øC	-4.8
kPa309.36ø	1.82ø	0.33ø	Down	17.43øC	16.51øC	-1.3

kPa

>RS

RS = 000,061 ----- REC SPACE USED (MB), FREE (MB)

>PC1

BEAM CONTINUITY TEST

When prompted to do so, vigorously rub the selected beam's face.

If a beam does not PASS the test, send any character to the ADCP to automatically select the next beam.

Collecting Statistical Data...

29	34	35	32	28	33	36	32	29	34	35	32	29	34	35	32	29	34	36	32
29	34	36	32	29	34	36	32	29	33	36	32	29	33	35	32	29	33	35	32
29	33	35	32	29	33	35	32	29	33	35	32	29	33	35	32	29	33	35	32
29	33	35	32	29	33	35	32	29	33	35	32	29	33	35	32	29	33	35	32
29	33	35	32	29	33	35	32	29	33	35	32	29	33	36	32	29	33	36	32
29	33	36	32	29	33	36	32	29	33	36	32	29	33	36	32	29	33	36	32
29	33	36	32	29	33	36	32	29	33	35	32	29	33	35	32	29	33	35	32
29	33	36	32	29	33	36	32	29	33	35	32	29	33	35	32	29	33	35	32
29	33	35	32	29	33	35	32	29	33	35	32	29	33	35	32	29	33	35	32

29 33 35 32 29 33 35 32 29 33 35 32 29 33 35 32 29 33 35 32
29 33 35 32 29 33 35 32 29 33 35 32 29 33 35 32 29 33 35 32
29 33 35 32 29 33 35 32 29 33 35 32 29 33 35 32 29 33 35 32

Rub Beam 1 = PASS
Rub Beam 2 = PASS
Rub Beam 3 = PASS
Rub Beam 4 = PASS

>CZ

Powering Down

>>>>> Function starting 04/30/10 20:10:55 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
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>AZ

Pressure Offset Updated in NVRAM.

>CZ

Powering Down

>>>>> Function starting 04/30/10 20:11:10 >>>>>

[BREAK Wakeup A]
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>RE ErASE erasing...

Recorder erased.

>CZ

Powering Down

>>>>> Function starting 04/30/10 20:12:22 >>>>>

[BREAK Wakeup A]
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>RR

Recorder Directory:

Volume serial number for device #0 is c497-71b7

No files found.

Bytes used on device #0 = 0
Total capacity = 63680512 bytes
Total bytes used = 0 bytes in 0 files
Total bytes free = 63680512 bytes

>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.28

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>CR1

[Parameters set to FACTORY defaults]

>CQ255

>CF11101

>EA0

>EB0

>ED1600

>ES31

>EX11111

>EZ1111111

>WA50

>WB0

>WD111100000

>WF704

>WN20

>WP22

>WS800

>WV175

>TE00:30:00.00

>TP01:21.81

>TF10/04/30 21:00:00

>CK

[Parameters saved as USER defaults]

>The command CS is not allowed in this command file. It has been ignored.

>The following commands are generated by this program:

>CF?

CF = 11101 ----- Flow Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)

>CF11101

>RN 8865_

>CS