

DEPLOYMENT RECORD

Project Name: Victoria Sill Start Date: May 07 End Date: Sep. 07
 Mooring Name: AS04-H Station Name: AS04

Geog. Desc.: Constance Bank Tide: +2 m. Victoria
 Latitude: 48°18.009' Longitude: 123°22.549'
 Water Depth: 114m datum Ice Thickness:
 Magnetic decl: Time Zone: PDT Anchor Type: 3wheels 1995/ks
 Date: May 20, 2007 Time Anchor Dropped: 0840 PDT Date:
 Remarks: - lifting bail on SS37 M246 suspect - change this buoy out*
- used spare Argos M265 with duplicate ID 7363 - change out as well*

RECOVERY RECORD

Date: Sep. 17, 2007 Time Anchor Released: 1623 PDT
 Remarks: - some difficulty getting response to arm command
- good ranges + released first attempt.

INSTRUMENTS (Start at TOP) - post recovery bench test was good.

Type	Serial #	Depth	Time in	Time Out	Notes
ADCP	8942	107m	0840		
RCM7	5160	110m	0840		

Argos 7363

TT 301 #81 FR2

FR1+2

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes
RT661	153	6484	6451	B000	6452/6453			Deploy FR1+2 OFF
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
OML	1/4x27	87140010	/	/	/	19.31	/	/

FLOTATION

Type	Serial #	Size	Colour
8 Viny + Frame			Orange
SS37 M246		37"	yellow

Type	Serial #	Size	Colour

Data Entry by:

PlanADCP (Advanced) : [AS04H]

BackToSC Settings View Help

CAUTION: Not enough battery packs for the deployment

Basic Advanced Expert

Environmental Setup: Transducer Depth: 111 m Salinity: 34 ppt Magnetic Variation: 0 Temperature: 8 °C	Profiling Setup: Pings Per Ensemble: 65 Number of Depth Cells: 30 Depth Cell Size: 4 m Mode: 1	Deployment Consequences: First Cell Range: 6.11 m Last Cell Range: 122.11 m Max Range: 138.56 m Standard Deviation: 0.92 cm/s Ensemble Size: 754 bytes Storage Required: 10.35 MB Power Usage: 451.10 Wh Battery Pack Usage: 1.0
--	---	---

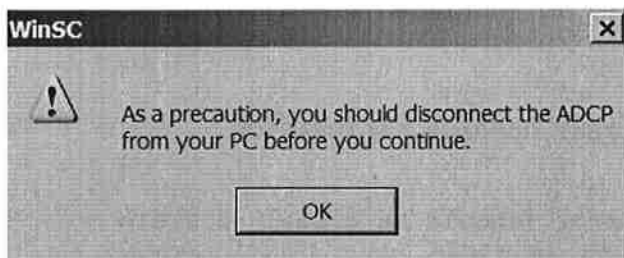
Deployment Timing Setup:
 Duration: 150 days
 Ensemble Interval: 00:15:00.00
 Ping Int (☒ Auto): 00:00:13.84

☐ Ping Immediately After Deployment
 First Ping Date and Time: 12-May-2007 12:00:00

Notes:
 Mooring: AS04-H
 Serial: 8942 Baud: 115200
 Start: May 12, 2007 @ 1200UTC
 Internal pack only

Workhorse Sentinel: 300 kHz/ Long Range/ 1 Battery Pack/ Memory: 1024 MB

NUM



>>>>> Function starting 05/10/07 20:42:07 >>>>>

[BREAK Wakeup A]
 WorkHorse Broadband ADCP Version 16.28
 RD Instruments (c) 1996-2005
 All Rights Reserved.
 >TS070510204211
 >CZ

Powering Down

>>>>> Function starting 05/10/07 20:42:14 >>>>>

[BREAK Wakeup A]
 WorkHorse Broadband ADCP Version 16.28
 RD Instruments (c) 1996-2005
 All Rights Reserved.
 >AX

RDI Compass Error Estimating Algorithm

Press any key to start taking data after the instrument is setup.

Rotate the unit in a plane until all data samples are acquired...
rotate less than 50/sec. Press Q to quit.

N	NE	E	SE	S	SW	W	NW
N							
^		^		^		^	
^							

Accumulating data ...

Calculating compass performance ...

>>> Total error: 2.50 <<<

Press D for details or any other key to continue...

HEADING ERROR ESTIMATE FOR THE CURRENT COMPASS CALIBRATION:

OVERALL ERROR:

Peak Double + Single Cycle Error (should be < 50): ñ 2.510

DETAILED ERROR SUMMARY:

Single Cycle Error:	ñ 2.510
Double Cycle Error:	ñ 0.150
Largest Double plus Single Cycle Error:	ñ 2.660
RMS of 3rd Order and Higher + Random Error:	ñ 0.530

Orientation:	Up		
Average Pitch:	-0.540	Pitch Standard Dev:	0.370
Average Roll:	0.200	Roll Standard Dev:	0.260

Successfully evaluated compass performance for the current compass calibration.

Press any key to continue...

>CZ

Powering Down

>>>>> Function starting 05/10/07 20:43:41 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
RD Instruments (c) 1996-2005
All Rights Reserved.

>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 = 0176 ----- Blank After Transmit (cm)
WN = 030 ----- Number of depth cells (1-128)
WP = 00045 ----- Pings per Ensemble (0-16384)
WS = 0400 ----- Depth Cell Size (cm)
WV = 175 ----- Mode 1 Ambiguity Vel (cm/s radial)

TE = 01:00:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)
TF = **/**/**,**:**:*** --- Time of First Ping (yr/mon/day,hour:min:sec)
TP = 01:20.00 ----- Time per Ping (min:sec.sec/100)
TS = 07/05/10,20:43:44 --- Time Set (yr/mon/day,hour:min:sec)

EA = +00000 ----- Heading Alignment (1/100 deg)
EB = +00000 ----- Heading Bias (1/100 deg)
ED = 00000 ----- Transducer Depth (0 - 65535 dm)
ES = 35 ----- 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 = 11111 ----- 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 = 07/05/10,20:43:53 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 8942

Frequency: 307200 HZ

Configuration: 4 BEAM, JANUS

Match Layer: 10

Beam Angle: 20 DEGREES

Beam Pattern: CONVEX

Orientation: UP

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

Pressure Sens Coefficients:

c3 = -2.459703E-15

c2 = -9.793993E-09

c1 = +1.242588E-01

Offset = +5.170604E+01

Temp Sens Offset: -0.22 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: 4

Board Serial Number Data:

FC 00 00 00 93 B5 D0 09 REC727-1000-04E

DB 00 00 00 93 AE 23 09 CPU727-2000-00J

36 00 00 00 93 AE 13 09 PIO727-3000-00C

2A 00 00 00 93 B9 27 09 DSP727-2001-04G

>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.....DETECTED

Card Detect.....PASS

Communication.....PASS

DOS Structure.....PASS

Sector Test (short).....PASS

DSP TESTS:

Timing RAM.....PASS

Demod RAM.....PASS

```

Demod REG.....PASS
FIFOs.....PASS
SYSTEM TESTS:
XILINX Interrupts... IRQ3  IRQ3  IRQ3  ...PASS
Wide Bandwidth.....PASS
Narrow Bandwidth.....PASS
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						
97.970	0.040	0.810	Up	20.980C	20.460C	-
3.8 kPa						
97.380	0.380	0.470	Up	21.000C	20.460C	-
2.2 kPa						
98.110	0.060	0.700	Up	21.000C	20.470C	-
5.7 kPa						
95.850	0.360	-0.420	Up	21.010C	20.470C	-
6.4 kPa						
92.990	2.140	0.400	Up	21.060C	20.440C	-
3.6 kPa						
83.990	0.650	2.190	Up	21.010C	20.460C	-
6.6 kPa						
82.420	0.870	0.660	Up	21.010C	20.470C	-
5.1 kPa						
64.760	-0.220	-0.470	Up	21.150C	20.450C	-
2.9 kPa						
74.810	3.080	-0.270	Up	21.010C	20.450C	-
5.8 kPa						
66.530	22.130	0.730	Up	21.060C	20.460C	-
3.1 kPa						
76.810	23.970	1.040	Up	21.150C	20.470C	-
5.5 kPa						
64.120	23.990	-5.710	Up	21.050C	20.450C	-
5.5 kPa						
63.130	24.070	-26.450	Up	21.060C	20.480C	-
2.3 kPa						
58.460	24.070	-26.530	Up	21.020C	20.450C	-
6.3 kPa						
66.790	3.340	-6.090	Up	20.960C	20.470C	-
4.4 kPa						
68.990	1.520	1.650	Up	21.200C	20.470C	-
5.0 kPa						
68.150	2.310	1.760	Up	21.190C	20.450C	-
4.7 kPa						

>RS

RS = 000,1036 ----- REC SPACE USED (MB), FREE (MB)

>PC1

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

Collecting Statistical Data...

[illegible]

44 41 43 44
44 41 43 44
44 41 43 44
44 41 43 45
44 41 43 44
44 41 43 44
44 41 43 44
44 41 43 44
44 41 43 44
44 41 43 44
44 41 43 44
44 41 43 45
44 41 43 45
44 41 43 45
44 41 43 45
44 41 43 44
44 41 43 44

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

>CZ

Powering Down

>>>>> Function starting 05/10/07 20:45:09 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
RD Instruments (c) 1996-2005
All Rights Reserved.

>AZ
Pressure Offset Updated in NVRAM.

>CZ

Powering Down

>>>>> Function starting 05/10/07 20:45:17 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
RD Instruments (c) 1996-2005
All Rights Reserved.

>RE ErASE .erasing...
Recorder erased.

>CZ

Powering Down

>>>>> Function starting 05/10/07 20:45:29 >>>>>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.28

RD Instruments (c) 1996-2005

All Rights Reserved.

>RR

Recorder Directory:

Volume serial number for device #0 is a4ae-2016

No files found.

Bytes used on device #0 = 0

Volume serial number for device #1 is c497-71b7

No files found.

Bytes used on device #1 = 0

Total capacity = 1086271488 bytes

Total bytes used = 0 bytes in 0 files

Total bytes free = 1086271488 bytes

>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.28

RD Instruments (c) 1996-2005

All Rights Reserved.

>CR1

[Parameters set to FACTORY defaults]

>CF11101

>EA0

>EB0

>ED1110

>ES34

>EX11111

>EZ1111111

>WA50

>WB1

>WD111100000

>WF176

>WN30

>WP65

>WS400

>WV175

>TE00:15:00.00

>TP00:13.84

>TF07/05/12 12:00:00

>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 AS04H

>CS

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm7 SERIAL #: 5160 PST, UTC OTHER: _____
 TAPE SIZE: DSU PROJECT: Victoria Sill. I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	897		
2. Temperature	13.961		
3. Conductivity	395		
4. Extemp/pressure	53		
5. Direction	512		
6. Speed	0		
Date: <u>May 17/07</u> Time: <u>0600 UTC</u>			

OK Pins

Rotor Counter Information:

Rev/Count: _____
 F.S.= _____ Cm/S
 Rotor Switch: _____
 Rotor Type: 5

? check on recovery.
 2x Avg

Sampling Interval: 30 MIN Depth: 110m. TAPE ID: 5160-A504-H
 Pressure Sensore Range: 200 PSI Serial #: 50967-7
 Depth Max: 130 MAX Compass Serial #: 7691
 Conductivity Range: 24-44 MMHO Cell Serial #: 5217
 HI Res Temperature Range: _____

Channel #	Reading1	Reading 2
1. Reference	897	
2. Temperature	915	
3. Conductivity	395	
4. Extemp/pressure	59	
5. Direction	60	
6. Speed	18	
Date: <u>Sept 18/07</u> Time: <u>1700 UTC</u>		

OK Pins

NO CAL IN Pins

TIME IN WATER: 0840 ^{PDT} DATE: May 20, 2007
 BAT VOLTAGE: 9.72 ON DEPLOYMENT
 CRUISE ID: 2007-35 DEPLOYED
 TECHNICIAN: CP

TIME OUT WATER: 1623 ^{PDT} DATE: Sept 17/2007
 BAT VOLTAGE: 8.66 ON RECOVERY
 CRUISE ID: 2007-62 RECOVERED
 TECHNICIAN: CP

NOTES: _____

