

DEPLOYMENT RECORD

Project Name: Victoria Sill Start Date: Oct. 2006 End Date: May 2007
 Mooring Name: AS04-G Station Name: AS04

Geog. Desc.: Constance Bank Tide: Victoria +1.9
 Latitude: 48°18.011' Longitude: 123°22.563'
 Water Depth: 115 datum Ice Thickness:
 Magnetic decl: Time Zone: PDT Anchor Type: 2 wheels 1800lbs
 Date: Oct. 16, 2006 Time Anchor Dropped: 1037 PDT Date:
 Remarks: - using a single release vs the planned paired RT161's

RECOVERY RECORD

Date: May 13, 2007 Time Anchor Released: 1738 PDT
 Remarks: - recovered without incident

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in	Time Out	Notes
WH300	2940	108m	1035	PDT	
S4	1846	110.5m			
Vemco	#6529	on ADCP frame			
Vemco	#6531	on acoustic release			

Argos 20921

Release	Serial	R Code	A Code	F Code	On/Off	B0	B1	Aux Codes
RT161	847	8215	8212	8211				
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
Helle	1/4x27	1442	n/a					

FLOTATION

Type	Serial #	Size	Colour
ADCP	Frame + 8 vinyl balls		orange
SS37	M246		

Type	Serial #	Size	Colour

Data Entry by:

ADCP Deployment Sheet

Instrument:

Serial Number: 2940 → UVIC

Pressure Sensor: _____

Model: WH300

Depth Rating: _____

Batteries: EXTERNAL TDS BATTERY PACK

Parameters: - upward looking
EQUIVALENT TO ONE RDI BATTERY PACK
internal battery pack installed without compass swing *

Number of Pings (WP): 42

Bin Size (WS): 4m

Ensemble Interval (TE): 15 min

Number of Bins (WN): 30

Time between Pings (TP): 2 s

Mode 1 Bandwidth (WB): 1 NARROW BAND

Profiling Mode (WM): 1

Pre-deployment tests: YES

Time Zone: UTC

Compass Calibration: NO

Start (TF): 16 OCTOBER 2006, 1715 UTC

Deployment:

Station: AS04-G

Cruise Number: 2006-33

Latitude: 48° 18.011' N

Water Depth: 117m 115m datum

Longitude: 123 22.563' W

Instrument Depth: 110m 108m

Time and Date in Water: 1737, 16 OCTOBER 2006 UTC

Comments:

PlanADCP (Basic) : [Dpl2]

BackToSC Settings View Help

ADVANCED settings changed

Cell Size 4.00m

First Cell 6.07m

Max Range 154.29m

Last Cell 122.07m

Proposed Setup:

Deployment Duration: 240 days

Ensemble Interval: 00:20:00

Salinity: 32 ppt

Temperature: 5 °C

Water Pings: 50

Number of Depth Cells: 30

Depth Cell Size: 4 m

Deployment Consequences:

First Cell Range: 6.07 m

Last Cell Range: 122.07 m

Max Range: 154.29 m

Standard Deviation: 0.89 cm/s

Ensemble Size: 748 bytes

Storage Required: 12.33 MB

Power Usage: 416.79 Wh

Battery Pack Usage: 0.9

Notes

AS04-G
2272
Start: Oct 10, 2006 @ 1200PST
CR1
CF11101
EA0
EB0

Workhorse Sentinel: 300 kHz/ Long Range/ 1 Battery Pack/ Memory: 110 MB

NUM

Congratulations!

You have successfully configured the ADCP for deployment.

OK Cancel

>>>>>> Function starting 10/06/06 08:05:35 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.20
RD Instruments (c) 1996-2001
All Rights Reserved.
>TS061006080537
>CZ

Powering Down

>>>>> Function starting 10/06/06 08:05:43 >>>>>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.20

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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 = 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 = 06/10/06,08:05:45 --- 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 = 711 ----- 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 = 06/10/06,08:05:49 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 2272

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,c2,c1,offset) 0.00,0.00,0.14,14.18

Temp Sens Offset: -0.30 degrees C

CPU Firmware: 16.20 [0]

Boot Code Ver: Required: 1.13 Actual: 1.13

DEMOD #1 Ver: ad48, Type: 1f

DEMOD #2 Ver: ad48, Type: 1f

PWRTIMG Ver: 85d3, Type: 4

Board Serial Number Data:

00 00 00 03 01 90 98 09 CPU727-2000-00H

25 00 00 02 C9 02 58 09 DSP727-2001-04F

67 00 00 03 01 8B 39 09 REC727-1000-04A

EC 00 00 03 01 60 95 09 PIO727-3000-04C

>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
Receive Loop-Back.....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 ...

Heading	Pitch	Roll	Up/Down	Attitude Temp	Ambient Temp	
PRESSURE						
30.34ø	0.66ø	-0.76ø	Up	24.28øC	21.31øC	-
1.7 kPa						
30.18ø	0.65ø	-0.79ø	Up	24.29øC	21.31øC	
0.5 kPa						
30.27ø	0.65ø	-0.78ø	Up	24.27øC	21.33øC	
0.8 kPa						
30.19ø	0.65ø	-0.78ø	Up	24.29øC	21.31øC	-
2.1 kPa						
30.18ø	0.65ø	-0.78ø	Up	24.29øC	21.32øC	
1.2 kPa						
28.80ø	0.43ø	-1.56ø	Up	24.28øC	21.29øC	-
0.9 kPa						
32.09ø	8.68ø	-1.73ø	Up	24.31øC	21.32øC	-
0.3 kPa						
33.33ø	25.85ø	0.71ø	Up	24.31øC	21.29øC	-
5.8 kPa						
47.17ø	30.10ø	3.30ø	Up	24.27øC	21.32øC	-
2.5 kPa						
29.14ø	11.97ø	-0.53ø	Up	24.28øC	21.31øC	-
0.4 kPa						
0.84ø	2.14ø	-0.32ø	Up	24.30øC	21.30øC	-
1.7 kPa						
327.63ø	-0.01ø	0.21ø	Up	24.27øC	21.33øC	-
2.8 kPa						
327.47ø	0.57ø	-1.01ø	Up	24.29øC	21.32øC	-
6.3 kPa						

```

>RS
RS = 000,107 ----- REC SPACE USED (MB), FREE (MB)

```

>PC1

BEAM CONTINUITY TEST

When prompted to do so, vigorously rub the selected

39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41
39 41 42 41

Rub Beam 1 = PASS

Rub Beam 2 = PASS

Rub Beam 3 = PASS

Rub Beam 4 = PASS

>CZ

Powering Down

>>>>> Function starting 10/06/06 08:07:02 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.20
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>AZ

Pressure Offset Updated in NVRAM.

>CZ

Powering Down

>>>>> Function starting 10/06/06 08:08:23 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.20
RD Instruments (c) 1996-2001
All Rights Reserved.
>RR
Recorder Directory:
Volume serial number for device #0 is 065b-10ef

No files found.

Bytes used on device #0 = 0
Volume serial number for device #1 is 1b66-1ee1

No files found.

Bytes used on device #1 = 0
Total capacity = 111697920 bytes

Total bytes used = 0 bytes in 0 files
Total bytes free = 111697920 bytes

```
>
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.20
RD Instruments (c) 1996-2001
All Rights Reserved.
>CR1
[Parameters set to FACTORY defaults]
>CF11101
>EA0
>EB0
>ED1250
>ES32
>EX11111
>EZ1111111
>WA50
>WB1
>WD111100000
>WF176
>WN30
>WP50
>WS400
>WV175
>TE00:20:00.00
>TP00:24.00
>TF06/10/10 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 2272_
>CS
```

1846-FLOWTEST
10/5/2006

AS04-G

Swing Test

Test looked good, couldn't get a picture because of the way XP is.

Zero flow came out to +.3 and -.18 . Just add 1 to X and you're golden. Cheers Lucius

```
C:\WINDOWS\System32\cmd.exe
Set up Filename: 1846AS04

[F1] Header : 1846-AS04-G-PST
[F2] Period : ON: 0 days 0 hrs 1 min
True Averaging: Enabled CYCLE: 0 days 0 hrs 15 min
[F3] Average count : 120
[F4] Channels at average : 4 5 6
[F5] SRR count : 96
[F6] Channels at SRR : 1
[F7] Write mode : Internal
[F8] Log mode : North & East
[F9] Start time : 10/10/06 12:00
[F10] Initialize Memory: YES

[R]etrieve Setup from disk [S]ave Setup [H]ardcopy of Setup
[F]ind S4(R) [Q]uit logging [Esc] to Main Menu
<ENTER> Start logging according to setup above

Printer Port: Lpt1 Type: Epson Comm Port: COM1 Baud: 19200
```

```
C:\WINDOWS\System32\cmd.exe
Memory and Battery Life Estimates
for
Specified Memory size = 256k & S4 Logging Current = 41 mA

Estimated Samples to fill memory: 28,746
Estimated time to fill memory: 10.0 months
Estimated Battery Life for Lithion type cells: 13.5 months

Press <Enter> key to edit memory size, battery type, & system current.
Press [Esc] key to return to Setup Menu.
```

```
C:\WINDOWS\System32\cmd.exe
Set up S4
S4 Firmware Version: 2.329
S/N:08291846 1846-AS04-G-PST
ON:00 00 01 CYCLE:00 00 15
AUE CNT:0120 CHAN:4 5 6
SRB CNT:96 FMT:3D CHAN:1
XSNS:0254 YSENS:0255
XOFF:1749 YOFF:1765
BTYPE:L DATE:10 05 06 #SAMP:00 #BYTES:00
BAUD:019200
W:1

S4 Date and Time is: 10/05/06 14:21:43
Programmed Start Date and Time is: 10/10/06 12:00:00
Time remaining prior to starting S4: 117 hrs 39 min

--- Press <Esc> key to ABORT or any other key to Start Logging ---

Printer Port: Lpt1 Type: Epson Comm Port: COM1 Baud: 19200
```

```
C:\WINDOWS\System32\cmd.exe
S4 Application Help

* -- Your S4/S40 Instrument Has Been Programmed to Commence Logging -- *

- ***** Disconnect the S110 cable from the S4/S40 Now! ***** -

----- Please Observe The Following Precautions! -----

To Prevent Accidental Cancellation of the Logging Setup in the S4/S40.

[1] DO NOT - Turn OFF Computer while S4/S40 and S110 are connected

[2] DO NOT - Press RESET button on S110 Interface Unit while S4/S40 is
Still Connected.

[3] DO NOT - Press the [F2] Key from the Main-Menu to enter the Terminal
Mode and then Press the [F4] Key while the S4/S40 is still
connected.

[4] DO NOT - Press the [F3] Key from the Main-Menu to Retrieve Data while
the S4/S40 is Still Connected.

Use Page Up, Page Dn, Home, End, & Arrow keys to browse. - Press [Esc] to Quit
```