

DEPLOYMENT RECORD

Project Name: Victoria Sill Start Date: May 3/06 End Date: mid Oct
 Mooring Name: A504-F Station Name: A504

Geog. Desc.: Constance Bank Tide: _____
 Latitude: 48° 18' 00.8 Longitude: 123° 22' 53.5
 Water Depth: 116.2m datum Ice Thickness: _____
 Magnetic decl: _____ Time Zone: _____ Anchor Type: 2 wheels 1880 lbs.
 Date: May 31, 2006 Time Anchor Dropped: 1421 PDT Date: _____
 Remarks: _____

RECOVERY RECORD

Date: Oct. 16, 2006 Time Anchor Released: 0741 PDT
 Remarks: - recovered without incident
- release #782 could not be reused due to corrosion
of a curcial retaining bott.

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in	Time Out	Notes
<u>RDT 3000</u>	<u>2940</u>				<u>Internal Bat / swing</u> ✓
<u>SH</u>	<u>754</u>				
<u>Vemco</u>	<u>6526</u>				
<u>Vemco</u>	<u>6527</u>				

Enable Disable Manual

Release	Serial	R Code	Am Code	Preq	On/Off	B0	B1	Aux Codes
<u>RT161</u>	<u>#782</u>	<u>CA15</u>	<u>CA11</u>	<u>CA12</u>	<u>ON</u>	<u>9</u>	<u>4</u>	<u>77301</u>
<u>RT161</u>	<u>#847</u>	<u>8215</u>	<u>8211</u>	<u>8212</u>	<u>ON</u>	<u>9</u>	<u>3</u>	
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
<u>Helle</u>	<u>1/4 x 27</u>	<u>1442</u>				<u>18.8</u>		

FLOTATION

Type	Serial #	Size	Colour
<u>8 Vinyl Ball Cluster</u>			<u>Orange</u>
<u>ADCP Frame</u>			
<u>SS37</u>	<u>M246</u>	<u>37"</u>	<u>yellow</u>
<u>Argos</u>	<u>20921</u>		
<u>OML Beacon</u>			

Type	Serial #	Size	Colour

Data Entry by:

PlanADCP (Basic) : [Dpl1]

BackToSC Settings View Help

ADVANCED settings changed

Cell Size 2.00m

First Cell 4.13m

Max Range 137.83m

Last Cell 122.13m

Proposed Setup:

Deployment Duration: 150 days

Ensemble Interval: 00:15:00

Salinity: 32 ppt

Temperature: 7 °C

Water Pings: 60

Number of Depth Cells: 60

Depth Cell Size: 2 m

Deployment Consequences:

First Cell Range: 4.13 m

Last Cell Range: 122.13 m

Max Range: 137.83 m

Standard Deviation: 1.66 cm/s

Ensemble Size: 1348 bytes

Storage Required: 18.51 MB

Power Usage: 367.98 Wh

Battery Pack Usage: 0.8

Notes

WV175
TE00:15:00.00
TP00:15.00
TF06/05/31 14:00:00
CK
CS

Workhorse Sentinel: 300 kHz/ Long Range/ 1 Battery Pack/ Memory: 160 MB

NUM

>>>>> Function starting 05/31/06 13:41:29 >>>>>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.21

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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 = 060 ----- Number of depth cells (1-128)

WP = 00060 ----- Pings per Ensemble (0-16384)

WS = 0200 ----- Depth Cell Size (cm)

WV = 175 ----- Mode 1 Ambiguity Vel (cm/s radial)

BP = 000 ----- Bottom Track Pings per Ensemble

TE = 00:20:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)

TF = **/**/**, **: **: ** --- Time of First Ping (yr/mon/day, hour:min:sec)

TP = 00:20.00 ----- Time per Ping (min:sec.sec/100)

TS = 06/05/31,13:41:31 --- 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 = 32 ----- Salinity (0-40 pp thousand)
EX = 11111 ----- Coord Transform (Xform: Type,Tilts,3 Bm,Map)
Press any key to continue

EZ = 1111111 ----- Sensor Source (C,D,H,P,R,S,T)

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 = 811 ----- 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 = 06/05/31,13:41:37 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 2940
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 TEMPERATURE
Temp Sens Offset: -0.14 degrees C

CPU Firmware: 16.21 [0]

Boot Code Ver: Required: 1.13 Actual: 1.13
DEMOM #1 Ver: ad48, Type: 1f
DEMOM #2 Ver: ad48, Type: 1f
PWRTIMG Ver: 85d3, Type: 4

Board Serial Number Data:

45 00 00 03 01 78 90 09 PIO727-3000-04C
1D 00 00 03 01 84 02 09 DSP727-2001-04F
62 00 00 02 00 46 1A 09 CPU727-2000-00H
27 00 00 03 01 60 B9 09 REC727-1000-04A

>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.....***FAIL***
Narrow Bandwidth.....PASS
RSSI Filter.....PASS
Transmit.....PASS

SENSOR TESTS:

H/W Operation.....***FAIL***

>PC2

Press any key to quit sensor display ...

Heading	Pitch	Roll	Up/Down	Attitude Temp	Ambient Temp
PRESSURE					
97.920	-25.590	-28.190	Up	24.080C	20.030C
0.0 kPa					
97.900	-25.590	-28.190	Up	24.070C	20.020C
0.0 kPa					
97.890	-25.590	-28.190	Up	24.070C	20.010C
0.0 kPa					

>RS

```
RS = 001,161 ----- REC SPACE USED (MB), FREE (MB)
```

BEAM CONTINUITY TEST

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

Powering Down

```
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
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>AZERR: No pressure sensor detected.
```

Powering Down

```
[BREAK Wakeup A]
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>RR
Recorder Directory:
Volume serial number for device #0 is
```

```
AS04F000 000      8271 05-31-06    1:06:02p r  a [ 2]
AS04F001 000      8271 05-31-06    1:37:40p r  a [ 7]
```

Bytes used on device #0 = 16542
Volume serial number for device #1 is 0000-0106

No files found.

Bytes used on device #1 = 0
Total capacity = 169730048 bytes
Total bytes used = 16542 bytes in 2 files
Total bytes free = 169709568 bytes

>

[BREAK Wakeup A]
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>CR1

[Parameters set to FACTORY defaults]

>CF11101

>EA0

>EB0

>ED0

>ES32

>EX11111

>EZ1111111

>WA50

>WB1

>WD111100000

>WF176

>WN60

>WP60

>WS200

>WV175

>TE00:15:00.00

>TP00:15.00

>TF06/05/31 14:00:00

>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 as04f

>CS

```

C:\WINDOWS\System32\cmd.exe
Set up Filename: 754AS04F

[F1] Header : 754-AS04E-PST
[F2] Period : ON: 0 days 0 hrs 1 min
True Averaging: Disabled CYCLE: 0 days 0 hrs 10 min
[F3] Average count : 120
[F4] Channels at average : 4 5 6
[F5] SRB count : 144
[F6] Channels at SRB : 1
[F7] Write mode : Internal
[F8] Log mode : North & East
[F9] Start time : 05/31/06 14:00
[F10] Initialize Memory: YES

[R]etrieve Setup from disk [S]ave Setup [H]ardcopy of Setup
[F]ind S4(A) [Q]uit logging [Esc] to Main Menu

<ENTER> Start logging according to setup above

Printer Port: Lpt1 Type: Epson Comm Port: COM1 Baud: 9600

```

```

C:\WINDOWS\System32\cmd.exe
Memory and Battery Life Estimates
for
Specified Memory size = 256k & S4 Logging Current = 40 mA

Estimated Samples to fill memory: 28,823
Estimated time to fill memory: 6.7 months
Estimated Battery Life for Lithium type cells: 9.2 months

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

```

}D

05300604

}T

132653

}RS

S/N:04410754 754-AS04E-PST

ON:00 00 01 CYCLE:00 00 10

AVE CNT:0120 CHAN:4 5 6

SRB CNT:0144 FMT:3C CHAN:1

XSENS:0254 YSENS:0254
XOFF:1743 YOFF:1764
BTYPE:L DATE:05 31 06 #SAMP:00 #BYTES:00
BAUD:9600
W:I
}

```
C:\WINDOWS\System32\cmd.exe
Set up S4
S4 Firmware Version: 2.399
S/N:04410754 754-AS04E-PST
ON:00 00 01 CYCLE:00 00 10
AUE CNT:0120 CHAN:4 5 6
SRB CNT:0144 FMT:3C CHAN:1
XSENS:0254 YSENS:0254
XOFF:1743 YOFF:1764
BTYPE:L DATE:05 30 06 #SAMP:00 #BYTES:00
BAUD:9600
W:I

S4 Date and Time is: 05/31/06 13:49:47
Programmed Start Date and Time is: 05/31/06 14:00:00
Time remaining prior to starting S4: 0 hrs 11 min

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

Printer Port: Lpt1 Type: Epson Comm Port: COM1 Baud: 9600
```