

Mooring Deployment Record

Project Name: <i>Aquaculture</i>	
Project Area: <i>Calm Channel</i>	
Mooring Name: <i>Calm1-A</i>	Station Name: <i>Calm1</i>
Latitude: <i>50° 19.602'</i>	Longitude: <i>125° 05.776'</i>
Depth: <i>344m datum</i>	Tide: <i>+4m Campbell River</i>
Mag. Declination:	Time Zone: <i>UTC</i>
Date: <i>18 Jun 2012</i>	Time: <i>0310</i>
Remarks: <i>- over shot selected mark during deployment resulting in 10m shallower location. - hook tangled.</i>	

Recovery

Date: <i>28 Jan 2013</i>	Time: <i>0711 PDT</i>
Remarks:	

Instruments

Type	Serial #	Depth	Time In:	Time Out	Notes
300kHz	8943	30.0 m			
150kHz	7592	334m			

Releases

Release	Serial #	Range:	Release	<i>Diag.</i> Freq	Other
<i>AR861</i>	<i>735</i>	<i>16B5</i>	<i>1655</i>	<i>1649</i>	

Pingers

Pinger	Serial #	Voltage	Freq
<i>Helle</i>	<i>7825</i>	<i>18.7 v100</i>	<i>27 kHz</i>
<i>Helle</i>	<i>9764</i>	<i>21.7 v100</i>	<i>27 kHz</i>

Flotation

Type	Serial #	Size	Colour	Type	Serial #	Size	Colour
<i>8 Viny Frame</i>			<i>Orange</i>				
<i>Flotec</i>	<i>1545</i>	<i>45"</i>	<i>Orange</i>				

ADCP Deployment Sheet

INSTRUMENT

Serial Number: 8943

Pressure Sensor: _____

Model: 300 kHz

Depth Rating: _____

Batteries: 5x 60

PARAMETERS

Number of Pings (WP): 150

Bin Size (WS): 4

Ensemble Interval (TE): 30 mins

Number of Bins (WN): 12

Time between Pings (TP): 12.00

Mode 1 Bandwidth (WB): 0

Profiling Mode (WM): _____

Pre-deployment tests: ☒

Time Zone: UTC

Compass Calibration: _____

Start (TF): June 17, 2012 @ 2300

DEPLOYMENT

Station: Calmi-A

Cruise Number: 2012-31

Latitude: _____

Water Depth: _____

Longitude: _____

Instrument Depth: _____

Time and Date in Water: _____

Comments: _____

Completed by: _____

Date: _____

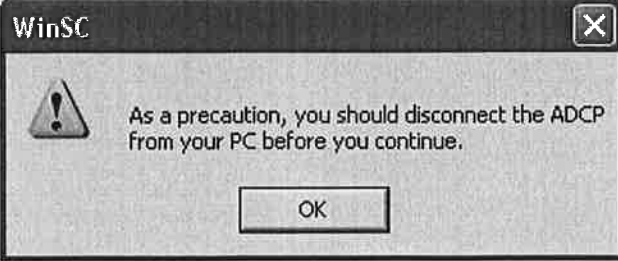
ADCP-dep.xls SFM

PlanADCP (Advanced): Workhorse Sentinel 300 kHz [Dpl1]

BackToSC Settings View Help

Basic		Expert	
Environmental Setup:		Profiling Setup:	
Transducer Depth:	50 m	Pings Per Ensemble:	150
Salinity:	32 ppt	Number of Depth Cells:	12
Magnetic Variation:	0 °	Depth Cell Size:	4 m
Temperature:	5 °C	Mode:	1 ▼
Deployment Timing Setup:		Deployment Consequences:	
Duration:	365 days	First Cell Range:	5.96 m
Ensemble Interval:	00:30:00.00	Last Cell Range:	49.96 m
Ping Int. (✓ Auto):	00:00:12.00	Max Range:	114.52 m
☐ Ping Immediately After Deployment		Standard Deviation:	0.25 cm/s
First Ping Date and Time:		Ensemble Size:	388 bytes
17-Jun-2012 ▼ 11:00:00 PM ▼		Storage Required:	6.80 MB
		Power Usage:	1003.32 Wh
		Battery Pack Usage:	2.2
Notes			
8943-Calm1-A Three packs, all plastic cases Start: June 17 @ 2300UTC			

CR1
 CF11101
 EA0
 EB0
 ED500
 ES32
 EX11111
 EZ1111111
 WB0
 WD111100000
 WF176
 WN12
 WP150
 WS400
 WV170
 TE00:30:00.00
 TP00:12.00
 TF12/06/17 23:00:00
 CK
 CS



ADCP Deployment Sheet

INSTRUMENT

Serial Number: 7592

Pressure Sensor: ✓

Model: 150kHz

Depth Rating: _____

Batteries: 2x 60S1

PARAMETERS

Number of Pings (WP): 55

Bin Size (WS): 4m

Ensemble Interval (TE): 30mins

Number of Bins (WN): 62

Time between Pings (TP): 32.72

Mode 1 Bandwidth (WB): 1

Profiling Mode (WM): _____

Pre-deployment tests: ✓

Time Zone: UTC

Compass Calibration: X

Start (TF): June 17, 2012 @ 2000 UTC

DEPLOYMENT

Station: Calm1-A

Cruise Number: 2012-31

Latitude: _____

Water Depth: _____

Longitude: _____

Instrument Depth: _____

Time and Date in Water: _____

Comments:

Programmed on a very old computer. 4p

Completed by: _____

Date: _____

ADCP-dep.xls SFM

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

Basic Advanced Expert

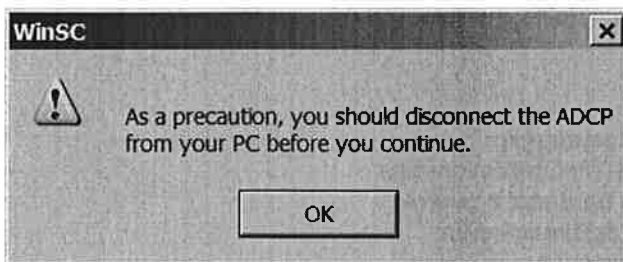
Environmental Setup: Transducer Depth: 250 m Salinity: 32 ppt Magnetic Variation: 0 Temperature: 5 °C	Profiling Setup: Pings Per Ensemble: 55 Number of Depth Cells: 62 Depth Cell Size: 4 m	Deployment Consequences: First Cell Range: 8.30 m Last Cell Range: 252.30 m Max Range: 292.82 m Standard Deviation: 1.87 cm/s Ensemble Size: 1394 bytes Storage Required: 23.29 MB Power Usage: 694.27 Wh Battery Pack Usage: 1.5
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Deployment Timing Setup:
 Duration: 365 days
 Ensemble Interval: 00:30:00.00
 Ping Int(☒ Auto): 00:00:32.72

☐ Ping Immediately After Deployment
 First Ping Date and Time:
 17-Jun-2012 20:00:00

Notes
 7592-Calm1-A
 Start June 17, 2012 @ 2000utc
 CR1
 CF111101

Workhorse Sentinel: 150 kHz/ Long Range/ 2 Battery Packs/ Memory: 256 MB



>>>>>> Function starting 06/17/12 19:53:07 >>>>>>

[BREAK Wakeup A]
 WorkHorse Broadband ADCP Version 16.28
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 >TS120617195310
 >CZ

Powering Down

>>>>> Function starting 06/17/12 19:53:15 >>>>>

[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 = 0352 ----- Blank After Transmit (cm)

WN = 029 ----- Number of depth cells (1-128)

WP = 00080 ----- Pings per Ensemble (0-16384)

WS = 0500 ----- Depth Cell Size (cm)

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

TE = 00:30:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)

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

TP = 00:22.50 ----- Time per Ping (min:sec.sec/100)

TS = 12/06/17,19:53:17 --- Time Set (yr/mon/day,hour:min:sec)

EA = +00000 ----- Heading Alignment (1/100 deg)

EB = +00000 ----- Heading Bias (1/100 deg)

ED = 01400 ----- Transducer Depth (0 - 65535 dm)

ES = 32 ----- Salinity (0-40 pp thousand)

EX = 11111 ----- Coord Transform (Xform: Type,Tilts,3 Bm,Map)

EZ = 1111111 ----- 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 = 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 = 12/06/17,19:53:22 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 7592

Frequency: 153600 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 = -1.490503E-144

c2 = -5.656558E-08

c1 = +5.733202E-01

Offset = +4.817363E+01

Temp Sens Offset: -0.19 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:

43 00 00 03 B4 CB B8 09 TUN727-1005-05A

D2 00 00 00 8D 85 C4 09 REC727-1004-05A

DB 00 00 00 7E A7 BA 09 CPU727-2000-00J

D2 00 00 00 D8 57 46 09 DSP727-2001-05G

13 00 00 00 7E 9B 2E 09 HPI727-3007-00A

CC 00 00 00 7E 9C F3 09 HPA727-3009-02A

>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

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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.....***FAIL*** <-note: iT WAS SIDEWAYS
>PC2

```

Press any key to quit sensor display ...

All Sensors are Internal Only.

Heading	Pitch	Roll	Up/Down	Attitude Temp	Ambient Temp	PRESSURE
293.16	-23.32	20.97	Up	21.11°C	20.07°C	-22.7 kPa
293.09	-23.32	20.97	Up	21.11°C	20.09°C	-21.4 kPa
292.90	-23.32	20.97	Up	21.11°C	20.08°C	-2.2 kPa
292.88	-23.32	20.97	Up	21.11°C	20.11°C	7.5 kPa
292.90	-23.32	20.97	Up	21.11°C	20.11°C	5.1 kPa
292.73	-23.32	20.97	Up	21.11°C	20.08°C	3.8 kPa
292.55	-23.32	20.97	Up	21.11°C	20.09°C	14.1 kPa >RS

RS = 000,076 ----- 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...

```

35 37 31 34
35 37 32 34
35 37 31 34
35 37 31 34
35 37 31 34
35 37 31 34
35 37 31 33
35 37 31 33
35 37 31 33
35 37 31 33

```

[illegible]

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

>CZ

Powering Down

>>>>> Function starting 06/17/12 19:54:47 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
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>AZ
Pressure Offset Updated in NVRAM.

>CZ

Powering Down

>>>>> Function starting 06/17/12 19:54:54 >>>>>

Ci+(*T-□Wakeup A]
WorkHorse Broadband ADCP Version 16.28
RD Instruments (c) 1996-2005
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>RE ErAsE erasing...
Recorder erased.

>CZ

Powering Down

>>>>> Function starting 06/17/12 19:56:00 >>>>>

Ci+(*T-□Wakeup A]
WorkHorse Broadband ADCP Version 16.28
RD Instruments (c) 1996-2005
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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
Volume serial number for device #1 is 065b-10ef

No files found.

Bytes used on device #1 = 0
Total capacity = 79654912 bytes
Total bytes used = 0 bytes in 0 files
Total bytes free = 79654912 bytes

>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.28

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>CR1

[Parameters set to FACTORY defaults]

>CF11101

>EA0

>EB0

>ED2500

>ES32

>EX11111

>EZ1111111

>WA50

>WB1

>WD111100000

>WF352

>WN62

>WP55

>WS400

>WV175

>TE00:30:00.00

>TP00:32.72

>TF12/06/17 20:00:00

>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 7592_

>cs