

1820

DEPLOYMENT RECORD

Project Name: Aquaculture Start Date: May 5/08 End Date: Oct/05
 Mooring Name: KIW-01 Station Name: KIW

Geog. Desc.: Knight Inlet West Tide: +3 Alert Bay
 Latitude: 50° 39.384' Longitude: 126° 09.869'
 Water Depth: 179m datum Ice Thickness:
 Magnetic decl: Time Zone: PDT Anchor Type: 3wheels 2450 lbs
 Date: May 5, 2005 Time Anchor Dropped: 1008 PDT Date:
 Remarks:

RECOVERY RECORD

Date: Oct. 7 2005 Time Anchor Released: 1042 PDT
 Remarks: - tangles on surface - otherwise no problems

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in	Time Out	Notes
WH600	1820	39m	0951	0956	
Rcm4	2524				- rotor broken on recovery
	4075	59	"		
Rcm4	4075				- rotor broken on recovery
	2524	94	"		
Rcm4	4075				
	4955	129	"		
Rcm4	4955				
	6014	164m	"		

Argos 2928

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes
1090	199	ABCD	CDFF	8kHz				
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
Helle	1/4x27	9764	Helle	1/4x27	8822	20.9	19.9	

FLOTATION

Type	Serial #	Size	Colour
SS30	3004	30"	yellow
ADCP	Float		
	8 Vinyl		orange
SS30	3013	30"	yellow
SS30	3008	30"	"
SS28	M488	28"	"

Type	Serial #	Size	Colour

Data Entry by:

RdiPlan (v01.22.000) Dpl4

Options

300 kHz Workhorse Monitor/Sentinel

Choices	Power	Consequences
Number of Bins [1 - 128]: 108	☐ High	1.62 m First Bin Range
Bin Size (m) [0.20 - 16.00]: 0.50	☐ Low	55.62 m Last Bin Range
Pings Per Ensemble [1098]: 150	Mode	113.76 m Max Range
Interval (h:m:s) [00:01:23]: 00:10:00	☐ BB	462.3 Wh Battery Usage
Deployment Duration (days): 60.00	☒ LR	Temperature: + 5.0 (Deg C)
Transducer Depth (m): 40.0		4.6 cm/s Standard Deviation
Salinity: (ppt) 30		8640-2292 Byte Ensembles
Magnetic Variation (deg): + 0.0		19.80 MB Storage Required

First Ping

☒ Immediately After Deployment

Time and Date:

Data

☒ Record Internally (ADCP)

☐ Send Data Out Serial Port

Defaults Undo

Notes

KIW01 (Knight Inlet)
WHS600-I, sn 1820
ADCP at ~40m depth

39m.

Enter the number of bins. The range with the current choices is 1 to 128

OK Cancel Apply Help

This is the plan file supplied by Dario.

Note that this is set for a 300 KHz WH, I will remake plan for a 600 KHz workhorse.

RdiPlan (v01.22.000) Dpl5

Options

600 kHz Workhorse Monitor/Sentinel

Choices		Power	Consequences	
Number of Bins [1 - 128]	108	☐ High	1.50 m	First Bin Range
Bin Size (m) [0.10 - 8.00]	0.50	☐ Low	55.50 m	Last Bin Range
Pings Per Ensemble [1098]	150	Mode	52.03 m	Max Range
Interval (h:m:s) [00:01:23]	00:10:00		444.6 Wh	Battery Usage
Deployment Duration (days):	60.00	☐ BB	Temperature:	+ 5.0 (Deg C)
Transducer Depth (m):	40.0	☒ LR	3.3 cm/s	Standard Deviation
Salinity: (ppt)	30		8640-2292	Byte Ensembles
Magnetic Variation (deg):	+ 0.0		19.80 MB	Storage Required

First Ping

☒ Immediately After Deployment

Time and Date: 18:10:00 2005-05-

Data

☒ Record Internally (ADCP)

☐ Send Data Out Serial Port

Defaults Undo

Notes

KIW01 (Knight Inlet)
WHS600-I, sn 1820
ADCP at ~40m depth

Enter the number of bins. The range with the current choices is 1 to 128

OK Cancel Apply Help

This is the new plan file. Note the changes in consequences.

>>>>>> Function starting 05/04/05 17:21:43 >>>>>>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.21

RD Instruments (c) 1996-2002

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 = 0088 ----- Blank After Transmit (cm)

WN = 009 ----- Number of depth cells (1-128)

WP = 00050 ----- Pings per Ensemble (0-16384)

WS = 0050 ----- Depth Cell Size (cm)

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.....***FAIL***
 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
 171.09ø 17.76ø 5.32ø Up 21.41øC 20.47øC 0.4 kPa
 >RS ERR 010: UNRECOGNIZED COMMAND
 >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...
 39 25 37 41

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

>CZ

Powering Down

>>>>>> Function starting 05/04/05 17:27:32 >>>>>>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.21

RD Instruments (c) 1996-2002

All Rights Reserved.

>CR1

[Parameters set to FACTORY defaults]

>CF11101

>EA00000

>EB00000

>ED00400

>ES30

>EX11111

>EZ1111111

>TE00:10:00.00

>TP00:04.00

>WB1

>WD111100000

>WF0088

>WN108

>WP00150

>WS0050

>WV170

>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 Kiw01

>cs

Lucius and Rob heard it beep.

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

TE = 00:01:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)

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

TP = 00:01.19 ----- Time per Ping (min:sec.sec/100)

TS = 05/05/05,01:22:20 --- 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 = 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

RF ----- Recorder Space used/free (bytes)

RY ----- Upload Recorder Files to Host

>TS?

TS = 05/05/05,01:22:56 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 1820

Frequency: 614400 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 = +4.545794E-15

c2 = +4.917100E-08

c1 = +6.820154E-02

Offset = -5.442796E+00

Temp Sens Offset: -0.28 degrees C

CPU Firmware: 16.21 [0]

Boot Code Ver: Required: 1.13 Actual: 1.13

DEMOMOD #1 Ver: ad48, Type: 1f

DEMOMOD #2 Ver: ad48, Type: 1f

PWRTIMG Ver: 85d3, Type: 4

Board Serial Number Data:

A0 00 00 02 00 2C 18 09 CPU727-2000-00H

67 00 00 02 48 79 91 09 REC727-1000-03A

A2 00 00 02 00 26 F1 09 PIO727-3000-03C

4B 00 00 02 F8 E4 7B 09 DSP727-2001-03F

>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

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 4075 PST UTC, OTHER: _____
 TAPE SIZE: 3/4" PROJECT: _____ I(mA) _____

Channel #	Reading 1	Reading 2	Last Cal.
1. Reference	391		
2. Temperature	9.56		
3. Conductivity	260		
4. External pressure	49		
5. Direction	218		
6. Speed	0		
Date <u>May 4 2005</u> Time <u>20:00 PST</u>			

Rotor Counter Information:

Rev/Count: 4
 F.S. = 95 Cm/S
 Rotor Switch: 4
 Rotor Type: S

Sampling Interval: 30 MIN
 Pressure Sensor Range: 200 PSI
 Depth Max: 138 MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: _____

Depth: 59 m
 Serial #: 51889-4
 Compass Serial #: 5843
 Cell Serial #: 4276

TAPE ID: 4075/17

Channel #	Reading 1	Reading 2
1. Reference	391	
2. Temperature	7.39	
3. Conductivity	258	
4. External pressure	51	
5. Direction	34	
6. Speed	0	
Date <u>Oct 7/05</u> Time <u>10:24 PST</u>		

TIME IN WATER: 0953 PDT DATE: May 5, 2005
 BAT VOLTAGE: 9.91V ON DEPLOYMENT
 CRUISE ID: 2005-03 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1042 PDT DATE: Oct 7/05
 BAT VOLTAGE: 8.96 ON RECOVERY
 CRUISE ID: 2005-27 RECOVERED
 TECHNICIAN: LP

NOTES: charge motor before next deployment.
Rotor missing on recovery. LP.

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 2524 (PST) UTC, OTHER: _____
 TAPE SIZE: 3/4" PROJECT: _____ I(mA) _____

Channel #	Reading 1	Reading 2	Last Cal
1. Reference	892		
2. Temperature	949		
3. Conductivity	257		
4. Extemp/pressure	51		
5. Direction	137		
6. Speed	11		
Date <u>May 4 2005</u> Time <u>20.00</u>	<u>PST</u>		

Rotor Counter Information:

Rev/Count: 4
 F.S.= 95 Cm/S
 Rotor Switch: 4
 Rotor Type: S

Sampling Interval: 30 MIN
 Pressure Sensore Range: 200 PSI
 Depth Max: 138 MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: _____

Depth: 94m TAPE ID: 2524/10
 Serial #: 52783-1
 Compass Serial #: 3570
 Cell Serial #: 4462

4402 IN PIMS

Channel #	Reading 1	Reading 2
1. Reference	892	
2. Temperature	700	
3. Conductivity	257	
4. Extemp/pressure	53	
5. Direction	2	
6. Speed	0	
Date <u>Oct 7/05</u> Time <u>1033</u>	<u>PST</u>	

TIME IN WATER: 0954 PDT
 DATE: May 5 2005
 BAT VOLTAGE: 9.88 ON DEPLOYMENT
 CRUISE ID: 2005-08 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1042 PDT
 DATE: Oct 7/05
 BAT VOLTAGE: 8.88 ON RECOVERY
 CRUISE ID: 2005-23 RECOVERED
 TECHNICIAN: LP

NOTES: changed Rotor type to "S" before
deployment.
Rotor missing on recovery. DOH! LP

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rem4 SERIAL #: 4955 PST UTC, OTHER: _____
 TAPE SIZE: 3 1/4 PROJECT: _____ I(mA) _____

Channel #	Reading 1	Reading 2	Last Cal
1 Reference	45		
2 Temperature	961		
3 Conductivity	256		
4 Extemp/pressure	46		
5 Direction	138		
6 Speed	19		
Date <u>Mar 9 2005</u> Time <u>20:00</u>	<u>PST</u>		

Rotor Counter Information:

Rev/Count: 4
 F.S.= 95 Cm/S
 Rotor Switch: 4
 Rotor Type: S

Sampling Interval: 30 MIN
 Pressure Sensor Range: 0-500 PSI
 Depth Max: 368 MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: —

Depth: 129 m
 Serial #: 50468-15
 Compass Serial #: 19596
 Cell Serial #: 4838

Tape # please.

TAPE ID: 4955/25

Channel #	Reading 1	Reading 2
1 Reference	45	
2 Temperature	706	
3 Conductivity	254	
4 Extemp/pressure	48	
5 Direction	3	
6 Speed	4	
Date <u>Oct 7/05</u> Time <u>1100</u>	<u>PST</u>	

TIME IN WATER: 0955 PDT DATE: May 5, 2005
 BAT VOLTAGE: 9.86V ON DEPLOYMENT
 CRUISE ID: 2005-08 DEPLOYED
 TECHNICIAN: _____

TIME OUT WATER: 1042 PDT DATE: Oct 7/05
 BAT VOLTAGE: 8.80 ON RECOVERY
 CRUISE ID: 2005-23 RECOVERED
 TECHNICIAN: CP

NOTES: _____

NO
CAL IN PIMS

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 6014 PST/UTC, OTHER: _____
 TAPE SIZE: 3 1/4 PROJECT: 2005-08 I(mA) _____

Channel #	Reading 1	Reading 2	Last Cal
1. Reference	1020		
2. Temperature	974		
3. Conductivity	251		
4. Ext temp/pressure	1023		
5. Direction	106		
6. Speed	16		
Date <u>May 4 2005</u> Time <u>20:00</u>			

Rotor Counter Information:

Rev/Count: 841
 F.S.= 95 Cm/S
 Rotor Switch: 4
 Rotor Type: 5

Sampling Interval: 30 MIN
 Pressure Sensor Range: — PSI
 Depth Max: 2000 MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: 4-12

Depth: 164m
 Serial #: —
 Compass Serial #: 2679
 Cell Serial #: 5847

TAPE ID: 6014/10

Channel #	Reading 1	Reading 2
1. Reference	1020	1020?
2. Temperature	699	
3. Conductivity	536	
4. Ext temp/pressure	7?	
5. Direction	?	
6. Speed	1	
Date <u>Oct 7/05</u> Time <u>1059</u>		<u>1129</u>

} Both Readings were unreadable on computer.

TIME IN WATER: 0930 PDT DATE: May 5 2005
 BAT VOLTAGE: 9.89 ON DEPLOYMENT
 CRUISE ID: 2005-08 DEPLOYED
 TECHNICIAN: _____

TIME OUT WATER: 1042 PDT DATE: Oct 7/05
 BAT VOLTAGE: _____ ON RECOVERY
 CRUISE ID: 2005-23 RECOVERED
 TECHNICIAN: HP

NOTES: Data looks crappy after about 1150^{gnc} SP pulses.