

DEPLOYMENT RECORD

Project Name: Aquaculture Start Date: Mar. 2008 End Date: Sep. 2008
 Mooring Name: KIW-06-mid Station Name: KIW

Geog. Desc.: Knight Inlet mid-Channel Tide: Port Harvey +2m
 Latitude: 50°39.426' Longitude: 126°06.415'
 Water Depth: 176m datum Ice Thickness: —
 Magnetic decl: — Time Zone: — Anchor Type: 2640 4 wheel
 Date: — Time Anchor Dropped: 1953 PDT Date: Mar. 25, 2008
 Remarks:

RECOVERY RECORD

Date: Sep. 12, 2008 Time Anchor Released: 1220 PDT
 Remarks: - without incident except mooring top heavily corroded
- bearing on #4240 too tight

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth m	Time in	Time Out	Notes
<u>600kHz</u>	<u>1820</u>	<u>4036</u>			
<u>RCM4</u>	<u>8488</u>	<u>6056</u>			
<u>RCM4</u>	<u>7990</u>	<u>9591</u>			
<u>RCM4</u>	<u>4240</u>	<u>130126</u>			
<u>RCM4</u>	<u>6506</u>	<u>165161</u>			

WB. 7359

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes
AR861	733	1655	16B3					
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
Helle	1/4x27	7816	Helle	1/4x27	9022	16.5/18.7		

FLOTATION

Type	Serial #	Size	Colour
<u>WB</u>	<u>7359</u>	<u>17"</u>	<u>Yellow</u>
<u>SS30</u>	<u>3007</u>	<u>30"</u>	<u>Yellow</u>
<u>+ Vinyl</u>	<u>ADCP</u>	<u>Frame</u>	<u>orange</u>
<u>SS30</u>	<u>3001</u>	<u>30"</u>	<u>Yellow</u>
<u>SS28</u>	<u>M500</u>	<u>28"</u>	<u>"</u>
<u>"</u>	<u>M901</u>	<u>"</u>	<u>"</u>
<u>"</u>	<u>208</u>	<u>"</u>	<u>"</u>

Type	Serial #	Size	Colour

Data Entry by:

RDI 75/150/300/600kHz Long Ranger/Workhorse Deployment

Project: KIW06-MID

Aquaculture

Serial Number: 1820 - 600 kHz

Cruise: 2008-~~18~~07

Platform: Vector

Station: KIW06-Mid

Deployment Date: March 25, 2008

Position: _____

Depth on Sounder: at 36m depth datum in 176m datum.

Recovery Date: Sep. 13, 2008

Parameters

Ensemble Interval	
Bin Size	
Number of Pings	
Number of Bins	
Observations	
Ambiguity Velocity	
Water Profiling Mode	
Time	
Start Time	
Power	

PlanADCP (Advanced) : [KIMID]

BackToSC Settings View Help

Basic Advanced Expert

Environmental Setup:

Transducer Depth: 40 m

Salinity: 31 ppt

Magnetic Variation: 0 °

Temperature: 7 °C

Profiling Setup:

Pings Per Ensemble: 150

Number of Depth Cells: 110

Depth Cell Size: 0.5 m

Mode: 1

Deployment Consequences

First Cell Range: 1.59 m

Last Cell Range: 56.09 m

Max Range: 54.29 m

Standard Deviation: 2.33 cm/s

Ensemble Size: 2354 bytes

Storage Required: 58.19 MB

Power Usage: 1275.33 Wh

Battery Pack Usage: 2.8

Deployment Timing Setup:

Duration: 180 days

Ensemble Interval: 00:10:00.00

Ping Int(☒ Auto): 00:00:04.00

Min TP

☐ Ping Immediately After Deployment

First Ping Date and Time:

25-Mar-2008 20:00:00

Notes

KIW06-Mid,
S/N 1820 600kHz
2008-07
Removed 16MB card to place in instrument 3566. There is now only 128Mb

Workhorse Sentinel: 600 kHz/ Long Range/ 3 Battery Packs/ Memory: 144 MB

CR1
CF11101
EA0
EB0
ED400
ES31
EX11111
EZ1111111
WA50
WB1
WD111100000
WF88
WN110
WP150
WS50
WV175
TE00:10:00.00
TP00:04.00
TF08/03/25 20:00:00
CK
CS



>>>>> Function starting 03/25/08 19:11:53 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
RD Instruments (c) 1996-2005
All Rights Reserved.
>TS080325191156
>CZ

Powering Down

>>>>> Function starting 03/25/08 19:12:01 >>>>>

[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 = 0088 ----- Blank After Transmit (cm)
WN = 105 ----- Number of depth cells (1-128)
WP = 00110 ----- Pings per Ensemble (0-16384)
WS = 0050 ----- Depth Cell Size (cm)
WV = 175 ----- Mode 1 Ambiguity Vel (cm/s radial)

TE = 00:10:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)
TF = **/**/**, **: **: ** --- Time of First Ping (yr/mon/day, hour:min:sec)
TP = 00:05.45 ----- Time per Ping (min:sec.sec/100)
TS = 08/03/25, 19:12:03 --- 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 = 30 ----- 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 = 08/03/25,19:12:07 --- 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 = -7.483665E+00

Temp Sens Offset: -0.09 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: 5

Board Serial Number Data:

A0 00 00 02 00 2C 18 09 CPU727-2000-00H
11 00 00 00 86 BB A2 09 DSP727-2001-03G
67 00 00 02 48 79 91 09 REC727-1000-03A
A2 00 00 02 00 26 F1 09 PIO727-3000-03C

>PA

PRE-DEPLOYMENT TESTS

CPU TESTS:

RTC.....PASS
RAM.....PASS
ROM.....PASS

RECORDER TESTS:

PC Card #0.....NOT DETECTED
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***

>PC2

Press any key to quit sensor display ...

All Sensors are Internal Only.

Heading	Pitch	Roll	Up/Down	Attitude Temp	Ambient Temp	PRESSURE
62.42ø	13.93ø	-20.11ø	Up	20.31øC	20.07øC	0.1 kPa
62.60ø	14.39ø	-20.11ø	Up	20.30øC	20.07øC	0.3 kPa >RS

RS = 000,123 ----- 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...

41 45 38 44

[illegible]

40 44 38 44
40 44 38 44
40 44 38 44
40 44 38 44
40 44 38 44
40 44 38 44
40 44 38 44
40 44 38 44

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

>CZ

Powering Down

>>>>> Function starting 03/25/08 19:13:14 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
RD Instruments (c) 1996-2005
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>AZ

Pressure Offset Updated in NVRAM.

>CZ

Powering Down

>>>>> Function starting 03/25/08 19:13:21 >>>>>

[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 03/25/08 19:13:29 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.28
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>RR

Recorder Directory:

Volume serial number for device #1 is 1633-17f2

No files found.

Bytes used on device #1 = 0
Total capacity = 128034816 bytes
Total bytes used = 0 bytes in 0 files
Total bytes free = 128034816 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

>ED400

>ES31

>EX11111

>EZ1111111

>WA50

>WB1

>WD111100000

>WF88

>WN110

>WP150

>WS50

>WV175

>TE00:10:00.00

>TP00:04.00

>TF08/03/25 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 KIMID

>cs

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 8488 PST, UTC, OTHER: UTC
 TAPE SIZE: 2" PROJECT: Aquaculture I(mA)

Channel #	Reading1	Reading 2	Last Cal
1. Reference	714		
2. Temperature	968		
3. Conductivity	252		
4. Extemp/pressure	67		
5. Direction	471		
6. Speed	21		
Date: <u>March 25/08</u> Time: <u>2030UTC</u>			

Rotor Counter Information:

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

Sampling Interval: 30 MIN Depth: 56 TAPE ID: 8488/9
 Pressure Sensor Range: 200 PSI Serial #: 52783-8
 Depth Max: 138 MAX Compass Serial #: 13958
 Conductivity Range: 24-44 MMHO Cell Serial #: _____
 HI Res Temperature Range: _____

Channel #	Reading1	Reading 2
1. Reference	+15	
2. Temperature	972	
3. Conductivity	250	
4. Extemp/pressure	69	
5. Direction	514	
6. Speed	24	
Date: <u>Sept 13/08</u> Time: <u>1801</u>		

TIME IN WATER: _____ DATE: Mar. 25, 2008
 BAT VOLTAGE: 9.93 ON DEPLOYMENT
 CRUISE ID: 2008-07 DEPLOYED
 TECHNICIAN: CP

TIME OUT WATER: 1220 PDT DATE: Sept 12/08
 BAT VOLTAGE: 8.96 ON RECOVERY
 CRUISE ID: 2008-50 RECOVERED
 TECHNICIAN: CP

NOTES:

-heavy biofouling

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 SERIAL #: 7990 PST, UTC, OTHER:
 TAPE SIZE: 3/1 PROJECT: Aquaculture I(mA)

Channel #	Reading1	Reading 2	Last Cal
1. Reference	828		
2. Temperature	90.4		
3. Conductivity	25.5		
4. Extemp/pressure	56		
5. Direction	623		
6. Speed	4		
Date: <u>March 25/08</u> Time: <u>2030 UTC</u>			

Rotor Counter Information:

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

Sampling Interval: <u>30</u> MIN	Depth: <u>91</u>	TAPE ID: <u>7990/99</u>
Pressure Sensor Range: <u>500</u> PSI	Serial #: <u>52781-4</u>	
Depth Max: <u>36%</u> MAX	Compass Serial #: <u>12928</u>	
Conductivity Range: <u>24-44</u> MMHO	Cell Serial #: <u>500 5046</u>	
HI Res Temperature Range: <u> </u>		

Channel #	Reading1	Reading 2
1. Reference	828	
2. Temperature	96.3	
3. Conductivity	0	
4. Extemp/pressure	56	
5. Direction	322	
6. Speed	4	
Date: <u>Sept 13/08</u> Time: <u>1802</u>		

TIME IN WATER: DATE: Mar. 25, 2008
 BAT VOLTAGE: 9.93 ON DEPLOYMENT
 CRUISE ID: 2008-08 DEPLOYED
 TECHNICIAN: LP + JLO

TIME OUT WATER: 1220 PDT DATE: Sept 12/08
 BAT VOLTAGE: ON RECOVERY
 CRUISE ID: 2008-50 RECOVERED
 TECHNICIAN: CP

NOTES:

- heavy bio fouling

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 4240 PST, UTC, OTHER: (circled)
 TAPE SIZE: 3" PROJECT: Aquaculture I(mA)

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>464</u>		
2. Temperature	<u>904</u>		
3. Conductivity	<u>261</u>		
4. Extemp/pressure	<u>54</u>		
5. Direction	<u>445</u>		
6. Speed	<u>6</u>		
Date: <u>March 25/08</u> Time: <u>2030 UTC</u>			

Rotor Counter Information:

Rev/Count: 4
 F.S.= 91 Cm/S
 Rotor Switch: 4
 Rotor Type: 5

Sampling Interval: <u>30</u> MIN	Depth: <u>126</u>	TAPE ID: <u>4240/12</u>
Pressure Sensor Range: <u>500</u> PSI	Serial #: <u>52075-10</u>	
Depth Max: <u>368</u> MAX	Compass Serial #: <u>6328</u>	
Conductivity Range: <u>24-44</u> MMHO	Cell Serial #: <u>2493</u>	
HI Res Temperature Range: <u> </u>		

Channel #	Reading1	Reading 2
1. Reference	<u>464</u>	
2. Temperature	<u>977</u>	
3. Conductivity	<u>260</u>	
4. Extemp/pressure	<u>54</u>	
5. Direction	<u>923</u>	
6. Speed	<u>0</u>	
Date: <u>Sept 13/08</u> Time: <u>1829 UTC</u>		

TIME IN WATER: DATE: Mar. 25, 2008
 BAT VOLTAGE: 9.86 ON DEPLOYMENT
 CRUISE ID: 2008-07 DEPLOYED
 TECHNICIAN: LP J20

TIME OUT WATER: 1220 PDT DATE: Sept 12/08
 BAT VOLTAGE: 8.88 ON RECOVERY
 CRUISE ID: 2008-50 RECOVERED
 TECHNICIAN: CP

NOTES: over tight rotor and lots of fouling

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4
TAPE SIZE: 3

SERIAL #: 6506
PROJECT: Aquaculture

PST, UTC, OTHER: (C)
I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	?	779	
2. Temperature	?	942	
3. Conductivity	255	255	
4. Extemp/pressure	1023	1023	
5. Direction	474	471	
6. Speed	11	10	
Date: <u>March 25/08</u> Time: <u>2000 UTC</u>		<u>2030 UTC</u>	

Rotor Counter Information:

Rev/Count: 4
F.S.= _____ 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: 161 TAPE ID: 6506/31
Serial #: _____
Compass Serial #: 10327
Cell Serial #: 7313

Channel #	Reading1	Reading 2
1. Reference	779	
2. Temperature	983	
3. Conductivity	254	
4. Extemp/pressure	1023	
5. Direction	141	
6. Speed	9	
Date: <u>Sept 13/08</u> Time: <u>1829 UTC</u>		

TIME IN WATER: _____ DATE: Mar. 25, 2008
BAT VOLTAGE: 9.73 ON DEPLOYMENT
CRUISE ID: 2008-107 DEPLOYED
TECHNICIAN: LP / JLO

TIME OUT WATER: 1220 PDT DATE: Sept 12/08
BAT VOLTAGE: 8.98 ON RECOVERY
CRUISE ID: 2008-50 RECOVERED
TECHNICIAN: CP

NOTES:

- bio fouled