

DEPLOYMENT RECORD

Project Name: Aquaculture Start Date: Apr. 2007 End Date: Sep. 2007
 Mooring Name: KIW4 Station Name: KIW

Geog. Desc.: Knight Inlet West Tide: +1.7 m.
 Latitude: 50° 39.382' Longitude: 126° 09.868'
 Water Depth: 180.3 m. Ice Thickness:
 Magnetic decl: Time Zone: PDT Anchor Type:
 Date: Mar. 27, 2007 Time Anchor Dropped: 1854 PDT Date:
 Remarks:

RECOVERY RECORD

Date: Sep. 12 Time Anchor Released: 1608 PDT
 Remarks: - without incident

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in	Time Out	Notes
RDC 300 kHz	3566	38 m	1830 PDT		
Rcm4	8488	58 m	1832 PDT		
Rcm4	3501	93 m	1836 PDT		
Rcm4	6582	128 m	1838 PDT		
Rcm4	8305	163 m	1839 PDT		

WB #2928

Enable Disable

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes
RT161	782	CA15	CA11	CA12	* deployed disabled manual switch on.			
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
Helle	1/4 x 27	9022	Helle	1/4 x 27	9022	19.1	19.3	

FLOTATION

↑ same pinger ? ↑

Type	Serial #	Size	Colour
WB	2928	17"	yellow
SS30	550	30"	"
"	3012	"	"
SS28	207	28"	"
"	M487	"	"
"	M488	"	"

Type	Serial #	Size	Colour

Data Entry by:

IOS OCEAN PHYSICS

OK Pimp

8305 recorded on deck sheets

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 SERIAL #: 8305 PST, UTC, OTHER:
TAPE SIZE: 3 1/4 PROJECT: Aquaculture I(mA)

Channel #	Reading1	Reading 2	Last Cal
1. Reference	924		
2. Temperature	854		
3. Conductivity	258		
4. Extemp/pressure	623		
5. Direction	239		
6. Speed	4		
Date: <u>March 27/07</u> Time: <u>19 30 PST</u>			

Rotor Counter Information:

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

8305 / 4

Sampling Interval: 30 MIN Depth: 163m TAPE ID: 8305 / 1099
Pressure Sensor Range: PSI Serial #:
Depth Max: 2000 MAX Compass Serial #: 13572
Conductivity Range: 24-44 MMHO Cell Serial #: 418
HI Res Temperature Range: 70 or 6

Channel #	Reading1	Reading 2
1. Reference	925	
2. Temperature	878	
3. Conductivity	263	
4. Extemp/pressure	1023	
5. Direction	638	
6. Speed	9	
Date: <u>Sept 13/07</u> Time: <u>0200 UTC</u>		

OKC

TIME IN WATER: 1839 PDT DATE: Mar. 27, 2007 TIME OUT WATER: 1608 PDT DATE: Sept 12/07
BAT VOLTAGE: 9.72 ON DEPLOYMENT BAT VOLTAGE: 8.88 ON RECOVERY
CRUISE ID: 20711 DEPLOYED CRUISE ID: 2007 RECOVERED
TECHNICIAN: CP TECHNICIAN: LP

NOTES:

IOS OCEAN PHYSICS

OKP

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 SERIAL #: 6592 PST UTC, OTHER: _____
TAPE SIZE: 3kg PROJECT: Aquaculture I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>756</u>		
2. Temperature	<u>848</u>		
3. Conductivity	<u>258</u>		
4. Extemp/pressure	<u>1023</u>		
5. Direction	<u>891</u>		
6. Speed	<u>6</u>		
Date: <u>March 27/07</u> Time: <u>1330 PST</u>			

Rotor Counter Information:

Rev/Count: 4
F.S.= _____ Cm/S
Rotor Switch: 9
Rotor Type: S

Sampling Interval: 30 MIN Depth: 128m TAPE ID: 6582/12
Pressure Sensore Range: _____ PSI Serial #: _____
Depth Max: 2.00 MAX Compass Serial #: 6696
Conductivity Range: 24-44 MMHO Cell Serial #: _____
HI Res Temperature Range: 4-12

Channel #	Reading1	Reading 2
1. Reference	<u>116</u>	
2. Temperature	<u>884</u>	
3. Conductivity	<u>265</u>	
4. Extemp/pressure	<u>1023</u>	
5. Direction	<u>673</u>	
6. Speed	<u>7</u>	
Date: <u>Sept 13/07</u> Time: <u>0328 UTC</u>		

OKP

TIME IN WATER: 1838 PDT DATE: Mar. 27 2007
BAT VOLTAGE: 9.72 ON DEPLOYMENT
CRUISE ID: 2007-11 DEPLOYED
TECHNICIAN: LP

TIME OUT WATER: 1608 PDT DATE: Sept 12/07
BAT VOLTAGE: 8.91V ON RECOVERY
CRUISE ID: 2007- RECOVERED
TECHNICIAN: LP

NOTES: Noisy tape! LP

IOS OCEAN PHYSICS

OK Pinner

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm 4 SERIAL #: 3501 PST, UTC, OTHER: _____
TAPE SIZE: 3K411 PROJECT: Aquaculture I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	546		
2. Temperature	819		
3. Conductivity	251		
4. Extemp/pressure	46		
5. Direction	232		
6. Speed	19		
Date: <u>March 27/07</u> Time: <u>1930PST</u>			

Rotor Counter Information:

Rev/Count: 9
F.S.= _____ Cm/S
Rotor Switch: 9
Rotor Type: 5

Sampling Interval: <u>30</u> MIN	Depth: <u>93m</u>	TAPE ID: <u>3501/20</u>
Pressure Sensore Range: <u>500</u> PSI	Serial #: <u>50566-8</u>	
Depth Max: <u>368</u> MAX	Compass Serial #: <u>03364</u>	
Conductivity Range: <u>24-44</u> MMHO	Cell Serial #: <u>27.25</u>	
HI Res Temperature Range: _____		

Channel #	Reading1	Reading 2
1. Reference	548	?
2. Temperature	435	?
3. Conductivity	?	257
4. Extemp/pressure	?	47
5. Direction	?	208
6. Speed	?	1
Date: <u>20070913</u> Time: <u>0202UTC</u>	<u>0202UTC</u>	<u>0232UTC</u>

OK P

TIME IN WATER: 1836 ^{PDT} DATE: Mar. 27 2007
BAT VOLTAGE: 9.70 ON DEPLOYMENT
CRUISE ID: 2007-11 DEPLOYED
TECHNICIAN: CP

TIME OUT WATER: 1608 ^{PDT} DATE: Sept 12/07
BAT VOLTAGE: 8.80 ON RECOVERY
CRUISE ID: 2007- RECOVERED
TECHNICIAN: CP

NOTES: Noisy tape CP.

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4
TAPE SIZE: 3/4"

SERIAL #: 8498
PROJECT: Aquaculture

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

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>715</u>		
2. Temperature	<u>826</u>		
3. Conductivity	<u>252</u>		
4. Extemp/pressure	<u>68</u>		
5. Direction	<u>229</u>		
6. Speed	<u>6</u>		
Date: <u>March 27/07</u> Time: <u>13:30</u>			

PST

OK Pins

Rotor Counter Information:

Rev/Count: 4
F.S.= _____ Cm/S
Rotor Switch: _____
Rotor Type: S7

Sampling Interval: 30 MIN
Pressure Sensore Range: 200 PSI
Depth Max: 168 MAX
Conductivity Range: 24-44 MMHO
HI Res Temperature Range: _____

Depth: 58m TAPE ID: 8498/7
Serial #: 52783-8
Compass Serial #: 13958
Cell Serial #: _____
↑ Look in PINS

Channel #	Reading1	Reading 2
1. Reference	<u>715</u>	
2. Temperature	<u>0962</u>	
3. Conductivity	<u>260</u>	
4. Extemp/pressure	<u>68</u>	
5. Direction	<u>637</u>	
6. Speed	<u>6</u>	
Date: <u>Sept 12/07</u> Time: <u>0200 UTC</u>		

OK P

TIME IN WATER: 1832 PDT
DATE: Mar. 27, 2007
BAT VOLTAGE: 9.72 ON DEPLOYMENT
CRUISE ID: 2007-01 DEPLOYED
TECHNICIAN: CP

TIME OUT WATER: 1608 PDT
DATE: Sept 12/2007
BAT VOLTAGE: 8.87 ON RECOVERY
CRUISE ID: 2007- RECOVERED
TECHNICIAN: LP

NOTES:

PlanADCP (Basic) : [KIW04]

BackToSC Settings View Help

Call Size 0.50m First Cell 2.71m Last Cell 51.71m Max Range 86.11m

Advanced

Proposed Setup:

Deployment Duration: 174 days

Ensemble Interval: 00:10:00

Salinity: 30 ppt

Temperature: 8 °C

Water Pings: 155

Number of Depth Cells: 99

Depth Cell Size: 0.5 m

Deployment Consequences:

First Cell Range: 2.71 m

Last Cell Range: 51.71 m

Max Range: 86.11 m

Standard Deviation: 2.26 cm/s

Ensemble Size: 2128 bytes

Storage Required: 50.85 MB

Power Usage: 1332.35 Wh

Battery Pack Usage: 3.0

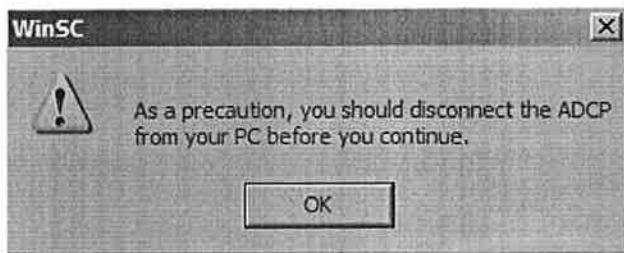
Notes:

KIW04: 300kHz S/N:3566
VECTOR cruise 2007-11

Workhorse Sentinel: 300 kHz/ High Res./ 3 Battery Packs/ Memory: 84 MB

NUM

CR1
CF11101
EA0
EB0
ED0
ES30
EX11111
EZ1111111
WA50
WB0
WD111100000
WF176
WN99
WP155
WS50
WV175
TE00:10:00.00
TP00:03.87
CK
CS



>>>>> Function starting 03/27/07 15:28:48 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
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>AX

RDI Compass Error Estimating Algorithm

Press any key to start taking data after the instrument is setup.

[BREAK Wakeup A]
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>CZ

Powering Down

>>>>> Function starting 03/27/07 15:29:28 >>>>>

[BREAK Wakeup A]
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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 = 027 ----- Number of depth cells (1-128)

WP = 00053 ----- Pings per Ensemble (0-16384)

WS = 0400 ----- Depth Cell Size (cm)

WV = 170 ----- Mode 1 Ambiguity Vel (cm/s radial)

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

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 = 00:33.96 ----- Time per Ping (min:sec.sec/100)
TS = 07/03/27,23:29:33 --- 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)

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 = 411 ----- 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 = 07/03/27,23:29:42 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 3566
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 = +1.043313E-13
c2 = +7.611596E-09
c1 = +5.725423E-02
Offset = -1.957219E+00

Temp Sens Offset: -0.35 degrees C

CPU Firmware: 16.21 [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:

EC 00 00 02 FB 76 39 09 DSP727-2001-04G
DC 00 00 02 FB 9A 15 09 REC727-1000-04A
37 00 00 02 FB 9F 6D 09 PIO727-3000-04C
DA 00 00 02 FB A7 17 09 CPU727-2000-00H

>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.....PASS

>PC2

Press any key to quit sensor display ...

Heading	Pitch	Roll	Up/Down	Attitude Temp	Ambient Temp	
PRESSURE						
60.920	-1.330	-0.110	Up	17.190C	16.450C	-
4.1 kPa						
61.090	-1.290	-0.080	Up	17.200C	16.470C	-
1.9 kPa						
60.880	-1.350	0.110	Up	17.200C	16.460C	-
1.9 kPa						
61.310	-1.380	0.030	Up	17.200C	16.470C	-
1.5 kPa						
58.920	-1.170	-0.180	Up	17.150C	16.470C	-
0.1 kPa						
31.900	-2.110	0.230	Up	17.120C	16.450C	-
1.7 kPa						
28.970	-1.090	0.470	Up	17.100C	16.450C	-
2.3 kPa						
24.270	-1.150	0.170	Up	17.110C	16.460C	-
3.8 kPa						
15.080	-1.880	1.190	Up	17.210C	16.450C	-
4.2 kPa						
18.540	-6.650	0.620	Up	17.170C	16.430C	-
2.8 kPa						
17.550	-14.550	0.610	Up	17.120C	16.450C	-
3.8 kPa						
20.190	-22.500	-1.920	Up	17.110C	16.440C	-
2.4 kPa						
29.670	-17.360	-17.450	Up	17.110C	16.470C	-
2.8 kPa						
36.510	-15.510	-24.790	Up	17.120C	16.440C	-
0.8 kPa						
25.500	-2.400	-28.130	Up	17.120C	16.470C	-
3.6 kPa						
12.990	11.450	-15.440	Up	17.200C	16.430C	-
5.5 kPa						
20.200	1.290	0.540	Up	17.110C	16.450C	-
1.7 kPa						
19.140	-0.740	-0.260	Up	17.130C	16.450C	-
3.1 kPa						
20.090	-1.100	0.200	Up	17.130C	16.450C	-
3.7 kPa						
20.960	-1.460	0.410	Up	17.130C	16.470C	-
2.0 kPa						
20.090	-1.290	0.290	Up	17.110C	16.450C	-
2.8 kPa						
20.500	-1.270	0.100	Up	17.100C	16.520C	-
2.8 kPa						
21.070	-1.180	0.060	Up	17.120C	16.590C	-
1.9 kPa						
20.580	-1.230	-0.090	Up	17.120C	16.650C	-
2.9 kPa						
21.480	-1.250	-0.180	Up	17.140C	16.740C	-
2.5 kPa						
21.210	-1.180	-0.210	Up	17.130C	16.810C	-

[illegible]

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

>CZ

Powering Down

```
>>>>> Function starting 03/27/07 15:31:07 >>>>>
```

```
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
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>RE ErAsE erasing...
Recorder erased.
```

>CZ

Powering Down

>>>>> Function starting 03/27/07 15:32:01 >>>>>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.21

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>RR

Recorder Directory:

Volume serial number for device #0 is 0000-010e

No files found.

Bytes used on device #0 = 0

Volume serial number for device #1 is 1809-0b21

No files found.

Bytes used on device #1 = 0

Total capacity = 84797440 bytes

Total bytes used = 0 bytes in 0 files

Total bytes free = 84797440 bytes

>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.21

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>CR1

[Parameters set to FACTORY defaults]

>CF11101

>EA0

>EB0

>ED0

>ES30

>EX111111

>EZ11111111

>WA50

>WB0

>WD1111100000

>WF176

>WN99

>WP155

>WS50

>WV175

>TE00:10:00.00

>TP00:03.87

>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 KIW04

>CS