

DEPLOYMENT RECORD

Project Name: Agaculture Start Date: Oct. 2005 End Date: May 2006
 Mooring Name: PKW Station Name: KIW-02

Geog. Desc.: Knight Inlet West Tide: _____
 Latitude: 50° 39.383 Longitude: 126° 09.841
 Water Depth: 182 m Ice Thickness: _____
 Magnetic decl: _____ Time Zone: PDT Anchor Type: 3 wheds. 2350 lbs
 Date: Oct. 7 2005 Time Anchor Dropped: 1833 PDT Date: _____
 Remarks: _____

RECOVERY RECORD

Date: June 6 2006 Time Anchor Released: 1315 PDT
 Remarks: _____

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in	Time Out	Notes
WH600	1820	40 m	1820 PDT		
Rcm4	8820	60 m	1821 PDT		
Rcm4	5758	95 m	1823 "		
Rcm4	7908	130 m	1825 "		
Rcm4	5391	165 m	1827 "		

Argos 2928

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes
1090	405	BDFG	CDFG	8KHz	—			
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
Helle	1/4x27	6945	Helle	1/4x27	652	16.0	17.7	

FLOTATION

V100 V100

Type	Serial #	Size	Colour
³⁰ SS28	M819	³⁰ 28"	yellow
SS30	3007	"	"
SS30	3013	"	"
SS28	M500	28	"
SS28	M487	"	"

Type	Serial #	Size	Colour

Data Entry by:

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4
TAPE SIZE: 3 1/4

SERIAL #: 5758
PROJECT: _____

PST, UTC, OTHER: UTC
I(mA) 19

Channel #	Reading 1	Reading 2	Last Cal
1 Reference	642		
2 Temperature	973		
3 Conductivity	250		
4 Extemp/pressure	1023		
5 Direction	583		
6 Speed	1		
Date <u>Oct 7 2005</u> Time <u>0300</u>			

Rotor Counter Information:

Rev/Count: 8
F.S.= 95 Cm/S
Rotor Switch: 5
Rotor Type: 5

Sampling Interval: 60 MIN
Pressure Sensor Range: _____ PSI
Depth Max: _____ MAX
Conductivity Range: 94-44 MMHO
HI Res Temperature Range: 4-12

Depth: 95m TAPE ID: 5758-3
Serial #: _____
Compass Serial #: 12391
Cell Serial #: 5096

Channel #	Reading 1	Reading 2
1 Reference		
2 Temperature		1023
3 Conductivity		?
4 Extemp/pressure		1023
5 Direction		1023 ?
6 Speed		?
Date <u>Oct 7/06</u> Time <u>0003</u>		0103

Both readings
came out with
a lot of noise.

TIME IN WATER: 1823 PDT DATE: Oct. 7 2005
BAT VOLTAGE: 9.81 ON DEPLOYMENT
CRUISE ID: 2005-23 DEPLOYED
TECHNICIAN: RL

TIME OUT WATER: _____ DATE: 06/06/06
BAT VOLTAGE: 9.02 ON RECOVERY
CRUISE ID: 2006-10 RECOVERED
TECHNICIAN: LP

NOTES: Data got FUBAR @ around 600 records

This instrument has been serviced Nov 15 2007
Found bad encoder cap and mis alignment
of brushes. SL

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 8820 PST, UTC, OTHER: UTC
 TAPE SIZE: 3 1/4" PROJECT: _____ I(mA) 21 mA

Channel #	Reading 1	Reading 2	Last Cal
1 Reference	561		
2 Temperature	97.1		
3 Conductivity	253		
4 Extemp/pressure	53		
5 Direction	126		
6 Speed	3		
Date <u>Oct 7/05</u> Time <u>0200 UTC</u>			

Rotor Counter Information:

Rev/Count: 8
 F.S. = 5-95 Cm/S
 Rotor Switch: 5
 Rotor Type: PW

Sampling Interval: 60 MIN
 Pressure Sensor Range: 200 PSI
 Depth Max: 133 MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: _____

Depth: 60m TAPE ID: 8820/9
 Serial #: 50967-5
 Compass Serial #: 15667
 Cell Serial #: 1645

Channel #	Reading 1	Reading 2
1 Reference	560	
2 Temperature	85.0	
3 Conductivity	6	
4 Extemp/pressure	37	
5 Direction	274	
6 Speed	1	
Date _____ Time <u>1131 UTC</u>		

0098th 0221 UTC

OK Print

TIME IN WATER: 1521 PPT DATE: Oct 7 2005
 BAT VOLTAGE: 9.79 ON DEPLOYMENT
 CRUISE ID: 2005-23 DEPLOYED
 TECHNICIAN: CP

TIME OUT WATER: _____ DATE: June 6/06
 BAT VOLTAGE: 6.89 ON RECOVERY
 CRUISE ID: 2006-10 RECOVERED
 TECHNICIAN: CP

NOTES: 4x Lithium Pack - Rotor not spinning freely CP

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 7908 PST, UTC, OTHER: UTC
 TAPE SIZE: 3 1/4 PROJECT: 2005-23 I(mA) 20

Channel #	Reading 1	Reading 2	Last Cal
1 Reference	827		
2 Temperature	959		
3 Conductivity	255		
4 Extemp/pressure	63		
5 Direction	690		
6 Speed	0		
Date: <u>Oct 7 2005</u> Time: <u>200</u>			

Rotor Counter Information:

Rev/Count: 8
 F.S.= 95 Cm/S
 Rotor Switch: 5
 Rotor Type: 3

Sampling Interval: 60 MIN
 Pressure Sensor Range: 0-1000 PSI
 Depth Max: MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range:

Depth: 130 m TAPE ID: 7901/21
 Serial #: 50514-26
 Compass Serial #: 13669
 Cell Serial #: 3059 → 8059

Channel #	Reading 1	Reading 2
1 Reference	768	
2 Temperature	1008	
3 Conductivity	8	
4 Extemp/pressure	8	
5 Direction	512	
6 Speed	2	
Date: <u>June 10/06</u> Time: <u>0358</u>		

TIME IN WATER: 1825 PDT DATE: Oct. 7, 2005
 BAT VOLTAGE: 9.82 ON DEPLOYMENT
 CRUISE ID: 2005-23 DEPLOYED
 TECHNICIAN:

TIME OUT WATER: DATE: 06/06/06
 BAT VOLTAGE: 8.98 ON RECOVERY
 CRUISE ID: 2006-10 RECOVERED
 TECHNICIAN: LP

NOTES: Def pressure in PMS Note cell #

Same as written in sheet here LP

Note ref #. is changing
827 on dep and 768 on recovery

* NOTE
 * Wrong ref #
 on recovery formal bit 32 was not being set (Schm Love)



* NOTE

← $768 + 32 = 800$

OK PMS

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 5391 PST, UTC, OTHER: UTC
 TAPE SIZE: 3 1/4" PROJECT: 2005-23 I(mA) 20

Channel #	Reading 1	Reading 2	Last Cal
1 Reference	<u>422</u>		
2 Temperature	<u>957</u>		
3 Conductivity	<u>216</u>		
4 Extemp/pressure	<u>1023</u>		
5 Direction	<u>673</u>		
6 Speed	<u>0</u>		
Date <u>Oct 7 2005</u> Time <u>0200</u>			



Rotor Counter Information:

Rev/Count: 8
 F.S.= 95 Cm/S
 Rotor Switch: 5
 Rotor Type: 5

Sampling Interval: 60 MIN
 Pressure Sensor Range: PSI
 Depth Max: MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: 4-12

Depth: 165m. TAPE ID: 5391/31
 Serial #:
 Compass Serial #: 12105
 Cell Serial #: 5376 or 5378 5376

OK PMS

Channel #	Reading 1	Reading 2
1 Reference	<u>422</u>	
2 Temperature	<u>993</u>	
3 Conductivity	<u>262</u>	
4 Extemp/pressure	<u>1023</u>	
5 Direction	<u>770</u>	
6 Speed	<u>8</u>	
Date <u>06/06/06</u> Time <u>1209UTC</u>		

TIME IN WATER: 1827PDT DATE: Oct. 7, 2005
 BAT VOLTAGE: 9.87 ON DEPLOYMENT
 CRUISE ID: 2005-23 DEPLOYED
 TECHNICIAN: RK

TIME OUT WATER: DATE: 06/06/06
 BAT VOLTAGE: 9.09 ON RECOVERY
 CRUISE ID: 2006-10 RECOVERED
 TECHNICIAN: LP

NOTES: 0

Send Break @ 1734 UTC June 6/06

PlanADCP (Basic) : [KIW02]

BackToSC Settings View Help

ADVANCED settings changed.

Cell Size 0.50m

First Cell 1.58m

Max Range 55.41m

Last Cell 51.08m

Proposed Setup:

Deployment Duration: 240 days

Ensemble Interval: 00:15:00

Salinity: 30 ppt

Temperature: 8 °C

Water Pings: 120

Number of Depth Cells: 100

Depth Cell Size: 0.5 m

Deployment Consequences:

First Cell Range: 1.58 m

Last Cell Range: 51.08 m

Max Range: 55.41 m

Standard Deviation: 2.48 cm/s

Ensemble Size: 2148 bytes

Storage Required: 47.20 MB

Power Usage: 861.24 Wh

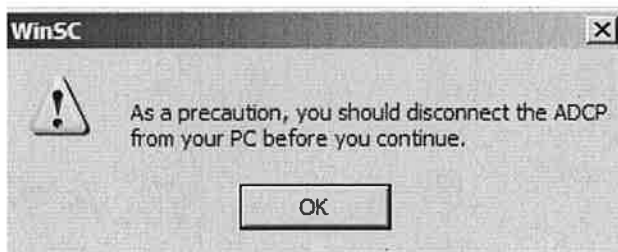
Battery Pack Usage: 1.9

Notes:

KIW02 (Knight Inlet)
WHS600-I, sn 1820
ADCP at ~40m depth
Low resolution mode

Workhorse Sentinel: 600 kHz/ Long Range/ 2 Battery Packs/ Memory: 144 MB

NUM



CR1
CF11101
EA0
EB0
ED400
ES30
EX11111
EZ1111111
WB1
WD111100000
WF88
WN100
WP120
WS50

WV175
TE00:15:00.00
TP00:07.50
WA50
CK
CS

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>TS051007225853
>CZ

Powering Down

>>>>>> Function starting 10/07/05 22:59:49 >>>>>>

[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 = 108 ----- Number of depth cells (1-128)
WP = 00150 ----- Pings per Ensemble (0-16384)
WS = 0050 ----- Depth Cell Size (cm)
WV = 170 ----- 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 = 00:04.00 ----- Time per Ping (min:sec.sec/100)
TS = 05/10/07,22:59:51 --- Time Set (yr/mon/day,hour:min:sec)

EA = +00000 ----- Heading Alignment (1/100 deg)
EB = +00000 ----- Heading Bias (1/100 deg)
ED = 00400 ----- 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)

CF = 01100 ----- 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 = 05/10/07,22:59:54 --- 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
DEM0D #1 Ver: ad48, Type: 1f
DEM0D #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
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
245.35ø -23.70ø 21.13ø Up 17.77øC 16.32øC -1.2 kPa
>RS
RS = 050,088 ----- 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...
17 42 37 42

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

>CZ

Powering Down

>>>>>> Function starting 10/07/05 23:02:06 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>AZ
Pressure Offset Updated in NVRAM.

>CZ

Powering Down

>>>>>> Function starting 10/07/05 23:02:34 >>>>>>

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

>CZ

Powering Down

>>>>>> Function starting 10/07/05 23:02:58 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>RR
Recorder Directory:
Volume serial number for device #0 is 1633-17f2

No files found.

Bytes used on device #0 = 0
Volume serial number for device #1 is 1356-16e0

No files found.

Bytes used on device #1 = 0
Total capacity = 144041984 bytes
Total bytes used = 0 bytes in 0 files
Total bytes free = 144041984 bytes

>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002

All Rights Reserved.

>CR1

[Parameters set to FACTORY defaults]

>CF11101

>EA0

>EB0

>ED400

>ES30

>EX11111

>EZ1111111

>WB1

>WD111100000

>WF88

>WN100

>WP120

>WS50

>WV175

>TE00:15:00.00

>TP00:07.50

>WA50

>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 KIW02

>cs