

DEPLOYMENT RECORD

Project Name: Aquaculture Start Date: Apr. 2007 End Date: Sep. 2007
 Mooring Name: SUT02 Station Name: SUTCHAN.

Geog. Desc.: Sutlej Channel Tide: + 1.3 m. Alert.
 Latitude: 50°52.752' Longitude: 126°44.671'
 Water Depth: 207.7m datum Ice Thickness:
 Magnetic decl: Time Zone: PDT Anchor Type: 3 wheels 2320 lbs
 Date: Mar. 28, 2007 Time Anchor Dropped: 1948 PDT Date:
 Remarks:

RECOVERY RECORD

Date: Sep. 13, 2007 Time Anchor Released: 1743
 Remarks: - recovered without incident

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in	Time Out	Notes
RDI 300	2275	43	1926 PDT.		300KHZ RDI external pack 4 Vinyl Floats.
Rcm4	1500	53	1927 PDT.		
Rcm4	4240	103	1929 PDT.		
Rcm4	638	153	1930 PDT.		
Rcm4	2754	203	1931 PDT.		

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes
AR191	20U	B542	B541					
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
Helle	1/4 x 27	7816	Helle	1/4 x 27	6393	18.1	19.3	

FLOTATION

Type	Serial #	Size	Colour
WB	3735	17"	yellow
SS30	3016	30"	"
SS28	M901	28"	"
SS28	M232	28"	"
SS28	M501	28"	"

Type	Serial #	Size	Colour

Data Entry by:

WD = 111 100 000 ----- Data Out (Vel,Cor,Amp; PG,St,P0; P1,P2,P3)
 WF = 0176 ----- Blank After Transmit (cm)
 WN = 106 ----- Number of depth cells (1-128)
 WP = 00105 ----- 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 = 00:05.71 ----- Time per Ping (min:sec.sec/100)
 TS = 07/03/28,20:23:49 --- 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 = 31 ----- 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 = 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 = 07/03/28,20:23:53 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 2275

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,c2,c1,offset) -0.00,0.00,0.16,-26.65

Temp Sens Offset: -0.41 degrees C

CPU Firmware: 16.20 [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:

59 00 00 02 C9 30 61 09 DSP727-2001-04F

9D 00 00 03 01 98 83 09 REC727-1000-04A

BB 00 00 03 01 6C 43 09 CPU727-2000-00H

27 00 00 03 01 9A FB 09 PIO727-3000-04C

>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.....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					
283.190	-0.760	1.350	Up	16.230C	14.550C
0.4 kPa					
282.980	-0.920	1.220	Up	16.240C	14.550C
5.1 kPa					
282.900	-0.870	1.360	Up	16.240C	14.550C
0.8 kPa					
282.610	-0.800	1.280	Up	16.250C	14.530C
2.5 kPa					
282.430	-0.750	1.290	Up	16.240C	14.550C
2.5 kPa					
282.180	-0.770	1.490	Up	16.240C	14.530C
3.2 kPa					
282.040	-0.690	1.440	Up	16.260C	14.530C
3.7 kPa					
281.930	-0.780	1.440	Up	16.240C	14.500C
1.1 kPa					
233.230	-0.790	2.520	Up	16.250C	14.510C
4.2 kPa					
196.380	-0.350	1.290	Up	16.250C	14.500C
2.3 kPa					
173.070	0.580	0.060	Up	16.250C	14.490C
4.9 kPa					
179.150	2.020	0.990	Up	16.240C	14.490C
1.1 kPa					
199.650	-16.440	9.940	Up	16.290C	14.500C
5.4 kPa					
197.780	-8.390	24.170	Up	16.320C	14.480C
8.6 kPa					
200.770	-0.540	18.110	Up	16.270C	14.480C
2.3 kPa					
219.010	7.510	1.400	Up	16.230C	14.470C
3.0 kPa					
239.220	2.240	-13.470	Up	16.270C	14.460C
0.3 kPa					
254.740	-20.130	0.940	Up	16.290C	14.470C
3.3 kPa					
222.630	-2.880	4.530	Up	16.240C	14.450C
2.1 kPa					
219.160	-0.340	0.750	Up	16.250C	14.450C
1.9 kPa					
218.310	0.620	1.650	Up	16.260C	14.470C
6.2 kPa					
218.050	-0.140	0.510	Up	16.250C	14.610C
4.3 kPa					
217.700	-0.190	0.670	Up	16.260C	14.760C
2.8 kPa					
216.560	-0.060	0.720	Up	16.270C	14.880C
1.3 kPa					
216.670	-0.050	0.670	Up	16.250C	14.910C


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

Powering Down

```
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.20
RD Instruments (c) 1996-2001
All Rights Reserved.
>RE ErAsE erasing...
Recorder erased.
```

Powering Down

```
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.20
RD Instruments (c) 1996-2001
```

All Rights Reserved.

>RR

Recorder Directory:

Volume serial number for device #0 is 065b-10ef

No files found.

Bytes used on device #0 = 0

Volume serial number for device #1 is 2e46-1ee1

No files found.

Bytes used on device #1 = 0

Total capacity = 111697920 bytes

Total bytes used = 0 bytes in 0 files

Total bytes free = 111697920 bytes

>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.20

RD Instruments (c) 1996-2001

All Rights Reserved.

>CR1

[Parameters set to FACTORY defaults]

>CF11101

>EA0

>EB0

>ED0

>ES30

>EX11111

>EZ1111111

>WA50

>WB0

>WD111100000

>WF176

>WN99

>WP105

>WS50

>WV175

>TE00:10:00.00

>TP00:05.71

>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 SUT02

>CS

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 1500 (PST) UTC, OTHER: _____
 TAPE SIZE: 3k4 PROJECT: Aquaculture I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>770</u>		
2. Temperature	<u>873</u>		
3. Conductivity	<u>256</u>		
4. Extemp/pressure	<u>58</u>		
5. Direction	<u>369</u>		
6. Speed	<u>13</u>		
Date: <u>March 28/07</u> Time: <u>500 PST</u>			

OK PIMS

Rotor Counter Information:

Rev/Count: 4
 F.S.= 904 Cm/S
 Rotor Switch: _____
 Rotor Type: 5

Sampling Interval: <u>30</u> MIN	Depth: <u>53m</u>	TAPE ID: <u>1500/10</u>
Pressure Sensore Range: <u>800</u> PSI	Serial #: <u>50729-9</u>	
Depth Max: <u>368</u> MAX	Compass Serial #: <u>2195</u>	
Conductivity Range: <u>24-49</u> MMHO	Cell Serial #: <u>4096</u>	
HI Res Temperature Range: _____		

Channel #	Reading1	Reading 2
1. Reference	<u>730</u>	
2. Temperature	<u>844</u>	
3. Conductivity	<u>0</u>	
4. Extemp/pressure	<u>51</u>	
5. Direction	<u>657</u>	
6. Speed	<u>3</u>	
Date: <u>Sept 14/07</u> Time: <u>0158 UTC</u>		

OK P

TIME IN WATER: 1927 PDT
 DATE: Mar. 28 2007
 BAT VOLTAGE: _____ ON DEPLOYMENT
 CRUISE ID: 2007-11 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1743 PDT
 DATE: Sept 14/07
 BAT VOLTAGE: 8.82 ON RECOVERY
 CRUISE ID: 2007-62 RECOVERED
 TECHNICIAN: 4

NOTES:

Post cal at home -
Rotor stuck by organics

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 SERIAL #: 4240 PST UTC, OTHER: _____
 TAPE SIZE: 3/4 PROJECT: Aquaculture I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>464</u>		
2. Temperature	<u>950</u>		
3. Conductivity	<u>252</u>		
4. Extemp/pressure	<u>54</u>		
5. Direction	<u>8</u>		
6. Speed	<u>14</u>		
Date: <u>March 29/07</u> Time: <u>1500 PST</u>			

OK Pms

Rotor Counter Information:

Rev/Count: 4
 F.S.= 90 Cm/S
 Rotor Switch: 1
 Rotor Type: S

Sampling Interval: 30 MIN Depth: 103m TAPE ID: 4240/11
 Pressure Sensore Range: 500 PSI Serial #: 52075-10
 Depth Max: 368 MAX Compass Serial #: 6328
 Conductivity Range: 2444 MMHO Cell Serial #: 2493
 HI Res Temperature Range: _____

Channel #	Reading1	Reading 2
1. Reference	<u>464</u>	
2. Temperature	<u>0803</u>	
3. Conductivity	<u>0</u>	
4. Extemp/pressure	<u>55</u>	
5. Direction	<u>587</u>	
6. Speed	<u>164</u>	
Date: <u>Sept 14/07</u> Time: <u>0127 UTC</u>		

OK P

TIME IN WATER: 1929 PDT DATE: Mar. 28 2007
 BAT VOLTAGE: 9.82 ON DEPLOYMENT
 CRUISE ID: 2007-11 DEPLOYED
 TECHNICIAN: EP

TIME OUT WATER: 1743 PDT DATE: Sept 19/07
 BAT VOLTAGE: 8.93 ON RECOVERY
 CRUISE ID: 2007-62 RECOVERED
 TECHNICIAN: LP

13 PDT

NOTES: _____

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 SERIAL #: 638 PST, UTC, OTHER: _____
 TAPE SIZE: 3k4 PROJECT: Aquaculture I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	351	351	351
2. Temperature	953	949	948
3. Conductivity	0	258	258
4. Extemp/pressure	61	61	61
5. Direction	?	?	226
6. Speed	11	11	0
Date: <u>March 28/07</u> Time: <u>1400 PST</u>	<u>1430 PST</u>	<u>1500 PST</u>	

OK PIMS

Rotor Counter Information:

Rev/Count: 4
 F.S.= 90 Cm/S
 Rotor Switch: 4
 Rotor Type: S

Sampling Interval: 30 MIN
 Pressure Sensor Range: 1000 PSI
 Depth Max: 768 MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: _____

Depth: 153 TAPE ID: C38/31
 Serial #: 50120-57
 Compass Serial #: 18851
 Cell Serial #: 4337

Channel #	Reading1	Reading 2
1. Reference	351	
2. Temperature	861	
3. Conductivity	0	
4. Extemp/pressure	67	
5. Direction	604	
6. Speed	12	
Date: <u>Sept 14/07</u> Time: <u>0151 UTC</u>		

OK P

TIME IN WATER: 1930 PDT DATE: Mar. 28, 2007,
 BAT VOLTAGE: 9.72 ON DEPLOYMENT
 CRUISE ID: 2007-11 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1743 PDT DATE: Sept 14/07
 BAT VOLTAGE: 8.68 ON RECOVERY
 CRUISE ID: 2007-62 RECOVERED
 TECHNICIAN: LP

NOTES: _____

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Romy SERIAL #: 2754 (PST) UTC, OTHER: _____
 TAPE SIZE: 3K4 PROJECT: Aquaculture I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	513		
2. Temperature	987		
3. Conductivity	253		
4. Extemp/pressure	1023		
5. Direction	273		
6. Speed	11		
Date: <u>March 22/07</u> Time: <u>1500</u>	<u>1500</u>		

OK PMS

Rotor Counter Information:

Rev/Count: 4
 F.S. = 90 Cm/S
 Rotor Switch: 4
 Rotor Type: S

Sampling Interval: 30 MIN Depth: 203m TAPE ID: 2754/34
 Pressure Sensor Range: _____ PSI Serial #: _____
 Depth Max: 2000 MAX Compass Serial #: 4037
 Conductivity Range: 24-48 MMHO Cell Serial #: 4114
 HI Res Temperature Range: 7-12 4110 IN PMS

Channel #	Reading1	Reading 2
1. Reference	512	
2. Temperature	798	
3. Conductivity	0	
4. Extemp/pressure	1023	
5. Direction	579	
6. Speed	8	
Date: <u>Sept 14/07</u> Time: <u>0157 UTC</u>		

OK P

TIME IN WATER: 931 PDT DATE: Mar. 28, 2007
 BAT VOLTAGE: 9.72 ON DEPLOYMENT
 CRUISE ID: 2007-1 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1743 PDT DATE: Sept 14/07
 BAT VOLTAGE: 8.92 ON RECOVERY
 CRUISE ID: 2007-62 RECOVERED
 TECHNICIAN: LP

NOTES: _____

