

DEPLOYMENT RECORD

Project Name: Aquaculture Start Date: Apr. 2007 End Date: Sep. 2007
 Mooring Name: TCS04 Station Name: TCS

Geog. Desc.: Tribune Channel South Tide: +2.5 Alert
 Latitude: 50° 43.708' Longitude: 126° 10.455'
 Water Depth: 219.5 m datum Ice Thickness: —
 Magnetic decl: — Time Zone: PDT Anchor Type: 3 wheels 2260 lb
 Date: Mar. 28, 2007 Time Anchor Dropped: 1405 PDT Date: —
 Remarks: - 3 glass balls were not include during deployment
* - back up floatation missing + mooring short by app. 1.8 m

RECOVERY RECORD

Date: Sep. 12 Time Anchor Released: 1745 PDT
 Remarks: - lost release 154 due to improperly secured stopper chain and (above *) lack of backup floatation

INSTRUMENTS (Start at TOP) HOIR was submitted.

Type	Serial #	Depth	Time in	Time Out	Notes
RDS 300 R	8586				
RDS 300	5588		1342	PDT.	
Rcm4	1311		1348	PDT.	
Rcm4	4955		1350	PDT.	
Rcm4	1604		1351	PDT.	
Rcm4	6491		1353	PDT.	

Range

Release	Serial	R Code	Arm Code	Freq	On/Off	BO	BI	Aux Codes
AR191	154	B532	B531					

Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt
Helle	1/4x27	9029	OML	1/4x27	509	16.4 19.1

FLOTATION

Type	Serial #	Size	Colour
WB	3734	17"	yellow.
5530	2591	30"	"
5528	2474	28"	"
"	2569	"	"
"	19486	"	"
"	210	"	"

Type	Serial #	Size	Colour

Data Entry by:

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 SERIAL #: 1311 PST, UTC, OTHER: _____
 TAPE SIZE: 3/4 PROJECT: Aquaculture I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>741</u>		
2. Temperature	<u>81.0</u>		
3. Conductivity	<u>255</u>		
4. Extemp/pressure	<u>66</u>		
5. Direction	<u>293</u>		
6. Speed	<u>17</u>		
Date: <u>Mar 27/07</u> Time: <u>1430 PST</u>			

Rotor Counter Information:

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

Sampling Interval: 30 MIN ⁹⁰⁰
 Pressure Sensore Range: 505 PSI
 Depth Max: 268 MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: _____
 Depth: 60 TAPE ID: 1311/20
 Serial #: 51890-13
 Compass Serial #: 2570
 Cell Serial #: 750X
777

Channel #	Reading1	Reading 2
1. Reference	<u>7</u>	
2. Temperature	<u>91.6</u>	
3. Conductivity	<u>260</u>	
4. Extemp/pressure	<u>67</u>	
5. Direction	<u>402</u>	
6. Speed	<u>17</u>	
Date: <u>Sept 13/07</u> Time: <u>1700 UTC</u>		

TIME IN WATER: 1348 PDT DATE: March 27/07 TIME OUT WATER: 1745 PDT DATE: Sept 13/07
 BAT VOLTAGE: 9.72 ON DEPLOYMENT BAT VOLTAGE: 8.86 ON RECOVERY
 CRUISE ID: 2007-11 DEPLOYED CRUISE ID: 200762 RECOVERED
 TECHNICIAN: LP TECHNICIAN: LP

NOTES:

Rotor was seized by bio fouling LP.

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

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

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>45</u>		
2. Temperature	<u>801</u>		
3. Conductivity	<u>252</u>		
4. Extemp/pressure	<u>47</u>		
5. Direction	<u>280</u>		
6. Speed	<u>9</u>		
Date: <u>Mar 27/07</u> Time: <u>1430 PST</u>			

OK Pms

Rotor Counter Information:

Rev/Count: 4
 F.S.= 90 Cm/S
 Rotor Switch: 4
 Rotor Type: 5

Sampling Interval: <u>30</u> MIN	Depth: <u>95m</u>	TAPE ID: <u>4955/27</u>
Pressure Sensore Range: <u>500</u> PSI	Serial #: <u>5096 8/15</u>	
Depth Max: <u>368</u> MAX	Compass Serial #: <u>19596</u>	
Conductivity Range: <u>24-44</u> MMHO	Cell Serial #: <u>4833</u>	
HI Res Temperature Range: _____		

Channel #	Reading1	Reading 2
1. Reference	<u>45</u>	
2. Temperature	<u>914</u>	
3. Conductivity	<u>258</u>	
4. Extemp/pressure	<u>47</u>	
5. Direction	<u>366</u>	
6. Speed	<u>0</u>	
Date: _____ Time: <u>1658 UTC</u>		

OK P

TIME IN WATER: 1350 PDT DATE: Mar 28, 2007
 BAT VOLTAGE: 9.72 ON DEPLOYMENT
 CRUISE ID: 2007-11 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1745 PDT DATE: Sept 12/07 12 PDT
 BAT VOLTAGE: 8.93 ON RECOVERY
 CRUISE ID: 2007-62 RECOVERED
 TECHNICIAN: LP

NOTES: _____

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 SERIAL #: 1604 PST, UTC, OTHER: _____
 TAPE SIZE: 3 1/4" PROJECT: Aquaculture I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>152</u>		
2. Temperature	<u>819</u>		
3. Conductivity	<u>257</u>		
4. Extemp/pressure	<u>1023</u>		
5. Direction	<u>290</u>		
6. Speed	<u>17</u>		
Date: <u>March 27/07</u> Time: <u>1430 PST</u>			

OK Pms

Rotor Counter Information:

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

Sampling Interval: 30 MIN Depth: 140m TAPE ID: 1604/20
 Pressure Sensor Range: _____ PSI Serial #: _____
 Depth Max: 2200 MAX Compass Serial #: 2257
 Conductivity Range: 24-44 MMHO Cell Serial #: 4064 (Pms)
 HI Res Temperature Range: 4-12

Channel #	Reading1	Reading 2
1. Reference	<u>0153</u>	
2. Temperature	<u>902</u>	
3. Conductivity	<u>264</u>	
4. Extemp/pressure	<u>1023</u>	
5. Direction	<u>589</u>	
6. Speed	<u>3</u>	
Date: <u>Sept 13/07</u> Time: <u>1828 UTC</u>		

OK P

TIME IN WATER: 1351 PDT DATE: Mar. 28, 2007
 BAT VOLTAGE: 9.72 ON DEPLOYMENT
 CRUISE ID: 2007-11 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1745 PDT DATE: Sept 13/07 12 PDT
 BAT VOLTAGE: 8.86 ON RECOVERY
 CRUISE ID: 2007-62 RECOVERED
 TECHNICIAN: LP

NOTES:

Rotor impeded by tape. LP

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm 4 SERIAL #: 6491 PST UTC, OTHER: _____
 TAPE SIZE: 3 1/4 PROJECT: Aquaculture I(mA) _____

OK
Pins

Channel #	Reading1	Reading 2	Last Cal
1. Reference	840		
2. Temperature	830		
3. Conductivity	256		
4. Extemp/pressure	1023		
5. Direction	347		
6. Speed	22		
Date: <u>March 27/07</u> Time: <u>1430 PST</u>			

Rotor Counter Information:

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

Sampling Interval: 30 MIN Depth: 185m TAPE ID: 6491/23
 Pressure Sensor Range: _____ PSI Serial #: _____
 Depth Max: 2000 MAX Compass Serial #: 15671
 Conductivity Range: 24-14 MMHO Cell Serial #: 7341
 HI Res Temperature Range: 4-12

Channel #	Reading1	Reading 2
1. Reference	840	
2. Temperature	904	
3. Conductivity	264	
4. Extemp/pressure	1023	
5. Direction	358	
6. Speed	1	
Date: <u>Sept 13/07</u> Time: <u>1658 UTC</u>		

OKP

TIME IN WATER: 1353 ^{PDT} DATE: March 27/07
 BAT VOLTAGE: 9.72 ON DEPLOYMENT
 CRUISE ID: 2007-11 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1745 ^{PDT} DATE: Sept 13/07
 BAT VOLTAGE: 8.85 ON RECOVERY
 CRUISE ID: 2007-62 RECOVERED
 TECHNICIAN: LP

NOTES: _____

PlanADCP (Basic) : [TCS04]

BackToSC Settings View Help

Cell Size 0.50m

First Cell 2.71m

Max Range 86.11m

Last Cell 54.71m

CAUTION: Not enough battery packs for the deployment.

Advanced

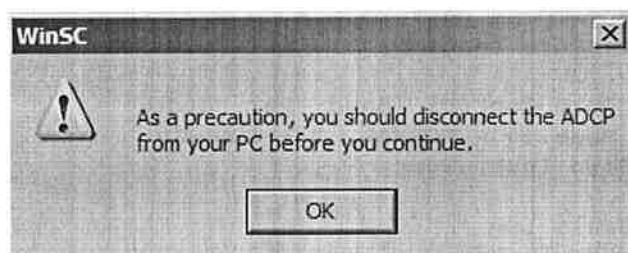
Proposed Setup:		Deployment Consequences:	
Deployment Duration:	174 days	First Cell Range:	2.71 m
Ensemble Interval:	00:10:00	Last Cell Range:	54.71 m
Salinity:	30 ppt	Max Range:	86.11 m
Temperature:	8 °C	Standard Deviation:	2.26 cm/s
Water Pings:	155	Ensemble Size:	2248 bytes
Number of Depth Cells:	105	Storage Required:	53.72 MB
Depth Cell Size:	0.5 m	Power Usage:	1371.15 Wh
		Battery Pack Usage:	3.0

Notes

TCS04 300kHz S/N 5588
VECTOR cruise 2007-11

Workhorse Sentinel: 300 kHz/ High Res./ 3 Battery Packs/ Memory: 56 MB

NUM



```
>>>>> Function starting 03/28/07 10:54:54 >>>>>
êä+koQ@;pêä+koQÃjûpêä+koQÃjxÿ
>>>>> Function starting 03/28/07 10:57:44 >>>>>
```

```
[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 = 0176 ----- Blank After Transmit (cm)
WN = 110 ----- Number of depth cells (1-128)
WP = 00125 ----- Pings per Ensemble (0-16384)
WS = 0100 ----- Depth Cell Size (cm)
```

WV = 175 ----- Mode 1 Ambiguity Vel (cm/s radial)
 TE = 00:15:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)
 TF = **/**/**, **: **: ** --- Time of First Ping (yr/mon/day, hour:min:sec)
 TP = 00:07.20 ----- Time per Ping (min:sec.sec/100)
 TS = 07/03/28,18:57:49 --- 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 = 30 ----- Salinity (0-40 pp thousand)
 EX = 11111 ----- Coord Transform (Xform: Type, Tilts, 3 Bm, Map)
 EZ = 111111 ----- 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 = 07/03/28,18:57:54 --- Time Set (yr/mon/day, hour:min:sec)

>PS0

Instrument S/N: 5588

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 TEMPERATURE
Temp Sens Offset: -0.30 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:

2A 00 00 03 AC E5 90 09 DSP727-2001-04G
F8 00 00 03 A4 82 4D 09 REC727-1000-04E
EB 00 00 03 A4 9D 4D 09 CPU727-2000-00J
80 00 00 03 A4 50 63 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					
30.180	-1.840	-0.910	Up	13.600C	12.470C
0.0 kPa					
30.270	-1.810	-0.890	Up	13.590C	12.470C
0.0 kPa					
30.370	-1.820	-0.890	Up	13.600C	12.470C
0.0 kPa					
30.550	-1.830	-0.900	Up	13.610C	12.460C
0.0 kPa					
30.450	-1.810	-0.890	Up	13.610C	12.480C
0.0 kPa					
30.720	-1.810	-0.900	Up	13.590C	12.480C
0.0 kPa					
30.790	-1.800	-0.890	Up	13.620C	12.480C
0.0 kPa					
30.780	-1.800	-0.890	Up	13.600C	12.470C
0.0 kPa					
30.870	-1.790	-0.890	Up	13.590C	12.470C
0.0 kPa					
30.790	-1.780	-0.880	Up	13.610C	12.450C
0.0 kPa					
30.870	-1.790	-0.880	Up	13.620C	12.460C
0.0 kPa					
30.890	-1.780	-0.890	Up	13.620C	12.460C
0.0 kPa					
31.020	-1.780	-0.890	Up	13.630C	12.480C
0.0 kPa					
30.990	-1.800	-0.890	Up	13.620C	12.470C
0.0 kPa					
31.920	-1.790	-0.890	Up	13.600C	12.470C
0.0 kPa					
37.310	-1.700	-0.880	Up	13.620C	12.480C
0.0 kPa					
342.920	-21.980	-22.890	Up	13.660C	12.490C
0.0 kPa					
2.860	-21.980	-22.890	Up	13.650C	12.470C
0.0 kPa					
10.880	-21.980	-22.890	Up	13.630C	12.450C
0.0 kPa					
347.320	-21.980	-22.890	Up	13.580C	12.450C
0.0 kPa					
32.830	-21.820	20.360	Up	13.640C	12.450C
0.0 kPa					
30.010	-21.820	20.360	Up	13.690C	12.460C
0.0 kPa					
1.310	-21.820	20.360	Up	13.590C	12.460C
0.0 kPa					
39.510	-21.820	20.360	Up	13.660C	12.450C
0.0 kPa					
52.350	-21.820	20.360	Up	13.710C	12.460C
0.0 kPa					
61.400	-21.820	20.360	Up	13.620C	12.480C
0.0 kPa					
61.350	-21.820	20.360	Up	13.620C	12.450C
0.0 kPa					
56.250	-21.820	20.360	Up	13.590C	12.470C


```
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
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```

>RE ErAsE erasing...
Recorder erased.

>CZ

Powering Down

>>>>> Function starting 03/28/07 11:00:59 >>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
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>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 193e-1400

No files found.

Bytes used on device #1 = 0
Total capacity = 57735168 bytes
Total bytes used = 0 bytes in 0 files
Total bytes free = 57735168 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
>ED0
>ES30
>EX11111
>EZ1111111
>WA50
>WB0
>WD111100000
>WF176
>WN105
>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 TCS04

>CS