

DEPLOYMENT RECORD

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

Geog. Desc.: Tribune Channel South Tide: Port Harvey +3m
 Latitude: 50°43.700' Longitude: 126°10.477'
 Water Depth: 222m datum Ice Thickness: —
 Magnetic decl: — Time Zone: UTC Anchor Type: 4 wheels 2890
 Date: — Time Anchor Dropped: 1629 PDT Date: Mar. 27, 2008
 Remarks:

RECOVERY RECORD

Date: Sep. 12, 2008 Time Anchor Released: 0830 PDT
 Remarks: - mooring bio-fouled affecting top two RCMs.
- otherwise recovered without problem.

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in UTC	Time Out	Notes
<u>RDT</u>	<u>5588</u>	<u>42m</u>	<u>2314</u>		<u>Plastic case/plastic external/w ti hard</u>
<u>RCM4</u>	<u>5471</u>	<u>62m</u>	<u>2316</u>		<u>wrk</u>
<u>RCM4</u>	<u>1311</u>	<u>97m</u>	<u>2320</u>		
<u>RCM4</u>	<u>4955</u>	<u>142m</u>	<u>2322</u>		
<u>RCM4</u>	<u>409</u>	<u>187m</u>	<u>2324</u>		

WB. 3734

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes
<u>AR861</u>	<u>734</u>	<u>1655</u>	<u>16B4</u>					
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
<u>Hydr.</u>	<u>1/4x27</u>	<u>6573</u>	<u>Helle</u>	<u>1/4x27</u>	<u>9398</u>	<u>15.8/19.6</u>		

FLOTATION

Type	Serial #	Size	Colour
<u>WB</u>	<u>3734</u>	<u>17"</u>	<u>Yellow</u>
<u>SS30</u>	<u>2591</u>	<u>30"</u>	<u>"</u>
<u>4 Vinyl ADCP Frame</u>			<u>Orange</u>
<u>SS30</u>	<u>3004</u>	<u>30"</u>	<u>Yellow</u>
<u>SS30</u>	<u>3002</u>	<u>30"</u>	<u>Yellow</u>
<u>SS28</u>	<u>M487</u>	<u>28"</u>	<u>"</u>
<u>SS28</u>	<u>M488</u>	<u>28"</u>	<u>"</u>

Type	Serial #	Size	Colour

Data Entry by:

PlanADCP (Advanced) : [TCS06]

BackToSC Settings View Help

CAUTION: Not enough battery packs for the deployment.

Basic Advanced Expert

Environmental Setup:

Transducer Depth: 0 m

Salinity: 31 ppt

Magnetic Variation: 0 °

Temperature: 7 °C

Deployment Timing Setup:

Duration: 180 days

Ensemble Interval: 00:10:00.00

Ping Int. (☒ Auto): 00:00:06.00

Min TP

☐ Ping Immediately After Deployment

First Ping Date and Time:

27-Mar-2008 23:00:00

Profiling Setup:

Pings Per Ensemble: 100

Number of Depth Cells: 109

Depth Cell Size: 0.5 m

Mode: 1

Deployment Consequences:

First Cell Range: 2.72 m

Last Cell Range: 56.72 m

Max Range: 77.32 m

Standard Deviation: 2.79 cm/s

Ensemble Size: 2334 bytes

Storage Required: 57.69 MB

Power Usage: 939.22 Wh

Battery Pack Usage: 2.1

Notes:

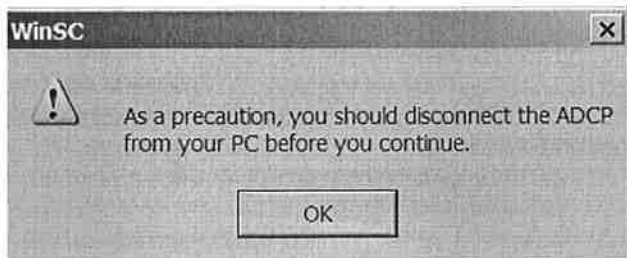
TCS06
s/n 5588
2008-07
42 m.
Plastic housing, with plastic external battery case (no compass swing no new internal battery)

Workhorse Sentinel: 300 kHz/ High Res./ 2 Battery Packs/ Memory: 105 MB

NUM

Stopped 1638

CR1
CF11101
EA0
EB0
ED0
ES31
EX11111
EZ1111111
WA50
WB0
WD111100000
WF176
WN109
WP100
WS50
WV175
TE00:10:00.00
TP00:06.00
TF08/03/27 23:00:00
CK
CS



>>>>>> Function starting 03/27/08 22:39:32 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>TS080327223934
>CZ

Powering Down

>>>>>> Function starting 03/27/08 22:39:39 >>>>>>

[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 = 109 ----- Number of depth cells (1-128)
WP = 00100 ----- 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 = 00:06.00 ----- Time per Ping (min:sec.sec/100)
TS = 08/03/27,22:39:40 --- 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 = 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)

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

RF ----- Recorder Space used/free (bytes)

RY ----- Upload Recorder Files to Host

>TS?

TS = 08/03/27,22:39:43 --- 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
131.56° 0.26° -0.47° Up 19.79°C 19.40°C 0.0 kPa
>RS
RS = 000,101 ----- 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...
35 39 39 37

```

```

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

```

>CZ

Powering Down

>>>>> Function starting 03/27/08 22:40:50 >>>>>

[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 03/27/08 22:41:00 >>>>>

[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 1809-0b21

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 = 105695232 bytes
Total bytes used = 0 bytes in 0 files
Total bytes free = 105695232 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
>ES31
>EX11111
>EZ1111111
>WA50
>WB0
>WD111100000

>WF176
>WN109
>WP100
>WS50
>WV175
>TE00:10:00.00
>TP00:06.00
>TF08/03/27 23:00:00
>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 TCS06

>cs

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 5471 PST/UTC, OTHER:
 TAPE SIZE: 3" PROJECT: I(mA)

Channel #	Reading1	Reading 2	Last Cal
1. Reference	705		
2. Temperature	840		
3. Conductivity	264		
4. Extemp/pressure	?		
5. Direction	898		
6. Speed	12		
Date: <u>March 27/08</u> Time: <u>2130 UTC</u>			

Rotor Counter Information:

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

Sampling Interval: 30 MIN Depth: 62m TAPE ID: 5471/20
 Pressure Sensor Range: 200 PSI Serial #: 50967-2
 Depth Max: 138 MAX Compass Serial #: 8370
 Conductivity Range: 24-44 MMHO Cell Serial #: 8370
 HI Res Temperature Range:

Channel #	Reading1	Reading 2
1. Reference	705	
2. Temperature	1000	
3. Conductivity	263	
4. Extemp/pressure	43	
5. Direction	564	
6. Speed	0	
Date: <u>Sept 13/08</u> Time: <u>1701 UTC</u>		

TIME IN WATER: DATE: Mar. 27 2008
 BAT VOLTAGE: 9.91 ON DEPLOYMENT
 CRUISE ID: 2008-07 DEPLOYED
 TECHNICIAN: LP JLo

TIME OUT WATER: 0830 PDT DATE: Sept 12/08
 BAT VOLTAGE: 8.97 ON RECOVERY
 CRUISE ID: 2008-50 RECOVERED
 TECHNICIAN: LP

NOTES: Rotor heavily fouled

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 1311 PST/UTC, OTHER:
 TAPE SIZE: 3" PROJECT: I(mA)

Channel #	Reading 1	Reading 2	Last Cal
1. Reference	<u>7</u>		
2. Temperature	<u>827</u>		
3. Conductivity	<u>256</u>		
4. Extemp/pressure	<u>67</u>		
5. Direction	<u>53</u>		
6. Speed	<u>6</u>		
Date: <u>March 22/08</u> Time: <u>2130 UTC</u>			

Rotor Counter Information:

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

Sampling Interval: <u>30</u> MIN	Depth: <u>97m</u>	TAPE ID: <u>1311/21</u>
Pressure Sensor Range: <u>500</u> PSI	Serial #: <u>51890-13</u>	
Depth Max: <u>366</u> MAX	Compass Serial #: <u>2538</u>	
Conductivity Range: <u>24-47</u> MMHO	Cell Serial #: <u>750</u>	
HI Res Temperature Range: <u> </u>	<u>77.7</u>	

Channel #	Reading 1	Reading 2
1. Reference	<u>512</u>	
2. Temperature	<u>1007</u>	
3. Conductivity	<u>256</u>	
4. Extemp/pressure	<u>67</u>	
5. Direction	<u>609</u>	
6. Speed	<u>8</u>	
Date: <u>Sept 13/08</u> Time: <u>1701 UTC</u>		

TIME IN WATER: DATE: Mar. 27 2008
 BAT VOLTAGE: 9.73 ON DEPLOYMENT
 CRUISE ID: 2006-7 DEPLOYED
 TECHNICIAN: LP JLO

TIME OUT WATER: 0830 PDT DATE: Sept 12/08
 BAT VOLTAGE: 8.92 ON RECOVERY
 CRUISE ID: 2008-50 RECOVERED
 TECHNICIAN: LP

NOTES: Rotor heavily fouled

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 4955 PST, UTC, OTHER:
TAPE SIZE: 3" PROJECT: I(mA)

Channel #	Reading1	Reading 2	Last Cal
1. Reference	45		
2. Temperature	847		
3. Conductivity	253		
4. Extemp/pressure	46		
5. Direction	768		
6. Speed	7		
Date: March 27/2017 Time:	2130 UTC		

Rotor Counter Information:

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

Sampling Interval: 30 MIN
Pressure Sensor Range: 500 PSI
Depth Max: 368 MAX
Conductivity Range: 24-44 MMHO
HI Res Temperature Range: _____

Depth: 142 m TAPE ID: 4955/24
Serial #: 50968/15
Compass Serial #: 19596
Cell Serial #: 2505 - changed from
cell # 4838

Channel #	Reading1	Reading 2
1. Reference	45	
2. Temperature	1006	
3. Conductivity	253	
4. Extemp/pressure	46	
5. Direction	552	
6. Speed	0	
Date: Sept 13/08	Time: 1059	

TIME IN WATER: _____ DATE: Mar. 27 2008
BAT VOLTAGE: 9.91 ON DEPLOYMENT
CRUISE ID: 2008-07 DEPLOYED
TECHNICIAN: CP-JL

TIME OUT WATER: 0825 DATE: Sept 12 / 08
BAT VOLTAGE: 8.90 ON RECOVERY
CRUISE ID: 2008-50 RECOVERED
TECHNICIAN: CP

NOTES: _____

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 SERIAL #: 409 PST, UTC, OTHER: (Circled)
 TAPE SIZE: 3" PROJECT: _____ I(mA) _____

Channel #	Reading1	Reading 2	Last Cal
1. Reference	408		
2. Temperature	736		
3. Conductivity	289		
4. Extemp/pressure	1023		
5. Direction	105		
6. Speed	8		
Date: <u>March 27/08</u> Time: <u>2130 UTC</u>			

Rotor Counter Information:

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

Sampling Interval: 30 MIN Depth: 187m TAPE ID: 409/1
 Pressure Sensor Range: _____ PSI Serial #: _____
 Depth Max: 2000 MAX Compass Serial #: 20622
 Conductivity Range: 24-44 MMHO Cell Serial #: 2498
 HI Res Temperature Range: 4-12

Channel #	Reading1	Reading 2
1. Reference		
2. Temperature		
3. Conductivity		
4. Extemp/pressure		
5. Direction		
6. Speed		
Date: _____ Time: _____		

TIME IN WATER: _____ DATE: Mar. 27 2008
 BAT VOLTAGE: 9.98 ON DEPLOYMENT
 CRUISE ID: 2008-07 DEPLOYED
 TECHNICIAN: LP/SLD

TIME OUT WATER: 0830 PDT DATE: Sept 12, 08
 BAT VOLTAGE: 1.72 ON RECOVERY
 CRUISE ID: 2008-50 RECOVERED
 TECHNICIAN: LP

NOTES: This instrument's serial # has been changed from 3688 to 409 (which is the ref #). We've had 2x3688 in past with ref #'s 409 and 566. Lucas

Recovery - Battery was dead (1.72V) and tape was almost completely full. I suspect it triggered constantly until Bat died. LP.
- upon inspection - it looks like water came in through conductivity cell.