

TCS01
5588

DEPLOYMENT RECORD

Project Name: Aquaculture Start Date: May 8/05 End Date: Oct
Mooring Name: TCS-01 Station Name: TCS

Geog. Desc.: Tribune Channel South Tide: + 1 m
Latitude: 50° 43.178' Longitude: 126° 12.025'
Water Depth: 201 m datum Ice Thickness: —
Magnetic decl: — Time Zone: PDT Anchor Type: 4 wheels 2700 lbs
Date: May 5, 2005 Time Anchor Dropped: 0845 PDT Date: —
Remarks: —

RECOVERY RECORD

Date: Oct. 7, 2005 Time Anchor Released: 1201 PDT
Remarks: - recovered without incident

INSTRUMENTS (Start at TOP)

Type	Serial #	Depth	Time in	Time Out	Notes
WH 300	5588	39 m	0836	0843	PDT
RCM4	8488	59 m			
RCM4	7893	94 m			
RCM4	7853				
RCM4	6924	139 m			
RCM4	7463				
	7463	184 m			

Release	Serial	R Code	Arm Code	Freq	On/Off	B0	B1	Aux Codes
1090	214	ABFH	CDFG	8kHz				
Pinger 1	Type	Serial	Pinger 2	Type	Serial	Battery Volt		
OML	1/4x27	680	Helle	1/4x27	7490	19.8	22.5	

FLOTATION

Type	Serial #	Size	Colour
SS34	5903	34"	yellow
ADCP Float	8 Vinyl		orange
SS30	30071	30"	yellow
SS30	M1819	"	"
SS30	3006	"	"
SS30	2570	"	"

Type	Serial #	Size	Colour

Data Entry by:

Workhorse Deployment file supplied by Dario.

RdiPlan (v01.22.000) Dpl6

Options

300 kHz Workhorse Monitor/Sentinel

Choices

Number of Bins [1 - 128] 117

Bin Size (m) [0.20 - 16.00] 0.50

Pings Per Ensemble [1045] 135

Interval (h:m:s) [00:01:18] 00:10:00

Deployment Duration (days): 60.00

Transducer Depth (m): 40.0

Salinity: (ppt) 30

Magnetic Variation (deg): + 0.0

Power

High

Low

Mode

BB

LR

Consequences

2.50 m First Bin Range

61.00 m Last Bin Range

79.67 m Max Range

436.4 Wh Battery Usage

Temperature: + 5.0 (Deg C)

2.4 cm/s Standard Deviation

8640-2472 Byte Ensembles

21.36 MB Storage Required

First Ping

☒ Immediately After Deployment

Time and Date: 18:42:00 2005-05

Data

☒ Record Internally (ADCP)

☐ Send Data Out Serial Port

Defaults Undo

Notes

TCS01 (Tribune Channel)

WHS300-I, sn 5588

ADCP at ~40m depth

39m

Enter the number of bins. The range with the current choices is 1 to 128

OK Cancel Apply Help

Running tests.

Note – This Instrument is communicating at 9600 baud, No parity, 1 stop bit.

>>>>>> Function starting 05/04/05 17:59:18 >>>>>>

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.21

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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 = 030 ----- Number of depth cells (1-128)
 WP = 00000 ----- Pings per Ensemble (0-16384)
 WS = 0400 ----- Depth Cell Size (cm)
 WV = 175 ----- Mode 1 Ambiguity Vel (cm/s radial)

 TE = 00:00:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)
 TF = **/**/**, **: **: ** --- Time of First Ping (yr/mon/day, hour:min:sec)
 TP = 00:00.00 ----- Time per Ping (min:sec.sec/100)
 TS = 05/05/05,02:00:15 --- 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 = 10000 ----- Coord Transform (Xform: Type,Tilts,3 Bm,Map)
 EZ = 0111111 ----- Sensor Source (C,D,H,P,R,S,T)

 CF = 00110 ----- 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
RF ----- Recorder Space used/free (bytes)
RY ----- Upload Recorder Files to Host

>TS?

TS = 05/05/05,02:00:34 --- 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

DEMOMOD #1 Ver: ad48, Type: 1f

DEMOMOD #2 Ver: ad48, Type: 1f

PWRTIMING 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.....***FAIL***
>PC2

```

Press any key to quit sensor display ...

```

Heading Pitch Roll Up/Down Attitude Temp Ambient Temp PRESSURE
4.95ø -21.88ø 3.77ø Up 20.74øC 19.23øC 0.0 kPa
>RS ERR 010: UNRECOGNIZED COMMAND
>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 38 39 37

```

```

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

```

```
>CZ
```

Powering Down

```
>>>>>> Function starting 05/04/05 18:03:02 >>>>>>
```

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
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>CR1

[Parameters set to FACTORY defaults]

>CF11101

>EA0

>EB0

>ED400

>ES30

>EX11111

>EZ1111111

>WA50

>WB0

>WD111100000

>WF176

>WN117

>WP135

>WS50

>WV175

>TE00:10:00.00

>TP00:04.44

>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 TSC01

>cs

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 0498 PST UTC, OTHER: _____
TAPE SIZE: 3/4 PROJECT: _____ I(mA) _____

Channel #	Reading 1	Reading 2	Last Cal
1 Reference	715		
2 Temperature	957		
3 Conductivity	256		
4 Ext. mo/pressure	61		
5 Direction	225		
6 Speed	6		
Date <u>MAY 4/05</u> Time <u>2000</u>			

PST

Rotor Counter Information:

Rev/Count: 4
F.S. = 95 Cm/S
Rotor Switch: 34
Rotor Type: 6

Sampling Interval: 30 MIN
Pressure Sensor Range: 200 PSI
Depth Max: 138 MAX
Conductivity Range: 24-44 MMHO
HI Res Temperature Range: _____

Depth: 39m TAPE ID: 0498/6
Serial #: 52783-8
Compass Serial #: 13958
Cell Serial #: 9999 ?

Tape # please.

Channel #	Reading 1	Reading 2
1 Reference	715	
2 Temperature	885	
3 Conductivity	249	
4 Ext. mo/pressure	71	
5 Direction	509	
6 Speed	1	
Date <u>Oct 8/05</u> Time <u>0101</u>		

TIME IN WATER: 0836 PDT DATE: May 5, 2005
BAT VOLTAGE: 9.8 ON DEPLOYMENT
CRUISE ID: 2005-06 DEPLOYED
TECHNICIAN: LP

TIME OUT WATER: 1201 PDT DATE: Oct 7/05
BAT VOLTAGE: 8.83v ON RECOVERY
CRUISE ID: 200523 RECOVERED
TECHNICIAN: LP

NOTES: Tape caught up around pinch roller.

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 7893 PST UTC, OTHER: _____
 TAPE SIZE: 3 1/4" PROJECT: AQUACULTURE 2005 I(mA) _____

Channel #	Reading 1	Reading 2	Last Cal
1. Reference	383		
2. Temperature	972		
3. Conductivity	297		
4. Extemp/pressure	47		
5. Direction	175		
6. Speed	9		
Date <u>MAY 4/05</u> Time <u>2000</u>			

PST

Rotor Counter Information:

Rev/Count: 4
 F.S. = 95 Cm/S
 Rotor Switch: 4
 Rotor Type: S

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

Depth: 94m TAPE ID: 7893/15
 Serial #: 51890-6
 Compass Serial #: 0016291
 Cell Serial #: 7792

Channel #	Reading 1	Reading 2
1. Reference	382	
2. Temperature	911	
3. Conductivity	265	
4. Extemp/pressure	47	
5. Direction	559	
6. Speed	8	
Date <u>OCT 8/05</u> Time <u>0130 UTC</u>		

TIME IN WATER: 0839 PDT DATE: May 5, 2005
 BAT VOLTAGE: 9.90 ON DEPLOYMENT
 CRUISE ID: 2005-08 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1201 PDT DATE: OCT 7/05
 BAT VOLTAGE: 8.78 ON RECOVERY
 CRUISE ID: 2005-23 RECOVERED
 TECHNICIAN: LP

NOTES: _____

Tape # pls.
7893/15

PIMS HAS
 DIFF. COMPASS #

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: RCM4 SERIAL #: 6924 PST, UTC, OTHER: _____
 TAPE SIZE: 3844 PROJECT: _____ I(mA) _____

Channel #	Reading 1	Reading 2	Last Cal
1. Reference	<u>595</u>		
2. Temperature	<u>953</u>		
3. Conductivity	<u>254</u>		
4. Extemp/pressure	<u>1023</u>		
5. Direction	<u>147</u>		
6. Speed	<u>13</u>		
Date: <u>MAY 4/05</u> Time: <u>2000</u>			

Rotor Counter Information:

Rev/Count: 4
 F.S.= 95 Cm/S
 Rotor Switch: 4
 Rotor Type: 5

Sampling Interval: 30 MIN Depth: 139 m TAPE ID: 6924/16
 Pressure Sensor Range: 0 PSI Serial #: _____
 Depth Max: 2000 MAX Compass Serial #: _____
 Conductivity Range: 24-44 MMHO Cell Serial #: 29?? 6756
 HI Res Temperature Range: 4-12 PIMS (2002)

Channel #	Reading 1	Reading 2
1. Reference	<u>595</u>	<u>595</u>
2. Temperature	<u>902</u>	<u>902</u>
3. Conductivity	<u>258</u>	<u>258</u>
4. Extemp/pressure	<u>1023</u>	<u>1023</u>
5. Direction	<u>500</u>	<u>500</u>
6. Speed	<u>1</u>	<u>1</u>
Date: <u>Oct 7/05</u> Time: _____		

TIME IN WATER: 0841 PST DATE: May 5, 2005
 BAT VOLTAGE: 9.90 ON DEPLOYMENT
 CRUISE ID: 2005-08 DEPLOYED
 TECHNICIAN: LP

TIME OUT WATER: 1201 PST DATE: Oct 7/05
 BAT VOLTAGE: 8.78 ON RECOVERY
 CRUISE ID: 2005-23 RECOVERED
 TECHNICIAN: LP

NOTES: _____

IOS OCEAN PHYSICS

AANDERA CURRENT METER DEPLOYMENT AND RECOVERY RECORD

INSTRUMENT: Rcm4 7463 SERIAL #: 7463 PST UTC, OTHER: _____
 TAPE SIZE: 3 1/4 PROJECT: 2005-08 I(mA) _____

Channel #	Reading 1	Reading 2	Last Cal
1. Reference	245		
2. Temperature	970		
3. Conductivity	258		
4. Extemp/pressure	1023		
5. Direction	176		
6. Speed	29		
Date <u>MAY 4/05</u> Time <u>2000</u>	<u>PST</u>		

Rotor Counter Information:

Rev/Count: 4
 F.S. = 95 Cm/S
 Rotor Switch: 4
 Rotor Type: 5

Sampling Interval: 30 MIN
 Pressure Sensor Range: - PSI
 Depth Max: 2000 MAX
 Conductivity Range: 24-44 MMHO
 HI Res Temperature Range: 4-12

Depth: 184m TAPE ID: 7463/22
 Serial #: _____
 Compass Serial #: 11972
 Cell Serial #: 7654

Channel #	Reading 1	Reading 2
1. Reference	246	
2. Temperature	909	
3. Conductivity	258	
4. Extemp/pressure	1023	
5. Direction	534	
6. Speed	8	
Date <u>Oct 8/05</u> Time <u>0131 UTC</u>		

TIME IN WATER: 0843 PDT DATE: May 5, 2005 TIME OUT WATER: 1201 PDT DATE: Oct 7/05
 BAT VOLTAGE: 9.97 ON DEPLOYMENT BAT VOLTAGE: 8.90 ON RECOVERY
 CRUISE ID: 2005-08 DEPLOYED CRUISE ID: 2005-22 RECOVERED
 TECHNICIAN: _____ TECHNICIAN: LP

NOTES: _____

