Mooring Deployment Record

Project Name:	SOG Ambient Monitoring
Project Area:	SOG

Mooring Name:	SOGW	Station Name	SOGN-H
Latitude:	49° 50.20S	Longitude:	124° 52.133
Depth:	330	Tide:	
Mag. Declination:		Time Zone:	UTC
Date:	0128	Time:	07/08/2010
Remarks:			

Recovery

Date:		Time:	
Remarks:			

Instruments

Type	Serial #	Depth	Time In:	Time Out	Notes
Baker	HB569	45			
SBE37	6027	46.6			
RCM11	564	48.2			
Sonde	02A094 B AB	145			
WH 600	2275	280	#3694	only case from #2275 was used	
RBR	17084	320			
SBE37	3501	320.			

Releases

Release	Serial #	Range:	Release	Freq	Other
AR191	16U	B533	B534		

Pingers

Pinger	Serial #	Voltage	Freq
Helle	8547	19.5	27
Helle	6397	20.3	27

Flotation

Type	Serial #	Size	Colour	Type	Serial #	Size	Colour
SB30	3007	30					
SB30	3012	30					
SS 28	M232	28					
SS 28	208	28					

Juhász, Tamás

From: Ian Beliveau [beliveau@oceanetic.com]
Sent: August 10, 2010 9:29 AM
To: Juhász, Tamás
Subject: 2010 vector 57
Attachments: "Certification"

Hi Tom,

The sum of hours for the trip is 41. That includes prep the day before with the fab of 2 x RCM 11 batteries. This will be out from what you expected, especially since it was one day less, so we can talk. Normally we agree on a set hourly rate, could we boost that a bit?

The data is on a flash drive, can drop it by today. The RCM at SoGN didn't collect anything, not sure why. I did not have a spare dsu to test (will be on the list next time), but it could be that the main electronics is having a problem. There was no sign of leakage in the pressure housing that I could see, closer inspection will be needed. This is the one with big corrosion problems, and on recovery the dsu display was 12 words.

Lastly there are some possible time-sync issues:

- Microcats #3501 deployed at SoGN-H was synced to my watch (PDT) instead of UTC.

- My PC was used to program instruments and synced to UTC from the gps. It looked as though the day was not changed before deployment of SoGS though (so it was set to Aug 6th, not 7th). I checked the ADCP log and it has the correct date though... the RCM at SoGN will need to be checked and possibly corrected for this. I have the proper start time and date recorded so this is no problem.

This is one of those realizations that happens at the end of a long day. Was my mind playing tricks? Why was the ADCP fine? Anyway Sophie knows about this, and the notes are included as "readme.txt" in the instrument directory.

See you later,
Ian

05/09/2010

```
☐SBE 37-SM
S>ds
SBE37-SM V 2.6b   SERIAL NO. 3501      01 Jan 1980   00:00:03
logging not started
sample interval = 900 seconds
samplenumber = 0, free = 190650
do not transmit real-time data
output salinity with each sample
output sound velocity with each sample
store time with each sample
number of samples to average = 4
serial sync mode disabled
wait time after serial sync sampling = 30 seconds
internal pump not installed
temperature = 23.79 deg C
S>mmddyy=080610
S>hhmmss=1221☐
☐
☐
☐
0721☐
215
S>ds
SBE37-SM V 2.6b   SERIAL NO. 3501      06 Aug 2010   07:22:17
logging not started
sample interval = 900 seconds
samplenumber = 0, free = 190650
do not transmit real-time data
output salinity with each sample
output sound velocity with each sample
store time with each sample
number of samples to average = 4
serial sync mode disabled
wait time after serial sync sampling = 30 seconds
internal pump not installed
temperature = 23.82 deg C
S>startddmmyy=06☐☐SBE 37-SM
S>1
?cmd S>ds
SBE37-SM V 2.6b   SERIAL NO. 3501      06 Aug 2010   07:24:32
logging not started
sample interval = 900 seconds
samplenumber = 0, free = 190650
do not transmit real-time data
output salinity with each sample
output sound velocity with each sample
store time with each sample
number of samples to average = 4
serial sync mode disabled
wait time after serial sync sampling = 30 seconds
internal pump not installed
temperature = 23.98 deg C
S>startddmmyy=060810
S>starthhmmss=100000
start time = 06 Aug 2010   10:00:00
S>ds
SBE37-SM V 2.6b   SERIAL NO. 3501      06 Aug 2010   07:25:33
logging not started
sample interval = 900 seconds
samplenumber = 0, free = 190650
```

```
do not transmit real-time data
output salinity with each sample
output sound velocity with each sample
store time with each sample
number of samples to average = 4
serial sync mode disabled
wait time after serial sync sampling = 30 seconds
internal pump not installed
temperature = 24.08 deg C
S>startlater
start time = 06 Aug 2010  10:00:00
□ý
```

CAUTION

Synchronize the time tags of this instrument with the first reading time. The PC may have had the incorrect UTC day when the clocks were synced.

Ian Beliveau

firstReading_564.txt

A.M.L. M-637 CONVERTER V001
00757 00000 00000 01023 00000 00005 S
First reading at 22:51:06 UTC Aug 6th, 2010, SoGN-H

OziExplorer

File Select View Map Options View Map Moving Map Navigation Magellan Help

T OF GEORGIA NORTHERN PORTION/PARTIE NORD

Quit Load Save Wpt Evt ZOOM ZOOM ZOOM ZOOM ZOOM ZOOM Drag Info Index Name
200 100 50 FULL 200

49° 49.687' N 124° 52.355' W UTM 10U 3 65 323E 55 21 202N NAD83

Map Waypoint Event Track Route

Moving Map Control

UR 1 TI 50 TT 0
SM Keep Map Centered on Position

Speed 1.7 Off Alt
True 141 122 Mag

Navigation Control

Next Wp Gossip Shoals
Distance 84.280 nm
CTS 132 Tr
XTE 1.629 Right
ETE 49:34:36
ETA 01:33:47

Map View

PlanADCP (Basic) : [C:\Program Files\RD Instruments\PlanADCP\sogn.txt]

File Settings View Help

ADVANCED settings changed.

Advanced
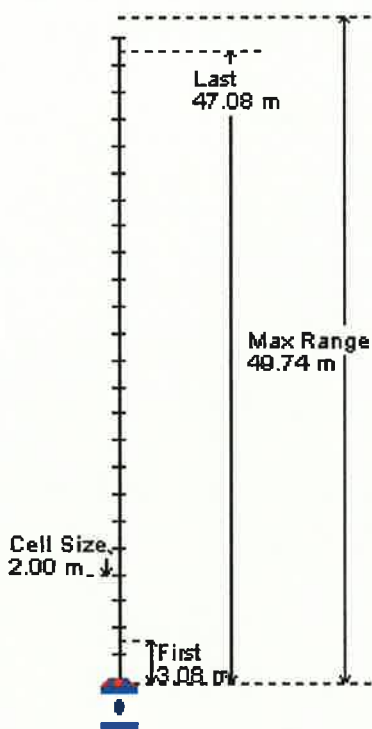
Proposed Setup:

Deployment Duration: 90 days
Ensemble Interval: 00:02:00.00
Salinity: 30 ppt
Temperature: 8 °C
Water Pings: 58
Number of Depth Cells: 23
Depth Cell Size: 2 m

Deployment Consequences:

First Cell Range: 3.08 m
Last Cell Range: 47.08 m
Max Range: 49.74 m
Standard Deviation: 0.47 cm/s
Ensemble Size: 614 bytes
Storage Required: 37.94 MB
Power Usage: 889.41 wh
Battery Pack Usage: 2.0

Notes

SOGN-H
s/n 3694, 600kHz w/ external housing and case from 2275

Max Range
49.74 m

Last
47.08 m

First
3.08 m

Cell Size:
2.00 m

Workhorse Sentinel: 600 kHz/ High Res./ 2 Battery Packs/ Memory: 64 MB

[FM] 49° 50.330' N 124° 52.385' W 10U 3 65 318E 55 22 395N [23:59:11]

Moving map is On

<nmea>

start OziExplorer PlanADCP (Basic) : [C...

EM 23:59 PM

PlanADCP (Basic) : [C:\Program Files\RD Instruments\PlanADCP\sogn.txt]

File   Settings   View   Help

ADVANCED settings changed.

Advanced

Proposed Setup:

Deployment Duration:	90	days
Ensemble Interval:	00:02:00.00	
Salinity:	30	ppt
Temperature:	8	°C
Water Pings:	58	
Number of Depth Cells:	23	
Depth Cell Size:	2	m

Deployment Consequences

First Cell Range:	3.08	m
Last Cell Range:	47.08	m
Max Range:	49.74	m
Standard Deviation:	0.47	cm/s
Ensemble Size:	614	bytes
Storage Required:	37.94	MB
Power Usage:	889.41	Wh
Battery Pack Usage:	2.0	

Last
47.08 m

Max Range
49.74 m

Cell Size.
2.00 m

First
3.08 m

Notes

SOGN-H
s/n 3694, 600kHz w/ external housing and case from 2275

Workhorse Sentinel: 600 kHz/ High Res./ 2 Battery Packs/ Memory: 64 MB

```
>>>>>> Function starting 08/06/10 21:57:02 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>TS100806215704
>CZ

Powering Down

>>>>>> Function starting 08/06/10 21:57:28 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 16.21
RD Instruments (c) 1996-2002
All Rights Reserved.
>CR1
[Parameters set to FACTORY defaults]
>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 = 030 ----------------- Number of depth cells (1-128)
WP = 00045 --------------- Pings per Ensemble (0-16384)
WS = 0200 ---------------- Depth Cell Size (cm)
WV = 175 ----------------- Mode 1 Ambiguity Vel (cm/s radial)

TE = 01:00:00.00 --------- Time per Ensemble (hrs:min:sec.sec/100)
TF = **/**/**,**:**:** --- Time of First Ping (yr/mon/day,hour:min:sec)
TP = 01:20.00 ------------ Time per Ping (min:sec.sec/100)
TS = 10/08/06,21:57:29 --- 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 = 11111 --------------- Coord Transform (Xform: Type,Tilts,3 Bm,Map)
EZ = 1111101 ------------- Sensor Source (C,D,H,P,R,S,T)

CF = 11111 --------------- 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
```

```
                              adcpdeploy.txt
   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 = 10/08/06,21:57:31 --- Time Set (yr/mon/day,hour:min:sec)
   >PS0
      Instrument S/N:   3694
           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  TEMPERATURE
   Temp Sens Offset:   -0.28 degrees C

        CPU Firmware:   16.21 [0]
       Boot Code Ver:   Required:  1.13    Actual:  1.13
        DEMOD #1 Ver:   ad48, Type:  1f
        DEMOD #2 Ver:   ad48, Type:  1f
        PWRTIMG  Ver:   85d3, Type:   4

   Board Serial Number Data:
      C0  00 00 02 FB B2 24  09 CPU727-2000-00H
      77  00 00 02 FB 7B 6A  09 DSP727-2001-03G
      A4  00 00 02 FB 8C 65  09 PIO727-3000-03C
      F4  00 00 02 FB 8E 9D  09 REC727-1000-03E
   >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..........................FAIL
         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
                                          Page 2
```

```
     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
105.76ø   -3.54ø  -25.40ø     Up          23.75øC          24.47øC       0.0 kPa
>RS
RS = 001,060 ------------- 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...
   47   46   46   40

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

>CZ

Powering Down

>>>>>> Function starting 08/06/10 21:59:08 >>>>>>

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

>CZ

Powering Down

>>>>>> Function starting 08/06/10 21:59:38 >>>>>>

[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 #1 is c497-71b7

  No files found.

  Bytes used on device #1 = 0
Total capacity   =    63680512 bytes
```

```
Total bytes used =                 0 bytes in 0 files
Total bytes free =   63680512 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
>ED3250
>ES30
>EX11111
>EZ1111101
>WA50
>WB0
>WD111100000
>WF88
>WN23
>WP58
>WS200
>WV175
>TE00:02:00.00
>TP00:02.00
>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 SOGNH
>CS
```