Mooring Deployment Record

Project Name:	Sog - Amp		
Project Area:	Straight of Georgia		
Mooring Name:	SOGN-N	Station Name	SOGN
Latitude:	49° 50.168'	Longitude:	124° 52.224'
Depth:	~~352~~ 331 datum.	Tide:	Campbell River +4m.
Mag. Declination:		Time Zone:	UTC
Date:	July 15, 2012	Time:	1811 UTC
Remarks:			

Recovery

Date:	Oct. 18, 2012	Time:	1711 UTC
Remarks:			

Instruments

Type	Serial #	Depth	Time In:	Time Out	Notes
SBE 19+	6027	47.6m.			
RCM 11	39	49.2m			Get new case corrosion.
SBE 16+	4196	146m.			
					with O2 Sensor 432280
WH600	1820	281 m			
SBE37	3501	321 m.			

Releases

Release	Serial #	Range:	Release	~~Freq~~ Diag.	Other
AR861	740	16BA.	1655	1649	

Pingers

Pinger	Serial #	Voltage	Freq
Helle	7801	18.9 V100	27 kHz
"	9765	19.7 V100	

Flotation

Type	Serial #	Size	Colour	Type	Serial #	Size	Colour
SS 30	3007	30"	yellow.				
SS30	3005	"	"				
SS28	M232	28"	"				
"	208	"	"				

RCM 11 Deployment Sheet

Instrument Serial #: 39 # of Channels: 6 Recording Interval: 30
Project: _____ DSU ID: 15059 File ID: 39 -SOGN - N

Pressure Sensor:
Type: 3815C
Range: ~~7000kPa~~ 60mPA
Serial #: 730

Conductivity Cell:
Type: 3819
Range: 24-38 mS
Serial #: 24

Temperature Sensor:
Type: 3621
Range: ~~Arctic~~ Low
Serial #: _____

Doppler Current Sensor:
Type: SR10
Serial #: 32

MAX DEPTH: 736m (7000kPa pressure sensor)

current
temp

Channel #	Reading1	Reading 2	Last Cal
1. Reference	652		
2. ~~Temperature~~	0		
3. ~~Conductivity~~	0		
4. ~~Extemp/pressure~~	1023		
5. ~~Direction~~ COND	415		
6. ~~Speed~~ pressure	31		
Date: July 15, 2012 Time:	0300UTC		

Channel #	Reading1	Reading 2	Last Cal
1. Reference	652	652	
2. Temperature	91	42	
3. Conductivity	403	130	
4. Extemp/pressure	853	939	
5. Direction	1023	1023	
6. Speed	32	31	
Date: Oct 18, 2012 Time:	2230	2300	

TIME IN WATER: ____ DATE: July 15, 2012
BAT VOLTAGE: ____ ON DEPLOYMENT
CRUISE ID: 2012-57 DEPLOYED
TECHNICIAN: LP

TIME OUT WATER: ____ DATE: Oct 18, 2012
BAT VOLTAGE: 8.03 ON RECOVERY
CRUISE ID: 2012-71 RECOVERED
TECHNICIAN: LP

NOTES: Get a new case for this instrument. LP.

28182 samples

- evidence of leakage on inside of case. Green corrosion on inside & bottom

ADCP Deployment Sheet

INSTRUMENT

Serial Number: 1820

Pressure Sensor: ✓

Model: 600

Depth Rating:

Batteries: 2

PARAMETERS

Number of Pings (WP): 200

Bin Size (WS): 2

Ensemble Interval (TE): 15 mins

Number of Bins (WN): 29

Time between Pings (TP): 9.5

Mode 1 Bandwidth (WB): 0

Profiling Mode (WM):

Pre-deployment tests: ✓

Time Zone: UTC

Compass Calibration: X

Start (TF): July 15, 2012 @ 2000 UTC

DEPLOYMENT

Station: SOAN-N

Cruise Number: 2012-57

Latitude:

Water Depth:

Longitude:

Instrument Depth:

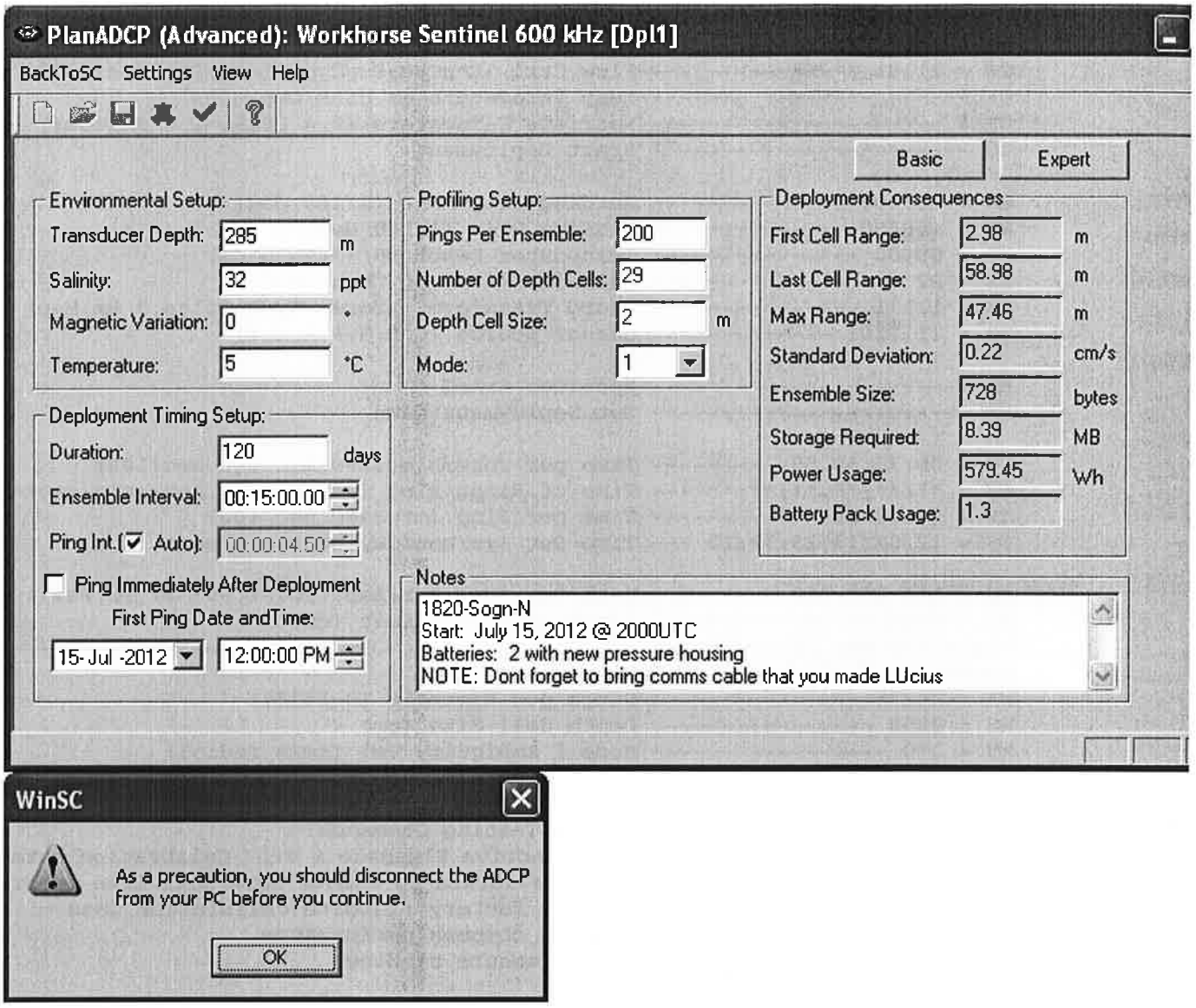
Time and Date in Water:

Comments: this unit is using the type 06 cojoined pressure housing. Needs special comms cable.

Completed by: LP

Date: 2012/14/07

~~ADCP dep.xls SFM~~




```
>>>>>> Function starting 07/13/12 23:32:03 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 50.38
Teledyne RD Instruments (c) 1996-2010
All Rights Reserved.
>TS120713233206
>CZ

Powering Down

>>>>>> Function starting 07/13/12 23:32:11 >>>>>>

[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 50.38
Teledyne RD Instruments (c) 1996-2010
All Rights Reserved.
```

```
>DEPLOY?
Deployment Commands:
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

EA = +00000 --------------- Heading Alignment (1/100 deg)
EB = +00000 --------------- Heading Bias (1/100 deg)
ED = 00400 ---------------- Transducer Depth (0 - 65535 dm)
ES = 32 ------------------- 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)

RE ------------------------ Recorder ErAsE
RN ------------------------ Set Deployment Name

TE = 00:30:00.00 ---------- Time per Ensemble (hrs:min:sec.sec/100)
TF = **/**/**,**:**:** ---- Time of First Ping (yr/mon/day,hour:min:sec)
TP = 00:10.28 ------------- Time per Ping (min:sec.sec/100)
TS = 12/07/13,23:32:13 ---- Time Set (yr/mon/day,hour:min:sec)

WD = 111 100 000 ---------- Data Out (Vel,Cor,Amp; PG,St,P0; P1,P2,P3)
WF = 0088 ----------------- Blank After Transmit (cm)
Press any key to continue                    WN = 090 -----------------
Number of depth cells (1-128)
WP = 00175 ---------------- Pings per Ensemble (0-16384)
WS = 0050 ----------------- Depth Cell Size (cm)
WV = 170 ------------------ Mode 1 Ambiguity Vel (cm/s radial)

>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
```

MicroCat SBE 37 Deployment Sheet

INSTRUMENT

Serial Number: 3501 Sensors (C,T,P): _____

Firmware Version: 2.6b Depth Rating: _____

PARAMETERS

SampleNum: 0 Storetime: Y

Interval: 600 Syncmode: N

Navg/Ncycles: 4 Txrealtime: N

Reference pressure*: _____ OutputSV: ~~N~~ Y

Time Zone: UTC OutputSal: Y

Start: July 15, 2012 @ 2000 UTC

*only needed if there is no pressure sensor for the salinity calculation

DEPLOYMENT

Station: SOG-N - N Cruise Number: 2012-57

Latitude: _____ Water Depth: _____

Longitude: _____ Instrument Depth: _____

Time and Date in Water: _____

Comments: _____

Completed by: _____ Date: _____

~~uCat dep.xls SFM~~

Mooring: SOGN-N
UCats X 1
Serial 3501 - no pump

Battery Calculations:

Sampling Time:
3.33s+(2.27*(NAVG-1))
3.33s+(2.27*(4-1))=10.14s

Example 1: A standard MicroCAT (no external power option) with pressure sensor is set up to sample autonomously every 10 minutes (6 samples/hour), taking 4 measurement per sample (**NAVG=4**). How long can it be deployed?

Sampling time = 3.33 seconds + 2.27 seconds * (**NAVG** - 1) = 10.14 seconds

Sampling current consumption = 0.020 amps * 10.14 seconds = 0.2 amp-seconds/sample
In 1 hour, sampling current consumption = 6 * 0.2 amp-seconds/sample = 1.2 amp-seconds/hour
Pump current consumption = 0.13 amp-seconds/pulse
In 1 hour, pump current consumption = 6 * 0.13 amp-seconds/pulse = 0.78 amp-seconds/hour
Quiescent current 10 microamps = 0.01 mA
In 1 hour, quiescent current consumption = 0.01 mA * 3600 seconds/hour = 0.036 amp-seconds/hour
Total current consumption / hour = 1.2 + 0.78 + 0.036 = 2.02 amp-seconds/hour
Capacity = (5 amp-hours * 3600 seconds/hr) / (2.02 amp-seconds/hour) = 8910 hours = 371 days = 1.02 years
Number of samples = 8910 hours * 6 samples/hour = 53460 samples

Command Summary:
DDMMYY=140712
HHMMSS=20000 //(UTC)
OUTPUTSAL=Y
OUTPUTSV=Y
FORMAT=1
NAVG=4
PUMPINSTALLED=N
SAMPLENUM=0
INTERVAL=600
//REFPRESS= 325 (x = pressure at which the instrument is at...only used if there is no pressure sensor installed)