

Mooring Deployment Record

Project Name: <i>SO6-Amp</i>	
Project Area: <i>Straight of Georgia</i>	
Mooring Name: <i>SO6-N-2M</i>	Station Name: <i>SO6-N</i>
Latitude: <i>49°50.175'</i>	Longitude: <i>124°52.237'</i>
Depth: <i>332</i> <i>datum = 330.</i>	Tide: <i>+4 m Comox. + Blubber Bay</i>
Mag. Declination:	Time-Zone: <i>UTC</i>
Date: <i>April 3, 2012</i>	Time: <i>2120 UTC</i>
Remarks:	

Recovery

Date: <i>July 15, 2012</i>	Time: <i>0757 PDT.</i>
Remarks: <i>without incident - on deck 0826 PDT.</i>	

Instruments

Type	Serial #	Depth	Time In:	Time Out	Notes
<i>Baker</i>	<i>718125</i>	<i>46</i>			
<i>SBE19+</i>	<i>6026</i>	<i>47.6</i>			
<i>Rm11</i>	<i>564</i>	<i>48.2</i>			<i>has New Cage</i>
<i>SBE16+</i>	<i>4197</i>	<i>145</i>			
<i>WH600</i>	<i>3720</i>	<i>280</i>			<i>Single internal no external pack</i>
<i>SBE3T</i>	<i>850X530</i>	<i>320.</i>			
<i>BBR</i>		<i>3</i>			

Releases

Release	Serial #	Range:	Release	<i>Diagnostic</i> Erec	Other
<i>AR861</i>	<i>734</i>	<i>16B4</i>	<i>16B4+1655</i>	<i>16B4+1649</i>	

Pingers

Pinger	Serial #	Voltage	Freq
<i>Helle</i>	<i>6397</i>	<i>19.3</i>	<i>27 kHz 1/4 watt</i>
<i>Helle</i>	<i>6393</i>	<i>19.9</i>	<i>"</i>

Flotation

Type	Serial #	Size	Colour	Type	Serial #	Size	Colour
<i>SS30</i>	<i>3007</i>	<i>30"</i>	<i>yellow.</i>				
<i>"</i>	<i>3005</i>	<i>"</i>	<i>"</i>				
<i>SS28</i>	<i>M232</i>	<i>28"</i>	<i>"</i>				
<i>"</i>	<i>208</i>	<i>28"</i>	<i>"</i>				

RCM 11 Deployment Sheet

Instrument Serial #: 564 # of Channels: 6 Recording Interval: 30

Project: _____ DSU ID: 12364

file: 564-SOGN-M

Pressure Sensor:

Type: 3815C

Range: 7000 kPa 20000 kPa

Serial #: 125

Conductivity Cell:

Type: 3819

Range: 24 mS

Serial #: _____

Temperature Sensor:

Type: 3621

Range: Arctic

Serial #: 2214

Doppler Current Sensor:

Type: SR10

Serial #: 274

MAX DEPTH: 736m (7000kPa pressure sensor) 2000 m

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>757</u>		
2. Temperature <u>speed</u>	<u>0</u>		
3. Conductivity <u>DIR</u>	<u>0</u>		
4. Extemp/pressure	<u>1006</u>		
5. Direction <u>conduct</u>	<u>0</u>		
6. Speed <u>pressure</u>	<u>5</u>		
Date: <u>March 24, 2012</u> Time: <u>2100 UTC</u>			

Channel #	Reading1	Reading 2	Last Cal
1. Reference	<u>757</u>		
2. Temperature	<u>23</u>		
3. Conductivity	<u>189</u>		
4. Extemp/pressure	<u>941</u>		
5. Direction	<u>0</u>		
6. Speed	<u>0</u>		
Date: <u>July 15, 2012</u> Time: <u>1732</u>			

TIME IN WATER: _____ DATE: _____
BAT VOLTAGE: 9.64 ON DEPLOYMENT
CRUISE ID: 2012-19 DEPLOYED
TECHNICIAN: LP

TIME OUT WATER: 1426 DATE: July 15, 1426 UTC
BAT VOLTAGE: 8.34 ON RECOVERY
CRUISE ID: 2012-57 RECOVERED
TECHNICIAN: LP

NOTES:

has a nice new cage.

3710

ADCP Deployment Sheet

INSTRUMENT

Serial Number: 3720

Pressure Sensor: _____

Model: 600 kHz

Depth Rating: 500 m

Batteries: 1x Internal

PARAMETERS

Number of Pings (WP): 103

Bin Size (WS): 2 m

Ensemble Interval (TE): 0.5 mins

Number of Bins (WN): _____

Time between Pings (TP): 15 mins

Mode 1 Bandwidth (WB): WB0

Profiling Mode (WM): W

Pre-deployment tests: yes

Time Zone: UTC

Compass Calibration: yes

Start (TF): April 2, 2017 @ 2000 UTC

DEPLOYMENT

Station: SOAN-M

Cruise Number: 2012-19

Latitude: _____

Water Depth: _____

Longitude: _____

Instrument Depth: _____

Time and Date in Water: _____

Comments:

CB=211

No external pack. Be sure to remember y-cable
+ Body bands for cage to house external pack.

Completed by: _____

Date: _____

ADCP-dep.xls SFM

3720 - 600kHz
Sogn-m

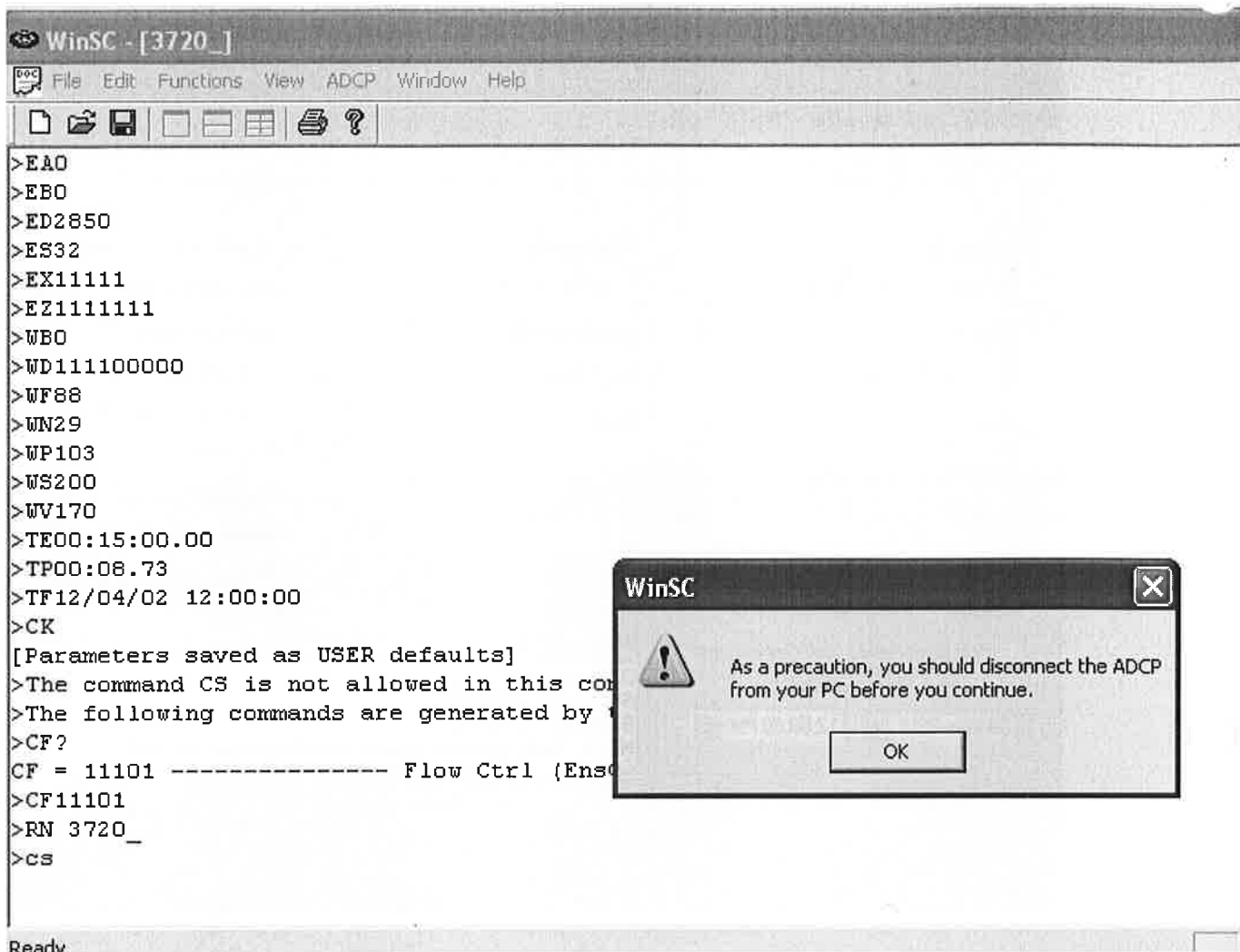
PlanADCP (Advanced): Workhorse Sentinel 600 kHz [Dpl1]

BackTo5C Settings View Help

Icons: [File] [Print] [Save] [Run] [Check] [Help]

Basic		Expert	
Environmental Setup:			
Transducer Depth:	285	m	
Salinity:	32	ppt	
Magnetic Variation:	0	°	
Temperature:	5	°C	
Profiling Setup:			
Pings Per Ensemble:	103		
Number of Depth Cells:	29		
Depth Cell Size:	2	m	
Mode:	1		
Deployment Consequences			
First Cell Range:	2.98	m	
Last Cell Range:	58.98	m	
Max Range:	47.46	m	
Standard Deviation:	0.30	cm/s	
Ensemble Size:	728	bytes	
Storage Required:	8.39	MB	
Power Usage:	299.84	Wh	
Battery Pack Usage:	0.7		
Deployment Timing Setup:			
Duration:	120	days	
Ensemble Interval:	00:15:00.00		
Ping Int. (✓ Auto):	00:00:08.73		
☐ Ping Immediately After Deployment			
First Ping Date and Time:			
	29-Mar-2012	12:00:00 PM	
Notes			
3720-sogn-l Start April 2, 2000UTC Batteries: 1 x internal. NOTE: Body bands for external case have been removed.			

CR1
CF11101
EA0
EB0
ED2850
ES32
EX11111
EZ1111111
WB0
WD111100000
WF88
WN29
WP103
WS200
WV170
TE00:15:00.00
TP00:08.73
TF12/04/02 12:00:00
CK
CS



MicroCat SBE 37 Deployment Sheet

INSTRUMENT

Serial Number: 5307

Sensors (C,T,P): CTP ✓

Firmware Version: 2.6b

Depth Rating: 1450 PSI

PARAMETERS

SampleNum: 0

Storetime: Y

Interval: 600 s

Syncmode: N

Navg/Ncycles: 4

Txrealtime: N

Reference pressure*: Sensor

OutputSV: N Y

Time Zone: UTC

OutputSal: Y

Start: April 3, 2012 @ 2000 UTC

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

DEPLOYMENT

Station: _____

Cruise Number: _____

Latitude: _____

Water Depth: _____

Longitude: _____

Instrument Depth: _____

Time and Date in Water: _____

Comments: Attached to RBR in new cage

Completed by: _____ Date: _____

uCat dep.xls SFM

Mooring: SOGS-M

UCats X 1

Serial 5307 - new cal, pump/Attached to RBR in new cage

Battery Calculations:

Sampling Time:

$$3.33s + (2.27 * (NAV G - 1))$$

$$3.33s + (2.27 * (4 - 1)) = 10.14s$$

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 (**NAV G=4**). How long can it be deployed?

Sampling time = 3.33 seconds + 2.27 seconds * (**NAV G** - 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=020412

HHMMSS=20000 //(UTC)

OUTPUTSAL=Y

OUTPUTSV=Y

FORMAT=1

NAV G=4

PUMPINSTALLED=Y

SAMPLENUM=0

INTERVAL=600

//REFPRESS= 325 (x = pressure at which the instrument is at...only used if there is no pressure sensor installed)