

Mooring Deployment Record

Project Name: <u>Soa - AMP</u>	
Project Area: <u>Straight of Georgia</u>	
Mooring Name: <u>SOAS-K</u>	Station Name: <u>SOAS</u>
Latitude: <u>49 01.426</u>	Longitude: <u>123 25.815</u>
Depth: <u>316m 315m - 3m = 312m datum</u>	Tide: <u>+3m Tide Sand Heads</u>
Mag. Declination:	Time Zone: <u>UTC</u>
Date: <u>August 7, 2011</u>	Time: <u>1800</u>
Remarks:	

Recovery

Date: <u>Nov. 25, 2011</u>	Time: <u>1536</u> (Time?)
Remarks:	

Instruments

Type	Serial #	Depth	Time In:	Time Out	Notes
Baker.	718105	50 → 52m			
SBE19+	6026	51.6 → 53.6			
Nortek	0958	52.6 → 55.6			RS-232/Lithium
SBE16+	4197	150 → 152			
Nortek	2649	300 → 302			RS-422/Lithium DW
SBE37	1614				no pump
RBR	17084				All three @ same D

Releases

Release	Serial #	Range:	Release	Freq	Other
AR 861	738	1688	1655	12kHz	1649

Pingers

Argos 20920

Pinger	Serial #	Voltage	Freq
Helle	7495	19.3	27 kHz
Helle	6397	19.3	"

Flotation

Type	Serial #	Size	Colour	Type	Serial #	Size	Colour
SB 30	3016	30"	yellow				
"	3013	"	"				
"	3002	"	"				

```
SBE 19plus
S>*ds
SCP16, 6026, 2.2c, 5890, 3, 21, N
S>time out
SBE 19plus
S>ds
SBE 19plus V 2.2c SERIAL NO. 6026 07 Aug 2011 08:24:56
vbatt = 13.9, vlith = 8.6, ioper = 62.5 ma, ipump = 48.4 ma,
iext01 = 39.8 ma, iext2345 = 0.3 ma
status = not logging
sample interval = 1800 seconds, number of measurements per sample = 4
samples = 5890, free = 3127354
mode = moored, run pump during sample, delay before sampling = 5.0 seconds
transmit real-time = no
battery type = alkaline, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 508.0
SBE 38 = no, OPTODE = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = yes
Ext Volt 2 = yes, Ext Volt 3 = no
Ext Volt 4 = no, Ext Volt 5 = no
echo characters = yes
output format = raw HEX
S>setting time to a date/time to utc
<ERROR type='INVALID COMMAND' msg='RCVD:setting date/time to utc'/>
S>ddmmyy=070811
570894B016F37108D7B649C50411056E000215CF2B
S>mmddyy=080711
S>hhmmss=162710
S>ds
SBE 19plus V 2.2c SERIAL NO. 6026 07 Aug 2011 16:27:11
vbatt = 13.8, vlith = 8.6, ioper = 62.5 ma, ipump = 47.2 ma,
iext01 = 39.4 ma, iext2345 = 0.4 ma
status = not logging
sample interval = 1800 seconds, number of measurements per sample = 4
samples = 5890, free = 3127354
mode = moored, run pump during sample, delay before sampling = 5.0 seconds
transmit real-time = no
battery type = alkaline, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 508.0
SBE 38 = no, OPTODE = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = yes
Ext Volt 2 = yes, Ext Volt 3 = no
Ext Volt 4 = no, Ext Volt 5 = no
echo characters = yes
output format = raw HEX
S>ds
SBE 19plus V 2.2c SERIAL NO. 6026 07 Aug 2011 16:28:58
vbatt = 13.8, vlith = 8.6, ioper = 62.5 ma, ipump = 54.9 ma,
iext01 = 39.3 ma, iext2345 = 0.5 ma
status = not logging
sample interval = 1800 seconds, number of measurements per sample = 4
samples = 5890, free = 3127354
mode = moored, run pump during sample, delay before sampling = 5.0 seconds
transmit real-time = no
battery type = alkaline, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 508.0
SBE 38 = no, OPTODE = no, Gas Tension Device = no
```

```

Ext Volt 0 = yes, Ext Volt 1 = yes
Ext Volt 2 = yes, Ext Volt 3 = no
Ext Volt 4 = no, Ext Volt 5 = no
echo characters = yes
output format = raw HEX
S>ts
05CD950B556008298F55190431055F000015D179D8
S>outputformat=3
S>ts
  20.2807,  0.00858,    0.009, 0.0831, 0.1045, 0.0003, 07 Aug 2011 16:29:29
S>ts
  20.3692,  0.00850,    0.008, 4.9379, 4.8984, 0.0002, 07 Aug 2011 16:29:50
S> ote:note: this one is logging channel 2 but I'm just going to leave
it because hwe hlots of space
<ERROR type='INVALID COMMAND' msg='RCVD: note: this one is logging channel 2
but i'm just going to leave it because we lots of space'/>
S>initlogging
this command will change the scan length and/or initialize logging
repeat the command to verify
initlogging
S>ds
SBE 19plus V 2.2c SERIAL NO. 6026    07 Aug 2011 16:31:28
vbatt = 13.8, vlith = 8.6, ioper = 62.5 ma, ipump = 52.9 ma,
iext01 = 40.9 ma, iext2345 = 0.4 ma
status = not logging
sample interval = 1800 seconds, number of measurements per sample = 4
samples = 0, free = 3133244
mode = moored, run pump during sample, delay before sampling = 5.0 seconds
transmit real-time = no
battery type = alkaline, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 508.0
SBE 38 = no, OPTODE = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = yes
Ext Volt 2 = yes, Ext Volt 3 = no
Ext Volt 4 = no, Ext Volt 5 = no
echo characters = yes
output format = converted decimal
output salinity = no, output sound velocity = no
S>outputformat=1
S>ds
SBE 19plus V 2.2c SERIAL NO. 6026    07 Aug 2011 16:32:20
vbatt = 13.8, vlith = 8.6, ioper = 62.5 ma, ipump = 53.9 ma,
iext01 = 40.1 ma, iext2345 = 0.4 ma
status = not logging
sample interval = 1800 seconds, number of measurements per sample = 4
samples = 0, free = 3133244
mode = moored, run pump during sample, delay before sampling = 5.0 seconds
transmit real-time = no
battery type = alkaline, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 508.0
SBE 38 = no, OPTODE = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = yes
Ext Volt 2 = yes, Ext Volt 3 = no
Ext Volt 4 = no, Ext Volt 5 = no
echo characters = yes
output format = converted HEX
S>startddmmy=070811

```

S>starthhmmss=200000

S>ds

SBE 19plus V 2.2c SERIAL NO. 6026 07 Aug 2011 16:33:09

vbatt = 13.8, vlith = 8.6, ioper = 62.4 ma, ipump = 51.8 ma,

iext01 = 39.9 ma, iext2345 = 0.3 ma

status = not logging

sample interval = 1800 seconds, number of measurements per sample = 4

samples = 0, free = 3133244

mode = moored, run pump during sample, delay before sampling = 5.0 seconds

transmit real-time = no

battery type = alkaline, battery cutoff = 7.5 volts

pressure sensor = strain gauge, range = 508.0

SBE 38 = no, OPTODE = no, Gas Tension Device = no

Ext Volt 0 = yes, Ext Volt 1 = yes

Ext Volt 2 = yes, Ext Volt 3 = no

Ext Volt 4 = no, Ext Volt 5 = no

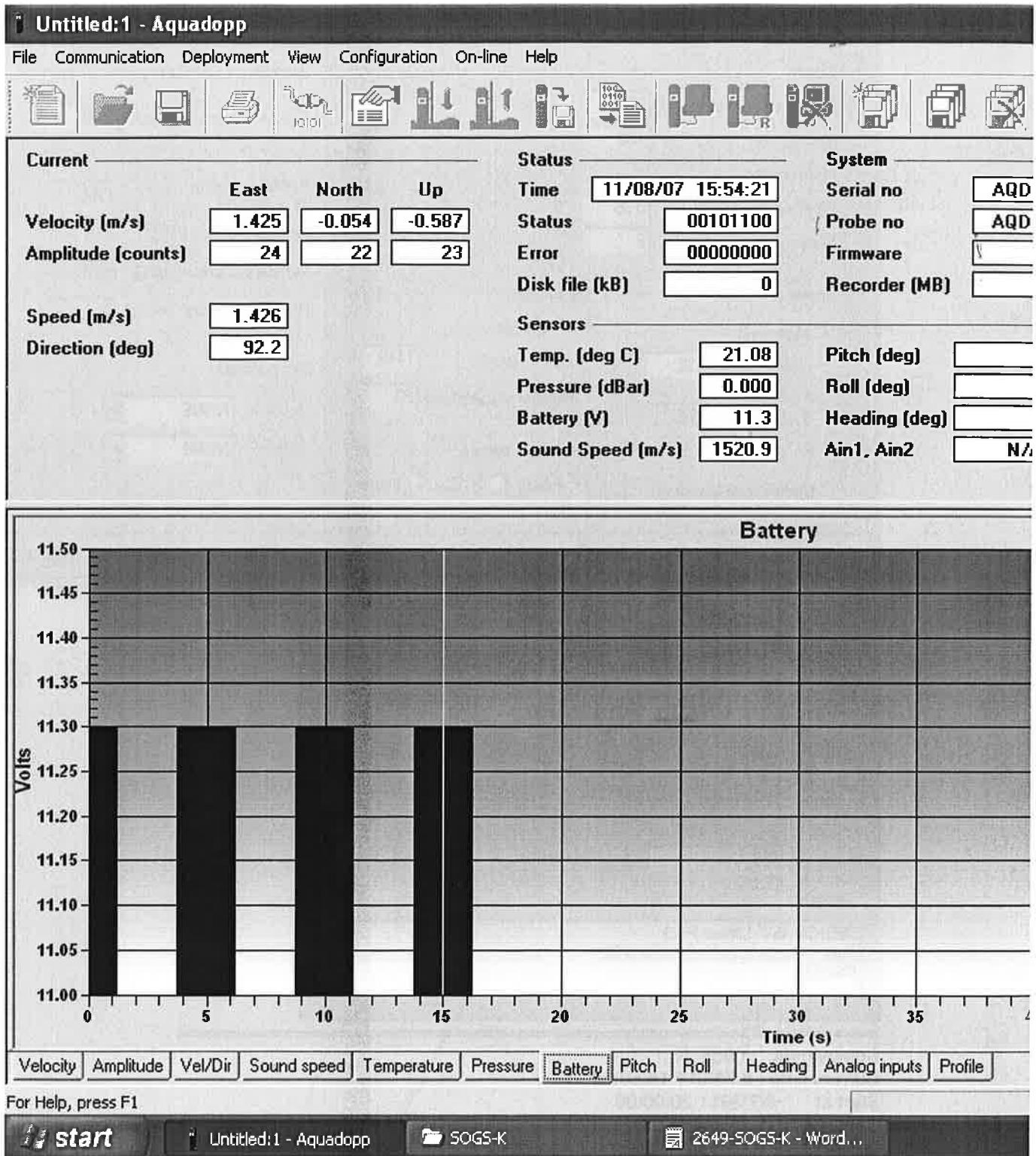
echo characters = yes

output format = converted HEX

S>startlater

start logging at = 07 Aug 2011 20:00:00, sample interval = 1800 seconds

0958-sogs-k lithium pack, rs232



Deployment Planning

Standard | **Advanced** | Inductive Modem

Setup

Measurement interval (s): 600 ☐ 4 Hz
 Average interval (s): 120
 Measurement load (%): 4 ☒ Auto
 Blanking dist. (m): 0.35
 Compass upd. rate (s): 2

Power level

High
 Low
☐ File wrapping

Deployment planning

Assumed duration (days): 120
 Battery utilization (% of 50 Wh): 166
 Memory required (MB): 0.8
 Vertical vel. prec. (cm/s): 1.7
 Horizont. vel. prec. (cm/s): 1

Speed of sound

☒ Measured
 Salinity (ppt): 32
☐ Fixed (m/s): 1525

Diagnostics

☒ Enable
 Interval (min): 1440
 Number of samples: 20

Coordinate system

☒ ENU ☐ XYZ ☐ Beam

External inputs

Input 1: NONE
 Input 2: NONE
☐ Output power

Update from Standard

Start Update OK Cancel Apply Help

Deployment

☒ Start At: 8/ 7/2011 20:00:00 OK
☐ Start Now! Cancel

☐ Enable serial output / TellTale

Name: 0958_K (max 6 char's)
 Comments: (max 120 char's)
 0958-SOGS-K Lithium Pack
 Start: August 7, 2011 @ 2000 UTC
 RS232

Deployment : 0958_K
 Current time : 8/7/2011 15:56:28
 Start at : 8/7/2011 20:00:00
 Comment:
 0958-SOGS-K Lithium Pack
 Start: August 7, 2011 @ 2000 UTC
 RS232

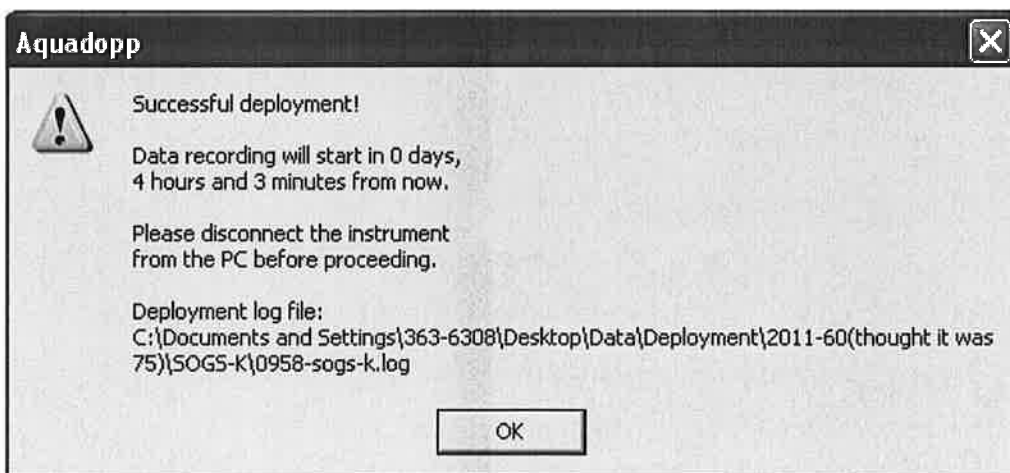
Measurement interval (s) : 600

Average interval (s) : 120
Blanking distance (m) : 0.35
Measurement load (%) : 4
Power level : HIGH
Diagnostics interval(min) : 1440
Diagnostics samples : 20
Compass upd. rate (s) : 2
Coordinate System : ENU
Speed of sound (m/s) : MEASURED
Salinity (ppt) : 32
Analog input 1 : NONE
Analog input 2 : NONE
Analog input power out : DISABLED
File wrapping : OFF
Serial output/TellTale : OFF

Assumed duration (days) : 120.0
Battery utilization (%) : 166.0
Battery level (V) : 11.3
Recorder size (MB) : 25
Recorder free space (MB) : 24.973
Memory required (MB) : 0.8
Vertical vel. prec (cm/s) : 1.7
Horizon. vel. prec (cm/s) : 1.0

Instrument ID : AQD 0958
Head ID : AQD 0624
Firmware version : 1.13

Aquadopp Version 1.31
Copyright (C) Nortek AS



S>ds

SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 09:43:02
vbatt = 13.8, vlith = 8.7, ioper = 62.4 ma, ipump = 75.3 ma,
iext01 = 5.1 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 2357, free = 490608
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = no, Ext Volt 2 = no, Ext Volt 3 = no
echo commands = yes
output format = raw HEX

S>dh

hdr 1 05 Apr 2011 16:00:01 samples 1 to 999, int = 4500, stop = logging
hdr 2 27 May 2011 18:00:40 samples 1001 to 1999, int = 4500, stop = logging
hdr 3 18 Jul 2011 20:00:40 samples 2001 to 2357, int = 4500, stop = stop cmd

S>dcal

SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 09:43:10

temperature: 10-sep-10

TA0 = 1.175077e-03

TA1 = 2.835483e-04

TA2 = -2.215886e-06

TA3 = 2.239497e-07

TOFFSET = 0.000000e+00

conductivity: 10-sep-10

G = -9.893223e-01

H = 1.435395e-01

I = -4.598390e-04

J = 5.513806e-05

CF0 = 2.632691e+03

CPCOR = -9.570000e-08

CTCOR = 3.250000e-06

CSLOPE = 1.000000e+00

pressure S/N = 1181, range = 1450 psia: 07-sep-10

PA0 = 1.884208e-01

PA1 = 4.441794e-03

PA2 = -1.699950e-11

PTCA0 = 5.218090e+05

PTCA1 = 2.248812e+00

PTCA2 = -1.183399e-02

PTCB0 = 2.487237e+01

PTCB1 = 1.475000e-03

PTCB2 = 0.000000e+00

PTempa0 = -8.007963e+01

PTempa1 = 4.653020e+01

PTempa2 = -4.160928e-02

POFFSET = 0.000000e+00

volt 0: offset = -4.634667e-02, slope = 1.248443e+00

volt 1: offset = -4.653000e-02, slope = 1.248095e+00

volt 2: offset = -4.658333e-02, slope = 1.248916e+00

volt 3: offset = -4.643000e-02, slope = 1.249799e+00

EXTFREQSF = 1.000021e+00

S>ds


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SeacatPlus V 1.3a  SERIAL NO. 4197    07 Aug 2011  09:43:16
vbatt = 13.9, vlith = 8.7, ioper = 62.4 ma, ipump = 75.3 ma,
iext01 = 4.9 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 2357, free = 490608
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = no, Ext Volt 2 = no, Ext Volt 3 = no
echo commands = yes
output format = raw HEX
S>outputputformat=3
S>ts
20.9064, 0.00319, -1.451, 2.7068, 0.0224, 07 Aug 2011, 09:44:08
S>tv
2.7073 0.0000 0.0000 0.0000
2.7074 0.0000 0.0001 0.0001
2.7076 0.0001 0.0000 0.0000
2.7081 0.0000 0.0001 0.0002
2.7073 0.0001 0.0002 0.0001
2.7072 0.0001 0.0000 0.0000
2.7076 0.0000 0.0002 0.0000
2.7078 0.0002 0.0000 0.0000
2.7074 0.0000 0.0000 0.0000
2.7078 0.0000 0.0002 0.0002
2.7079 0.0000 0.0001 0.0001
2.7075 0.0001 0.0002 0.0000
2.7074 0.0002 0.0000 0.0000
2.7071 0.0001 0.0001 0.0000
2.7075 0.0002 0.0001 0.0000
2.7078 0.0000 0.0000 0.0000
2.7073 0.0002 0.0002 0.0000
2.7079 0.0001 0.0000 0.0002
2.7074 0.0001 0.0000 0.0000
2.7081 0.0004 0.0001 0.0001
2.7078 0.0000 0.0001 0.0006
2.7071 0.0000 0.0000 0.0000
2.7078 0.0001 0.0002 0.0000
2.7079 0.0002 0.0002 0.0001
2.7074 0.0000 0.0001 0.0002
2.7076 0.0000 0.0000 0.0003
2.7076 0.0002 0.0000 0.0000
2.7076 0.0002 0.0000 0.0000
2.7074 0.0000 0.0000 0.0001
2.7074 0.0000 0.0002 0.0000
2.7079 0.0000 0.0002 0.0000
2.7076 0.0000 0.0001 0.0000
2.7077 0.0001 0.0002 0.0000
2.7073 0.0001 0.0001 0.0000
2.7079 0.0002 0.0001 0.0000
2.7073 0.0003 0.0000 0.0000
2.7076 0.0000 0.0000 0.0000
2.7076 0.0000 0.0000 0.0000
2.7078 0.0002 0.0000 0.0002

```

2.7080	0.0000	0.0003	0.0000
2.7074	0.0000	0.0002	0.0001
2.7077	0.0002	0.0001	0.0000
2.7072	0.0001	0.0002	0.0001
2.7081	0.0000	0.0004	0.0003
2.7080	0.0002	0.0001	0.0000
2.7082	0.0002	0.0001	0.0000
2.7076	0.0000	0.0005	0.0002
2.7076	0.0002	0.0001	0.0003
2.7079	0.0000	0.0002	0.0000
2.7082	0.0000	0.0000	0.0000
2.7086	0.0000	0.0004	0.0000
2.7083	0.0001	0.0001	0.0000
2.7078	0.0000	0.0002	0.0000
2.7079	0.0002	0.0001	0.0000
2.7078	0.0000	0.0000	0.0000
2.7075	0.0000	0.0000	0.0000
2.7080	0.0002	0.0000	0.0001
2.7074	0.0000	0.0002	0.0000
2.7082	0.0000	0.0001	0.0002
2.7076	0.0000	0.0000	0.0002
2.7083	0.0004	0.0002	0.0002
2.7076	0.0000	0.0000	0.0002
2.7079	0.0000	0.0002	0.0002
2.7075	0.0001	0.0001	0.0000
2.7078	0.0003	0.0001	0.0000
2.7080	0.0001	0.0001	0.0001
2.7079	0.0001	0.0002	0.0001
2.7076	0.0000	0.0002	0.0000
2.7085	0.0001	0.0005	0.0001
2.7078	0.0000	0.0000	0.0001
2.7078	0.0002	0.0002	0.0003
2.7084	0.0000	0.0003	0.0000
2.7083	0.0001	0.0000	0.0000
2.7081	0.0000	0.0000	0.0000
2.7083	0.0002	0.0004	0.0002
2.7081	0.0000	0.0000	0.0002
2.7083	0.0002	0.0003	0.0000
2.7078	0.0002	0.0000	0.0000
2.7084	0.0000	0.0002	0.0000
2.7075	0.0003	0.0000	0.0000
2.7085	0.0003	0.0000	0.0000
2.7079	0.0000	0.0001	0.0000
2.7079	0.0003	0.0000	0.0002
2.7078	0.0002	0.0001	0.0000
2.7075	0.0002	0.0001	0.0002
2.7075	0.0000	0.0000	0.0000
2.7080	0.0000	0.0001	0.0000
2.7075	0.0004	0.0000	0.0000
2.7076	0.0002	0.0004	0.0000
2.7081	0.0002	0.0000	0.0000
2.7074	0.0001	0.0000	0.0000
2.7078	0.0000	0.0001	0.0000
2.7082	0.0000	0.0002	0.0000
2.7079	0.0000	0.0000	0.0000
2.7079	0.0002	0.0000	0.0000
2.7076	0.0000	0.0000	0.0000

2.7078	0.0000	0.0000	0.0001
2.7078	0.0002	0.0000	0.0002
2.7084	0.0000	0.0001	0.0000
2.7072	0.0000	0.0001	0.0000

S>ds

SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 09:44:23
vbatt = 13.8, vlith = 8.7, ioper = 62.4 ma, ipump = 71.6 ma,
iext01 = 4.8 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 2357, free = 490608
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = no, Ext Volt 2 = no, Ext Volt 3 = no
echo commands = yes
output format = converted decimal
output salinity = yes, output sound velocity = no
S>ddmmyy=070811
S>hhmmss=164415

S>ds

SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 16:44:16
vbatt = 13.9, vlith = 8.7, ioper = 62.4 ma, ipump = 73.9 ma,
iext01 = 4.6 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 2357, free = 490608
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = no, Ext Volt 2 = no, Ext Volt 3 = no
echo commands = yes
output format = converted decimal
output salinity = yes, output sound velocity = no
S>initlogging

S>ds

SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 16:44:27
vbatt = 13.9, vlith = 8.7, ioper = 62.3 ma, ipump = 73.0 ma,
iext01 = 4.8 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 0, free = 492965
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = no, Ext Volt 2 = no, Ext Volt 3 = no
echo commands = yes
output format = converted decimal
output salinity = yes, output sound velocity = no
S>volt1=y
this command will change the scan length and initialize logging

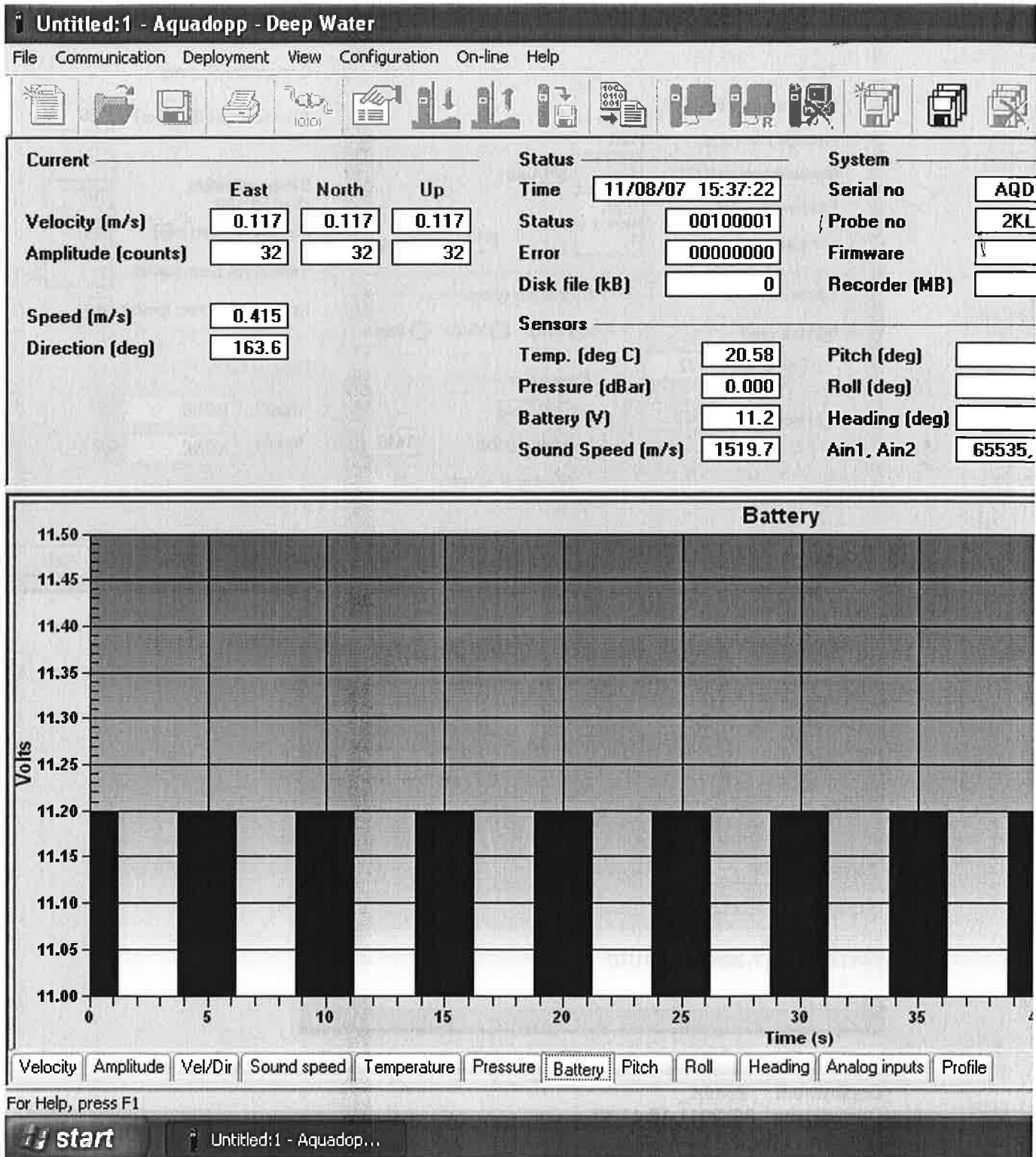
```

proceed Y/N ? y
scan length has changed, initializing logging
S>ds
SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 16:45:07
vbatt = 13.9, vlith = 8.7, ioper = 62.3 ma, ipump = 74.6 ma,
iext01 = 4.5 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 0, free = 441074
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = yes, Ext Volt 2 = no, Ext Volt 3 = no
echo commands = yes
output format = converted decimal
output salinity = yes, output sound velocity = no
S>volt2=y
this command will change the scan length and initialize logging
proceed Y/N ? y
scan length has changed, initializing logging
S>volt3=y
this command will change the scan length and initialize logging
proceed Y/N ? y
scan length has changed, initializing logging
S>ds
SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 16:45:40
vbatt = 13.9, vlith = 8.7, ioper = 62.3 ma, ipump = 75.5 ma,
iext01 = 4.6 ma, iext23 = 0.3 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 0, free = 364365
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = yes, Ext Volt 2 = yes, Ext Volt 3 = yes
echo commands = yes
output format = converted decimal
output salinity = yes, output sound velocity = no
S>note: just making sure we capture the oxygen until I can make sense of the
con files
?cmd S>ds
SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 16:46:17
vbatt = 13.9, vlith = 8.7, ioper = 62.3 ma, ipump = 76.2 ma,
iext01 = 4.9 ma, iext23 = 0.3 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 0, free = 364365
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = yes, Ext Volt 2 = yes, Ext Volt 3 = yes

```

echo commands = yes
output format = converted decimal
output salinity = yes, output sound velocity = no
S>outputformat=1
S>ds
SeacatPlus V 1.3a SERIAL NO. 4197 07 Aug 2011 16:47:43
vbatt = 13.8, vlith = 8.7, ioper = 62.3 ma, ipump = 73.8 ma,
iext01 = 4.5 ma, iext23 = 0.3 ma,
status = not logging
sample interval = 4500 seconds, number of measurements per sample = 4
samples = 0, free = 364365
mode = moored, run pump during sample, delay before sampling = 35.0 seconds
transmit real-time = no
battery type = ALKALINE, battery cutoff = 7.5 volts
pressure sensor = strain gauge, range = 1450.0
SBE 38 = no, Gas Tension Device = no
Ext Volt 0 = yes, Ext Volt 1 = yes, Ext Volt 2 = yes, Ext Volt 3 = yes
echo commands = yes
output format = converted HEX
S>startddmmyy=070811
S>starthhmmss=200000
start time = 07 Aug 2011 20:00:00
send startlater command to start delayed logging
S>startlater
start time = 07 Aug 2011 20:00:00

2649-SOGS-K (attached to Seabird and Brakner)



Deployment Planning

Standard

Setup

Measurement interval (s): 600

Average interval (s): 120

Measurement load (%): 4 ☒ Auto

Blanking dist. (m): 0.37

Compass upd. rate (s): 1 ☐ File wrapping

Speed of sound

☒ Measured

Salinity (ppt): 32

☐ Fixed (m/s): 1525

Coordinate system

☒ ENU ☐ XYZ ☐ Beam

Diagnostics

☒ Enable

Interval (min): 1440

Number of samples: 20

Deployment planning

Assumed duration (days): 120

Battery utilization (% of 50 Wh): 167

Memory required (MB): 0.8

Vertical vel. prec. (cm/s): 1

Horizont. vel. prec. (cm/s): 0.7

External inputs

Input 1: NONE

Input 2: NONE

☐ Output power

Start Update OK Cancel Apply Help

Deployment

☒ Start At: 8/ 7/2011 20:00:00 OK

☐ Start Now! Cancel

☐ Enable serial output / TellTale

Name: 2649K_ (max 6 char's)

Comments: (max 120 char's)

2649-SOGS-K
STart August 7, 2011 @ 2000 UTC
Lithium Pack

=====

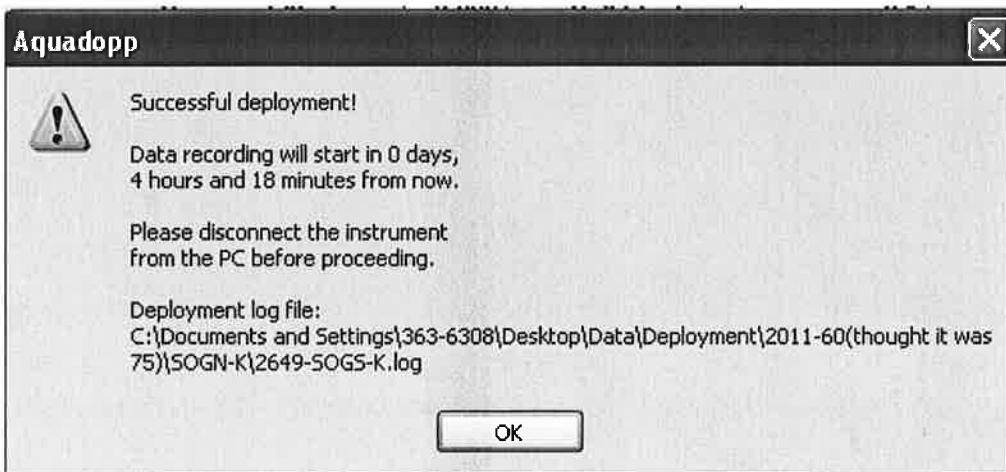
Deployment : 2649K_
 Current time : 8/7/2011 15:41:32
 Start at : 8/7/2011 20:00:00
 Comment:
 2649-SOGS-K
 STart August 7, 2011 @ 2000 UTC
 Lithium Pack

Measurement interval (s) : 600
Average interval (s) : 120
Blanking distance (m) : 0.37
Measurement load (%) : 4
Power level : HIGH
Diagnostics interval(min) : 1440
Diagnostics samples : 20
Compass upd. rate (s) : 1
Coordinate System : ENU
Speed of sound (m/s) : MEASURED
Salinity (ppt) : 32
Analog input 1 : NONE
Analog input 2 : NONE
Analog input power out : DISABLED
File wrapping : OFF
Serial output/TellTale : OFF

Assumed duration (days) : 120.0
Battery utilization (%) : 167.0
Battery level (V) : 11.3
Recorder size (MB) : 9
Recorder free space (MB) : 8.973
Memory required (MB) : 0.8
Vertical vel. prec (cm/s) : 1.0
Horizon. vel. prec (cm/s) : 0.7

Instrument ID : AQD 2649
Head ID : 2KL 2299
Firmware version : 1.21

Aquadopp Version 1.30
Copyright (C) Nortek AS
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MicroCat SBE 37 Deployment Sheet

INSTRUMENT

Serial Number: 1614

Sensors (C,T,P): No Pressure

Firmware Version: 2.6b

Depth Rating: _____

PARAMETERS

SampleNum: 0

Storetime: Y

Interval: 3 600 s

Syncmode: N

Navg/Ncycles: 4

Txrealtime: N

Reference pressure*: 300

OutputSV: Y

Time Zone: UTC

OutputSal: Y

Start: Aug 7, 2011 @ 2000

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

DEPLOYMENT

Station: 5025-K

Cruise Number: 2011-60

Latitude: _____

Water Depth: _____

Longitude: _____

Instrument Depth: 300

Time and Date in Water: _____

Comments:

Fresh Cal from factory. 4P

Completed by: _____

Date: _____

uCat dep.xls SFM

Mooring: SOGS-K
UCats X 1
Serial 1614 - new cal, no pump

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=070811

HHMMSS=160000 //(UTC)

OUTPUTSAL=Y

OUTPUTSV=Y

FORMAT=1

NAV G=4

PUMPIINSTALLED=N

SAMPLENUM=0

INTERVAL=600

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

STORETIME=Y
TXREALTIME=N
STARTDDMMYY=070811
STARTHHMMSS=200000
STARTLATER
