

TSG SBE 21 SN 3274

LOG BOOK

2013 SWL

IOS ARCTIC

2013-06-~~25~~ 26

TSG installed on SWL

SBE38 remote T installed in engine room.
SN 271

Using new FTDI USB → serial ports
by Sabrent + StarTech

Computer: Acer laptop PAC 2685

Con file: SWL 3274-TSG-3xFluor v2013-06-20
no unwa. xlscon

Fluorometer has 3x cable installed on
VO connection. SN 3275 SCF seapoint.
Con file also has 3x correct setting
selected. VI = Free.

Using D:\Seabird Settings\Settings

\TSG screen setup 2013.ps

Display Files are in ~~DE~~
D:\Seabird Settings\Display*.ds

Log File for use during cruise is:

Desktop \ 2013 TSG and Underway log.xls

July 3

NMEA Setup

New network feed for NMEA is at
10.248.248.20 Port 2000

Check with either

Telnet 10.248.248.20 2000

- should see NMEA stream
or Hyperterm, baud is 9600.

- Used HwPort to connect, but Seasave did not pick up NMEA at Start Ag. - timed out.
- Use GPSTGate to connect, same thing until added a filter. So the NMEA feed has so much extra stuff that Seasave can't see the GPRMC or GPGGA.

To set GPSTGate up

from scratch - double click on desktop icon
if running, right click on icon in system tray
& choose Settings

A window appears with 3 Tabs:

Input: Should say 'Running OK', if not

- hit the Close button

- from the dropdown menu, choose TCP/IP Client &
then Settings. Enter Server 10.248.248.20

Port 2000

OK, then Open

Output Tab :

Should show GPSGate Direct

Virtual COM7 / (\$GPRMC...) NMEA Filter

if not, go to the dropdown menu & select
Virtual COM Port / NMEA Filter & then
Add

- pick a com port #, hit OK
- on the Filter screen, choose on the left,
Block Everything But... & then
on the right in the drop down menu \$GPRMC,
Save, then \$GPGLL, Save. OK

You now have a Com Port that only has these
two NMEA Strings & Seasave should pick
up NMEA OK from it. Baud is 9600.

You can click on the ☒ in the upper right to
make the setup window go away, but GPSGate
will continue to run - check icon in system tray. It
will also start up on boot with the same settings.

Start of Leg 3 (Dease Strait)

Sep 25

Necessary to re-initialize GPSGate as described for 3 July.
SeaSaver would not recognize USB-serial when plugged
in rear of PC

Does fine when USB-serial plugged into left side.

4 October

1000 utc: Flow rate dropped & T values soared

1400 utc: Intake filter cleaned, & malfunction has cleared

Data not useful during 10-14 utc.

Unfortunately, the drain pipe from the SBE has been moved from
the sink to a fitted pipe. It is no longer simple to measure flow
rate. Does this need correction?

14 October

SWL in new ice. Occasional partial obstruction of
intake & reduced rate of flow.

16 October

Stop logging the Arctic file at 02:00 17 October
at $64^{\circ}43'N$ in the Bering Sea.

Start logging a Pacific file.

TSG-2013-22-0002.hex, —.hdr.

Stop logging at 1400 utc 27 October

SWL at Albert Head.