

START OF 2014 SWL
SEASON

Date

2014

2014-06-01

install & assemble

	T	C	Pump	other
10	5048	3579	5043	Δ01117
20	5073	3581	5248	FL2575 *

* SCF 2575 installed for plumbing
fit until McBH unit arrives.

NEEDS TO duct! Scott?

2014-06-14

	cabled all external sensors		
IT2	V0	XMISS	1050
	V1	Fluor	2575
			SPAR 20279
IT3	V2	Δ0	1117
	V3	ALT	40853
IT5	V4	PAR	70501

made new long PAR cable for QSP2300
70501 bought in 2013.

T&C look good
DO 6.5

PAR responds light dock
41t 98m.

Xmiss: $\phi = 0.05739$

light = 5.000

Cal unchanged $M = 17.385$

$B = -0.998$

20279 SPAR appears to not be working.

Xmiss now 87% in air

20279 Cal date 13/03/2007

Conv factor 1574.8

Ratio

SPAR now works

PAR? values:

PAR 70501

Cal date 2012-07-03

M 1 B 0 Cal const. 1.1933 E10

Offset - 0.084965974

no works but SPAR and PAR

SPAR 2.12

PAR 2.42.

open voltages.

$$V_0 = 0.0000 \quad V_4 = 0.0000$$

$$V_1 = 0.0000 \quad V_5 = 0.0000$$

$$V_2 = 0.0000 \quad V_6 = 0.0000$$

$$V_3 = 0.0000 \quad V_7 = 0.0000$$

OK ready to install.

2014-06-22

Setup on SWL

Deck unit 2A fuse had been dinged
being put in/out of tunnel box. Mike
replaced ^{fuse} ~~and~~ ~~all~~ tweaked internal
part of fuse holder. DU tails to CTD
fine on cheater cable.

Pressure on deck is 2.8m

T's agree; Trans O → 86; O_x 6.25

PAR O → 370

SPAR O → 90 → 160 } so not exact!

Still to do • connect to seacable

• floor pump tube is a sharp
bend are 2° TC ok?

• connect oxygen?

• NMEA

ship has changed setup and NMEA is now
on port #20 instead of #21. Paused

22

Date 2014

For NMEA hookup in CTD lab may not be configured yet.

Consider a direct feed to PC w/ GPSGate

23

June 23

JD

Installed GPS Gate & modified con file for GPS attached to PC

GPSGate Setup

Input: 10.248.248.21 : 2000

Output: COM 8 with NMEA filter to allow only GPRMC, GPGLL

Checked w/ hyperterm - looks OK.

33 : 951.951 (port 950) is direct to the Modem

~~Latest con file w/ NMEA from PC:~~

23 June

SE On deck pressure bias is still +2.7db
Adjust offset in calibration file to
from -3.4 to -6.1

History 2010

2011 -2.2

2012 -3.4

2013 -4.4

2014 -6.1

Latest con file: SBE9_941_2014_NMEA-on-PC-

2014-06-23b.xmlcon

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26 June

GPS not working

- Fluorometer 3X cable attached
- added inserts to oxygen plumbing
so larger tubes will fit onto smaller oxygen tubes

- added $\frac{1}{4}$ " section of PVC pipe to Fluorometer plumbing to keep tubing from collapsing.

Niskin's $\checkmark$ - needs longer lanyard
 done $\checkmark$ 22 - need to free lanyard from hose
 done $\checkmark$ 23 - replace endcap, loop lanyard

note top of pump on 2° system is 1" higher than on 1° system

- To do :
- GPS to be fixed (off? reconfigured?)
 - ~~Wire~~ to be properly set w/zip straps
 - Seacable needs to be attached along with the black XCTD tube
 - Fix lanyards on Niskin 7, 23
 - set up SPAR

Need admin to computer
 Science has admin privileges...

2014-07-02 S Zimmermann

GPS is now coming through a "Max Box" or "Navmux".

Box has IP address is putting data out to 4 ports and computers running

NPort go to IP address and then set up 4 virtual ports.

But this is not working on our XP laptops so they are running GPS gate to look at IP address directly and then write output to selected virtual com port.

NPort

But it is working on the CTD computer!

Com 2 10.248.248.33 : 950

Com 6 " 951

Com 7 " 952

Com 8 " 953

Science will use ports 952 + 953

Ship will use ports 950 + 951

There are 8 opening on each port... so if connection fails, try changing port. (or com port)

Also baud rate is 19200 but Seasave + hyperterm are seeing data when 2400, 4800, 9600 selected as well...

So CTD

A) use com 7 ; if trouble, try com 8, 2, and 6

B) jump to GPS gate

input 10.248.248.33 (TCP/IP)

port 952

output virtual computer 9

Didn't find a need to filter signal (as of today)

IF needed, in output chose

virtual computer / NMEA filter

and you can block all except GPGGA
check out results w/ hyper term.

2014-10-30

end of cruise

Log book scanned & added to
SWL 2014 on arctic drive