2012-14 — Two fluorometers the FL config is wrong in the Cruise files. Use the 2012-01 settings OR file 2012-14 Venus dual fluorometers prof s f.xmlcon which is in the Raw CTD data file

DA OG BOOK

MISSION NUMBER 2012-14

From: FEB 22, 2012 **to:** FEB 27, 2012

VESSEL: J. P. TULLY

PROJECT(S): VENUS / Strait of Georgia

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
North Saanich, BC, Canada

Captain: MIKE CORFIELD First Officer: RICH MARRIOT
Second Officer: SHANE ~~SH~~OVELACE Third Officer: JIM GARRETT
Fishing Master: _____

Mission Participants / Agencies: VENUS/UVIC/DFO

Scientific Personnel: Chief Scientist: PAUL MACOUN

Name	Watch	Cabin	Name	Watch	Cabin
DENIS HEDDI			VERENA TUNNICLIFFE		
CHRIS SUNDSTROM			MARLENE JEFFRIES		
JONATHAN ROS			MARJA BLASE		
CRAIG DAWE			CHERISSE DU PREEZ		
HARRY CASTLE			ANGELICA PENA		
JOSH CHERNOV			NINA NEMCEK		
DEAN JOHNSON					

Second leg of Mission: Chief Scientist: _____

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer: ~~#~~ #3
Data acquisition program: SEASAVE
CTD deck unit make: ~~#~~SBE model: 11+ serial number: 0471

Primary CTD

Make: Seabird model: 9PLUS serial number: 0443
Primary temperature serial number: 2106
Primary conductivity serial number: 1764
Secondary temperature serial number: 2710
Secondary conductivity serial number: 2128
Transmissometer: 1396DR Model: WETLABS s/n: 1396DR
Fluorometer: Model SeaPoint Cable gain: 10X s/n: 7228 **P, S or NO pump?**
Oxygen sensor: SBE Model: 43 s/n: 0097 **P, S or NO pump?**
PAR sensor: NONE — Model: — s/n: —
Other sensors: ECO Fluorometer WETLABS s/n: 2215 **P, S or NO pump?**
Other sensors: _____ s/n: _____ **P, S or NO pump?**
Other sensors: _____ s/n: _____ **P, S or NO pump?**
Other sensors: _____ s/n: _____ **P, S or NO pump?**

Secondary CTD

Make: _____ model: _____ serial number: _____
Primary temperature serial number: _____
Primary conductivity serial number: _____
Secondary temperature serial number: _____
Secondary conductivity serial number: _____
Transmissometer: _____ Model: _____ s/n: _____
Fluorometer: Model _____ Cable gain: _____ s/n: _____ **P, S or NO pump?**
Oxygen sensor: _____ Model: _____ s/n: _____ **P, S or NO pump?**
PAR sensor: _____ Model: _____ s/n: _____
Other sensors: _____ s/n: _____ **P, S or NO pump?**
Other sensors: _____ s/n: _____ **P, S or NO pump?**
Other sensors: _____ s/n: _____ **P, S or NO pump?**
Other sensors: _____ s/n: _____ **P, S or NO pump?**

CTD calibration bottle location (height above CTD in metres): _____

Rosette Setup:
Number of bottles: 24
Manufacturer: IOS
Volume of bottles (litres): 10 L

Winches:
1. Make: _____ Model: _____ Serial #: _____ Used for: _____
2. Make: _____ Model: _____ Serial #: _____ Used for: _____
3. Make: _____ Model: _____ Serial #: _____ Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

_____
_____
_____

Salinometer:
Make: _____ Model: _____ Serial Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

_____

Oxygen Kit(s):
Make: _____ Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

_____
_____

Thermosalinograph System (SBE21):
Program: _____ Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

_____

ADCP Setup:
Computer time zone:_____ User Exits: Name:_____ Exit points:_____
Sampling interval (sec):_____ Name:_____ Exit points:_____
Bin Length: (2^x):_____ Name:_____ Exit points:_____
Pulse Length:_____ Work File:_____
Buffer (bytes):_____
Gyro Offset:_____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

_____
_____

CTD Test Cast Information

Test Cast along side? Yes ☐ No ☐
Comments _____

Test Cast in Saanich Inlet or other location? Yes ☐ No ☐
Comments _____

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working? Yes ☐ (0011) No ☐ (0010)

Secondary Temp – Primary Temp: _____
(Average from the mixed region)

Secondary Salinity – Primary Salinity: _____
(Average from the mixed region)

Additional Comments:

_____
_____
_____
_____

Rosette Setup:
Number of bottles: 24
Manufacturer: _____
Volume of bottles (litres): _____

Winches:
1. Make: _____ Model: _____ Serial #: _____ Used for: _____
2. Make: _____ Model: _____ Serial #: _____ Used for: _____
3. Make: _____ Model: _____ Serial #: _____ Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):
_____
_____
_____

Salinometer:
Make: _____ Model: _____ Serial Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):
_____

Oxygen Kit(s):
Make: _____ Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):
_____
_____

Thermosalinograph System (SBE21):
Program: _____ Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):
_____

ADCP Setup:
Computer time zone: _____ User Exits: Name: _____ Exit points: _____
Sampling interval (sec): _____ Name: _____ Exit points: _____
Bin Length: (2^x): _____ Name: _____ Exit points: _____
Pulse Length: _____ Work File: _____
Buffer (bytes): _____
Gyro Offset: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):
_____
_____

CTD Test Cast Information

Test Cast along side? Yes ☐ No ☒
Comments _____

Test Cast in Saanich Inlet or other location? Yes ☐ No ☐
Comments _____

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working? Yes ☐ (0011) No ☐ (0010)

Secondary Temp – Primary Temp: _____
(Average from the mixed region)

Secondary Salinity – Primary Salinity: _____
(Average from the mixed region)

Additional Comments:
_____
_____
_____
_____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month FEB **Year** 2012 **Ship** TULLY **Cruise ID** 2012-01

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
23	SI	02:15	BE	ROS	US	1	48°39.287	123°30.242	187	150	1-4	4	N²	✓	Stagnant flowmeter saturating
		0221	BO				48°39.234	123°30.281							supposed to be 1-15
		0225	EN				48°39.224	123°30.308							see over →
23	40	0648	BE	ROS	US	2	49° 8.518	123° 36.898	155	150	5-10	6	N²/AP	✓	
		0653	BO				49° 8.524	123° 36.816							
		0702	EN				49° 8.545	123° 36.786							
23	39	0749	BE	ROS	US	3	49° 9.790	123° 32.896	374	365	11-22	12	N²/AP	✓	looks like chl
		0757	BO				49° 9.767	123° 32.921							max @ 15m
		0814	EN				49° 9.784	123° 32.951							
23	38	0902	BE	ROS	US	4	49° 11.993	123° 26.239	303	292	23-28	6	N²/AP	✓	
		0909	BO				49° 11.969	123° 26.251							
		0920	EN				49° 11.978	123° 26.214							
23	37	1016	BE	ROS	US	5	49° 13.584	123° 20.527	208	200	29-34	6	N²/AP	✓	
		1020	BO				49° 13.584	123° 20.532							
		1031	EN				49° 13.625	123° 20.513							
24	28	0636	BE	ROS	US	6	49° 24.136	123° 45.229	137	129	35-40	6	N²	NO	- forgot oors!
		0640	BO				49° 24.161	123° 45.172							
		0647	EN				49° 24.162	123° 45.101							

Cast Type:
BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set
USW = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
____ = _____

Bottle Firing Method:
US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Time Code:
BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Notes:

Transmissometer to be cleaned before each cast, do not use Ammonia products

Seapoint and Wetlabs fluorometers are not in agreement at all, Wetlabs giving values less than 1/2 of Seapoint

Lanyard on Niskin 1 needs to be longer! Impossible to arm!

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month FEB | **Year** 2012 | **Ship** TULLY | **Cruise ID** 2012-14

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information: Latitude	Positional Information: Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
24	27B	0725	BE	ROS	US	7	49° 21.436	123° 46.540	128	120	41-46	6	N2	✓	bottom shoaling to 114 at beg / end of cast
		0728	BO				49° 21.420	123° 46.477							
		0735	EN				49° 21.455	123° 46.496							
24	27	0823	BE	ROS	US	8	49° 19.159	123° 48.094	346	340	47-58	12	N2	✓	chl max ~20m
		0831	BO				49° 19.133	123° 48.150							
		0848	EN				49° 19.156	123° 48.142							
24	26B	0941	BE	ROS	US	9	49° 16.601	123° 49.308	411	400	59-64	6	N2		418 on sounder
		0949	BO				49° 16.609	123° 49.309							411 from altimeter
		1002	EN				49° 16.616	123° 49.336							
24	26	1045	BE	ROS	US	10	49° 14.351	123° 50.894	254	244	65-70	6	N2	✓	unstable water @10m bottle
		1050	BO				49° 14.351	123° 50.897							
		1100	EN				49° 14.369	123° 50.892							big Sal, Temp sensor offsets → see over
25	24B		BE	ROS	US	11	49°	124°	174		71-76	6	N2	✓	
			BO				49°	124°							
			EN				49°	124°	CAST TERMINATED						
	Saturday morning Feb 25, Hugh came on board to re-terminate cable in SI														
26	47	0610	BE	ROS	US	11	48° 49.288	123° 6.170	186	175	71-76	6	N2	✓	reusing unused sample #'s from last night
		0615	BO				48° 49.296	123° 6.157							
		0623	EN				48° 49.302	123° 6.128							

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Transmissometer to be cleaned before each cast, do not use Ammonia products

Notes: _____

Problem launching, wire jumped the sheave, heard horrible scraping sound
have noone on board to reterminate

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month | **Year** | **Ship** | **Cruise ID**

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
26	46	0714	BE	ROS	US	12	48° 51.406	123° 10.697	177	168	77-88	12	N2	✓	
		0717	BO				48° 51.396	123° 10.680							
		0730	EN				48° 51.373	123° 10.726							
26	45	0825	BE	ROS	US	13	48° 53.812	123° 9.010	130	120	89-94	6	N2	✓	
		0828	BO				48° 53.808	123° 9.040							
		0835	EN				48° 53.777	123° 9.040							
26	AP	1004	BE	ROS	US	14	48° 55.228	123° 18.190	189	180	95-100	6	N2	NO	out of Kinmipo
		1009	BO				48° 55.218	123° 18.240							
		1018	EN				48° 55.240	123° 18.294							
26	43	1125	BE	ROS	US	15	49° 0.221	123° 30.125	203	196	101-106	6	N2		see above
		1129	BO				49° 0.254	123 30.102							
		1138	EN				49° 0.269	123° 30.118							
26	42	1222	BE	ROS	US	16	49° 1.854	123° 26.144	319	310	107-118	12	N2		
		1229	BO				49° 1.840	123° 26.176							
		1245	EN				49° 1.909	123° 26.191							
26	41	1322	BE	ROS	US	17	49° 3.334	123° 22.240	241	230	119-124	6	N2		
		1327	BO				49° 3.328	123° 22.228							
		1336	EN				49° 3.355	123° 22.258							

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Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month | **Year** | **Ship** | **Cruise ID**

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
27	24B		BE	ROS	US	18	49°	124°	150	140	125-130	6	N2	✓	forgot to record
		0605	BO				49° 33,148	124° 4,549							Start Position/
		0613	EN				49° 33.146	124° 4,570							Time
27	24	0653	BE	ROS	US	19	49° 30,288	124° 5.992	428	420	131-142	12	N2	✓	-0.5m/s descent
		0701	BO				49° 30,283	124° 5.984							first 50m →
		0720	EN				49° 30,277	124° 5.989							
27	25	0758	BE	ROS	US	20	49° 27.691	124° 7.547	295	287	143-148	6	N2	✓	
		0804	BO				49° 27.685	124° 7.468							
		0813	EN				49° 27.682	124° 7,550							
27	2	0851	BE	ROS	US	21	49° 24.062	124° 9,334	281	270	149-160	12	N2	✓	
		0856	BO				49° 24.083	124° 9.319							
		0909	EN				49° 24,125	124° 9.248							
27	1	0947	BO	ROS	US	22	49° 20.344	124° 12.058	251	241	161-166	6	N2		
		0951	BO				49° 20,340	124° 12 034							
		0959	EN				49° 20.353	124° 12.004							

Cast Type:
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Notes: _____

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Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

maybe we need more weight on rosette, operators say they have to go slow until 50m due to insufficient weight, is this messing up data?