

DAILY SCIENCE LOG

Note: likely CTD
deployment method.
Same as - 41
not clear how done.

2016-52

DATE:

From:

to:

VESSEL:

J.P. Tully

PROJECT(S):

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

WaterProperties.ca

Captain: _____
 Second Officer: _____
 Fishing Master: _____
 First Officer: _____
 Third Officer: _____

Mission Participants / Agencies:

[illegible][illegible]

Data logging computer:

Tully CTD Laptop (Kew)

Data acquisition program: Seabave
CTD deck unit make: SBE model: 11+ serial number: 0425

Primary CTD

Make: SBE model: 9+ serial number: 0443

Primary temperature serial number: 2106

Primary conductivity serial number: 2280

Secondary temperature serial number: 2663

Secondary conductivity serial number: 2754

Transmissometer: Wetlabs
Model: C-Star s/n: 1185DR

Fluorometer: Model Seapoint Cable gain: 10x s/n: 3640 **P** S or NO pump?

Oxygen sensor:	SP3E	Model:	43	s/n:	0197	P	S or NO pump?
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PAR sensor:	Model:	s/n:
PAR sensor:	Model:	s/n:

Other sensors: 64 SB E18 s/n: 0692 P, S or NO pump? NO

Other sensors: ATIM02 s/n: 62354 P, S or NO pump? NO

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: _____ s/n: _____
Model: _____

Fluorometer: Model	Cable gain:	s/n:	P, S or NO pump?
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Oxygen sensor: _____ Model: _____ s/n: _____ P, S or NO pump? _____

PAR sensor:	Model:	s/n:
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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?
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: LOS
Volume of bottles (litres): 10 L

Winches:

1. Make: Hawboldt Model: _____ Serial #: 17026 Used for: LARS
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:

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Month <u>April</u>				Year <u>2016</u>			Ship <u>Tully</u>			Cruise ID <u>2016-52</u>					
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							
29	SI	0346	BE	ROS	US	1	48° 39.060	123° 29.150	94		1-2	2	SR	✓	O ₂
		0351	BO				39.060	29.150		95					
		0353	EN				39.060	29.150							
29	Delta	1109	BE	ROS	US	2	49° 4.740	123° 20.560	160		3-7	5	SR	✓	O ₂
		1112	BO				4.740	20.560		157					
		1120	EN				4.750	20.540							
29	Delta	1203	BE	ROS	US	3	49° 4.730	123° 20.507	160		8-14	7	SR	✓	
		1207	BO				4.727	20.516		157					
		1213	EN				4.730	20.512							
30	SI-BPS1	0246	BE	CTD		4	48° 37.620	123° 29.430	180				SR	✓	
		0254	BO				48° 37.620	123° 29.440		180					
			EN				48° 37.620	123° 29.440							
30	BPS2	0317	BE	CTD		5	48° 37.580	123° 29.660	206				SR	✓	
		0321					37.580	29.660		202					
		0325					37.590	29.660							

Cast Type:
 BOT = Bottle cast, no CTD
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 SET = Fish Set
 USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
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Bottle Firing Method:
 US = Up / Stop
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Transmissometer & Fluorometer are to be cleaned before each cast

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Month				Year			Ship				Cruise ID				
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							Latitude	Longitude							
30	BPS-5	0344	BE	ROS		6	48° 37.620	123° 30.050	207				SR	✓	
		0348	BO				37.620	30.060		203					
		0352	EN				37.620	30.050							
30	BPS3	0410	BE	ROS		7	48° 37.450	123° 30.420	195				SR	✓	
		0414	BO				37.440	30.420		190					
		0417	EN				37.440	30.430							
30	BPS4	0433	BE	ROS		8	48° 37.310	123° 30.930	94				SR	✓	
		0435	BO				37.310	30.930		89					
		0437	EN				37.310	30.930							
30	S5	0502	BE	ROS		9	48° 39.322	123° 30.203	185				SR	✓	
		0506	BO				39.313	123° 30.203		180					
		0509	EN				39.306	30.208							
30	S6	0546	BE	ROS		10	48° 41.580	123° 29.840	83				SR	✓	
		0548	BO				41.580	29.850		78					
		0550	EN				41.590	29.860							

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Month <u>April</u>				Year <u>2016</u>			Ship <u>Tully</u>				Cruise ID <u>2016-52</u>				
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							
30	EN	1203	BE	ROS	US	11	49° 2.520	123° 19.050	172		15-21	7	SR	✓	O ₂
		1208	BO				2.520	19.050		169					
		1215	EN				2.520	19.050							
30	EN	1232	BE	ROS		12	49° 2.530	123° 19.040	171		22-28	7	SR	✓	* EK-60 18KH
		1236	BO				2.530	19.040		168					
		1243	EN				2.520	19.030							
30	EN	1408	BE	ROS		13	49° 2.510	123° 18.990	169		29-35	7	SR	✓	O ₂
		1412	BO				2.510	18.990		166					
		1419	EN				2.510	18.990							
1 ^{05MAY}	DDL	0235	BE	ROS		14	49° 5.109	123° 19.820	112		36-40	5	SR	✓	
		0238	BO				5.110	19.820		109					
		0245	EN				5.110	19.820							
1	DDL	0311	BE			15	49° 5.110	123° 19.820	112		41-46	6	SR	✓	
		0314	BO				5.110	19.820		109					
		0321	EN				5.110	19.820							

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The transmissometer calibration coefficients were changed for this cast. SR

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Month <u>May</u>				Year <u>2016</u>			Ship <u>Tully</u>				Cruise ID <u>2016-52</u>				
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							
01	DDL	0347	BE	ROS	us	16	49° 5.110	123° 19.820	112		47-52	6	SR	✓	
		0351	BO				5.112	19.818		109					
		0358	EN				5.112	19.817							
01	DDL	0424	BE	ROS	US	17	49° 5.110	123° 19.820	113		53-58	6	SR	✓	
		0427	BO				5.110	19.820		110					
		0434	EN												
01	DDL	0500	BE	ROS	us	18	49° 5.120	123° 19.820	113		59-64	6	SR	✓	
		0503	BO				5.110	19.820		110					
		0511	EN				5.114	19.816							
01	DDL	0527	BE	ROS	us	19	49° 5.120	123° 19.810	113		65-70	6	SR	✓	
		0531	BO				5.120	19.810		110					
		0538	EN				5.120	19.810							
01	DDL	0631	BE	ROS	uc	20	49° 5.120	123° 19.800	114		71-76	6	SR	✓	
		0634	BO				5.120	19.800		111					
		0642	EN				5.120	19.800							

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Month <u>May</u>				Year <u>2016</u>			Ship <u>Tully</u>				Cruise ID <u>2016-52</u>				
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							
01	DDL	0722	BE	ROS	us	21	49° 5.120	123° 19.800	114		77-82	6	SR	✓	
		0725	BO				5.120	19.800		111					
		0732	EN				5.120	19.800							
01	CNode	0834	BE	ROS	us	22	49° 2.490	123° 25.440	302		83-91	9	SR	✓	
		0840	BO				2.490	25.450		299					
		0851	EN				2.470	25.480							
02	BBL	0314	BE	ROS	us	23	49° 4.840	123° 20.450	150		92-97	6	SR	✓	
		0317	BO				4.840	20.450		147					
		03	EN				4.840	20.450							
02	BBL	0354	BE	ROS	us	24	49° 4.840	123° 20.450	150						
		0356	BO				49 4.840	123 20.450		147	98-103	6	SR	✓	Dead flat
		0407	EN				49 4.841	123 20.449							calm
02	BBL	0427	BE	ROS	us	25	49° 4.840	123° 20.450	152		104-109	6	SR	✓	
			BO				4.840	20.450		149					
			EN												

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Notes:

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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							
02	BBL	0502	BE	ROS	US	26	49° 4.840	123° 20.450	152		110-115		SR	✓	
		0505	BO				4.840	20.450		149					
			EN												
02	BBL	0534	BE	ROS	US	27	49° 4.844	123° 20.447	152		116-121		SR	✓	
		0538	BO				4.840	20.450		149					
		0547	EN				4.850	20.450							
02	BBL	0607	BE	ROS	US	28	49° 4.850	123° 20.440	153		122-127		SR	✓	NMEA keeps
		0611	BO				4.830	20.440		150					freezing
		0620	EN				4.850	20.440							
02	BBL	0707	BE	ROS	US	29	49° 4.850	123° 20.440	153		128-133		SR	✓	
		0712	BO				4.850	20.440		150					
		0719	EN				4.850	20.440							
04	SILL	1336	BE	ROS	US	30	48° 41.350	123° 29.870	86		134-135	2	SR	✓	pH vial left on
		1338	BO				41.350	29.870		83					for this cast.
		1340	EN				41.350	29.870							

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Month <u>MAY</u>				Year <u>2016</u>			Ship <u>TULLY</u>			Cruise ID <u>2016-52</u> (<u>2016-002-PGC</u>)					
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							
16	ADCP PLANKT	0245	BE	ROS	U.S.	31	53° 59.25	128° 40.11	73		136-140	5	H.M./N.K.	✓	
		0247	BO				53° 59.25	128° 40.11		76					
		0251	CM				53° 59.25	128° 40.11							
10	ADCP 2	0356	BE	ROS	U.S.	32	53° 56.51	128° 41.15	200		141-145	5	H.M./N.K.	✓	
		0400	BO				53° 56.52	128° 41.13		200					
		0408	CM				53° 56.53	128° 41.20							
10	ADCP 3	0452	BE	ROS	U.S.	33	53° 55.14	128° 42.91	217		146-150	5	H.M./N.K.	✓	
		0456	BO				53° 55.13	128° 42.89		216					
		0504	CM				53° 55.14	128° 42.87							
10	ADCP 1	0646	BE	ROS	U.S.	34	53° 59.23	128° 40.06	74		151-155	5	H.M./N.K.	✓	
		0648	BO				53° 59.23	128° 40.05		76					
		0653	CM				53° 59.22	128° 40.04							
10	ADCP 2	0803	BE	ROS	U.S.	35	53° 56.56	128° 41.15	266		156-160	5	H.M./N.K.	✓	
		0807	BO				53° 56.49	128° 41.17		201					
		0814	CM				53° 56.46	128° 41.19							

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Month MAY			Year 2016			Ship TULLY			Cruise ID 2016-52						
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							
10	ADCP 1	0924	BE	ROS	U.S.	36	53° 59.27	128° 40.05	73		161 - 165	5	AM/NK	✓	
		0926	BO				53° 59.28	128° 40.04		70.3					
		0931	EN				53° 59.29	128° 40.00							
10	ADCP 2	1035	BE	ROS	U.S.	37	53° 56.51	128° 41.15	203		166 - 170	5	AM/NK	✓	
		1038	BO				53° 56.50	128° 41.16		204					
		1046	EN				53° 56.47	128° 41.17							
10	ADCP 1	1209	BE	ROS	U.S.	38	53° 59.24	128° 40.13	76		171 - 175	5	AM/NK	✓	
		1211	BO				53° 59.24	128° 40.13		78.6					
		1217	EN				53° 59.40	128° 40.15							
11	ADCP 1	0248	BE	ROS	U.S.	39	53° 59.23	128° 40.26	89		176 - 180	5	AM/NK	✓	LEFT CTD RUNNING
		0250	BO				53° 59.24	128° 40.26		85					FOR 5 min on DECK
		0255	EN				53° 59.23	128° 40.29							
11	ADCP 1B	0332	BE	ROS	U.S.	40	53° 57.89	128° 40.62	169		181 - 185	5	AM/NK	✓	
		0336	BO				53° 57.89	128° 40.61		171					
		0342	EN				53° 57.89	128° 40.59							

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							Latitude	Longitude							
11	ADCP 2	0420	BC	ROS	U.S.	41	53° 56.52	128° 41.10	201		186-190	5	H.M./N.H.	✓	
		0424	BO				53° 56.52	128° 41.09		201					
		0432	EN				53° 56.52	128° 41.09							
11	ADCP 1	0557	BE	ROS	U.S.	42	53° 59.14	128° 40.04	94		191-195	5	H.M./N.H.	✓	
		0559	BO				53° 59.13	128° 40.05		95					
		0606	EN				53° 59.13	128° 40.08							
11	ADCP 1B	0635	BC	ROS	U.S.	43	53° 57.89	128° 40.59	168		196-200	5	H.M./N.H.	✓	
		0639	BO				53° 57.90	128° 40.57		167					
		0645	EN				53° 57.91	128° 40.56							
11	ADCP 1	0737	BC	ROS	U.S.	44	53° 59.27	128° 40.12	66		201-205	5	H.M./N.H.	✓	
		0739	BO				53° 59.26	128° 40.12		72					
		0745	EN				53° 59.27	128° 40.10							
11	ADCP 1B	0827	BC	ROS	U.S.	45	53° 57.88	128° 40.64	170		206-210	5	H.M./N.H.	✓	
		0830	BO				53° 57.89	128° 40.65		170					
		0838	EN				53° 57.92	128° 40.67							

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Month <u>MAY</u>				Year <u>2016</u>			Ship <u>TULLY</u>				Cruise ID <u>2016-52</u>				
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							
11	ADCP 1	0923	BC	ROS	U.S.	46	53° 59.29	128° 40.08	67		211-215	5	H.M./N.K.	✓	
		0924	BO				53° 59.28	128° 40.08		71					
		0936	EN				53° 59.27	128° 40.05							
11	ADCP 1B	1004	BC	ROS	U.S.	47	53° 57.89	128° 40.62	170		216-220	5	H.M./N.K.	✓	
		1008	BO				53° 57.89	128° 40.62							
		1014	EN				53° 57.88	128° 40.59							
11	ADCP 1	1045	BC	ROS	U.S.	48	53° 59.26	128° 40.11	73		221-225	5	H.M./N.K.	✓	
		1047	BO				53° 59.27	128° 40.11		74					
		1052	EN				53° 59.27	128° 40.13							
11	ADCP 1B	1124	BC	ROS	U.S.	49	53° 57.92	128° 40.61	171		226-230	5	H.M./N.K.	✓	
		1128	BO				53° 57.91	128° 40.61		171					
		1135	EN				53° 57.89	128° 40.61							
11	ADCP 1	1205	BC	ROS	U.S.	50	53° 59.20	128° 40.17	96		231-235	5	H.M./N.K.	✓	
		1207	BO				53° 59.20	128° 40.17		91					
		1213	EN				53° 59.20	128° 40.17							

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

Notes:

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