

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2012-15

DATE:

From: APR 10/12 to: APR 10/12

VESSEL:

VECTOR

PROJECT(S):

T-SUTHERLAND - NOVALES CHANNEL

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

WaterProperties.ca

Captain: JEFF NEMEAU First Officer: MAT TAYLOR
Second Officer: STEVE SWIFT Third Officer: _____
Fishing Master: _____

Mission Participants / Agencies: MEAD/EARS - 105 -

Scientific Personnel:	Chief Scientist:	TERRI SUTHERLAND		
Name	Watch	Cabin	Name	Watch
ANDREA BYRNE				
ANDREA BARTSCH				
JENNIFER O'NEILL				
SHANE PETERSEN				
MICHELE CHAMBERLAIN				
CLAIRE SALVADOR				
NATHAN BLASCO				
HUGH MAC LEAN				

[illegible]

Data logging computer:

Data acquisition program: _____
 CTD deck unit make: SDC model: 11 serial number: 0425

Primary CTD

Make: **SBG-** model: **9** serial number: **506**

Primary temperature serial number: 2038

Primary conductivity serial number: 3394

Secondary temperature serial number: 4803Secondary conductivity serial number: 1763

Transmissometer:

Fluorometer: Model	SEA P6147	Cable gain:	3 x 0.5	s/n:	2228
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Oxygen sensor: SBC Model: 43 s/n: 1119 P. S or NO pump? P

PAR sensor: Biospherical Model: - s/n: 4601

Other sensors: _____ s/n: _____

Other sensors: ALTIMETER s/n: 43281 P, S or NO pump? I

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:

Fluorometer: Model	Cable gain:	s/n:
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Oxygen sensor: _____ Model: _____

PAR sensor:	Model:	s/n
PAR sensor:	Model:	s/n

Other sensors: _____ s/n: _____

Other sensors: _____

s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n _____

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

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Month APRIL				Year 2012				Ship VECTOR				Cruise ID 2012-15			
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	NC-1	1427	BE	ROS	U.S.	001	50° 20.78	125° 25.84	340		1 - 14	14	H.M.	✓	T: 7.75 S: 29.63
		1434	BO				50° 20.78	125° 25.83		335					
		1451	EN				50° 20.71	125° 25.89							
11	NC 2	1554	BE	ROS	U.S.	002	50° 21.06	125° 24.67	318		15 - 27	13	H.M.	✓	T: 7.91 S: 29.45
		1600	BO				50° 21.07	125° 24.63		314					
		1615	EN				50° 21.09	125° 24.70							
11	NC 3	1752	BE	ROS	U.S.	003	50° 21.44	125° 23.12	284		28 - 39	12	H.M.	✓	T: 7.94 S: 29.38
		1757	BO				50° 21.44	125° 23.12		279					
		1811	EN				50° 21.44	125° 23.11							
11	NC 4	2007	BE	ROS	U.S.	004	50° 21.73	125° 22.31	260		40 - 51	12	H.M.	✓	T: 8.00 S: 29.32
		2012	BO				50° 21.73	125° 22.33		251					
		2025	EN				50° 21.69	125° 22.42							
	NC 4	2158	BE	GRAB		005	50° 21.74	125° 22.33	259		—	—			SMITHMAC GRAB 1 ATTEMPT

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:

Time Code:

BE = Beginning Time of Cast
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Transmissometer to be cleaned before each cast, do not use Ammonia products

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Month <u>APRIL</u>				Year <u>2012</u>			Ship <u>VECTOR</u>				Cruise ID <u>2012-15</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	NAE 3	2201	2BG	GRAB		6	50° 21. 44	125° 23. 09	317						SMITHMAC GRAB
12	NC 2	0058	BG	GRAB		7	50° 21. 08	125° 24. 64	317						SMITHMAC GRAB
12	NC 1	0200	BG	GRAB		8	50° 20. 77	125° 25. 94	319						SMITHMAC GRAB
12	NC 5	1433	BG	ROS	U.S.	9	50° 22. 04	125° 21. 66	222		52- 63	12	H.M.	✓	T: 7.94 S: 29.39
		1438	BO				50° 22. 04	125° 21. 68		218					
		1450	EN				50° 22. 05	125° 21. 71							
12	NC 6	1519	BG	ROS	U.S.	10	50° 22. 65	125° 20. 96	230		64- 75	12	H.M.	✓	T: 7.91 S: 29.37
		1524	BO				50° 22. 65	125° 20. 96		226					
		1537	EN				50° 22. 65	125° 20. 95							
12	NC 7	1633	BG	ROS	U.S.	11	50° 23. 20	125° 20. 51	228		76 - 87	12	H.M.	✓	T: 7.95 S: 29.40
		1637	BO				50° 23. 20	125° 20. 53							
		1650	EN				50° 23. 17	125° 20. 54							

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							Latitude	Longitude							
12	NC 8	1734	BE	ROS	U.S.	12	50° 24.11	125° 19.89	260		88-99	12	H.M.	✓	T: 8'00 S: 29.34
		1739	BO				50° 24.09	125° 19.89		255					
		1753	EN				50° 24.10	125° 19.90							
12	NC 9	1820	BE	ROS	U.S.	13	50° 24.74	125° 19.44	284		100-112	13	H.M.	✓	T: 8'00 S: 28.96
		1826	BO				50° 24.74	125° 19.43		278					
		1840	EN				50° 24.74	125° 19.44							
12	NC 9	1922	BE	GRAB		14	50° 24.74	125° 19.44	283						SMITHMAC
12	NC 8	2044	BE	GRAB		15	50° 24.12	125° 19.87	259						11
12	NC 7	2130	BE	GRAB		16	50° 23.21	125° 20.52	226						11
12	NC 6	2238	BE	GRAB		17	50° 22.66	125° 20.98	224						11
12	NC 5	2319	BE	GRAB		18	50° 22.07	125° 25.03	305						

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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							
13	NC 10	1539	BE	ROS	U.S.	19	50° 25.29	125° 19.01	312		113-125	13	H.M.	✓	T: 8.01 S: 29.29
		1546	BO				50° 25.30	125° 19.01		306					
		1601	EM				50° 25.34	125° 19.01							
13	NC 11	1644	BE	ROS	U.S.	20	50° 25.99	125° 18.68	328		126-140	15	H.M.	✓	T: 7.99 S: 29.35
		1650	BE				50° 25.98	125° 18.68		322					
		1707	EM				50° 25.96	125° 18.63							
13	NC 11	1800	BE	CORG		21	50° 25.96	125° 18.69	328		—	—	S.A.		Pederson CORG
	NC 12	1820	BE	CORG		22	50° 26.48	125° 18.36	326		—	—	S.P.		Pederson CORG
13	NC 12	1916	BE	ROS		23	50° 26.50	125° 18.38	326		141-154	14	H.M.	✓	T: 8.14 S: 29.22
		1922	BO				50° 26.51	125° 18.37		318					
		1938	EM				50° 26.53	125° 18.32							
13	NC 13	2014	BE	ROS		24	50° 26.96	125° 18.08	300		155-165	11	H.M.	✓	T: 8.45 S: 28.72
		2020	BO				50° 26.95	125° 18.06		300					
		2033	EM				50° 26.93	125° 17.99							

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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							
13	NC 11	1800	BC	CORE		25	50 25.96	125.18.69			—		S.P.		PEARSON CORE
13	NC 12	1820	BC	CORE		26	50° 26.48	125° 18.36	318		—		SP		"
13	NC 12	2158		GRAB		27	50 26.464	125 18.354	318		—		AB		SMITH-MAC
13	NC 11	22150		GRAB		28	50 25.970	125 18.632	327		—		AB		"
13	NC 10	2345		GRAB		29	50 26.979	125 18.056	307		—		AB		"
13	NC 10	2400		CORE		30	50 25.290	125 19.018	312		—		SP		CORE
14	NC 9			CORE		31	50 24.745	125 19.424	293				SP		NO CORE 3x
14	NC 8			CORE		32	50 24.108	125 19.874	200				SP		CORE
14	NC 7	1500		CORE		33	50 23.215	125.20.513	236				SP		CORE
14	NC 6	1520		CORE		34	50 22.638	125 20.942	245				SP		CORE

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							Latitude	Longitude							
14	NC 23	1659	BE	ROS		35	50° 23.60	125° 22.44	63		166-170	5	H.M.	✓	T: 8.06 S: 29.52
		1701	BO				50° 23.61	125° 22.44		57					
		1705	EN				50° 23.60	125° 22.44							
14	NC 24	1724	BE	ROS		36	50° 23.47	125° 21.97	55		171-176	6	H.M.	✓	T: 8.06 S: 29.36
		1725	BO				50° 23.47	125° 21.97		55					
		1730	EN				50° 23.46	125° 21.96							
14	NC 24	1758	BC	GRAB		37	50° 23.48	125° 21.96	56		NC 24		A B		
14	NC 23	1917	BC	GRAB		38	50° 23.58	125° 22.40	62		NC 23		A B		
14	NC 14	1943	BE	ROS		39	50° 23.36	125° 22.44	65		177-191	5	H.M.	✓	T: 8.18 S: 29.51
		1946	BO				50° 23.36	125° 22.44		63					
		1950	EN				50° 23.35	125° 22.44							
14	NC 15	2032	BC	ROS		40	50° 23.11	125° 22.16	99		192-198	7	H.M.	✓	T: 8.17 S: 29.33
		2035	BO				50° 23.12	125° 22.14		95					
		2041	EN				50° 23.10	125° 22.08							

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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							
14	NC 16	2108	BE	ROS	U.S.	41	50° 22.88	125° 21.89	151 170		189-196	8	H.M.	✓	T: 8.50 S: 29.18
		2111	BO				50° 22.87	125° 21.83		165					
		2120	CM				50° 22.82	125° 21.83							
14	NC 17	2149	BE	ROS	U.S.	42	50° 22.68	125° 21.65	198 224		197-207	11	H.M.	✓	T: 8.06 S: 29.46
		2154	BO				50° 22.64	125° 21.63		221					
		2208	CM				50° 22.56	125° 21.53							
14	NC 21	10:58	GRAB												PREVIOUS PAGE
14	NC 23	1217	GRAB												PREVIOUS PAGE
14	NC 14	1521		GRAB		43	50° 23.36'	125° 22.44'			NC14		ABx2		
14	NC 15	1604		GRAB		44	50° 23.01	125° 22.57'			NC15		ABx2		
15	NC 16	1757		GRAB		45	50° 22.87	125° 21.84'			NC16		ABx2		2 attempts

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APRIL		2012		VECTOR		2012-15									
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							
15	NC 23	1446	BC	CORG		46	50° 23.60	125° 22.45					S.A.		PEDERSON CORG 2X
															10' on SECOND TRY
15	NC 24	1505	BC	CORG		47	50° 23.48	125° 21.97					S.A.		PEDERSON CORG 1X
															10' on 1ST TRY
15	NC 19	1532	BC	ROS	U.S.	48	50° 21.97	125° 20.51	212		208-218	11	H.M.	✓	T: 8.09 S: 29.31
		1536	BO				50° 21.97	125° 20.50		201					
		1548	EN				50° 21.97	125° 20.50							
15	NC 5	1619	BC	CORG		49	50° 22.06	125° 21.65	214				S.P.		17 - 18' on 1ST TRY
15	NC 20	1631	BC	ROS	U.S.	50	50° 21.94	125° 19.95	161		219-228	10	H.M.	✓	T: 8.08 S: 29.42
		1634	BO				50° 21.95	125° 19.94		152					
		1644	EN				50° 21.95	125° 19.94							
15	NC 21	1712	BC	ROSS	U.S.	51	50° 22.09	125° 19.53	106		229-236	8	H.M.	✓	T: 8.35 S: 29.17
		1714	BO				50° 22.09	125° 19.51		107					
		1722	EN				50° 22.10	125° 19.49							

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							Latitude	Longitude							
15	NC 22	1744	BC	ROS	U.S.	52	50° 22.24	125° 19.06	4350		237-242	6	H.M.	✓	T: 8.32 S: 29.25
		1745	BO				50° 22.24	125° 19.06		45					
		1750	EN				50° 22.25	125° 19.06							
15	NC 22	1743	BC	GRAB		53	50° 22.24	125° 19.05					AB		
15	21	1930	BC	GRAB		54	50° 22.09	125° 19.51					AB		
15	20	2039	BC	GRAB		55	50° 21.95	125° 19.96					AB		
15	NC 4	2138		CORC		56	50° 21.71	125° 22.28	267				SP		2x 10" on 2" TRY
16	NC 25	1626	BC	ROS		57	50° 22.11	125° 22.63	128		243-250	8	H.M.	✓	T: 8.34 S: 29.12
		1629	BO				50° 22.11	125° 22.62							
		1637	EN				50° 22.11	125° 22.61							
16	NC 1	1508	BC	CORC		58	50° 20.81	125° 25.98	335				S.P.		2 TRYS = NOTHING
16	NC 2	1524	BC	CORC		59	50° 21.05	125° 24.63	324				S.P.		2 TRYS - 5" SPONGE

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							Latitude	Longitude							
16	NC 3	1607	BC	CORC		60	50° 21.43	125° 23.10	288		—		S.P.		10" CORC - 1 ST TRY
16	NC 26	1659	BC	ROS	U.S.	61	50° 22.42	125° 22.47	130		251 - 253	3	H.M.	✓	T: S!
		1702	BO				50° 22.44	125° 22.48		132					
		1709	EN				50° 22.42	125° 22.50							
16	NC 26	1720	BC	CORC		62	50° 22.42	125° 22.51	145		—		S.P.		14" - 1 ST TRY
16	NC 25	1726	BC	CORC		63	50° 22.14	125° 22.57	132		—		S.A		18" - 1 ST TRY
16	NC 25	1743	BC	GRAB		64	50° 22.12	125° 22.62	139		—		A.B		SMITH - MAC
16	NC 26	1929	BC	GRAB		65	50° 22.46	125° 22.44	125		—		A.B.		SMITH - MAC
16	NC 27	2024	BC	ROS	U.S.	66	50° 24.27	125° 20.45	155		259 - 267	9	H.M.	✓	T: 8.15 S: 29.35
		2027	BO				50° 24.27	125° 20.44		174					
		2037	EN				50° 24.26	125° 20.40							

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: _____

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

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

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month APRIL				Year 2012			Ship VECTOR				Cruise ID 2012-15				
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	NC 28	2100	BC	ROS	U.S.	67	50° 24.17	125° 20.62	73		268-273	6	H.M.	✓	T: 8.15 S: 29.25
		2101	BO				50° 24.18	125° 20.62		68					
		2107	EN				50° 24.18	125° 20.61							
16	NC 29	2126	BC	ROS	U.S.	68	50° 24.54	125° 20.16	72		274-279	6	H.M.	✓	T: 8.19 S: 29.28
		2128	BO				50° 24.54	125° 20.15		96					
		2134	EN				50° 24.55	125° 20.13							
16	NC 29	2205	BC	GRAB		69	50° 24.54	125° 20.174			—		A.B.		SMITH - MAC
17	BS1A	0036	BC	MOORING		70	49° 29.28	124° 46.15	55		—		H.M.		ADCP MOORINGS
17	BS2A	0131		MOORING		71	49° 35.50	124° 51.46	35		—		H.M.		ADCP MOORINGS

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