

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2009 - 34

DATE:

VESSEL:

PROJECT(S):

From:	APR 17	to:	APR 22
Vector			
MEAD			

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

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Water Properties Group
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Captain:	Don
Second Officer:	Rhona
Fishing Master:	Toni

First Officer: _____
Third Officer: _____

Mission Participants / Agencies: _____

Scientific Personnel: Chief Scientist: Terri Sutcliffe

Name	Watch	Cabin	Name	Watch	Cabin
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HUGH MACLEAN

THOMPSON

CoOH				
ZnKX				

SHANE PETERSEN

Second leg of Mission:	Chief Scientist:	
Name	Watch Cabin	Name Watch Cabin

[illegible]

Data logging computer: HP ComPAQ

Data acquisition program: V7

CTD deck unit make: SBK model: 911 serial number: 0550

Primary CTD

Primary temperature serial number: 4683

Primary conductivity serial number: 1763

Secondary temperature serial number: 2095

Secondary conductivity serial number: 2754

Transmissometer: WET LAB Model: 1 s/n: 105 DR

Fluorometer: Model SEA P.O. 17 Cable gain: 3 x 0.5 s/n:
P S or NO pump? (P)

Oxygen sensor: SCAB1A2 Model: 43 s/n: 1119 P, S or NO pump?

PAR sensor: BIO SPHERICAL Model: _____ s/n: 4565

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?

Secondary CTD

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): _____

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Month APR				Year 2001			Ship VECTOR			Cruise ID 2009-34					
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							
17	TZ-1	1816	BC	ROS		001	48° 54' 37"	123° 16' 84"	198		1-10	10	H.M.	✓	
		1820	BO				48° 54' 38"	123° 16' 82"		196					
		1832	GM				48° 54' 34"	123° 16' 82"							
17	TZ-2	1913	BC	ROS		002	48° 55' 78"	123° 19' 00"	192		11-20	10	H.M.	✓	
		1918	BO				48° 55' 73"	123° 18' 95"		189					
		1932	GM				48° 55' 59"	123° 18' 84"							
17	TZ-3	1953	BC	ROS		003	48° 57' 13"	123° 20' 75"	201		21-31	11	H.M.	✓	
		1959	BO				48° 57' 09"	123° 20' 62"		198					
		2012	GM				48° 57' 04"	123° 20' 51"							
17	TZ-4	2032	BC	ROS		004	48° 58' 65"	123° 22' 34"	237		32-42	11	H.M.	✓	
		2039	BO				48° 58' 59"	123° 22' 22"		232					
		2051	GM				48° 58' 52"	123° 22' 12"							
17	TZ-5	2112	BC	ROS		005	48° 59' 94"	123° 24' 26"	282		43-55	13	H.M.	✓	
		2120	BO				48° 59' 90"	123° 24' 16"							
		2136	GM				48° 59' 86"	123° 24' 04"							

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

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

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Month <u>APRIL</u>				Year <u>2009</u>			Ship <u>VECTOR</u>				Cruise ID <u>2009-34</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							
17	TZ 06	2155	BC	ROS		006	49° 01.41	123° 25.73	314		56-68	13	H.M.	✓	
		2202	BO				49° 01.38	123° 25.63		311					
		2221	GN				49° 01.30	123° 25.31							
17	TZ 7	2241	BC	ROS		007	49° 02.99	123° 27.24	322		69-82	14	H.M.	✓	
		2249	BO				49° 02.97	123° 27.24							
		2308	GN				49° 02.93	123° 27.27							
17	TZ 4.5	2348	BC	ROS		008	48° 59.07	123° 23.67	261		83-95	13	H.M.	✓	
		2355	BO				48° 59.02	123° 23.60							NO SAMPLES
18		0000	GN				48° 58.99	123° 23.58							
18	TZ 4.5B	0043	BC	ROS		009	48° 59.48	123° 22.88	258		83-95	13	H.M.	✓	
		0050	BO				48° 59.49	123° 22.95		256					
		0105	GN				48° 59.56	123° 22.94							
	BS2	1408	BC	ROS		010	49° 38.43	124° 53.67	36		96-102	7	H.M.	✓	
		1416					49° 38.44	124° 53.66		34					

Cast Type:

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Notes: _____

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Month <u>APRIL</u>				Year <u>2009</u>			Ship <u>VECTOR</u>			Cruise ID <u>2009-34</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							
18	BS1	1433	BE	ROS		011	49° 38.89	124° 52.73	18		103-108	6	H.M.	✓	
		1435	BO				49° 38.89	124° 52.73		20					
		1441	EN				49° 38.89	124° 52.71							
18	BS3	1457	BE	ROS		012	49° 37.89	124° 54.55	23		109-114	6	H.M.	✓	
		1459	BO				49° 37.90	124° 54.56		20					
		1504	EN				49° 37.89	124° 54.56							
18	BS4	1527	BE	ROS		013	49° 36.20	124° 50.36	23		115-119	5	H.M.	✓	
		1529	BO				49° 36.20	124° 50.36		21					
		1535	EN				49° 36.19	124° 50.38							
18	BS5	1545	BE	ROS		014	49° 35.85	124° 51.60	43		120-127	8	H.M.	✓	
		1547	BO				49° 35.84	124° 51.60							
		1554	EN				49° 35.86	124° 51.59							
18	BS6	1606	BE	ROS		015	49° 35.64	124° 52.59	28		128-134	7	H.M.	✓	
		1608	BO				49° 35.64	124° 52.59							
		1614	EN				49° 35.66	124° 52.58							

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Month <u>APRIL</u>				Year <u>2009</u>			Ship <u>VECTOR</u>				Cruise ID <u>2009-34</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							
18	BS 7	1634	BC	ROS		016	49° 34.00	124° 52.31	28		135-140	6	H.M.	✓	
		1636	BO				49° 33.99	124° 52.32							
		1642	EN				49° 33.97	124° 52.33							
18	BS 8	1653	BC	ROS		017	49° 34.15	124° 51.55	50		141-147	7	H.M.	✓	
		1655	BO				49° 34.15	124° 51.55							
		1702	EN				49° 34.14	124° 51.55							
18	BS 9	1712	BC	ROS		018	49° 34.39	124° 50.96	27		148-153	6	H.M.	✓	ARCHING ON UPCAST
		1714	BO				49° 34.40	124° 50.97							ONLY
		1721	EN				49° 34.40	124° 50.94							
18	BS 10	1751	BC	ROS		019	49° 32.01	124° 51.03	23		154-159	6	H.M.	✓	
		1753	BO				49° 32.02	124° 51.03		19.8					
		1758	EN				49° 32.00	124° 51.03							
18	BS 11	1806	BC	ROS		020	49° 32.20	124° 50.43	47		160-166	7	H.M.	✓	
		1808	BO				49° 32.21	124° 50.44							
		1815	EN				49° 32.17	124° 50.45							

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Bottle Firing Method:

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

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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							
18	BS 12	1822	BC	ROS		021	49° 32.37	124° 50.06	34		167-172	6	H.M.	✓	ARCHIVING ON
		1825	BO				49° 32.33	124° 50.08							UPCAST ONLY
		1831	EN				49° 32.35	124° 50.14							
18	BS 13	1920	BC	ROS		022	49° 31.36	124° 48.47	44		173-178	6	H.M.	✓	
		1923	BO				49° 31.36	124° 48.46		4					
		1928	EN				49° 31.36	124° 48.46							
18	BS 14	1941	BC	ROS		023	49° 31.08	124° 48.74	47		179-185	7	H.M.	✓	
		1943	BO				49° 31.08	124° 48.74		24					
		1949	EN				49° 31.08	124° 48.74							
18	BS 15	2006	BC	ROS		024	49° 30.62	124° 49.35	26				H.M.	✓	
		2008	BO				49° 30.63	124° 49.35		24	186-191	6			
		2013	EN				49° 30.64	124° 49.35							
18	BS 16	2043	BC	ROS		025	49° 29.27	124° 45.76	44		192-197	6	H.M.	✓	
		2045	BO				49° 29.27	124° 45.75		42					
		2050	EN				49° 29.28	124° 45.75							

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Bottle Firing Method:

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Month <u>April</u>				Year <u>2009</u>				Ship <u>VECTOR</u>				Cruise ID <u>2009-34</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							
18	BS 17	2059	BE	ROS		026	49°29.04	124°46.17	55		198-204	7	H.M.	✓	
		2103	BO				49°29.05	124°46.16		53					
		2109	EN				49°29.05	124°46.14							
18	BS 18	2117	BE	ROS		027	49°28.92	124°46.52	26		205-210	6	H.M.	✓	
		2118	BO				49°28.91	124°46.52		24					
		2124	EN				49°28.91	124°46.44							
18	BS 19	2137	BE	ROS		028	49°28.03	124°45.19	23		211-216	6	H.M.	✓	
		2140	BO				49°28.02	124°45.19		17					
		2145	EN				49°28.03	124°45.19							
18	BS 20	2156	BE	ROS		029	49°28.36	124°44.78	40		217-223	7	H.M.	✓	
		2158	BO				49°28.37	124°44.80		37					
		2204	EN				49°28.39	124°44.86							
18	BS 21	2214	BE	ROS		030	49°28.58	124°44.54	21		224-229	6	H.M.	✓	
		2215	BO				49°28.59	124°44.54		19					
		2221	EN				49°28.58	124°44.57							

Cast Type:

BOT = Bottle cast, no CTD
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SFT = Fish Set

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Bottle Firing Method:

US = Up / Stop

UN = Up / No stop

Time Code:

BE = Beginning Time of Cast

BO = Bottom Time of Cast

CBT = End Time of Cart

DE = Deployment Time

MR = Messenger Release Time

DE - Denver Morning Time

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

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