

DAILY LOG BOOK

MISSION
NUMBER

2005-09

DATE:

From: MAY 25 to: MAY 29

VESSEL:

VECTOR

PROJECT:

INLETS, MULTIBEAM ETC.

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

Captain: Brian Pennel
 First Officer: Roger
 Second Officer: Paul
 Third Officer: _____

Mission Participants / Agencies: IOS/OSAP/CMS

Scientific Personnel:

Name	Watch	Cabin	Name
David Spear			

Name	Cabin	Watch
Brian Bornhold		
Dave Thornhill		
Sheila Tews		

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

Data logging computer: AC 62392
Data acquisition program: Seasave

CTD deck unit make: Seabird model: 11 plus serial number: 0424

Primary CTD

Make: Seabird model: 9 serial number: 0585
 Primary temperature serial number: 2968

Primary temperature serial number: 2968

Primary conductivity serial number: 2173

Secondary temperature serial number: 2710

Secondary conductivity serial number: 2424

Transmissometer: Model: Ches
2924

Fluorometer: Model Seamount Model: Chester
Cable gain: 1/2

Oxygen sensor: _____
 Cable gain: $\frac{16}{100}$
 Model: 505

oxygen sensor: _____ Model: SBE

PAR sensor: _____ Model: _____

Other sensors: _____
Model: _____

Other sensors:

Other sensors:

Other sensors: _____
Other sensors: _____

Other sensors:
Primary CTD

Make: _____

Make: _____ model: _____ serial: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____

Fluorometer: Model _____ Cable gain: _____
Model: _____

oxygen sensor: _____
Cable gain: _____
Model: _____

any gas sensor.	Model: _____
AR sensor:	Model: _____

Other sensors: _____ Model: _____

Other sensors:

Other sensors:

Other sensors:

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

- May 24 - Multibeam - Low catcher installed ~ 0900 - 1600
 - Testing & Set up complete 1205
 - Wincles & A-Frame - loaded ~ 1500 - 2 hours late
 - secured
 - Test CTD Rosette on deck ~ 1645
 - Leave IOS ~ 1700

- May 25 - CTD Station Discovery Channel 0530
 - Conduct Multibeam transects over Ripple Rock
 - Fire & Boat Drill - 1245 - 1345
 - Arrive Knight Inlet KNS - 1730
 - Conduct CTD Rosettes to end of Inlet with multibeam between stations

- May 26 - 0330 - Break off at head of Inlet - drift overnight
 - 0730 - Start Multibeam around head of Inlet & deltas and head south
 on west side of Inlet

- May 27 - Continue multibeam survey of Knight Inlet North of Glendale Cove
 - break off at 2230 to conduct oceanographic program

- May 28 - Start Stations for Dario Studdi ~ 0015
 - Finish JSI at 2018
 - Head South down Johnstone Strait

- May 29 ~ 0330 - Conduct Multibeam in Plumper Bay while waiting for slack at
 Seymour Narrows

May 29 - 0530 Transit Seymour Narrows - Sounding en route
~ 0600 - pull up ram and head for home ✓
- 1700 Arrive ICS and unload

DAILY LOG

Ocean Sciences and Productivity Division

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Month				Year			Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
25	DC	1253	BE	ROS		1	50°06.40	125°18.03	117			—	ST		Sound Velocity Profile conducted as well (SUP)
		1257	BO				50°06.38	125°18.02		102	—				
		1340	EN				50°06.36	125°18.17.99							
26	KN 5	0030	BE	ROS	US	2	50°41.58	125°47.08	400		1-16	15	ST+	✓	
↓		0039	BO				50°41.60	125°47.25		366			D.S.		
		0057	EN				50°41.62	125°47.62					↓		
	KN 6	0305	BE	ROS		3	50°45.22	125°41.11	521		—			✓	
		0317	BO				50°45.09	125°41.33		515					
		0329	EN				50°45.06	125°41.46							
	KN 7	0421	BE	ROS		4	50°48.10	125°37.21							
		0433	BO				50°48.03	125°37.16	515				ST.		
		0445	EN				50°47.98	125°37.12		510					
	KN 8	0544	BE	ROS	US	5	50°52.27	125°38.76	491						
		0556	BO				50°52.16	125°39.03		485	17-32	16			
		0617	EN				50°51.86	125°39.37							
	KN 9	0713	BE	ROS		6	50°54.28	125°32.82	415						
		0727	BO				50°54.09	125°33.01		410	—				
		0739	EN				50°53.94	125°33.14							

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

USW = sea water loop
 MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

US = up / stop
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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Month <u>MAY</u>				Year <u>2005</u>			Ship <u>VECTOR</u>				Cruise ID <u>2005-09</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
26	KN10	0840	BE	ROS		7	50°58.59	125°33.52	337		—		ST+		
		0849	BO				50°58.55	125°33.55		327			D.S.		
		0857	EN				50°58.51	125°33.56					↓		
26	KN11	0948	BE	ROS		8	51°02.53	125°33.98	226					✓	
		0954	BO				51°02.55	125°33.98		207					
		1000	EN				51°02.56	125°33.97							
26	KN5	2138	BE	ROS		9	50°41.64	125°47.23	368				ST	✓	
		2147	BO				50°41.65	125°47.60		334					
		2151	EN				50°41.65	125°47.69							
27	KN7	0013	BE	CTD		10	50°48.107'	125°37.286'	522	520			DS		CHS SVP profile
		0022	BO				50°48.074	125°37.208'							2m off bottom
		0028	EN				50°48.040	125°37.166							-1.01m offset
28	KN2	0716	BE	ROS	US	11	50°39.31	126°10.85	180						
		0723	BO				50°39.37	126°10.56		175	33-43	11	ST	✓	
		0741	EN				50°39.52	126°10.09.75							
	TRC 0.5	0828	BE	ROS		12	50°40.74	126°14.54	151						I left the nuts
		0833	BO				50°40.74	126°14.54		145					out for ~40 min.
		0837	EN				50°40.	126°14.							before freezing. ops. (ST)

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							Latitude	Longitude							
28	TRC 1.0	0920	BE	ROS		13	50°43.62	126°10.85	280		—		ST		
		0927	BO				50°43.63	126°10.86		280			↓		
		0935	EN				50°43.63	126°10.88							
28	TRC 1.5	1006	BE	ROS		14	50°45.66	126°09.02	205		—				
		1012	BO				50°45.68	126°08.99		191					
		1016	EN				50°45.68	126°08.99							
28	TRC 2.0	11	BE	ROS		15	50°49.2	126°12.6	212						
		1114	BO				50°49.22	126°12.68		201					
		1119	EN				50°49.230	126°12.674							
28	TRC 2.5	1219	BE	ROS		16	50°50.376	126°19.645	281		44-57				3 m off bottom
		1227	BO				50°50.365	126°19.584		282					
		1246	EN				50°50.400	126°19.423							
28	TRC 3	1331	BE	CTD		17	50°48.936	126°25.540	232						
		1338	BO				926	695		226					3.3 m off bottom
		1344	EN				913	638							-0.6m offset
28	PPI	1416	BE	CTD		18	50°48.838	126°31.500	153						
		1424	BO				857	496		151					2 m off bottom

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							Latitude	Longitude							
28	KINO	1516	BE	ROS		19	50°51.767	126°37.229	411	409	58-72	15			low oxygen below
		1523					50°51.746	126°37.210							200m ~ 1.6m/l
		1538	EN				50°51.672	126°37.158							0.9m off bottom
28	Kin1	1605	BE	CTD		20	50°59.600	126°34.450	474						Oxygen dies at ~170
			BO				50°53.592	126°34.424		473					mid water minimum ~180m
		1617	EN				50°53.562	126°34.405							0.9m off bottom
28	Kin1-5	1657	BE	ROS		21	50°56.150	126°29.027	476		73-88	16			Mid water O ₂ min 100m
		1704	BO							472					3.6m off bottom
		1721	EN				50°56.267	126°29.422							
28	Kin2	1801	BE	CTD		22	50°55.502	126°23.215	374	372					1.6m off bottom
		1807	BO				.530	.310							
		1811	EN				50°55.540	126°23.342							
28	Kin3	1900	BE			23	50°54.85	126°14.70	194						Coldest Water @ 50m
		1904	BO				50°54.845	126°14.704							Touched bottom
			EN				50°54.846	126°14.705							Oxygen reduced layer ^{near surface}
28	SC	2145	BE			24	50°53.371	126°45.680	235						
		2150					340	509		238					1.4m off bottom
		2153													

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