

DAILY LOG BOOK

MISSION
NUMBER

2006-10

DATE:

VESSEL:

PROJECT:

From:

May 29 - Jun. 4 - Jun. 12, 2006

CCGS Vector

ECOHAB / La Penouse / Juan de Fuca /
Aquaculture.

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

Transmissometer:	Model:	s/n:	P, S or NO pump?
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:	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?

Other sensors:	<i>Alfalfa</i>	s/n:	<i>1024</i>	P, S or NO	γ dund
Other sensors:		s/n:		P, S or NO	γ dund
Other sensors:		s/n:		P, S or NO	γ dund
Other sensors:		s/n:		P, S or NO	γ dund
Other sensors:		s/n:		P, S or NO	γ dund

Transmissometer:	Model:	s/n:	7230R	NO 14412
Fluorometer: Model	Cable gain:	s/n:	2356	P, S or NO - dummy?
Oxygen sensor:	Model:	s/n:	0766	P, S or NO - dummy?
PAR sensor:	Model:	s/n:		

Make: SRF model: 911 serial number: 0443

Primary temperature serial number: 2968

Primary conductivity serial number: 1766

Secondary temperature serial number: 2105

Secondary conductivity serial number: 1729

CTD deck unit make: S&E model: 11 serial number: 0425

Data logging computer: _____

Data acquisition program: _____

[illegible][illegible]

Bruc Spear
Hush Halloway
S49d
S49d

Lucius Perreault	Port	
Scott Rose	Port	

Darius Stachni	ChiofSci
Maria Galbraith	FemaleSci

Second leg of Mission: Party Chief: Dario Stacchi

[illegible][illegible]

Hindman / enigma

_____ Dave Spear
_____ Lucas Perreault

Name	Watch	Cabin	Name	Watch
Jim Johnson	Early Chir.	10m Jansse		

MISSION Participants / Agencies:

Second Officer: Stephane Third Officer: _____

Don Westwood
First Officer: Gary Macdonell

André Quatre *

Date Time PDT

- May 29

- loading ship

- which swap

- load rating A-frame

- setting up + depart 1900 hrs

heading for EH2 deployment.

- on board D. Spear, A. Pencauff, Jo Johnson.

- May 30

- morning briefing meeting

discuss buoy launch ops. - very successful.

- on station 1130 hrs

sounding bottom for correct depth.

- assemble mooring after lunch

- tide @ Destruction Island = +.8 ft

app +.25 m. and rising.

- app. 1/2 m swell - calm day - pretty much ideal.

- marked spot at 45.5 - 46.0 m depth.

also app. 2400 ft east of

EH2-C original spot which

was too deep. by app. 2m.

1447

- deployed EH2-D

- 47.2 m + 1.7 m tide

= 45.5 m datum

- 47.0 35.861

124.0 35.4150

- flat calm

- staying app. 10 min.

to ground truth problems

Arqos

PTT 3973

working.

Light

- ok

5 fl. x 1 sec

15 sec silent

amber

2 min.

- head for AS04 recovery.

Date Time PDT

May 31 0703

- on station ASD4 - E fore recovery
- sent CH15 to # 782

186m rec'd + exel.
162m.
161m.

- sighted on surface - I was intending to send "enable" but sent "release" by mistake.

0727

- all on board - head in to load EH3 equipment + service ASD4 for deployment.

* + pick radar tech for ship's system.
- also crew member had to go to doctor.

- RT161 #246 showed corrosion excessively on connecting bolts on hook end, both top + bottom end plates. transducer cap securing straps.
NB: has to be replaced by spare RT161.

app. 0800

- tie up at Huron St. Base
- prep. mooring for redeployment

- equipment delivered to Huron St. by Scott as requested except buoy towers - had to ask Phil + Luc to bring them down
- data from both ADCP, SC was good - Vemco's yet to be down loaded.

app. 1100

- Luc arrived with towers
- ADCP compass swung on shore * no external battery pack deployed
- we load for ASD4 deployment - F20 recovered, + EH3 11.11.

Date Time PDT

May 31 091330

-depart Huna St. for deployment of AS04-F

-deploy AS04-F in 116.2 m depth datum at 48° 18.008' 123° 22.535'

* letter

- Vector needs new crane

4500 lbs over stern.

Dave

5000 lbs 25 ft

Rob

Presently 32 ft 2500 lb. - single action

- A-frame side eye rating at 9T makes no (one thing at a time) sense when mid span eye is 4.5T. - single small ring winch pad. should be a double ring

1836

-head for JFERC for recovery

-approaching JFERC

1838

-stopped at mooring

-ranges 190, 194, 195 - move off to release position. both release replying, one on 8kHz, one on 9kHz. = 191m range (above)

- 366/364 8kHz/9kHz range.

1849

- ACDE rec'd positive response. to #460

- not sighted we are 4 cables away.

1901

- returning to cable off position.

-monitoring Arps + VHF chan 70

Date Time PDT

886-3764

May 31 1907

- 1/2 cable need range 335/335

8 kHz / 9 kHz

switched transducers.

- sent ACDE 2 x getting noise.

- 9 kHz clean signal 8 kHz very noisy.

1913

- range 498. sent ACDE rec'd positive response.

range 485. app. 2 cable off. returning to 1 cable away.

1921

- 1 cable off - double check position.

- 9 kHz range = 258 m, 258 m sent ACDE positive response.

1923

- sending AB EF rec'd positive response range 265 m.

- sending ACDE " " " "

1926

- sighted on surface.

- being rec'd on Chan. 70 VHF.

- light flashing

- Argos 4014 working

- finger working

- on deck - heavy corrosion to stainless hose clamps and ADCP hardware.

app. 2000

- data on ADCP looks good

- attempting to slow load at higher band rate not working

- heading for E43 for deployment.

- slow loading overnight.

Date Time PDT

Jun. 1

0700

- on site EH3 for deployment
- had off app. 1-2 hr.

- seas to 1m + swell overcast.

- 10-20 knot winds

- concerns of safety of ops.

- consider going to Efringham.

B542 Rel

B541 Fms

1204

- mooring deployed trailing aft + anchor deployed hanging vertical.

1259

- deployed. EH3-D in 128.8 m on sounder
at 48° 17.725' 125° 27.296'

- counter on winch not working correct mooring laid on bottom
in slightly deeper water than when it was released

- we were approaching station from deeper water to shallower.

- we had over passed station during deployment and had to circle around
and tow back

- head for JFRC for deployment. prep. mooring on the way

1403

- deployed JFRC-I 48° 21.527' 124° 12.734'

187.2 on sounder.

- head for Haven St. base to load EH1 mooring and allow.

Captain Quayle

(relief captain) to leave and usual captain.

Don Westwood to join.

Date Time PDT

Jun. 2 0730

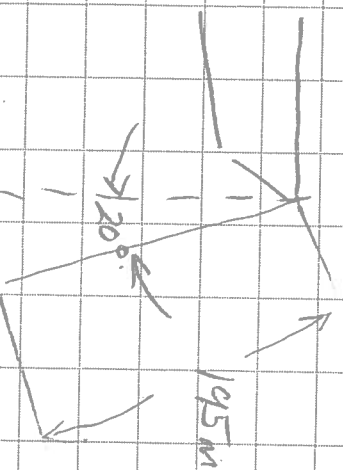
- tie up at Heron St.
- load EHI buoy + anchor + 4 SS28 buoys for second leg
- crew member has to see doctor
- Don Westwood joins ship
- called David + Rick

1115 - depart for EHI deployment.

- prep. along the way
- squally weather wind freshening.

2059
(June 3 0359 UTC)

- deploy EHI-1-D 48° 29.39' 124° 41.91' lab position.
in 256.8 m + 1.8 m tide = 255 m datum



bridge position
48° 29.39'
124° 41.91'

- head for EHIing haw.
- check out SBT 2.5 system on the way.

DAILY LOG

Leg. 1 May 29 - Jun 4 CTD's done by SBE25 #0443
Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID										
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Latitude	Position	Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
3	EFF09	0856	/	CTD	/	001	49 05.56	125 11.66	34	30	/					Prime may not have turned because water is fresh??
3	EFF02	0845	/	CTD	/	002	49 05.00	125 10.31	68.5	65	/					
3	EFF03	0936	/	CTD	/	003	49 04.25	125 09.40	119.5	118	1-2	2				Samples were stinky!!
3	EFF04	0945	/			004	49 03.13	125 08.59	51.5	48						
3	EFF05	1002	/	CTD/KOS	/	005	49 02.34	125 09.15	208	205	3-4					Bottom sample smelly!!
3	EFF06	1032	/	CTD	/	006	49 01.77	125 09.18	150	145						
3	EFF07	1048	/	CTD	/	007	49 01.85	125 09.40	123	120						
3	EFF08	1104	/	CTD		008	49 00.67	125 10.23	87	85						
3	EFF09	1126	/	CTD	/	009	49 00.10	125 10.35	60	58						
3	EFF10	1208	/	CTD/KOS	/	010	48 59.84	125 11.23	100	95	5+6					
3	EFF11	1236	/	CTD	/	011	48 59.11	125 11.25	90	88						
3	EFF12	1305	/	CTD	/	012	48 58.00	125 10.50	93	90						H+ Bottom
3	EFF13	01325	/	CTD	/	013	48 56.50	125 10.70	102	100						

Cast type: BOT = bottle cast, no CTD
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USW = sea water loop
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bottle firing method:
US = up/stop
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Date Time PDT.

June 3 0700

- at entrance to Effingham

(ship over night in Bartley Sound)

- steam up to head & start CTD's

app 1400

- CTD's done

- head for 1.0.5 to be in San morning early
- check EHL on the way in.

app. 2029

- checked EHL

- both engines working
- too light to check buoy light.
- mooring has not moved
- riding with app. 1 ft of black above water line.

June 4

0807

- tie up at 1.0.5.

- offload mooring equipment from WCU
- load for Knight Islet.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			VECTER			Cruise ID			2006-10	
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								
6	K1W02	2015	RE	MOR			50' 39.38'	126° 9.84'								
6	TC502	2152		MOR			50° 43.17	126° 11.99								
7	PP1	0218	BE	ROS		11*	50 48 81	126 31 51	150			0	H.M./D.S.	✓	ALTIMETER SLOW TO FIND BOTTOM	
		0222	BU				50 48 82	126 31 52		135						
		0225	EN				50 48 82	126 31 52								
7	TRC 3	0302	BE	ROS		12*	50 48 97	126 25 36	232			0		✓		
		0307	BO				50 48 96	126 25 34		220						
		0312	EN				50 48 93	126 25 36								
7	TRC2.5	0346	BE	ROS		13*	50 50 39	126 19 73	283		7-19	13	H.M./M.G.	✓		
		0351	BO				50 50 38	126 19 69		275						
		0408	EN				50 50 39	126 19 71								

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June 6, 2006

KLM-02 Recovery

- on station

1316 POT

170m

170m

- More Off

- Sent BDFG

1316 POT

236

237

- On Survey

RCM # 8820

- paddle wheel spinning freely but not far long - some clapping
- minimal growth (hydroids)

RCM # 5758

- rotor spinning freely
- minimal growth

RCM # 7908

- rotor spinning freely but substantial hydroid growth on the rotor frame
that could impeding rotor

RCM # 5391

- rotor spinning freely, minor growth

*

I incorrectly started numbering the casts with event number 11. It should have been 14.

Casts 1-13 on Tows 1 leg were taken with the SBE-25

Casts 11 to 55 on my leg were taken with the SBE 911

[Note: Cast numbers of leg 2 were later changed to avoid duplication]

Note: Event Numbers for leg 2 were changed in processing by adding 3 to each to avoid duplication. G. Gattini

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month June			Year 2006		Ship VECTRA		Cruise ID 2006-10								
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
07	Bos 1	0500	BE	ROS		14*	50	51.80	126 10.85	118	20-27	8	HM/MG	✓	
		0503	BO				50	51.80	126 10.86	110					
		0512	EN				50	51.80	126 10.86						
07	TRC 2	0541	BE	ROS		15*	50	49.21	126 12.75	200	—	—	HM/MG	✓	CTD ONLY
		0546	BO				50	49.20	126 12.75	190					
		0550	EN				50	49.21	126 12.74						
07	TRC 1.5	0627	BE	ROS		16*	50	45.61	126 09.09	224	—	—	HM/MG	✓	CTD ONLY
		0632	BO				50	45.61	126 09.10	215					
		0637	EN				50	45.62	126 09.09						
07	TS 1		BE	ROS		17*	50	47.201	126° 2.341'	172	25-36	9	DS/SR	✓	CTD/Rosette
		0727	BO				50°	47.202	126° 2.324						
		0747	EN				50°	47.201	126° 2.305						
07	TRC 1	0834	BE	ROS		18*	50°	43.618	126° 10.819	225	37-49	13	DS/SR	✓	CTD/Rosette
		0845	BO				50°	43.636	126° 10.835						
		0909	EN				50°	43.644	126° 10.839						

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

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* Add 3 to each event number ... G-Gation

TCS-02 Recovery 1448 POT

on station

Rangy 211 - 212

More off station

249 257

Sent BOFH 1452

on subsona

RCM #2754 - rotor spinning but not freely as it is loaded with hydroids on the rotor and the rotor guards (top)

RCM #7915 - rotor spinning but not freely as there is heavy fouling by hydroid growth on the rotor guard (top side)

RCM #4955 - rotor obstructed by heavy hydroid growth between bottom of rotor & bottom bearing

RCM #4240 - rotor spinning freely

1528 - On deck

DAILY LOG

Ocean Sciences and Productivity Division

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Month			Year			Ship			Cruise ID			Comments		
JANU			2006			VICTOR			2006-10					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned
7	TRCOIS	0946	BE	CTD		019*	50° 40.817	126° 14.633	157	150	—	—	05/5R	CTD only
		0953	B0				50° 40.383	126° 14.636						
		0957	EN				50° 40.376	126° 14.634						
2	Ku2	1033	BE	CTD		020*	50° 39.319	126° 10.925	186	175	—	—		CTD only
		1041	B0				50° 39.354	126° 10.933						
		1045	EN				50° 39.383	126° 10.933						
7	TCS03	1736	DE	MOR			50° 43.704	126° 10.459	223					
7	GR3	1943	BE	DEF		400145	50° 50.299	126° 18.420						Deployed amid-channel as test
7	GR04	2148	RE				50° 50.475	126° 19.59						
7	GR07	2208	DE	DEF		SCOTT	50° 50' 52.7	126° 18.400						
			RE											
7	GR02	2232	DE	DEF		ROV	50° 50.473	126° 18.413						
8		1457	RE											
7	GR03	2234	DE	DEF		LUCIUS	50° 50.299	126° 18.420						
8	GR04	1502	RE				50° 48.523	126° 13.80						

* Add 3 to each event number. G taken

[illegible]

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID										
June		2006		V6070A		2006-10										
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Latitude	Position	Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
7	CPS Cromer	22:34	DE	DEK		Dario	50° 50.165		126° 18.434							DARIO grounded
8		1508	RE				50° 49.299		126° 13.71							
7	CPS Cromer	22:47	DE	DEK		SIL	50 50 061		126° 18 440							SIL grounded
		1509	RE				50° 49.193		126° 13.66							
8	FiSO	0113	BE	CTD		021*	50° 45.487		126° 44.084	323		50,51452	3	DS/os	✓	3 salinity samples at 310.
		0122	BO				50° 45.484		126° 44.129							
		0130	EN				50° 45.496		126° 44.176							
9	Wicklow	0100	DE	Light Trp			50° 47.285		126° 41.605							SFU Light trap
		~ 1600	RE											Hugh + Dave		
8	FiS	0233	RE	RWS		022*	50° 47.020		126° 36.676	335		53-65	13	DS/os		Rosette
		0242	BO				50 47 020		126 36.672							
		0303	EN				50 47.00		126 36.68							
8	Kin O	0415	BE	ROS		023*	50 51.70		126 37.19	402		66-79	14	H/A/G	✓	Rosette
		0424	BO				50 51.71		126 37.18		395					
		0445	EN				50 51.71		126 37.20							

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INSTITUTE OF OCEAN SCIENCES

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June			2006			V E C T O R			2006-10						
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
8	PP1	0526	BE	Ros		024*	50 48.81	126 31.53	152		—	0	H.M.H.G.	✓	CTD ONLY
		0530	BO				50 48.80	126 31.54		140					
		0533	EN				50 48.80	126 31.53							
8	TRC3	0624	BE	Ros		025*	50 48 94	126 25 41	238		80-91	12		✓	
		0629	BO				50 48 96	126 25 40		220					
		0646	EN				50 48 95	126 25 34							
8	TRC2.5	0703	BE	CTD		026*	50° 50.43'	126° 19.235'	290		92				SAL ONLY BUT NO WATER IN BESSAU. CHECKED SPOT and Pressure knob but both were engaged. CP
		0736	BO				50° 50 381	126° 19 351		280					
		0740	EN				50° 50.330	126° 19.257'							
8	TRC2	0906	BE	Ros		027*	50° 49 089	126° 18.630'	216		93-103	11		✓	
		0912	BO				50° 49.86	126° 18.671'		205					
		0925	EN				50° 49.85	126° 18.770'							
8	RuP	1653	BE	Ros		028*	50 46 56	126 30 59	234		104-114	11			ROSETTE
		1658	BO				50 46.57	126 30.61		221					
		1711	EN				50 46 52	126 30.71							

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8	PP1	1750	BE	CTD		029*	50°48.802	126°31.490	152						
		1755	BO				797	483		145					
8	KNO	1939	BE	ROS		030*	50°51.678	126°37.210	406		115-116				SAL
		1949	BO				50°51.707	126°37.202		389					
		1959	EN				50°51.724	126°37.183							
8	SC	2101	BE	ROS		031*	50°53.400	126°45.737	235		117-128	12			Sort Doring Huggie, Dave to deploy light from 128. Mura and Dave cast back to fish farms. Red box
		2107	BO				50°53.417	126°45.727		225					
		2124	EN				50°53.419	126°45.700							
8	WPO,5	2208	BE	CTD		032*	50°52.860	126°53.228	162						
		2212	BO				50°52.867	126°53.231		150					
		2215	EN				50°52.853	126°53.231							
8	WP	2244	BE	ROS		033*	50°50.815	126°56.362	182		129-138				
		2248	BO				50°50.840	126°56.380							
		2300	EN				50°50.836	126°56.412							

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JUNE			2006			VECTOR			2006						
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
9	QCS 2	0009	BE	CTD		0344	50°	46.571	127° 02.291	824		/	055/05		CTD
		0016	BO				50°	46.582	127° 02.30						
		0021	EN				50°	46.577	127° 02.342						
9	QCS 1.5	0108	BE	ROS		0354	50°	42.858	126° 55.564	144		139-147	9		Route
		0113	BO				50°	42.872	126° 55.572						
		0123	EN				50°	42.864	126° 55.612						
8	FOX IS.	1800	DE	Light trap			50°	43.00	126° 35.86				055 inside		Marty's Fish pen
9		1745	RE				50°	43.00	126° 35.86						
8	Cypress Hbr	2015	DE	Light trap			50	50.244	126 40.223				054H +055		Across from furm
9		1817	RE				50	50.244	126 40.223						using self contained battery pack is 55 hours
8	Cypress #1	2115	BE	NET			50°	50.014	126° 40.064	Flow	30945 to 311291		055		Yo-Yo tow (0-1m)
		2120	EN				50°	50.036	126° 40.199						

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

DAILY LOG										Ocean Sciences and Technology Division									
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				
8	Cypress#2	2135	BE	NET			50° 50.069	126° 40.238	Flow:	31129 to 311508		M _{GTS}			Y _o -Y _o fous o-1m Flow under reading low				
		2140	EN				50° 50.089	126° 40.313											
8	Cypress#3	2149	BE	NET			50° 50.171	126° 40.309	Flow:	311508 to 31184		M _{GTS}			Y _o -Y _o fous o-1m Flow reading low propeller not turning freely				
		2158	EN				50° 50.252	126° 40.253											
8	Cypress#4	2308	BE	NET			50° 50.270	126° 40.222	Flow:	312040 to 312466		M _{GTS}			Y _o -Y _o fous o-1m propeller not turning freely				
		2316	EN				50° 50.282	126° 40.066											
8	Cypress#5	2320	BE	NET			50° 50.342	126° 40.057	Flow:	312466 to 313392		M _{GTS}			Y _o -Y _o fous o-1m propeller not turning freely				
		2342	EN				50° 50.408	126° 39.770											
9	QCS1	0212	BE	CTD		036*	50° 40.010	126° 46.278	168					✓	CTD				
		0216	BC				50° 44.069	126° 46.291											
		0219	EN				50° 44.072	126° 46.321											

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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							
9	RP1	0253	BE	ROS		037*	50° 40.350	126° 39.678	80	76	148-153	C	DS+05		Rosette
		0256	BU				50° 40.350	126° 39.692							
		0303	EN				50° 40.37	126° 39.71							
9	RP3	0347	BE	ROS		038*	50° 43.43	126° 34.73	70		—	—	W/M.C.	✓	CTD only
		0349	EO				50° 43.43	126° 34.72		60					
		0351	EN				50° 43.42	126° 34.72							
9	SP1	0645	DE	DRF		DAR10	50° 40.318	126° 05.440							1 ST DEPLOYED
10		1424	RE				50° 39.340	126° 11.685							
	SP2	0725	DE	DRF		RON	50° 40.08	126° 05.39							3 RD DEPLOYED
10		1427	RE				50° 39.142	126° 14.593							
							(50.6524)	(126.2432)							
9	SP3	0718	DE	DRF		SCOTT	50° 39.866	126° 05.32							2 ND DEPLOYED
			RE				✓	✓							GPS dr. Hs. Filed

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

DAILY LOG			OCCUR DURING			SHIP			CRUISE ID			2006-10			
Month		JUNE		Year		2006		VECTGR		Cruise ID		2006-10			
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							
9	SP4	0739	DE	DRF		JILL	50° 35.66	126° 05.12							
10		1422	RE												
9	SP5	0756	DE	DRF		NICK	50° 39.48	126° 04.95'W							
10		1405	RE				50° 38.868	126° 06.075							A ground on Seabird
9	SWI	1811	BE	ROS		0394	50° 38.105	126° 41.030	74	65	154-159	6	057 hrs	✓	Rosette
		1814	BO				50° 38.120	126° 41.058							
		1821	EN				50° 38.134	126° 41.062							
9	KNO	1910	BE	CTD		0408	50° 38.278	126° 34.950	64						
		1913	BU				50° 38.286	126° 34.962							
		1914	EN				50° 38.288	126° 34.972							
9	KNI	2041	BE	ROS		0414	50° 38.10	126° 25.31	256		166-171	12	11.15/15.10		Rosette
		2047	BO				50° 38.10	126° 25.27		245					
		2102	EN				50° 38.09	126° 25.21							

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Month			June		Year		2006		Ship			VECTOR		Cruise ID			2006-10	
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			
9	PE-7km	2136	B0	ROS		042	50°39.31	126°25.29	125		172-179	8	4 th /D.S.R		ROSETTE			
		2139	B0				50°39.32	126°25.30		115								
		2147	E1				50°39.33	126°25.31										
9	PE-6km	2207	B0	ROS		043	50°39.632	126°25.942	118		—	—	"		CTD ONLY			
		2210	B0				.635	.943		112								
		2212	E1				.641	944										
9	PE-5km	2226	B0			044	50°39.900'N	126°26.708'W	126	115	180-187	8	4 th /S.R					
		2229	B0				50°39.883'N	.701'W	126	115								
		2239	EN				.895'N	.708'W	126	115								
4	PE-4km	2258	B0	CTD		045	50°40.129'N	126°27.440'W	116		—	—	4 th /S.R		CTD ONLY			
		2300	B0				.124'N	.431'W		105								
		2304	E1															

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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							
9	PE-3km	2340	BE	ROS		046*	50°40.323	126°28.200	65	55	188-192	5	LD, D50		ROS
		2342	BO				50°40.344	126°28.211							
		2346	EN				50°40.335	126°28.210							
10	PE-2km	0003	BE	ROS		047*	50°40.333	126°29.058	44						CTD
		0004	BO				50°40.367	126°29.071		35					
		0006	EN				50°40.376	129°29.093							
10	PI-1km	0018	BE	ROS		048*	50°40.091	126°29.856	30		193-195				ROS - Samples included with Green box PE-3km
		0020	BO				50°40.092	126°29.854		20					
		0022	EN				50°40.094	126°29.855							
10	CC1	0140	BE	ROS		049*	50°36.304	126°21.379	116		196-202	7			ES
		0143	BO				50°36.300	126°21.379		105					
		0151	EN				50°36.293	126°21.402							
10	CC2	0250	BE	CTD		050*	50°34.201	126°29.264	69				DS, ENG	✓	CTD only
		0254	BO				50°34.202	126°29.264		60					
		0257	EN				50°34.206	126°29.270							

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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								
9	SPast#5	2304	BE	NET			50° 39.536	126° 35.799	- many schools of shiners						Yolo flows 0-1.5m								
		2325	EN				50° 39.670	126° 35.651	- 4 large schools of juvenile salmon														
									- eel grass beds														
9	SPast#6	2334	BE	NET			56° 39.017	126° 34.224	- eel grass beds						Yolo flows 0-1.5m								
		2351	EN				56° 39.128	126° 34.458															
10	For Is	0125	DE	MOR			50° 43.00'	126° 35.86	- light trap deployed inside juvenile salmon pen														
		1625	RE				"	"	- light trap deployed about 1-2m														
									- lights ON														
10	SPast#5	0200	DE	MOR			50° 39.541	126° 35.745	- deployed light trap #5 in 23' of water														
		1642	RE						- multicolored lights														
									- lights ON														
10	KN Z	0506	BE	ROS		0524	50° 39.307	126° 10.988	120	175	203-212	10	DS + HG	✓	Rosette								
		0511	BD				50° 39.305	126° 10.986															
		0524	EN				50° 39.308	126° 10.981															

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