DAILY LOG BOOK

MISSION NUMBER 2005-14

DATE: From: June 6 to: June 12

VESSEL: Vector

PROJECT: SoG - JdF

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

Captain: Brian P. First Officer: Roger
Second Officer: Paul Third Officer: _____

Mission Participants / Agencies: Angelica / Masson

Scientific Personnel: Party Chief: Dianne Masson

Name	Watch	Cabin	Name	Watch	Cabin
Linette	4-8				
Melanie					
Val	12-4				
Sheila	8-12				
Hazel	8-12				
Jeff	12-4				
Nick	4-8				

Second leg of Mission: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer: PAC 02392
Data acquisition program: Seasave
CTD deck unit make: Seabird model: 11 serial number: 0424

Primary CTD

Make: Seabird model: 911 serial number: 0585
Primary temperature serial number: 2968
Primary conductivity serial number: 2173
Secondary temperature serial number: 2710
Secondary conductivity serial number: 2424
Transmissometer: _____ Model: Seatech s/n: 333DR
Fluorometer: Model SEAPOINT Cable gain: 10x 0-15 s/n: 2229 **P, S** or **NO** pump?
Oxygen sensor: SBE 43 Model: _____ s/n: 0766 **P, S** or **NO** pump?
PAR sensor: _____ Model: Licor s/n: 4656
Other sensors: Altimeter s/n: 1037 **P, S** or **NO** pump?
Other sensors: SPAR - Surface irradiance s/n: 16504 **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

Make: _____ model: _____ serial number: _____
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): 1.44 m

Rosette Setup:
Number of bottles: 24
Manufacturer: Ocean Test (Ocean Test Equip., General Oceanics, IOS)
Volume of bottles (litres): _____

Winches:
1. Make: Swann model: 329 serial #: 1233 used for: all casts
2. Make: _____ model: _____ serial #: _____ used for: _____
3. Make: _____ model: _____ serial #: _____ used for: _____
4. Make: _____ model: _____ serial #: _____ used for: _____
5. Make: _____ model: _____ serial #: _____ used for: _____
6. Make: _____ model: _____ serial #: _____ used for: _____
7. Make: _____ model: _____ serial #: _____ used for: _____

Comments: Was a short at the start of set-up, but Doug at did a resepline of one of the pigtails + it worked well the entire trip.

Salinometer: make: _____ model: _____ serial number: _____
Comments: _____

Thermosalinograph System:
Program: _____ Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____
Comments: _____

ADCP Setup:
Computer time zone: _____
Sampling interval (sec): _____
Bin Length: (2^x): _____
Pulse Length: _____
Buffer (bytes): _____
Gyro Offset: _____
User Exits: Name: _____ Exit points: _____
Name: _____ Exit points: _____
Name: _____ Exit points: _____
Work File: _____
Comments: _____

Comments:

DAILY LOG

Ocean Sciences and Productivity Division

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Month June **Year** 2005 **Ship** Vector **Cruise ID** 2005-14

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
6	59	2125	BE	ROS	UN	1	48° 37.801	123° 14.635	227		1-14	14	VF/NICK everyone	NO	
		2128	BO		↑		48 37.967	123° 14.682		220					
		0135	EN				48 38.065	123° 14.695							
6	59	2151	—	RAD	N/A	2	48 38.410	123 14.698	N/A	N/A	N/A	N/A	MQ		
6	60	2231	BE	CTD	N/A	3	48° 33.875	123° 12.718	287						
		2255	BO		↓		48° 33.968	123° 12.755		280	N/A	N/A	VF EMCK ALL		
		2239	EN				48° 34.120	123° 12.822							
6	61	2325	BE	ROS CTD	N/A	4	48 29.147	123 9.256	275		N/A	N/A	??	yes	Par values seem high
		2329	BO		↓		48 29.201	123 9.260		275					
		2333	EN				48 29.320	123 9.496							* calibration
7	103	0632	BE	CTD	NA	5	48°32.97	124°43.05	121				ST	yes ✓	constant was
		0634	BO		↓		48°32.95	124°43.06		120	#				wrong. Fixed —
		0636	EN				48°32.94	124°43.05							see what happens.
7	102	0702	BE	ROS	UN	6	48 29.887	124 44.052	258		15-29	15	VF/NICK Diane	✓	S.T.
		0708	BO		↑		48 29.834	124 44.117		251					
		0720	EN				48 29.809	124 44.302							
7	101	0804	BE	CTD	NA	7	48 25.452	124 45.014	240			8	Diane/VF	✓	* ammonia
		0814	BO	& ROS.	↓		48 25.576	124 44.964		225					samples #
		0820	EN				48 25.714	124 44.970							+ to replace Stn 102 - did not sample NH4

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
UN = up / no stop
DN = down / no stop

Time Code
BE = beginning time of cast
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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DAILY LOG

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7	74	0905	BE	CTD	N/A	8	48 25.122	124 35.682	189		N/A	–	Diane/ Valerie		
		0910	BO				48 25.157	124 35.736		185					
		0913	EN		UN		48 25193	124 35777							
7	75	0945	BE	ROS	UP	9	48 28.236	124 32.875	221		30-43	14	Diane Valerie	✓	
		0950	BO				4828.219	124 32.891		220					
		0958	EN				48 28.178	124 32.915							
7	76	1034	BE	CTD	N/A	10	48 31.447	124 30.054	86		N/A	–	Diane Valerie		
		1036	BO				48 31.435	124 30.071		81					
		10:39	EN				48 31.42	124 30.078							
7	71	1251	BE	CTD		11	48 22267	123 59 497	106		–	–	"	✓	
		12 54	BO				48 22 267	123 59 597		100					
		12 56	EN				48 22 271	123 59 662							
7	72	13 29	BE	ROS	UN	12	48 18 659	124 4 128	185		43-55	13	"	✓	
		13 33	BO				48 18 737	124 4 216		180					
		1340	EN				48 18 799	124 4 379							
7	73	1431	BE	CTD		13	48 15 06	124 6874	158				"	✓	
		1434	BO				48 15 155	124 7045		150					
		14 38	EN				48 15 210	124 7 186							

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Month JUNE **Year** 2005 **Ship** Vector **Cruise ID** 2005-014

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
7	68	1652	BE	CTD		14	48°12.18	123°43.38	137				ST	✓	
		1655	BO				48°12.17	123°43.67		130			↓		
		1657	EN				48°12.17	123°43.82							
7	69	1733	BE	ROS	UN	15	48°15.78	123°43.57	177		56-67	12			-NO NH4 samples
		1738	BO				48°15.91	123°44.10		170				✓	taken
		1746	EN				48°15.96	123°44.71							
7	69	1756		BAD		16	48 16.05	123 45.41							
7	70	1832	BE	CTD	N/A	17	48°19.194	123°43.330	154				↓	✓	
		1835	BO				48°19.207	123°43.360		147					
		1837	EN				48°19.213	123°43.375							
7	104	2030	BE	CTD	N/A	18	48°20.005	123°17.988	81		N/A	N/A	VF/NICK	✓	
		2032	BO				48°19.987	123°17.984		80	↓				
		2034	EN		UN		48°19.486	123°17.984							
7	ADCP	2115	BE	ROS	UN	19	48°13.968	123°17.986	119		68-77	10	VF/NICK	✓	
		2117	BO		↑		48°13.972	123°17.938							
		2121	EN		↑		48°13.962	123°17.868							
7	105	2159	BE	CTD	N/A	20	48 10.931	123 18.816	81		N/A	N/A	VF/NICK Diana	✓	
		2200	BO				48 10.906	123 18.760	8						
		2202	EN				48 10.891	123 18.744							

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Month JUNE **Year** 2005 **Ship** VECTOR **Cruise ID** 2005-14

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
7	64	2259	BE	CTD	N/A	21	48 12.883	123 5.701	105		N/A	N/A	VF/NICK	✓	
		2301	BO				48 12.892	123 5.677		98					
		2303	EN				48 12.900	123 5.683							
7	65	2336	BE	CTD	N/A	22	48 15.924	123 9.872	125		N/A	N/A	VF	✓	
		2338	BO				48 15.947	123 15.854		121					
		2340	EN				48 15.954	123 9.857							
8	66	00:15	BE	ROS	UN	23	48 19.358	123 14.158	104		78-87	10	VF	✓	
		00:17	BO				48 19.379	123 14.131		95					
		00:21	EN				48 19.435	123 14.004							
8	67	1:15	BE	CTD		24	48 22.758	123 18.092	106			-	VF	✓	
		1:17	BO				48 22.741	123 18.055		100		11			
		1:18	EN				48 22.722	123 15.034							
8	62	2:17	BE	ROS	UN	25	48 22.864	123 2.634	148		88-98	11	VF	✓	
		2:20	BO				48 22.860	123 2.651		140					
		2:24	EN				48 22.862	123 2.668							
	63	0334	BE	CTD		26	48°14.45	122°58.57	166		—		ST	✓	
		0337	BO				48°14.44	122°58.64		155					
		0339	EN				48°14.43	122°58.67							

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8	54	0532	BE	CTD		27	48 26.69	122 44.33	87				ST	✓	
		0533	BO				48 26.68	122 44.33		75	—				
		0534	EN				48 26.68	122 44.33							
8	53	0634	BE	CTD		28	48 33.27	122 44.97	60				ST	✓	
		0635	BO				48 33.27	122 44.96		55	—		↓		
		0636	EN				48 33.27	122 44.95							
8	52	0719	BE	CTD		29	48 38.972	122 43.244	87		—		VF/NICK	✓	
		0721	BO				48 38.956	122 43.189		82					
		0723	EN				48 38.933	122 43.159							
8	51	0854	BE	CTD		30	48 46.747	122 51.606	163		—		VF/NICK	✓	System had to be
		0859	BO				48 46.747	122 51.624		160					rebooted -
		0901	EN				48 46.741	122 51.637							
8	56	1003	BE	ROS		31	48 46.400	123 1.709	209		99-112	14	VF/NICK	✓	
		1007	BO				48 46.454	123 1.758							
		1015	EN				48 46.568	123 1.723							
8	57	1103	BE	CTD		32	48 44029	123 7 985	152		—	—	TP	✓	
		1106	BO				48 44053	123 7 993							
		1109	EN				48 44106	123 8 008							

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8	58	1140	BE	CTD		33	48 42 948	123 14 322	330				M	✓	
		1146	BO				48 42 937	123 14 290		320					
		1152	EN				48 42 952	123 14 228							
8	47	1336	BE	CTD		34	48 49 339	123 6 134	184				P	✓	rebooted computer
		1339	BO				48 49358	123 6 104		180					
		1342	EN				48 49356	123 6 079							
8	48	1406	BE	CTD		35	48 51 721	123 3 181	226				M	✓	
		1410	BO				48 51 688	123 3 172		220					
		1414	EN				48 51 664	123 3 173							
8	49	1443	BE	CTD		36	48 55046	122 59 618	130				TH	✓	
		1446	BO				48 55072	122 59 660		120					
		1448	EN				48 56074	122 59682							
8	50	1515	BE	CTD		37	48°57.78	122°56.01	27				ST	✓	
		1516	BO				48°57.79	122°56.00		22					
		1517	EN				48°57.80	122°56.00							
	44	1605	BE	CTD		38	48°56.80	123°06.06	118				ST		
		1607	BO				48°56.77	123°06.06		115					
		1609	EN				48°56.76	123°06.02							

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08	45	1633	BE	CTD		39	48'53.80	123'08.39	126				ST		
		1635	BO				48'53.75	123'08.33		120			↓		
		1637	EN				48'53.73	123'08.31							
8	46	1658	BE	ROS	UN	40	48'51.35	123'10.78	178						
		1701	BO				48'51.33	123'10.78		175	113-124	12			
		1706	EN				48'51.31	123'10.72							
8	46	1018		RAD	TOSS	41	48 51.29	123 10.78							
8	43	1912	BE	CTD	N/A	42	49 0.190	123 30.120	191		N/A	N/A	VF/NICK	✓	
		1915	BO				49 0.197	123 30.126		186					
		1917	EN				49 0.210	123 30.128							
8	42	1942	BE	ROS		43	49 1.817	123 26.302	318		125-140	16	VF/NICK DANE	✓	
		1947	BO				49 1.764	123 26.406		312					
		1954	EN				49 1.740	123 26.606	—	—	—	—	VF/MQ NICK	10 min ✓	
8	42	1956	—	RAD	TOSS	44									note data for
	41	2033	BE	CTD		45	49 3.34	123 22.27	236		—	—	VF/D.M N.Ck	✓	CTD may be called 44 not 45 in data file
		2036	BO				49 3.371	123 22.290		234					
		2039	EN				49 3.407	123 22.320							
8	41	2045	—	RAD	TOSS	46	49 3.498	123 22.461	—	—	—	—	MQ/DM	—	confusion @ Rad as event.

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8	37	2149	BE	CTD	N/A	47	49°13.609	123°20.707	211		N/A	N/A	VF/NICK	✓	-Lots of jelly fish tentacles - ouch!
		2153	BO				49°13.634	123°20.695		209					
		2156	EN				49°13.656	123°20.689							
8	38	2226	BE	CTD	MA	48	49°12.043	123°26.398	307		N/A	N/A	VF/NB	✓	
		2230	BO				49°12.079	123°26.407		304					
		2234	EN				49°12.110	123°26.410							
8	39	2315	BE	ROS	UP	49	49 9 888	123 33 127	378		141-156	16	TD	✓	
		2320	BO		↑		49 9 964	123 33 181		370					
		2327	EN				49 10 085	123 33 240							
	39		—	RAD	TOSS	50					—	—	MQ		
9	40	00:03	BE	CTD		51	49 8620	123 36 778	139				TD	✓	—
		00:06	BO				49 8686	123 36 821		132					Pupcast was called ✗ (51a)
		00:09	EN				49 8 724	123 36 842							The pump was turned off at bottom and started again ✗
9	26	1:14	BE	CTD		52	49 14 358	123 50947	252				ID	✓	
		1:17	BO				49 14384	123 51 030		245					
		1:20	EN				49 14 413	123 51 085							i.e. 2 files for one cast
9	27	153	BE	ROS		53	49 19 052	123 48 013	349		157-172	16	TD	✓	
		157	BO				49 19 078	123 48 078		340					
		205	EN				49 19 121	123 48 152							

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→ 2nd file renamed 519 (51a) (ST.)

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
9	28	241	BE	CTD		54	49 24 155	123 45 378	134				JT	✓	
		242	BO				49 24 180	123 45 416		130					
		244	EN				49 24 209	123 45 461							
9	2	0413	BE	ROS		55	49°24.19	124°09.19	281		173-187	15	ST	✓	
		0416	BO				49°24.21	124°09.20		276			↓		
		0423	EN				49°24.26	124°09.25							
9	1	0509	BE	CTD	UN	56	49°20.29	124°12.13	246					✓	
		0513	BO				49°20.29	124°12.18		240					
		0515	EN				49°20.30	124°12.21							
9	4	0602	BE	CTD		57	49°24.56	124°22.14	344					✓	
		0607	BO				49°24.62	124°22.19		340					
		0610	EN				49°24.62	124°22.19							
9	3	0629	BE	ROS	UN	58	49°26.61	124°20.13	325		188-203	17		✓	
		0633	BO				49°26.68	124°20.15		320					
		0641	EN				49°26.72	124°20.25							
9	5	0725	BE	CTD		59	49°27.379	124°30.870	317				VF/JM	✓	
		0730	BO				49°27.403	124°30.925		310					
		0737	EN				49°27.433	124°30.989							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month June **Year** 2005 **Ship** VECTOR **Cruise ID** 2005-14

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
9	6	0803	BE	ROS	UP	60	49.30.641	124 27.734	192		204-216	13	VF/NICK	✓	
		0808	BO		↑		49 30.678	124 27.757		185					
		0814	EN				49 30.738	124 27.804							
9	7	0855	BE	CTD		61	49 34.440	124 24.224	355		—	—	VF/NICK	✓	
		0902	BO				49 34.487	124 24.308							
		0908	EN				49 34.520	124 24.378							
9	8	0952	BE	CTD		62	49 39.323	124 33.035	338		—	—	VF/NICK	✓	
		0958	BO				49 39.402	124 33.210		335					
		1004	EN				49 39.456	124 33.298							
9	9	1043	BE	ROS		63	49 35.392	124 38.128	168		217-228	12	VF/NICK	✓	
		1047	BO				49 35.366	124 38.089		161					
		1054	EN				49 35.370	124 38.040							
9	10	1148	BE	CTD		64	49 40 658	124 47 324	91	—	—	—	?	✓	
		1151	BO				49 40 615	124 47 324		85					
		1153	EN				49 40 588	124 47 318							-computer crash?
9	11	1217	BE	CTD		65	49 42371	124 43 345	301	—	—	—	??	✓	not sure why.
		1222	BO				49 42 394	124 43 354		290					
		1228	EN				49 42 443	124 43 416							

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9	12	1246	BE	ROS	UN	66	49 43 573	124 40 735	356		229-244	16	[illegible]	✓	
		1251	BO				49 43 589	124 40 696		351					
		1301	EN				4943 668	124 40 753							
9	15	1427	BE	CTD		67	49 51 685	125 1 646	129		—	—			
		1430	BO				49 51 706	125 1 658							
		1432	EN				49 51 729	125 1 667							
9	14	1448	BE	ROS	UN	68	49 53 000	124 59 544	314		245-260	11	[illegible]	✓	
		1453	BO				49°52.99	124°59.53		307					
		1501	EN				49°53.01	124°59.53							
9	14	1514		RAP		69	4953.060	124 59.56	—	—	—		NO		
	13	1542	BE	CTD		70	49°55.34	124°55.22	241		—	—	ST		put in wrong file # for cast (put 69 not 70) will fix. ✓ S.T. OK.
		1546	BO				49°55.37	124°55.28		235			↓		
		1550	EN				49°55.40	124°55.33							
	18	1619	BE	CTD		71	49°59.24	124°58.99	146		—	—		✓	
		1622	BO				49°59.26	124°59.03		141					- lots of jelly fish goop all over
		1624	EN				49°59.27	124°59.05							
	17	1647	BE	CTD		72	49°58.80	125°04.32	262		—	—			
		1651	BO				49°58.82	125°04.35		260					
		1655	EN				49°58.84	125°04.37							

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still not convinced of that... Brrr...

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09	16	1719	BE	ROS	UN	73	49 57.73	125 08.84	154				ST		
		1722	BO				49 57.76	125 08.89		150	261-271	11	↓	✓	
		1727	EN				49 57.80	125 08.95							
09	16	1733		RAD		74	49 57.84	125.09.00	—	—	—	—	MQ		
	21	1809	BE	CTD	N/A	75	50 02.07	125 13.58	88						
		1812	BO				50 02.13	125 13.60		85	—	—		✓	
		1814	EN				50 02.202	125 13.645							
9	19	2006	BE	CTD	N/A	76	50 1.159	124 52.945	271		—	—	VF/MCK	✓	
		2010	BO				50 1.190	124 52.922		269					
		2014	EN				50 1.228	124 52.916							
9	19	2024	—	RAD	TOSS	77	50 1.330	124 52.899	—	—	—	—	MQ/MdC	—	
9	20	2223	BE	CTD	N/A	78	49 47.262	124 32.286	301		—	—	VF/WM	✓	
		2228	BO				49 47.260	124 32.239		292 →	Wrinkman noticed acoustic slope, big slack →				- Rosette hit bottom / VALERIE DID IT!
		2232	EN				49 47.250	124 32.279							
	20		—	RAD	TOSS	79	49 40.20	124 16.23	—	—	—	—	MQ/WCK	—	
10	22	00:13	BE		N/A	80	49 40 186	124 16 361	357					✓	
		00 17	BO				49 40 188	124 16 339		350					
		00 22	EN				49 40 199	124 16 298							
	22	0024	—	RAD	TOSS	81	49 40 199	124 16 298	—	—	—	—	MQ	—	

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10	24	0152	BE	CTD	N/A	82	49 30.296	124°6.008	427		—	N/A	VF/NICK	✓	
		0158	BO				4930.378	124 6.014		420					
		0203	EN				49 30.457	124°6.020							
10	25	0227	BE	CTD	N/A	83	4927.750	124°7.465	292		—	N/A	VF/NICK	✓	
		0231	BO				4927.729	124 9.484		285					
		0235	EN				4927.703	124 7.529							
10	39B	0524	BE	ROS	UP	84	49°09.79	123°32.96	377		272-287	16	VF/MP	✓	
		0529	BO		↑		49°09.79	123°32.99		370					
		0536	EN				49°09.82	123°33.903							

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