

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2012-05

DATE:

From: June 13/2012 to: June /2012

VESSEL:

CCGS VECTOR

PROJECT(S):

STRAIT OF GEORGIA / JUAN DE FUCA STRAIT
WATER PROPERTIES SURVEY

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

WaterProperties.ca

This page is for any notes or observations

Depart Pat Bay 15h05 13 June 2012 - slight ripples, overcast

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month JUNE				Year 2012			Ship VECTOR				Cruise ID 2012 - 05				
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	14	19 11	BE	ROS	US	13	49 53.02	124 59 59	315		38 - 52	15	RE	✓	bottle 17 did not fire
		19 17	BO				53.03	59.60		309					
		19 34	EN				53.12	59.67							
14	15	20 28	BE	CTD		14	49 51.62	125 1.62	128				RE	✓	
		20 31	BO				51.63	1.61		123					
		20 33	EN				51.64	1.60							
14	16	21 29	BE	ROS	US	15	49 57.70	125 8.80	155		53 - 63	11	RE	✓	
		21 31	BO				57.70	8.78							
		21 42	EN				57.69	8.72							
14	19	22:56	BE	CTD		16	50' 1.22	124' 52.92	282						
		23:01	BO				50' 1.214	124' 52.892		275			GB	✓	
		23:06	EN				50' 1.214	124' 52.89							
14	18	23:39	BE	CTD		17	49' 59.23	124' 58.87	143					✓	
		23:43	BO				49' 59.26	124' 58.88		136			T.C		
		23:46	EN				49' 59.26	124' 58.86							

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

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month <u>June</u>				Year <u>2012</u>				Ship <u>Vector</u>				Cruise ID <u>2012-05</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								
15	17	00:12	BE	CTD		18	49'58.826	125' 4.297	264				GB	✓		
		00:18	BO				49'58.82	125' 4.31		260						
		00:23	EN				49'58.816	125' 4.322								
15	10	02:36	BE	CTD		19	49 40.72	124 47.21	99				RE	✓		
		02:40	BO				40.73	47.26		98						
		02:41	EN				40.73	47.25								
15	11	03:04	BE	CTD		20	49 42.40	124 43.48	301				PC	✓	Continued increase	
		03:11	BO				42.42	43.44		296					in vertical in	
		03:16	EN				42.44	43.42							fluorescence values	
15	11	03:29	BE	NET		21	49 42.50	124 43.40	304				GL		50-0 m	
		03:31	BO				42.50	43.40		50						
		03:33	EN				42.50	43.40								
15	11	03:38	BE	NET		22	49 42.53	124 43.36	307				KS		300-0 m	
		03:49	BO				42.58	43.31		300						
		03:56	EN				42.61	43.31								

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Month JUNE				Year 2012			Ship VECTOR				Cruise ID 2012-05					
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	12	0410	BE	ROS	US	23	49 43.59	124 40.81	356		64-79	16	RC	✓		2 killer whales
		0418	BO				43.62	40.84		351						
		0435	EN				43.64	40.86								
15	8	0533	BE	CTD		24	49 39.35	124 33.04	340				R	✓		
		0536	BO				39.38	33.05		334						
		0542	EN				39.40	33.07								
15	9	0626	BE	ROS	US	25	49 35.53	124 38.31	170		80-91	12	R	✓		no oxygens
		0629	BO				35.51	38.31		165						
		0641	EN				35.45	38.29								
15	7	0758	BE	ROS		26	49 34.41	124 24.25	352				CR	✓		
		0804	BO				34.41	24.23		345						
		0810	EN				34.40	24.22								
15	6	0847	BE	ROS		27	49 30.61	124 27.79	194		92-104	13	SR	✓		
		0851	BO				30.62	27.76		189						
		0904	EN				30.60	27.67								

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Ocean Sciences Division, Institute of Ocean Sciences

Month <u>June</u>				Year <u>2012</u>			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							
15	CPF2	0940	BE	ROS		28	49° 27.98	124° 30.00	326				SR	✓	
		0946	BO				27.99	30.01		320					
		0952	EN				28.00	30.01							
15	CPF2		BE	NET		29	49° 27.97	124° 29.97	328	50			SR		
15	CPF2		BO				49° 27.98	124° 29.97	328				SR		
			EN				49° 27.98	124° 29.97							
15	CPF2		BE	NET		30	49° 27.97	124° 29.97	328	320					
			BO				49° 27.98	124° 29.97							
			EN				49° 27.98	124° 29.98							
15	5	1059	BE	ROS		31	49 27.39	124° 30.81	316				SR	✓	
		1104	BO				27.39	30.82		311					
		1109	EN				27.39	30.80							
15	4	1158	BE	ROS		32	49 24.53	124 22.06	347				SR	✓	
		1205	BO				24.53	22.06		342					
		1210	EN				24.53	22.06							
15	3	1232	BE	ROS		33	49 26.61	124 20.23	324		105-120		SR	✓	
		1238	BO				26.60	20.21		319					
		1255	EN				26.62	20.19							

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <i>June</i>				Year <i>2012</i>			Ship <i>Vector</i>				Cruise ID <i>2012-05</i>					
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								
<i>15</i>	<i>1</i>	<i>1353</i>	<i>BE</i>			<i>34</i>	<i>49 20.31</i>	<i>124 12.09</i>					<i>SR</i>	☒		
		<i>1357</i>	<i>BO</i>				<i>20.30</i>	<i>12.09</i>								
		<i>1401</i>	<i>EN</i>				<i>20.29</i>	<i>12.09</i>								
<i>15</i>	<i>CTP1</i>	<i>1440</i>	<i>BE</i>	<i>SCORE NET</i>		<i>35</i>	<i>49° 22.02</i>	<i>124 05.14</i>	<i>244</i>	<i>50</i>			<i>MT</i>			
		<i>1442</i>	<i>BO</i>				<i>22.07</i>	<i>05.13</i>								
		<i>1445</i>	<i>EN</i>				<i>22.02</i>	<i>05.13</i>								
<i>15</i>	<i>CTP1</i>	<i>1451</i>	<i>BE</i>	<i>SCORE NET</i>		<i>36</i>	<i>49° 22.02</i>	<i>124° 05.12</i>	<i>244</i>	<i>238</i>			<i>MT</i>			
		<i>1459</i>	<i>BO</i>				<i>22.06</i>	<i>05.11</i>								
		<i>1407</i>	<i>EN</i>				<i>22.00</i>	<i>05.12</i>								
<i>15</i>	<i>2</i>	<i>1537</i>	<i>BE</i>	<i>ROS</i>		<i>37</i>	<i>49 24.11</i>	<i>124 9.33</i>	<i>279</i>		<i>121-135</i>		<i>SR</i>	☒		
		<i>1542</i>	<i>BO</i>				<i>24.10</i>	<i>9.31</i>								
		<i>1559</i>	<i>EN</i>				<i>24.10</i>	<i>9.30</i>								
<i>15</i>	<i>25</i>	<i>1634</i>	<i>BE</i>	<i>ROS</i>		<i>38</i>	<i>49 27.69</i>	<i>124 7.50</i>	<i>291</i>				<i>SR</i>	☒		
		<i>1640</i>	<i>BO</i>				<i>27.70</i>	<i>7.50</i>		<i>286</i>						
		<i>1644</i>	<i>EN</i>				<i>27.70</i>	<i>7.50</i>								
<i>15</i>	<i>24</i>	<i>1711</i>	<i>BE</i>	<i>ROS</i>		<i>39</i>	<i>49 30.32</i>	<i>124 6.02</i>	<i>425</i>				<i>SR</i>	☒		
		<i>1719</i>	<i>BO</i>				<i>30.31</i>	<i>6.01</i>		<i>419</i>						
		<i>1726</i>	<i>EN</i>				<i>30.31</i>	<i>6.01</i>								

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month		JUNE		Year		2012		Ship		VECTOR		Cruise ID					2012-05		Page _____ of _____	
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	28	1915	BE	CTD		40	49 24.09	123 45.31	136				RC	✓						
		1918	BO				24.10	45.31		129										
		1921	EN				24.11	45.31												
15	27	2006	BE	ROS	US	41	49 19.15	123 48.10	350		136-151		RC	✓	? #11 snip					
		2012	BO				19.17	48.12		342					out of water?					
		2030	EN				19.21	48.12												
15	26	2119	BE	CTD		42	49 14.32	123 50.83	254				RC	✓	snip all bottles					
		2126	BO				14.33	50.87		249					at surface - all good					
		2130	EN				14.33	50.84												
15	GEO1	2207	BE	NET		43	49 15.03	123 44.92	403				GC/RS		good shape to net					
		2208	BO				15.03	44.92		50					50-0 m					
		2210	EN				15.04	44.92							jelly fish in net					
15	GEO1	2216	BE	NET		44	49 15.03	123 44.90	403						399-0 m					
		2230	BO				15.08	44.92		395					some tris to net					
		2237	EN				15.10	44.93												
Cast Type: _____ USW = Sea Water Loop Bottle Firing Method: _____ Time Code: _____																				

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Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

bottles 7 & 8 snipped @ 125 m
question whether bottle 11 snipped at depth (75 m) or at surface when being brought on board. — NO WATER
IN BOT 11

- all bottles snipped well, all vents holding

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month JUNE				Year 2012			Ship VECTOR				Cruise ID 2012-05				
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	40	2341	BE	CTD		45	49 8.63	123 36.80	145				R	✓	
		2344	BO				8.70	36.80		138					
		2347	EN				8.74	36.80							
16	39	0015	BE	ROS	US	46	49 9.79	123 32.97	376		152-168	17	R	✓	bottle 11 did not fire
		0021	BO				9.86	32.98		371					
		0040	EN				9.87	32.99							
16	38	0118	BE	CTD		47	49 11.99	123 26.42	309				R	✓	
		0123	BO				11.99	26.40		304					
		0128	EN				11.99	26.37							
16	37	0159	BE	CTD		48	49 13.59	123 20.68	213				R	✓	
		0203	BO				13.58	20.68		208					
		0206	EN				13.58	20.69							
16	108	0314	BE	CTD		49	49 4.38	123 19.14	99				R	✓	
		0316	BO				4.36	19.23		94					
		0317	EN				4.37	19.30							

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DRF = Drifter
____ = _____

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Notes: _____

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

Month JUNE				Year 2012			Ship VECTOR				Cruise ID 2012-05					
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	41	0338	BE	CTD		50	49 3.27	123 22.36	247				R	✓		
		0343	BO				3.30	22.44		243						
		0346	EN				3.31	22.54								
15	42	0408	BE	ROS	US	51	49 1.77	123 26.22	322		169-185	17	R	✓		
		0415	BO				1.77	26.32		317						
			EN													
15	42	0507	BE	NET		52	49 1.79	123 26.27	320				GC/RS		50 → 0	
		0509	BO				1.80	26.28		50					descend 0.5 m/s	
		0510	EN				1.81	26.31							recover 1.0 m/s	
15	42	0516	BE	NET		53	49 1.80	123 26.43	320				GC/RS		312 → 0	
		0527	BO				1.79	26.55		312					312 m of wire out	
		0532	EN				1.78	26.60								
15	43	0602	BE	CTD		54	49 0.17	123 30.13	190				R	✓	12.7°C air temp	
		0605	BO				0.17	30.15		185						
		0608	EN				0.17	30.17								

DAILY SCIENCE LOG

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Page _____ of _____

Month JUNE				Year 2012			Ship VECTOR					Cruise ID 2012-05					
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	106	0728	BE	ROS		55	49	1.00	123	13.26	77				SR		
		0730	BO					1.00		13.27		72					
		0731	EN					1.00		13.29							
16	107	0812	BE	ROS		56	48	58.41	123	18.01	181						
		0815	BO					58.42		18.01		177			SR	✓	
		0818	EN					58.42		18.01							
16	46	0924	BE	ROS	US	57	48	51.38	123	10.74	178		186-197		SR	✓	
		0927	BO					51.37		10.70		172					
		0939	EN					51.31		10.51							
16	45	1026	BE			58	48	53.86	123	8.39	129				SR	✓	
		1029	BO					53.83		8.39		124					
		1031	EN					53.83		8.40							
16	44	1109	BE			59	48	56.77	123	6.02	119				SR	✓	
		1111	BO					56.76		6.02							
		1113	EN					56.75		6.01							
16	49	1150	BE				48	54.99	122	59.55	130				SR	✓	
		1153	BO					54.98		59.55		126					
		1155	EN					54.98		59.54							

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Ocean Sciences Division, Institute of Ocean Sciences

Month <u>June</u>				Year <u>2012</u>				Ship <u>Vector</u>				Cruise ID <u>2012-05</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								
16	48	1233	BE	ROS		61	48 51.69	123 3.12	223				SR	✓		
		1237	BO				51.65	3.06								
		1240	EN				51.63	3.04								
16	47	1309	BE	ROS		62	48 49.31	123 6.18	185				SR	✓		
		1313	BO				49.31	6.17		180						
		1315	EN				49.30	6.17								
16	101	2345	BE	ROS		63	48 25.33	124 45.12	235				R	✓	depth deeper than on station file	
		2348	BO				25.36	45.02		225					stop 10 m off bottom	
		2351	EN				25.41	44.92								
17	102	0043	BE	ROS	US	64	48 30.03	124 44.12	254		198-211	14	R	✓	chains still on	
		0048	BO				30.09	44.32		245						
		0103	EN				30.19	44.72								
17	103	0200	BE	ROS		65	48 33.03	124 43.12	120				R		chains on	
		0202	BO				33.06	43.16		110						
		0204	EN				33.08	43.19								

This page is for any notes or observations

weight on - bottom - 10

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Month				Year			Ship			Cruise ID							
JUNE				2012			VECTOR			2012-05							
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	76	0314	BE	ROS		66	48	31.37	124	30.06	90		PC	✓	weights on		
		0316	BO					31.39		30.07		82					
		0317	EN					31.40		30.07							
17	75	0353	BE	ROS	US	67	48	28.29	124	32.88	220		212-225	14	PC	✓	weights on
		0357	BO					28.34		32.94		210					
		0410	EN					28.48		33.06							
17	74	0455	BE	ROS		68	48	25.11	124	35.65	188			PC	✓	weights on	
		0458	BO					25.11		35.75		176					
		0501	EN					25.10		35.78							
17	73	0724	BE	ROS		69	48	14.97	124	6.82	162			SR	✓	Weight off	
		0732	BO					14.94		6.84		157					
		0735	EN					14.92		6.86							
17	72	0814	BE			70	48	18.56	124	4.10	187		226-238	SR	✓		
		0818	BO					18.52		4.14							
		0826	EN					18.50		4.16							

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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							
17	71	0918	BE	ROS		71	48 22.21	123 59.44	108				SR	✓	
		0920	BO				22.21	59.45		105					
		0922	EN				22.21	59.45							
17	70	1036	BE	ROS		72	48 19.19	123 43.21	150				SR	✓	
		1039	BO				19.19	43.23		143					
		1042	EN				19.19	43.24							
17	69	1144	BE	ROS	US	73	48 15.61	123 43.42	177		239-250		SR	✓	pH probe cap left on
		1147	BO				15.65	43.52		172					
			EN				15.77	43.96							
17	68	1232	BE	ROS		74	48 12.26	123 43.42	138				SR		
		1234	BO				12.30	43.60		133					
		1237	EN				12.34	43.76							
17	105	1504	BE	ROS		75	48 11.02	123 19.14	84				SR	✓	
		1506	BO				11.02	19.25		80					
		1508	EN				11.02	19.32							
17	ADCP	1541	BE	ROS		76	48 14.04	123 18.14					SR	✓	
		1544	BO				14.03	18.25							
		1551	EN				13.97	18.68							

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:

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Produced by the Water Properties Group, IOS

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Version: 06 March 2008

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <i>June</i>				Year <i>2012</i>			Ship <i>Vector</i>				Cruise ID <i>2012-05</i>				
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	104	1640	BE			77	48 19.98	123 18.16	86				SR	✓	
		1642	BO				19.95	18.24		80					
		1644	EN				19.92	18.31							
17	67	1713	BE	ROS		78	48 22.80	123 17.99	105				SR	✓	
17	104	1715	BO				22.78	17.98							
		1717	EN				22.75	17.92							
17	66	1748	BE	ROS		79	48 19.07	123 14.29	105				SR	✓	
		1752	BO				19.98	14.45							
		1757	EN				19.98	14.45							
17	65	1836	BE	ROS	US	80	48 15.85	123 9.75	123				SR	✓	
		1839	BO				15.85	9.76		119					
		1850	EN				15.85	9.73							
17	64	1929	BE	ROS		81	48 12.78	123 5.97	110				R	✓	weights on
		1930	BO				12.78	5.97		101					
		1932	EN				12.78	5.97							
17	63	2014	BE	ROS		82	48 14.57	122 58.47	151				R	✓	weights on
		2016	BO				14.56	58.40		142					
		2018	EN				14.57	58.35							

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month JUNE				Year 2012				Ship VECTOR				Cruise ID 2012-05			
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	62	2135	BE	ROS	US	83	48 22.81	123 7.57	146		270-280	11	R	✓	weights on
		2138	BO				22.80	2.47		137					
		2148	EN				22.80	2.36							
17	54	2308	BE	ROS		84	48 26.64	122 44.43	78				R	✓	weights on
		2309	BO				26.68	44.42		70					strong tide
		2310	EN				26.71	44.40							
17	53	2349	BE	ROS		85	48 33.28	122 44.83	57				R	✓	weights off
		2351	BO				33.34	44.81		55					
		2351	EN				33.38	44.81							
18	52	0026	BE	ROS		86	48 38.93	122 43.24	85				R	✓	
		0028	BO				38.94	43.21		80					
		0029	EN				38.97	43.17							
18	51	0133	BE	ROS		87	48 46.66	122 51.59	160				R	✓	
		0136	BO				46.67	51.59		157					
		0139	EN				46.68	51.58							<u>DONE</u>

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