

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2008-19

7 days
-2
5

From: 14 APRIL 2008 to: 20 APRIL 2008

CCGS VECTOR

PROJECT(S):

SOG - JdF WATER PROPERTIES
SURVEY

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

WaterProperties.ca

Captain: ANDY QUAYE
 Second Officer: MATT TAYLOR
 Fishing Master: _____
 First Officer: NICOLA MANSEY
 Third Officer: _____

Mission Participants / Agencies:

[illegible][illegible]

Data logging computer:

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary 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?** _____

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?**

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

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Month <u>April</u>				Year <u>2008-19</u>			Ship <u>Vector</u>		Cruise ID <u>2008-19</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	SI	00:11	BE	ROS	LPS	1	48 39 377	123 30 012	176	170	1-14	14	all		Bottle 7 didn't fire
		00:37	BO				48 39 377	123 30 014							
		00:31	EN				48 39 38	123 30 037							
15	60	232	BE	CTD	—	2	48 33 862	123 12 684	286		—	—		✓	
		2:41	BO				48 33 721	123 12 408		274					
		2:48	EN				48 33 649	123 12 192							
15	61		BE	CTD	—	3	48 29 304	123 9.028	196		—	—		✓	-too rough aborted this station - heading N → Georgia St.
			BO				48 —	123 —		—					
			EN				48 —	123 —							
15	3	1402	BE	ROS	LPS	4	49 26 .614	124 20.185	324		15-30	16	180T	✓	
		1409	BO				49 26 615	124 20 171		315					
		1428	EN				49 26 604	124 20 219							
15	4	1501	BE	CTD	—	5	49 24.499	124 22 112	344		—			✓	
		1510	BO				49 24.510	124 22.097		337.		—			
		1516	EN				49 24.510	124 22.101							
15	5	1604	BE	CTD	—	6	49 27.420	124 30.824	316		—	—		✓	
		1612	BO				49 27.428	124 30.827		311					
		1617	EN				49 27.431	124 30.817							

Cast Type:

BOT = Bottle cast, no CTD
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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

Produced by the Water Properties Group, IO's

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Month <u>APRIL</u>				Year <u>2008</u>			Ship <u>VECTOR</u>				Cruise ID <u>2008-19</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	6	1653	BE	ROS	UPS	f	49 30.580	124 27.847	191		31-43	13	Valerie Sharpe	✓	Oxy - yellow box
		1700	BO				49 30.589	124 27.858		187					
		1721	EN				49 30.593	124 27.878							
15	7	1800	BE	CTD	-	8	49 34.400	124 24.182	352		-	-		✓	
		1809	BO				49 34.388	124 24.193		345					
		1815	EN				49 34.398	124 24.180							
15	9	19:20	BE	ROS	UPS	9	49 35.46	124 38.31	168		44-55	12	Hugh E Poiré	✓	OXY - GRGT Box
		19:24	BO				49 35.461	124 38.306		160					
		19:39	EN				49 35.443	124 38.287							
15	8	20:20	BE	CTD		10	49 39.301	124 32.98	336					✓	
		20:27	BO				49 39.243	124 32.97		330					
		20:33	EN				49 39.268	124 32.990							
15	12	21:23	BE	ROS	UPS	11	49 43.594	124 40.192	356		56-71	16		✓	OXY - RD BOX
		21:30	BO				49 43.597	124 40.795		345					SNOWMIDSEA SHOW!
		21:50	EN				49 43.469	124 40.771							
15	11	22:19	BE	CTD		12	49 42.35	124 43.44	302		-	-			
		22:26	BO				49 42.27	124 43.45		294					
		22:32	EN				49 42.25	124 43.45							

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

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Notes:

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Month APRIL			Year 2008				Ship VECTOR				Cruise ID 2008-19				
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	10	2258	BE	CTD	-	13	49 40 684	124 47 317	85		-	-	10/DT	✓	
		23:02	BO				49 40 693	124 47 328		89					
		23:04	EN				49 40 696	124 47 333							
16	21	214	BE	CTD	-	14	50 2 032	126 13 624	17		-	-	10/DT	✓	
		2:17	BO				50 2 065	125 13 619		75					
		2:19	EN				50 2 128	125 13 625							
16	23	0340	BE	ROS	UPS	15	50 15.067	125 22.969	23f		72-85	14	Share Peter Valérie	✓	
		0348	BO				50 14.987	125 22.907		230					WRONG
		0403	EN				50 15.026	125 22.702							
16	16	0603	BE	ROS	UPS	16	49 57.685	125 8.786	155		84-94	11	Share Valérie	✓	Grey-grey box
		0608	BO				49 57.688	125 8.759		151					
		0619	EN				49 57.676	125 8.711							
16	17	0654	BE	CTD	-	17	49 58.793	125 4.265	264		-	-	Share Valérie	✓	
		07:00	BO				49 58.799	125 4.255		258					
		07:05	EN				49 58.802	125 4.258							
16	15	08:07	BE	CTD	-	18	49 51.604	125 1.588	127					✓	
		08:10	BO				49 51.601	125 1.589		120					
		08:13	EN				49 51.599	125 1.600							

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see note actually 16th not 17th

Month <u>APRIL</u>				Year <u>2008</u>			Ship <u>VECTOR</u>				Cruise ID <u>2008-19</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*	14	0843	BE	ROS	UPS	19	49 52.992	124 59.61	316.		95-109	15	RL, HM	☒	MAY Have started with wrong Date.
		0848	BO				49 52.99	124 59.59		310.					
		0909	EN				49 52.993	124 59.55							Computer says 17th.
17*	13	0954	BE	CTD	-	20	49 55.30	124 55.16	240			-	RL, HM		
		0957	BO				49 55.30	124 55.17		234					
		1003	EN				49 55.30	124 55.19							
17	18	1047	BE	CTD	-	21	49 59.20	124 58.91	146			-			
		1050	BO				49 59.20	124 58.91		140					
		1054	EN				49 59.20	124 58.90							
17*	19	1135	BE	CTD		22	50 1.198	124 52.916	273			-	PLOT	☒	POT time is 435 April 16
		1143	BO				50 1.199	124 52.926		272					
		1149	EN				50 1.201	124 52.921							
16	20	1356	BE	CTD	-	23	49 47.212	124 32.258	303				TH/OT	☒	day now correct use.
		1404	BO				49 47.218	124 32.250		301					
		1410	EN				49 47.210	124 32.232							
16	22	1535	BE	CTD	-	24	49.40.166	124 16.252	352			-	Shore Valer	☒	
		1544	BO				49.40.151	124 16.235		347					
		1553	EN				49.40.112	124.16.205							

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This page is for any notes or observations

* - BOT #1 DID NOT TRIGGER

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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	24	17:16	BE	CTD	-	25	49.30.252	124.5.963	428		-	-	Spore Valve	✓	
		17:26	BO				49 30.234	124 5.952		423					
		17:36	EN				49 30.181	124 5.932							
16	25	1806	BE	CTD	-	26	49 27.733	124 7 499	285		-	-		✓	
		1813	BO				49 27.430	124 7.502		280					
		1820	EN				49 27.426	124 7.493							
16	2	1854	BE	ROS	UPS	27	49 24.127	124 9.289	278		110-124	15			Grey-green box
		1901	BO				49 24 119	124 9.283		273					
		1919	EN				49 24 098	124 9.254							
16	1	20:13	BE	CTD		28	49 20 317	124 12.161	247						
		20:19	BO				49 20 33	124 12.233		242					Alt 3.2 meters
		20:25	EN				49 20 33	124 12.27							
	28	22:24	BE	CTD		29	49 24 102	123 45 298	135						
		22:28	BO				49 24 115	123 45 281		130					Alt 6.6 meters
		22:31	EN				49 24 122	123 45 280							
16	27	23 11	BE	ROS	UPS	30	49 19 126	123 47 911	348		125-148	16	10/10T	✓	Grey-yellow box
		23 19	BO				49 19 138	123 47 850		342					
		23 36	EN				49 19 230	123 47 822							

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							Latitude	Longitude							
17	26	00:19	BE	CTD	—	31	48 14 320	123 50 825	251		—	—	10/01	✓	
		00:26	BO				48 14 327	123 50 825		251					
		00:31	EN				48 14 315	123 50 906							
17	37	2:33	BE	CTD	—	32	49 13 574	123 20 725	215				10/01	✓	
		2:38	BO				49 13 531	123 20 707		210	—	—			
		2:43	EN				49 13 526	123 20 731							
17	38	03:18	BE	CTD	—	33	49 11.989	123 26.388	308						
		03:26	BO				49 11.987	123 26.436		303	—	—	Shore Value	✓	
		03:33	EN				49 11.969	123 26.474							
17	39	04:11	BE	ROS	UPS	34	49 9.775	123 32.899	376		141-157	17		✓	Photo Samples Nutrient Duplicates
		04:20	BO				49 9.774	123 32.876		370					
		04:41	EN				49 9.781	123 32.855							
17	40	05:18	BE	CTD	—	35	49 8.604	123 36.463	150		—	—		✓	
		05:22	BO				49 8.610	123 36.732		145					
		05:25	EN				49 8.616	123 36.413							
17	61	13:06	BE	CTD	—	36	48 29 213	123 9 228	272				10/01	✓	
		13:15	BO				48 29 218	123 9 228		282					
		13:21	EN				48 29 219	123 9 227							

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Month <u>APRIL</u>				Year <u>2008</u>			Ship <u>VECTOR</u>				Cruise ID <u>2008-19</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	62	1413	BE	ROS	UPS	37	48 23.743	123 2 717	120		158-168	11	John	✓	green oxy data
		14 18	BO				48 23.701	123 2.705		126					Botle #7
		14 30	EN				48 23.617	123 2 746							didn't fire
17	63	1538	BE	CTD	-	38	48 14.632	122 58.590	152		—	—	John Valerie	✓	
		1543	BO				48 14.659	122 58.670		145			Peter		
		1547	EN				48 14.686	122 58.804							
17	54	1739	BE	CTD	-	39	48 26.570	122 44.302	77		—	—		✓	
		1742	BO				48 26.554	122 44.322		76					
		1744	EN				48 26.533	122 44.336							
17	53	1836	BE	CTD	-	40	48 33.166	122 44.959	58		—	—		✓	
		1838	BO				48 33.193	122 44.957		56					
		1840	EN				48 33.199	122 44.954							
17	52	1939	BE	CTD	-	41	48 38.921	122 43.272	83		—	—	Hugh Ben	✓	
		1941	BO				48 38.938	122 43 264		80					
		1943	EN				48 38.95	122 43 249							
17	51	2054	BE	CTD	-	42	48 46.72	122 51 643	163		—	—			
		2058	BO				48 46.74	122 51 73		160					12.7.4m.
		21:02	EN				48 46.77	122 51 78							

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 — =

Bottle Firing Method:

US = Up / Stop
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Notes:

Time Code:

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

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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>18</i>	<i>45</i>	<i>237</i>	<i>BE</i>	<i>CTD</i>	<i>—</i>	<i>49</i>	<i>48 53.783</i>	<i>123 8.424</i>	<i>128</i>			<i>—</i>	<i>MIOT</i>	✓	
		<i>241</i>	<i>BO</i>				<i>48 53.716</i>	<i>123 8.333</i>		<i>127</i>					
		<i>244</i>	<i>EN</i>				<i>48 53.663</i>	<i>123 8.234</i>							
<i>18</i>	<i>46</i>	<i>0308</i>	<i>BE</i>	<i>ROS</i>	<i>UPS</i>	<i>50</i>	<i>48 51.364</i>	<i>123 10.796</i>	<i>179</i>		<i>183-194</i>	<i>12</i>	<i>Valerie Shore</i>	✓	<i>marked as 47 on HPLC, others changed</i>
		<i>0312</i>	<i>BO</i>				<i>48 51.361</i>	<i>123 10.751</i>		<i>178</i>					
		<i>0325</i>	<i>EN</i>				<i>48 51.418</i>	<i>123 10.571</i>							
<i>18</i>	<i>43</i>	<i>0537</i>	<i>BE</i>	<i>CTD</i>	<i>—</i>	<i>51</i>	<i>49 0.248</i>	<i>123 29.982</i>	<i>218</i>		<i>—</i>	<i>—</i>	<i>"</i>	✓	<i>Rough-ro charison Rosette. Altitude 6:20 due to charison. ∴ cautious on depth.</i>
		<i>0542</i>	<i>BO</i>				<i>49 0.234</i>	<i>123 29.941</i>		<i>210</i>					
		<i>0547</i>	<i>EN</i>				<i>49 0.216</i>	<i>123 29.981</i>							
<i>18</i>	<i>42</i>	<i>0618</i>	<i>BE</i>	<i>ROS</i>	<i>UPS</i>	<i>52</i>	<i>49 1.801</i>	<i>123 26.074</i>	<i>317</i>		<i>195-210</i>	<i>16</i>	<i>"</i>	✓	<i>NMEA has day as 19th not the 18th</i>
		<i>0627</i>	<i>BO</i>				<i>49 1.765</i>	<i>123 26.046</i>		<i>310</i>					<i>Bot. 15 did not fire</i>
		<i>0645</i>	<i>EN</i>				<i>49 1.729</i>	<i>123 26.226</i>							
<i>18</i>	<i>41</i>	<i>0747</i>	<i>BE</i>	<i>CTD</i>	<i>—</i>	<i>53</i>	<i>49 3.25</i>	<i>123 22.43</i>	<i>247</i>		<i>—</i>	<i>—</i>	<i>"</i>	✓	<i>ALT. picks up wieght only, "NOT BOTTOM"</i>
		<i>0756</i>	<i>BO</i>				<i>49 3.28</i>	<i>123 22.45</i>		<i>230</i>					<i>ALT. 6.52 meter s contin</i>
		<i>0802</i>	<i>EN</i>				<i>49 3.335</i>	<i>123 22.492</i>							
<i>18</i>	<i>57</i>	<i>1126</i>	<i>BE</i>	<i>CTD</i>		<i>54</i>	<i>48 44 005</i>	<i>123 8 072</i>	<i>156</i>						<i>PDT April 10</i>
		<i>1132</i>	<i>BO</i>				<i>48 44 033</i>	<i>123 8 089</i>		<i>154</i>			<i>MIOT</i>	✓	<i>4:25</i>
		<i>1136</i>	<i>EN</i>				<i>48 44 035</i>	<i>123 8 107</i>							
															<i>NMEA as 19th</i>

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							Latitude	Longitude							
18	58	1212	BE	CTD	—	55	48 43 009	123 14 290	338				M/D	✓	
		1222	BO				48 43 037	123 14 308		339					
		1228	EN				48 43 046	123 14 302							
18	59	1316	BE	ROS	UPS	56	48 37 747	123 14 532	234		211-224	14	20/OT	✓	
		1323	BO				48 37 736	123 14 563		230					bottle # 7
		1340	EN				48 37 673	123 14 564							didn't fire
	64		BE	CTD	—	—	—	—	107		—	—	Marie Valerie		- cancelled - too rough. Run to Albert Head.
			BO												
			EN												
18	104	2349	BE	CTD		57	48 19 945	123 17 926	86				M/D	✓	
		2352	BO				48 19 924	123 17 898		86					
		2355	EN				48 19 907	123 17 890							
19	ADCP	0040	BE	ROS		58	48 13 982	123 17 965	121		225-234	10	20/OT	✓	
		0043	BO				48 13 960	123 17 940		110					
		0053	EN				48 13 925	123 17 860							
19	105	123	BE	CTD		59	48 10 973	123 19 031	83				M/D	✓	
		126	BO				48 10 991	123 19 066		13					
		127	EN				48 11 000	123 19 098							

Cast Type:

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USW = Sea Water Loop

MOR = Mooring
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Bottle Firing Method:

US = Up / Stop
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 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast DE = Deployment Time
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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

Month <i>April</i>				Year <i>2008-19</i>			Ship <i>Vektor</i>				Cruise ID <i>2008-19</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							
19	64	239	BE	CTD	-	60	48 12.834	123 57.96	107		-	-	<i>14/DT</i>	✓	<i>marked as 97 in file</i>
		241	BO				48 12.836	123 57.90		98					
		243	EN				48 12.836	123 58.06							
19	65	0316	BE	ROS	UPS	61	48 15.913	123 9.853	125		235-244	10	<i>Shant: Valerie Peter</i>	✓	<i>FEID did not fire surface samples</i>
		0319	BO				48 15.924	123 9.919		120					
		0330	EN				48 15.947	123 10.133							
19	66	0410	BE	CTD	-	62	48 19.246	123 14.160	102		-	-		✓	
		0413	BO				48 19.182	123 14.260		98					
		0416	EN				48 19.159	123 14.287							
19	67	0450	BE	CTD	-	63	48 22.800	123 18.121	106		-	-		✓	
		0453	BO				48 22.818	123 18.100		100					
		0455	EN				48 22.824	123 18.095							
19	70	0713	BE	CTD	-	64	48 19.204	123 43.148	151		-	-			<i>Noted as Station 64, should have been 70</i>
		0717	BO				48 19.205	123 43.126		141					
		0720	EN				48 19.204	123 43.112							
19	69	0757	BE	ROS	UPS	65	48 15.648	123 43.211	179		245-256	12		-	<i>TRIGGER CAROSEL CHANGED OUT - BOTTLE #1, #5 did not fire</i>
		0802	BO				48 15.71	123 43.20		169					
		0814	EN				48 15.83	123 43.20							

This page is for any notes or observations

→ taken with a bucket
over the side. Bot 10 samples
- 10 Bot f samples.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 12 of

Month				Year			Ship			Cruise ID						
APRIL				2008-19			VECTOR			2008-19						
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								
19	68	0857	BE	CTD	—	66	48 12 23	123 42 96	141		—	—	H.M. P.h.			
		0901	BO				48 12 25	123 42 93		131						
		0905	EN				48 12 27	123 42 92			—	—				
19	73	1103	BE	CTD	—	67	48 14 988	124 6 789	160				M/O	✓		
		1108	BO				48 14 960	124 6 852		150					displays says	
		1112	EN				48 14 939	124 6 898							day to 20	
19	71	1536	BE	CTD	—	68	48 22.212	123 59.504	108		—	—	Shane Valerie	✓	SAR call @ 10:45	
		1539	BO				48 22.216	123 59.551		106						
		1542	EN				48 22.232	123 59.600								
19	72	1626	BE	ROS	UPS	69	48 18.683	124 4.021	185		257-269	13		✓	* Large swell - shear is on. #2 - 13 did not fire - surface samples from bucket - no phyto -	
		1630	BO				48 18.760	124 4.181		180						
		1645	EN				48 19.003	124 4.633								
19	76	19:10	BE	CTD		70	48 31 42	124 30.01	86		—	—				
		19:12	BO				48 31 39	124 29.99		76						
		19:14	EN				48 31 39	124 29.98			STOP @ 5m					
19	75	19:47	BE	ROS	UPS	71	48 28 47	124 32 59	215							
		19:54	BO				48 28 45	124 32 593		210					CAANGGO OUT TRIGGER	
		20:07	EN				48 28 40	124 32 46							CARROSEL BEFORE STA	
															#76	

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This is "swell"!!

