

DAILY LOG

CRUISE
NUMBER

2002-12

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

April 9-13

2002

VESSEL

Vector

PROJECT

SoG - J de F

Captain: Glen **First Officer:** _____

Second Officer: _____

Third Officer: _____

Mission Participants / Agencies: IOS

Scientific Personnel:

Party Chief: Diane Masson

[illegible][illegible]This image shows a full page of blank primary-ruled paper. It features two identical sections of handwriting practice lines. Each section contains three horizontal lines: a solid top line, a dashed midline, and a solid bottom line. The lines are evenly spaced and run horizontally across the page, leaving ample space for writing practice. There are no margins, text, or other markings on the paper.

Data logging computer: FS62
 Data acquisition program: Seasave version 5.25a
 CTD deck unit make: S/E model: 11 plus serial number: 0508

Primary CTD

Make: Seabird model: 911 plus serial number: 585

Primary temperature sensor serial number: 2968 Calibration date: _____

Primary conductivity sensor serial number: 2173 Calibration date: _____

F3 Secondary temperature sensor serial number: 1729 Calibration date: _____

F4 Secondary conductivity sensor serial number: 2038 Calibration date: _____

V2 Other sensors: Transmissometer s/n: 498AR

V4 Other sensors: Oxygen sensor (primary pump) s/n: 0047

V0 Other sensors: Fluorometer (primary pump) s/n: 2356 + 10X

V6 Other sensors: PAR s/n: 4601

Pressure 77511

Make: _____ model: _____ serial number: _____

Primary temperature sensor serial number: _____ Calibration date: _____

Primary conductivity sensor serial number: _____ Calibration date: _____

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Comments:

conductivity cell → fluorometer → oxygen sensor → primary pump

Winches:

- | | | | | | |
|-----------------|-----|-----------|------|------|---------------|
| 1. Swann model: | 329 | serial #: | 1307 | use: | CSD |
| 2. Swann model: | 329 | serial #: | 1483 | use: | CSD Backhoe |
| 3. Swann model: | | serial #: | | use: | 1/2 wire rope |
| 4. Swann model: | 410 | serial #: | 1536 | use: | hydro |
| 5. Swann model: | | serial #: | | use: | |
| 6. Swann model: | | serial #: | | use: | |
| 7. Swann model: | | serial #: | | use: | |
| Comments: | | | | | |

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

Comments: _____

Surface Temperature / Salinity Data Logging System:

Program: _____
Sampling interval (seconds): _____
Sensor serial number: _____
Comments: _____

ADCP Setup:

Program version: _____

Time zone: _____

Sampling interval (seconds): _____

Blank beyond transmit: _____

% pings good threshold: _____

Comments: _____

Number of depth bins: _____

Bin length (2X): _____

Pulse length: _____

Pings per ensemble: _____

Comments:

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <i>2002</i>					Month <i>April</i>			Ship <i>Vector</i>				Cruise I.D. <i>2002-12</i>		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
9	SAMB	ROS	14:03	BE	1	48 39.48	123 29.60		115		1-6	6		
			14:05	BO		48 39.49	123 29.59			103				
			14:11	EN		48 39.49	123 29.58							
9	59	ROS	1608	BE	2	48° 37.71	123° 14.60				7-20	14		
			1615	BO		48 37.38	123° 14.57		231					
			1628	EN		48° 37.19	123° 14.62			215				
9	60	ROS	16:35	BE	3	48° 33.86	123° 12.76							
			17:01	BO		48° 33.83	123° 12.72		274	285				
			1704	EN		48° 33.85	123° 12.74							
9	61	ROS	1738		4	48° 29.16	123° 09.28		287					
			1744			48° 29.05	123° 09.26			278				
			1748			48° 29.00	123° 09.19							
10	103	ROS	01:04	BE	5	48 33 11	124 43.03		120	110				
			01:07	BO		48 33 16	124 43.04							
			01:09	EN		48 33 19	124 43.06							
10	102	ROS	01:42	BE	6	48 33 17	124 44 17		253	241	21-35	15		
			01:48	BO		48 30 33	124 44 26							
			01:58	EN		48 30 58	124 44 38							

Cast type:

BOT = otter cast
CTD = CTD

MOR = mooring

ROS = Rosette
NET = net haul

DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast

BO = bottom time of cast

EN = end of cast time

DE = deployment time

MR = messenger release time

RE = recover mooring time

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Year 2002					Month April			Ship Vector			Cruise I.D. 2002-12			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	101	ROS	02:52	BE	7	48° 30.58	124° 45.53		178	207				
			02:57	BO		48° 25.43	124° 45.72							
			03:01	EN		48° 25.41	124° 45.87		187					
10	74	ROS	03:55	BE	8	48° 25.14	124° 35.63			183			ST	
			0400	BO		48° 25.19	124° 35.75							
			0404	EN		48° 25.27	124° 35.87							
	75	ROS	0437	BE	9	48° 28.18	124° 32.80		224		36-48	13	ST	
			0443	BO		48° 28.21	124° 32.80			221				(ops - forgot to trip surface bottle - S.T.)
			0459	EN		48° 28.50	124° 32.86							
	76	ROS	0528	BE	10	48° 31.37	124° 29.84							
			0530	BO		48° 31.37	124° 29.82		87					
			0533	EN		48° 31.37	124° 29.81							
	71	ROS	0750	BE	11	48° 22.18	123° 59.35		109					
			0753	BO		2218	59.31							
			0755	EN		48° 22.18	123° 59.28							
	72	ROS	0835	BE	12	48° 18.61	124° 3.96		191		49-61	13		
			0839	BO		48° 18.60	124° 3.96			184				
			0853	EN		48° 18.58	124° 4.03							

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	101	ROS	02:52	BE	7	48:30.58	124:45.53		178	207				
			02:57	BO		48:25.43	124:45.72							
			03:01	EN		48:25.41	124:45.87		187					
10	74	ROS	03:55	BE	8	48:25.14	124:35.63			183			ST	
			0400	BO		48:25.19	124:35.75							
			0404	EN		48:25.27	124:35.87							
	75	ROS	0437	BE	9	48:28.18	124:32.80		224		36-48	13	ST	
			0443	BO		48:28.21	124:32.80			221				
			0459	EN		48:28.30	124:32.86							(oops - forgot to trip surface bottle - S.T.)
	76	ROS	0528	BE	10	48:31.37	124:29.84							
			0530	BO		48:31.37	124:29.82		87					
			0533	EN		48:31.37	124:29.81							
	71	ROS	0750	BE	11	48:22.18	123:59.35		109					
			0753	BO		22:18	59:31							
			0755	EN		48:22.18	123:59.28							
	72	ROS	0835	BE	12	48:18.61	124:3.96		191		49-61	13		
			0839	BO		48:18.60	124:3.96			184				
			0853	EN		48:18.58	124:4.03							

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	73	ROS	09:40	BE	13	48	15.00	124	6.70		164					
			09:44	BO		48	14.99	124	6.69			159				
			09:47	EN		48	14.99	124	6.69							
10	68	"	11:35	BE	14	48	12.19	123	43.02		138		60-73	12	LA	dead calm
			11:39	BO		48	12.19	123	43.01			134				
			11:41	EN		48	12.19	123	43.01		177					
10	69	"	12:13	BE	15	48	15.58	123	43.19		177	177	60-73	12		
			12:17	BO		48	15.60	123	43.21							
			12:26	EN		48	15.70	123	43.37							
10	70	ROS	13:04	BE	16	48	19.20	123	43.21		150					
			13:07	BO		48	19.20	123	43.21			147				
			13:10	EN		48	19.20	123	43.21							
10	105	ROS	15:47	BE	17	48	10.99	123	19.00		85					
			15:49	BO		48	10.99	123	19.02			78				
			15:50	EN		48	11.00	123	19.03							
	ADCP	ROS	16:21	BE	18	48	14.00	123	17.93							
			16:24	BO		48	14.01	123	17.95		119	114	74-83			
			16:34	EN		48	14.07	123	18.02							

Cast type: BOT = otter cast ROS = Rosette LISW = sea water loop Time Code BE = bottom echosounder

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	104	ROS	1718	BE	19	48°19.95	123°16.06		69					
			1719	BO		48°19.92	123°16.11			68				
			1721	EN		48°19.91	123°16.15							
10	67	ROS	1747	BE	20	48°22.81	123°17.88		107					
			1749	BO		48°22.83	123°17.83			104				
			1751	EN		48°22.84	123°17.81							
10	66	ROS	1828	BE	21	48°19.32	123°14.08		101					
			1830	BO		48°19.32	123°14.07			97				
			1831	EN		48°19.32	123°14.07							
10	62		1926	BE	22	48°22.80	123°2.61		150		84-94	16	BM	
			1929	BO		48°22.78	123°2.64			141				
			1942	EN		48°22.76	123°2.88							
10	65		20:40	BE	23	48°16.11	123°09.62		122		95-104		BM	
			20:43	BO		48°16.13	123°9.64			119				
			20:52	EN		48°16.15	123°9.76							
10	64		21:30	BE	24	48°12.78	123°5.69		108				BM	
			21:33	BO		48°12.78	123°5.66			100				
			21:35	EN		48°12.79	123°5.65							

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10	63		22:20	BE	25	48 14.57	122 58.90		164					
			22:24	BO		48 14.61	122 58.89		159					
			22:26	EN		48 14.65	122 58.89							
11	54		00:25	BE	26	48 26.65	122 44.41		79				JH	
			00:27	BO		48 26.68	122 44.39		77					
			00:29	EN		48 26.71	122 44.39							
11	53		01:13	BE	27	48 33.30	122 44.94		59					
			01:15	BO		48 33.31	122 44.94		57					
			01:17	EN		48 33.32	122 44.95							
11	52		02:00	BE	28	48 38.85	122 43.16		80					
			02:01	BO		48 38.84	122 43.15		77					
			02:03	EN		48 38.83	122 43.15							
11	51	ROS	03:17	BE	29	48 46.76	122 51.59		164				S.T.	
			03:20	BO		48 46.76	122 51.56							
			03:23	EN		48 46.76	122 51.52							
11	56	ROS	04:09	BE	30	48 46.34	123 01.82		210				S.T.	
			04:16	BO		48 46.36	123 02.14			201	105-118	14		
			04:32	EN		48 46.31	123 02.53							
Cast type: BOT = otter cast ROS = Rosette LISW = sea water loop Time Code: BE = bottom event BO = bottom only EN = end of net														

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11	57	ROS	0508	BE	31	48° 43.90	123° 08.40						S.T.	
			0512	BO		48° 43.92	123° 08.49		171	166				
			0516	EN		48° 43.94	123° 08.49							
	58	ROS	0545	BE	32	48° 42.99	123° 14.61		337					
			0552	BO		48° 42.98	123° 14.85			321			S.T.	
			0557	EN		48° 42.97	123° 15.04							
11.	50	ROS	0832	BE	33	48° 57.73	122° 56.11		28				BM	
			0833	BO						25				
			0834	EN		48° 57.72	122° 56.12							
11.	49	ROS	0902	BE	34	48° 55.02	122° 59.72		133				BM	5 m above bottom
			0905	BO		48° 55.02	122° 59.73			125				
			0907	EN		48° 55.03	122° 59.73							
11.	48	ROS	1009	BE	35	48° 51.71	123° 3.21		232				BM	
			1014	BO		48° 51.69	123° 3.22			223				
			1018	EN		48° 51.70	123° 3.24							
	47.		10:51	BE	36	48° 49.32	123° 6.19		188					
11			10:55	BO		48° 49.32	123° 6.19			183				
			10:58	EN		48° 49.32	123° 6.18							

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
<i>11</i>	<i>46</i>	<i>ROS</i>	<i>11:30</i>	<i>BE</i>	<i>37</i>	<i>48 51 41</i>	<i>123 10 81</i>		<i>179</i>		<i>119-131</i>	<i>13</i>	<i>TB</i>	
			<i>11:33</i>	<i>BO</i>		<i>48 51 41</i>	<i>123 10 80</i>			<i>174</i>				
			<i>11:40</i>	<i>EN</i>		<i>48 51 40</i>	<i>123 10 80</i>							
<i>11</i>	<i>45</i>	<i>ROS</i>	<i>12:04</i>	<i>BE</i>	<i>38</i>	<i>48 53 89</i>	<i>123 8 36</i>		<i>128</i>					
			<i>12:06</i>	<i>BO</i>		<i>48 53 89</i>	<i>123 8 34</i>			<i>127</i>				
			<i>12:08</i>	<i>EN</i>		<i>48 53 89</i>	<i>123 8 33</i>							
<i>11</i>	<i>44</i>	<i>ROS</i>	<i>12:36</i>	<i>BE</i>	<i>39</i>	<i>48 56 80</i>	<i>123 6 01</i>		<i>124</i>					
			<i>12:39</i>	<i>BO</i>		<i>48 56 80</i>	<i>123 6 01</i>			<i>118</i>				
			<i>12:41</i>	<i>EN</i>		<i>48 56 81</i>	<i>123 6 02</i>							
<i>11</i>	<i>41</i>	<i>ROS</i>	<i>13:55</i>	<i>BE</i>	<i>40</i>	<i>49 3 21</i>	<i>123 22 23</i>		<i>247</i>					
			<i>14:02</i>	<i>BO</i>		<i>49 3 25</i>	<i>123 22 25</i>			<i>236</i>				
			<i>14:08</i>	<i>EN</i>		<i>49 3 29</i>	<i>123 22 27</i>							
<i>11</i>	<i>42</i>	<i>ROS</i>	<i>14:36</i>	<i>BE</i>	<i>41</i>	<i>49 1 73</i>	<i>123 26 35</i>		<i>326</i>		<i>132-147</i>	<i>16</i>		
			<i>14:42</i>	<i>BO</i>		<i>49 1 78</i>	<i>123 26 47</i>			<i>320</i>				
			<i>14:52</i>	<i>EN</i>		<i>49 1 73</i>	<i>123 26 70</i>							
<i>11</i>	<i>43</i>	<i>ROS</i>	<i>0005</i>	<i>BE</i>	<i>42</i>	<i>49 00.19</i>	<i>123 30.15</i>							
				<i>BO</i>		<i>49 00.16</i>	<i>123 30.19</i>		<i>198</i>				<i>ST</i>	
				<i>EN</i>		<i>49 00.13</i>	<i>123 30.21</i>			<i>190</i>				

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Cleaned blob of grease off wire and Rosette. Bottle #1 had large blob of grease inside bottom of bottle.
grease also removed from A-frame block.

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
	40	ROS	1622	BE	43	49° 08.60	123° 36.81		151				S.T.	
			1625	BO		49° 08.60	123° 36.81			142				
			1626	EN		49° 08.60	123° 36.81							
	39	ROS	1650	BE	44	49° 09.74	123° 32.93						ST	hit bottom
			1657	BO		49° 09.69	123° 33.03		~380	378	148-164	17		
			17:16	EN		49° 9.56	123° 33.32							
	38	ROS	1759	BE	45	49° 11.82	123° 26.65		311				S.T.	
			1805	BO		49° 11.93	123° 26.68			302				
			1810	EN		49° 11.99	123° 26.77							
	37	ROS	1842	BE	46	49° 13.59	123° 20.71						ST	cleaned trans
			1846	BO		49° 13.59	123° 20.70		213					
			1849	EN		49° 13.60	123° 20.71			206				
	28	ROS	20:41	BE	47	49° 24.10	123° 45.29		133				Am	
			20:45	BO		49° 24.03	123° 45.18			131				
			20:47	EN		49° 24.01	123° 45.15							
	27	ROS	21:27	BE	48	49° 19.12	123° 47.93		348		165-180	16	Bm	hit bottom
			21:36	BO		49° 19.31	123° 47.97			350				
			21:53	EN		49° 19.69	123° 48.34							

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2002					Month	April		Ship	VECTOR			Cruise I.D.			2002-12	
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments		
11	26	ROS	22:41	BE	49	49° 14.33	123° 50.85		253						choppy sea rain	
			22:48	BO		49° 14.40	123° 50.74			258						
			22:52	EN		49 14 48	123 50 77									
12	24	ROS	00:42	BE	50	49 30 34	124 57 4		425						hit the bottom.	
			00:50	BO		49 30 36	124 5 59			418						
			00:56	EN		49 30 34	124 5 51									
12	25	ROS	01:22	BE	51	49 27 71	124 7 36		310							
			01:29	BO		49 27 76	124 7 23			310						
			01:34	EN		49 27 84	124 7 23									
12	2	ROS	02:07	BE	52	49 24 05	124 9 20		278		181-195	15				
			02:12	BO		49 24 03	124 9 10			276						
			02:22	EN		49 24 01	124 8 93									
12	1	ROS	02:52	BE	53	49 20 56	124 12 07		257			ST.				
			02:58	BO		49° 20.48	124° 12.09			247						
			03:02	EN		49° 20.44	124° 12.03									
	3	ROS	03:56	BE		49° 26.67	124° 20.12									
			04:02	BO	54	49° 26.72	124° 19.96		310			ST.		I thought we were at St. 4 - we fixed the log book + sample labels		
			04:07	EN		49° 26.73	124° 19.80			308						

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but computer will be wrong.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2002					Month APRIL			Ship VECTOR				Cruise I.D. 2002-12		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
12	#4	ROS	0436	BE	55	49°24.50	124°21.93			346	196-211	16		thought this was St. 3
			0444	BO		49°24.51	124°21.68		344				ST.	- did bottle cast here
			0504	EN		49°24.54	124°20.96							instead
12	5	ROS	0557	BE	56	49°27.38	124°30.66							
			0604	BO		49°27.34	124°30.39		318	311			ST.	
			0610	EN		49°27.31	124°30.17							
12	6	ROS	0641	BE	57	49°30.60	124°27.75		190		212-224	13	AC	Forget 2
			0646	BO		49°30.59	124°27.56			187				bottom Net Samps
			0658	EN		49°30.54	124°27.11							
12	7	ROS	0733	BE	58	49°34.39	124°24.20		350				AC	
			0739	BO		49°34.40	124°24.18			340				
			0745	EN		49°34.40	124°24.17							
12	8	ROS	0837	BE	59	49°39.32	124°33.01		348				AC	
			0844	BO		49°39.30	124°33.01			336				
			0850	EN		49°39.30	124°32.99							
12	9	ROS	0930	BE	60	49°35.50	124°38.27		173		225-236		AC	Hit bottom
			0934	BO		49°35.50	124°38.24			165				
			0945	EN		49°35.50	124°38.30							

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Year					Month			Ship			Cruise I.D.				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments	
12	10	ROS	10:36	BE	61	49° 40.71	124° 47.28		95		/				
			10:38	BO		49° 40.71	124° 47.29			95					
			10:39	EN		49° 40.71	124° 47.30								
12	11	ROS	11:06	BE	62	49 42 40	124 43 39		300		/				
			11:12	BO		49 42 39	124 43 40			298					
			11:17	EN		49 42 40	124 43 40								
12	12	ROS	11:36	BE	63	49 43 62	124 40 83		356		237-252	16	LB	STN 112 in haul.	
			11:43	BO		49 43 60	124 40 80			351					
			11:54	EN		49 43 60	124 43 68								
12	13	ROS	13:21	BE	64	49 55 29	124 55 20		239		/				
			13:25	BO		49 55 30	124 55 23			227					
			13:28	EN		49 55 36	124 55 14								
12	14	ROS	14:04	BE	65	49 52 83	124 59 67		309						
			14:09	BO		49 52 91	124 59 63			308	253-268	16			
			14:19	EN		49 53 09	124 59 71								
12	15	ROS	14:42	BE	66	49 51 58	125 1 58		128						
			14:45	BO		49 51 58	125 1 59			124					
			14:47	EN		49 51 58	125 1 61								

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Year <u>2002</u>					Month <u>APRIL</u>			Ship <u>VECTOR</u>			Cruise I.D. <u>2002-12</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
12	16	ROS	1538	BE	67	49° 57.71	125° 08.80		155					
			1542	BO		49° 57.70	125° 08.79			153	269-279	11	S.T.	
			1551	EN		49° 57.71	125° 08.79							
12	17	ROS	1615	BE	68	49° 58.81	125° 04.60							
			1620	BO		49° 58.81	125° 04.51		270					
			1623	EN		49° 58.85	125° 04.42			265				
12	18	ROS	1653	BE	69	49° 59.15	124° 59.02							
			1655	BO		49° 59.11	124° 59.04		146					
12			1657	EN		49° 59.08	124° 59.00							
	19	ROS	1733	BE	70	50° 01.21	124° 52.89							
			1738	BO		50° 01.21	124° 52.89		286					
				EN		50	124							
12	20	ROS	19:43	BE	71	49° 47.03	124° 32.25		321		280-282	3.	AC	Sed. samples only
			19:50	BO		49° 46.90	124° 32.22			314				
			19:56	EN		49° 46.79	124° 32.19							
12	22	ROS	21:17	BE	72	49° 40.30	124° 16.32		358		283-284	2.		
			21:25	BO		49° 40.25	124° 16.11			346				
			21:31	EN		49° 40.21	124° 15.95							

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[illegible]

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