

**** The following 3 pages are VERY IMPORTANT as they document equipment and settings used on board ****

These pages are to be completed by the CTD Technician setting up the equipment, the Watch Leader on board, and the Chief Scientist MUST verify that all relevant sections are completed prior to leaving the vessel. Any mid-cruise changes to be noted by watch leader in the notes.

Data logging computer: Vector Laptop

Data acquisition program: Sensave

CTD deck unit make: SBE model: 11+ serial number: 0619

Primary CTD

Make: SBE model: 9+ serial number: 0443

Primary temperature serial number: 2710

Primary conductivity serial number: 2128

Secondary temperature serial number: 4752

Secondary conductivity serial number: 2399

Transmissometer: Wetlabs Model: C-Star s/n: 1185DR

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?

Fluorometer: Model Seapoint Cable gain: 3X s/n: 3641 P or NO pump?

Oxygen sensor: SBE Model: 43 s/n: 0997 P S or NO pump?

PAR sensor: Biospherical Model: QSP200L45 s/n: 4565 Surface PAR? Y / N

Other sensors: pH s/n: 0692 P, S or NO pump?

Other sensors: Altimeter s/n: 62355 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: SBE model: 25 serial number: 404

Primary temperature serial number: 2449

Primary conductivity serial number: 1764

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model Wetlabs Eco Cable gain: 28 s/n: 4185 P, S or NO pump?

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?

Oxygen sensor: SBE 43 Model: 43 s/n: 1176 P S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____ Surface PAR? Y / N

Other sensors: Pressure SBE 29 s/n: 0464 P, S or NO pump?

Other sensors: pH SBE 18 s/n: 0852 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): _____

This also includes the bottle location above the CTD on non-rosette casts (e.g., W.E. Ricker)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>April</u>			Year <u>2018</u>			Vessel <u>Vector</u>			Cruise ID <u>2018-89</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
1	AMARBP1	14	03:51	BE	ROS		48° 42.917	123° 13.312	285		-		SR	☒	
			03:56	BO			° 42.929	° 13.295		280	-			☐	
			04:03	EN			° 42.918	° 13.276			-			☐	
2	AMABIP2	14	05:58	BE	ROS		48° 44.156	123° 9.313	199		-		SR	☒	
			06:02	BO			° 44.209	° 9.390		195	-			☐	
			06:06	EN			° 44.257	° 9.379			-			☐	
3	AMABP3	14	07:50	BE	ROS		48° 44.494	123° 7.189	128		-		SR	☒	
			07:53	BO			° 44.498	° 7.189		123	-			☐	
			07:55	EN			° 44.500	° 7.196			-			☐	
4	AMARBP4	14	09:45	BE	ROS		48° 45.350	123° 4.609	143		-		SR	☒	
			09:48	BO			° 45.352	° 4.609		139	-			☐	
			09:50	EN			° 45.354	° 4.610			-			☐	
5	AMARBP5	14	11:46	BE	ROS		48° 43.327	123° 10.018	286		-		SR	☒	
			11:52	BO			° 43.339	° 9.992		281	-			☐	
			11:56	EN			° 43.345	° 9.972			-			☐	
6	AMARBP6	14	13:48	BE	ROS		48° 42.694	123° 13.088	228		-		SR	☐	
			13:53	BO			° 42.696	° 13.088		224	-			☐	
			13:57	EN			° 42.707	° 13.087			-			☐	
7	AMARBP	14	14:45	RE	Mooring		48° 43.848	123° 09.178			-			☐	Mooring recovered

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DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
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Month <u>APRIL</u>				Year <u>2018</u>			Vessel <u>Vectra</u>			Cruise ID <u>2018-89</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
8	AMAR BP	14	16:45	DE	Moorline Deployed		48°44.019	123°08.719			-			☐ ☐	64 # 618 Reel # 718
9	AMAR HS	14	19:40	RE	Moorline Recovered		°	°			-			☐ ☐	
10	AMAR HS	14	21:41	DE	Moorline Deployed		48°29.740	123°11.567		231m	-			☐ ☐	64 # 606 Reel # 723
11	AMAR HS2	14	21:55	BE	ROS		48°29.622	123°11.641	225		-		SV	☒ ☐	pH + PAR removed
	AMAR HS2	14	22:01	BO	ROS		48°29.617	123°11.647		218	-			☐ ☐	for this and all
	AMAR HS2	14	22:05	EN	ROS		48°29.618	123°11.719			-			☐ ☐	future casts.
12	AMARSK1	15	02:07	BE	ROS		48°17.262	123°38.672	174		-		SR	☒ ☐	
			02:10	BO			°17.263	°38.718		170	-			☐ ☐	
			02:13	EN			°17.270	°38.766			-			☐ ☐	
13	AMARSK2	15	04:03	BE	ROS		48°16.926	123°34.710	174		-		SR	☒ ☐	
			04:06	BO			°16.934	°34.719		170	-			☐ ☐	
			04:09	EN			°16.946	°34.742			-			☐ ☐	
14	AMARSK3	15	06:00	BE	ROS		48°17.590	123°38.030	168		-		SR	☒ ☐	
			06:03	BO			°17.550	°37.992		164	-			☐ ☐	
			06:13	EN			° .530	°37.997			-			☐ ☐	
15	AMARSK4	15	08:03	BE	ROS		48°17.177	123°35.804	179		-		SR	☒ ☐	
			08:06	BO			°17.177	°35.762		175	-			☐ ☐	
			08:09	EN			°17.172	°35.735			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
16	AMARSK5	15	10:02	BE	ROS		48°17.558	123°41.514	177		-		SR	☒	
			10:05	BO			°17.556	°41.520		172	-			☐	
			10:08	EN			°17.562	°41.508			-			☐	
17	AMARSK6	15	12:04	BE	ROS		48°17.922	123°42.713	170		-		SR	☒	
			12:06	BO			°17.920	°42.720		165	-			☐	
			12:10	EN			°17.930	°42.737			-			☐	
18	AMARSK	15	14:17		MOORING RECOVERED		°	°			-			☐	
19	AMARSK	15	16:05		MOORING DEPLOYED		48°17.375	123°39.290		169	-			☐	AMAR 60759
20	PBS ^{SWIFTS} Haul	15	21:30		MOORING RECOVERED		°	°			-			☐	Recover PBS AI
21	AMARSB	15	21:52		MOORING DEPLOYED		48°30.921	124°56.129	75		-			☐	AMAR 601 BATTON 237
22	SWIFBURE	15	22:05	BE	CTD		48°30.972	124°56.270	75		-		SR	☐	
			22:06	BO			°30.986	°56.367		72	-			☐	
			22:08	EN			°30.994	°56.359			-			☐	
23	PORTREN	16	00:42	BE	CTD		48°30.131	124°31.218	173		-		SR	☐	
			00:45	BO			°30.095	°31.119		165	-			☐	
			00:49	EN			°30.088	°31.059			-			☐	
24	AMAR PR	16	01:27		MOORING DEPLOYED		48°30.276	124°30.951	164		-			☐	AMAR 610 Be 4, 229
			:				°	°			-			☐	
			:				°	°			-			☐	

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Month <u>April</u>				Year <u>2018</u>			Vessel <u>Vector</u>			Cruise ID <u>2018-89</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
25	AMARJR1	16	04:06	BE	CTD		48°24.843	124°12.441			-	-	SR	☐ ☒	
			04:09	BO			°24.842	°12.469			-			☐ ☐	
			04:11	EN			°24.841	°.505			-			☐ ☐	
26	AMARJR2	16	06:04	BE	CTD		48°23.800	124°7.703	115		-		SR	☐ ☒	
			06:06	BO			°23.814	°7.702		110	-			☐ ☐	
			06:08	EN			°23.821	°7.698			-			☐ ☐	
27	AMARJR3	16	08:00	BE	CTD		48°22.716	124°3.524	118		-		SR	☐ ☒	
			08:03	BO			°22.712	°3.529		110	-			☐ ☐	
			08:05	EN			°22.716	°3.526			-			☐ ☐	
28	AMARJR4	16	10:01	BE	CTD		48°23.534	124°7.730	122		-		SR	☐ ☒	
			10:03	BO			°23.538	°7.740		115	-			☐ ☐	
			10:06	EN			°23.536	°7.728			-			☐ ☐	
29	AMARJR5	16	12:01	BE	CTD		48°24.978	124°12.328	115		-		SR	☐ ☒	
			12:03	BO			°24.974	°12.330			-			☐ ☐	
			12:05	EN			°24.972	°12.331			-			☐ ☐	
30	AMARJR6		14:02	BE	CTD		48°24.752	124°10.809	109		-		SR	☐ ☒	
			14:05	BO			°24.759	°10.818		100	-			☐ ☐	
			14:06	EN			°24.763	°10.830			-			☐ ☐	
31	AMARJR	16	15:58		MOR		48°23.804	124°08.060	120		-			☐ ☐	AMAR 6,4 #598 Bottom 328 d-ccl

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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
32	<u>Source</u>	<u>16</u>	<u>20:00</u>		<u>39 Source</u> <u>Transmission</u>		°	°			-			☐ ☐	<u>Source calibration</u>
33	<u>AMARHS2</u>	<u>17</u>	<u>02:05</u>	<u>BE</u>	<u>ROS</u>		<u>48°28.189</u>	<u>123°11.291</u>	<u>88</u>		-		<u>SR</u>	☒ ☐	
			<u>02:07</u>	<u>BO</u>			° <u>28.183</u>	° <u>11.296</u>		<u>83</u>	-			☐ ☐	
			<u>02:08</u>	<u>EN</u>			° <u>28.172</u>	° <u>11.296</u>			-			☐ ☐	
34	<u>AMARHS3</u>	<u>17</u>	<u>04:01</u>	<u>BE</u>	<u>ROS</u>		<u>48°32.246</u>	<u>123°11.825</u>	<u>262</u>		-		<u>SR</u>	☒ ☐	
			<u>04:05</u>	<u>BO</u>			° <u>32.238</u>	° <u>11.824</u>		<u>257</u>	-			☐ ☐	
			<u>04:09</u>	<u>EN</u>			° <u>32.224</u>	° <u>11.852</u>			-			☐ ☐	
35	<u>AMARHS4</u>	<u>17</u>	<u>06:04</u>	<u>BE</u>	<u>ROS</u>		<u>48°32.340</u>	<u>123°12.341</u>	<u>252</u>		-		<u>SR</u>	☒ ☐	
			<u>06:08</u>	<u>BO</u>			° <u>32.270</u>	° <u>12.307</u>		<u>248</u>	-			☐ ☐	
			<u>06:12</u>	<u>EN</u>			° <u>32.201</u>	° <u>12.305</u>			-			☐ ☐	
36	<u>AMARHS4</u>	<u>17</u>	<u>08:02</u>	<u>BE</u>	<u>ROS</u>		<u>48°33.166</u>	<u>123°12.180</u>	<u>271</u>		-		<u>SR</u>	☒ ☐	
			<u>08:07</u>	<u>BO</u>			° <u>33.163</u>	° <u>12.198</u>		<u>266</u>	-			☐ ☐	
			<u>08:10</u>	<u>EN</u>			° <u>33.163</u>	° <u>12.216</u>			-			☐ ☐	
37	<u>AMARHS5</u>	<u>17</u>	<u>10:03</u>	<u>BE</u>	<u>ROS</u>		<u>48°27.692</u>	<u>123°10.772</u>	<u>103</u>		-		<u>SR</u>	☒ ☐	
			<u>10:06</u>	<u>BO</u>			° <u>27.672</u>	° <u>10.753</u>		<u>99</u>	-			☐ ☐	
			<u>10:07</u>	<u>EN</u>			° <u>27.666</u>	° <u>10.715</u>			-			☐ ☐	
38	<u>AMARHS6</u>	<u>17</u>	<u>12:03</u>	<u>BE</u>	<u>CTD</u>		<u>48°29.634</u>	<u>123°11.536</u>	<u>229</u>		-		<u>SR</u>	☐ ☒	
			<u>12:07</u>	<u>BO</u>			° <u>29.627</u>	° <u>11.561</u>		<u>220</u>	-			☐ ☐	
			<u>12:09</u>	<u>EN</u>			° <u>29.636</u>	° <u>11.570</u>			-			☐ ☐	

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39	AMARBP7	18	02:12	BE	ROS		48°42.229	123°12.881	175		-		SR	☒	
			02:16	BO			°42.232	°12.865		170	-			☐	
			02:19	EN			°42.223	°12.842			-			☐	
40	AMARBP8		04:06	BE	ROS		48°44.048	123°8.094	158		-		SR	☒	
			04:09	BO			°44.029	°8.038		154	-			☐	
			04:11	EN			°44.022	°8.022			-			☐	
41	AMARBP9		06:08	BE	ROS		48°43.463	123°13.484	269		-		SR	☒	
			06:13	BO			°43.511	°13.454		265	-			☐	
			06:18	EN			°43.553	°13.418			-			☐	
42	AMARBP10		08:04	BE	ROS		48°44.885	123°7.086	95		-		SR	☒	
			08:06	BO			°44.881	°7.090		91	-			☐	
			:	EN			°44.	°7.			-			☐	
			:				°.	°.			-			☐	
			:				°.	°.			-			☐	
			:				°.	°.			-			☐	
			:				°.	°.			-			☐	
			:				°.	°.			-			☐	
			:				°.	°.			-			☐	
			:				°.	°.			-			☐	
			:				°.	°.			-			☐	

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