

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

C 30

2015-07

DATE:

From:

3 July 2015

To:

VESSEL:

CCGS Sir Wilfrid Laurier

PROJECT(S):

Canada's Three Oceans (C3O) w/ DBO

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

WaterProperties.ca

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>July</u>			Year <u>2015</u>			Vessel <u>SWC</u>			Cruise ID <u>2015-07</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
0	TEST	23	21:54	BE	ROS	US	48° 29.76	123° 14.86	74		n/a	24	JE	☒ ☐	test only
			22:04	Bo			48° 29.65	123° 14.96		62	-			☐ ☐	Niskins fired for integrity
			22:05	EN			48° 29.64	123° 14.98			-			☐ ☐	drifted shallow!
1		4	21:00	BE	UCTD		46° 59.35	128° 01.43	7200	400	N/A		SV	☐ ☐	3-14-1.Asc
2		4	22:00		XCTD		.	.	7200	1100	-		SV	☐ ☐	
3		5	01:49		ARGO		46° 29.98	129° 0.10			-		SV	☐ ☐	F# 200
4		5	03:00		UCTD		46° 32.3	129° 17.4	7200	400	-		SV	☐ ☐	3-15-1.Asc
5		5	12:13		ARGO		46° 48.19	131° 23.05			-		SV	☐ ☐	F# 188
6		5	15:00		UCTD		46° 52.75	132° 0.07	7200	400	-		SV	☐ ☐	3-15-2.Asc
7		5	21:02		ARGO		47° 3.5	133° 32.01			-		SV	☐ ☐	F# 201
8		5	21:05		UCTD		47° 3.5	133° 32.01			-		SV	☐ ☐	3-15-3.Asc
9		5	21:18		XCTD		.	.	7200	1100	-		SV	☐ ☐	
10		6	03:05		UCTD		47° 12.78	135° 8.42	7200	400	-		SV	☐ ☐	3-16-1.Asc
11		6	06:40		ARGO		47° 18.01	136° 6.19			-		SV	☐ ☐	F# 189
12		6	09:09		UCTD		47° 19.68	136° 45.87	7200	400	-		SV	☐ ☐	3-16-2.Asc
13		6	15:05		UCTD		47° 26.54	138° 22.80	7200	400	-		SV	☐ ☐	3-16-3.Asc
14		6	16:50		ARGO		47° 27.792	138° 49.736			-		SV	☐ ☐	F# 206
15		6	21:00		UCTD		47° 31.17	139° 59.36	7200	400	-		SV	☐ ☐	3-16-4.Asc
16		6	21:10		XCTD		47° 31.40	140° 4.50	7200	1100	-		SV	☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
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 SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
 _____ = _____

Bottle Firing Method:

US = Up / Stop (default)
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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TEST - Integrity check - all bottles except #19 have slow dribbles on the lower spigot which gets slower - prob OK.
Air valve check all OK.

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							Latitude	Longitude							
17		7	02:22		Argo		47° 34.9	141° 25.9	7200		-		SV	☐ ☐	F1.1 # 190
18		7	02:37		UCTO		47° 34.9	141° 25.9	7200	400	-		SV	☐ ☐	3-17-1.Asc
19		7	09:05		UCTO		47° 42.82	143° 16.51	7200	400	-		SV	☐ ☐	3-17-2.Asc
20		7	11:08		ARGO		47° 45.88	143° 58.12			-		SV	☐ ☐	F1.1 # 211
21		7	15:02		UCTO		47° 50.31	144° 50.20	7200	400	-		SV	☐ ☐	3-17-3.Asc
22		7	21:00		UCTO		47° 57.45	146° 22.17	7200	400	-		SV	☐ ☐	3-17-4.Asc
23		7	21:09		XCTO		47° 57.78	146° 25.36	7200	1100	-		SV	☐ ☐	C3-00010.2015
24		8	02:51		UCTO		48° 4.74	147° 54.32	7200	400	-		SV	☐ ☐	3-18-1.Asc
25		8	03:16		ARGO		48° 5.01	148° 0.24			-		SV	☐ ☐	F1.1 # 212
26		8	09:06		UCTO		48° 12.55	149° 31.95	7200	400	-		SV	☐ ☐	3-18-2.Asc
27		8	11:40		ARGO		48° 16.00	150° 13.97			-		SV	☐ ☐	F1.1 # 192
28		8	15:01		UCTO		48° 18.91	151° 3.57	7200	400	-		SV	☐ ☐	3-18-3.Asc
29		8	21:00		UCTO		48° 25.58	152° 24.25	7200	400	-		SV	☐ ☐	3-18-4.Asc
30		8	21:13		XCTO		48° 25.71	152° 42.678	7200	1100	-		SV	☐ ☐	C3-00011.2015
31		9	01:43		ARGO		48° 29.99	153° 54.12			-		SV	☐ ☐	F1.1 # 193
32		9	03:00		UCTO		48° 34.01	154° 12.87	7200	400	-		SV	☐ ☐	3-19-1.Asc
33		9	09:04		UCTO		48° 52.51	155° 45.54	7200	400	-		SV	☐ ☐	3-19-2.Asc
34		9	11:09		ARGO		49° 0.01	156° 16.94	7200		-		SV	☐ ☐	F1.1 # 207
35		9	15:02		UCTO		49° 14.99	157° 09.59	7200	400	-		SV	☐ ☐	3-19-3.Asc

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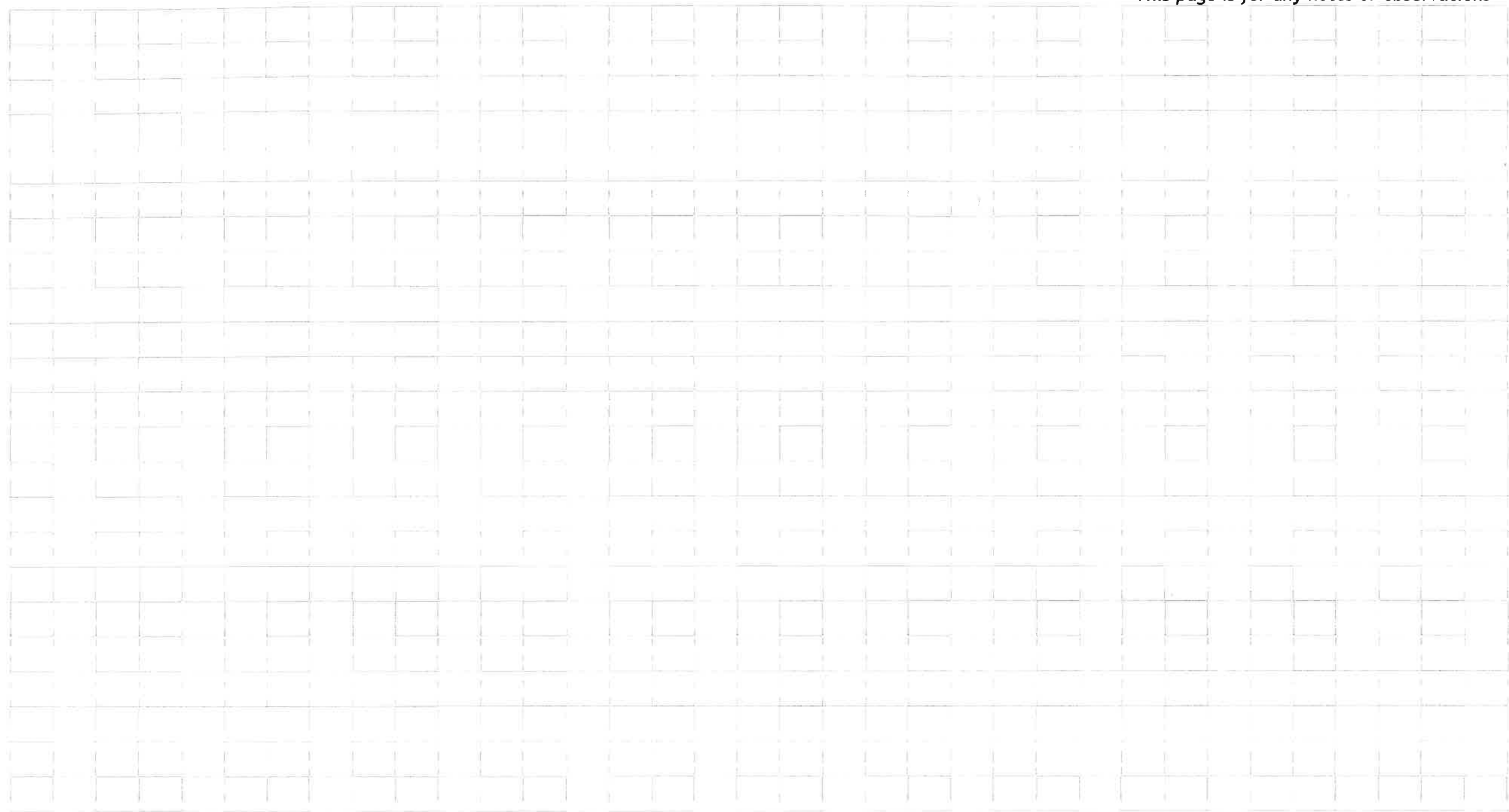
CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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							Latitude	Longitude							
36		9	20:40		AK60		49°39.99	158°34.01	7200		-		SV	☐	FL-1 # 213
37		9	20:44		UCTO		49°40.41	158°34.80	7200	400	-		SV	☐	2019-8.ASE
38		9	20:57		XCTO		49°42.447	158°37.00	7200	1100	-		SV	☐	C3-00012, L2015
39		10	03:01		UCTO		50°34.89	159°41.72	7200	400	-		SV	☐	30110-1.ASE
40		10	09:11		UCTO		51°28.63	160°49.44	7200	1100	-		SV	☐	30110-2.ASE
41		10	15:03		UCTO		52°20.19	161°54.52	5200	400	-		SV	☐	30110-3.ASE
42		10	21:00		UCTO		53°12.17	163°2.81	7200	400	-		SV	☐	30110-4.ASE
43		10	21:17		XCTO		53°14.299	163°5.541	7200	1100	-		SV	☐	C3-00012, L2015
44	SLIP-1	14	14:21	B2	ROS	US	62°0.596	175°3.604	76		-		Cat 1	☐	Bin 79950
44	SLIP-1	14	14:31	B0	ROS	US	62°0.589	175°3.599		726	1-14	14	SV	☒	
44	SLIP-1	14	:	EN	ROS		°	°			-			☐	
45	SLIP-1	14	:		NET		°	°			-			☐	
46	SLIP-1	14	:		ADCP		°	°			-			☐	
47	SLIP-1	14	:		MUDXS		°	°			-			☐	
48	SLIP-2	14	17:12	B2	ROS	US	62°2.989	175°12.64	84		15-21	7	Cat 2	☒	P2-0.4 Sec 11300
48	SLIP-2	14	17:16	B0	ROS	US	62°2.992	175°12.610		79	-			☐	
48	SLIP-2	14	17:27	EN	ROS	US	62°2.989	175°12.602			-			☐	
49	SLIP-2	14	17:05		ADCP		°	°			-			☐	
50	SLIP-2	14	17:35		NET		°	°			-			☐	

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Pump turned on put up down?

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Month <u>July</u>				Year <u>2015</u>		Vessel <u>SWL</u>		Cruise ID <u>2015-07</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
51	SLIP-2	14	17:55		OPTIX		°	°			-			☐	
52	SLIP-2	14	18:00		MUDS		°	°			-			☐	
53	SLIP-2B	14	20:07	BE	CTD	-	62°13.117	174°52.684	77		N/A	0	Cast 3	☒	P ₂ = -0.4 Scan 14600 Scan
53	SLIP-2B	14	20:12	BO	CTD		°	°		71	-			☐	
53	SLIP-2B	14	20:14	EN	CTD		62°13.117	174°52.688			-			☐	
54	SLIP-3	14	21:43	BE	ROS	US	62°23.390	174°34.220	71	66	22-33	12	Cast 4	☒	P ₂ = -0.4 Scan 12500
54	SLIP-3	14	21:49	BO	ROS	US	°	°			-			☐	
54	SLIP-3	14	21:58	EN	ROS	US	62°23.396	174°34.222			-			☐	
55	SLIP-3	14	:		ADCP		°	°			-			☐	
56	SLIP-3	14	:		NET		°	°			-			☐	
57	SLIP-3	14	:		OPTIX		°	°			-			☐	
58	SLIP-3	14	:		MUDS		°	°			-			☐	
59	SLIP-3B	15	00:30	BE	CTD	-	62°28.069	174°4.987	69	64	-		Cast 5	☒	P ₂ = -0.3 Scan # 8580
59	SLIP-3B	15	00:35	BO	CTD		62°28.076	174°5.006			-			☐	
59	SLIP-3B	15	00:37	EN	CTD		62°28.079	174°4.997			-			☐	
60	SLIP-5	15	02:20	BE	ROS	US	62°33.617	173°33.071	66	60	34-45	12	Cast 6	☒	P ₂ = -0.4 Scan # 9900
60	SLIP-5	15	02:25	BO	ROS		62°33.614	173°33.055			-			☐	
60	SLIP-5	15	02:33	EN	ROS		62°33.612	173°33.029			-			☐	
61	SLIP-5	15	:		ADCP		°	°			-			☐	

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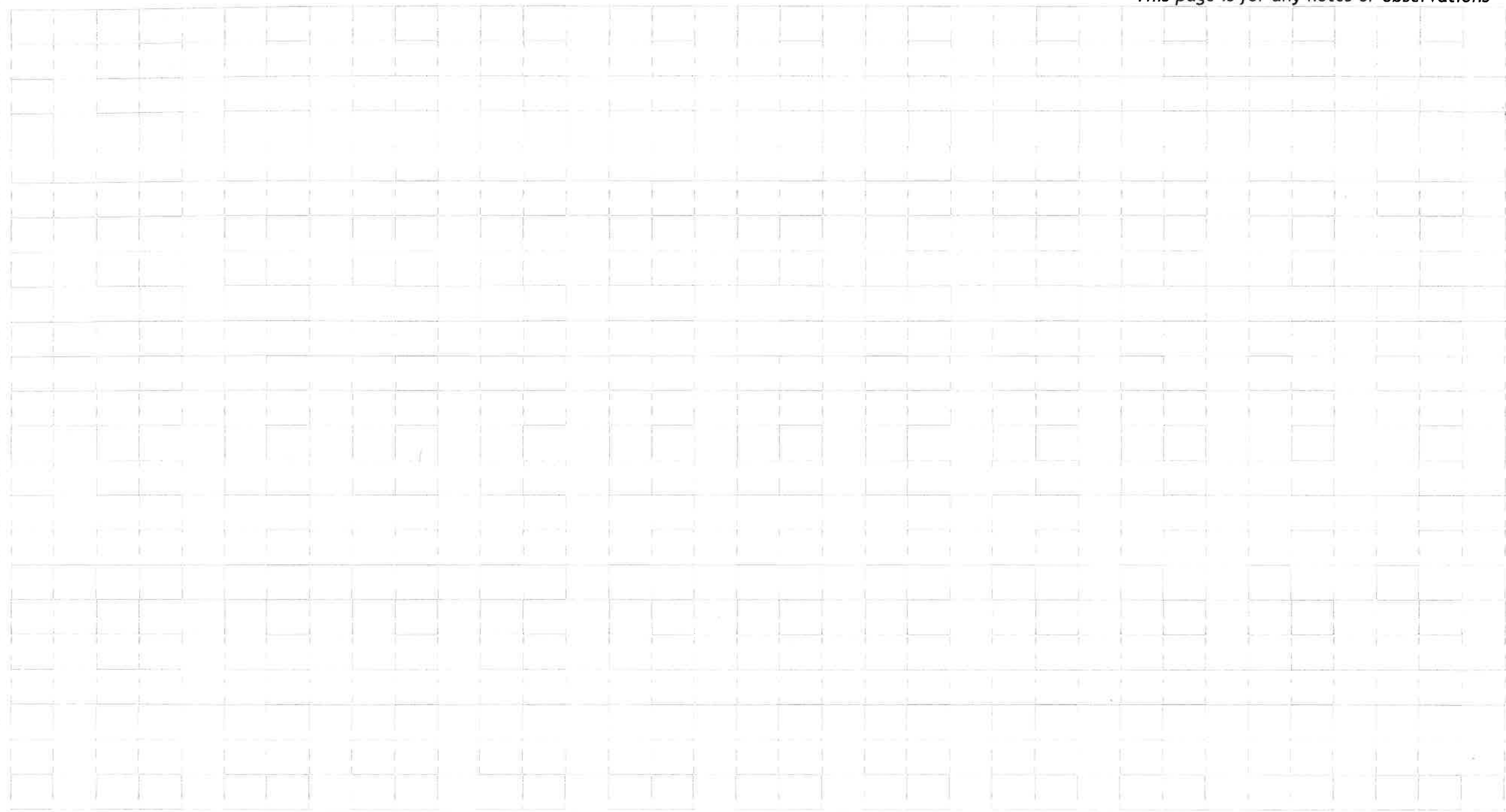
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62	SLIP-5	15	02:40		NETS		° .	° .			-			☐ ☐	
63	SLIP-5	15	:		MUDS		° .	° .			-			☐ ☐	
64	SLIP-5B	15	04:49	BE	CTD	-	62° 47.192	173° 30.026	71	64	N/A	0	Cat#7	☒ ☐	P ₂ = 0.4 Scan # 8000
64	SLIP-5B	15	04:50	BO	CTD		° .	° .			-			☐ ☐	
64	SLIP-5B	15	04:56	EN	CTD		62° 47.198	173° 30.023			-			☐ ☐	
65	SLIP-4	15	06:30	BE	ROS	US	63° 1.759	173° 27.632	74	68	46-67	22	Cat#8	☒ ☐	P ₂ = 0.4 Scan # 8300
65	SLIP-4	15	06:35	BO	ROS	US	63° 1.747	° .			-			☐ ☐	
65	SLIP-4	15	06:49	EN	ROS	US	63° 1.739	173° 27.620			-			☐ ☐	
66	SLIP-4	15	:		ADCP		° .	° .			-			☐ ☐	
67	SLIP-4	15	:		NET		° .	° .			-			☐ ☐	
68	SLIP-4	15	:		MUDS		° .	° .			-			☐ ☐	
69	SLIP-4B	15	09:29	BE	CTD	-	63° 16.789	173° 4.775	69	64	-	0	Cat#9	☒ ☐	P ₂ = 0.4 Scan # 9700
69	SLIP-4B	15	09:33	BO	CTD	-	63° 16.790	173° 4.795			-			☐ ☐	
69	SLIP-4B	15	09:35	EN	CTD		63° 16.787	173° 4.802			-			☐ ☐	
70	SLIP-4C	15	11:53	BE	CTD		63° 36.227	172° 25.410	54	48	-		Cat#10	☒ ☐	P ₂ = 0.4 Cat#10 Scan # 6500
70	SLIP-4C	15	11:57	BO	CTD		63° 36.220	172° 25.407			-			☐ ☐	
70	SLIP-4C	15	11:59	EN	CTD		63° 36.220	172° 25.408			-			☐ ☐	
71	BCL-6A	15	14:09	BE	ROS	US	63° 55.198	172° 5.984	53	49	68-77	10	Cat#11	☒ ☐	P ₂ = 0.4 Cat#11 Scan # 7900
71	BCL-6A	15	14:15	BO	ROS	US	63° 55.217	172° 5.952			-			☐ ☐	

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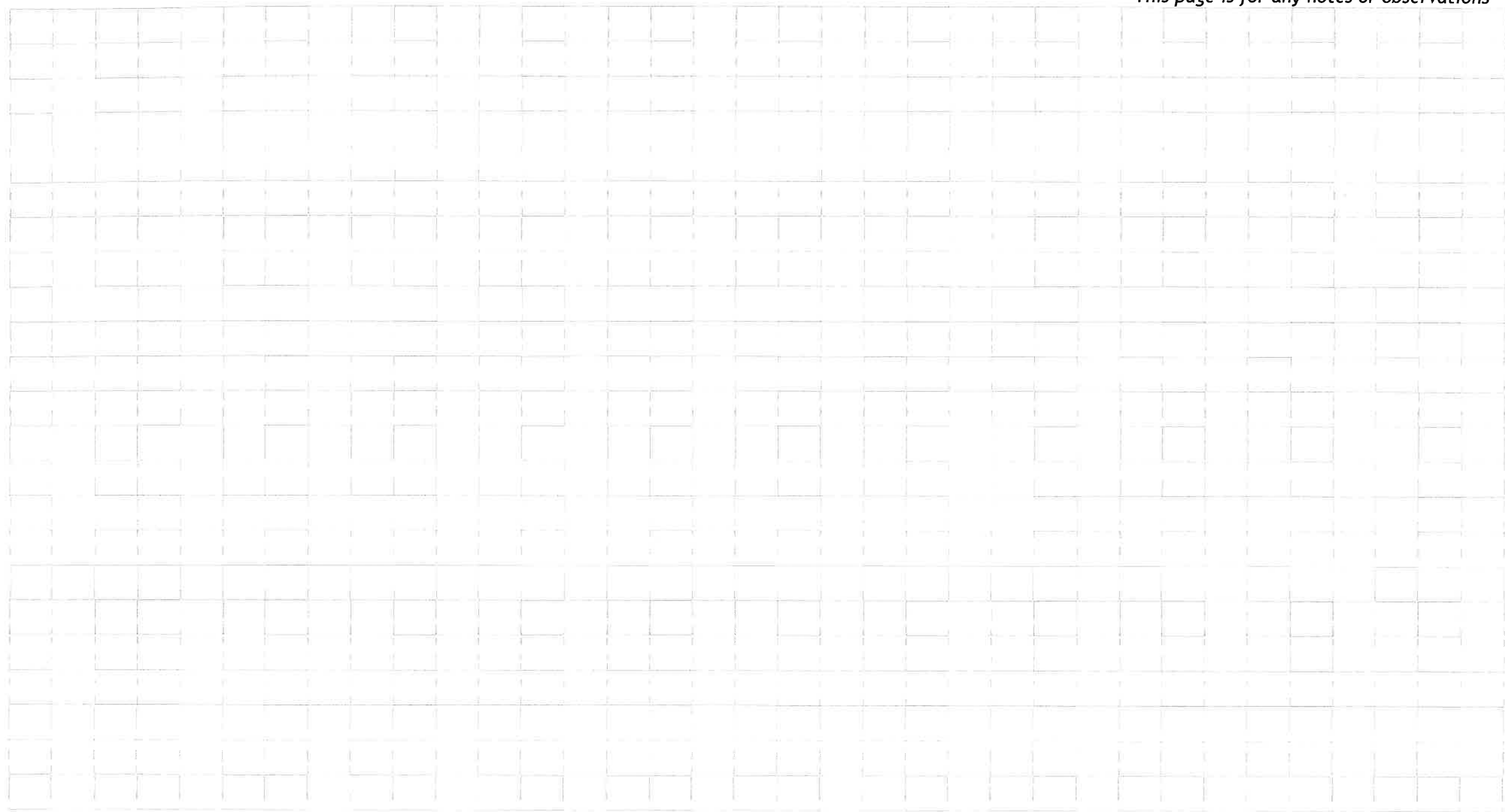
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							Latitude	Longitude							
71	BCL-GA	15	14:22	EN	ROS	US	63° 55.249	172° 5.876		49	-			☐	
72	BCL-GA	15	:		NET		°	°			-			☐	
73	BCL-GB	15	17:00	BE	CTD	-	64° 17.519	171° 29.773	49	44	N/A	0	Cast 12	☒	P _r = 0.3 Scan # 11600
73	BCL-GB	15	17:05	BO	CTD	-	64° 17.524	171° 29.762			-			☐	
73	BCL-GB	15	17:07	EN	CTD	-	64° 17.528	171° 29.747			-			☐	
74	BCL-GC	15	19:59	BE	CTD	-	64° 40.303	170° 38.694	47	43	N/A	0	Cast 13	☒	P _r = 0.4 Scan # 9600
74	BCL-GC	15	20:04	BO	CTD	-	64° 40.316	170° 38.654			-			☐	
74	BCL-GC	15	20:06	EN	CTD	-	64° 40.316	170° 38.654			-			☐	
75	UTBS-5	15	21:57	BE	ROS	US	64° 40.327	169° 55.367	48	43	78-82	5	Cast 14	☒	P _r = 0.4 de Scan # 8500
75	UTBS-5	15	22:01	BO	ROS	US	64° 40.321	169° 55.355			-			☐	
75	UTBS-5	15	22:07	EN	ROS	US	64° 40.328	169° 55.364			-			☐	
76	"	15	:		ADCP		°	°			-			☐	
77	"	15	:		NET		°	°			-			☐	
78	"	15	:		OPTIX		°	°			-			☐	
79	"	15	:		MUOX5		°	°			-			☐	
80	UTBS-2	16	01:17	BE	ROS	US	64° 40.945	169° 6.324	45	40	83-92	10	Cast 15	☒	P _r = 0.5 Scan # 10200
80	UTBS-2	16	01:22	BO	ROS	US	64° 40.938	169° 6.316			-			☐	
80	UTBS-2	16	01:28	EN	ROS	US	64° 40.939	169° 6.306			-			☐	
81	UTBS-2		:		NET		°	°			-			☐	

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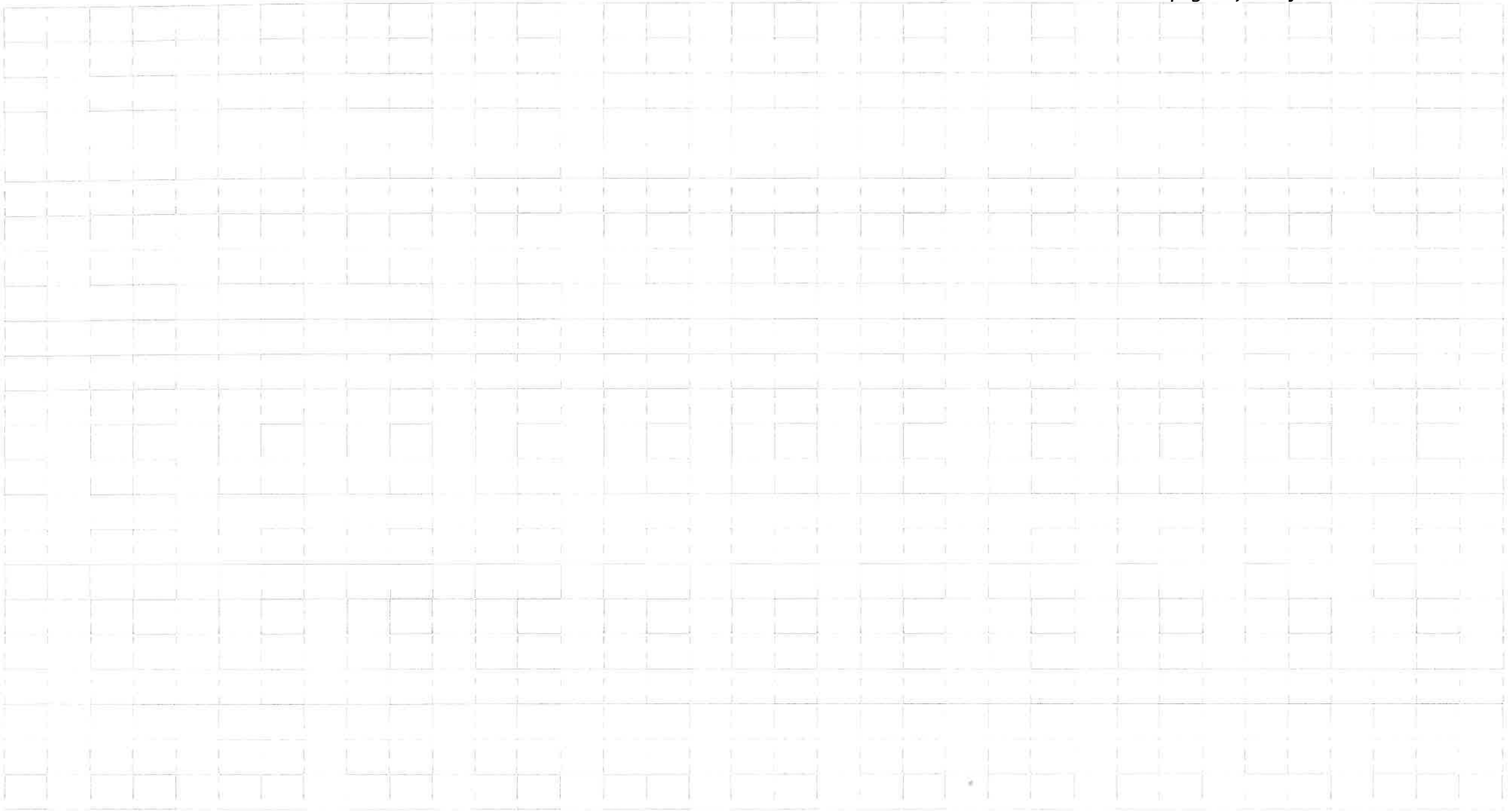
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82	UTBS-2	16	:		ADCP		° .	° .			-			☐	
83	UTBS-2	16	:		MUDS		° .	° .			-			☐	
84	UTBS-2A	16	04:24	BE	CTD	-	64° 40.282	168° 14.166	38	33	N/A	0	Cast 16	☒	P=0.5 Scan # 13400
84	UTBS-2A	16	04:28	BO	CTD		64° 40.291	168° 14.166			-			☐	
84	UTBS-2A	16	04:31	EN	CTD		64° 40.295	168° 14.162			-			☐	
85	UTBS-4	16	08:55	BE	ROS	US	64° 57.666	169° 53.263	48	44	93-102	10	Cast 17	☒	P=0.4 Scan # 8600
85	UTBS-4	16	09:00	BO	ROS	US	64° 57.671	169° 53.274			-			☐	
85	UTBS-4	16	09:07	EN	ROS	US	64° 57.671	169° 53.284			-			☐	
86	UTBS-4	16	:		ADCP		° .	° .			-			☐	
87	UTBS-4	16	:		NET		° .	° .			-			☐	
88	UTBS-4	16	:		MUDS		° .	° .			-			☐	
89	UTBS-1	16	11:48	BE	ROS	US	64° 59.478	169° 8.404	48	44	103-118	16	CAST 18	☒	P=0.4 Scan # 8900
89	UTBS-1	16	11:53	BO	ROS	US	64° 59.478	169° 8.412			-			☐	
89	UTBS-1	16	12:05	EN	ROS	US	64° 59.478	169° 8.362			-			☐	
90	UTBS-1		:		ADCP		° .	° .			-			☐	
91	UTBS-1		:		NET		° .	° .			-			☐	
92	UTBS-1		:		MUDS		° .	° .			-			☐	
93	BRS-3	16	16:50	BE	ROS	US	65° 42.270	168° 46.656	52	46	119-128	10	CAST 19	☒	P=0.4 Scan # 13000
93	BRS-3	16	16:54	BO	ROS	US	65° 42.269	168° 46.625			-			☐	

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
SET = Fish Set

LOOP = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
=

Bottle Firing Method:

US = Up / Stop (default)
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

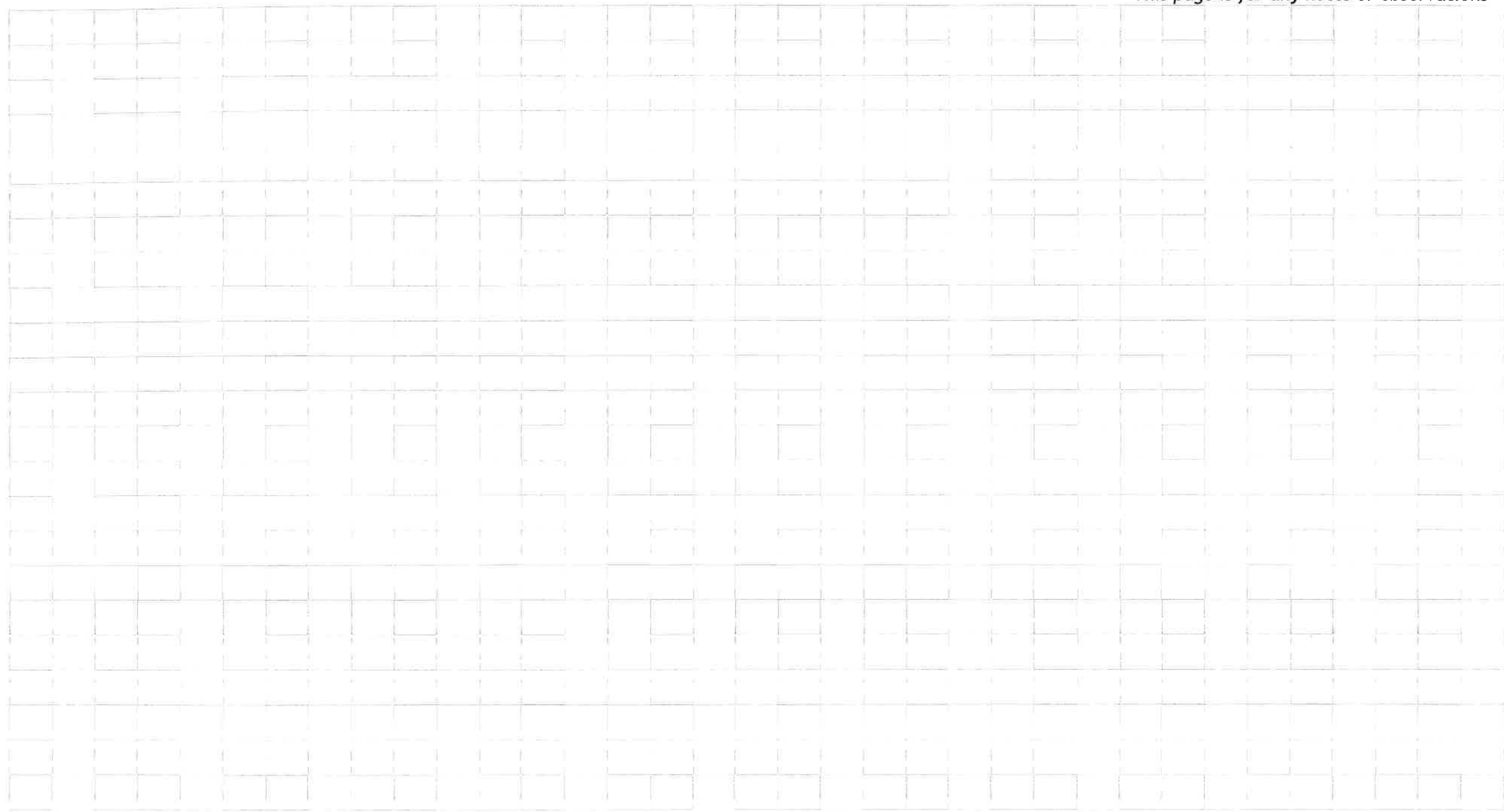
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Notes:

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Month <u>July</u>			Year <u>2015</u>			Vessel <u>SWL</u>			Cruise ID <u>2015-07</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
93	BRS-3	16	17:02	EN	ROS	US	65° 42.271	163° 46.660	52	46	119-128	10	Cast 19	☐	
94	BRS-3	16	:		NET		°	°			-			☐	
95	UTN-1	16	22:31	BE	ROS	US	66° 42.650	168° 23.944	34	25	129-136	8	Cast 20	☒	P ₂ -0.4 Scan # 8000
95	UTN-1	16	22:36	BO	ROS	US	66° 42.659	168° 23.905			-			☐	
95	UTN-1	16	22:41	EN	ROS	US	66° 42.656	168° 23.945			-			☐	
96	"	16	:		ADCP		°	°			-			☐	
97	"	16	:		NET		°	°			-			☐	
98	"	16	:		OPTIX		°	°			-			☐	
99	"	16	:		MUD*5		°	°			-			☐	
100	UTN-2	17	01:26	BE	ROS	US	67° 2.992	168° 43.688	46	40	137-141	5	Cast 21	☒	P ₂ -0.4 Scan # 9200
100	UTN-2	17	01:31	BO	ROS	US	67° 2.987	168° 43.681			-			☐	
100	UTN-2	17	01:37	EN	ROS	US	67° 2.982	168° 43.688			-			☐	
101	UTN-2	17	:		ADCP		°	°			-			☐	
102	UTN-2	17	:		NET		°	°			-			☐	
103	UTN-2	17	:		OPTIX		°	°			-			☐	
104	UTN-2	17	:		MUD*7		°	°			-			☐	
105	UTN-3	17	04:17	BE	ROS	US	67° 19.657	168° 56.534	49	44	142-151	10	Cast 22	☒	P ₂ -0.4 Scan # 7400
105	UTN-3	17	04:22	BO	ROS	US	67° 19.646	168° 56.543			-			☐	
105	UTN-3	17	04:28	EN	ROS	US	67° 19.649	168° 56.537			-			☐	

Event Type:

BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
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 DRF = Drifter

____ = _____

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Notes:

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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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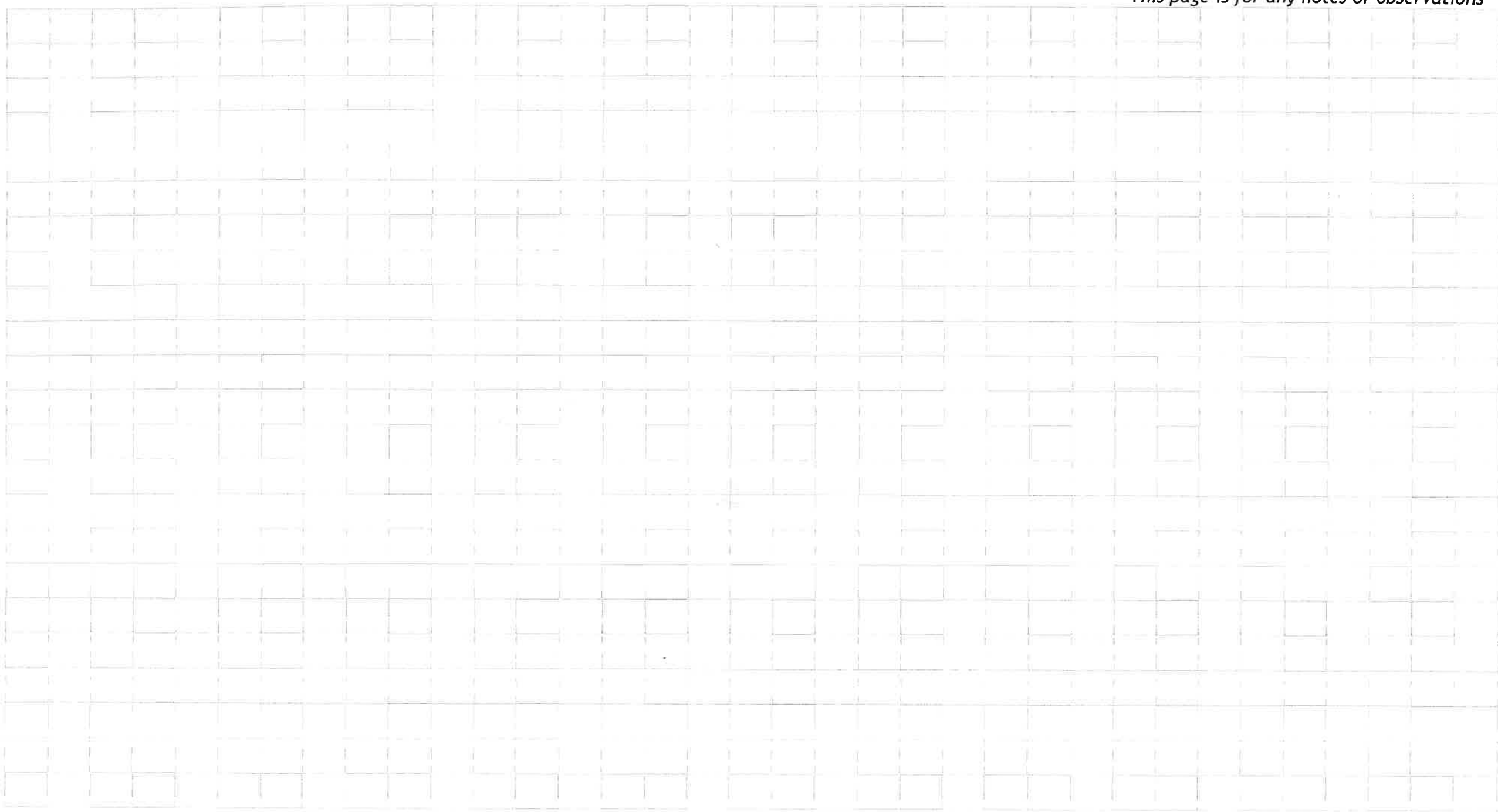
MR = Messenger Release Time

RE = Recover Mooring Time

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Month <u>July</u>				Year <u>2015</u>		Vessel <u>SWL</u>		Cruise ID <u>2015-07</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude						☐	
106	UTN-3	17	:		NET		°	°			-			☐	
107	UTN-3	17	:		ADCP		°	°			-			☐	
108	UTN-3	17	:		MUDXS		°	°			-			☐	
109	UTN-4	17	06:19	BE	ROS	US	67° 29.989	168° 56.575	49	44	152 - 171	20	Cast 23	☒	Pz - 0.5 Scan # 8700
109	UTN-4	17	06:24	BO	ROS	US	67° 29.984	168° 56.594			-			☐	
109	UTN-4	17	06:35	EN	ROS	US	67° 29.987	168° 56.605			-			☐	
110	UTN-4	17	:		ADCP		°	°			-			☐	
111	UTN-4	17	:		NET		°	°			-			☐	
112	UTN-4	17	:		MUDXS		°	°			-			☐	
113	SEC-8	17	17:00	BE	ROS	US	68° 18.119	166° 56.351	35	30	172 - 175	4	Cast 24	☒	Pz - 0.4 Scan # 7100
113	SEC-8	17	17:04	BO	ROS	US	68° 18.118	166° 56.358			-			☐	
113	SEC-8	17	17:09	EN	ROS	US	°	°			-			☐	
114	SEC-8	17	:		ADCP		°	°			-			☐	
115	SEC-8	17	:		NET		°	°			-			☐	
116	SEC-8	17	:		1700x2		°	°			-			☐	
117	SEC-8	17	:		OPTIX		°	°			-			☐	
118	SEC-7	17	19:07	BE	ROS	US	68° 14.491	167° 7.338	43	37	176 - 185	10	CAST 25	☒	Pz - 0.4 Scan # 7700
118	SEC-7	17	19:12	BO	ROS	US	68° 14.497	167° 7.360			-			☐	
118	SEC-7	17	19:18	EN	ROS	US	° 14.501	° 7.368			-			☐	

Event Type:

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 DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
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Notes:

Time Code:

BE = Beginning Time of Cast
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 EN = End Time of Cast

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

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Month				Year			Vessel		Cruise ID						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude						☐	
119	SEC-7		:		AOC		°	°			-			☐	
120	SEC-7		:		NET		°	°			-			☐	
121	SEC-7		:		MUD		°	°			-			☐	
122	SEC-6	17	20:23	BE	ROS	US	68° 11' .086	167° 18' .492	48	44	186 - 190	5	CAST 26	☒	P2-0.4 Scan # 7200
122	SEC-6	17	20:27	BO	ROS	US	68° 11' .088	167° 18' .498			-			☐	
122	SEC-6	17	20:34	EN	ROS	US	68° 11' .091	167° 18' .499			-			☐	
123			:		AOC		°	°			-			☐	
124			:		NET		°	°			-			☐	
125			:		OPTIX		°	°			-			☐	
126			:		MUD		°	°			-			☐	
127	SEC-5	17	21:50	BE	ROS	US	68° 7' .632	167° 29' .741	50	45	191 - 200	10	CAST 27	☒	P2-0.4 Scan # 7900
127	SEC-5	17	21:54	BO	ROS	US	68° 7' .624	167° 29' .743			-			☐	
127	SEC-5	17	22:01	EN	ROS	US	68° 7' .620	167° 29' .759			-			☐	
128	SEC-5		:		AOC		°	°			-			☐	
129	SEC-5		:		NET		°	°			-			☐	
130	SEC-5		:		MUD		°	°			-			☐	
131	SEC-4	18	00:45	BE	ROS	US	68° 0' .775	167° 51' .992	52	47	201 - 205	5	CAST 28	☒	P2-0.4 Scan # 9200
131	SEC-4	18	00:51	BO	ROS		68° 0' .780	167° 51' .992			-			☐	
131	SEC-4	18	00:56	EN	ROS		68° 0' .772	167° 52' .001			-			☐	

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

Event Type:

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CTD = Standalone CTD
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SET = Fish Set

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DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
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

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Month <u>Jul</u>				Year <u>2015</u>		Vessel <u>SWL</u>				Cruise ID <u>2015-07</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
132	SEC-4	18	:		ADCP		° .	° .			-			☐	
133	SEC-4	18	:		NET		° .	° .			-			☐	
134	SEC-4	18	:		MUDXS		° .	° .			-			☐	
135	SEC-3	18	03:03	BE	ROS	US	67° 53.856	168° 14.050	59	54	206 - 215	10	Cal 29	☒	P ₂ = 0.4 Scan # 8200
135	SEC-3	18	03:07	BO	ROS	US	67° 53.857	168° 14.070			-			☐	
135	SEC-3	18	03:13	EN	ROS	US	67° 53.855	168° 14.098			-			☐	
136	SEC-3	18	:		ADCP		° .	° .			-			☐	
137	SEC-3	18	:		NET		° .	° .			-			☐	
138	SEC-3	18	:		MUDXS		° .	° .			-			☐	
139	UTN-6	18	04:58	BE	ROS	US	67° 44.376	168° 26.360	49	43	216 - 220	5	CAS 30	☒	P ₂ = 0.4 Scan # 8700
139	UTN-6	18	05:03	BO	ROS	US	67° 44.380	168° 26.338			-			☐	
139	UTN-6	18	05:08	EN	ROS	US	67° 44.372	° .354			-			☐	
140	UTN-6	18	:		ADCP		° .	° .			-			☐	
141	UTN-6	18	:		NET		° .	° .			-			☐	
142	UTN-6	18	:		MUDXS		° .	° .			-			☐	
143	SEC-2	18	06:23	BE	ROS	US	67° 46.956	168° 36.112	50	44	221 - 225	5	CAS 31	☒	P ₂ = 0.4 Scan # 9200
143	SEC-2	19	06:28	BO	ROS	US	67° 46.958	168° 36.101			-			☐	
143	SEC-2	18	06:34	EN			° .970	° .125			-			☐	
144			:		ADCP		° .	° .			-			☐	

Event Type:
 BOT = Bottle cast (no CTD)
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LOOP = Sea Water Loop
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 NET = Plankton Net Haul
 DRF = Drifter

Bottle Firing Method:
 US = Up / Stop (default)
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Time Code:
 BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products
 DE = Deployment Time
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 RE = Recover Mooring Time

Notes:

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Month July			Year 2015			Vessel SKL			Cruise ID 2015-07						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
145	SEC-2	18	:		NET		°	°			-			☐	
146	SEC-2	18	:		MUDXS		°	°			-			☐	
147	SEC-1	18	08:44	BE	ROS	US	67° 40.192	168° 57.599	51	46	226 - 235	10	Cat 32	☒	P2-0.4 Scan # 11000
147	SEC-1	18	08:48	BO			67° 40.196	168° 57.588			-			☐	
147	SEC-1	18	08:54	EN			° .202	° .563			-			☐	
148	SEC-1		:		ADCP		°	°			-			☐	
149	SEC-1		:		NET		°	°			-			☐	
150	SEC-1		:		MUDXS		°	°			-			☐	
151	UTN-7	18	12:33	BE	ROS	US	67° 59.998	168° 56.618	57	52	236 - 247	12	Cat 33	☒	P2-0.4 Scan # 7900
151	UTN-7	18	12:38	BO	ROS	US	67° 59.999	168° 56.612			-			☐	
151	UTN-7	18	12:46	EN	ROS	US	67° 59.994	168° 56.602			-			☐	
152	UTN-7		:		ADCP		°	°			-			☐	
153	UTN-7		:		NET		°	°			-			☐	
154	UTN-7		:		MUDXS		°	°			-			☐	
155	DBO 4.6	19	16:00	BE	ROS	US	71° 37.007	163° 47.357	42	37	248 - 252	5	Cat 34	☒	P2-0.3 Scan # 8600
155	DBO 4.6	19	16:05	BO			°	°			-			☐	
155	DBO 4.6	19	16:12	EN			71° 37.002	163° 47.341			-			☐	
156	DBO 4.6		:		ADCP		°	°			-			☐	
157	DBO 4.6		:		NET		°	°			-			☐	

Event Type:

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=

Bottle Firing Method:

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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Month <u>July</u>				Year <u>2015</u>		Vessel <u>SWC</u>				Cruise ID <u>2015-07</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
							Latitude	Longitude							
158	DB04.6	19	:		OPTIX		° .	° .			-			☐	
159	DB04.6	19	:		MUDAS		° .	° .			-			☐	
160	DB04.5A	19	18:04	BE	CTD	-	71° 33.251	163° 36.025	44	39	N/A	0	CAST#35	☒	pr-0.3 Scan # 8400
160	DB04.5A	19	18:08	BO	CTD	-	71° 33.252	163° 36.026			-			☐	
160	DB04.5A	19	18:10	EN	CTD	-	71° 33.253	163° 36.025			-			☐	
161	DB04.5	19	19:05	BE	ROS	US	71° 29.398	163° 24.618	42	37	253-262	10	CAST#36	☒	pr-0.1 Scan # 8400
161	DB04.5	19	19:09	BO	ROS	US	71° 29.377	163° 24.625			-			☐	
161	"	19	19:15	EN	ROS	US	° .374	° .648			-			☐	
162	"	19	:		ADCP		° .	° .			-			☐	
163	"	19	:		NET		° .	° .			-			☐	
164	"	19	:		OPTIX		° .	° .			-			☐	
165	"	19	:		MUDAS		° .	° .			-			☐	
166	DB04.4A	19	20:46	BE	CTD	-	71° 25.721	163° 13.821	43	38		0	CAST#37	☒	pr-0.3 Scan # 12700
166	DB04.4A	19	20:50	BO	CTD	-	° .712	° .771			-			☐	
166	DB04.4A	19	20:52	EN	CTD	-	° .708	° .747			-			☐	
167	DB04.4	19	21:36	BE	ROS	US	71° 21.691	163° 1.860	44	39	263-282	20	CAST#38	☒	pr-0.3 Scan # 7500
167	DB04.4	19	21:40	BO	ROS	US	° .698	° .879			-			☐	
167	DB04.4	19	21:50	EN	ROS	US	° .702	° .878			-			☐	
168	"	19	:		ADCP		° .	° .			-			☐	

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Notes:

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Month 7-14				Year 2015		Vessel SWL		Cruise ID 2015-07							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude						☐	
169	DB04.4	19	:		NET		°	°			-			☐	
170	"	19	:		NET		°	°			-			☐	
171	"	19	:		MUOAS		°	°			-			☐	
172	DB04.3A	19	23:23	BE	CTD	-	71° 17.754	162° 50.221	47	42	-	0	CAS 39	☒	P2-0.4 Scn # 7300
172	DB04.3A	19	23:28	Bo	CTD	-	° .753	° .212			-			☐	
172	DB04.3A	19	23:30	EN	CTD	-	° .754	° .219			-			☐	
173	DB04.3	20	00:40	BE	ROS	US	71° 13.964	162° 39.040	47	42	283-292	10	CAS 40	☒	P2-0.3 Scn # 7200
173	DB04.3	20	00:45	Bo	ROS	US	° .961	° .061			-			☐	
173	DB04.3	20	00:51	EN	ROS	US	° .961	° .043			-			☐	
174	"	"	:		ADCP		°	°			-			☐	
175	"	"	:		NET		°	°			-			☐	
176	"	"	:		MUOAS		°	°			-			☐	
177	DB04.2A	20	02:03	BE	CTD	-	71° 10.276	162° 28.226	45	40	-	0	CAS 41	☒	P2-0.3 Scn # 12400
177	DB04.2A	20	02:08	Bo	CTD	-	° .272	° .225			-			☐	
177	DB04.2A	20	02:09	EN	CTD	-	° .272	° .234			-			☐	
178	DB04.2	20	02:50	BE	ROS	US	71° 6.235	162° 16.463	46	41	290-302	10	CAS 42	☒	P2-0.3 Scn # 7800
178	DB04.2	20	02:54	Bo	ROS	US	° .232	° .501			-			☐	
178	DB04.2	20	03:00	EN	ROS	US	° .234	° .501			-			☐	

Event Type:
 BOT = Bottle cast (no CTD)
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Bottle Firing Method:
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Time Code:
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 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Month July			Year 2015			Vessel SWL			Cruise ID 2015-07						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
179	DB04.2	20	:		ADCP		° .	° .			-			☐	
180	DB04.2	20	:		NET		° .	° .			-			☐	
181	DB04.2	20	:		MUOX5		° .	° .			-			☐	
182	DB04.1A	20	04:09	BE	CTD	-	71° 2' .426	162° 5' .568	45	40	/	0	Cast 43	☒	P2-0.3 Scan # 8900
182	DB04.1A	20	04:12	BO	CTD	-	° .426	° .556			-			☐	
182	DB04.1A	20	04:14	EN	CTD	-	° .423	° .537			-			☐	
183	DB04.1	20	04:57	BE	ROS	US	70° 58' .420	161° 53' .728	45		303-312	10	Cast 44	☒	P2-0.3 Scan # 6800
183	DB04.1	20	05:02	BO	ROS	US	° .	° .		39	303-312	10		☐	
183	DB04.1	20	05:08	EN	ROS	US	° .424	° .780			-			☐	
184	DB04.1	20	:		ADCP		° .	° .			-			☐	
185	"	20	:		NET		° .	° .			-			☐	
186	DB04.1	20	:		MUOX5		° .	° .			-			☐	
187	B-C-10	20	19:26	BE	ROS	US	71° 37' .052	157° 54' .744	64	59	313-325	13	Cast 45	☒	P2-0.3 Scan # 10900
187	B-C-10	20	19:31	BO	ROS		° .051	° .714		59	-			☐	
187	B-C-10	20	19:39	EN	ROS		° .057	° .682			-			☐	
188			:		ADCP		° .	° .			-			☐	
189			:		NET		° .	° .			-			☐	
190			:		MUOX2		° .	° .			-			☐	
			:				° .	° .			-			☐	

Event Type:

BOT = Bottle cast (no CTD)
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Bottle Firing Method:

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Month <u>July</u>				Year <u>2015</u>		Vessel <u>Swk</u>			Cruise ID <u>2015-07</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
191	BnC-9	20	20:23	BE	ROS	US	71°34.682	157°49.915	65		326-331	6	Cat 46	☒ ☐	P2-0.3 Scan # 7500
191	"	20	20:28	BO	ROS		° .679	° .903		59	-			☐ ☐	
191	BnC-9	20	20:35	EN	ROS		° .681	° .843			-			☐ ☐	
192			:		ADCP		° .	° .			-			☐ ☐	
193			:		NET		° .	° .			-			☐ ☐	
194			:		MUDx2		° .	° .			-			☐ ☐	
195	BnC-8	20	21:25	BE	ROS	US	71°32.233	157°44.824	72	67	332-343	12	Cat 47	☒ ☐	P2-0.3 Scan # 6800
195	BnC-8	20	21:30	BO	ROS	US	° .225	° .766			-			☐ ☐	
195	BnC-8	20	21:37	EN	ROS	US	° .221	° .831			-			☐ ☐	
196			:		ADCP		° .	° .			-			☐ ☐	
197			:		NET		° .	° .			-			☐ ☐	
198			:		OPTIX		° .	° .			-			☐ ☐	
199			:		MUDx2		° .	° .			-			☐ ☐	
200	BnC-7	20	22:40	BE	ROS	US	71°30.008	157°40.284	82	79	344-349	6	Cat 48	☒ ☐	P2-0.2 Scan # 7500
200	BnC-7	20	22:46	BO	ROS		° .002	° .316		79	-			☐ ☐	
200	BnC-7	20	22:53	EN	ROS		° 29.980	° .316			-			☐ ☐	
201			:		ADCP		° .	° .			-			☐ ☐	
202			:		NET		° .	° .			-			☐ ☐	
203			:		MUDx2		° .	° .			-			☐ ☐	

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Month <u>July</u>				Year <u>2015</u>			Vessel <u>SWL</u>			Cruise ID <u>2015-07</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
204	BarC-6	21	00:42	BE	ROS	US	71° 27.320	157° 34.705	110		350-363	14	Cash 49	☒ ☐	pr-0.2 Scan # 8400
204	BarC-6	21	00:49	BO	ROS		° .323	° .704		106	-			☐ ☐	
204	BarC-6	21	00:59	EN	ROS		° .307	° .741			-			☐ ☐	
205			:		ADCP		° .	° .			-			☐ ☐	
206			:		NET		° .	° .			-			☐ ☐	
207			:		OPTIX		° .	° .			-			☐ ☐	
208			:		MUD-2		° .	° .			-			☐ ☐	
209	BarC-5	21	02:41	BE	ROS	US	71° 24.605	157° 29.466	125	121	364-387	24	Cash 50	☒ ☐	pr-0.2 Scan # 5700
209	BarC-5	21	02:46	BO	ROS		° .608	° .484			-			☐ ☐	
209	BarC-5	21	03:00	EN	ROS		° .606	° .516			-			☐ ☐	
210	BarC-5	21	:		ADCP		° .	° .			-			☐ ☐	
211	BarC-5	21	:		NET		° .	° .			-			☐ ☐	
212	BarC-5	21	:		OPTIX		° .	° .			-			☐ ☐	
213	BarC-5	21	:		MUD-5		° .	° .			-			☐ ☐	
214	BarC-4	21	04:54	BE	ROS	US	71° 22.333	157° 24.822	112	109	388-403	16	Cash 51	☒ ☐	pr-0.2 Scan # 7600
214	BarC-4	21	05:00	BO	ROS	US	° .326	° .808			-			☐ ☐	
214	BarC-4	21	05:09	EN	ROS	US	° .327	° .787			-			☐ ☐	
215			:		ADCP		° .	° .			-			☐ ☐	
216			:		NET		° .	° .			-			☐ ☐	

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Notes:

Computer program crashed and had to be
restarted

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Month July			Year 2015			Vessel SWL			Cruise ID 2015-07						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
217	BWC-4	21	:		MUOx2		°	°			-			☐	
218	BARC-3	21	06:30	BE	ROS	US	71° 19.813	157° 19.734	92	87	404-410	7	Cut 52	☒	pr-03 Scan # 7600
218	BWC-3	21	06:35	BO	ROS	US	° .822	° .668			-			☐	
218	BWC-3	21	06:45	EN	ROS	US	° .817	° .678			-			☐	
219		21	:		ADCP		°	°			-			☐	
220		21	:		NET		°	°			-			☐	
221		21	:		MUOx2		°	°			-			☐	
222	BWC-2	21	08:04	BE	ROS	US	71° 17.292	157° 14.738	57	52	411-418	8	Cut 53	☒	pr-03 Scan # 7900
222	BWC-2	21	08:08	BO	ROS		° .299	° .719			-			☐	
222	BWC-2	21	08:12	EN	ROS		° .318	° .629			-			☐	
223		21	:		ADCP		°	°			-			☐	
224		21	:		NET		°	°			-			☐	
225		21	:		MUOx2		°	°			-			☐	
226	BWC-1	21	09:28	BE	ROS	US	71° 14.834	157° 9.694	47		419-422	4	Cut 54	☒	pr-02 Scan # 7100
226	BARC-1		09:33	BO	ROS	US	° .855	° .695		42	-			☐	
226	"		09:37	EN	ROS	US	° .886	° .661			-			☐	
227	"		:		ADCP		°	°			-			☐	
228	"		:		NET		°	°			-			☐	
229	"		:		MUOx2		°	°			-			☐	

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Event Type:

Deployment Type:
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