Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: MID-WINTER (JAN.) 2012 Page 1 / 1

CTD #: 5 Data Dump # (0209) Observer(s): Sharman, Reidorph, ~~[illegible]~~ R. Sharman

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
~~01~~	~~01~~	~~58.41201~~	~~-135.99391~~	10:06	~~2012/01/27~~	~~:~~	~~62~~	~~50~~	~~Bad Cast~~
02	01	58.41262	-135.99522	210 ✓	2012/01/27	19:25	62	50	Good CTD cast, but some bottles failed to close. Will re-cast for water.
03	01	58.41417	-135.99498	211 ✓	2012/01/27	19:47	62	50	Good CTD cast. Again, some bottles failed to close. Sampled anyway.
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NOTE: Cancelled cruise remainder due to engine trouble, bottle-closing issues, + weather.

SEAN Deliverable OC_H Field Log

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Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: MID-WINTER (early) FEB. 2012 Page 1 / 1

CTD #: 5 Data Dump # 0210 Observer(s): Sharman, R. Sharman, S. Schaller, F. Schaller

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	01	58.41279	-135.99518	212 ✓	2012/02/04	18:49	62	50	Bottle 6 failed to close.
02	01	58.41268	-135.99492	213 ✓	2012/02/04	19:15	62	50	Re-cast of Stn. 01 - bottles 5 + 6 failed to close.
03	01	58.41250	-135.99408	214 ✓	2012/02/04	19:45	62	50	2nd re-cast of Stn. 01. Bottle 6 failed to close. Sampled water anyway. TSS from bottles 1, 3, + 5. Salt from bottles 1 + 5. No O_2.
04	24	58.33310	-136.12277	215 ✓	2012/02/04	20:50	140	130	-03b.hex is second upload (-03.hex may not have uploaded).
		.	.		/ /	:			Perfect cast!
05	00	58.32652	-135.87720	216 ✓	2012/02/04	21:49	53	40	Bottles 4 + 5 witnessed to close near surf. Bottle 6 failed to close + failed to trip. Uploaded twice - -05 may not have uploaded. -05b.hex is 2nd upload.
06	00	58.32681	-135.87439	217 ✓	2012/02/04	22:20	53	40	Same as above. Sampled bottles 4 + 5 near surface TSS + surf. salt from bottle #5. 3 uploads (-06.hex and -06b.hex may not have uploaded. -06c.hex did).
		.	.		/ /	:			
07	02	58.48759	-136.05074	218 ✓	2012/02/04	23:24	93	80	N. breeze blew us S. off stn.
08	03	58.57144	-136.06212	219 ✓	2012/02/04	00:23	112	100	Mod. line ∡. N. breeze blew us S. off stn. 2 uploads: -08.hex and -08b.hex.

NOTE: May need to question depths of bottle samples. AFm file will indicate where they tripped, but not necessarily where they closed. We witnessed some near-surf. bottles tripped but not closed.

Second attempt to complete cruise - aborted after one day (poor weather forecast + continued bottle-closing issues).

SEAN Deliverable OC_H Field Log

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Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: Mid-winter (mid-Feb.) 2012 Page 1 / 2

CTD #: 5 Data Dump # 0211 Observer(s): Sharman, Sergeant

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	21	59.04757	-137.05717	219 ✓	2012/02/11	20:20	195	170	Slight line ∡. Tapped bottle 6 w/boat hook to manually close @ surf. (hydrocast).
02	12	59.03350	-137.01877	220 ✓	2012/02/11	21:43	288	260	Lots of line ∡. S. breeze blew us N. off stn. 2 uploads. Saw bottle 6 close @ surf.
03	11	58.97146	-136.91803	221 ✓	2012/02/11	23:04	338	300	Mod. line ∡. Saw bottle 6 close @ surf.
04	10	58.89803	-136.84019	222 ✓	2012/02/12	00:12	361	330	Manually closed (boat hook) bottle 6 @ surf. (it fired but was open).
05	05	58.70393	-136.23067	223 ✓	2012/02/12	18:07	366	340	Extended surf. soak. S. breeze blew us N. off stn. Lots line ∡
06	06	58.75909	-136.34111	224 ✓	2012/02/12	19:24	288	260	Lots line ∡ - S. breeze blew us N. off stn.
07	07	58.81127	-136.47572	225 ✓	2012/02/12	20:22	435	400	Lots line ∡ - S. breeze blew us N. off stn.
08	08	58.86546	-136.59514	226 ✓	2012/02/12	21:25	426	390	Lots of line ∡ - S. breeze blew us N. off stn.
09	09	58.89766	-136.73665	227 ✓	2012/02/12	22:39	377	340	Good cast.
10	20	59.08520	-136.37149	227 ✓	2012/02/13	18:00	179	160	Remarkably clear @ surf.

NOTE: 3:00 PM 2/12 ~ 150 SLL @ Gloomy haulout. Did not go by Jackie Pt.

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Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: Fog Lark Cruise: Mid-winter (mid-Feb.) 2012 Page 2 / 2

CTD #: 5 Data Dump # (0211) Observer(s): Sharman, Sergeant

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
11	19	59.07109	-136.33565	228	2012/02/13	18:42	225	200	Extended bottom soak.
12	18	59.04978	-136.18417	229	2012/02/13	19:30	214	190	
13	17	58.97501	-136.13684	230	2012/02/13	20:17	155	140	Need to re-enter this GPS location on Fog Lark GPS.
14	16	58.89588	-136.09592	231	2012/02/13	20:58	313	280	
15	14	58.79304	-136.10991	232	2012/02/13	21:55	81	70	Mod. line ∡ - S. breeze blew us N. off stn.
16	13	58.73291	-136.11406	233	2012/02/13	22:42	146	130	* Cast 16 is on/off (no data). This is Cast 17. Slt. line ∡, S. breeze blew us N. off stn.
18	04	58.65015	-136.11349	234	2012/02/13	23:32	288	260	Slt. line ∡.
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NOTE:

Oceanographic [illegible]rvey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK **Cruise:** March 2012 (1 dump of 2) **Page** 1 / 1

CTD #: 5 **Data Dump #** 0212 **Observer(s):** Sharman, Reisdorph, N. Ewing

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	12	59.03325	-137.01811	234 ✓	2012 / 03 / 05	18 : 20	288	260	N. breeze blew us S. off stn. Slight line ∡.
02	07	58.81036	-136.47525	235 ✓	2012 / 03 / 05	20 : 00	435	400	Watched Bottles 4+6 close @ surf. - did not sample #4.
03	13	58.73191	-136.11201	236 ✓	2012 / 03 / 05	21 : 17	146	130	
04	04	58.65006	-136.11565	237 ✓	2012 / 03 / 05	22 : 04	288	260	
05	01	58.41021	-135.99380	238 ✓	2012 / 03 / 05	23 : 15	62	50	N. breeze blew us S. off stn.
06	24	58.33226	-136.12093	239 ✓	2012 / 03 / 06	00 : 34	140	120	E. breeze → W. off stn. (+ especially ebb)
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		__.__	__.__		__/__/__	__:__			
		__.__	__.__		__/__/__	__:__			
		__.__	__.__		__/__/__	__:__			

NOTE: SSLs present @ Gloomy ~10:45 Am 3/5. Did not count. Did not go by Jackie Pt.

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Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: March 2012 (2nd dump) Page 1/1

CTD #: 5 Data Dump # 0213 Observer(s): Sharman, Reisdorph

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	16	58.39633	136.09250	240 ✓	2012/03/07	18:24	313	280	
02	20	59.08614	136.37183	241 ✓	2012/03/07	19:43	179	160	
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NOTE: * 2 brackets for boat brush.

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SEAN Deliverable OC_H Field Log

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: APRIL 2012 [redacted] (1 of 2) Page 1 / 1

CTD #: 5 Data Dump # 0214 Observer(s): Sharman, S. Reidorph, Eric Hart, Glordy Ewing

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	24	58.33262	-136.11752	✓241	2012/04/01	15:26	140	130	W-ward drift. Mod. line ∡. Bottle 6 empty - took bucket sample
02	12	59.03290	-137.01709	✓242	2012/04/01	18:30	288	260	S-ward drift. Lots of line ∡. Bottles 4 & 6 manually closed @ surf.
03	07	58.81081	-136.47522	✓243	2012/04/01	20:17	435	400	Tripped Bottle 6 manually @ surf. Mod. line ∡.
04	20	59.08674	-136.37097	✓244	2012/04/01	22:32	179	160	→ *
* 05	16	58.89352	-136.09406	✓245	2012/04/01	23:46	313	280	Slt. line ∡, S-ward drift. ** Forgot to turn off!
07	13	58.73182	-136.11186	✓246	2012/04/02	00:43	146	130	Mod. line ∡. S-ward drift.
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NOTE: Noon → ~110SSLs, Gloomy Knob

* Ignore Cast 05 *

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: April 2012 (2 of 2) Page 1 / 1

CTD #: 5 Data Dump # 0215 Observer(s): Sharman, S. Reisdorph

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	01	58.41206	-135.99448	√247	2012/04/04	14:55	62	50	
02	04	58.65128	-136.11510	√249	2012/04/04	15:56	288	260	
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NOTE:

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SEAN Deliverable OC_H Field Log

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: May 2012 Page 1 / 1

CTD #: 5 Data Dump # 0216 Observer(s): Sharman, Monacci

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 03	24	58.33103	-136.11143	249 ✓	2012/05/09	15:46	140	125	Started soak to E. of stn. (W-ward current drift to stn.).
✓ 04	01	58.41389	-135.99634	250 ✓	2012/05/09	16:53	62	50	
✓ 05	04	58.65250	-136.11465	251 ✓	2012/05/09	18:12	288	260	~~[illegible]~~ line angle, N-ward drift. ~~[illegible]~~ Blooming?!
✓ 06	07	58.81042	-136.47450	252 ✓	2012/05/09	19:31	435	400	
✓ 07	12	59.03325	-137.01828	253 ✓	2012/05/09	21:25	288	260	Very turbid @ surf.
✓ 08	20	59.08588	-136.37029	254 ✓	2012/05/10	00:42	179	160	Very turbid @ surf.
✓ 09	16	58.89586	-136.09360	255 ✓	2012/05/10	02:02	313	280	Blooming?
✓ 10	13	58.73198	-136.11392	256 ✓	2012/05/10	17:24	146	130	Lots of line ×, N-ward drift.
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		___.___	___.___		___/___/___	___:___			

NOTE: Start w/ Cast 03 (CTD not initialized since last cruise).

no SSLs @ Gloomy 5/9 ~2 PM

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SEAN Deliverable OC_H Field Log

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: "June" 2012 Page 1 / 1

CTD #: 5 Data Dump # 0217 Observer(s): Sharman, Reisdorph

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	24	58.33345	-136.11688	256	2012/05/31	17:06	140	130	
02	12	59.03286	-137.01758	257	2012/05/31	20:47	288	260	N-ward drift (S. breeze) off stn. Lots of line ↯ (cast to 280m).
03	07	58.81132	-136.47499	258	2012/05/31	23:00	435	400	NW-ward drift w/SE breeze. Mod. line ↯.
04	20	59.08562	-136.37152	258	2012/06/01	01:18	179	160	Very turbid @ surf.
05	16	58.89587	-136.09401	258	2012/06/01	02:34	313	280	Bloaming @ surf.?
06	13	58.73389	-136.11377	258	2012/06/01	16:45	146	130	Mod. line ↯.
07	04	58.64988	-136.11488	260	2012/06/01	17:37	288	260	SE-ward drift off stn. (NW breeze). Lots of line ↯ - cast to 280m.
~~08~~	~~01~~	~~58.41177~~	~~-135.99559~~	~~261~~	~~2012/06/01~~	~~20:11~~	~~62~~	~~50~~	
10	01	58.41369	-135.99690	262	2012/06/01	21:09	62	50	Cast to 60m. Lots of line ↯ (N. breeze).
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NOTE: no Gloomy SSLs 5/31 ~1530.

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Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: July 2012 Page 1/3

CTD #: 5 Data Dump # 0218 Observer(s): Sharman, Reindorph, Kristen Shake

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 01	24	58.33227	-136.12120	263 ✓	2012/07/15	15:50	140	130	
✓ 02	00	58.32560	-135.87160	264 ✓	2012/07/15	16:34	53	45	Only Bottles 1-5 programmed to sample this sta. (shallow).
✓ 03	01	58.41217	-135.99660	265 ✓	2012/07/15	17:27	62	50	Slt. line 4 (N-ward drift).
✓ 04	02	58.49235	-136.05219	266 ✓	2012/07/15	18:14	93	80	
✓ 05	03	58.57176	-136.06638	267 ✓	2012/07/15	18:51	112	100	
✓ 06	04	58.65067	-136.11562	268 ✓	2012/07/15	19:27	288	260	
✓ 07	05	58.70426	-136.23390	269 ✓	2012/07/15	20:17	366	330	Shallow cast (cast to only 260m). Will re-cast (Cast 08) to 330m.
✓ 08	05	58.70431	-136.23283	270 ✓	2012/07/15	20:55	366	330	Re-cast to depth. Stn. 05. But all bottles failed to close.
✓ 09	05	58.70317	-136.23247	271 ✓	2012/07/15	21:23	366	330	Re-cast of Stn. 05 Bottles failed again to close.
10	05	58.70465	-136.23314	272 ✓	2012/07/15	22:15	366	330	Re-cast. Stn. 05 Bottles failed again to close.

NOTE: * Cast #'s 07-12 were bad + discarded - due to low batteries in CTD. Replaced batteries. Cast #'s 13-28 (& 01-06) all good.

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Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: Fog Fork Cruise: July 2012 Page 2 / 3

CTD #: 5 Data Dump # 0218 Observer(s): Sherman, Rudolph, Shake

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 11	06	58.75915	-136.34032	273	2012/07/15	23:18	288	260	All bottles failed to close. Replaced CTD bottles (& ECO55 bottles)
✓ 12	Test	.	.	/	/ /	:			Looks good. (20-min. soak @ 30m)
✓ 13	05	58.70406	-136.23253	273✓	2012/07/17	16:52	366	330	
✓ 14	06	58.75915	-136.34270	274✓	2012/07/17	17:48	288	260	
✓ 15	07	58.81092	-136.47324	275✓	2012/07/17	18:33	435	400	Cups!
✓ 16	08	58.86478	-136.59238	276✓	2012/07/17	19:27	426	400	
✓ 17	09	58.89815	-136.73640	277✓	2012/07/17	20:18	377	340	Slt. line & S-ward drift
✓ 18	10	58.89900	-136.84030	278✓	2012/07/17	21:02	361	330	
✓ 19	11	58.97205	-136.91698	279✓	2012/07/17	21:52	338	300	Cruise ship just passed. Stn. is very close to ship track (10 mins. ago).
20	12	59.03304	-137.01817	280✓	2012/07/17	22:46	288	260	Very turbid @ surf.

NOTE:

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: Fog Fork Cruise: July 2012 Page 313

CTD #: 5 Data Dump # 0218 Observer(s): Sharman, Rindorph, Shake

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
21	21	59.04812	-137.05762	281	2012/07/17	23:44	195	170	Very turbid @ surf.
22	13	58.73145	-136.11415	281	2012/07/18	18:09	146	130	Big bloom @ surf. Slt. line ↯, S-ward drift.
23	14	58.79095	-136.10938	282	2012/07/18	18:47	81	70	Mod. line ↯, S-ward drift.
24	16	58.89560	-136.09322	283	2012/07/18	19:24	313	280	
25	17	58.97469	136.13693	284	2012/07/18	20:13	~~[illegible]~~ 210	~~[illegible]~~ 190	Slt. line ↯, S-ward drift.
26	18	59.04980	-136.18504	285	2012/07/18	20:54	214	190	Turbid @ surf.
27	19	59.07126	-136.33612	286	2012/07/18	21:39	225	200	Turbid @ surf.
28	20	59.08587	-136.37038	287	2012/07/18	22:12	179	160	Turbid @ surf. Mod. line ↯, S-ward drift.
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		.	.		/ /	:			

NOTE: No SSL @ Gloomy 7/18 9 AM. All SMI SSL on S. tip islets/rsf. (7/18 4 PM).

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FOG LARK Cruise: AUGUST 2012 Page 1/1

CTD #: 5 Data Dump # 0219 Observer(s): Sharman, Etherington, Tahgay Jones

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	24	58.33264	-136.11340	287	2012/08/06	20:53	140	120	Cast to 110m. E-ward drift (flood current) Slt. line ∡.
02	01	58.41291	-135.99623	288	2012/08/06	21:38	62	50	
03	04	58.64999	-136.11427	289	2012/08/06	22:46	288	260	Blooming @ surf. Mod. line ∡.
04	13	58.73237	-136.11201	290	2012/08/06	23:24	146	130	Clear water @ surf.
05	16	58.89556	-136.09261	291	2012/08/07	00:09	313	280	
06	20	59.08595	-136.37146	292	2012/08/07	01:45	179	160	Very turbid @ surf.
07	07	58.81053	-136.47664	292	2012/08/07	19:20	435	400	SW-ward drift (N. breeze) lots of line ∡
08	12	59.03351	-137.01804	293	2012/08/07	21:06	288	260	
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		__.__	__.__		__/__/__	__:__			

NOTE:

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Oceanographic [illegible]vey Field Log
Glacier Bay National Park and Preserve

Vessel: Fog Fark Cruise: September 2012 Page 1 / 1

CTD #: 5 Data Dump # 0220 Observer(s): Sharman, ~~[illegible]~~, Cassie Chase, Aishu Cozby

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓01	04	58.65048	-136.11620	293✓	2012/09/04	17:26	288	260	S wind blew us N off stn. Slt. line ∡
✓02	16	58.89547	-136.09334	294✓	2012/09/04	18:29	313	280	Mod. line ∡, S. wind blew us N. off stn.
✓03	20	59.08539	-136.37042	295✓	2012/09/04	19:31	179	160	Very turbid @ surf. Slt. line ∡ N. breeze blew us S. off stn.
✓04	13	58.73213	-136.11377	296✓	2012/09/04	21:04	146	130	
✓05	01	58.41249	-135.99495	297✓	2012/09/04	23:53	62	50	S. breeze blew us N. off stn.
✓06	24	58.33114	-136.12271	298✓	2012/09/05	00:40	145	110	
✓07	07	58.81134	-136.47560	299✓	2012/09/06	17:24	435	420	New crew for this + Cast 08: Sharman, Leslie Shora, Artemis Bonabea, Barbara Morford. & touched bottom!
✓08	12	59.03328	-137.01849	300✓	2012/09/06	19:07	288	260	
		__.__	__.__		__/__/__	__:__			
		__.__	__.__		__/__/__	__:__			

NOTE:

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SEAN Deliverable OC_H Field Log

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: Fog Lark Cruise: October 2012 Page 1/1

CTD #: 5 Data Dump # 0221 Observer(s): Sharman, S. Doulatabadi, Dana Christofferson, Cody Christofferson

Cast #	Station #	Latitude (°N)	Longitude (°W)	Waypoint	Date GMT (YYYY/MM/DD)	Time GMT (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
01	24	58.33403	-136.11772	300 ✓	2012/10/01	17:58	140	130	E-ward drift (flooding tide)
02	01	58.41357	-135.99504	301 ✓	2012/10/01	18:41	62	50	
03	04	58.65133	-136.11444	302 ✓	2012/10/01	19:33	288	260	
04	13	58.73277	-136.11285	303 ✓	2012/10/01	20:21	146	130	
05	07	58.81194	-136.47668	304 ✓	2012/10/01	21:18	435	400	Drifted S. off stn. - stiff N. breeze Severe line ↯
06	16	58.89601	-136.09406	305 ✓	2012/10/01	23:00	313	280	
07	20	59.08654	-136.37019	306 ✓	2012/10/02	00:08	179	160	Mod. line ↯. NW breeze blew us SE off stn.
08	07	58.81043	-136.47243	307 ✓	2012/10/02	17:46	435	400	Re-cast Stn. 07 (no wind!) Slt. line ↯ (current set us S. of stn.)
09	12	59.03391	-137.02046	308 ✓	2012/10/02	19:20	288	260	
		__.__	__.__		__/__/__	__:__			

NOTE:

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