

Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: Capelin

Cruise: Winter 2024

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CTD #: 8 Data Dump # 0320

Observer(s): C. Murdoch, C. Riggs, Rachel, Caitlin

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 01	02	<u>58.49789</u>	<u>136.05482</u>	399	<u>2024/01/12</u>	<u>20:43</u>	96	85	drifted N 0.5 m
✓ 02	01	<u>58.41220</u>	<u>135.99385</u>	400	<u>2024/01/12</u>	<u>21:09</u>	62	58	
✓ 03	21	<u>59.04867</u>	<u>137.05612</u>	401	<u>2024/01/14</u>	<u>20:55</u>	199	195	
✓ * 05	12	<u>59.03339</u>	<u>137.02017</u>	402	<u>2024/01/14</u>	<u>21:18</u>	281	276	* False cast (?) - (954)
✓ 06	11	<u>58.97185</u>	<u>136.91576</u>	403	<u>2024/01/14</u>	<u>21:52</u>	338	330	
✓ 07	10	<u>58.89911</u>	<u>136.84048</u>	404	<u>2024/01/14</u>	<u>22:16</u>	377	372	
✓ 08	09	<u>58.89791</u>	<u>136.73639</u>	405	<u>2024/01/14</u>	<u>22:42</u>	382	377	
✓ 09	08	<u>58.86562</u>	<u>136.59435</u>	406	<u>2024/01/14</u>	<u>23:11</u>	424	419	
✓ 10	07	<u>58.81134</u>	<u>136.47241</u>	407	<u>2024/01/14</u>	<u>23:49</u>	435*	430	* Fathometer never gave reading
✓ 11	06	<u>58.75951</u>	<u>136.24696</u>	408	<u>2024/01/15</u>	<u>00:23</u>	288	283	
✗ 12	05	<u>58.70441</u>	<u>136.23263</u>	(411)	<u>2024/01/15</u>	<u>00:49</u>	355	350	No WP saved

Notes:

Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: Capelin

Cruise: Winter, 2024

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CTD #: 8 Data Dump # 320

Observer(s): C. Murdoch, C. Riggs, S. Eagan

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 13	18	<u>59.04896</u>	<u>136.18428</u>	411	<u>2024/01/15</u>	<u>20:57</u>	214	209	
✓ 14	17	<u>58.97385</u>	<u>136.13840</u>	412	<u>2024/01/15</u>	<u>21:21</u>	214	207	
⊗ 15	16	<u>58.89609</u>	<u>136.09349</u>	??	<u>2024/01/15</u>	<u>21:47</u>	313	308	No WP saved
✓ 16	14	<u>58.79132</u>	<u>136.10812</u>	413	<u>2024/01/15</u>	<u>22:21</u>	80	76	
✓ 17	13	<u>58.73178</u>	<u>136.11305</u>	414	<u>2024/01/15</u>	<u>22:38</u>	148	141	
✓ 18	04	<u>58.65137</u>	<u>136.11308</u>	415	<u>2024/01/15</u>	<u>23:01</u>	288	283	
✓ 19	03	<u>58.57286</u>	<u>136.06367</u>	416	<u>2024/01/15</u>	<u>23:37</u>	112	107	
✓ 20	00	<u>58.32304</u>	<u>135.86720</u>	417	<u>2024/01/16</u>	<u>19:55</u>	64	59	
✓ 21	24	<u>58.33209</u>	<u>136.12210</u>	418	<u>2024/01/16</u>	<u>20:30</u>	141	136	
End of Survey					<u>1</u>	<u>:</u>			Did not occupy stations 19, 20 due to ice conditions in East Arm

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Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: Capelin

Cruise: March, 2024

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CTD #: 8 Data Dump # 0321

Observer(s): C. Murdoch, A. Gulick, M. Bastian, S. Ulik

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 22	01	<u>58.40963</u>	<u>135.99353</u>	419	<u>2024/03/05</u>	<u>22:35</u>	62	57	Drifted S off station ~1/4 mi
✓ 23	24	<u>58.33218</u>	<u>136.11716</u>	420	<u>2024/03/05</u>	<u>23:11</u>	138	133	
✓ 24	04	<u>58.65055</u>	<u>136.11140</u>	421	<u>2024/03/07</u>	<u>17:21</u>	298	293	
✓ 25	13	<u>58.73264</u>	<u>136.11186</u>	422	<u>2024/03/07</u>	<u>17:52</u>	150	145	
✓ 26	16	<u>58.89592</u>	<u>136.09387</u>	423	<u>2024/03/07</u>	<u>18:34</u>	317	312	
✓ 27	20	<u>59.08571</u>	<u>136.37199</u>	424	<u>2024/03/07</u>	<u>19:58</u>	143	138	
✓ 28	12	<u>59.03365</u>	<u>137.01799</u>	425	<u>2024/03/07</u>	<u>23:30</u>	278	273	
✓ 29	07	<u>58.81101</u>	<u>136.47383</u>	426	<u>2024/03/08</u>	<u>01:20</u>	435	400	
				End of Survey					

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Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: FOGLARK

Cruise: APRIL 2024

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CTD #: 8 Data Dump # 0322

Observer(s): C. Murdoch, A. Golick, D. Sprague, C. Riggs, S. Ulick, Levi

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
30	~~01~~	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	False cast!
✓ 31	01	<u>58.41108</u>	<u>135.99426</u>	427	<u>2024/04/11</u>	<u>15:58</u>	60	55	H ₂ O green
✓ 32	24	<u>58.33575</u>	<u>136.11362</u>	428	<u>2024/04/11</u>	<u>16:17</u>	136	131	
✓ 33	04	<u>58.65142</u>	<u>136.11569</u>	429	<u>2024/04/11</u>	<u>17:23</u>	273	268	
✓ 34	07	<u>58.81147</u>	<u>136.47714</u>	430	<u>2024/04/11</u>	<u>18:21</u>	425	420	bloom
✓ 35	12	<u>59.03416</u>	<u>137.02042</u>	431	<u>2024/04/11</u>	<u>20:03</u>	288	283	bloom; large line angle to south; south of station
✓ 36	16	<u>58.89602</u>	<u>136.09444</u>	432	<u>2024/04/11</u>	<u>22:09</u>	313	308	
✓ 37	20	<u>59.08524</u>	<u>136.37082</u>	433	<u>2024/04/11</u>	<u>23:08</u>	140	135	
✓ 38	13	<u>58.73220</u>	<u>136.11334</u>	434	<u>2024/04/12</u>	<u>00:54</u>	146	141	
									End of survey

Notes:

Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: Fog Lark

Cruise: May 2024

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CTD #: 8 Data Dump # 0323

Observer(s): CMurdoch; AGulick; DStarbard; MSholar; RGuram

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 39	01	<u>58.41546</u>	<u>135.99683</u>	435	<u>2024/05/02</u>	<u>15:58</u>	62	57	
✓ 40	24	<u>58.33295</u>	<u>136.11954</u>	436	<u>2024/05/02</u>	<u>16:37</u>	150	145	
✓ 41	04	<u>58.65080</u>	<u>136.11501</u>	437	<u>2024/05/02</u>	<u>17:57</u>	288	283	Bloom!
✓ 42	07	<u>58.81103</u>	<u>136.47520</u>	438	<u>2024/05/02</u>	<u>19:02</u>	435	430	
✓ 43	12	<u>59.03327</u>	<u>137.01880</u>	439	<u>2024/05/02</u>	<u>20:51</u>	288	283	Bloom - no turbidity
✓ 44	13	<u>58.73160</u>	<u>136.10953</u>	440	<u>2024/05/02</u>	<u>23:15</u>	146	141	
✓ 45	16	<u>58.89529</u>	<u>136.09247</u>	441	<u>2024/05/02</u>	<u>23:54</u>	313	308	
✓ 46	20	<u>59.08548</u>	<u>136.37027</u>	442	<u>2024/05/03</u>	<u>0:51</u>	140	130	Cast near front on north side of inlet - Fresh, turbid H ₂ O. Cast in clear H ₂ O
									End of survey

Notes:

Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: FOGLARK

Cruise: "JUNE" 2024

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CTD #: 8 Data Dump # 0324

Observer(s): C. Murdoch, A. Gulick, G. Mottet

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 47	01	<u>N 58.41187°</u>	<u>W 135.99648°</u>	444	<u>2024/05/30</u>	<u>16:01</u>	62	57	
✓ 48	24	<u>58.33422°</u>	<u>136.11443°</u>	446	<u>2024/05/30</u>	<u>16:41</u>	140	135	drifted west of station Moderate angle
✓ 49	04	<u>58.65361°</u>	<u>136.11780°</u>	447	<u>2024/05/30</u>	<u>17:47</u>	288	283	Calm
✓ 50	07	<u>58.81322°</u>	<u>136.47955°</u>	449	<u>2024/05/30</u>	<u>18:51</u>	435	430	
✓ 51	12	<u>59.03396°</u>	<u>137.02055°</u>	450 Might have been 455 no. 20	<u>2024/05/30</u>	<u>20:08</u>	280	275	drifted North from what Cruise ship near by
✓ 52	13	<u>58.73236°</u>	<u>136.11143°</u>	456	<u>2024/05/30</u>	<u>22:35</u>	146	140	
✓ 53	14	<u>58.89529°</u>	<u>136.09357°</u>	457	<u>2024/05/30</u>	<u>23:15</u>	313	308	Large line
✓ 54	20	<u>59.08511°</u>	<u>136.37083°</u>	458	<u>2024/05/31</u>	<u>00:16</u>	160	150	
									End of survey

Notes:

Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: Foglark

Cruise: Mid Summer

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CTD #: 8 Data Dump # 0325

Observer(s): C. Murdoch, B. G. Lick, G. Muttet, K. G. Lick

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 55	20	<u>59.08610</u>	<u>-136.37059</u>	459	<u>2024/07/17</u>	<u>20:09</u>	135	130	HABS data collection Very heavy rain (4.5") preceding survey
✓ 56	19	<u>59.07203</u>	<u>-136.33604</u>	460	<u>2024/07/17</u>	<u>20:26</u>	225	220	
✓ 57	18	<u>59.04990</u>	<u>-136.18443</u>	461	<u>2024/07/17</u>	<u>20:56</u>	214	209	
✓ 58	17	<u>58.97395</u>	<u>-136.13689</u>	462	<u>2024/07/17</u>	<u>22:33</u>	212	207	Drifted 200 meters South
✓ 59	16	<u>58.89501</u>	<u>-136.09323</u>	463	<u>2024/07/18</u>	<u>01:33</u>	313	308	HABS data collection
✓ 60	14	<u>58.79111</u>	<u>-136.10725</u>	464	<u>2024/07/18</u>	<u>02:10</u>	81	76	
✓ 61	04	<u>58.65068</u>	<u>-136.11523</u>	465	<u>2024/07/18</u>	<u>18:02</u>	288	283	
✓ 62	13	<u>58.73982</u>	<u>-136.11284</u>	466	<u>2024/07/18</u>	<u>18:40</u>	146	140	Green H2O @ surface. HABS collection
✓ 63	05	<u>58.70386</u>	<u>-136.23489</u>	467	<u>2024/07/18</u>	<u>19:09</u>	366	361	
✓ 64	06	<u>58.75985</u>	<u>-136.34244</u>	468	<u>2024/07/18</u>	<u>19:51</u>	288	283	

Notes:

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: Fog/ark

Cruise: Mid - Summer

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CTD #: 8 Data Dump # 0325

Observer(s): C. Murdoch, A. Gulick, G. Mottet, K. Gulick

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 65	07	<u>58.81022</u>	<u>136.47260</u>	469	<u>2024/07/18</u>	<u>20:24</u>	435	430	
✓ 66	08	<u>58.86465</u>	<u>136.59251</u>	470	<u>2024/07/18</u>	<u>21:08</u>	426	421	
✓ 67	09	<u>58.89732</u>	<u>136.73531</u>	471	<u>2024/07/18</u>	<u>21:48</u>	377	372	Calm
✓ 68	10	<u>58.89819</u>	<u>136.83966</u>	472	<u>2024/07/18</u>	<u>22:25</u>	361	355	
✓ 69	11	<u>58.97211</u>	<u>136.91760</u>	473	<u>2024/07/18</u>	<u>23:02</u>	338	333	Calm
✓ 70	12	<u>59.03413</u>	<u>137.01978</u>	474	<u>2024/07/18</u>	<u>23:39</u>	288	280	Hit bottom?
✓ 71	21	<u>59.04873</u>	<u>137.05727</u>	475	<u>2024/07/19</u>	<u>00:18</u>	195	180	Drifted East off station
✓ 72	03	<u>58.56984</u>	<u>136.06400</u>	476	<u>2024/07/19</u>	<u>20:38</u>	112	107	Large line angle Station recast (cast 77)
✓ 73	02	<u>58.49094</u>	<u>136.05704</u>	477	<u>2024/07/19</u>	<u>21:06</u>	93	88	Mod line angle
✓ 74	01	<u>58.41145</u>	<u>135.99443</u>	478	<u>2024/07/19</u>	<u>21:31</u>	62	57	

Notes: Heavy rain (atmospheric river) preceded this survey. Very wet day 1, but dried out day 2.

Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: Foglark

Cruise: Mid-Summer

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CTD #: 8 Data Dump # 0325

Observer(s): C. Murdoch, F. Golick, G. Mottet, K. Golick

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Notes:

Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: Foglar

Cruise: Aug 2024

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CTD #: 8 Data Dump # 0326

Observer(s): AGulick, GMottet, KWencek, DBuell

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
1.78	~~X~~ 01	<u>58.40431</u>	<u>135.99104</u>	481	<u>2024/08/06</u>	<u>15:43</u>	62	57	
1.79	~~X~~ 24	<u>58.33364</u>	<u>136.12195</u>	482	<u>2024/08/06</u>	<u>16:07</u>	150	145	
1.80	~~X~~ 04	<u>58.65052</u>	<u>136.11716</u>	483	<u>2024/08/06</u>	<u>17:21</u>	288	283	
1.81	~~8~~ X 07	<u>58.81098</u>	<u>136.47330</u>	484	<u>2024/08/06</u>	<u>18:33</u>	435	430	
1.82	~~8~~ X 12	<u>59.03415</u>	<u>137.01843</u>	485	<u>2024/08/06</u>	<u>20:11</u>	288	283	
1.83	~~8~~ X 13	<u>58.73313</u>	<u>136.11084</u>	~~488~~	<u>2024/08/06</u>	<u>22:14</u>	146	141	
1.84	~~8~~ X 16	<u>58.89614</u>	<u>136.09476</u>	489	<u>2024/08/06</u>	<u>22:52</u>	313	308	Hit bottom. Everything functioning properly.
85.	~~X~~ 20	<u>59.08517</u>	<u>136.37042</u>	490	<u>2024/08/06</u>	<u>23:57</u>	140	135	Drifted while sampling. ~150 yds.
									End of survey

Notes:

Oceanographic Survey Field Log
Glacier Bay National Park and Preserve

Vessel: FoglarK

Cruise: September 2024

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CTD #: 8 Data Dump # 0327

Observer(s): C. Murdoch, G. Mottet, H. Landers, A. Baskitt ^{W. Ginsberg}

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
✓ 86	01	<u>58.40997</u>	<u>.135.99377</u>	491	<u>2024/09/09</u>	<u>16:25</u>	<u>62m</u>	<u>55</u>	
✓ 87	24	<u>58.33380</u>	<u>.136.11589</u>	492	<u>2024/09/09</u>	<u>16:56</u>	<u>135</u>	<u>140</u>	
✓ 88	04	<u>58.65173</u>	<u>.136.11627</u>	493	<u>2024/09/09</u>	<u>18:25</u>	<u>288</u>	<u>285</u>	
✓ 89	07	<u>58.81055</u>	<u>.136.47409</u>	494	<u>2024/09/09</u>	<u>19:23</u>	<u>435</u>	<u>430</u>	large line angle
✓ 90	12	<u>59.03328</u>	<u>.137.01892</u>	495	<u>2024/09/09</u>	<u>20:44</u>	<u>288</u>	<u>280</u>	Hit bottom?
✓ 91	13	<u>58.73265</u>	<u>.136.11505</u>	497	<u>2024/09/09</u>	<u>22:38</u>	<u>146</u>	<u>140</u>	
✓ 92	16	<u>58.89477</u>	<u>.136.09607</u>	498	<u>2024/09/09</u>	<u>23:16</u>	<u>313</u>	<u>308</u>	
✓ 93	20	<u>59.08578</u>	<u>.136.37129</u>	499	<u>2024/09/10</u>	<u>00:14</u>	<u>139</u>	<u>134</u>	
									End of survey

Notes:

Oceanographic Survey Field Log

Glacier Bay National Park and Preserve

Vessel: Foglark

Cruise: October 2024

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CTD #: 8 Data Dump # 0328/0329 Observer(s): C. Murdoch; R. Gulick; H. Hoffbauer

Cast #	Station	Latitude (°N)	Longitude (°W)	Waypt.	GMT Date (YYYY/MM/DD)	GMT Time (HH:MM)	Fathometer Depth (m)	Target Depth (m)	Comments
328 10 94	04	58.64964	136.11075	500	2024/10/08	16:37	288	283	large line angle N WIND REJECT - TOO SHALLOW
10 95	07	58.81136	136.47551	501	2024/10/08	18:01	435	430	long line angle N WIND
10 96	12	59.03350	137.02017	502	2024/10/08	19:41	288	283	Calm
* 98	13	58.73041	136.11095	503	2024/10/08	21:49	146	141	* Cast #97 false cast
99	16	58.89493	136.09203	504	2024/10/08	22:37	313	308	Calm-
0329 100 01	20	59.08602	136.37190	505	2024/10/08	23:35	120	115	Calm
101 ✓ 02	MOORING	58.66809	136.15723	506	2024/10/09	01:27	320	300	long line angle ~800m W of MOORING
102 ✓ 03	01	58.41331	135.99773	507	2024/10/09	15:37	62	57	
103 ✓ 04	24	58.33384	136.11821	508	2024/10/09	16:10	140	135	
104 05	04	58.64823	136.11201	509	2024/10/09	20:24	288	283	Recast due to very shallow depth acquisition during cast 94.

Notes:

End of survey YEAR!