OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: C. Dick, H Rieden L. Etherington L J de La Bruere Logbook Page: 1

Cast Name: 01 00 ~~79~~ 80 00 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 1 0 8 (Y Y Y Y M M D D)	Time CTD on: 14:55:42
Lat: (decimal degrees) 58.19.602 58.32670	Lon: (decimal degrees) 135.52.507 135.87512	Time GPS position: 14:54
Depth: (m) 53m	CTD dropped to (m): 40	Station# 00 2 / WP# 092
Comments:		Location: Icy Strait
Tide High Height: 449	Low height: 0.37	Time since high: +366 / Time since low: -43
Sampling: Oceanography Sonic Bottom Dive Other :		

Cast Name: 01 00 ~~79~~ 80 01 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 1 0 8 (Y Y Y Y M M D D)	Time CTD on: 15:58
Lat: (decimal degrees) 58.24.753 58.41355	Lon: (decimal degrees) 135.59.717 135.99528	Time GPS position: 15:57
Depth: (m) 60	CTD dropped to (m): 50	Station# 0 0 1 / WP# 093
Comments:		Location: Mouth of Glacier Bay
Tide High Height: 3.48	Low height: 0.37	Time since high: -361 / Time since low: +21
Sampling: Oceanography Sonic Bottom Dive Other :		

Cast Name: 01 00 ~~79~~ 80 02 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 1 0 8 (Y Y Y Y M M D D)	Time CTD on: 16:43
Lat: (decimal degrees) 58.29.407 58.49012	Lon: (decimal degrees) 136.03.101 136.05168	Time GPS position: 16:40
Depth: (m) 88	CTD dropped to (m): 80	Station# 0 0 2 / WP# 094
Comments:		Location: Sitakaday
Tide High Height: 3.48	Low height: 0.37	Time since high: -317 / Time since low: +65
Sampling: Oceanography Sonic Bottom Dive Other :		

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: C. Dick, H. Rieden, L. Etherington, J. de La Bruere Logbook Page: 2

Cast Name: 01 00 ~~79~~ 80 03 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 1 0 8 (Y Y Y Y M M D D)	Time CTD on: ~17:25
Lat: (decimal degrees) 58.34308 58.57180	Lon: (decimal degrees) 136.03906 136.06510	Time GPS position: :
Depth: (m) 114	CTD dropped to (m): 100	Station# 003 WP# 095
Comments: 3.9m 0.40m		Location: SE of Willoughby
Tide High Height: ~~3.48~~ Low height: ~~0.37~~	Time since high: ~~-275~~ -288	Time since low: ~~+107~~ +83
Sampling: Oceanography Sonic Bottom Dive Other :		

Cast Name: 01 00 ~~79~~ 80 04 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 1 0 8 (Y Y Y Y M M D D)	Time CTD on: 18:12
Lat: (decimal degrees) 58.39059 58.65098	Lon: (decimal degrees) 136.06931 136.11552	Time GPS position: 18:10
Depth: (m) 295	CTD dropped to (m): 280	Station# 004 WP# 096
Comments:		Location: N. of Drake I. & N. of Marble I.
Tide High Height: 3.9m Low height: .4m	Time since high: -241	Time since low: +130
Sampling: Oceanography Sonic Bottom Dive Other :		

Cast Name: 01 00 ~~79~~ 80 05 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 1 0 8 (Y Y Y Y M M D D)	Time CTD on: 19:01
Lat: (decimal degrees) 58.43957 58.73262	Lon: (decimal degrees) 136.06812 136.11353	Time GPS position: 19:00
Depth: (m) 146	CTD dropped to (m): 130	Station# 013 WP# 097
Comments:		Location: SE of Tlingit Pt & NW of Sturgess
Tide High Height: 4.06 Low height: 0.40	Time since high: -197	Time since low: +176
Sampling: Oceanography Sonic Bottom Dive Other :		

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: C. Tuck, H. Rieden, L. Etherington, J. de La Bruere Logbook Page: 3

Cast Name: C100 ~~#3~~ 06 (CTD id / Dump # / Cast #)

Date: 20020109 (Y Y Y Y M M D D)

Time CTD on: 09:24

Time GPS position: 09:23

Lat: (decimal degrees) 58.47495 — 58.79158

Lon: (decimal degrees) 136.06512 — 136.10853

Depth: (m) 84

CTD dropped to (m): 70

Station# 014 **WP#** 098

Comments:

Location: Muir Sill

Tide High Height: 5.16m **Low height:** 1.36m **Time since high:** −44 **Time since low:** 323

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C100 ~~#4~~ 07 (CTD id / Dump # / Cast #)

Date: 20020109 (Y Y Y Y M M D D)

Time CTD on: 10:25

Time GPS position: 10:23

Lat: (decimal degrees) 58.53746 — 58.89576

Lon: (decimal degrees) 136.05598 — 136.0983

Depth: (m) 316

CTD dropped to (m): 300

Station# 016 **WP#** 099

Comments:

Location: E. of Hunter Cove

Tide High Height: 5.16m **Low height:** 1.36m **Time since high:** +17 **Time since low:** +384

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C100 ~~#5~~ 08 (CTD id / Dump # / Cast #)

Date: 20020109 (Y Y Y Y M M D D)

Time CTD on: 11:25

Time GPS position: 11:23

Lat: (decimal degrees) 58.58496 — 58.97493

Lon: (decimal degrees) 136.08203 — 136.1624 — 136.72

Depth: (m) 203

CTD dropped to (m): 190

Station# 017 **WP#** 100

Comments:

Location: E. of Westdahl Point

Tide High Height: 5.16m **Low height:** [illegible] m **Time since high:** [illegible] +77 **Time since low:** 330

Sampling: (Oceanography) Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: C. Dick, H Rieden, L. Etherington, L. delaBruere Logbook Page: 4

Cast Name: C 1 0 0 ~~79~~ 80 0 9 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 1 0 9 (Y Y Y Y M M D D)

Time CTD on: 12:21

Lat: (decimal degrees) 59.03.000 → 59.05

Lon: (decimal degrees) 136.11.110 → 136.1851 6

Time GPS position: 12:19

Depth: (m) 216

CTD dropped to (m): 200

Station# 018 **WP#** 101

Comments:

Location: S of Riggs, NW of McBride

Tide High Height: 5.16m **Low height:** .06m **Time since high:** +133 **Time since low:** -274

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C 1 0 0 ~~79~~ 80 1 0 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 ~~1~~ 10 0 9 (Y Y Y Y M M D D)

Time CTD on: ~13:17

Lat: (decimal degrees) 59.04299 → 59.07165

Lon: (decimal degrees) 136.20213 → 136.33688

Time GPS position: :

Depth: (m) 231

CTD dropped to (m): 220

Station# 019 **WP#** 102

Comments:

Muir Inlet

Tide High Height: 5.16m **Low height:** 0.0km **Time since high:** +189 **Time since low:** -228

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C 1 0 0 ~~79~~ 80 1 1 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 1 0 9 (Y Y Y Y M M D D)

Time CTD on: 13:41

Lat: (decimal degrees) 59.05189 → 59.08598

Lon: (decimal degrees) 136.22252 → 136.37086

Time GPS position: 13:39

Depth: (m) 183

CTD dropped to (m): 170

Station# 020 **WP#** 103

Comments:

Location: Head of Muir Inlet

Tide High Height: 5.16m **Low height:** .06m **Time since high:** +213 **Time since low:** -204

Sampling: (Oceanography) Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: L. Etherington C. Dick H. Rieden Ld de la Bruere Logbook Page: 5

Cast Name:	Date:	Time CTD on:
01008100 (CTD id / Dump # / Cast #)	20020110 (Y Y Y Y M M D D)	9:44
Lat: (decimal degrees) 58.45.550 58.75916	Lon: (decimal degrees) 136.21.105 136.35175	Time GPS position: 9:42

Depth: (m) 273 | CTD dropped to (m): 260 | Station# 06 | WP# 104

Comments:

Location: E of Hugh Miller Inlet

Tide High Height: 5.28m Low height: 1.36m | Time since high: -80 | Time since low: +28

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
01008101 (CTD id / Dump # / Cast #)	20020110 (Y Y Y Y M M D D)	10:45
Lat: (decimal degrees) 58.48.704 58.81173	Lon: (decimal degrees) 136.28.399 136.47332	Time GPS position: 10:43

Depth: (m) 435 | CTD dropped to (m): 300 | Station# 07 | WP# 105

Comments:

Location: N of Blue Mouse W of Tidal Inlet

Tide High Height: 528m Low height: 1.36m | Time since high: -17 | Time since low: +345

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
01008102 (CTD id / Dump # / Cast #)	20020110 (Y Y Y Y M M D D)	11:37
Lat: (decimal degrees) 58.51.899 58.86498	Lon: (decimal degrees) 136.35.602 136.59337	Time GPS position: 11:36

Depth: (m) 426 | CTD dropped to (m): 300m | Station# 08 | WP# 106

Comments: very windy; skipping station 9, 10, 11, 12, 21.

Location: S. of Rendu Inlet

Tide High Height: 528m Low height: -.23m | Time since high: +35min | Time since low: -377

Sampling: Oceanography Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: H. Rieden L. Etherington C. Dick Ldela Bruere Logbook Page: 6

Cast Name:	Date:	Time CTD on:
C100~~80~~81 03 (CTD id / Dump # / Cast #)	20020110 (Y Y Y Y M M D D)	14:09
Lat: (decimal degrees) 58.42244 58.70407	Lon: (decimal degrees) 136.14007 136.23345	Time GPS position: :

Depth: (m) ~366 | CTD dropped to (m): 300 | Station# 05 | WP# 107

Comments:

Location: Between N Drake & SW Tlingit Pt

Tide High Height: ~~5.28~~ 5.13m Low height: ~~-0.23~~ -0.23 | Time since high: ~~178~~ 191 | Time since low: ~~[illegible]~~ -224

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C100~~80~~81 04 (CTD id / Dump # / Cast #)	20020110 (Y Y Y Y M M D D)	~~13~~ 15:09
Lat: (decimal degrees) 58.39463 58.65772	Lon: (decimal degrees) 136.21927 136.36545	~~13~~ 15:05

Depth: (m) 154 | CTD dropped to (m): 140 | Station# 022 | WP# 108

Comments:

Location: Entrance to Geikie

Tide High Height: 5.13m Low height: -.23m | Time since high: +251 | Time since low: -164

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C100~~80~~81 05 (CTD id / Dump # / Cast #)	20020110 (Y Y Y Y M M D D)	16:10
Lat: (decimal degrees) 58.35886 58.59810	Lon: (decimal degrees) 136.30398 136.50663	Time GPS position: 16:07

Depth: (m) 60 | CTD dropped to (m): 50 | Station# 023 | WP# 109

Comments:

Location: Head of Geikie Inlet

Tide High Height: 5.24m 5.13 Low height: -.23 | Time since high: ~~-103~~ 312 | Time since low: ~~312~~ -103

Sampling: Oceanography Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: L. J. de la Bruere, L. Etherington, H. Rieden, C. Dick Logbook Page: 7

Cast Name:	Date:	Time CTD on:
C100 81 06 (CTD id / Dump # / Cast #)	20020111 (Y Y Y Y M M D D)	11:03
Lat: (decimal degrees) 58.44299	Lon: (decimal degrees) 136.03919	Time GPS position: 11:00
58.57165	136.06532	

Depth: (m) 112 m

CTD dropped to (m): 100 m

Station# 003 WP# 110

Comments:

Location: SE of Willoughby Island.

Tide High Height: 5.24 m Low height: 1.28 m Time since high: -45 Time since low: 355

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C100 81 07 (CTD id / Dump # / Cast #)	20020111 (Y Y Y Y M M)	11:57
Lat: (decimal degrees) 58.29418	Lon: (decimal degrees) 136.03172	Time GPS position: 11:55
58.49030	136.05287	

Depth: (m) 94

CTD dropped to (m): 80

Station# 002 WP# 111

Comments:

Location: Sitakaday

Tide High Height: 4.81 m Low height: -.47 Time since high: +22 Time since low: -377

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C100 81 08 (CTD id / Dump # / Cast #)	20020111 (Y Y Y Y M M D D)	12:43
Lat: (decimal degrees) 58.24726	Lon: (decimal degrees) 135.59751	Time GPS position: 12:40
58.41210	135.99585	

Depth: (m) 65

CTD dropped to (m): 60

Station# 001 WP# 112

Comments:

Location: Mouth of Glacier Bay

Tide High Height: 4.81 m Low height: -.47 Time since high: +68 Time since low: -391

Sampling: Oceanography Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: L.J. de La Bruere, C. Dick, H. Rieden, L. Etherington Logbook Page: 8

Cast Name: C 1 0 0 ~~80~~ 81 0 9 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 1 1 1 (Y Y Y Y M M D D)	Time CTD on: 1 3 : ~~04~~ 40
Lat: (decimal degrees) 5 8 . 1 9 . 6 0 2 — 58.32670	Lon: (decimal degrees) 1 3 5 . 5 2 . 5 2 0 — 135.87533	Time GPS position: 1 3 : ~~03~~ 39
Depth: (m) 57.7	CTD dropped to (m): 50	Station# 0 0 0 — WP# 1 1 3
Comments: V. Main 12.2		Location: Icy Strait

Tide High Height: 4.81 Low height: -0.47 Time since high: +125 Time since low: -274

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C (CTD id / Dump # / Cast #)	Date: (Y Y Y Y M M D D)	Time CTD on: :
Lat: (decimal degrees) .	Lon: (decimal degrees) .	Time GPS position: :
Depth: (m)	CTD dropped to (m):	Station# — WP#
Comments:		Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C (CTD id / Dump # / Cast #)	Date: (Y Y Y Y M M D D)	Time CTD on: :
Lat: (decimal degrees) .	Lon: (decimal degrees) .	Time GPS position: :
Depth: (m)	CTD dropped to (m):	Station# — WP#
Comments:		Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: H. Rieden, L. Etherington, J. de la Bruere, C. Dick Logbook Page: 1

Cast Name:	Date:	Time CTD on:
C 1 0 0 8 2 0 ~~1~~ 0 (CTD id / Dump # / Cast #)	2 0 0 2 0 3 0 6 (Y Y Y Y M M D D)	13:07
Lat: (decimal degrees) 58.19606 58.32676	Lon: (decimal degrees) 135.52493 135.87488	Time GPS position: 13:05

Depth: (m) 55m | CTD dropped to (m): 50m | Station# 00 | WP# 001

Comments:

Location: Icy Strait

Tide High Height: 4.04m Low height: 1.37m | Time since high: 404 | Time since low: -13

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C 1 0 0 8 2 0 ~~2~~ 1 (CTD id / Dump # / Cast #)	2 0 0 2 0 3 0 6 (Y Y Y Y M M D D)	14:20
Lat: (decimal degrees) 58.24754 58.41256	Lon: (decimal degrees) 135.59692 135.99486	Time GPS position: 14:21

Depth: (m) 62m | CTD dropped to (m): 60m | Station# 001 | WP# 002

Comments:

Location: Mouth of Glacier Bay

Tide High Height: 3.0m Low height: 1.37m | Time since high: -340 | Time since low: +70

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C 1 0 0 8 2 0 ~~3~~ 2 (CTD id / Dump # / Cast #)	2 0 0 2 0 3 0 6 (Y Y Y Y M M D D)	15:23
Lat: (decimal degrees) 58.29412 58.4902	Lon: (decimal degrees) 136.03016 136.05026	Time GPS position: :

Depth: (m) 88 | CTD dropped to (m): 80 | Station# 00~~3~~ 2 | WP# 003

Comments: Didn't continue on to Stn 03 or 04 due to Weather!

Location: Sitakaday

Tide High Height: 3.00 Low height: 0.58 | Time since high: -274 | Time since low: +123

Sampling: Oceanography Sonic Bottom Dive Other :

V main 12.2

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name:_____ Logbook Page: _____

Cast Name: C [ ] [ ] [ ] [ ] [ ] [ ]
CTD id Dump # Cast #

Date: [ ][ ][ ][ ][ ][ ][ ][ ]
Y Y Y Y M M D D

Time CTD on: [ ][ ] : [ ][ ]

Lat: (decimal degrees) [ ][ ][ ] . [ ][ ][ ][ ][ ]

Lon: (decimal degrees) [ ][ ][ ][ ] . [ ][ ][ ][ ][ ]

Time GPS position: [ ][ ] : [ ][ ]

Depth: (m)

CTD dropped to (m):

Station# [ ][ ][ ] WP# [ ][ ][ ]

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C [ ] [ ] [ ] [ ] [ ] [ ]
CTD id Dump # Cast #

Date: [ ][ ][ ][ ][ ][ ][ ][ ]
Y Y Y Y M M D D

Time CTD on: [ ][ ] : [ ][ ]

Lat: (decimal degrees) [ ][ ][ ] . [ ][ ][ ][ ][ ]

Lon: (decimal degrees) [ ][ ][ ][ ] . [ ][ ][ ][ ][ ]

Time GPS position: [ ][ ] : [ ][ ]

Depth: (m)

CTD dropped to (m):

Station# [ ][ ][ ] WP# [ ][ ][ ]

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C [ ] [ ] [ ] [ ] [ ] [ ]
CTD id Dump # Cast #

Date: [ ][ ][ ][ ][ ][ ][ ][ ]
Y Y Y Y M M D D

Time CTD on: [ ][ ] : [ ][ ]

Lat: (decimal degrees) [ ][ ][ ] . [ ][ ][ ][ ][ ]

Lon: (decimal degrees) [ ][ ][ ][ ] . [ ][ ][ ][ ][ ]

Time GPS pos: [ ][ ] : [ ][ ]

Depth: (m)

CTD dropped to (m):

Station# WP#

CTD 1

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HAC, LJD, JLB

Logbook Page: 1

Cast Name: 01 0083 01 0 (CTD id / Dump # / Cast #)	Date: 2002 03 20 (Y Y Y Y M M D D)	Time CTD on: 14:15
Lat: (decimal degrees) 59.0288 (59.01728)	Lon: (decimal degrees) -136.1598 (-136.09588)	Time GPS position: 14:15
Depth: (m) 227	CTD dropped to (m): 210	Station# 018 / WP# 004
Comments: Couldn't make it stopped @ ice sta. #18 end time 14:23		Location: S. of Briggs / W. of McBride
Tide High Height: 3.72	Low height: 0.54	Time since high: -202 / Time since low: 161
Sampling: Oceanography Sonic Bottom Dive Other:		

Cast Name: 01 0083 02 1 (CTD id / Dump # / Cast #)	Date: 2002 03 20 (Y Y Y Y M M D D)	Time CTD on: 14:54
Lat: (decimal degrees) 58.97496 (58.58498)	Lon: (decimal degrees) -136.13532 (136.08119)	Time GPS position: 14:54
Depth: (m) 180	CTD dropped to (m): 170	Station# 017 / WP# 008
Comments: end time 15:02		Location: E. of Westdahl Pt.
Tide High Height: 3.72	Low height: 0.54	Time since high: -163 / Time since low: 200
Sampling: Oceanography Sonic Bottom Dive Other:		

Cast Name: 01 0083 02 2 (CTD id / Dump # / Cast #)	Date: 2002 03 20 (Y Y Y Y M M D D)	Time CTD on: 16:07
Lat: (decimal degrees) 58.8958 (58.53748)	Lon: (decimal degrees) -136.09326 (136.05596)	Time GPS position: 16:07
Depth: (m) 312	CTD dropped to (m): 300	Station# 016 / WP# 009
Comments: end time: 16:19		Location: E. of Hunter

Tide high Height: 3.72 Low Height: 0.54 Time since high: -43 Time since low: 273

CTD 1

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HAC, LJD, JLB

Logbook Page: 2

Cast Name:	Date:	Time CTD on:
01 008 30 43 (CTD id / Dump # / Cast #)	2 0 0 2 0 3 2 0 (Y Y Y Y M M D D)	16:58
Lat: (decimal degrees) 58.815 (58.48.900)	Lon: (decimal degrees) -136.10505 (136.06.303)	Time GPS position: 16:58

Depth: (m) 117

CTD dropped to (m): 105

Station# 015 WP# 010

Comments: end time: 17:03:43

Location: W. of Muir Pt.

Tide High Height: 3.72m Low height: 0.54m Time since high: -39 Time since low: 324

Sampling: Oceanography Sonic Bottom Dive Other:

Cast Name:	Date:	Time CTD on:
01 008 30 54 (CTD id / Dump # / Cast #)	2 0 0 2 0 3 2 1 (Y Y Y Y M M D D)	09:40
Lat: (decimal degrees) 58.81168 (58 48 701)	Lon: (decimal degrees) -136.47346 (136 28 408)	Time GPS position: 09:40

Depth: (m) 437

CTD dropped to (m): 300 m

Station# 007 WP# 014

Comments: CTD ON 94030
CTD off 95322

Location: Btwn Blue Mouse + Tidel

Tide High Height: 4.40m Low height: 0.74m Time since high: 253 Time since low: 177

Sampling: Oceanography Sonic Bottom Dive Other:

Cast Name:	Date:	Time CTD on:
01 008 30 65 (CTD id / Dump # / Cast #)	2 0 0 2 0 3 2 2 (Y Y Y Y M M D D)	11:56
Lat: (decimal degrees) 58.86517 (58.51910)	Lon: (decimal degrees) -136.59333 (136.35600)	Time GPS position: 11:56

Depth: (m) 423

CTD dropped to (m): 300

Station# 008 WP# 015

Comments: end time: 12:06

Location: S of [illegible] Inlet

Tide High Height: 4.40m Low Height 0.74m Time since high: 389 Time since low: -41

CTD 2

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HAC, LJD, JLB

Logbook Page: _____

Cast Name: 0200834 0 (CTD id / Dump # / Cast #)	Date: 20020320 (Y Y Y Y M M D D)	Time CTD on: 14:04
Lat: (decimal degrees) 59.0288 (59.01728)	Lon: (decimal degrees) -136.1598 (136.09588)	Time GPS position: 14:04
Depth: (m) 227	CTD dropped to (m): 210	Station# 018 / WP# 004
Comments: stopped; ice @ sta. 18 end time. 14 11:43		Location: S of Brass / W. of McBride
Tide High Height: 3.72m	Low height: 0.54m	Time since high: -213 / Time since low: 150
Sampling: Oceanography Sonic Bottom Dive Other:		

Cast Name: 0200840 2 1 (CTD id / Dump # / Cast #)	Date: 20020320 (Y Y Y Y M M D D)	Time CTD on: 15:04
Lat: (decimal degrees) 58.97496 (58.58498)	Lon: (decimal degrees) -136.13532 (136.08119)	Time GPS position: 15:04
Depth: (m) 180	CTD dropped to (m): 170	Station# 017 / WP# 008
Comments: end time: 15 11 46		Location: E of Westdahl Pt.
Tide High Height: 3.72m	Low height: 0.54m	Time since high: -153 / Time since low: 210
Sampling: Oceanography Sonic Bottom Dive Other:		

Cast Name: 0200840 3 2 (CTD id / Dump # / Cast #)	Date: 20020320 (Y Y Y Y M M D D)	Time CTD on: 15:52
Lat: (decimal degrees) 58.8958 (58.53748)	Lon: (decimal degrees) -136.09327 (136.05596)	Time GPS position: 15:52
Depth: (m) 312	CTD dropped to (m): 300	Station# 016 / WP# 009
Comments: end time. 16 05		Location: E of Munter
Tide High Height: 3.72m	Low height: 0.54m	Time since high: -105 / Time since low: 258
Sampling: Oceanography Sonic Bottom Dive Other:		

CTD 2

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HAC, LJD, JLB Logbook Page: 2

Cast Name: C2 0 0 8 4 0 4 3 (CTD id / Dump # / Cast #)
Date: 2020 3 20 (YYYY MM DD)
Time CTD on: 17:04
Lat: (decimal degrees) 58.815 (58 48.900)
Lon: (decimal degrees) -136.10505 (136 06.303)
Time GPS position: 17:04
Depth: (m) 117
CTD dropped to (m): 100
Station# 015 **WP#** 010
Comments: end time: 17:09:41
Location: W. of Muir Pt.
Tide High Height: 3.72m **Low height:** 0.54m **Time since high:** -33 **Time since low:** 330
Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C2 0 0 8 4 0 5 4 (CTD id / Dump # / Cast #)
Date: 2020 3 21 (YYYY MM DD)
Time CTD on: 09:29
Lat: (decimal degrees) 58.81167 (58 48 700)
Lon: (decimal degrees) -136.47355 (136 28 413)
Time GPS position: 09:20
Depth: (m) 437
CTD dropped to (m): 300m
Station# 007 **WP#** 013
Comments: end time: 09:32
Location: Btwn Blue Mouse + Tidal
Tide High Height: 4.40m **Low height:** 0.74m **Time since high:** 233 **Time since low:** 257
Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C2 0 0 8 4 0 6 5 (CTD id / Dump # / Cast #)
Date: 2020 3 22 (YYYY MM DD)
Time CTD on: 12:07
Lat: (decimal degrees) 58.81617 (58 49.010)
Lon: (decimal degrees) -136.59333 (136 35600)
Time GPS position: 12:07
Depth: (m) 423
CTD dropped to (m): 300
Station# 008 **WP#** 015
Comments: end time: 12:18
Location: S. of Rendu Inlet
Tide High height: 4.20m Low Height: 0.78m Time since High: 334 Time since Low: 112

CTD 1

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: LJD, MAC, VAK

Logbook Page: 3

Cast Name: 01 0083076 (CTD id / Dump # / Cast #)	Date: 20020322 (Y Y Y Y M M D D)	Time CTD on: 14:20
Lat: (decimal degrees) 58.70423 (58.42.254)	Lon: (decimal degrees) -136.23337 (136.14.002)	Time GPS position: 14:20

Depth: (m) 337

CTD dropped to (m): 300

Station# 005 WP# 016

Comments: end time: 14:31

Location: Between N. Drake & SW of Tlingit Pt.

Tide High Height: 3.41m Low height: 0.78m Time since high: -366 Time since low: 21

Sampling: Oceanography Sonic Bottom Dive Other:

Cast Name: 01 0083087 (CTD id / Dump # / Cast #)	Date: 20020322 (Y Y Y Y M M D D)	Time CTD on: 15:11
Lat: (decimal degrees) 58.65093 (58.39056)	Lon: (decimal degrees) -136.11488 (136.06893)	Time GPS position: 15:11

Depth: (m) 288

CTD dropped to (m): 260

Station# 004 WP# 017

Comments: end time, 15:21

Location: N. of Drake I. & N. of Marble I.

Tide High Height: 3.41m Low height: 0.78m Time since high: -315 Time since low: 72

Sampling: Oceanography Sonic Bottom Dive Other:

Cast Name: 0 (CTD id / Dump # / Cast #)	Date: (Y Y Y Y M M D D)	Time CTD on: :
Lat: (decimal degrees) .	Lon: (decimal degrees) .	Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name:_____ Logbook Page: _____

Cast Name: C (CTD id / Dump # / Cast #)

Date: Y Y Y Y M M D D

Time CTD on: :

Time GPS position: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Depth: (m)

CTD dropped to (m):

Station# | WP#

Location:

Comments:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C (CTD id / Dump # / Cast #)

Date: Y Y Y Y M M D D

Time CTD on: :

Time GPS position: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Depth: (m)

CTD dropped to (m):

Station# | WP#

Location:

Comments:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C (CTD id / Dump # / Cast #)

Date: Y Y Y Y M M D D

Time CTD on: :

Time GPS position: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Depth: (m)

CTD dropped to (m):

Station# | WP#

Location:

Comments:

CTD 2

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: LJD, HAC, KHK Logbook Page: 3

Cast Name: C2008407 (CTD id: C2 | Dump #: 008 | Cast #: 07 6)

Date: 2002032 2 (Y Y Y Y M M D D)

Time CTD on: 14:07

Time GPS position: 14:07

Lat: (decimal degrees) 58.70423 — 58 42.254

Lon: (decimal degrees) -136.23337 — 136 14.002

Depth: (m) 337

CTD dropped to (m): 300

Station# 005 **WP#** 016

Comments: end time: 14:19

Location: Between N. Drake & SW of Transit Pt.

Tide High Height: 3.41 m **Low height:** 0.78 m **Time since high:** -36' **Time since low:** 8

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C2008407 (CTD id: C2 | Dump #: 008 | Cast #: 07)

Date: 2002032 2 (Y Y Y Y M M D D)

Time CTD on: 15:22

Time GPS position: 15:22

Lat: (decimal degrees) 58.65093 — 58 39 056

Lon: (decimal degrees) -136.11488 — 136 06893

Depth: (m) 288

CTD dropped to (m): 260

Station# 004 **WP#** 017

Comments: end time: 15:32

Location: N of Drake I. & N. of Marble I

Tide High Height: 3.41 m **Low height:** 0.78m **Time since high:** -30' **Time since low:** 83

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C (CTD id | Dump # | Cast #)

Date: (Y Y Y Y M M D D)

Time CTD on: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station# **WP#**

Comments:

Location:

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name:_____ Logbook Page: _____

Cast Name: C
CTD id Dump # Cast #

Date:
Y Y Y Y M M D D

Time CTD on: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C
CTD id Dump # Cast #

Date:
Y Y Y Y M M D D

Time CTD on: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C
CTD id Dump # Cast #

Date:
Y Y Y Y M M D D

Time CTD on: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

CTD 1

6t

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J. deLaBruere, C. Dick, H. Rieden, L. Etherington Logbook Page: 1

Cast Name: c1 0085 00 (CTD id / Dump # / Cast #)

Date: 2002 04 26 (Y Y Y Y M M D D)

Time CTD on: 7:33

Time GPS position: 7:30

Lat: (decimal degrees) 58 . 1 9 5 9 8 → 58.326663

Lon: (decimal degrees) -135 . 52 48 3 → -135.87472

Depth: (m) 57

CTD dropped to (m): 50

Station# 0025

WP#

Comments: working out kinks of 6t hydraulics → BAD CAST

Location: Icy Strait

Tide High Height: 4.94 **Low height:** -0.90m **Time since high:** -374 **Time since low:** 2

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: c1 0085 01 (CTD id / Dump # / Cast #)

Date: 2002 04 26 (Y Y Y Y M M D D)

Time CTD on: 7:38

Time GPS position: 7:30

Lat: (decimal degrees) 58 . 2 4 7 4 5 → 58.326663

Lon: (decimal degrees) -135 . 49 7 05 → -135.87472

Depth: (m) 57

CTD dropped to (m): 50

Station# 0025

WP#

Comments: slight pause on way down ~40m

Location: Icy strait

Tide High Height: 4.94m **Low height:** -0.90m **Time since high:** -369 **Time since low:** 7

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: c1 0085 02 (CTD id / Dump # / Cast #)

Date: 2002 04 26 (Y Y Y Y M M D D)

Time CTD on: 08:21

Time GPS position: 08:22

Lat: (decimal degrees) 58 . 2 9 4 0 0 → 58.41242

Lon: (decimal degrees) -135 . 59 4 0 3 → -135.99508

Depth: (m) 59.1

CTD dropped to (m): 50 m

Station# 0016

WP#

Comments:

Location: Mouth of Glacier Bay

High Height: 4.94m Low Height: -0.90m Time since High: 326 Low: 50

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: JdLB, CD, HR, LE

Logbook Page: 2

Cast Name:	Date:	Time CTD on:
C1008503 (CTD id / Dump # / Cast #)	20020426 (Y Y Y Y M M D D)	8:49

Lat: (decimal degrees)	Lon: (decimal degrees)	Time GPS position:
58.~~59.400~~ 58.~~99000~~.49041	-136.03094 -136.05157	8:45

corrected in .wv & .hex

Depth: (m)	CTD dropped to (m):	Station#	WP#
87	80	002	027

Comments:

Location: Sitakoday

Tide High Height: 4.94m Low height: 0.90m Time since high: -298 Time since low: 78

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C1008504 (CTD id / Dump # / Cast #)	20020426 (Y Y Y Y M M D D)	9:1[illegible]

Lat: (decimal degrees)	Lon: (decimal degrees)	Time GPS position:
58.34301 58.57168	-136.03908 -136.~~05~~06513	9:10

Depth: (m)	CTD dropped to (m):	Station#	WP#
111	100	003	028

Comments:

Location: SE of Willoughby

Tide High Height: 5.37m Low height: -0.87m Time since high: -287 Time since low: ~~[illegible]~~ 78

Sampling: Oceanography Sonic Bottom Dive Other :

chosen for Man Bay b/c slack 03 was bad cast

Cast Name:	Date:	Time CTD on:
C1008505 (CTD id / Dump # / Cast #)	20020426 (Y Y Y Y M M D D)	09:40

Lat: (decimal degrees)	Lon: (decimal degrees)	Time GPS position:
58.39048 58.6508	-136.06904 -136.11506	:

Depth: (m)	CTD dropped to (m):	Station#	WP#
294	280	004	029

Comments:

Location: N of Drake Is; N of Marble

Tide hi height: 5.37m lo height: -0.87m Since/To hi: -260 lo: 105

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: JdlB, CD, HR, LE Logbook Page: 3

Cast Name: C1008506 (CTD id / Dump # / Cast #)
Date: 20020426 (YYYY MM DD)
Time CTD on: 10:17
Time GPS position: 10:17
Lat: (decimal degrees) 58.42249 → 58.7041 5
Lon: (decimal degrees) -136.14008 → -136.23347
Depth: (m) 366 (Avg)
CTD dropped to (m): 300
Station# 005030
WP#
Location: Between N Drake & SW Tlingit Pt.
Comments: No Dept reading. Used avg depth for Station
Tide High Height: -0.87 **Low height:** 5.37 **Time since high:** -223 **Time since low:** 22
Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C1008507 (CTD id / Dump # / Cast #)
Date: 20020426 (YYYY MM DD)
Time CTD on: 10:27
Time GPS position:
Lat: (decimal degrees)
Lon: (decimal degrees)
Depth: (m)
CTD dropped to (m):
Station# 005030
WP#
Location: Between N Drake & SW Tlingit Pt.
Comments: accidentally turned on.. Bad Cast (Log)
Tide High Height: **Low height:** **Time since high:** **Time since low:**
Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C1008508 (CTD id / Dump # / Cast #)
Date: 20020426 (YYYY MM DD)
Time CTD on: 10:59
Time GPS position: 10:58
Lat: (decimal degrees) 58.39463 → 58.65772
Lon: (decimal degrees) -136.21923 → -136.36583
Depth: (m) 158
CTD dropped to (m): 150
Station# 022031
WP#
Location: Entrance to Geikie
Comments: maybe hit bottom??

Tide Heights: High: 5.37m Low: -0.87m
Time Since/To: High: -181 Low: 184

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: LJB/LLE/CAD/HSR Logbook Page: 4

Cast Name: C 1 0 0 8 5 0 9 (CTD id / Dump # / Cast #)
Date: 2 0 0 2 0 4 2 6 (Y Y Y Y M M D D)
Time CTD on: 11:33
Time GPS position: 11:30
Lat: (decimal degrees) 58.3585 → 58.59808
Lon: (decimal degrees) -136.3089 → -136.50648
Depth: (m) 58
CTD dropped to (m): 50
Station# 23 (X) **WP#** 032
Location: Head of Geike
Comments:
Tide High Height: 5.37m **Low height:** -0.87m **Time since high:** -147 **Time since low:** 218
Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C 1 0 0 8 5 1 0 (CTD id / Dump # / Cast #)
Date: 2 0 0 2 0 4 2 6 (Y Y Y Y M M D D)
Time CTD on: 13:18
Time GPS position: 13:16
Lat: (decimal degrees) 58.3431 2 → 58.57187
Lon: (decimal degrees) -136.0389 → -136.06482
Depth: (m) 100
CTD dropped to (m): 114
Station# 003 **WP#** 033
Comments: Switch didn't catch/Forgot to turn on - No cast 2
Location: SE Willoughby
Tide High Height: 5.37 **Low height:** -0.87 **Time since high:** -48 **Time since low:** 257
Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C 1 0 0 8 5 1 1 0 (CTD id / Dump # / Cast #)
Date: 2 0 0 2 0 4 2 6 (Y Y Y Y M M D D)
Time CTD on: 13:48
Time GPS position: 13:45
Lat: (decimal degrees) 58.2940 2 → 58.49003
Lon: (decimal degrees) -136.0310 1 → -136.05168
Depth: (m) 94
CTD dropped to (m): 80
Station# 002 **WP#** 034
Comments:
Location: Sitakaday
Tide height hi: 5.37m lo: -0.87m Time Since/To hi: -12 lo: 353

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: LJ2B/CAD/HZ/LE

Logbook Page: ~~3~~ 5

Cast Name: C 1 0 0 8 5 1 ~~2~~ 11 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 4 2 6 (Y Y Y Y M M D D)	Time CTD on: 14:16
Lat: (decimal degrees) 58.24751 58.41257	Lon: (decimal degrees) -135.59690 -135.99483	Time GPS position: 14:13
Depth: (m) 65	CTD dropped to (m): 50	Station# 0 0 1 / WP# 0 3 5
Comments:		Location: Mouth of Glacier Bay
Tide High Height: 5.37m	Low height: -0.33m	Time since high: 16 / Time since low: -35
Sampling: Oceanography Sonic Bottom Dive Other:		

Cast Name: C 1 0 0 8 5 ~~1 3~~ 12 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 4 2 6 (Y Y Y Y M M D D)	Time CTD on: 14:47
Lat: (decimal degrees) 58.19599 58.32665	Lon: (decimal degrees) -135.52498 -135.87497	Time GPS position: :
Depth: (m) 54	CTD dropped to (m): 40	Station# 0 0 0 / WP# 0 3 6
Comments:		Location: Icy Strait
Tide High Height: 5.37m	Low height: -0.33m	Time since high: 47 / Time since low: -320
Sampling: Oceanography Sonic Bottom Dive Other:		

Cast Name: C (CTD id / Dump # / Cast #)	Date: (Y Y Y Y M M D D)	Time CTD on: :
Lat: (decimal degrees) .	Lon: (decimal degrees) .	Time GPS position: :
Depth: (m)	CTD dropped to (m):	Station# / WP#
Comments:		Location:
Tide High Height:	Low height:	Time since high: / Time since low:
Sampling: Oceanography Sonic Bottom Dive Other:		

CTD #1 on Sigma-T

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: CAD, HSR, LLE Logbook Page: 1

Cast Name: C1008600 (CTD id / Dump # / Cast #)
Date: 20020507 (Y Y Y Y M M D D)
Time CTD on: 10:09
Time GPS position: 10:08
Lat: (decimal degrees) 58.43957 → 58.73262
Lon: (decimal degrees) -136.06805 → -136.11342
Depth: (m) ~~150~~
CTD dropped to (m): 130
Station# 013037
WP#
Location: SE Tlingit Pt., NW of Sturgis
Comments:
Tide High Height: 4.03m **Low height:** 1.21m **Time since high:** 84 min **Time since low:** 268 min
Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C1008601 (CTD id / Dump # / Cast #)
Date: 20020507 (Y Y Y Y M M D D)
Time CTD on: 10:32
Time GPS position: 10:30
Lat: (decimal degrees) 58.47504 → 58.79173
Lon: (decimal degrees) -136.06507 → -136.10845
Depth: (m) ~~84~~
CTD dropped to (m): 70
Station# 014038
WP#
Location: Muir Sill
Comments:
Tide High Height: 4.03m **Low height:** 1.21m **Time since high:** -61 min **Time since low:** ~~292~~ 292 min
Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C1008602 (CTD id / Dump # / Cast #)
Date: 20020507 (Y Y Y Y M M D D)
Time CTD on: 10:55
Time GPS position: 10:54
Lat: (decimal degrees) 58.53751 → 58.89585
Lon: (decimal degrees) -136.05602 → -136.09336
Depth: (m) ~310m
CTD dropped to (m): 300m
Station# 016039
WP#
Location: E. of Hunter Cove
Comments: Skip Station 015

tide height: hi: 4.03m low 1.21m
time to/since: hi: -38 min
low: 315 min

CTD*1 on Sigma-T

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: CAD, LLE, HSR

Logbook Page: 2

Cast Name: C1008603 (CTD id / Dump # / Cast #)

Date: 20020507 (Y Y Y Y M M D D)

Time CTD on: 11:32

Lat: (decimal degrees) 58.58499 — 58.97498

Lon: (decimal degrees) -136.08207 — -136.13678

Time GPS position: 11:30

Depth: (m) 197m

CTD dropped to (m): 180m

Station# 017 **WP#** 040

Comments:

Location: E. of Westdahl

Tide High Height: 4.03 **Low height:** 1.21m **Time since high:** -1 min **Time since low:** 307 min

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C1008604 (CTD id / Dump # / Cast #)

Date: 20020507 (Y Y Y Y M M D D)

Time CTD on: 12:05

Lat: (decimal degrees) 59.02997 — 59.04995

Lon: (decimal degrees) -136.11101 — -136.18502

Time GPS position: 12:04

Depth: (m) 217m

CTD dropped to (m): 200m

Station# 018 **WP#** 041

Comments:

Location: S. of Riggs, NW McBride

Tide High Height: 4.03m **Low height:** .75 **Time since high:** 38 min **Time since low:** -355 min

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C1008605 (CTD id / Dump # / Cast #)

Date: 20020507 (Y Y Y Y M M D D)

Time CTD on: 12:32

Lat: (decimal degrees) 59.04299 — 59.07165

Lon: (decimal degrees) -136.20205 — -136.33675

Time GPS position: 12:30

Depth: (m) 233m

CTD dropped to (m): 220m

Station# 019 **WP#** 042

Comments:

Location: Muir Inlet

Tide High Height: 4.03m **Low height:** .75 **Time since high:** 65 min **Time since low:** -295 min

Sampling: (Oceanography) Sonic Bottom Dive Other :

CTD #1 – Sigma-T

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: CAD, LLE, HSR Logbook Page: 3

Cast Name: C1008606 (CTD id / Dump # / Cast #)
Date: 20020507 (Y Y Y Y M M D D)
Time CTD on: 13:00
Time GPS position: 12:59
Lat: (decimal degrees) 59.05160 → 59.08600
Lon: (decimal degrees) -136.22253 → -136.37088
Depth: (m) 188m
CTD dropped to (m): 170m
Station# 020043
WP#
Location: Head of Muir
Comments: ##
Tide High Height: 4.03m **Low height:** .75m **Time since high:** 93min **Time since low:** 300min
Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C1008607 (CTD id / Dump # / Cast #)
Date: 20020508 (Y Y Y Y M M D D)
Time CTD on: 09:50
Time GPS position: 09:49
Lat: (decimal degrees) 58.45549 → 58.75915
Lon: (decimal degrees) -136.21098 → -136.35163
Depth: (m) ~200m (no reading)
CTD dropped to (m): 260m
Station# 006044
WP#
Location: East of Hugh Miller Inlet
Comments: Oops - hit bottom!
Tide High Height: 4.26m **Low height:** .77m **Time since high:** -136min **Time since low:** 210 min
Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C1008608 (CTD id / Dump # / Cast #)
Date: 20020508 (Y Y Y Y M M D D)
Time CTD on: 10:24
Time GPS position: 10:23
Lat: (decimal degrees) 58.48702 → 58.8117
Lon: (decimal degrees) -136.28404 → -136.47340
Depth: (m) ~435m (no reading)
CTD dropped to (m): 300m
Station# 007045
WP#
Location: N. Blue Mouse, W. Tidal Inlet
Comments:
Tide High Height: 4.26m **Low height:** .77m **Time since high:** -116min. **Time since low:** 244min
Sampling: (Oceanography) Sonic Bottom Dive Other :

CTD #1 on σ_t

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: CAD, HSR, LLE

Logbook Page: 4

Cast Name: C1008609 (CTD id C1 | Dump # 008 | Cast # 609)

Date: 20020508 (YYYY MM DD)

Time CTD on: 11:03

Lat: (decimal degrees) 58.51899 → 58.86498

Lon: (decimal degrees) -136.35594 → -136.59323

Time GPS position: 11:01

Depth: (m) ~426 m

CTD dropped to (m): 300m

Station# 008 | WP# 046

Comments: at edge of ice "field"

Location: South of Rendu Inlet

Tide High Height: 4.26m Low height: .77m Time since high: -77min Time since low: 283min

Sampling: (Oceanography) Sonic Bottom Dive Other :

Switch Didn't catch /

Cast Name: C1008610 (CTD id C1 | Dump # 008 | Cast # 10)

Date: 20020508 (YYYY MM DD)

Time CTD on: 11:38

Lat: (decimal degrees)

Lon: (decimal degrees)

Time GPS position: 11:37

Depth: (m) ~377 m (no reading)

CTD dropped to (m): 300 m

Station# 009 | WP# 047

Comments:

Location: South of Russell

Tide High Height: 4.26m Low height: .77m Time since high: -42 min Time since low: +318 min

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C1008611 10 (CTD id C1 | Dump # 008 | Cast # 11 10)

Date: 20020508 (YYYY MM DD)

Time CTD on: 12:09

Lat: (decimal degrees) 58.54136 → 58.90226

Lon: (decimal degrees) -136.49759 → -136.82932

Time GPS position: 12:09

Depth: (m) ~360m

CTD dropped to (m): 300m

Station# 010 | WP# 048

Comments: 2700 ft short due to heavy ice

Location: East of Russell Island

Tide High Height: 4.26m Low height: .77m Time since high: -11 min Time since low: 349min

Sampling: (Oceanography) Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: PNH & Paul Hooge

Logbook Page: 00

Cast Name: 02009300 (CTD id / Dump # / Cast #)	Date: 20020707 (Y Y Y Y M M D D)	Time CTD on: 17:06
Lat: (decimal degrees) 58.38567 (23.140)	Lon: (decimal degrees) 135.97992 (58.795)	Time GPS position: 17:02 72
Depth: (m) 695	CTD dropped to (m): 60	Station# / WP#
Comments: taken in conjunction w/ drifters? E calm side of current interface		Location: Lower Bay Mouth
Tide High Height: 3.75m Low height: 1.10m	Time since high: +334	Time since low: -25
Sampling: Oceanography Sonic Bottom Dive Other:		

N. Passage tides

Cast Name: 02009301 (CTD id / Dump # / Cast #)	Date: 20020707 (Y Y Y Y M M D D)	Time CTD on: 17:19
Lat: (decimal degrees) 58.3831 (22.986)	Lon: (decimal degrees) 135.97542 (58.525)	Time GPS position: 17:19 73
Depth: (m) 73	CTD dropped to (m): 60	Station# / WP#
Comments: taken in conjunction w/ drifters? W rough side of current interface		Location: Lower Bay Mouth
Tide High Height: 3.75m Low height: 1.10m	Time since high: +293	Time since low: -12
Sampling: Oceanography Sonic Bottom Dive Other:		

Cast Name: 0 (CTD id / Dump # / Cast #)	Date: (Y Y Y Y M M D D)	Time CTD on: :
Lat: (decimal degrees) .	Lon: (decimal degrees) .	Time GPS position: :
Depth: (m)	CTD dropped to (m):	Station# / WP#
Comments:		Location:
Tide High Height: Low height:	Time since high:	Time since low:
Sampling: Oceanography Sonic Bottom Dive Other:		

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

Name:_______________ Logbook Page: ________

Cast Name: C _ _ _ _ _ _ _
CTD id Dump # Cast #

Date: Y Y Y Y M M D D

Time CTD on: _ _ : _ _

Lat: (decimal degrees) _ _ . _ _ _ _ _

Lon: (decimal degrees) _ _ _ . _ _ _ _ _

Time GPS position: _ _ : _ _

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C _ _ _ _ _ _ _
CTD id Dump # Cast #

Date: Y Y Y Y M M D D

Time CTD on: _ _ : _ _

Lat: (decimal degrees) _ _ . _ _ _ _ _

Lon: (decimal degrees) _ _ _ . _ _ _ _ _

Time GPS position: _ _ : _ _

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C _ _ _ _ _ _ _
CTD id Dump # Cast #

Date: Y Y Y Y M M D D

Time CTD on: _ _ : _ _

Lat: (decimal degrees) _ _ . _ _ _ _ _

Lon: (decimal degrees) _ _ _ . _ _ _ _ _

Time GPS position: _ _ : _ _

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

*found 2 files from April/May Oceano. ~~C1008300000.hex~~ named under dump 87

E Kean
H Rieden
J de la Breuve
L Etherington
P Hooge

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: L Etherington

Logbook Page: 1

Cast Name:	Date:	Time CTD on:
C1088000 (CTD id / Dump # / Cast #)	20020706 (Y Y Y Y M M D D)	07:35
Lat: (decimal degrees)	**Lon: (decimal degrees)**	**Time GPS position:**
58.18.206 (58.3034)	-136.11.398 (-136.1899)	07:30

Changed in hex & CNV files

Depth: (m) 170 m

CTD dropped to (m): 150 m

Station#: | WP#: 025

Comments: North Inian Pass tide correction

Location: North Passage, W. end of GLBA N.P., Alaska

Western North Passage

Tide High Height: 2.44 m Low height: .17 m

Time since high: -242 min (1135)

Time since low: 142 min (0511)

Sampling: Oceanography Sonic Bottom Dive Other: drifters / ADCP

Cast Name:	Date:	Time CTD on:
C1088002 (CTD id / Dump # / Cast #)	20020706 (Y Y Y Y M M D D)	08:43
Lat: (decimal degrees)	**Lon: (decimal degrees)**	**Time GPS position:**
58.18.216 (58.3036)	-136.12.305 (-136.2051)	08:40

Depth: (m) 170 m

CTD dropped to (m): 150 m

Station#: | WP#: 026

Comments: N. Inian Pass. tide correction

Location: North Passage, W. end of GLBA N.P., AK

Western North Passage

Tide High Height: 2.44 m Low height: .17 m

Time since high: -172 min

Time since low: 212 min

Sampling: Oceanography Sonic Bottom Dive Other: drifters / ADCP

Cast Name:	Date:	Time CTD on:
C1088002 (CTD id / Dump # / Cast #)	20020706 (Y Y Y Y M M D D)	9:45
Lat: (decimal degrees)	**Lon: (decimal degrees)**	**Time GPS position:**
58.18.232 (58.3039)	-136.13.000 (-136.2167)	9:42

Depth: (m) 170 m

CTD dropped to (m): 150 m

Station#: | WP#: 027

Comments: N. Inian Pass. tide correction

Location: N. PASSAGE / W. END OF GLACIER BAY, AK

Western North Passage

Tide High Height: 2.44 m Low height: .17 m

Time since high: -110 min

Time since low: 272 min

Sampling: Oceanography Sonic Bottom Dive Other: drifters / ADCP

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: LLE, HSR, JdeLaB, EAK, PNH Logbook Page: 2

Cast Name: C1 0 8 8 0 0 3 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 7 0 6 (Y Y Y Y M M D D)	Time CTD on: 10:53
Lat: (decimal degrees) 58.18.267 (58.3045)	Lon: (decimal degrees) -136.14.383 (-136.2397)	Time GPS position: 10:50
Depth: (m) 208m	CTD dropped to (m): 190m	Station# / WP# 028
Comments: N. Inian Pass. tidal correction		Location: N. Passage, W. end of GBNP, AK (western North Passage)
Tide High Height: 2.44m Low height: .17m	Time since high: -42 min (1135)	Time since low: 342 min (0511)
Sampling: Oceanography Sonic Bottom Dive Other: drifters		

7/16/01 uploaded

Cast Name: C1 0 8 9 0 0 0 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 7 0 7 (Y Y Y Y M M D D)	Time CTD on: 07:12
Lat: (decimal degrees) 58x20.221 (58.3370)	Lon: (decimal degrees) -136x04.513 (-136.0752)	Time GPS position: 07:11
Depth: (m) 97m	CTD dropped to (m): 80m	Station# / WP# 029
Comments: cast taken at release of drifter/beginning of transect, but drifted/delay after cast (West Sill Station)		Location: S. of Point Carolus N. Passage, Western mouth of GLBA, AK
Tide High Height: 2.92m Low height: -.05m	Time since high: -314 (1336)	Time since low: +73 (0559)
Sampling: Oceanography Sonic Bottom Dive Other: ~~drifters~~ ADCP		

→ therefore will repeat CTD cast when get back to West Sill stn.

Cast Name: C1 0 8 9 0 0 1 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 0 7 0 7 (Y Y Y Y M M D D)	Time CTD on: 7:57
Lat: (decimal degrees) 58x20.168 (58.3361)	Lon: (decimal degrees) -136x04.562 (-136.0760)	Time GPS position: 7:55
Depth: (m) 100m	CTD dropped to (m): 90	Station# / WP# 030
Comments: cast taken at start of West Sill transect		Location: West Sill stn.
Tide High Height: 2.92m Low height: -.05m	Time since high: -269	Time since low: +118
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

(see map in Field Notes for Station Names)

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HSR, LLE, EAK, J de la B. Logbook Page: 3

838 in tak?

Cast Name:	Date:	Time CTD on:
01089002 (CTD id / Dump # / Cast #)	20020707 (Y Y Y Y M M D D)	8:56
Lat: (decimal degrees) 58x22.732 58.3789	Lon: (decimal degrees) -135x58.645 -135.9774	Time GPS position: 8:54

Depth: (m) 72m | CTD dropped to (m): 60m | Station# [illegible] | WP# 031

Comments: Currents swirling about

Location: Entrance Stn.

Tide High Height: 2.92m Low height: -.05m | Time since high: -210 | Time since low: +177

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name:	Date:	Time CTD on:
01089003 (CTD id / Dump # / Cast #)	20020707 (Y Y Y Y M M D D)	10:37
Lat: (decimal degrees) 58x20.167 58.3361	Lon: (decimal degrees) -136x04.569 -136.0762	Time GPS position: 10:35

Depth: (m) 100m | CTD dropped to (m): 90m | Station# | WP# 032

Comments:

Location: West Sill Stn.

Tide High Height: 2.92m Low height: -0.05m | Time since high: -109 | Time since low: +278

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name:	Date:	Time CTD on:
01089004 (CTD id / Dump # / Cast #)	20020707 (Y Y Y Y M M D D)	11:23
Lat: (decimal degrees) 58x22.761 58.3794	Lon: (decimal degrees) -135x58.661 -135.9777	Time GPS position: 11:22

Depth: (m) 74m | CTD dropped to (m): 60 | Station# | WP# 033

Comments:

Location: Entrance

Tide High Height: 2.92m Low height: -0.05m | Time since high: -63 | Time since low: +324

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Vmax = 12.0 7/7 15.15

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: JdeLaB, EAK, HSR, LLE Logbook Page: 4

Cast Name: 0108900 5 (CTD id / Dump # / Cast #) **Date:** 2002070 7 (Y Y Y Y M M D D) **Time CTD on:** 12:36

Lat: (decimal degrees) 58 x 20.157 = 58.3360 **Lon: (decimal degrees)** 136 x 04.565 = -136.0761 **Time GPS position:** 12:34

Depth: (m) 102m **CTD dropped to (m):** 90m **Station#** 034 **WP#**

Comments: **Location:** West Sill Stn.

Tide High Height: 2.92m **Low height:** 1.1m **Time since high:** +10 **Time since low:** -295

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name: 0108900 6 (CTD id / Dump # / Cast #) **Date:** 2002070 7 (Y Y Y Y M M D D) **Time CTD on:** 14:05

Lat: (decimal degrees) 58 x 22.860 = 58.381 **Lon: (decimal degrees)** 135 x 59.388 = -135.9898 **Time GPS position:** 13:58

Depth: (m) 67m **CTD dropped to (m):** 60m **Station#** **WP#** 35

Comments: Stopped a bit (~400m) short when Philip & Paul arrived **Location:** close to Entrance Stn.

Tide High Height: 2.92m **Low height:** 1.1m **Time since high:** +99 **Time since low:** -206

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name: 0108900 7 (CTD id / Dump # / Cast #) **Date:** 2002070 7 (Y Y Y Y M M D D) **Time CTD on:** 15:00

Lat: (decimal degrees) 58 x 20.166 = 58.3361 **Lon: (decimal degrees)** 136 x 04.561 = -136.0760 **Time GPS position:** 15:00

Depth: (m) 103m **CTD dropped to (m):** 90m **Station#** **WP#** 036

Comments: **Location:** West Sill Stn.

Tide High Height: 2.92m **Low height:** 1.10m **Time since high:** +154 **Time since low:** -151

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: JdeLaB, EAK, HSR, LLE

Logbook Page: 5

Cast Name:	Date:	Time CTD on:
01089008 (CTD id / Dump # / Cast #)	20020707 (Y Y Y Y M M D D)	16:32
Lat: (decimal degrees) 58x22.796 58.3799	Lon: (decimal degrees) 135x58.685 -135.9781	Time GPS position: 16:31
Depth: (m) 72m	CTD dropped to (m): 60m	Station# / WP# 037
Comments: acclimation at surface lasted 1min. 45 sec.		Location: Entrance Stn.
Tide High Height: 2.92m Low height: 1.1m	Time since high: +246	Time since low: -59
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

Cast Name:	Date:	Time CTD on:
01089009 (CTD id / Dump # / Cast #)	20020707 (Y Y Y Y M M D D)	17:32
Lat: (decimal degrees) 58x20.174 58.3362	Lon: (decimal degrees) -136x04563 -136.0761	Time GPS position: 17:30
Depth: (m) 100	CTD dropped to (m): 90	Station# / WP# 038
Comments:		Location: West Sill Stn.
Tide High Height: 2.92m Low height: 1.1m	Time since high: +306	Time since low: +1
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

Cast Name:	Date:	Time CTD on:
01089010 (CTD id / Dump # / Cast #)	20020707 (Y Y Y Y M M D D)	18:44
Lat: (decimal degrees) 58x22.735 58.3789	Lon: (decimal degrees) -135x58.639 -135.9773	Time GPS position: 18:42
Depth: (m) 72	CTD dropped to (m): 60	Station# / WP# 039
Comments:		Location: Entrance Stn.
Tide High Height: 3.75m Low height: 1.10m	Time since high: -288	Time since low: +73
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

uploaded 7/7/02

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J de la Bruere, H. Rieden, L. Etherington, E. Kean Logbook Page: 6

Cast Name: 01090000 (CTD id / Dump # / Cast #)	Date: 20020708 (Y Y Y Y M M D D)	Time CTD on: 07:42
Lat: (decimal degrees) 58.22.725 dec.deg. 58.3787	Lon: (decimal degrees) -135.58.638 -135.9773	Time GPS position: 07:40
Depth: (m) 71	CTD dropped to (m): 60	Station# / WP# 040
Comments:		Location: Entrance
Tide High Height: 3.06m Low height: -.29	Time since high: -329	Time since low: +62
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

Cast Name: 01090001 (CTD id / Dump # / Cast #)	Date: 20020708 (Y Y Y Y M M D D)	Time CTD on: 08:28
Lat: (decimal degrees) 58.19.936 dec.deg. 58.3323	Lon: (decimal degrees) -135.52.590 -135.8765	Time GPS position: 08:26
Depth: (m) 53m	CTD dropped to (m): 40m	Station# / WP# 041
Comments:		Location: East Sill
Tide High Height: 3.06m Low height: -.29m	Time since high: -283	Time since low: +168
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

Cast Name: 01090002 (CTD id / Dump # / Cast #)	Date: 20020708 (Y Y Y Y M M D D)	Time CTD on: 09:34
Lat: (decimal degrees) 58.22.737 dec.deg. 58.3789	Lon: (decimal degrees) -135.58.646 -135.9774	Time GPS position: 09:33
Depth: (m) 72m	CTD dropped to (m): 50m	Station# / WP# 042
Comments:		Location: Entrance
Tide High Height: 3.06m Low height: -.29m	Time since high: -217	Time since low: +174
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J de La Bruere, H. Rieden, L. Etheringon, E. Kean Logbook Page: 7

Cast Name:	Date:	Time CTD on:
01090003 (CTD id / Dump # / Cast #)	20020708 (Y Y Y Y M M D D)	10:43
Lat: (decimal degrees) 58.19.993 dec deg. 58.3332	Lon: (decimal degrees) -135.52.713 -135.8785	Time GPS position: 10:40
Depth: (m) 58	CTD dropped to (m): 50	Station# / WP# 043
Comments:		Location: East Sill
Tide High Height: 3.06m Low height: -.29m	Time since high: -127	Time since low: +264
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

Cast Name:	Date:	Time CTD on:
01090004 (CTD id / Dump # / Cast #)	20020708 (Y Y Y Y M M D D)	:
Lat: (decimal degrees) 58. 58.3789	Lon: (decimal degrees) -135. -135.9773	Time GPS position: 11:44
Depth: (m) 74	CTD dropped to (m): 60	Station# / WP# 044
Comments: bad cast (hose not on) :(		Location: Entrance
Tide High Height: 3.06 Low height: -.29	Time since high: -82	Time since low: 309
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

Cast Name:	Date:	Time CTD on:
01090005 (CTD id / Dump # / Cast #)	20020708 (Y Y Y Y M M D D)	11:49
Lat: (decimal degrees) 58.22.731 58.3789	Lon: (decimal degrees) -135.58.640 -135.9773	Time GPS position: 11:44
Depth: (m) 74	CTD dropped to (m): 60	Station# / WP# 044
Comments:		Location: Entrance
Tide High Height: 3.06m Low height: -.29 m	Time since high: (1311) -82 min	Time since low: (0640) 309
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J. de la Bruere, L. Etherington, H. Rieden, E. Kean Logbook Page: 8

Cast Name:	Date:	Time CTD on:
01090006 (CTD id / Dump # / Cast #)	20020708 (Y Y Y Y M M D D)	12:56
Lat: (decimal degrees) 58.20002 (58.3334)	Lon: (decimal degrees) -135.52612 (-135.8769)	Time GPS position: 12:53

Depth: (m) 55 | CTD dropped to (m): 50 | Station# | WP# 045

Comments:

Location: EAST SILL

Tide High Height: 3.06m Low height: 1.07m | Time since high: -15 | Time since low: 323

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name:	Date:	Time CTD on:
01090007 (CTD id / Dump # / Cast #)	20020708 (Y Y Y Y M M D D)	13:44
Lat: (decimal degrees) 58.22738 (58.3790)	Lon: (decimal degrees) -135.58638 (-135.9773)	Time GPS position: 13:42

Depth: (m) 75 | CTD dropped to (m): 60 | Station# | WP# 046

Comments:

Location: Entrance

Tide High Height: 3.06m Low height: 1.07m | Time since high: +33 | Time since low: -275

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name:	Date:	Time CTD on:
01090008 (CTD id / Dump # / Cast #)	20020708 (Y Y Y Y M M D D)	14:55
Lat: (decimal degrees) 58.20002 (58.3337)	Lon: (decimal degrees) -135.52628 (-135.8771)	Time GPS position: 14:54

Depth: (m) 55m | CTD dropped to (m): 50 | Station# | WP# 047

Comments:

Location: East Sill

Tide High Height: 3.06m Low height: 1.07m | Time since high: (1311) 108 min | Time since low: (1819) -208 min

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J. de la Bruere, L. Etherington, H. Rieden, E. Kean Logbook Page: 9

Cast Name:	Date:	Time CTD on:
01090009 (CTD id / Dump # / Cast #)	20020708 (Y Y Y Y M M D D)	15:49
Lat: (decimal degrees) 58.22729 (58.3788)	Lon: (decimal degrees) -135.58626 (-135.9771)	Time GPS position: 15:47

Depth: (m) 74m CTD dropped to (m): 60m Station#: WP# 048

Comments:

Location: ENTRANCE

Tide High Height: ~~3.06m~~ 3.06m Low height: ~~18.19~~ 1.07m Time since high: + 158 Time since low: - 150

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name:	Date:	Time CTD on:
01090010 (CTD id / Dump # / Cast #)	20020708 (Y Y Y Y M M D D)	16:58
Lat: (decimal degrees) 58.19983 (58.3331)	Lon: (decimal degrees) -135.52590 (-135.8765)	Time GPS position: 16:56

Depth: (m) 54 CTD dropped to (m): 50 Station#: WP# 049

Comments: ended transects due to windy weather

Location: East Sill

Tide High Height: 3.06m Low height: 1.07m Time since high: + 277 Time since low: - 81

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

uploaded 7/8/02

Cast Name:	Date:	Time CTD on:
01091000 (CTD id / Dump # / Cast #)	20020709 (Y Y Y Y M M D D)	08:46
Lat: (decimal degrees) 58.20574 (58.3429)	Lon: (decimal degrees) -136.01760 (-136.0293)	Time GPS position: 08:44

Depth: (m) 54 CTD dropped to (m): 50 Station#: WP# 051

Comments: ✓

Location: North Passage (NP)

Tide High Height: 3.19m Low height: -.49m Time since high: -306 Time since low: +85

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J. de La Bruere, L. Etherington, H. Rieden, E. Keen Logbook Page: 10

Cast Name: 01091001 (CTD id / Dump # / Cast #)	Date: 20020709 (Y Y Y Y M M D D)	Time CTD on: 09:54
Lat: (decimal degrees) 58.22029 (58.3672)	Lon: (decimal degrees) -135.58275 (-135.9713)	Time GPS position: 09:52
Depth: (m) 71	CTD dropped to (m): 60	Station#: / WP#: 052
Comments: ✓		Location: Mouth of GBA (M)
Tide High Height: 3.19m	Low height: -0.49m	Time since high: -238 / Time since low: +153
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

Cast Name: 01091002 (CTD id / Dump # / Cast #)	Date: 20020709 (Y Y Y Y M M D D)	Time CTD on: 11:11
Lat: (decimal degrees) 58.19951 (58.3325)	Lon: (decimal degrees) -135.53174 (-135.8862)	Time GPS position: 11:09
Depth: (m) 43	CTD dropped to (m): 30	Station#: / WP#: 053
Comments: ✓ At surface for 1min. 43sec.		Location: North Icy Strait (NIS)
Tide High Height: 3.19m	Low height: -.49m	Time since high: -160 / Time since low: +230
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

Cast Name: 01091003 (CTD id / Dump # / Cast #)	Date: 20020709 (Y Y Y Y M M D D)	Time CTD on: 11:40
Lat: (decimal degrees) 58.18680 (58.3113)	Lon: (decimal degrees) -135.50598 (-135.8433)	Time GPS position: 11:38
Depth: (m) 83	CTD dropped to (m): 70	Station#: / WP#: 054
Comments: ✓ Potential Bad cast hose was disconnected when brought up		Location: South Icy Strait
Tide High Height: 3.19m	Low height: -0.49m	Time since high: -132 / Time since low: +259
Sampling: Oceanography Sonic Bottom Dive Other: ADCP		

L. Etherington
H. Rieden
E. Kear
J. de la Bruere

Oceanography

Start of July 7th

July 7th 2002

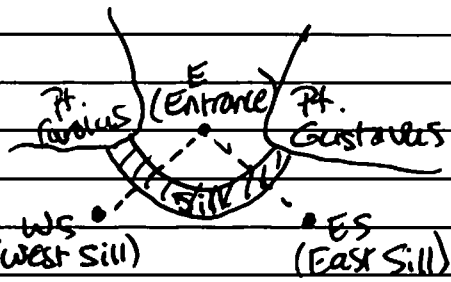
West side of sill at mouth of Glacier Bay (vicinity of Pt. Carolus) Glacier Bay National Park, AK

North Passage slack current 7:09 am

CTD cast taken 7:12 am (C1089000)

ADCP started at 7:44

motored to station (we drifted off station when preparing drifters)



(ADCP)

Profile #20 (8:04am) started from WS heading towards E for west transect

→ CTD cast # C1089001 taken at start of transect

• Transect 1 Profiles 20-54

Flooding

Start: 7:44 am (WS)

End: 8:38 am (E)

ADCP file: MGB0207070742.adp

Very high speed currents throughout the column of sill

~~praise~~ ADCP file MGB0207070839.adp was a test - not real data.

→ CTD cast # C1089002 taken at end transect #1 & beginning of transect #2

• Transect #2 Profiles 1 – 115
start: 8:43 am (E)
end: 10:38 am (WS)
Flooding ADCP file: MGB0207070841.adp

profile 50 – starting to come up on sill

– hard to make any ground against current – were in sill region for long period time (~profile 50-90)
– Bottom track was Green, but I clicked 'use bottom track for track display' on profile 91 → don't think this influences data, but just display

→ CTD cast # C1089003 taken at end of transect #2 & beginning of tr. #3

• Transect #3 Profiles 1 – 40
start: 10:44 am (WS)
end: 11:24 am (E)
Flooding ADCP file: MGB0207071042.adp

→ CTD cast #C1089004 taken at end of transect #3 & beginning of transect #4

• Transect #4 Profiles 1 – 69
start: 11:29 am (E)
end: 12:37 pm (WS)
Ebbing ADCP file: MGB0207071127.adp

North Passage slack current 11:44 am

coming up on sill ~profile #32
down ~profile #50
profile # 61 ~35m on depth sounder → some type thermocline/ different H_2O mass?

very low speed currents even over sill

J. L. DARLING CORP. TACOMA, WA 98421 (206) 383-1714 · FAX (206) 383-1722

(Tr. #1-3)

on flooding transects, surface waters appeared to be going in the 'right' direction (East / Northeast)
many times all of the H_2O column moved in this same direction w/ strong velocity
Did not notice any 2-layer flows / strong flows going in opposite direction

→ CTD cast # C1089005 taken at end of transect #4, beginning of tr. #5

- **Transect #5** Profiles 1 – 76
  start: 12:43 pm (WS)
  end: ~~1~~13:58 (E)
  ADCP file: MGB020707 1241.adp

Ebbing

profile #10 – appear to be following a tidal slick (smooth water) straight for entrance from seaweed
low current velocity
profile # 19 west edge moraine
~ profile #26 currents picking up
#29 depth = 35m
strongest currents at surface & decrease gradually w/ depth
Profile 62-64 moving through (south side)
rip that extends from Moraine to mid bay toward Lester Point

→ CTD cast # C1089006 taken at end of transect #5 & before transect #6

Transect #6 Profiles 1-50

start: 14:11 (E)

end: 15:01 (WS)

Ebbing

ADCP File: MGB0207071409

Profile #7 → stronger currents on bottom 2/3 H_2O col.

strong rip evident on surface - swirling H_2O

eastward flow thr. most H_2O - bit stronger at depth

southward flow thr. H_2O column.

profile #12 - we're doing 6 knts. at idle

profile #18 — E/W component weaker, no pattern w/ depth - southward component extr. strong, particularly at surface, but almost on start w/ depth

leaning up on sill

profile #31 → went from lighter GUBA H_2O / darker Icy str. H_2O

SW of sill

profile #32 - strong westward at surface - decreases gradually / southward flow at surf & increases w/ depth

25 knts drifting

profile #44 - westward comp. strong throughout H_2O

southward increasing to strong at depth (50-60m)

#47-48 - patches of str. current dispersed throughout H_2O column → very patchy

→ CTD cast # C1089007 taken at end of transect #6, beginning of tr. #7

Transect #7 Profiles 1-86

start: 15:08 (WS)

end: 16:34 (E)

Ebbing

ADCP file: MGB0207071506.adp

profiles 10 →

Slightly stronger currents (westward) at depth (70-90m)

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< profile 10 = stronger currents appear to be ~~stronger~~ below 40m (to 100m) although still strong at surface

profile #16 – appears that we are in a back eddy from Pt. Cardus → rips to our ~~east~~ south ~50m away

Profile #26 – going thr. bay up over sill (~ profile #40) – strongest currents at surface, decrease w/depth

profile #56 – weaker E/W comp. Strong southward thr. out H_2O column (to 50m depth)

profile #65 – " "
swirling H_2O masses at surface

profile #79
surface currents weak
couple of patches of strong

→ CTD cast #C1089008 taken at end of Transect #7 & before

Transect #8 Profiles 1–56
start: 16:39 (E)
end: 17:35 (WS)
ADCP file: MGB020707 1637.adp

Ebbing
pp 3/8

Profile #11 – eastward comp. weak at surface, strengthening w/ depth strongest ~ 35–65m; southward comp. strengthening slightly w/ depth

→ CTD cast #C1089009 taken at end of Transect #8 & beginning of Transect #9

Transect #9 Profiles # 1 - ?? (end of file)
start: 17:41 (W)
end: 18:12 (E)
ADCP file: MGB0207071739.adp

profile # 1-6 - strong currents near bottom 60-100m
appears to be due to strong westward comp.
?? not sure - didn't see earlier profiles?
profile #24 - currents not that strong, but whole top column currents have northward & eastward component

---

18:12 - had to stop transect when Philip & Paul arrived Profiles # 1 - 26
start: 18:18 (mid-transect)
end: 18:44 (E)
ADCP file: MGB0207071817.adp

→ very little current

→ CTD cast # C1089010 taken at end of Transect #9

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Oceanography

Start of July 8th

July 8th, 2002

East Side of sill at Mouth of Glacier Bay (vicinity of Ft. Gustavus) Glacier Bay National Park, AK

→ CTD cast # C1090000 taken before trans. #10

North Passage slack current 7:38am

Transect #10 Profiles 1-38

start: 0753 (E)

end: 08:30 (ES)

Flooding

PP SCRN

ADCP file: MGB0207080751.adp

profile #9 - northward & eastward comp. increasing w/ depth

profile #22 - starting up the north side of sill → eastward comp. increasing at all depths

profile #28 - strong currents throughout due to eastward comp.

~profile 30 - stronger currents at surface

profile #36 - crossed rip due to sill - h

→ CTD cast # C1090001 taken after trans. #10, before #11

Transect #11 Profiles 1-62

start: 08:35 (ES)

end: 0933 (E)

Flooding

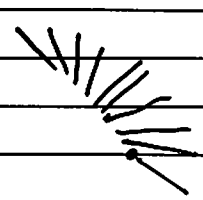
PP SCRN

ADCP file: MGB0207080833.adp

profile #6 – around the current rip ass. w/ sill
profile #12 – large aggregation of birds

profile #33 – northward current, some westward
#36 – westward increasing w/ depth

depth averaged vectors as go along transect from ES → E
currents flowing to SE, E, NE, N, NW



profile #39 – coming off sill – very strong bottom currents – strong westward comp., some northward
→ also strong thr. out H_2O column but strongest at depth
profile #49 – strong rip – strong Northward & westward comp. throughout H_2O
>50 – more northward than westward
compare velocities betw. ES & WS
55 – swirling water masses at surface still more norward

→ CTD cast #C1090002
taken at end of Transect #11 and beginning of Transect #12

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Transect # 12 profiles 1 - 69

Flooding

Start: 09:39 (ES)

end: 10:48 (ES)

PR screen

ADCP file: MGB0207080938.adp

profile #2, 3 strong rip

profile #3 velocity vectors went blank possibly due to high currents.

profile #25 - weaker currents - both north & westward components

profile #40 - heading up North side of sill / bird aggregations / seaweed accumulation

→ low currents

low currents over sill (even th. we are at mid/highest part of flooding current)

profile #52 - shallower sill

stronger southward & westward currents - increasing w/ depth

profile # 58 - crossed current rip

very strong southward component

no much E/W

↳ increasing w/ depth - not much current at surface

→ CTD CAST # C1090003

taken at the end of transect # 12 & at the beginning of transect # 13

TRANSECT # 13 PROFILES 1-53
START: 10:54 (ES)
END : 11:44 (E)

Flooding

ADCP FILE: MGB 020708105 1.adp

strong northwest (profile # 4,5)
v. strong at depth all the way thru (profiles #1-21)
in the vicinity of the sill

profile # 26, 27 v. strong @ depth ONLY
profile # 28 return to v. strong thru entire column
profile # ~33 - at least 39 - very strong
north & westward currents thr. out whole H_2O column
profile #46 - crossing swirling surface H_2O's

(C1090004 - bad cast, hose not on)
(TD) Cast # C1090005
taken end of T # 13 beginning T # 14

Transect # 14 profiles 1-63
Start: 11:54 (E)
End: 12:57 (ES)

ADCP file: MGB 0207081152

profile 8 - high currents on bottom going SW in previous profiles
NW current, slowing
low currents profiles 30-60, even over sill

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 1:04

→ CTD cast # C1090006
taken end of T# 14, before T# 15

TRANSECT #15 PROFILE 1-38
START: 13:04 (ES)
END: 13:43 (E)

Ebbing

PR SCRN

ADCP FILE: MGB0207081303.adp

profile 1-4 very little action
profile #33: moderate northward & westward currents (during an ebbing current??)
profile # 37 - strong rip - lots of seaweed & swirling H_2O masses

→ CTD cast # C1090007 taken after trans. #~~14~~ 15?, before tr. #~~15~~ 16?

Transect # 16 Profiles 1-72
start: 13:47 (E)
end: 14:57 (ES)

Ebbing

PR SCRN

ADCP file: MGB0207081345.adp

Profile #22: average vectors heading southwest
profile #37/#38 - crossing thr. sm. rip also starting up north side of sill

→ CTD cast # C1090008
between T# 16 and T# 17

there may be an extra .gps & .adp file - there is one labeled 1456 & 1457

Transect #17 profiles 1-52
Start 1458 (ES)
end 1550 (E)

ebbing

PR SCRN ADCP file: MGB0207081457.adp

profile #3 current shifts from SW further S.
profile #20-31 Current vectors shifts N and decrease
profile #38 Current shifts S.

→ CTD Cast # C 10900009 taken between T#17 and T#18.

TRANSECT #18 1-64

START: 1555 (E)
END: 1659 (ES)

ebbing

PR SCRN ADCP file: MGB0207081553.adp

Profile #12 & previous — stronger currents in bottom 2/3 H_2O column — mostly southward component.
profile #34 — started heading up north side of sill → currents decreased throughout H_2O column
profile #47 — appears to be tidal front foam line & slick

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profile #52 – strong currents on bottom (southward) → right on top of sill
> 52 – lower currents thr. out thyo col.

→ CTD cast # C1090010 taken after transect #18 & before tr. #19

Transect #19 1-29
start: 17:04 (ES)
end: 17:32 (E)

(PR SCAN) ADCP file: MGB0207081701

- Profile 4 & earlier – strong south east components at bottom
- profile #7 – tons of seaweed lower currents at all depths

Had to stop transect early b/c of winds blowing hard from SW

No CTD cast done after tr. #19

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H. Rieden
E. Kean

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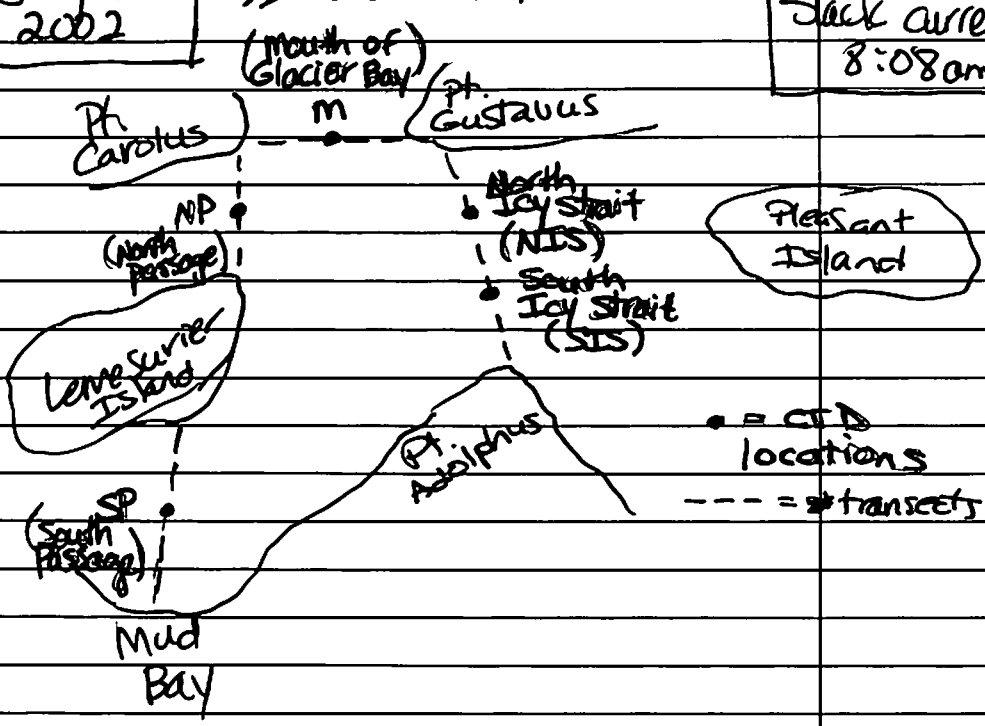
Oceanography

Start of July 9th

Mouth of Glacier Bay, Glacier Bay National Park, AK

July 9th 2002

North Passage Slack current = 8:08 am



Transect #20

Mark 50 start 8:24
end 9:33

Profiles # 1 – 69
(N. Lemesurier I.)
(Pt. Carolus)

Flooding

PR SLEN

ADCP file : MGB0207090822

~~CTD cast taken at station NP #C1091000~~

swirling / boiling H2O masses at surface

1st few profiles – extremely high currents particularly at surface – but str. throughout eastward strongest, also strong northward

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profile #15 - crossing tidal slick (appears that there was also one a few minutes back that we crossed still very strong currents throughout H_2O column, particularly at surface

profile #23 — profile #27
↳ started CTD sampling
↳ drifting during CTD sampling

→ CTD cast #C1091000 was at station NP (North Passage)

- profile #35 — much stronger northward component · still some eastward strong throughout H_2O column
- profile #49 - starting water masses at surface
- profile #52 - more swirling - still strong currents throughout all depths - more northward than eastward component
  ↳ all the way to end of transect
- profile #63 - eastward component has increased closer towards Pt. Carolus
- profile #66 — appear to be in eddy — currents slowed way down

Transect #21 Profiles #1–59
Start: 9:34 (Pt. Carolus)
end: 10:33 (Pt. Gustavus)

Flooding

ADCP file: MGB0207090932.adp

PR SURV

Profile #4 ±5 extremely strong rip →

— only showing up as surface currents

boat was spiming 180° circles w/ swirling
- profile #7 — very strong currents throughout all depths — stronger eastward than northward comp.

profile #20 — 25
drifting during CTD sampling

→ CTD cast # C1091001 taken at mouth GLBA stn (m)

- profile #23 lots of swirling H_2O masses
→ not showing up as str. currents
~ profile #20 — currents dropped way down (strong currents right by sill but dropped w/ distance away from sill)
- profile #34 — last few profiles — currents have switched to slight SE ward
~ profile #39 — currents started picking up throughout H_2O column — northward & westward
profile #54 — we've been putting against current (northwestward current) w/ tidal rip to our port (north side)
— crossed tidal rip on last profile

$\boxed{\text{Transect \# 22}}$ Profiles 1 — 108
start: 10:35 (Pt. Gustavus)
end: 12:22 (Pt. Adolphus)

Floating

ADCP file: MGB0207091033.adp

PR SCRN

profiles 1-17 → weak currents all depths — slight ~~[illegible]~~ NE ward components
pr. 22 we have been on west side of a distinct line separating H_2O masses →

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lighter green color on west side, darker green/blue on east side
profile #23 - skirting along edge of frontal boundary - running parallel
profile #25 crossed over boundary to east side/darker H_2O mass currents small - heading SE
profile #30 - frontal boundary still to right (west) side of boat @ < 25m away

profile # 37 - 43
drifting during CTD sampling

→ CTD cast # C1091002 taken at North Iey Strait (NIS) stn.

profile #51 - still little current - heading southeast
profile #58 - another front to the east of us (don't think we crossed back over the 1st one) - but it does appear that we're in lighter green H_2O

→ CTD cast # C1091003 taken at South Iey Strait (SIC) stn.

Bad cast - ← hose disconnected when brought up.

profile #66 - 72
drifting during CTD sampling

→ CTD cast # C1091004 taken at South Iey Strait (SIC) stn. to redo previous cast (#003)

a bit farther south than previous cast ←

Profile #75-83
drifting during CTD sampling

profile #85 - currents increasing slightly w/depth - southward direction

motoring over to Mud Bay to do South Passage transect

Transect #23
start: 13:34
stop: 14:21

Profiles # 1 - 47
(Mud Bay)
(S. LeMesurier)

PRN SRN

ADCP file: MGB0207091332.adp

~profile #13 - currents picking up - heading northward (still flooding?)
increasing currents w/ depth

North Passage slack current = 13:15

Profiles #25 - 30
- drifting during CTD cast

relatively moderate currents thr. most of H_2O column (but surface slow = low)
patches of high current scattered throughout most depths

profile #46 - currents decreased

appears that it was still flooding on this transect

→ CTD cast #C1091005 taken at S. Passage stn.

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Transect #24 Profile #1 - 47
start: 14:55 N. Lemesurier
end: 15:43 Pt. Carolus

PR SCRN ADCP file: MGB0207091453.adp

profile #3 - strong westward comp. particularly at surface
profile #16 - southward & westward, strongest at surface

mod. SW wind
profile #20-27 15:16 - 15:23
→ drifting during CTD cast # c1091006 at North Passage Stn.

profile #28 - went thru current rip currents have changed to south westward - strongest at surface, decrease w/ depth
profile #34 - currents decreased as moved out of rip → into back eddy
~profile #38 - current switches direction to NEward (in eddy?)
> profile #40 - currents decrease rapidly

Transect #25 Profiles #1 - 87
start: 1544 Pt. Carolus
end: 1711 Pt. Gustavus

PR SCRN ADCP file: MGB0207091542.adp
profile #1 - crossing tidal front - very strong swirling H_2O - spinning

boat around

- profile #10 – coming out of the larger rip section; however, surface still swirling about a bit
- profile #11 – at this boundary, start of deep very large currents throughout H2O column → southward & westward components

profiles 49-56 1634-1640
→ drifting for CTD cast # c1091007.
at mouth of GLBA station

profile #67 1651
tidal rip- water changes colors (green on W/brown E)
currents increase

profiles #70-74 1654-1658
loop-de-loop
"roundin' 'em up before we head in."

West side of mouth similar to flood this morning, but east side of mouth was not as strong

End of ADCP work

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Start of July 10th

Oceanography

Glacier Bay (throughout), Glacier Bay National Park, AK

Plan for sediment sampling w/ Shipek:

	1st Priority	Secondary
Arms:	#7, 11, 14, 17	#10, 19
Mid Bay:	#4, 22	#5, 13
Lower Bay:	#1	
Icy Strait:	#00	

We will try & take samples at all stations

Sediment samples taken:

- 7/10/02: #1 – 8
  stations: 04, 13, 14, 16, 17, 18, 19, 20
- 7/11/02: #9 – 18
  stations: 06, 07, 08, 09, 10, 11, 12, 21
  05, 22
- 7/12/02 #19 – 22
  stations: 03, 02, 01, 00

also silty/clayones that didn't work well

- It appears that the coarser grained/sandy locations are harder to get a sample (e.g., East Arm)
  → how ~~will~~ might this bias our analysis of representative particle sizes in H_2O column?

- Some samples had large rocks in them (marble → fist size)
  - are these included in analysis?
  - rocks will settle out rapidly - only in H_2O column short time
  - what is the cut-off size for particles?

If not included,

DURA Rite
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20020710

Sediment Sampling Log

Sediment Sample #	Station # / Location	Bottom depth	Date / Time
#1 (2 jars)	04 (N. Marble N. Drake)	180m	20020710 1405
	Sample looked good - grey silt/clay w/ some black streaks		
#2 (1/5 - 1/4 jar)	13 (SE Tlingit NW Sturgess)	~150 m	20020710 1515
	~~1st~~ 1st sample - nothing 2nd sample - 1/5 - 1/4 jar } seemed to go down OK - not sure what happened!?		
#3 (1/5 - 1/4 jar)	14 (Muir Sill)	87m	20020710 1640
	1st - drop - didn't completely close 2nd - sandy w/ clams 3rd - more silty/clay		
#4 1/4 jar	16 (E. Hunter Cove)	313m	20020710 1750
	1st drop - silty/clay - just didn't get much.		
#5 2 jars	17 (E. of West Dahl Pt)	190m	20020710 1855
	1st drop - lots of mud!		
#6 1/5 jar	18 S. Riggs / NW McBride	210m	20020710 2005
	1st drop - not much		

#7 19 235m 20020710
2 Jars Muir Inlet 2125
1st drop - lots!

#8 20 165m 20020710
0 jars Head muir
1st drop - didn't close
didn't do another
→ No sample ←

20020711

#9 06 300m 20020711
2 jars E Hugh Miller 0900
1st drop - tiny bit mud
2nd drop - full
grey clay/silt w/ some type of old
plant material - looked like thin seagrass

#10 07 435m 20020711
2 jars N. Blue mouse 1005
W. Tidal Inlet
1st drop - lots of mud
grey silty/clay - small seastar

#11 08 427m 20020711
1/5 jar S. of Rendu Inlet 1145
1st drop - tiny bit of sed.
grey silty/clay
didn't do another

#12 09 377m 20020711
(1/5 jar) S. Russel Island 1240
1st drop - tiny bit of sed.
grey silty/clay
didn't do another

#13 (2 jars) 10 36lm 20020711
E of Russell I. 1410
1st drop - good amt. sed.
grey silty - bunch of marble-sized rocks, 1 fist-sized rock.

#14 (2/3 jar) 11 338m 20020711
Tarr Inlet 1530
1st drop - little sed.
2nd drop - ~~lots~~ little sed.
grey silty/clay

#15 (2 jars) 12 280m 20020711
Head of Tarr Inlet 1645
1st drop
2nd drop - lots mud w/ plum/marble sized rocks, 1 fist sized rock

#16 (2 jars) 21 224m 20020711
Marjone/Grand Pacific 1735
1st drop - coarser sed.
grey w/ a lot of black
not as "goopy" as others

#17 (2 jars) #5 36dem 20020711
Betw. N. Drake & SW Tlingit Pt. 2015 ~~#15~~
1st drop - lots mud
very compact grey slt/clay
more like clay - couple of sticks/ ~~seaweed~~ vegetation in it

#18 (2 jars) #22 155m 20020711
Entrance Geike 2300
1st drop - good amt. sed.
grey silty/clay
1 cucumber/worm ?

#19 (1/6 Jar) #03 112m 06:45
S.E. Willowby IS 20020712
(poor sample amount)
1st drop coarse sediment,
small pebbles, very small amount
2nd drop " "

#20 (1/8 jar + big rock) #02 93m 20020712
Sitakaday 740
1st - sandy grains
2nd - sm. amt. sandy grains
3rd - eggplant-sized rock + pebbles

#21 (1/2 - 2/3 jar) #01 62m 20020712
Mouth Glacier Bay 0830
1st drop - didn't close
2nd - some coarse grains
3rd - some coarse sandy grains
4th - more med. size pebbles/rocks
(marble sized)

#22 (1 jar) #00 53m 20020712
Icy Strait 0915
1st drop - not much
2nd - few sandy grains
3rd - " " " some pebbles
4th - decent amount of small
marble-size rocks / sandy coarse
grains

7/7/02 Sunday

Drifter Frequencies

		Small reciever	reciever #2
North side -	Drifter 1	151.50	151.50
south side -	Drifter 2	151.41(35)	151.402
middle -	Drifter 4		

(151.082 = set at)

* Don't forget to change the name of .adp files from 20020706 that were named SNE.... (2 files?) Be aware that those exist

or maybe can't change name ?

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(1)

Oceanography

North Passage, W. end of Lemisure
Glacier Bay National Park, Alaska

July 6 2002

First drifter experiment. Deployed drifter:

~~2 X. - 151.41. (-35)~~
~~1 X. - 141.500 (0) (0) (-35)~~

Flood tide starting 6:39

DRIFTER 1. IN @ 6:51 AM
DRIFTER 2. IN @ 6:53 AM

~~FREQUENCIES~~
~~SMALL RECEIVER~~ ~~RECEIVER #2~~
~~DRIFTER 1 141.50~~ ~~141.51~~

FREQUENCIES		SMALL RECEIVER	RECEIVER #2
GPS #4 (John)	DRIFTER 1	~~8~~ 151.50	151.50
GPS #2 (Paul)	DRIFTER 2	151.41 (35)	151.402

Doppler - 08:10 started
Flood started at 06:39

File name: SNE02070608/2.ADP

Profile 130 tide change
Profile 1-130 Deal layer flow surface ~~[illegible]~~ west and >100 (to 40m) flowing east.

July 7 North Passage ~~[illegible]~~ middle of Lemisure Island 58°20.263, 136°04.325. Glacier Bay Alaska

07:16 Deployed #4 151.082
WPT 49 Tuned @ #5
07:44 WPT 52 DRIfter #4
07:50 WPT 54
08:09 Deployed ~~#3~~ #2 151.402 Tuned @ -1
#1 WPT 55 08:20
#4 WPT 57 08:25

08:36 Deployed #1 151.500 Tuned @ -1
WPT 58 By Lem3rd

08:59 WPT 59 #2 151.402
09:24 WPT 60 #4 151.082 Mid channel
09:51 WPT 61 #1 151.500 Tuned to
10:24 WPT 62 #2 151.402 Paul
10:37 WPT 63 #4 151.082
11:03 WPT 64 #1 Edge of Long current Interface
11:29 WPT 65 #4 Zone Caught in middle, turning,
12:10 WPT 66 #4 pulled
12:32 WPT 67-68 #2

12:45 pulled #2 this drifter nearly lost GPS 2 in it
13:44 WPT #69 #1
14:19 WPT #70 #1
16:52 WPT #71 #1 pulled

Did 2 CTD Casts

Waypoints taken??

17:35 WPT #74 #1 Pulled
Had GPS #2 in it.!

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Oceanography

JULY 8 - Pt Gustavus to Pt Adolphus
Glacier Bay N.P., Alaska

Second Drifter Experiment.
Deployed Drifter:

Flood tide starting time: 07:38
Lat 58° 17.718'N Long 135° 49.231'W
Drifter #4 151.082 Deployed at 07:40 - Tuned @ 5 on WPT

Drifter #2 151.402 Deployed 07:55 WPT 75 Tuned @ 8
Lat 58° 19.855'N Long 135° 50.858'W

Drifter #1 151.500 Tuned @ 5
Deployed @ 08:07 WPT 76

0850 Drifter #4 WPT 77
Lodged in large kelp bed
Rolled with Zodiac

0933 Drifter #4 Redeployed WPT 78

1006 Drifter #2 WPT 79

1021 Drifter #1 WPT 80
In current interface zone

11:41 Drifter #1 WPT 81
Spinning in current interface zone

12:06 Drifter #2 WPT 82

#1 1500-5
#2 1402-8
#4 1082-5

12:30 Drifter #4 WPT #83 pulled
1235 GPS turned off, Relocated to
ORIGINAL LOCATION, GPS Cycle changed to 9 1"
1246 Drifter #4 Redeployed WPT #84
GPS Cycle changed to 9 1"
0107 DRIFTER #2 WPT #85 - Pulled
0109 GPS turned off, Relocated
TO ORIGINAL LOCATION.
0119 DRIFTER #2 Redeployed WPT #86
GPS cycle changed to 9 1"
0158 DRIFTER #1 WPT #87
Pulled, GPS Removed found off
DIFFICULTY ACQUIRING SIGNAL,
SIGNAL obtained Redeployed @ 0215
1620
DRIFTER #1 WPT #88
1717 DRIFTER #2 WPT #90
Pulled, Rough Seas
1725 GPS turned off (#2)
1855 #4 pulled #91 WPT
1952 #1 pulled WPT 92
GPS found off #1 antenna

93

4. 1082-5
2. 1402-8
1. 1500-5

J. L. DARLING CORP. TACOMA, WA 98421
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P. Hooge
ET AL.

5

OCEANOGRAPHY

JULY 9, 2002

LEMESCHEFF TO MUD BAY / PT GUSTAVUS TO PT ADOLPHUS
GLACIER BAY N.P., ALASKA

THIRD DRIFTER EXPERIMENT
FLOOD TIDE STARTING TIME 08:08
START: WAYPOINT 93
N 58° 14.344 W 136° 02.711
8:12 DRIFTER #1 DEPLOYED WPT 94
TUNED TO -1
8:26 DRIFTER #2 DEPLOYED WPT 95
TUNED TO 3.5
N 58.15.555 W 136.02.753

0912 DRIFTER #4 DEPLOYED WPT 96
PULLED Ø SIGNAL
0925 DRIFTER #4 REDEPLOYED WPT 97
TUNED @ 1
N 58° 21.141 W 135°.51.417

0959 DRIFTER #2 WPT 98

1005 DRIFTER #1 WPT 99

1029 DRIFTER #4 WPT 100
1105 DRIFTER #4 WPT 101 IN CURRENT LINE

1158 DRIFTER #1 WPT 102

1227 DRIFTER #2 WPT 103
1235 DRIFTER #4 WPT 104

4-108-1
2-140-35
3-150-1

12:53 Drifter #2 WPT 105
13:08 Drifter #1 WPT 106
13:40 Drifter #2 WPT 107
(IN CURRENT INTERFACE)
14:53 Drifter #4 WPT 108
EAST SIDE of CURRENT INTERFACE ZONE
15:37 Drifter #2 WPT 109
Pulled GPS off @ 1540
16:29 Drifter #1 WPT 110
Pulled GPS off @ 1632
16:55 Drifter #4 WPT 111
IN CURRENT INTERFACE ZONE
GPS off @ 1656

4-100-1
2-140-3.5
1-150-1

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OCEANOGRAPHY
July 10, 2001

OCEANOGRAPHIC SAMPLING
Between Icy Strait & Whidbey Island

J. L. DARLING CORP. TACOMA, WA 98421
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OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J. de la Bruere, H. [redacted] Rieden, E. Kean Logbook Page: 11

Cast Name: C1 0 9 1 0 0 4 (CTD id / Dump # / Cast #)

Date: 2002 07 09 (Y Y Y Y M M D D)

Time CTD on: 11:49

Time GPS position: 11:47

Lat: (decimal degrees) 58.18576 → 58.3096

Lon: (decimal degrees) 135.49946 → -135.8324

Depth: (m) 95

CTD dropped to (m): 80

Station# — **WP#** 055

Location: South Icy Strait

Comments: This was a re-do of the previals bad cast

Tide High Height: 3.19m **Low height:** -0.49m **Time since high:** -123 **Time since low:** +268

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name: C1 0 9 1 0 0 5 (CTD id / Dump # / Cast #)

Date: 2002 07 09 (Y Y Y Y M M D D)

Time CTD on: 13:57

Time GPS position: 13:55

Lat: (decimal degrees) 58.14998 → 58.2500

Lon: (decimal degrees) 136.01353 → -136.0226

Depth: (m) 81

CTD dropped to (m): 70

Station# — **WP#** 056

Location: South Passage

Comments: Not switched off, possibly includes C1091006

Tide High Height: 3.19m **Low height:** 1.02m **Time since high:** +5 **Time since low:** -308

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

Cast Name: C1 0 9 1 0 0 6 (CTD id / Dump # / Cast #)

Date: 2002 07 09 (Y Y Y Y M M D D)

Time CTD on: 15:16

Time GPS position: 15:15

Lat: (decimal degrees) 58.21063 → 58.35105

Lon: (decimal degrees) 136.02549 → -136.0009

Depth: (m) 51

CTD dropped to (m): 40

Station# — **WP#** 057

Location: North Passage

Comments: included in C1091005 ??

Tide High Height: 3.19m **Low height:** 1.02m **Time since high:** +84 (1352) **Time since low:** -229 (1905)

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

36 casts taken for ADCP/drifter work

It appears that 200207 Oceanographic Samples that were taken on Gyre were taken in NAD27

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: LJ de La Bruere, LL Etherington, EA Kean, HS Rieden Logbook Page: 12

Cast Name:	Date:	Time CTD on:
C1091007 (CTD id / Dump # / Cast #)	20020709 (Y Y Y Y M M D D)	16:35
Lat: (decimal degrees) 58.21795 (58.3633)	Lon: (decimal degrees) -135.58197 (-135.9699)	Time GPS position: 16:34

Depth: (m) 73 | CTD dropped to (m): 60 | Station# | WP# 059

Comments: Skip waypoint 058 (had to move due to cruise ship)

Location: Mouth of GLBA

Tide High Height: 3.11 | Low height: 1.02m (202) | Time since high: +163 (1352) | Time since low: -150 (1405)

Sampling: Oceanography Sonic Bottom Dive Other: ADCP

7/9/02 uploaded

Cast Name:	Date:	Time CTD on:
C1092000 (CTD id / Dump # / Cast #)	20020710 (Y Y Y Y M M D D)	1349
Lat: (decimal degrees) 58.39074 (58.6512)	Lon: (decimal degrees) -136.06788 (-136.1131)	Time GPS position: 1347

Depth: (m) 288 | CTD dropped to (m): 270 | Station# 004 | WP# 060

Comments: ~190M — had to stop line going down due to boat/water conditions → probably there for ~30 sec.

Location: N. Drake N. Marble

Tide High Height: 4.54m | Low height: -0.87m | Time since high: -64 | Time since low: +213

Sampling: Oceanography Sonic Bottom Dive Other: (Took Sediment Sample) (#1)

Cast Name:	Date:	Time CTD on:
C1092001 (CTD id / Dump # / Cast #)	20020710 (Y Y Y Y M M D D)	15:30
Lat: (decimal degrees) 58.4377 (58.7330)	Lon: (decimal degrees) -136.06728 (-136.1121)	Time GPS position: 15:28

Depth: (m) 150m | CTD dropped to (m): 130m | Station# 013 | WP# 061

Comments: Took sediment sample (#2)

Location: SE Tlingit NW Sturgis

Tide High Height: 4.69m | Low height: 0.93m | Time since high: +32 | Time since low: -31

Sampling: Oceanography Sonic Bottom Dive Other:

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: JdelaBruere, L. Etherington, E. Kean Logbook Page: 13

Cast Name: C 1 0 9 2 0 0 2 (CTD id / Dump # / Cast #)

Date: 2002071 6 (Y Y Y Y M M D D)

Time CTD on: 16:19

Time GPS position: 16:17

Lat: (decimal degrees) 58.47.53.2 → 58.7922

Lon: (decimal degrees) -136.06369 → -136.1062

Depth: (m) 87

CTD dropped to (m): 70

Station# 0 1 4 **WP#** 0 6 2

Location: Muir Sill

Comments: Sediment sample taken (#3)

Tide High Height: 4.69m **Low height:** 0.93m **Time since high:** +81 **Time since low:** -262

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C 1 0 9 2 0 0 3 (CTD id / Dump # / Cast #)

Date: 20020716 (Y Y Y Y M M D D)

Time CTD on: 17:58

Time GPS position: 17:56

Lat: (decimal degrees) 58.53776 → 58.8963

Lon: (decimal degrees) -136.05492 → -136.0915

Depth: (m) 313

CTD dropped to (m): 290

Station# 0 1 6 **WP#** 0 6 3

Location: E. of Hunter Cove

Comments: Sediment Sample taken (#4)

Tide High Height: 4.69m **Low height:** 0.93m **Time since high:** +180 **Time since low:** -163

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C 1 0 9 2 0 0 4 (CTD id / Dump # / Cast #)

Date: 20020710 (Y Y Y Y M M D D)

Time CTD on: 18:55

Time GPS position: 18:53

Lat: (decimal degrees) 58.585 23 → 58.9754

Lon: (decimal degrees) -136.08096 → -136.1349

Depth: (m) 157

CTD dropped to (m): 140

Station# 0 1 7 **WP#** 0 6 4

Location: E. of Westdahl Pt.

Comments: Sediment sample taken (#5)

Tide High Height: 4.69m **Low height:** 0.93m **Time since high:** +237 **Time since low:** -106

Sampling: Oceanography Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: JdelaBruere, L. Etherington, E. Kean Logbook Page: 14

Cast Name:	Date:	Time CTD on:
C 1092005 (CTD id / Dump # / Cast #)	20020710 (Y Y Y Y M M D D)	20:11
Lat: (decimal degrees)	**Lon: (decimal degrees)**	**Time GPS position:**
59.03026 (59.0504)	-136.10990 (-136.1832)	20:09

Depth: (m) 210 CTD dropped to (m): 190 Station# 018 WP# 065

Comments: Sediment sample #6 taken Location: S. Riggs/NW McBride

Tide High Height: 4.69m Low height: 0.93cm Time since high: +313 Time since low: -30

Sampling: Oceanography (circled) Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C 1092006 (CTD id / Dump # / Cast #)	20020710 (Y Y Y Y M M D D)	21:03
Lat: (decimal degrees)	**Lon: (decimal degrees)**	**Time GPS position:**
59.04323 (59.0721)	-136.20089 (-136.3348)	21:01

Depth: (m) 201 CTD dropped to (m): 190 Station# 019 WP# 066

Comments: Sediment Sample #7 Location: Muir Inlet

Tide High Height: 5.40m Low height: .93m Time since high: -329 Time since low: +22

Sampling: Oceanography (circled) Sonic Bottom Dive Other :

Cast Name:	Date:	Time CTD on:
C 1092007 (CTD id / Dump # / Cast #)	20020710 (Y Y Y Y M M D D)	21:47
Lat: (decimal degrees)	**Lon: (decimal degrees)**	**Time GPS position:**
59.05179 (59.0863)	-136.22145 (-136.3691)	21:45

Depth: (m) 168 CTD dropped to (m): 150 Station# 020 WP# 067

Comments: Sediment sample #8 → No sample Location: Head of Muir

Tide High Height: 5.40 Low height: .93m Time since high: -285 Time since low: +66

Sampling: Oceanography (circled) Sonic Bottom Dive Other :

Uploaded 7/10

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: JdelaBruere, L.Ethering ton, E. Kean Logbook Page: 15

Cast Name: d 0 9 4 0 0 0 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 08 : 30

Lat: (decimal degrees) 58 . 4 5.575 → 58.7596

Lon: (decimal degrees) -136 . 20.997 → -136.3500

Time GPS position: 08 : 28

Depth: (m) 288

CTD dropped to (m): 270

Station# 006 **WP#** 068

Comments: sediment sample #9 taken

Location: E. Hugh Miller

Tide High Height: 5.54m **Low height:** -1.02m **Time since high:** +365 **Time since low:** -42

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: d 0 9 4 0 0 1 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 10 : 19

Lat: (decimal degrees) 58 . 4 8.709 → 58.8118

Lon: (decimal degrees) -136 . 28248 → -136.4708

Time GPS position: 10 : 05

Depth: (m) 435m

CTD dropped to (m): 300m

Station# 007 **WP#** 069

Comments: sediment plume @ start of cast sediment sample #10 from sed. grab. wash

Location: N. Blue Mouse, W. Tidal Inlet

Tide High Height: 4.85m **Low height:** -1.02m **Time since high:** -318 **Time since low:** +61

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: d 0 9 4 0 0 2 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 11 : 19

Lat: (decimal degrees) 58 . 5 1. 9 2 3 → 58.8654

Lon: (decimal degrees) -136 . 35497 → -136.5916

Time GPS position: 11 : 13 07

Depth: (m) 426

CTD dropped to (m): 300

Station# 008 **WP#** 070

Comments: Sediment sample #11 CTD at surface for 1.5 min.

Location: S. of Rendu Inlet

Tide High Height: 4.85m **Low height:** -1.02m **Time since high:** -258 **Time since low:** +121

Sampling: Oceanography Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J. de la Bruere, L. Etherington, E. Kegan Logbook Page: 16

Cast Name: C 1 0 9 4 0 0 3 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 12:44

Time GPS position: 12:40

Lat: (decimal degrees) 58.538 78 → 58.8980

Lon: (decimal degrees) -136.44.107 → -136.7351

Depth: (m) 377

CTD dropped to (m): 300

Station# 0 0 9 **WP#** 0 7 1

Location: S of Russell I.

Comments: Sediment sample # 12

Tide High Height: 4.85m **Low height:** -1.02m **Time since high:** -173 **Time since low:** +206

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C 1 0 9 4 0 0 4 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 13:51

Time GPS position: 13:49

Lat: (decimal degrees) 58.53974 → 58.8996

Lon: (decimal degrees) -136.50296 → -136.8383

Depth: (m) 377

CTD dropped to (m): 300

Station# 0 1 0 **WP#** 0 7 2

Location: E. Russel Island

Comments: Sediment sample #13

Tide High Height: 4.85m **Low height:** -1.02m **Time since high:** -106 **Time since low:** +273

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C 1 0 9 4 0 0 5 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 15:38

Time GPS position: 15:35

Lat: (decimal degrees) 58.56.328 → 58.9721

Lon: (decimal degrees) -136.54.894 → -136.9149

Depth: (m) 338

CTD dropped to (m): 300

Station# 0 1 1 **WP#** 0 7 3

Location: Tarr Inlet

Comments: sediment sample # 14. 0.81m

Tide High Height: 4.85m **Low height:** [illegible] **Time since high:** +1 **Time since low:** -344

Sampling: (Oceanography) Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: J. de la Bruere, L. Etherington, E. Kean Logbook Page: 17

Cast Name: C 1 0 9 4 0 0 6 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 16:44

Lat: (decimal degrees) 59.0208 → 59.0338

Lon: (decimal degrees) +137.0108 → −137.0170

Time GPS position: 16:41

Depth: (m) 280

CTD dropped to (m): 270

Station# 012074

WP#

Location: Head of Tarr Inlet

Comments: sediment sample # 15

Tide High Height: 4.85m Low height: 0.81m Time since high: +67 Time since low: -278

Sampling: (Oceanography) Sonic Bottom Dive Other :

Cast Name: C 1 0 9 4 0 0 7 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 17:34

Lat: (decimal degrees) 59.0208 → 59.0481

Lon: (decimal degrees) +137.0308 → −137.0510

Time GPS position: 17:3[illegible]

Depth: (m) 224m

CTD dropped to (m): 210m

Station# 021

WP# 075

Location: Marjorie/Grand [illegible] Pacific

Comments: A bit off station due to ice in area (~100m) sed sample #14

Tide High Height: 4.85m Low height: 0.81m Time since high: +121 Time since low: -224

Sampling: (Oceanography) Sonic Bottom Dive Other :

up boat 99 7/11

Cast Name: C (CTD id / Dump # / Cast #)

Date: (Y Y Y Y M M D D)

Time CTD on: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station#

WP#

Location:

Comments:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name:______________________ Logbook Page: ________

Cast Name: C
CTD id Dump # Cast #

Date:
Y Y Y Y M M D D

Time CTD on: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C
CTD id Dump # Cast #

Date:
Y Y Y Y M M D D

Time CTD on: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

Cast Name: C
CTD id Dump # Cast #

Date:
Y Y Y Y M M D D

Time CTD on: :

Lat: (decimal degrees) .

Lon: (decimal degrees) .

Time GPS position: :

Depth: (m)

CTD dropped to (m):

Station# WP#

Comments:

Location:

Tide High Height: Low height: Time since high: Time since low:

Sampling: Oceanography Sonic Bottom Dive Other :

July Oceanography
2002
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OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

Name: HSR / PNH / PJH Logbook Page: 1

Cast Name: C 2 0 0 9 3 0 2 (CTD id / Dump # / Cast #)
Date: 2 0 0 2 0 7 1 0 (Y Y Y Y M M D D)
Time CTD on: 0 8 : 4 8
Time GPS position: 0 8 : 4 8
Lat: (decimal degrees) 5 8 . 3 2 3 2 3 ~~58°19.394'~~
Lon: (decimal degrees) - 1 3 5 . 8 7 0 5 0 ~~135°52.230'~~
Depth: (m) 58 m
CTD dropped to (m): 50 m
Station# 0 0 0 **WP#** 1 1 2
Location: Icy Strait
Comments: 2 previous casts from 7 July (drifters)
(1440) (0812)
Tide High Height: 4.11m **Low height:** -.9m **Time since high:** -352 min **Time since low:** +36 min
Sampling: (Oceanography) Sonic Bottom Dive Other: Bartlett Tides

---

Cast Name: C 2 0 0 9 3 0 3 (CTD id / Dump # / Cast #)
Date: 2 0 0 2 0 7 1 0 (Y Y Y Y M M D D)
Time CTD on: 0 9 : 3 7
Time GPS position: 0 9 : 3 7
Lat: (decimal degrees) 5 8 . 4 1 1 1 8 ~~58°24.691'~~
Lon: (decimal degrees) - 1 3 5 . 9 9 4 9 7 ~~135°59.670'~~
Depth: (m) 59 m
CTD dropped to (m): 50 m
Station# 0 0 1 **WP#** 1 1 3
Location: Mouth of GLBA
Comments:
(1440) (0812)
Tide High Height: 4.11m **Low height:** -.9m **Time since high:** -317 min **Time since low:** 71 min
Sampling: (Oceanography) Sonic Bottom Dive Other: Bartlett Tides

---

Cast Name: C 2 0 0 9 3 0 4 (CTD id / Dump # / Cast #)
Date: 2 0 0 2 0 7 1 0 (Y Y Y Y M M D D)
Time CTD on: 1 0 : 1 0
Time GPS position: 1 0 : 1 0
Lat: (decimal degrees) 5 8 . 4 9 0 8 2 58° 29. 449'
Lon: (decimal degrees) - 1 3 6 . 0 5 0 4 0 136° 03. 024'
Depth: (m) 83 m
CTD dropped to (m): 70 m
Station# 0 0 2 **WP#** 1 1 4
Location: Sitakaday
Comments:
(1440) (0812)
Tide High Height: 4.11m **Low height:** -.9m **Time since high:** -284 min **Time since low:** 104 min
Sampling: (Oceanography) Sonic Bottom Dive Other: Bartlett Tides

July 2002 Oceanography

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OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HSR | PNH [redacted]

Logbook Page: 2

Cast Name: C2009305 (CTD id / Dump # / Cast #)	Date: 20020711 (Y Y Y Y M M D D)	Time CTD on: 09:28
Lat: (decimal degrees) 58.57033 ~~58° 34.220'~~	Lon: (decimal degrees) -136.06472 ~~136° 03.883'~~	Time GPS position: 09:28
Depth: (m) 105m	CTD dropped to (m): 90m	Station# 003 / WP# 115
Comments:		Location: SE of Willoughby
Tide High Height: 4.70m	Low height: -1.02m	Time since high: -365 min (1533) / Time since low: 11 min (0917)
Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tide		

Cast Name: C2009306 (CTD id / Dump # / Cast #)	Date: 20020711 (Y Y Y Y M M D D)	Time CTD on: 10:49
Lat: (decimal degrees) 58.59813 ~~58° 35.888'~~	Lon: (decimal degrees) -136.50687 ~~136° 30.412'~~	Time GPS position: 10:49
Depth: (m) 65m	CTD dropped to (m): 50m	Station# 023 / WP# 116
Comments: potentially a bad cast pump not plugged in		Location: Head of Geike
Tide High Height: 4.70m	Low height: -1.02m	Time since high: -284 min (1533) / Time since low: 92 min (0917)
Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tide		

Cast Name: C2009307 (CTD id / Dump # / Cast #)	Date: 20020711 (Y Y Y Y M M D D)	Time CTD on: 10:55
Lat: (decimal degrees) 58.59832 ~~58° 35.899'~~	Lon: (decimal degrees) -136.50685 ~~136° 30.411'~~	Time GPS position: 10:55
Depth: (m) 65m	CTD dropped to (m): 50m	Station# 023 / WP# 117
Comments: repeat [redacted] of cast 06 CTD left on?		Location: Head of Geike
Tide High Height: 4.70m	Low height: -1.02m	Time since high: -278 min (1533) / Time since low: 98 min (0917)
Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tide		

July 2002 Oceanography

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HSR | PNH

Logbook Page: 3

Cast Name: C 2 0 0 9 3 0 8 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 11:25

Lat: (decimal degrees) 58.65867 ~~58° 39.412'~~

Lon: (decimal degrees) -136.36815 ~~136° 22.089'~~

Time GPS position: 11:26

Depth: (m) 153m

CTD dropped to (m): 140 m

Station# 022 **WP#** 118

Comments: CTD found on.

Location: Mouth of Geike

Tide High Height: 4.70m Low height: -1.02m (1533) Time since high: -248 min (0917) Time since low: 128 min

Sampling: (Oceanography) Sonic Bottom Dive Other: Willoughby Tide

---

Cast Name: C 2 0 0 9 3 0 9 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 11:48

Lat: (decimal degrees) 58.70427 ~~58° 42.256'~~

Lon: (decimal degrees) -136.23183 ~~136° 13.910'~~

Time GPS position: 11:48

Depth: (m) 366m?

CTD dropped to (m): 300 m

Station# 005 **WP#** 119

Comments: depth sound out of range

Location: Between N. Drake and SW Tlingit Point

Tide High Height: 4.70m Low height: -1.02m (1533) Time since high: -225 min (0917) Time since low: 151 min

Sampling: (Oceanography) Sonic Bottom Dive Other: Willoughby Tide

---

Cast Name: C 2 0 0 9 3 1 0 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 0 7 1 1 (Y Y Y Y M M D D)

Time CTD on: 12:40

Lat: (decimal degrees) 58.5724 ~~58° 34.344'~~

Lon: (decimal degrees) -136.06517 ~~136° 03.910'~~

Time GPS position: 12:40

Depth: (m) 113m

CTD dropped to (m): 100 m

Station# 003 **WP#** 120

Comments:

Location: SE of Willoughby

Tide High Height: 4.70m Low height: -1.02m (1533) Time since high: -173 min (0917) Time since low: 208 min

Sampling: (Oceanography) Sonic Bottom Dive Other: Willoughby Tide

July 2002 Oceanography
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OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HSR / PNH

Logbook Page: 4

Cast Name: C2009311 (CTD id / Dump # / Cast #)	Date: 20020711 (Y Y Y Y M M D D)	Time CTD on: 13:16
Lat: (decimal degrees) ~58.49041	Lon: (decimal degrees) ~-136.04994	Time GPS position:
Depth: (m) 81m	CTD dropped to (m): 70m	Station# 002 / WP#
Comments: PLGR not working, estimated location using charts.		Location: Sitakaday
Tide High Height: 4.28m	Low height: -1.05m	Time since high: -124min (1520) / Time since low: 263min (0853)
Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tide		

should have been the slack high sampling?

Cast Name: C2009312 (CTD id / Dump # / Cast #)	Date: 20020711 (Y Y Y Y M M D D)	Time CTD on: 13:40
Lat: (decimal degrees) 58.4148 ~~58°24.888'~~	Lon: (decimal degrees) -135.9949 ~~135°59.694'~~	Time GPS position: 13:40
Depth: (m) 62m	CTD dropped to (m): 50m	Station# 001 / WP# 121
Comments:		Location: Mouth of GLBA
Tide High Height: 4.28m	Low height: -1.05m	Time since high: -100min (1520) / Time since low: 287min (0853)
Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tide		

Cast Name: (CTD id / Dump # / Cast #)	Date: (Y Y Y Y M M D D)	Time CTD on: :
Lat: (decimal degrees) .	Lon: (decimal degrees) .	Time GPS position: :
Depth: (m)	CTD dropped to (m):	Station# / WP#
Comments:		Location:
Tide High Height:	Low height:	Time since high: / Time since low:
Sampling: Oceanography Sonic Bottom Dive Other:		

Waypoint Datum: NAD83

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: HSR/LLE on Sigma-t

Logbook Page: 1

Cast Name: C1009700 (CTD id / Dump # / Cast #)	Date: 20020809 (Y Y Y Y M M D D)	Time CTD on: 10:13
Lat: (decimal degrees) 58.32650 ~~58° 19.590'~~	Lon: (decimal degrees) -135.87533 ~~-135° 52.520'~~	Time GPS position: 10:10
Depth: (m) 53m	CTD dropped to (m): 40m	Station# 000 / WP# 025
Comments: flooding		Location: Icy Strait
Tide High Height: 4.65	Low height: -1.17m	Time since high: -287 min (1457) / Time since low: 97 min (0833)
Sampling: Oceanography Sonic Bottom Dive Other :		

Cast Name: C1009701 (CTD id / Dump # / Cast #)	Date: 20020809 (Y Y Y Y M M D D)	Time CTD on: 11:21
Lat: (decimal degrees) --.-----	Lon: (decimal degrees) ---.-----	Time GPS position: --:--
Depth: (m) 63m	CTD dropped to (m): 50m	Station# 001 / WP# ---
Comments: PLGR not working - estimated station location lots of pauses on way down flooding BADCAST		Location: Mouth of Glacier Bay
Tide High Height: 4.65	Low height: -1.17	Time since high: -216 min (1457) / Time since low: 168 min (0833)
Sampling: Oceanography Sonic Bottom Dive Other :		Bartlett Tides

Cast Name: C1009702 (CTD id / Dump # / Cast #)	Date: 20020809 (Y Y Y Y M M D D)	Time CTD on: 11:27
Lat: (decimal degrees) --.-----	Lon: (decimal degrees) ---.-----	Time GPS position: --:--
Depth: (m) 63	CTD dropped to (m): 50	Station# 001 / WP# ---
Comments: repeat cast - 1 pause on way down toward beginning - PLGR not working estimated station location flooding		Location: Mouth of Glacier Bay
Tide High Height: 4.65	Low height: -1.17	Time since high: -210 min (1457) / Time since low: 174 min (0833)
Sampling: Oceanography Sonic Bottom Dive Other :		Bartlett Tides

Waypoint Datum: NAD83

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Name: LLE/HSR on Sigma-t

Logbook Page: 2

Cast Name:	Date:	Time CTD on:
C1009703 (CTD id / Dump # / Cast #)	20020809 (Y Y Y Y M M D D)	11:53

Lat: (decimal degrees)	Lon: (decimal degrees)	Time GPS position:
58.56718 ~~est. 58° 34.031'~~	-136.06338 ~~est -136° 03.803~~	--:--

Depth: (m) 92m

CTD dropped to (m): 80m

Station#	WP#
002	---

Comments: PLGR not working, estimated used chart flooding peak

Location: Sitakaday Narrows

Tide High Height: 4.65 Low height: -1.17 Time since high: 1457 -184 min Time since low: 0833 200 min

Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tide

Cast Name:	Date:	Time CTD on:
C1009704 (CTD id / Dump # / Cast #)	20020809 (Y Y Y Y M M D D)	12:26

Lat: (decimal degrees)	Lon: (decimal degrees)	Time GPS position:
58.60465 ~~58° 36.279'~~	-136.07648 ~~-136° 04.589~~	12:24

Depth: (m) 113

CTD dropped to (m): 100

Station#	WP#
003	026

Comments: PLGR reads FOM4 - navigated w/in 100' of station then PLGR wigged. ~~[illegible]~~ peak flood

Location: SE Willoughby

Tide High Height: 5.08 Low height: -1.14 Time since high: 1510 -151 min Time since low: ~~0857~~ 233 min

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tides

Cast Name:	Date:	Time CTD on:
C1009705 (CTD id / Dump # / Cast #)	20020809 (Y Y Y Y M M D D)	13:07

Lat: (decimal degrees)	Lon: (decimal degrees)	Time GPS position:
--.-----	---.-----	--:--

Depth: (m) ?

CTD dropped to (m): 250

Station#	WP#
004	---

Comments: FOM 9 ± 53 miles peak flood depth sounder not reading

Location: N of Drake, N of Marble.

Tide High Height: 5.08 Low height: -1.14 Time since high: ~~1407~~ 1510 -118 min Time since low: 0857 266 min

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tide

O_2

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LL Etherington / HS Rieden

Logbook Page: 3

Cast Name: C1009800 (CTD id / Dump # / Cast #)	Date: 20020819 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:33 AKST or AKDT
Lat: (decimal degrees) 58.32670 (°,',"): ~~58°19.602'~~	Lon: (decimal degrees) -135.87485 (°,',"): ~~-135°52.491'~~	Time GPS position: 11:32
Depth: (m) 55	CTD dropped to (m): 40	Station# 000 / WP# 029
Comments: Waypoint 028 for mid channel, mouth (due to FOG) flood		Location: Icy Strait, 00
Tide Low height: -.05 (~~.05~~) Time since Low: 317 (0550)	Tide High height: 3.66 Time since High: 54 (1227)	
Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tides		

Cast Name: C1009801 (CTD id / Dump # / Cast #)	Date: 20020819 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 12:04 AKST or AKDT
Lat: (decimal degrees) 58.41265 (°,',"): ~~58°24.759'~~	Lon: (decimal degrees) -135.99538 (°,',"): ~~-135°59.723'~~	Time GPS position: 12:03
Depth: (m) 64	CTD dropped to (m): 50	Station# 001 / WP# 030
Comments: Flood		Location: Mouth of GLBA, 01
Tide Low height: -.05 Time since Low: 348	Tide High height: 3.66 Time since High: -23 (1227)	
Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tides		

Cast Name: C1009802 (CTD id / Dump # / Cast #)	Date: 20020819 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 12:28 AKST or AKDT
Lat: (decimal degrees) 58.48992 (°,',"): ~~58°29.395'~~	Lon: (decimal degrees) -136.05168 (°,',"): ~~-136°03.101'~~	Time GPS position: 12:26
Depth: (m) 92	CTD dropped to (m): 80	Station# 002 / WP# 031
Comments: SLACK HIGH		Location: Sitakaday Narrows
Low height: 1.33 Time since Low: -327	Tide High height: 3.66 Time since High: 1 (!!)	
Oceanography		

Bartlett Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LLE/HSR/MVT

Logbook Page: 4

Cast Name:	Date:	Time CTD on (24-hr clock):
C1009803 (CTD id / Dump # / Cast #)	20020819 (Y Y Y Y M M D D)	12:51 AKST or AKDT
Lat: (decimal degrees) 58.57160 (°,',"): ~~58°34.296'~~	Lon: (decimal degrees) -136.06502 (°,',"): ~~-136°03.901'~~	Time GPS position: 12:50

Depth: (m) 111m

CTD dropped to (m): 100m

Station# 003 WP# 032

Comments: ebb

Location: SE Willoughby

Tide Low height: 1.36 Time since Low: -328 Tide High height: 4.09 Time since High: 11 1240

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tides

Cast Name:	Date:	Time CTD on (24-hr clock):
C1009804 (CTD id / Dump # / Cast #)	20020819 (Y Y Y Y M M D D)	13:17 AKST or AKDT
Lat: (decimal degrees) 58.65073 (°,',"): ~~58°39.044'~~	Lon: (decimal degrees) -136.11492 (°,',"): ~~-136°06.895'~~	Time GPS positic 13:15

Depth: (m) 288

CTD dropped to (m): 270

Station# 004 WP# 033

Comments: pause @ 60m ebb depth sound out of range

Location: N. Drake, N. Marble

Tide Low height: 1.36 Time since Low: -302 Tide High height: 4.09 Time since High: 37 1240

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tides

Cast Name:	Date:	Time CTD on (24 hr clock):
C1009805 (CTD id / Dump # / Cast #)	20020819 (Y Y Y Y M M D D)	13:56 AKST or AKDT
Lat: (decimal degrees) 58.70403 (°,',"): ~~58°42.242'~~	Lon: (decimal degrees) -136.23320 (°,',"): ~~-136°13.992'~~	Time GPS position: 13:54

Depth: (m) 366?

CTD dropped to (m): 300

Station# 005 WP# 034

Comments: pauses @ 240m & 280m ebb depth sounder out of ranges

Location: N. Drake, SW Tlingit

Tide Low height: 1.36 Time since Low: -263 Tide High height: 4.09 Time since High: 76 1240

Sampling: Oceanography Sonic Bottom Dive Other:

Willoughby Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LLG/HSR/Mr. + LJdLB

Logbook Page: 1

Cast Name: C2010300 (CTD id / Dump # / Cast #)	Date: 20021016 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 08:00 AKST or AKDT
Lat: (decimal degrees) 58.41270 (°,',"): 58° 24.762'	Lon: (decimal degrees) -136.99507 (°,',"): 136° 59.704'	Time GPS position: 08:00
Depth: (m) 56.8m	CTD dropped to (m): 50.0m	Station# 000 / WP# 025
Comments: flooding		Location: Jay Strait
Tide Low height: .6m Time since Low: 177min (0503)	Tide High height: 3.95m Time since High: -218min (1138)	
Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tide		

Cast Name: C2010301 (CTD id / Dump # / Cast #)	Date: 20021016 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 08:34 AKST or AKDT
Lat: (decimal degrees) 58.49045 (°,',"): [illegible]	Lon: (decimal degrees) -136.05193 (°,',"): [illegible]	Time GPS position: 08:34
Depth: (m) 62m	CTD dropped to (m): 50m	Station# 01 / WP# 026
Comments: peak flood		Location: Month of Glacier Bay
Tide Low height: .6m Time since Low: 211min (0503)	Tide High height: 3.95 Time since High: -184min	
Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tides		

Cast Name: C2010302 (CTD id / Dump # / Cast #)	Date: 20021016 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 08:54 AKST or AKDT
Lat: (decimal degrees) 58.49050 (°,',"): 58° 29.430'	Lon: (decimal degrees) -136.05193 (°,',"): 136° 03.116'	Time GPS position: 08:53
Depth: (m) 90m	CTD dropped to (m): 80m	Station# 002 / WP# 028
Comments: peak flood		Location: Sitakadai
.6m - 0503 231min	Tide High height: 3.95m Time since High: -164 min	

Bartlett Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LLC/LJdLB/HSR/ Mr T.

Logbook Page: 2

Cast Name: C2010303 (CTD id / Dump # / Cast #)	Date: 20021016 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 09:16 AKST or AKDT
Lat: (decimal degrees) 58.57173 (°,',"): 58° 34.304'	Lon: (decimal degrees) -136.06525 (°,',"): 136° 03.915'	Time GPS position: 09:16
Depth: (m) 115	CTD dropped to (m): 100	Station# 003 / WP# 29
Comments: peak flood		Location: SE Willoughby

Tide Low height: .63 Time since Low: 0527 229 | Tide High height: 4.37 Time since High: 1151 -155 min

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tides

Cast Name: C2010304 (CTD id / Dump # / Cast #)	Date: 20021016 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 09:46 AKST or AKDT
Lat: (decimal degrees) 58.64975 (°,',"): 58° 38.985	Lon: (decimal degrees) -136.11468 (°,',"): 136° 06.881'	Time GPS position: 09:45
Depth: (m)	CTD dropped to (m):	Station# 004 / WP# 30
Comments: FOM 3 on PLGR flooding		Location: N Drake/N. Marble

Tide Low height: .63 Time since Low: 0527 259 min | Tide High height: 4.37 Time since High: 1151 -115 min

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tides

Cast Name: C2010305 (CTD id / Dump # / Cast #)	Date: 20021016 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 10:26 AKST or AKDT
Lat: (decimal degrees) 58.70403 (°,',"): 58° 42.242'	Lon: (decimal degrees) -136.23333 (°,',"): 136° 14.000'	Time GPS position: 10:25
Depth: (m) 366	CTD dropped to (m): 300	Station# 005 / WP# 31
Comments: flooding		Location: N Drake / SW Tlingit

Tide Low height: .63 Time since Low: 0527 299 min | Tide High height: 4.37 Time since High: 1151 -85 min

Sampling: Oceanography Sonic Bottom Dive Other:

Willoughby Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LLE/LJdLB/HSR/ Mr T.

Logbook Page: 3

Cast Name:	Date:	Time CTD on (24-hr clock):
C2010306 (CTD id / Dump # / Cast #)	20021016 (Y Y Y Y M M D D)	11:00 AKST or ~~AKDT~~
Lat: (decimal degrees) 58.65768 (°,',"): 58° 39.461'	Lon: (decimal degrees) -136.36535 (°,',"): 136° 21.921'	Time GPS position: 10:59

Depth: (m) 155 | CTD dropped to (m): 140m | Station# 022 | WP# 032

Comments: flooding

Location: Entrance Geike

Tide Low height: .63 Time since Low: 333min (0527) Tide High height: 4.37 Time since High: -51min (1151)

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tides

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Cast Name:	Date:	Time CTD on (24-hr clock):
C2010307 (CTD id / Dump # / Cast #)	20021016 (Y Y Y Y M M D D)	~11:20 AKST or AKDT
Lat: (decimal degrees) 58.59807 (°,',"): 58° 35.884'	Lon: (decimal degrees) -136.50640 (°,',"): 136° 30.384'	Time GPS position: 11:20

Depth: (m) 67.3 | CTD dropped to (m): 60m | Station# 023 | WP# 033

Comments: slack high

Location: Head of Geikie

Tide Low height: .63 Time since Low: 353min (0527) Tide High height: 4.37 Time since High: -31min (1151)

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tides

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Cast Name:	Date:	Time CTD on (24 hr clock):
C2010308 (CTD id / Dump # / Cast #)	20021016 (Y Y Y Y M M D D)	12:10 AKST or AKDT
Lat: (decimal degrees) 58.75915 (°,',"): ~~[illegible]~~ 58°45.549'	Lon: (decimal degrees) -136.35165 (°,',"): ~~[illegible]~~ 136°21.099'	Time GPS position: 12:09

Depth: (m) 288 | CTD dropped to (m): 270 | Station# 006 | WP# 034

Comments: slack high

Location: E. Hugh Miller

Tide Low height: 1.32 Time since Low: -345min (1755) Tide High height: 4.53 Time since High: 15min (1155)

Sampling: Oceanography Sonic Bottom Dive Other: Composite Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LLE/LJdLB/HSR/MWT

Logbook Page: 4

Cast 1

Cast Name: C2010309 (CTD id / Dump # / Cast #)

Date: 2002 10 16 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 12:36 AKST or (AKDT)

Lat: (decimal degrees) 58.81170 (°,',"): 58° 48.702'

Lon: (decimal degrees) -136.47320 (°,',"): 136° 28.392'

Time GPS position: 12:35

Depth: (m) 435m

CTD dropped to (m): 300m

Station#: 007

WP#: 035

Comments: ebbing

Location: Nat Blue Mouse W of Tidal Inlet

Tide Low height: 1.32 Time since Low: -39 min (1705)

Tide High height: 4.53 Time since High: 41 min (1155)

Sampling: (Oceanography) Sonic Bottom Dive Other: Composite Tides

Cast 2

Cast Name: C2010310 (CTD id / Dump # / Cast #)

Date: 2002 10 16 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 13:40 AKST or AKDT

Lat: (decimal degrees) 58.86493 (°,',"): 58° 51.896'

Lon: (decimal degrees) -136.59325 (°,',"): 136° 35.595'

Time GPS position: 13:40

Depth: (m) 426m

CTD dropped to (m): 300m

Station#: 008

WP#: 036

Comments: Stopped in BM Cove to fuel up ⇨ 30 gal added. ebbing

Location: S. of Rendu Inlet

Tide Low height: 1.32 Time since Low: -255 min (1705)

Tide High height: 4.53 Time since High: 105 min (1155)

Sampling: (Oceanography) Sonic Bottom Dive Other: Composite Tides

Cast 3

Cast Name: C2010311 (CTD id / Dump # / Cast #)

Date: 2002 10 16 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 14:09 AKST or (AKDT)

Lat: (decimal degrees) 58.89735 (°,',"): 58° 53.841'

Lon: (decimal degrees) -136.73629 (°,',"): 136° 44.177'

Time GPS position: 14:08

Depth: (m) 377

CTD dropped to (m): 300

Station#: 009

WP#: 037

Comments: 2½ min. at surface Peak ebb

Location: SE Russell

Tide Low height: 1.32 Time since Low: -226 min (1705)

Tide High height: 4.53 Time since High: 134 min (1155)

Sampling: (Oceanography) Sonic Bottom Dive Other: Composite Tides

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LJdLB/HSR, LLE/MrT

Logbook Page: 5

Cast Name:	Date:	Time CTD on (24-hr clock):
C2010312 (CTD id / Dump # / Cast #)	20021016 (Y Y Y Y M M D D)	14:33 AKST or AKDT
Lat: (decimal degrees) 58.89916 (",',"): 58° 53.950'	Lon: (decimal degrees) -136.83985 (",',"): 136° 50.391'	Time GPS position: 14:33

Depth: (m) 361m | CTD dropped to (m): 300m | Station# 10 | WP# 038

Comments: peak ebb

Location: N. Reid Inlet

Tide Low height: 1.32 Time since Low: 1755 -202 min | Tide High height: 4.53 Time since High: 1155 +202 min

Sampling: Oceanography Sonic Bottom Dive Other: Composite Tides

Cast Name:	Date:	Time CTD on (24-hr clock):
C2010313 (CTD id / Dump # / Cast #)	20021016 (Y Y Y Y M M D D)	15:00 AKST or AKDT
Lat: (decimal degrees) 58.97170 (",',"): 58° 58.302'	Lon: (decimal degrees) -136.91668 (",',"): 136° 55.001'	Time GPS position: 15:00

Depth: (m) 338 | CTD dropped to (m): 300 | Station# 011 | WP# 039

Comments: peak ebb

Location: Tarr Inlet

Tide Low height: 1.32 Time since Low: 1755 -175 min | Tide High height: 4.53 Time since High: 1155 235 min

Sampling: Oceanography Sonic Bottom Dive Other: Composite Tides

Cast Name:	Date:	Time CTD on (24 hr clock):
C2010314 (CTD id / Dump # / Cast #)	20021016 (Y Y Y Y M M D D)	15:26 AKST or AKDT
Lat: (decimal degrees) 59.03333 (",',"): 59° 02.000'	Lon: (decimal degrees) -137.01835 (",',"): 137° 01.101	Time GPS position: 15:25

Depth: (m) 288m | CTD dropped to (m): 270 | Station# 012 | WP# 040

Comments: ebbing

Location: Head of Tarr Inlet

Tide Low height: 1.32 Time since Low: 1755 -149 min | Tide High height: 4.53 Time since High: 1155 261 min

Sampling: Oceanography Sonic Bottom Dive Other: Composite Tides

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LJdLB/LLE/HSR/ Mr. T

Logbook Page: 6

Cast Name:	Date:	Time CTD on (24-hr clock):
C2010315 (CTD id / Dump # / Cast #)	2002 10 16 (Y Y Y Y M M D D)	15:42 AKST or AKDT
Lat: (decimal degrees) 59.04765 (°,',"): 59° 02.859'	Lon: (decimal degrees) -137.05768 (°,',"): 137° 03.461'	Time GPS position: 15:42

Depth: (m) 195 m | CTD dropped to (m): 180 m | Station# 021 | WP# 041

Comments: ebbing

Location: Margerie/Grand Pacific

Tide Low height: 1.32 Time since Low: 1755 133 min | Tide High height: 4.53 Time since High: 1155 253 min

Sampling: (Oceanography) Sonic Bottom Dive Other: Composite Tides

Cast Name:	Date:	Time CTD on (24-hr clock):
C1010400 (CTD id / Dump # / Cast #)	2002 10 17 (Y Y Y Y M M D D)	08:49 AKST or (AKDT)
Lat: (decimal degrees) 58.73268 (°,',"): 58° 43.961'	Lon: (decimal degrees) 136.11352 (°,',"): 136° 06.811'	Time GPS position: 08:48

Depth: (m) 146 m | CTD dropped to (m): 130 m | Station# 013 | WP# 042

Comments: flooding

Location: SE of Tlinglit Pt, NW of Sturgess.

Tide Low height: .48 m Time since Low: 0616 153 min | Tide High height: 4.82 m Time since High: 1235 -226 min

Sampling: (Oceanography) Sonic Bottom Dive Other: Muir Tides

Cast Name:	Date:	Time CTD on (24 hr clock):
C1010401 (CTD id / Dump # / Cast #)	2002 10 17 (Y Y Y Y M M D D)	09:07 AKST or (AKDT)
Lat: (decimal degrees) 58.79162 (°,',"): 58° 47.497'	Lon: (decimal degrees) 136.10842 (°,',"): 136° 06.505'	Time GPS position: 09:06

Depth: (m) 80 m | CTD dropped to (m): 70 m | Station# 014 | WP# 043

Comments: Skip STN 015 (no longer a Station) flooding

Location: Muir Sill

Tide Low height: .48 m Time since Low: 0616 170 min | Tide High height: 4.82 m Time since High: 1235 -209 min

Sampling: (Oceanography) Sonic Bottom Dive Other: Muir Tides

(2)

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LJ & LP, LLE, HSF, Mr. T

Logbook Page: 7

Cast 1

Cast Name: C 1 0 1 0 4 0 2 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 1 0 1 7 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 09 : 33 AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 58.89587 (°,',"): 58° 53.752'

Lon: (decimal degrees) 136.09337 (°,',"): 136° 05.602'

Depth: (m) 313m

CTD dropped to (m): 300m

Station# 016

WP# 044

Comments: Peak flood

Location: E. Hunter Cove

Tide Low height: .48m Time since Low: 196

Tide High height: 4.82m Time since High: -183min

Sampling: (Oceanography) Sonic Bottom Dive Other: Muir Tides

Cast 2

Cast Name: C 1 0 1 0 4 0 3 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 1 0 1 7 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 10 : 03 AKST or AKDT

Time GPS position: 10 : 02

Lat: (decimal degrees) 58.97502 (°,',"): 58° 58.501'

Lon: (decimal degrees) 136.136677 (°,',"): 136° 08.200'

Depth: (m) 203m

CTD dropped to (m): 180m

Station# 017

WP# 045

Comments: Peak flood

Location: East of Westdahl Point

Tide Low height: .48m Time since Low: 226min (0616)

Tide High height: 4.82m Time since High: -153min (1238)

Sampling: (Oceanography) Sonic Bottom Dive Other: Muir Tides

Cast 4

Cast Name: C 1 0 1 0 4 0 4 (CTD id / Dump # / Cast #)

Date: 2 0 0 2 1 0 1 7 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 10 : 32 AKST or AKDT

Time GPS position: 10 : 31

Lat: (decimal degrees) 59.04995 (°,',"): 59° 02.997'

Lon: (decimal degrees) 136.18480 (°,',"): 136° 11.088'

Depth: (m) 213m

CTD dropped to (m): 200m

Station# 018

WP# 046

Comments: CTD turned on a minute or so before being put in water flooding

Location: 5 of Riggs, NW of McBride

Tide Low height: .48m Time since Low: 255min

Tide High height: 4.82m Time since High: -124min

Sampling: (Oceanography) Sonic Bottom Dive Other: Muir Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: JdLB, HSR, LLE,

Logbook Page: 8

Cast Name: C1010405 (CTD id / Dump # / Cast #)	Date: 20021017 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:02 AKST or AKDT
Lat: (decimal degrees) 59.07165 (",","): 59°04.299'	Lon: (decimal degrees) -136.33672 (",","): 136°20.203'	Time GPS position: :
Depth: (m) 233m	CTD dropped to (m): 210m	Station# 019 / WP# 047
Comments: flooding		Location: Muir Inlet
Tide Low height: .48m Time since Low: 0616 286 min	Tide High height: 4.82m Time since High: 1235 -93 min	
Sampling: Oceanography Sonic Bottom Dive Other: Muir Tides		

Cast Name: C1010406 (CTD id / Dump # / Cast #)	Date: 20021017 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:34 AKST or AKDT
Lat: (decimal degrees) 59.08600 (",","): 59°05.160	Lon: (decimal degrees) 136.37082 (",","): 136°22.249	Time GPS position: 11:33
Depth: (m) 183m	CTD dropped to (m): 170m	Station# 020 / WP# 048
Comments: station was just North of dramatic sediment plumes (slack high)		Location: Head of Muir
Tide Low height: .48m Time since Low: 0616 318 min	Tide High height: 4.82m Time since High: 1235 -61 min	
Sampling: Oceanography Sonic Bottom Dive Other: Muir Tides		

Cast Name: C1010407 (CTD id / Dump # / Cast #)	Date: 20021018 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 11:11 AKST or AKDT
Lat: (decimal degrees) 58.32663 (",","): 58°19.598'	Lon: (decimal degrees) 135.87518 (",","): 135°52.511'	Time GPS position: :
Depth: (m) 66m	CTD dropped to (m): 50m	Station# 00 / WP# 049
Comments: CTD rope fell off pulley at start therefore pause at ~2m (~20sec) (peak flood)		Location: Icy Strait
Tide Low height: .34m Time since Low: 0629 246 min	Tide High height: 4.48 Time since High: 1249 -98 min	
Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tides		

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: JdLB, HSR, LLE Logbook Page: 9

Cast Name:	Date:	Time CTD on (24-hr clock):
C1010408 (CTD id / Dump # / Cast #)	20021018 (Y Y Y Y M M D D)	11:33 AKST or AKDT
Lat: (decimal degrees) 58.41248 (°,',"): 58° 24.749°	Lon: (decimal degrees) 135.99517 (°,',"): 135° 59.710'	Time GPS position: :

Depth: (m) 62 m CTD dropped to (m): 50m Station# 01 WP# 050

Comments: flood Location: Mouth Glacier Bay

Tide Low height: .34m Time since Low: 307 min (0626) Tide High height: 4.48 Time since High: -76 min (1249)

Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tides

Cast Name:	Date:	Time CTD on (24-hr clock):
C1010409 (CTD id / Dump # / Cast #)	20021018 (Y Y Y Y M M D D)	11:57 AKST or AKDT
Lat: (decimal degrees) 58.48998 (°,',"): 58° 29.399'	Lon: (decimal degrees) 136.00817 (°,',"): 136° 03.093'	Time GPS position: :

Depth: (m) 93m CTD dropped to (m): 80m Station# 02 WP# 051

Comments: flood Location: Sitakaday

Tide Low height: .34m Time since Low: 331 min (0626) Tide High height: 4.48 Time since High: -52 min (1249)

Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tides

Cast Name:	Date:	Time CTD on (24 hr clock):
C1010410 (CTD id / Dump # / Cast #)	20021018 (Y Y Y Y M M D D)	12:15 AKST or AKDT
Lat: (decimal degrees) 58.57178 (°,',"): 58° 34.307'	Lon: (decimal degrees) 136.06472 (°,',"): 136° 03.883'	Time GPS position: 12:14

Depth: (m) 112m CTD dropped to (m): 100m Station# 003 WP# 052

Comments: flood Location: SE of Willoughby

Tide Low height: .37 Time since Low: 325 min (0650) Tide High height: 4.91 Time since High: -53 min (1302)

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby Tides

5×60 = 300

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LJdLB, HSR, LLE

Logbook Page: 10

Cast Name: C 1 0 1 0 4 1 1 (CTD id / Dump # / Cast #)	Date: 2 0 0 2 1 0 1 8 (Y Y Y Y M M D D)	Time CTD on (24 clock): 12:35 AKST or AKDT
Lat: (decimal degrees) 58.65083 (°,',"): 58°39.050'	Lon: (decimal degrees) -136.11500 (°,',"): 136°08.900'	Time GPS position: :
Depth: (m) 288m	CTD dropped to (m): 270m	Station# 04 / WP# 053
Comments: slack high.		Location: N. Drake N. Marble

Tide Low height: .37 Time since Low: 345min Tide High height: 4.91 Time since High: -33min

Sampling: Oceanography Sonic Bottom Dive Other: (Willoughby Tides

Cast Name: C (CTD id / Dump # / Cast #)	Date: (Y Y Y Y M M D D)	Time CTD on (24-hr clock): : AKST or AKDT
Lat: (decimal degrees) . (°,',"):	Lon: (decimal degrees) . (°,',"):	Time GPS position: :
Depth: (m)	CTD dropped to (m):	Station# / WP#
Comments:		Location:

Tide Low height: Time since Low: Tide High height: Time since High:

Sampling: Oceanography Sonic Bottom Dive Other:

Cast Name: C (CTD id / Dump # / Cast #)	Date: (Y Y Y Y M M D D)	Time CTD on (24 hr clock): : AKST or AKDT
Lat: (decimal degrees) . (°,',"):	Lon: (decimal degrees) . (°,',"):	Time GPS position: :
Depth: (m)	CTD dropped to (m):	Station# / WP#
Comments:		Location:

Tide Low height: Time since Low: Tide High height: Time since High:

Sampling: Oceanography Sonic Bottom Dive Other:

October 2002 - Oceanographic Sampling

10/16/02 Sigma-T
w/ Jim de la Bruere, Hope Rieden & Lisa Etherington

Left dock ~ 645

Using CTD #2: CTD casts at stations:
00, 01, 02, 03, 04, 05, 22, 23, 06

Filled 30g gas at Blue House & headed up west Arm

w/ CTD #2: CTD casts at stations:
07, 08, 09, 10, 11, 12, 21
(not much ice in Tarr Inlet)

Filled 30g gas at Blue House & headed home.
Arrived at Bartlett Cove ~ 1830

10/17/02 Sigma-T
w/ JdLB, HSR, LLE
Filled w/ 44g gas at BARCO
Left dock ~ 750

using CTD #1: CTD casts at stations:
13, 14, 16, 17, 18, 19, 20

→ switched CTD's because we were having some troubles w/ CTD #2
① New tubing for the openings ~~there~~ was too small - almost impossible to fit over the 2 ends
② bottom end (glass tube) broke → possibly due to trying to get tubing over the end?

(3) the connector hose that is snapped on & off is too short - very difficult to get on & off — came loose from fitting once & had to re-cable-tie
⇒ get longer piece of tubing?

left station #20 ~ 1210
back to dock ~ 1600
Filled w/ 61.6 g gas

10/18/02 Sigma T
JDLB, HSR, LLE
left dock ~ 1015

using CTD #1: CTD casts taken at stations:
00, 01, 02, 03, 04

⇒ started w/ 00 & headed up Bay for slack high & lower Bay series
(rather than old way of going down - Bay (03 → 00), which ended up w/ 01 & 00 as ebbing)

* Ended up only being ~20 min. between stations *
going ~25 knts 4200 rpm

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