OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: Julie Nielson on Gyre (tracking trip?) Logbook Page: _____

Cast Name:	Date:	Time CTD on (24-hr clock):
C1 010500 (CTD id / Dump # / Cast #)	20030212 (Y Y Y Y M M D D)	14:24 30 (AKST or AKDT)
Lat: (decimal degrees) 58.292 (°,',"): ~~58° 29 2.83~~	Lon: (decimal degrees) -136.06062 (°,',"): ~~136° 03 03.73~~	Time GPS position: 14:23

Depth: (m) 89 | CTD dropped to (m): 80 | Station# 02 | WP# 01

Comments:

Location: Sitakaday

Tide Low height: .5m Time since Low: 1631 -125 | Tide High height: 3.69m Time since High: 0929 305

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

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Cast Name:	Date:	Time CTD on (24-hr clock):
C1 010501 (CTD id / Dump # / Cast #)	20030212 (Y Y Y Y M M D D)	15:24 00 (AKST or AKDT)
Lat: (decimal degrees) 58.56976 (°,',"): ~~58 34 18 56~~	Lon: (decimal degrees) -136.08884 (°,',"): ~~136 03 53.02~~	Time GPS position: 15:23

Depth: (m) 110 | CTD dropped to (m): 100 | Station# 03 | WP# 02

Comments:

Location: SE of Willoughby

Tide Low height: .53m Time since Low: 1655 91 | Tide High height: 4.12m Time since High: 0942 342

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

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Cast Name:	Date:	Time CTD on (24 hr clock):
C1 010502 (CTD id / Dump # / Cast #)	20030212 (Y Y Y Y M M D D)	16:15 40 (AKST or AKDT)
Lat: (decimal degrees) 58.66026 (°,',"): ~~58 39 01.57~~	Lon: (decimal degrees) 136.10648 (°,',"): ~~136 06 38.88~~	Time GPS position: 16:15

Depth: (m) 291 | CTD dropped to (m): 280 ~~100~~ | Station# 04 | WP# 03

Comments:

Location: N. of Drake

Tide Low height: .53 Time since Low: 1655 -40 | Tide High height: 4.12m Time since High: 0942 351

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

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: Juhi Nielsen Logbook Page: _____

Cast Name: C I 0 I 0 5 0 3 (CTD id / Dump # / Cast #)

Date: 2003 02 12 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 17:18 AKST or AKDT

Time GPS position: 17:15

Lat: (decimal degrees) 58.726 03 (",","): ~~58 43 56.15~~

Lon: (decimal degrees) 136.106 37 (",","): ~~136 06 38.20~~

Depth: (m) 140

CTD dropped to (m): 130

Station# 0 5 **WP#** 0 4

Comments: * & pnb stn #13 not 5 → look at lat

Location: SE of Tlingit, NW of Hugo

5: 136.233 58.704

13: 136.123 58.723 1658 2340

Tide Low height: .53 **Time since Low:** 20 min **Tide High height:** 3.72m **Time since High:** -372 min

Sampling: Oceanography Sonic Bottom Dive Other: Muir

Cast Name: C I 0 I 0 5 0 4

Date: 2003 02 16

Time CTD on (24-hr clock): 9:50 30 AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 58.783 93 (",","): ~~58 58.496~~

Lon: (decimal degrees) 136.137 25 (",","): ~~136 08.235~~

Depth: (m) 190

CTD dropped to (m):

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

Comments: to the spot dance short shakeyar body down

Location: E of Westdahl ??

Tide Low height: .72m **Time since Low:** 157 min 0713 **Tide High height:** 5.61 1307 **Time since High:** -197

Sampling: Oceanography Sonic Bottom Dive Other: Muir

Cast Name: C I 0 I 0 5 0 5

Date: 2003 02 16

Time CTD on (24 hr clock): 13:03 30 AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 59.506 67 (",","): 59 03.040

Lon: (decimal degrees) 136.185 56 (",","): 136 11.134

Depth: (m) 221

CTD dropped to (m): 210

Station# 1 8 **WP#** 2 8

Comments: to the ground

Location: S of Riggs, NW of Mc Bride

Tide Low height: .72 **Time since Low:** 360 0713 **Tide High height:** 5.61 1307 **Time since High:** -4

Sampling: Oceanography Sonic Bottom Dive Other: Muir Tides

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: Julie Nielsen Logbook Page: _____

Cast Name:	Date:	Time CTD on (24-hr clock):
C 1 0 1 0 5 0 6 (CTD id / Dump # / Cast #)	2 0 0 3 0 2 1 6 (Y Y Y Y M M D D)	15:36 AKST or AKDT
Lat: (decimal degrees) 58.90015 (°,',"): ~~58 54.009~~	Lon: (decimal degrees) 136.09235 (°,',"): ~~136 05.529~~	Time GPS position: :

Depth: (m) 313 CTD dropped to (m): 300 Station# 16 WP# 29

Comments:

Location: E of Hunter Cove

Tide Low height: -.95 Time since Low: 1944 -248 Tide High height: 5.61 Time since High: 1207 149

Sampling: Oceanography Sonic Bottom Dive Other: Muir Tides

Cast Name:	Date:	Time CTD on (24-hr clock):
C 1 0 1 0 5 0 7 (CTD id / Dump # / Cast #)	2 0 0 3 0 2 1 8 (Y Y Y Y M M D D)	8:35 AKST or AKDT
Lat: (decimal degrees) 58.41532 (°,',"): ~~58 24.919~~	Lon: (decimal degrees) 135.98975 (°,',"): ~~135 59.385~~	Time GPS position: 8:34

Depth: (m) 60 CTD dropped to (m): 50 Station# 01 WP# 30

Comments:

Location: Mouth of Glacier Bay

Tide Low height: .01m Time since Low: 0807 28 min Tide High height: 5.2 Time since High: 1412 -337

Sampling: Oceanography Sonic Bottom Dive Other: Bartlett Tides

Cast Name:	Date:	Time CTD on (24 hr clock):
C (CTD id / Dump # / Cast #)	(Y Y Y Y M M D D)	: 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:

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum:

Name: _____ Logbook Page: _____

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

Date: _____ _____ _____ _____ _____ _____ _____ _____
Y Y Y Y M M D D

Time CTD on (24-clock): _____ _____ : _____ _____
AKST or AKDT

Time GPS position: _____ _____ : _____ _____

Lat: (decimal degrees) _____ _____ . _____ _____ _____ _____ _____
(°,',"):

Lon: (decimal degrees) _____ _____ _____ . _____ _____ _____ _____ _____
(°,',"):

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

Time GPS position: _____ _____ : _____ _____

Lat: (decimal degrees) _____ _____ . _____ _____ _____ _____ _____
(°,',"):

Lon: (decimal degrees) _____ _____ _____ . _____ _____ _____ _____ _____
(°,',"):

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

Time GPS position: _____ _____ : _____ _____

Lat: (decimal degrees) _____ _____ . _____ _____ _____ _____ _____
(°,',"):

Lon: (decimal degrees) _____ _____ _____ . _____ _____ _____ _____ _____
(°,',"):

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 :

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: JdLB, PV, KC, HR on Alaskan Gyre Logbook Page: 1

Cast Name:	Date:	Time CTD on (24-hr clock):
C1 0 1 0 6 0 0 (CTD id / Dump # / Cast #)	2 0 0 3 0 3 3 1 (Y Y Y Y M M D D)	08:20 AKST or AKDT
Lat: (decimal degrees) 58.32673 (°,',"): ~~58°19'604"~~	Lon: (decimal degrees) -135.87743 (°,',"): ~~-135°52'464"~~	Time GPS position: 08:19

Depth: (m) 53m CTD dropped to (m): 50m Station# 0 0 0 WP# 0 3 3

Comments: flooding series peak downloaded 4/7 Location: Icy Strait

Tide Low height: 0.45m Time since Low: 116 (0624) Tide High height: 3.68m Time since High: -238 (1218)

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station: Lemesurier

Cast Name:	Date:	Time CTD on (24-hr clock):
C1 0 1 0 6 0 1 (CTD id / Dump # / Cast #)	2 0 0 3 0 3 3 1 (Y Y Y Y M M D D)	09:15 AKST or AKDT
Lat: (decimal degrees) 58.41275 (°,',"): ~~58°24'765"~~	Lon: (decimal degrees) -135.49487 (°,',"): ~~-135°59'692~~	Time GPS position: 09:14

Depth: (m) 63m CTD dropped to (m): 60m Station# 0 0 1 WP# 0 3 4

Comments: flooding series peak downloaded 4/7 Location: Mouth of Glacier Bay

Tide Low height: 0.22m Time since Low: 160 (0635) Tide High height: 4.49m Time since High: -199 (1244)

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station: Bartlett

Cast Name:	Date:	Time CTD on (24 hr clock):
C1 0 1 0 6 0 2 (CTD id / Dump # / Cast #)	2 0 0 3 0 3 3 1 (Y Y Y Y M M D D)	09:56 AKST or AKDT
Lat: (decimal degrees) 58.48990 (°,',"): ~~58°29'394"~~	Lon: (decimal degrees) -136.05122 (°,',"): ~~-136°03'073"~~	Time GPS position: 09:55

Depth: (m) 93m CTD dropped to (m): 80m Station# 0 0 2 WP# 0 3 5

Comments: Peak flood series downloaded 4/7 Location: Sitakaday Narrows

Tide Low height: .22m Time since Low: 201 (0635) Tide High height: 4.49m Time since High: -168 (1244)

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station: Bartlett

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: JdeLaB, KC, PV, HR on Alaskan Gyre Logbook Page: 2

Cast Name: C 1 0 1 0 6 0 3 (CTD id / Dump # / Cast #)

Date: 2003031 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 10:25 AKST or AKDT

Time GPS position: 10:24

Lat: (decimal degrees) 58.57193 (°,',"): ~~58° 34' 31.6"~~

Lon: (decimal degrees) -136.064388 (°,',"): ~~-136° 03' 86.6"~~

Depth: (m) 115m

CTD dropped to (m): 110 m

Station# 003 WP# 036

Comments: Flooding slows peak downloaded 4/1

Location: SE of Willoughby

Tide Low height: .25m Time since Low: 206 (0689)

Tide High height: 4.92 Time since High: -152 (1257)

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Willoughby

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

Date: 2003031 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 11:21 AKST or AKDT

Time GPS position: 11:22

Lat: (decimal degrees) 58.650715 (°,',"): ~~58° 39' 04.6"~~

Lon: (decimal degrees) -136.614943 (°,',"): ~~-136° 36' 89.8"~~

Depth: (m) 280 m

CTD dropped to (m): 280 m

Station# 004 WP# 037

Comments: Flooding slows? peak downloaded 4/1

Location: N of Drake N of Marble

Tide Low height: .25 Time since Low: 262 (0689)

Tide High height: 4.92 Time since High: -96 (1257)

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Willoughby

Cast Name: C 1 0 1 0 6 0 5 (CTD id / Dump # / Cast #)

Date: 2003031 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 12:22 AKST or AKDT

Time GPS position: 12:21

Lat: (decimal degrees) 58.732265 (°,',"): ~~58° 43' 93.5"~~

Lon: (decimal degrees) -136.112766 (°,',"): ~~-136° 06' 76.6"~~

Depth: (m) 152m

CTD dropped to (m): 140m

Station# 013 WP# 038

Comments: Downloaded 4/1

Location: SE of Tlingit NW Sturgis

Tide Low height: .25 Time since Low: 323 (0689)

Tide High height: 4.92 Time since High: -35min (1257)

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: ~~Mary~~ Willoughby

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: JdLB, KC, PV, HR on Alaskan Gyre Logbook Page: 3

Cast Name: C1010606 (CTD id 01 / Dump # 06 / Cast # 06)

Date: 2003033 1 (YYYY MM DD)

Time CTD on (24-hr clock): 12:06 AKST or AKDT

Time GPS position: 13:05

Lat: (decimal degrees) 58.79155 (°,',"): ~~58° 47' 29.8"~~

Lon: (decimal degrees) -136.10863 (°,',"): ~~-136° 06' 51.8"~~

Depth: (m)	CTD dropped to (m):	Station#	WP#
81	70	014	039

Comments: downloaded 4/7

Location: Muir Sill

Tide Low height: ~~-.14~~ Time since Low: ~~1916~~ 370 Tide High height: 5.07 Time since High: ~~1302~~ 4

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Muir

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Cast Name: C1010607 (CTD id 01 / Dump # 07 / Cast # 07)

Date: 2003033 1 (YYYY MM DD)

Time CTD on (24-hr clock): 14:21 AKST or AKDT

Time GPS position: 14:20

Lat: (decimal degrees) 58.89588 (°,',"): ~~58° 53.763~~

Lon: (decimal degrees) -136.09307 (°,',"): ~~-136° 05' 58.4"~~

Depth: (m)	CTD dropped to (m):	Station#	WP#
314m	300M	016	040

Comments: Skipped #15 (not a stn. anymore) downloaded 4/7

Location: E of Hunter Point

Tide Low height: ~~-.14~~ Time since Low: ~~1916~~ 295 Tide High height: ~~5.07~~ Time since High: ~~1502~~ 79

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Muir

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Cast Name: C1010608 (CTD id 01 / Dump # 08 / Cast # 08)

Date: 2003033 1 (YYYY MM DD)

Time CTD on (24 hr clock): 15:18 AKST or AKDT

Time GPS position: 15:17

Lat: (decimal degrees) 58.97483 (°,',"): ~~58° 58' 49.0"~~

Lon: (decimal degrees) -136.18622 (°,',"): ~~-136° 08' 17.3"~~

Depth: (m)	CTD dropped to (m):	Station#	WP#
170m	150m	017	041

Comments: drifting quite a bit downloaded 4/7

Location: E of West Island Pt

Tide Low height: ~~-.14~~ Time since Low: ~~1916~~ 238 Tide High height: ~~5.07~~ Time since High: ~~1502~~ 136

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Muir

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: JdLB, KC, PV, HR on Alaskan Gyre Logbook Page: 4

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

Date: 2 0 0 3 0 3 3 1 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 16:19 (AKST or AKDT)

Time GPS position: 16:18

Lat: (decimal degrees) 59.05010 (°,',"): ~~59° 03' 006~~

Lon: (decimal degrees) -136.18433 (°,',"): ~~-136° 11' 060"~~

Depth: (m) 210

CTD dropped to (m): 180m

Station# 018 WP# 042

Comments: blowing 35kts, didn't do anymore casts due to wind in East Arm (skip 19 and 20)

Location: S of Riggs, NW of McBride

Tide Low height: -.14 Time since Low: -177 (1916) Tide High height: 5.07 Time since High: 197 (1302)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Muir

downloaded 4/7

Cast Name: C1 0 1 0 8 0 0 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 4 0 2 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 07:16 (AKST or AKDT)

Time GPS position: 07:15

Lat: (decimal degrees) 58.7592 (°,',"): ~~58° 46' 552"~~

Lon: (decimal degrees) -136.35167 (°,',"): ~~-136° 21' 100"~~

Depth: (m) 275

CTD dropped to (m): 250

Station# 006 WP# 043

Comments: Skipped #5 for now, catch on way back. downloaded 4/7

Location: E of Hugh Miller Inlet

Tide Low height: -.18 Time since Low: -48 (0804) Tide High height: 5.29 Time since High: 324 (0152)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Composite

---

Cast Name: C1 0 1 0 8 0 1 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 4 0 2 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 09:56 (AKST or AKDT)

Time GPS position: 09:55

Lat: (decimal degrees) 58.89748 (°,',"): ~~58° 53' 849"~~

Lon: (decimal degrees) -136.7366 (°,',"): ~~-136° 44' 196"~~

Depth: (m) 377

CTD dropped to (m): 300

Station# 009 WP# 044

Comments: Skipped 07 & 08 - will get on way back, weather depending....

Location: SE of Russell Island

Tide Low height: -.18 Time since Low: 112 (0804) Tide High height: 5.06 Time since High: -251 (1407)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Composite

downloaded 4/7

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: J. de La B., K.C., P.V., & H.R. on Alaskan Gyre Logbook Page: 5

Cast Name:	Date:	Time CTD on (24-hr clock):
C1010802 (CTD id / Dump # / Cast #)	20030402 (Y Y Y Y M M D D)	10:45 AKST or AKDT
Lat: (decimal degrees) 58.89907 (°,',"): ~~58° 53' 944"~~	Lon: (decimal degrees) -136.90175 (°,',"): ~~-136° 54' 105"~~	Time GPS position: 10:44

Depth: (m) 360m | CTD dropped to (m): 300m | Station# 010 | WP# 045

Comments: downloaded 4/1

Location: N of Reid Inlet

Tide Low height: -.18 Time since Low: 0804 161 | Tide High height: 5.06 Time since High: 1407 -202

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station: Composite

Cast Name:	Date:	Time CTD on (24-hr clock):
C1010803 (CTD id / Dump # / Cast #)	20030402 (Y Y Y Y M M D D)	12:52 AKST or AKDT
Lat: (decimal degrees) 59.0477 (°,',"): ~~59° 02' 862"~~	Lon: (decimal degrees) -137.05743 (°,',"): ~~-137° 03' 446"~~	Time GPS position: 12:50

Depth: (m) 195m | CTD dropped to (m): 170m | Station# 021 | WP# 046

Comments: Skipped 11 & 12 will catch on way down downloaded 4/1

Location: Margerie and Grand Pacific

Tide Low height: -.18 Time since Low: 0804 288 | Tide High height: 5.06 Time since High: 1407 -75

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station: Composite

Cast Name:	Date:	Time CTD on (24 hr clock):
C1010804 (CTD id / Dump # / Cast #)	20030402 (Y Y Y Y M M D D)	13:18 AKST or AKDT
Lat: (decimal degrees) 59.0324 (°,',"): ~~59° 01' 994"~~	Lon: (decimal degrees) -137.01833 (°,',"): ~~-137° 01' 100"~~	Time GPS position: 13:17

Depth: (m) 298 | CTD dropped to (m): 270 | Station# 012 | WP# 047

Comments: downloaded 4/1

Location: Head of Tarr Inlet

Tide Low height: -.18 Time since Low: 0804 314 | Tide High height: 5.06 Time since High: 1407 -49

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station: Composite

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: J. deLa B., KC, PV, HR on Alaskan Gyre Logbook Page: 6

Cast Name: C1 010805 (CTD id / Dump # / Cast #)	Date: 2003 04 02 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 14:08 AKST or AKDT
Lat: (decimal degrees) 58.97167 (°,',"): ~~58° 58' 300"~~	Lon: (decimal degrees) -136.91672 (°,',"): ~~-136° 55' 003"~~	Time GPS position: :
Depth: (m)	CTD dropped to (m): 300 m	Station# 011 WP# 048
Comments: CTD left on, turned off @ 1527 downloaded 4/7		Location: Tarr Inlet
Tide Low height: .08 Time since Low: 2012 -364	Tide High height: 5.06 Time since High: 1	
Sampling: Oceanography Sonic Bottom Dive Other:	Tide Station: Composite	

Cast Name: C1 010806 (CTD id / Dump # / Cast #)	Date: 2003 04 02 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 15:53 AKST or AKDT
Lat: (decimal degrees) 58.86475 (°,',"): ~~58° 51' 885~~	Lon: (decimal degrees) -136.59225 (°,',"): ~~-136° 35' 535~~	Time GPS position: 15:52
Depth: (m) 426m	CTD dropped to (m): 300	Station# 008 WP# 049
Comments: also waypt. 050 (58° 51' 873" -136° 35' 473") downloaded 4/7		Location: S of Rendu
Tide Low height: .08 Time since Low: 2012 -259	Tide High height: 5.06 Time since High: 1407 106	
Sampling: Oceanography Sonic Bottom Dive Other:	Tide Station: Composite	

Cast Name: C1 010807 (CTD id / Dump # / Cast #)	Date: 2003 04 02 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 16:44 AKST or AKDT
Lat: (decimal degrees) 58.81172 (°,',"): ~~58° 48' 703"~~	Lon: (decimal degrees) -136.47318 (°,',"): ~~-136° 28' 391~~	Time GPS position: :
Depth: (m) 383	CTD dropped to (m): 300 m	Station# 007 WP# 05[illegible]
Comments: downloaded 4/7		Location: Not Blue Mouse ~~[illegible]~~
Tide Low height: .08 Time since Low: 2021 -217	Tide High height: 5.06 Time since High: 1407 157	
Sampling: Oceanography Sonic Bottom Dive Other:	Tide Station: Composite	

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: J. de La B., K.C., P.V., HR. on Alaskan Gyre Logbook Page: 7

Cast Name:	Date:	Time CTD on (24-hr clock):
C1010900 (CTD id / Dump # / Cast #)	20030402 (Y Y Y Y M M D D)	18:08 AKST or AKDT
Lat: (decimal degrees) 58.70417 (°,',"): ~~58° 42' 25.0"~~	Lon: (decimal degrees) -136.23222 (°,',"): ~~136° 13' 933"~~	Time GPS position: 18:07

Depth: (m) 366 | CTD dropped to (m): 300 | Station# 005 | WP# 052

Comments:

Location: Between N Drake and SV Tlingit Pt.

Tide Low height: .08 Time since Low: -123 (2011) | Tide High height: 4.91 Time since High: 245 (1403)

Sampling: Oceanography Sonic Bottom Dive Other: | Tide Station: Willoughby

Cast Name:	Date:	Time CTD on (24-hr clock):
C1010901 (CTD id / Dump # / Cast #)	20030402 (Y Y Y Y M M D D)	19:32 AKST or AKDT
Lat: (decimal degrees) 58.65757 (°,',"): ~~58° 39' 454"~~	Lon: (decimal degrees) -136.36518 (°,',"): ~~-136° 21' 911"~~	Time GPS position: 19:31

Depth: (m) 155 | CTD dropped to (m): 150 | Station# 022 | WP# 053

Comments:

Location: Mouth of Geikie

Tide Low height: .08 Time since Low: -39 (2011) | Tide High height: 4.91 Time since High: 329 (1403)

Sampling: Oceanography Sonic Bottom Dive Other: | Tide Station: Willoughby

Cast Name:	Date:	Time CTD on (24 hr clock):
C1010902 (CTD id / Dump # / Cast #)	20030403 (Y Y Y Y M M D D)	07:56 AKST or AKDT
Lat: (decimal degrees) 58.59888 (°,',"): ~~58° 35' 933~~	Lon: (decimal degrees) -136.50355 (°,',"): ~~136° 30' 215"~~	Time GPS position: 07:37

Depth: (m) 66 | CTD dropped to (m): 60 | Station# 023 | WP# 054

Comments: Off Station → Ice

Location: Head of Geikie

Tide Low height: -0.25 Time since Low: -38 (0834) | Tide High height: 5.13 Time since High: 343 (0213)

Sampling: Oceanography Sonic Bottom Dive Other: | Tide Station: Willoughby

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: JdeLaB, KC, PV, HR on Alaskan Gyre Logbook Page: 8

Cast Name: C201070ϕ (CTD id / Dump # / Cast #)

Date: 2003040 3 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 07:38 AKST or AKDT

Time GPS position: 07:37

Lat: (decimal degrees) 58.59888 (°,',"): ~~58° 35' 93"~~

Lon: (decimal degrees) −136.50355 (°,',"): ~~136° 30' 213"~~

Depth: (m) 64m

CTD dropped to (m): 60m

Station# 023

WP# 054

Comments: off station due to pan ice downloaded 4/7

Location: Head of Geikie

Tide Low height: −0.25 **Time since Low:** −56 (0834) **Tide High height:** 5.13 **Time since High:** 325 (0213)

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

---

Cast Name: C

Date:

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

Time GPS position: :

Lat: (decimal degrees) . (°,',"):

Lon: (decimal degrees) . (°,',"):

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: **Tide Station:**

Cast Name: C101090 3 (CTD id / Dump # / Cast #)

Date: 2003040 3 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 12:15 AKST or AKDT

Time GPS position: 12:14

Lat: (decimal degrees) 58.65082 (°,',"): ~~58° 39' 049"~~

Lon: (decimal degrees) −136.11502 (°,',"): ~~136° 06' 901"~~

Depth: (m) 288m

CTD dropped to (m): 260m

Station# 004

WP# 056

Comments: flooding slack w/ slow ? ?

Location: N of Drake, N of Marble

Tide Low height: −0.25 (0834) **Time since Low:** 221 **Tide High height:** 4.78 **Time since High:** 1435 (~~1110~~)

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

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: JdeLaB, KC, PV, HR on Alaskan Gyre Logbook Page: 9

Cast Name: C1010904 (CTD id / Dump # / Cast #)	Date: 20020403 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 13:12 AKST or AKDT
Lat: (decimal degrees) 58.57163 (°,',"): ~~58° 34' 298"~~	Lon: (decimal degrees) -136.06505 (°,',"): ~~136° 03' 903"~~	Time GPS position: 13:11
Depth: (m) 147m	CTD dropped to (m): 100m	Station# 003 / WP# 056
Comments: flooding slack high series		Location: SE of Willoughby
Tide Low height: -0.25 Time since Low: 278 (0834)	Tide High height: 4.78 Time since High: -83 (1485)	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Willoughby

Cast Name: C1010905 (CTD id / Dump # / Cast #)	Date: 20030403 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 14:22 AKST or AKDT
Lat: (decimal degrees) 58.48997 (°,',"): 58°29'398"	Lon: (decimal degrees) -136.05157 (°,',"): ~~136°03'094"~~	Time GPS position: 14:21
Depth: (m) 93	CTD dropped to (m): 80	Station# 002 / WP# 057
Comments: slack high series		Location: Sitakadau Narrows
Tide Low height: -0.28 Time since Low: 372 (0810)	Tide High height: 4.35 Time since High: -28 (1422)	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Bartlett

Cast Name: C1010906 (CTD id / Dump # / Cast #)	Date: 20030403 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 15:13 AKST or AKDT
Lat: (decimal degrees) 58.41265 (°,',"): ~~58° 21' 753"~~	Lon: (decimal degrees) -135.99488 (°,',"): ~~135° 59'695~~	Time GPS position: 15:12
Depth: (m) 65m	CTD dropped to (m): 60m	Station# 001 / WP# 058
Comments: ebbing slack high series		Location: Mouth of Glacier Bay
Tide Low height: .28 Time since Low: -302 (2015)	Tide High height: 4.35 Time since High: 51 (1422)	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Bartlett

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Hope Rieden on Alaskan Gyre

Name: Jim de La Bruere, Kevin Clement, Phoebe Vansickle

** Waypoint Datum: NAD 83

Logbook Page: 10

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

Date: 2003 04 03 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 16:11 AKST or AKDT

Time GPS position: 16:10

Lat: (decimal degrees) 58.32673 (°,',"): ~~58° 19' 604"~~

Lon: (decimal degrees) -135.87508 (°,',"): ~~-135° 52' 808"~~

Depth: (m) 55m

CTD dropped to (m): 50m

Station# 0 0 0 0 5 9

WP#

Comments: ebbing Stack high seins

Location: Icy Strait

Tide Low height: 0.49 **Time since Low:** 327 (1968)

Tide High height: 3.65 **Time since High:** 125 (1404)

Sampling: (Oceanography) Sonic Bottom Dive Other: **Tide Station:** Lemesurier

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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

Time GPS position: :

Lat: (decimal degrees) (°,',"):

Lon: (decimal degrees) (°,',"):

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: **Tide Station:**

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

Time GPS position: :

Lat: (decimal degrees) (°,',"):

Lon: (decimal degrees) (°,',"):

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: **Tide Station:**

Oceanography

March/April 2003 on Alaskan Gyre

Jim de la Bruere, Phoebe Vanselow, Kevin Clement, Hope Ricken

31 March → left dock ~ 0640, weather partly cloudy some sun ☺ SE wind

→ STN 00 at 0820 using CTD 1 → 40 min after target time

→ STN 01 at 0915 using CTD 1 → 35 min after target time.

→ STN 02 at 0956 (41 min travel time!) using CTD 1 → 10 min after target time
slow to retrieve (learning to coil)

→ STN 03 at 1025 (29 min travel time) using CTD 1 → 15 min before target time.
snow small/flurry - lots o' otters.

→ STN 04 at 1121 (56 min travel time) using CTD 1 → 19 min before target time
still snowing, getting rough/choppy blowing north.

→ STN 13 at 1222 (61 min travel time) using CTD 1
still "lumpy" but looking to improve up farther

→ STN 14 at 1306 (44 min travel time) using CTD 1
calming, snowy conditions drop visibility.

→ STN 16 at 1420 (74 min travel time)
calming, still breezy from N.
sun beginning to show in south.

→ STN 17 at 1518 (58 min travel time)
N breeze, clearing up.

Universal Sea State Code
Beaufort Scale
White caps ~ 20kts
streaking ~ 25kts
throwing waves ~ 30-35 kts

→ STN 18 at 1620
cast was fine but turning back down the arm to main bay b/c of windy conditions.
Nice & sunny though.

Checked CTD before turning around.
It contained all 10 casts.
→ Down loaded | initialized CTD - all casts look good as .hex files

1 April 2003
→ anchored in Seabrees Cove, 25 to 30 kts winds will wait it out a while.

2 April 2003
→ 0615 - underway to stn 05; forecast calls for gales; moving toward stn 06 to get an idea of conditions...

→ STN 06 at 0715. skipped #05 for now, will catch on way back down.
Clear skys, 20-25 knots out of North.
Cast went smoothly

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March/April 2003 Oceanography, cont.

→ arrive near STN 07 0816; passing by STN due to 3 ft seas. Will catch on way down

→ pass just South of STN 08 @ 0916. spray freezing on front windows. Seas picking up. Brought CTD inside, just in case.... Still gorgeously sunny

generalized park topo map.

digital camera.

→ STN 09 at 0956 still pretty windy...

Ibach Cabin: relatively ice free, snow to high tide line

→ STN 10 @ 1045

→ pass STN 11 @ 1150 seas/winds picking up. Maybe pick up on way down?

→ pass STN 12 at 1230 - will pick up on way down-hill

→ STN 21 at 1253 a little less windy by the glacier.

05	10	16	21
06	11	17	22
07	12	18	23
08	13	19 skip	
09	14	20 skip	

Still need:

00, 01, 02, 03, 04 - slack high.

05 - ~~[illegible]~~ Drake/Tlingit

08 - Not Blue Mouse, W of Tidal

08 - S of Rendu

22 - Mouth of Geikie

23 - Head of Geikie

→ STN 12 at 1319
wind still heavy

→ STN 11 at 1408
going back down past NE side of Russell hoping for wind protection.
CTD left on accidentally until 1530
✓'d memory - ok for 2 more casts (08 and 07) and then will down load between them and 05, 22, 23

Plan to do a CTD2 cast for 22 or 23 b/c not too deep and sheltered from weather.

→ STN 8 at 1553, two waypoints saved 049 and 050

→ STN 9 at 1644

downloaded today's (so far) casts look ok
Notice that LONG/LAT are swapped in Sea Bird Headers!!

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March / April 2003 Oceanography, cont.

Gyre Computer	SeaBird Associated Tasks
→	update SeaBird Software
→	clean up hard drives of old .hex files (do we need these? Stored 2 other places.)
→	fix headers to include proper spaces and LONG ⇔ LAT mix-up. (Anything else?)
→	STN 05 @ 1808
→	STN 22 @
→	STN 23 @ CTD 1 and 2 casts
→	Save for tomorrow

3 April 2003

(STN 23 both CTDs
STNS 00-04 CTD #1)

0727 - Sunny - cool Some pan ice anchored in Geikie Inlet.

arrive at STN 23 at 0735
pan ice everywhere, off STN due to it.
deploy CTD 2 first, then CTD 1
→ hose still difficult → contact SeaBird again??
→ seems fine otherwise (so far)

→ Contact Li-Cor re: new caps.

pesky N winds in Main Bay 0852
waiting for tide in Geikie

-6- •relabel CTD line•

*need to be sure to double check hex files:
- note header corrections
- comments entered?

SLACK FLOOD CYCLE 3 April 2003 underway again ~1120
Clear, SUNNY, wind out of N ~25 kts.

→ arrive STN 04 at 1215 (5 min ahead of target time)
wind is diminishing - could see The knob on Pleasant Island from just N. of Drake Is. (~48 km!!)

→ arrive STN 03 at 1312 (8 min ahead of target time)
wind picking up.

→ arrive STN 02 at 1420 (exactly on time! :) !)
still flooding though ≈ Tides & Currents are for planning purposes only...

→ arrive STN 01 at 1513 (7 min ahead of target time)

→ arrive STN 00 at 1608 (12 min ahead of target)

Triton-X'd & rinsed both CTD's

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OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: Hope Rieden & Lisa Etherington Logbook Page: 1

Drifted a bit after waypoint problems w/ hydraulics

Cast Name:	Date:	Time CTD on (24-hr clock):
C2011000 (CTD id / Dump # / Cast #)	20030604 (Y Y Y Y M M D D)	16:13 AKST or AKDT
Lat: (decimal degrees) 58.32635 (°,',"): ~~58°19.581~~	Lon: (decimal degrees) -135.87535 (°,',"): ~~-135°52.521~~	Time GPS position: 16:09

Depth: (m) 53m | CTD dropped to (m): 40m | Station# 00 | WP# 60

Comments: A bit slower than 1m/sec (working out problems w/ hydraulics)

Location: Icy Strait

Tide Low height: -.23 Time since Low: 330 (1043) | Tide High height: 3.10 Time since High: 75 (1728)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Lemesuirer

Cast Name:	Date:	Time CTD on (24-hr clock):
C2011001 (CTD id / Dump # / Cast #)	20030604 (Y Y Y Y M M D D)	: AKST or AKDT
Lat: (decimal degrees) (°,',"): * doesn't actually exist.	Lon: (decimal degrees) . (°,',"):	Time GPS position: :

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

Comments: BAD CAST → turned on & off by accident

Location: Bad cast

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

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

Cast Name:	Date:	Time CTD on (24 hr clock):
C2011001 (CTD id / Dump # / Cast #)	20030604 (Y Y Y Y M M D D)	16:54 AKST or AKDT
Lat: (decimal degrees) 58.41248 (°,',"): ~~58°24.749'~~	Lon: (decimal degrees) -135.99487 (°,',"): ~~-138°59.692'~~	Time GPS position: 16:53

Depth: (m) 62 | CTD dropped to (m): 50 | Station# 001 | WP# 061

Comments: not consistent with lowering speed of hydraulics

Location: Mouth of GLBA

Tide Low height: -.20 Time since Low: 361 (1053) | Tide High height: 3.62 Time since High: -32 (1726)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Bartlett

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: HR & LLG on Sigma-E

Logbook Page: 2

Cast Name: C2011003 (CTD id / Dump # / Cast #)

Date: 20030604 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 17:27 AKST or AKDT

Time GPS position: 17:25

Lat: (decimal degrees) 58.49 (°,',"): ~~58°29.400'~~

Lon: (decimal degrees) -136.05165 (°,',"): ~~136°03.099'~~

Depth: (m) 92m

CTD dropped to (m): 80m

Station# 02

WP# 62

Comments:

Location: Sitakaday

Tide Low height: 1.55 (2258) Time since Low: -331

Tide High height: 3.62 Time since High: 1

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Bartlett

Cast Name: C2011003 (CTD id / Dump # / Cast #)

Date: 20030604 (Y Y Y Y M M D D)

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

Time GPS position: :

Lat: (decimal degrees) . (°,',"):

Lon: (decimal degrees) . (°,',"):

Depth: (m)

CTD dropped to (m):

Station#

WP#

Comments: Weird cast - kept falling off, redid entire cast as C2011005

Location: bad cast

Tide Low height: Time since Low:

Tide High height: Time since High:

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station:

Cast Name: C2011004 (CTD id / Dump # / Cast #)

Date: 20030604 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 18:08 AKST or AKDT

Time GPS position: 18:07

Lat: (decimal degrees) 58.57162 (°,',"): ~~58°34.297'~~

Lon: (decimal degrees) -136.06483 (°,',"): ~~-136°03.890'~~

Depth: (m) 112

CTD dropped to (m): 110

Station# 003

WP# 063

Comments: re cast of C2011004, use this one for processing.

Location: SE of Willoughby

Tide Low height: 1.58 Time since Low: -314 (2322)

Tide High height: 4.05 Time since High: 29 (1757)

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Willoughby

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD-83

Name: WE/HR on Sigma-t

Logbook Page: 3

Cast Name: C 2 0 1 1 0 0 6 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 6 0 4 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 18:36 AKST or AKDT

Time GPS position: 18:35

Lat: (decimal degrees) 58.65085 (°,',"): ~~58° 39.051'~~

Lon: (decimal degrees) -136.11497 (°,',"): ~~-136° 06.890'~~

Depth: (m) 288

CTD dropped to (m): 280

Station# 004 **WP#** 064

Comments:

Location: N. of Drake N of Marble

Tide Low height: 1.58 **Time since Low:** 286 **Tide High height:** 4.05 **Time since High:** 57

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

---

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

Time GPS position: :

Lat: (decimal degrees) . (°,',"):

Lon: (decimal degrees) . (°,',"):

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: **Tide Station:**

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

Time GPS position: :

Lat: (decimal degrees) . (°,',"):

Lon: (decimal degrees) . (°,',"):

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: **Tide Station:**

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum:

Name:_____ Logbook Page: _____

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 : Tide Station:

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 : Tide Station:

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 : Tide Station:

June 2003 Oceanography 4 June 2003

- paint hydraulics on G2
- Nav. rules book?

left outer dock ~ 1515 pm

weather - overcast, threatening rain, ~ low 60s / high 50s °F

2600 rpm for 11.5 knots
(Lower Bay "special" whale waters 13 kt limit)
2800 rpm for 12.8 to 13.0 knots

marking front at mouth Glacier Bay
waypoint #25 & then followed into GBA
330° heading after hit waypoint
#25 on Garmin GPS
having trouble w/ GPS

STN #01 @ 16:54
left station about 17:09

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OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: Lia Herron & Hope Rieden on Sigma-t Logbook Page: 1

Cast 0

Cast Name: C2011100 (CTD id / Dump # / Cast #)	Date: 20030708 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 10:47 AKST or AKDT
Lat: (decimal degrees) 58.7913 (°,',"): ~~58° 47.478'~~	Lon: (decimal degrees) -136.11015 (°,',"): ~~136° 06.609'~~	Time GPS position: 10:46
Depth: (m) [illegible]	CTD dropped to (m): 80	Station# 014 / WP# Garmin 026 025
Comments: fell off block ~10m, recovered [illegible] Sat at 80m for a while...		Location: Muir Sill [illegible]
Tide Low height: .99 Time since Low: -273 (1520)	Tide High height: 3.85 Time since High: 89 (0918)	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Muir Tides

Cast 1

Cast Name: C2011101 (CTD id / Dump # / Cast #)	Date: 20030708 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:16 AKST or AKDT
Lat: (decimal degrees) 58.73205 (°,',"): ~~58° 43.923'~~	Lon: (decimal degrees) -136.11517 (°,',"): ~~136° 06.910'~~	Time GPS position: 11:15
Depth: (m) 146	CTD dropped to (m): 130	Station# 013 / WP# 27 26
Comments: drifted a little during cast		Location: [illegible] SE Tlingit, NW of Sturgess
Tide Low height: .99 Time since Low: -244 (1520)	Tide High height: 3.85 Time since High: 118 (0918)	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Muir Tides

Cast 2

Cast Name: C2011102 (CTD id / Dump # / Cast #)	Date: 20030708 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 12:11 AKST or AKDT
Lat: (decimal degrees) 58.59765 (°,',"): ~~58° 35.859'~~	Lon: (decimal degrees) -136.50822 (°,',"): ~~136° 30.493'~~	Time GPS position: 12:10
Depth: (m) 66	CTD dropped to (m): 50	Station# 023 / WP# 28 27
Comments:		Location: Head of Geikie
Tide Low height: .99 Time since Low: -186 (1517)	Tide High height: 3.70 Time since High: 178 (0923)	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Willoughby Tides

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LH & HR on 67 Logbook Page: 2

Cast 3

Cast Name: C2011103 (CTD id / Dump # / Cast #)	Date: 20030708 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 12:37 AKST or AKDT
Lat: (decimal degrees) 58.65730 (°,',"): ~~58° 39.438'~~	Lon: (decimal degrees) -136.36718 (°,',"): ~~136° 22.031~~	Time GPS position: 12:36
Depth: (m) 155m	CTD dropped to (m): 140	Station# 022 / WP# 29 28
Comments:		Location: Mouth of Geikie
Tide Low height: .99 Time since Low: ~~[illegible]~~ 1517 -166	Tide High height: 3.7 Time since High: 0913 204	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Willoughby Tides

Cast 4

Cast Name: C2011104 (CTD id / Dump # / Cast #)	Date: 20030708 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 13:08 AKST or AKDT
Lat: (decimal degrees) 58.75882 (°,',"): ~~58° 45.529'~~	Lon: (decimal degrees) -136.35373 (°,',"): ~~136° 21.224'~~	Time GPS position: 13:07
Depth: (m) 288m	CTD dropped to (m): 270m	Station# 006 / WP# 30 29
Comments:		Location: E of Hugh Miller Inlet
Tide Low height: .99 Time since Low: 1518 -130	Tide High height: 3.85 Time since High: 0917 231	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Composite

Cast 5

Cast Name: C2011105 (CTD id / Dump # / Cast #)	Date: 20030708 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 13:41 AKST or AKDT
Lat: (decimal degrees) 58.70370 (°,',"): ~~58° 42.222'~~	Lon: (decimal degrees) -136.23517 (°,',"): ~~136° 14.110'~~	Time GPS position: 13:40
Depth: (m) 366	CTD dropped to (m): 300	Station# 005 / WP# 31 30
Comments:		Location: Between N Drake & SW Tlingit
Tide Low height: .99 Time since Low: 1517 -96	Tide High height: 3.70 Time since High: 0913 268	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Willoughby

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LH & HR on Mr T Logbook Page: 3

Cast Name: C2011106 (CTD id / Dump # / Cast #)
Date: 20030708 (Y Y Y Y M M D D)
Time CTD on (24-hr clock): 16:37 AKST or AKDT
Lat: (decimal degrees) 58.32657 (°,',"): ~~58° 19.594'~~
Lon: (decimal degrees) -135.87657 (°,',"): ~~135° 52.594'~~
Time GPS position: 16:35

Depth: (m) 53
CTD dropped to (m): 50
Station# 000
WP# 32 31

Comments: peak flood run
Location: Icy Strait

Tide Low height: .69 Time since Low: +130 (1427)
Tide High height: 3.76 Time since High: -257 (2054)
Sampling: Oceanography Sonic Bottom Dive Other:
Tide Station: Lemesurier

Cast Name: C2011107 (CTD id / Dump # / Cast #)
Date: 20030708 (Y Y Y Y M M D D)
Time CTD on (24-hr clock): 17:11 AKST or AKDT
Lat: (decimal degrees) 58.41247 (°,',"): ~~58° 24.748'~~
Lon: (decimal degrees) -135.99662 (°,',"): ~~135° 59.797~~
Time GPS position: 17:10

Depth: (m) 62
CTD dropped to (m): 50
Station# 001
WP# 33 32

Comments: flood
Location: Mouth of GLBA

Tide Low height: .96 Time since Low: 135 (1453)
Tide High height: 4.41 Time since High: -244 (2115)
Sampling: Oceanography Sonic Bottom Dive Other:
Tide Station: Bartlett

Cast Name: C2011108 (CTD id / Dump # / Cast #)
Date: 20030708 (Y Y Y Y M M D D)
Time CTD on (24 hr clock): 17:36 AKST or AKDT
Lat: (decimal degrees) 58.48960 (°,',"): 58° 29.376'
Lon: (decimal degrees) -136.05355 (°,',"): ~~136° 03.213'~~
Time GPS position: 17:35

Depth: (m) 93
CTD dropped to (m): 80
Station# 002
WP# 34 33

Comments: peak flood
Location: Sitakaday

Tide Low height: .96 Time since Low: 160 (1453)
Tide High height: 4.41 Time since High: -219 (2115)
Sampling: Oceanography Sonic Bottom Dive Other:
Tide Station: Bartlett

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LH & HL on 62 Logbook Page: 4

Cast 8

Cast Name: C 4 0 1 1 1 0 8 (CTD id / Dump # / Cast #)

Date: 2003 07 08 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 18:03 AKST or AKDT

Lat: (decimal degrees) 58.57142

(°,',"): ~~58° 34.285'~~

Lon: (decimal degrees) -136.066695

(°,',"): ~~136° 04.017'~~

Time GPS position: 18:01

Depth: (m) 117

CTD dropped to (m): 100

Station# 003

WP# 035 034

Comments: peak flood

Location: SE Willoughby

Tide Low height: .99 Time since Low: 1517 1666

Tide High height: 4.84 Time since High: 2228 -305

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Willoughby

Cast 10

Cast Name: C 2 0 1 1 1 0 8 (CTD id / Dump # / Cast #)

Date: 2003 07 08 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 18:31 AKST or AKDT

Lat: (decimal degrees) 58.650466

(°,',"): ~~58° 39.028'~~

Lon: (decimal degrees) -136.116665

(°,',"): ~~136° 06.999'~~

Time GPS position: 18:30

Depth: (m) 288

CTD dropped to (m): 230

Station# 004

WP# 036 035

Comments: peak flood

Location: N Drake, N Marble

Tide Low height: .99 Time since Low: 1517 194

Tide High height: 4.84 Time since High: 2128 -260

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Willoughby

Cast

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:

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

Waypoint Datum: NAD 83

Name: LH & HR on Gz

Logbook Page: 5

OFF

Cast Name:	Date:	Time CTD on (24-hr clock):
C2011110 (CTD id / Dump # / Cast #)	20030709 (Y Y Y Y M M D D)	11:51 AKST or AKDT
Lat: (decimal degrees) 58.8112 (°,',"): ~~58° 48.672'~~	Lon: (decimal degrees) -136.47513 (°,',"): ~~136° 28.508'~~	Time GPS position: 11:49

Depth: (m) 433 | CTD dropped to (m): 300 | Station# 007 | WP# 37 36

Comments: switch only halfway on when reaching surface.. didn't show up

Location: Not Blue Mouse, W of Tidal

Tide Low height: 1.14 Time since Low: 1627 -276 | Tide High height: 3.90 Time since High: 1039 90

Sampling: Oceanography Sonic Bottom Dive Other: Composite

Cast 12

Cast Name:	Date:	Time CTD on (24-hr clock):
C2011112 (CTD id / Dump # / Cast #)	20030709 (Y Y Y Y M M D D)	14:11 AKST or AKDT
Lat: (decimal degrees) 58.89893 (°,',"): 58° ~~[illegible]~~ 53.936'	Lon: (decimal degrees) -136.84205 (°,',"): ~~136° [illegible]~~ 50.523'	Time GPS position: 14:10

Depth: (m) 361 | CTD dropped to (m): 300 | Station# 010 | WP# 38 37

Comments: switched off @ surface

Location: N Reid Inlet

Tide Low height: 1.14 Time since Low: 1627 -736 | Tide High height: 3.90 Time since High: 1039 230

Sampling: Oceanography Sonic Bottom Dive Other: Composite Tides

Cast Name:	Date:	Time CTD on (24 hr clock):
C2011111 (CTD id / Dump # / Cast #)	20030709 (Y Y Y Y M M D D)	14:25 AKST or AKDT
Lat: (decimal degrees) 58.89893 (°,',"): ~~58° [illegible] 53.936'~~	Lon: (decimal degrees) -136.84205 (°,',"): ~~136° [illegible] 50.523~~	Time GPS position: 14:10

Depth: (m) 361 | CTD dropped to (m): 300 | Station# 010 | WP# 03 [illegible]

Comments: repeat of C2011112 Switchoff again!?! didn't show up

Location: [illegible] N Reid Inlet

Tide Low height: 1.14 Time since Low: 1627 -122 | Tide High height: 3.90 Time since High: 1039 244

Sampling: Oceanography Sonic Bottom Dive Other: Composite Tides

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LH & HR

Logbook Page: 6

Cast 12

Cast Name: C 2 0 1 1 1 1 [redacted] 2 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 7 0 9 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 14:51 AKST or AKDT

Lat: (decimal degrees) [redacted] 58.8976 (°,',"): ~~58°53.856'~~

Lon: (decimal degrees) -136.73862 (°,',"): ~~136°44.317'~~

Time GPS position: 14:50

Depth: (m) 377

CTD dropped to (m): 800m

Station# 009

WP# Garmin 39 038

Comments: Switched off, again, at surface.

Location: SE Russell

Tide Low height: 1.14 Time since Low: -156 (1627)

Tide High height: 3.90 Time since High: 252 (1039)

Sampling: Oceanography Sonic Bottom Dive Other: Composite Tides

Cast 13

Cast Name: C 2 0 1 1 1 1 [redacted] 3 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 7 0 8 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 15:26 AKST or AKDT

Lat: (decimal degrees) 58.8647 (°,',"): ~~58°51.882'~~

Lon: (decimal degrees) -136.5952 (°,',"): ~~136°35.712'~~

Time GPS position: 15:25

Depth: (m) 426

CTD dropped to (m): 300m

Station# 008

WP# Garmin 40 039

Comments: stayed "on" this time!!

Location: S of Rendu Inlet

Tide Low height: 1.14 Time since Low: -61 (1627)

Tide High height: 3.90 Time since High: 287 (1039)

Sampling: Oceanography Sonic Bottom Dive Other: Composite Tides

14

Cast Name: C 2 0 1 1 1 1 5 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 7 1 0 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 10:31 AKST or AKDT

Lat: (decimal degrees) 58.32636 (°,',"): ~~58°19.582'~~

Lon: (decimal degrees) -135.87722 (°,',"): ~~135°52.633'~~

Time GPS position: 10:30

Depth: (m) 53

CTD dropped to (m): 40

Station# 000

WP# 040

Comments: Cast #14 – Bad cast cap left on slack high series

Location: Icy Strait

Tide Low height: -.54 Time since Low: 275

Tide High height: 3.16 Time since High: -117

Sampling: Oceanography Sonic Bottom Dive Other: Lemesurier

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LH & HR on 6z BAD

Logbook Page: 7

Cast Name: C2011117 (CTD id / Dump # / Cast #)	Date: 20030710 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 10:30 AKST or AKDT
Lat: (decimal degrees) 58.32637 (°,',"): ~~58° 19.582'~~	Lon: (decimal degrees) -135.87722 (°,',"): ~~135° 52.633'~~	Time GPS position: 10:35
Depth: (m) 53	CTD dropped to (m): 40	Station# 00 / WP# 41 040

Comments: recast of #14 & 15 ~~dort~~ #16 - off & on #17 came up off!

Location: Ky Strait

Tide Low height: -0.26 Time since Low: 331 (0459) | Tide High height: 300 Time since High: -55 (1125)

Sampling: Oceanography Sonic Bottom Dive Other: Lemesurier

BAD

Cast Name: C2011118 (CTD id / Dump # / Cast #)	Date: 20030710 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:03 AKST or AKDT
Lat: (decimal degrees) 58.41210 (°,',"): ~~58° 24.726'~~	Lon: (decimal degrees) -135.99675 (°,',"): ~~135° 59.805'~~	Time GPS position: 11:02
Depth: (m) ~~[illegible]~~ 62	CTD dropped to (m): ~~[illegible]~~ 50	Station# 001 / WP# 42 41

Comments: switch off @ surface!?! Switch is loose! Slack High Series

Location: Mouth of GLBA

Tide Low height: -.20 Time since Low: 353 (0510) | Tide High height: 3.54 Time since High: -32 (1135)

Sampling: Oceanography Sonic Bottom Dive Other: Bartlett

BAD

Cast Name: C2011119 (CTD id / Dump # / Cast #)	Date: 20030710 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 11:40 AKST or AKDT
Lat: (decimal degrees) 58.48977 (°,',"): ~~58° 29.386'~~	Lon: (decimal degrees) -136.05355 (°,',"): ~~136° 03.213'~~	Time GPS position: 11:37
Depth: (m) 93	CTD dropped to (m): 80	Station# 002 / WP# 43 42

Comments: Switch tightened - hopefully turned on/off a few times this will work...

Location: Sitka day

Tide Low height: 1.12 Time since Low: -327 (1707) | Tide High height: 3.54 Time since High: 5 (1125)

Sampling: Oceanography Sonic Bottom Dive Other: Bartlett

BAD

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LH & HR on Sz

Logbook Page: 8

BAD

Cast Name:	Date:	Time CTD on (24-hr clock):
C 2 0 1 1 1 2 0 (CTD id / Dump # / Cast #)	2 0 0 3 0 7 1 0 (Y Y Y Y M M D D)	1 2 : 1 5 AKST or AKDT
Lat: (decimal degrees) 5 8 . 5 7 1 3 5 (°,',"): 58° 34.281	Lon: (decimal degrees) -1 3 6 . 0 6 6 9 (°,',"): 136° 04.014'	Time GPS position: 1 2 : 1 4

Depth: (m)	CTD dropped to (m):	Station#	WP#
112	100	0 0 3	4 3

Comments: BAD

Location: Not Willoughby

Tide Low height: 1.15 Time since Low: 1731 -316 | Tide High height: 3.96 Time since High: 1148 27

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby

Cast Name:	Date:	Time CTD on (24-hr clock):
C 2 0 1 1 1 2 1 (CTD id / Dump # / Cast #)	2 0 0 3 0 7 1 0 (Y Y Y Y M M D D)	1 2 : 3 9 AKST or AKDT
Lat: (decimal degrees) 5 8 . 6 5 0 6 (°,',"): ~~58° 39.036'~~	Lon: (decimal degrees) -1 3 6 . 1 1 7 0 5 (°,',"): ~~136° 07.023'~~	Time GPS position: 1 2 : 3 8

Depth: (m)	CTD dropped to (m):	Station#	WP#
288	280	0 0 4	4 4 45

Comments: Slack high series

Location: Not Drake, Not McNob

Tide Low height: 1.15 Time since Low: 1731 -292 | Tide High height: 3.96 Time since High: 1148 51

Sampling: Oceanography Sonic Bottom Dive Other: Willoughby

Cast Name:	Date:	Time CTD on (24 hr clock):
C (CTD id / Dump # / Cast #)	(Y Y Y Y M M D D)	: 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:

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: Bruce McDonough, Bob Vathke, Hope Rieden on Sigma-t Logbook Page: 9

Cast Name:	Date:	Time CTD on (24-hr clock):
C1011200 (CTD id / Dump # / Cast #)	20030711 (Y Y Y Y M M D D)	10:21 AKST or AKDT
Lat: (decimal degrees) 58.89547 (°,',"): ~~58° 53.728'~~	Lon: (decimal degrees) -136.09522 (°,',"): ~~136° 05.713'~~	Time GPS position: 10:21

Depth: (m) 313 CTD dropped to (m): 300 Station# 016 WP# 46 045

Comments:

Location: E of Hunter Cove

Tide Low height: -.59 Time since Low: 0634 227 Tide High height: 4.4 Time since High: 1256 -155

Sampling: Oceanography Sonic Bottom Dive Other: Muir

Cast Name:	Date:	Time CTD on (24-hr clock):
C1011201 (CTD id / Dump # / Cast #)	20030711 (Y Y Y Y M M D D)	11:15 AKST or AKDT
Lat: (decimal degrees) 59.04962 (°,',"): ~~59° 02.977'~~	Lon: (decimal degrees) -136.1868 (°,',"): ~~136° 11.208'~~	Time GPS position: 11:14

Depth: (m) 212 CTD dropped to (m): 200 Station# 018 WP# 45 046

Comments:

Location: S of Riggs, NW of McBride

Tide Low height: -.59 Time since Low: 0634 281 Tide High height: 4.4 Time since High: 1256 -101

Sampling: Oceanography Sonic Bottom Dive Other: Muir Tides

Cast Name:	Date:	Time CTD on (24 hr clock):
C1011202 (CTD id / Dump # / Cast #)	20030711 (Y Y Y Y M M D D)	11:47 AKST or AKDT
Lat: (decimal degrees) 59.08576 (°,',"): ~~59° 05.146'~~	Lon: (decimal degrees) -136.37273 (°,',"): ~~136° 22.364'~~	Time GPS position: 11:47

Depth: (m) 179 CTD dropped to (m): 160 Station# 020 WP# 46 47

Comments: tons of sediment in water

Location: Muir Head of

Tide Low height: -.59 Time since Low: 0634 313 Tide High height: 4.4 Time since High: 1256 -69

Sampling: Oceanography Sonic Bottom Dive Other: Muir Tides

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: BM, BV, & HR on Gt

Logbook Page: 10

Cast Name: C1 0 1 1 2 0 3 (CTD id / Dump # / Cast #)	Date: 2 0 0 3 0 7 1 1 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 12:08 AKST or AKDT
Lat: (decimal degrees) 59.07123 (°,',"): ~~59° 04.274'~~	Lon: (decimal degrees) -136.3383 (°,',"): -136° 20.298'	Time GPS position: 12:07
Depth: (m) 225	CTD dropped to (m): 210	Station# 019 / WP# 49 048
Comments:		Location: Muir Inlet
Tide Low height: -.59	Time since Low: 0634 361	Tide High height: 4.4 / Time since High: 1256 -21
Sampling: Oceanography Sonic Bottom Dive Other: Muir		

Cast Name: C1 0 1 1 2 0 4 (CTD id / Dump # / Cast #)	Date: 2 0 0 3 0 7 1 1 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 12:47 AKST or AKDT
Lat: (decimal degrees) 58.97458 (°,',"): ~~58° 58.475'~~	Lon: (decimal degrees) -136.13862 (°,',"): ~~-136° 08.317'~~	Time GPS position: 12:46
Depth: (m) 212	CTD dropped to (m): 200m	Station# 017 / WP# 48 049
Comments:		Location: E of Westdahl Point
Tide Low height: -.59	Time since Low: 0634 370	Tide High height: 4.4 / Time since High: 1256 -9
Sampling: Oceanography Sonic Bottom Dive Other: Muir		

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:		

July Oceanography 2003

Tuesday 8 July 2003 w/ Liz Herron

engine hrs - start 665.1

both batteries on

weather - warm, overcast & clearing, flat calm

fluids/belts look good

fuel - added 23 gallons

float plan for MidBay, Geikie, LowBay

ETR - 1900 hrs

left dock in Barco @ 0855, head for STN14

0940 passed N tip of Strawberry Island

→ PLGR keeps shutting down, turn off batteries.

1010 pass STN 04

- STN 14 1045
- STN 13 1115

1137 pass STN 05 → going to Geikie

1150 pass STN 22

- STN 23 12:11
- STN 22 1236
- STN 06 1307
- STN 05 1340

1510 back to Barco

fuel - added ~30 gallons @ 671.8 hrs

left dock in Barco @ 1540, head for STN00

peak flood cycle

- STN 00 16 55 winds picking up in SE, choppy
- STN 01 1710
- STN 02 1736
- STN 03 1801
- STN 04 1830

return to dock @ 1950 hrs

engine hrs 0676.9 hrs

anchored out

Wednesday 9 July 2003 w/ Lia Herron

engine hrs start 676.9
both batteries on
added ATF, coolant
→ power steering acting up b/c wheel was turned too far in one direction.
fuel added 35 gallons

float plan for West Arm
ETR 1700

Redondo Weather - sunny!

left Barco @ 0940
* STN 07 1150 * switch off at surface (halfway on)

refuel @ Blue Mouse 1320 ~21 gallons
(drove almost to STN 08 to find Sand Lance to get fuel barge (combo) PETREL COMBO 0525
wind picking up in SW.

* STN 010 1411 *Switch off @ surface
recast 1425 * switch off again!?!

Skip 011, 012, 021 b/c of increasing winds.

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

* STN 009 1451 *Switch off @ surface
* STN 008 1526

returned to Berco 1740 ; engine hrs 684.4
left boat on dock

Thursday 10 July 2003 w/ Lia Herron
engine hrs start 684.4
#2 battery on
added engine oil, gear oil
→ power steering still really low
fuel - added 38 gallons

float plan for Icy Strait, Low/Mid Bay
ETR ~~1400~~ hrs 1500

weather - SUN! slight wind

left Berco 0940
* STN 00 1035
* STN 01 1102
* STN 02 1137
* STN 03 1214
* STN 04 1238 leave STN 04 @ 1250

return to Berco @ 1415 hrs
refuel x gallons

Friday 11 July 2003 w/ Bruce McDonough & Bob Vatter

engine hrs- start 6888.5
both batteries on b/c battery #1 dead
weather- warm, overcast, flat calm
fluids/belts look good
fuel - 35 gallons

float plan for East Arm
ETR - ~~1500 hrs~~ 1600 hrs

left Barco @ 0830, head for STN 16

* STN 016	1021	w/ CTD
skip	017 - get on way down	
* STN 018	1115	w/ CTD
skip	019 - get on way down	
* STN 020	1147	w/ CTD
* STN 019 ~~skip~~	1207	w/ CTD
* STN 017	1246	w/ CTD

depart E. Arm for Barco
arrive @ Barco ~ 1504 hrs
refuel 47 gal (now full)

done

* need more motor oil on board -> some in cache
* need to move 6t out to anchor, inner dock or pull out before 1200 on Monday.

J. L. DARLING CORP. TACOMA, WA 98421
(200) 383-1714 · FAX (200) 383-1722

~~Tues~~

~~Mid-bay~~ ~~14~~
~~18~~
~~06~~
~~05~~
~~23~~
~~22~~

~~peak flood~~ ~~00~~ ~~1640~~
~~01~~ ~~1720~~
~~02~~ ~~1750~~
~~03~~ ~~1810~~
~~04~~ ~~1840~~

Wednes

W. Arm 07
08
09
10
11
12
21

~~Thurs~~

slack 00 1030
01 1100
02 1130
03 1200
04 1230

Thurs

Fri E. Arm
16
17
18
19
20

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Waypoint Datum: NAD 83

Name: L. Etherington, H. Riesen, Sigma-T Logbook Page: 1

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

Date: 2003 (Y Y Y Y) 08 (M M) 18 (D D)

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

Time GPS position:

Lat: (decimal degrees) 58.73208 (°,',"): ~~58° 43.925'~~

Lon: (decimal degrees) -136.11521 (°,',"): ~~136° 06.913'~~

Depth: (m) 146 **CTD dropped to (m):** 140

Station# 013 **WP#** 25

Comments:

Location: SE Tlingit, NW Sturgess

Tide Low height: .98m Time since Low: 12:14 ~~174~~ min Tide High height: 4.06m Time since High: 0600 197 min

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Muir

---

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

Date: 2003 (Y Y Y Y) 08 (M M) 18 (D D)

Time CTD on (24-hr clock): 09:56 AKST or (AKDT)

Time GPS position:

Lat: (decimal degrees) 58.7912 (°,',"): ~~58° 47.472'~~

Lon: (decimal degrees) -136.11072 (°,',"): ~~136° 06.643'~~

Depth: (m) 81 **CTD dropped to (m):** 70m

Station# 014 **WP#** 026

Comments:

Location: Muir Sill

Tide Low height: .98m Time since Low: 12:14 138 Tide High height: 4.06m Time since High: 0600 233 min

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Muir

---

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

Date: 2003 (Y Y Y Y) 08 (M M) 18 (D D)

Time CTD on (24 hr clock): 10:36 AKST or (AKDT)

Time GPS position:

Lat: (decimal degrees) 58.89543 (°,',"): ~~58° 53.726'~~

Lon: (decimal degrees) -136.09517 (°,',"): ~~136° 05.710'~~

Depth: (m) 313 **CTD dropped to (m):** 300m

Station# 016 **WP#** 027

Comments:

Location: E. of Hunter Cove

Tide: Low height: .98m High height: 4.06 meters

Time: Since/to low: 98 Since/to high: 273 min Muir Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LLE/MR on Sigma-E

Logbook Page: 2

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

Date: 2003 0 8 1 8 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 11:12 AKST or AKDT

Lat: (decimal degrees) 58.9745 (°,',"): ~~58° 58.474'~~

Lon: (decimal degrees) -136.1383 (°,',"): 136° 08.306'

Time GPS position:

Depth: (m) 212m

CTD dropped to (m): 200m

Station# 017 WP# 28

Comments:

Location: E of West Island Point

Tide Low height: .98 Time since Low: -62 (1214)

Tide High height: 4.06 Time since High: 303 (0809)

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Muir

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

Date: 2003 0 8 1 8 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 11:45 AKST or (AKDT)

Lat: (decimal degrees) 59.0496 5 (°,',"): ~~59° 02.979'~~

Lon: (decimal degrees) -136.1869 3 (°,',"): ~~136° 11.216'~~

Time GPS position:

Depth: (m) ~14

CTD dropped to (m): 200m

Station# 018 WP# 029

Comments:

Location: S of Riggs, NW of McBride

Tide Low height: .98 Time since Low: -29 (1214)

Tide High height: 4.06 Time since High: 270 (0809)

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Muir

Cast Name: ~~C I 0 1 1 3 0 5~~ (CTD id / Dump # / Cast #)

Date: 2003 0 8 1 8 (Y Y Y Y M M D D)

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

Lat: (decimal degrees) 59.0713 3 (°,',"): ~~59° 04.280'~~

Lon: (decimal degrees) -136.3384 3 (°,',"): ~~136° 20.306'~~

Time GPS position:

Depth: (m) 225m

CTD dropped to (m): 220m

Station# 019 WP# 030

Comments: ~~A~~ doesn't exist on CTD#

Location: Muir Inlet

.98 (1214) 10

Tide High height: 4.48 Time since High: 370 (1020)

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: Hope Reeden, Lisa Etherington Logbook Page: 3

Cast Name: C 1 0 1 1 3 0 5 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 8 1 8 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 1 2 : 4 3 AKST or (AKDT)

Time GPS position: :

Lat: (decimal degrees) 5 9 . 0 8 5 6 0 (",","): ~~59° 05.136'~~

Lon: (decimal degrees) - 1 3 6 . 3 7 2 8 3 (",","): ~~-136° 22.370'~~

Depth: (m) 179 **CTD dropped to (m):** 170

Station# 0 2 0 **WP#** 0 3 1

Comments: water looks very silty.

Location: Head of Muir

Tide Low height: .98 **Time since Low:** 29 (1214) **Tide High height:** 4.48 **Time since High:** -351 (1820)

Sampling: (Oceanography) Sonic Bottom Dive Other: **Tide Station:** Muir Tides

---

Cast Name: C 1 0 1 1 3 0 6 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 8 2 0 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 1 4 : 4 1 AKST or (AKDT)

Time GPS position: :

Lat: (decimal degrees) 5 8 . 3 2 6 3 3 (",","): ~~58° 19.580'~~

Lon: (decimal degrees) - 1 3 5 . 8 7 6 7 5 (",","): ~~-135° 52.605'~~

Depth: (m) 58 **CTD dropped to (m):** 50

Station# 0 0 **WP#** 0 3 2

Comments: no current line seen

Location: Icy Strait

Tide Low height: 1.9 **Time since Low:** 89 (1322) **Tide High height:** 3.5 **Time since High:** -306 (1947)

Sampling: (Oceanography) Sonic Bottom Dive Other: **Tide Station:** Bartlett Cove

---

Cast Name: C 1 0 1 1 3 0 8 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 0 8 2 0 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 1 5 : 1 5 AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 5 8 . 4 1 2 1 5 (",","): ~~58° 24.729'~~

Lon: (decimal degrees) - 1 3 5 . 9 9 6 9 8 (",","): ~~-135° 59.819'~~

Depth: (m) 62 **CTD dropped to (m):** 60

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

Comments: peak flood series

Location: mouth Glacier Bay

Oceanography Low Height 1.81 High Height: 3.50

Time Since: Low 113 High: 272

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: H. Rreder, L. Etherington Logbook Page: 4

Cast Name: C1011308 (CTD id / Dump # / Cast #)

Date: 20030820 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 15:46 AKST or AKDT

Lat: (decimal degrees) 58.48960 (°,',"): 58° 29.376'

Lon: (decimal degrees) -136.05350 (°,',"): 136° 03.210'

Time GPS position:

Depth: (m) 93m

CTD dropped to (m): 90

Station# 002 **WP#** 034

Comments: peak flood series

Location: Sitakaday -241

Tide Low height: 1.81 Time since Low: 144 (1322) Tide High height: 3.5 Time since High: [illegible] (1947)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Bartlett

---

Cast Name: C1011308 (CTD id / Dump # / Cast #)

Date: 20030820 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 16:18 AKST or AKDT

Lat: (decimal degrees) 58.57137 (°,',"): 58° 34.282'

Lon: (decimal degrees) -136.06668 (°,',"): 136° 04.001'

Time GPS position:

Depth: (m) 112

CTD dropped to (m): 100m

Station# 003 **WP#** 035

Comments: peak flood series

Location: SE of Willoughby

Tide Low height: 1.84 Time since Low: 162 (1346) Tide High height: 3.92 Time since High: -222 (2000)

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

---

Cast Name: C1011310 (CTD id / Dump # / Cast #)

Date: 20030820 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 16:42 AKST or AKDT

Lat: (decimal degrees) 58.65063 (°,',"): 58° 39.032'

Lon: (decimal degrees) -136.11658 (°,',"): 136° 06.995'

Time GPS position:

Depth: (m) 288m

CTD dropped to (m): 280m

Station# 004 **WP#** 36

Comments: peak flood series

Location: N. Drake N. Marble

Low height: 1.84 Time since Low: 176 (1346) Tide High height: 3.92 Time since High: -258 (2000)

Oceanography Willoughby Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LLE/HR on Sigma-t

Logbook Page: 5

Cast Name: C1011400 (CTD id / Dump # / Cast #)	Date: 20030821 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 10:27 AKST or AKDT
Lat: (decimal degrees) 58.70372 (°,',"): ~~58° 42.223'~~	Lon: (decimal degrees) -136.23510 (°,',"): ~~-136° 14.106'~~	Time GPS position: :
Depth: (m) 366m	CTD dropped to (m): 300 m	Station# 005 / WP# 037
Comments:		Location: Between N Drake & SW Tlingit Pt.
Tide Low height: 2.10 Time since Low: 1505 ~333	Tide High height: 3.05 Time since High: 0934 53	
Sampling: Oceanography Sonic Bottom Dive Other :	Tide Station: Moughby	

Cast Name: C1011401 (CTD id / Dump # / Cast #)	Date: 20030821 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:02 AKST or AKDT
Lat: (decimal degrees) 58.75875 (°,',"): ~~58° 45.925'~~	Lon: (decimal degrees) -136.35345 (°,',"): ~~-136° 21.207'~~	Time GPS position: :
Depth: (m) 288m	CTD dropped to (m): 280m	Station# 06 / WP# 38
Comments: 2 erratic periods where Lisa touched the red handle!		Location: E. Hugh Miller
Tide Low height: 2.10 Time since Low: 1506 ~244	Tide High height: 3.21 Time since High: 0938 94	
Sampling: Oceanography Sonic Bottom Dive Other :	Tide Station: Composite	

Cast Name: C1011402 (CTD id / Dump # / Cast #)	Date: 20030821 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 11:35 AKST or AKDT
Lat: (decimal degrees) 58.81132 (°,',"): ~~58° 48.679'~~	Lon: (decimal degrees) -136.47505 (°,',"): ~~136° 28.503'~~	Time GPS position: :
Depth: (m) 435m	CTD dropped to (m): 800m	Station# 07 / WP# 039
Comments:		Location: Not Blue Mouse, W of Tidal

Low Height: 2.10 Time Since Low: ~211 High Height: 3.21 Time Since High: 117

Oceanography Composite

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LE/HR on Oz

Logbook Page: 6

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

Date: 2 0 0 3 0 8 2 1 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 12:06 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.8646 (°,',"): 58° 51.876'

Lon: (decimal degrees) -136.59525 (°,',"): -136° 35.715'

Depth: (m) 426

CTD dropped to (m): 300m

Station# 008 **WP#** 40

Comments:

Location: S of Rendu

Tide Low height: 2.10 Time since Low: ~181 (1506) Tide High height: 3.21 Time since High: 148 (0938)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: composite

---

Cast Name: C 1 0 1 1 4 0 4

Date: 2 0 0 3 0 8 2 1

Time CTD on (24-hr clock): 12:37 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.89713 (°,',"): 58° 53.828'

Lon: (decimal degrees) -136.73858 (°,',"): -136° 44.315'

Depth: (m) 377m

CTD dropped to (m): 300m

Station# 009 **WP#** 041

Comments:

Location: SE of Russell Island

Tide Low height: 2.10 Time since Low: ~150 (1506) Tide High height: 3.21 Time since High: 179 (0938)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Composite

---

Cast Name: C 1 0 1 1 4 0 5

Date: 2 0 0 3 0 8 2 1

Time CTD on (24 hr clock): 13:03 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.91108 (°,',"): 58° 53.926'

Lon: (decimal degrees) -136.85702 (°,',"): -136° 50.510'

Depth: (m) 361m

CTD dropped to (m): 300m

Station# 010 **WP#** 42

Comments:

Location: N Reid

2.10 Time since Low: ~123 (1506) Tide High height: 3.21 Time since High: 206 (0938)

(Oceanography)

Composite Tides

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Waypoint Datum: NAD83

Name: HR/LE on the Sigma-T Logbook Page: 7

Cast Name: C1011406 (CTD id / Dump # / Cast #)

Date: 20030821 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 13:32 AKST or ~~AKDT~~

Time GPS position:

Lat: (decimal degrees) 58.98557 (°,',"): ~~58° 59.277'~~

Lon: (decimal degrees) -136.91857 (°,',"): ~~-136° 55.114'~~

Depth: (m) 338 **CTD dropped to (m):** 300

Station# 011 **WP#** 043

Comments:

Location: Tarr Inlet

Tide Low height: 2.10 **Time since Low:** -94 (1506) **Tide High height:** 3.21 **Time since High:** 235 (0938)

Sampling: (Oceanography) Sonic Bottom Dive Other: **Tide Station:** Composite

---

Cast Name: C1011407 (CTD id / Dump # / Cast #)

Date: 20030821 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 14:08 AKST or (AKDT)

Time GPS position:

Lat: (decimal degrees) 59.0333 (°,',"): ~~59° 01.980'~~

Lon: (decimal degrees) -137.02015 (°,',"): ~~-137° 01.209'~~

Depth: (m) 288 **CTD dropped to (m):** 280m

Station# 012 **WP#** 044

Comments: ine slack towards end - maybe hit bottom??

Location: Head of Tarr Inlet

Tide Low height: 2.10 **Time since Low:** -58 (1508) **Tide High height:** 3.21 **Time since High:** 271 (0939)

Sampling: (Oceanography) Sonic Bottom Dive Other: **Tide Station:** Composite

---

Cast Name: C1011408 (CTD id / Dump # / Cast #)

Date: 20030821 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 14:34 AKST or (AKDT)

Time GPS position:

Lat: (decimal degrees) 59.04735 (°,',"): ~~59° 02.841'~~

Lon: (decimal degrees) -137.05943 (°,',"): ~~-137° 03.566'~~

Depth: (m) 195m **CTD dropped to (m):** 190m

Station# 021 **WP#** 045

Comments:

Location: Margerie & Grand Pacific

Tide: Low Height: 2.10 Time to Low: -32

High Height: 3.21 Time Since High: 297 Composite

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

•• Waypoint Dat: NAD83

Name: LLC/HR on Sigma-t

Logbook Page: 8

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

Date: 2 0 0 3 0 8 2 2 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 09 : 15 AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 58.3263 (°,',"): 58° 19.578'

Lon: (decimal degrees) -135.87685 (°,',"): 135° 52.611'

Depth: (m) 53m

CTD dropped to (m): 50m

Station# 0 0 **WP#** 4 6

Comments: Slack high series

Location: Icy Strait

Tide Low height: .91 Time since Low: 304 (0411) Tide High height: 2.77 Time since High: -99 (1054)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Bartlett

---

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

Date: 2 0 0 3 0 8 2 2 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 4 : 52 AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 58.41222 (°,',"): 58° 24.733'

Lon: (decimal degrees) -135.98600 (°,',"): 135° 59.280'

Depth: (m) 62m

CTD dropped to (m): 60m

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

Comments: slack high series

Location: Mouth Glacier Bay

Tide Low height: .91 Time since Low: 341 (0411) Tide High height: 2.77 Time since High: -62 (1054)

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Bartlett

---

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

Date: 2 0 0 3 0 8 2 2 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 10 : 23 AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 59.49765 (°,',"): 59° 29.379'

Lon: (decimal degrees) -136.03362 (°,',"): 136° 03.217'

Depth: (m) 93m

CTD dropped to (m): 90m

Station# 0 0 2 **WP#** 4 8

Comments: slack high series

Location: Sitakoday Narrows

Low Height .91 Time since Low: 372 (0411) Tide High height: 2.77 Time since High: -31 (1054)

Oceanography

Bartlett Cove

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Waypoint Datum: NAD83

Name: L. Etherington, H. Rieden on Gt

Logbook Page: 9

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

Date: 2 0 0 3 0 8 2 2 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 10:57 AKST or AKDT

Lat: (decimal degrees) 58.57135 (",',"): ~~58° 34.281'~~

Lon: (decimal degrees) -136.06692 (",',"): ~~136° 04.015'~~

Time GPS position: :

Depth: (m) 112 m

CTD dropped to (m): 100 m

Station# 0 0 3

WP# 0 4 9

Comments: Slack high series

Location: SE of Willoughby Island

Tide Low height: 2.10 Time since Low: 1632 -335

Tide High height: 2.77 Time since High: 1609 10

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Willoughby

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

Date: 2 0 0 3 0 8 2 2 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 11:20 AKST or AKDT

Lat: (decimal degrees) 58.65053 (",',"): ~~58° 39.032'~~

Lon: (decimal degrees) -136.11675 (",',"): ~~136° 07.005'~~

Time GPS position: :

Depth: (m) 288

CTD dropped to (m): 280

Station# 0 0 4

WP# 5 0

Comments: ~5 second pause ~200m to untangle line Slack high series

Location: N. Drake, N. Marble

Tide Low height: 2.10 Time since Low: 1632 -312

Tide High height: 3.20 Time since High: 1107 13

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Willoughby

MISSING!!

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

Date: 2 0 0 3 0 8 2 2 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 11:59 AKST or AKDT

Lat: (decimal degrees) 58.65582 (",',"): ~~58° 39.349'~~

Lon: (decimal degrees) -136.36715 (",',"): ~~136° 22.229'~~

Time GPS position: :

Depth: (m) 155 m

CTD dropped to (m): 150 m

Station# 0 2 2

WP# 0 5 1

Comments:

Location: Mouth of Geikie

Tide Low Height: 2.10 Time Since Low: -278 Tide High: 3.20 Time Since High: 52

Oceanography Willoughby

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: LLE/HR on 6t

Logbook Page: 10

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

Date: 2 0 0 3 0 8 2 2 (Y Y Y Y M M D D)

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

Time GPS position:

Lat: (decimal degrees) 5 8 . 5 9 7 7 0

(°,',"): 58° 35.862'

Lon: (decimal degrees) 1 3 6 . 5 0 8 2 7

(°,',"): 136° 30.496'

Depth: (m) 60m

CTD dropped to (m): 60

Station# 0 2 3

WP# 5 2

Comments: grey sediment plumes

Location: Head of Geikie

Tide Low height: 2.10 Time since Low: -2:48

Tide High height: 3.20 Time since High: 7:7

Sampling: (Oceanography) Sonic Bottom Dive Other :

Tide Station: Willoughby

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

Time GPS position:

Lat: (decimal degrees)

(°,',"):

Lon: (decimal degrees)

(°,',"):

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 :

Tide Station:

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

Time GPS position:

Lat: (decimal degrees)

(°,',"):

Lon: (decimal degrees)

(°,',"):

Depth: (m)

CTD dropped to (m):

Station#

WP#

Comments:

Location:

Tide High height: Time since High:

August 2003 - Oceanography

18 Aug 2003	0700 Start 06.97.4 hrs
	oil gear oil hydraulic ATF coolant } all good
	belts look good
	fuel - filled last time
	file float plan: 280B, East Arm, ETR ~~1600~~ 1800 hrs
	leave Barco into FOG ~ 0715
	13kts for whole waters
	~ 0830, pass STN 02
	~ 0847, pass STN 03 and whole waters. followed keel for a little while in the fog. Opened up at South end of Willoughby for a little bit.
	~ 0910 - pass STN 04 → on to STN 013
Note:	Most of summer has been dry — In past week, we have had several days with heavy rain
	— starting just N. of Westdahl Pt, water started to look muddy (brown rather than silty) plume appears to be comings from Gr, Riggs
	leave Blue Mouse after 53.8 gal refuel @ 1550

19 Aug 2003 - did not sample today b/c we had to deal w/ end of fiscal year budget issues

20 Aug. 2003
1355 - left dock heading to Stn. 00 to sample Lower Bay during peak flood
1440 - arrived at 00 (whale waters 13 knts. in effect)

Note: Heavy rains night before (8/19/03)

Current line was not apparent at mouth of Glacier Bay / Pt. Adolphus region → there close to peak flood
- smaller tidal range today
→ forms during larger tides only ??
at 0
Actually only 1 hr. after slack low

NOTE: The PLGR has been giving an error message regarding datums because STN00 is in NAD27 and all other stns & new points stored are in NAD83
Need to ask Bill Eichenlaub...

21 Aug. 2003
0900 - left dock w/ full tank heading to stn. 05
Raining
1600 - finished w/ west arm & heading back down
oily/silty towards margerie / Grand Pacific
some icebergs, but still maneuverable

J. L. DARLING CORP. TACOMA, WA 98421
(200) 383-1714 - FAX (200) 383-1722

Petrel fuel pump sounds rough, like it isn't pumping. Very little fuel coming out, with lots of air bubbles.
→ leave ~~BA~~ Blue Mouse @ 1645 - heading for BARCO

---

left BARCO 0830 Friday 22 August 2003
float plan for 2 POB, Lower Bay/Geikie ETR 1700
heading for STN00

boat began accelerating on its own - auto choke??
(not to high RPMs though)
* STN 00 ~ 0915 (45 min travel time w/ 13kt whale waters)

- Did not notice a frontal line at mouth ~~B~~ Glacier Bay / Pt. Adolphus region → water at stn. 00 looks very dark (green/blue)

* STN01 ~ 0950 (35 min travel time)
* STN02 ~ 1020 (30 min travel time)
* engine rev'd really high - stopped checked outdrive, reversed to clear any possible blockage - seemed ok.
* STN 03 ~ 1100 (40 min travel time)
* STN 04 ~ 1120 (20 min travel time)
on to Geikie
* STN 022 ~ 1159 (40 min)
* STN 023 ~ 1224
stop for lunch & Triton-X CTD
head back to BARCO ~1300 (via Whidbey)
arrive @ fuel dock ~

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

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: N Nad 83

Name: Yumi Ammitzbøll Lisa Etherington Sigma T Logbook Page: 1

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

Date: 2003 10 23 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 09:53 AKST or AKDT

Lat: (decimal degrees) (°,',"):

Lon: (decimal degrees) (°,',"):

Time GPS position:

Depth: (m) [illegible]

CTD dropped to (m):

Station# 001 WP# 5[illegible]

Comments: BAD CAST - working on hydraulics

Location:

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

Sampling: Oceanography Sonic Bottom Dive Other : Tide Station:

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

Date: 2003 10 23 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 09:56 AKST or AKDT

Lat: (decimal degrees): 58.41217 (°,',"): 58°24.730'

Lon: (decimal degrees): -135.99669 (°,',"): -135°59.816'

Time GPS position: 09:46

Depth: (m) 62

CTD dropped to (m): 50m

Station# 001 WP# 514

Comments: drifted off station to work on hydraulics Peak Flood

Location: Mouth Glacier Bay

Tide Low height: .03m Time since Low: +222 Tide High height: 4.89m Time since High: -152

Sampling: Oceanography Sonic Bottom Dive Other : Tide Station:

Cast Name: C 1 0 1 1 5 0 2 (CTD id / Dump # / Cast #)

Date: 2003 10 23 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 10:27 AKST or AKDT

Lat: (decimal degrees): 58.48962 (°,',"): 58°29.377'

Lon: (decimal degrees): -136.05355 (°,',"): -136°03.211'

Time GPS position: 10:26

Depth: (m) 93

CTD dropped to (m): 80m

Station# 002 WP# 055

Comments: paused at ~50m to mess with line on block Peak Flood

Location: Stakaday

Tide Low height: 0.03m Time since Low: +253 Tide High height: 4.89m Time since High: -119

Sampling: Oceanography Sonic Bottom Dive Other : Tide Station:

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum:

Name: YA & LE

Logbook Page: 2

Cast Name: C1 0 1 1 5 0 3 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 1 0 2 3 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 10:47 AKST or AKDT

Lat: (decimal degrees) 58.57145 (°,',"): 58° 34.287'

Lon: (decimal degrees) -136.0667 (°,',"): -136° 04.004'

Time GPS position: 10:47

Depth: (m) 112m

CTD dropped to (m): 100m

Station# 003

WP# 056

Comments: Peak flood

Location: SE Willoughby

Tide Low height: 0.06m Time since Low: +249

Tide High height: 5.32m Time since High: -114

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station:

Cast Name: C1 0 1 1 5 0 4 (CTD id / Dump # / Cast #)

Date: 2 0 0 3 1 0 2 3 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 11:12 AKST or AKDT

Lat: (decimal degrees) 58.65042 (°,',"): 58° 39.025'

Lon: (decimal degrees) -136.1168 (°,',"): -136° 07.009'

Time GPS position: 11:12

Depth: (m) 280m

CTD dropped to (m): 280m

Station# 04

WP# 57

Comments: Peak flood

Location: N. Drake N. Marble

Tide Low height: 0.06m Time since Low: +274

Tide High height: 5.32m Time since High: -89

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station:

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

Date: 2 0 0 3 1 0 2 3 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 11:42 AKST or AKDT

Lat: (decimal degrees) 58.70383 (°,',"): 58° 42.230'

Lon: (decimal degrees) -136.2352 (°,',"): -136° 14.112'

Time GPS position: 11:42

Depth: (m) 366

CTD dropped to (m): 300m

Station# 05

WP# 58

Comments: stopped briefly at 55m and 245m? to mess with line

Location: Between N. Drake, NW Tlingit

Tide Low height: 0.06m Time since Low: +304

Tide High height: 5.32m Time since High: -59

Sampling: Oceanography Sonic Bottom Dive Other: Tide Station:

OCEANOGRAPHY SURVEY
Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum:

Name: YA & LE

Logbook Page: 3

Cast Name: C1 0 1 1 5 0 6 (CTD id / Dump # / Cast #)	Date: 2 0 0 3 1 0 2 3 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 12:24 AKST or AKDT
Lat: (decimal degrees) 58.65728 (°,',"): 58°39.437'	Lon: (decimal degrees) -136.3672 (°,',"): -136°22.034'	Time GPS position: 12:24
Depth: (m) 155	CTD dropped to (m): 150	Station# 022 / WP# 59
Comments: ~130-135 stopped for a [illegible] second - rope fu[illegible] off		Location: Entrance to Geikie
Tide Low height: 0.06m	Time since Low: +346	Tide High height: 5.32m Time since High: -17
Sampling: Oceanography Sonic Bottom Dive Other :		Tide Station:

Cast Name: C1 1 1 5 0 7 (CTD id / Dump # / Cast #)	Date: 2 0 0 3 1 0 2 3 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 12:56 AKST or AKDT
Lat: (decimal degrees) 58.59775 (°,',"): 58°35.865'	Lon: (decimal degrees) -136.5081 (°,',"): -136°30.488'	Time GPS position: 12:5[illegible]
Depth: (m) 66	CTD dropped to (m): 60	Station# 23 / WP# 60
Comments: very silty		Location: Head Geike
Tide Low height: -0.04m	Time since Low: -369	Tide High height: 5.32m Time since High: +15
Sampling: Oceanography Sonic Bottom Dive Other :		Tide Station:

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 :		Tide Station:

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

Sigma-T

** Waypoint Datum: NAD 83

Name: Jim de LaBruere & Lisa Etherington Logbook Page: 4

Cast Name: C1 0 1 1 6 0 0 (CTD id / Dump # / Cast #)	Date: 2 0 0 3 1 0 2 7 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:45 AKST or AKDT
Lat: (decimal degrees) . (°,',"):	Lon: (decimal degrees) . (°,',"):	Time GPS position: :
Depth: (m)	CTD dropped to (m):	Station# 2 0 / WP#
Comments: sent CTD down ~10m BAD CAST - troubles with davit		Location: Head of Muir Inlet
Tide Low height: Time since Low:	Tide High height: Time since High:	
Sampling: Oceanography Sonic Bottom Dive Other:	Tide Station:	

Cast Name: C1 0 1 1 6 0 1 (CTD id / Dump # / Cast #)	Date: 2 0 0 3 1 0 2 7 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:45 AKST or AKDT
Lat: (decimal degrees) 59.08601 (°,',"): (default location)	Lon: (decimal degrees) -136.37095 (°,',"): (default location)	Time GPS position: :
Depth: (m) 189??	CTD dropped to (m): ~175m	Station# 2 0 / WP# —
Comments: might have hit bottom? Did not get waypoint (but w/in 50m of station)		Location: Head of Muir Inlet
Tide Low height: 0.21m Time since Low: +205	Tide High height: 6.31m Time since High: -150	
Sampling: Oceanography Sonic Bottom Dive Other:	Tide Station: Muir	

Cast Name: C1 0 1 1 6 0 2 (CTD id / Dump # / Cast #)	Date: 2 0 0 3 1 0 2 7 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 12:00 AKST or AKDT
Lat: (decimal degrees) 59.07131 (°,',"): 59°04.279'	Lon: (decimal degrees) -136.33806 (°,',"): -136.20.284	Time GPS position: :
Depth: (m) 214m	CTD dropped to (m): 200m	Station# 1 9 / WP# 6 1
Comments:		Location: Muir Inlet
Tide Low height: 0.21m Time since Low: +220	Tide High height: 6.31m Time since High: -135	
Sampling: Oceanography Sonic Bottom Dive Other:	Tide Station: Muir	

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: JdLB & LLE

Logbook Page: 5

Cast Name: C 1 0 1 6 0 3 (CTD id / Dump # / Cast #)

Date: 2003 10 27 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 12:31 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 59.04958 (°,',"): 59° 02.975'

Lon: (decimal degrees) -136.11698 (°,',"): -136° 11.219'

Depth: (m) 212m

CTD dropped to (m): 200m

Station# 18

WP# 67

Comments:

Location: S. Riggs Nw McBride

Tide Low height: 0.2m Time since Low: +251

Tide High height: 6.3m Time since High: -104

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Muir

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

Date: 2003 10 27 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 13:34 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.97453 (°,',"): 58° 58.472'

Lon: (decimal degrees) -136.13836 (°,',"): -136° 08.302'

Depth: (m) 212

CTD dropped to (m): 200m

Station# 17

WP# 63

Comments:

Location: E. Westdahl Point

Tide Low height: 0.2m Time since Low: +314

Tide High height: 6.3m Time since High: -41

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Muir

Cast Name: C 1 0 1 6 0 5 (CTD id / Dump # / Cast #)

Date: 2003 10 27 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 13:47 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.89551 (°,',"): 58° 53.731

Lon: (decimal degrees) -136.09521 (°,',"): -136° 05.713'

Depth: (m) 312

CTD dropped to (m): 300

Station# 16

WP# 64

Comments:

Location: East Hunter Cove

Tide Low height: 0.2m Time since Low: +327

Tide High height: 6.3m Time since High: -28

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Muir

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LJdeLB & LLE

Logbook Page: 6

Cast Name: C1011606 (CTD id / Dump # / Cast #)	Date: 20031027 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 14:19 AKST or AKDT
Lat: (decimal degrees) 58.79126 (°,',"): 58° 47.476'	Lon: (decimal degrees) -136.11036 (°,',"): -136° 06.622'	Time GPS position: :
Depth: (m) 82.9	CTD dropped to (m): 70	Station# 14 / WP# 65
Comments: lisa's coiling exampltary		Location: Muir Sill
Tide Low height: 0.21m Time since Low: +359	Tide High height: 6.31m Time since High: +4	
Sampling: Oceanography Sonic Bottom Dive Other:	Tide Station: Muir	

Cast Name: C1011607 (CTD id / Dump # / Cast #)	Date: 20031027 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 14:36 AKST or AKDT
Lat: (decimal degrees) 58.73205 (°,',"): 58° 43.923'	Lon: (decimal degrees) -136.11538 (°,',"): -136° 06.923'	Time GPS position: :
Depth: (m) 142	CTD dropped to (m): 130	Station# 013 / WP# 066
Comments: Jim de's coiling not so bad either.		Location: SE Tlevaq + NW stereo
Tide Low height: 0.21m Time since Low: +376	Tide High height: 6.31m Time since High: +21	
Sampling: Oceanography Sonic Bottom Dive Other:	Tide Station: Muir	

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:	Tide Station:	

Sigma-T

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: L. Etherington & J. de la Bruere Logbook Page: 7

Cast Name: C1 011 700 (CTD id / Dump # / Cast #)	Date: 2003 11 03 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:29 AKST or AKDT
Lat: (decimal degrees) 59.045 (°,',"): 59°02.700	Lon: (decimal degrees) -137.0363 (°,',"): -137°02.178	Time GPS position: :
Depth: (m) 250	CTD dropped to (m): 230	Station# 21 / WP# 67
Comments: at Iceedge 1.4 Km from strut 21		Location: Margoire + Grand Pacific
Tide Low height: 1.38m Time since Low: -277	Tide High height: 4.6m Time since High: +92	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Composite

Cast Name: C1 011 701 (CTD id / Dump # / Cast #)	Date: 2003 11 03 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 11:59 AKST or AKDT
Lat: (decimal degrees) 59.03293 (°,',"): 59°01.976	Lon: (decimal degrees) -137.02008 (°,',"): -137°01.205	Time GPS position: :
Depth: (m) 280	CTD dropped to (m): 270	Station# 012 / WP# 68
Comments: Smooth Hydraulic's Lisa		Location: Head Tarr Inlet
Tide Low height: 1.38m Time since Low: -247	Tide High height: 4.6m Time since High: +122	
Sampling: Oceanography Sonic Bottom Dive Other:		Tide Station: Composite

Cast Name: C1 011 702 (CTD id / Dump # / Cast #)	Date: 2003 11 03 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 12:26 AKST or AKDT
Lat: (decimal degrees) 58.97121 (°,',"): 58°58.273	Lon: (decimal degrees) -136.91858 (°,',"): -136°55.115	Time GPS position: :
Depth: (m) 338	CTD dropped to (m): 300	Station# 11 / WP# 69
Comments:		Location: tarr inlet

Low Height 1.38m Time Since Low -220 High height 4.6m Time since High +149

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NaD 87

Name: LLE & LSJ

Logbook Page: 8

Cast Name: C1011703 (CTD id / Dump # / Cast #)	Date: 20031103 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 12:58 AKST or AKDT
Lat: (decimal degrees) 58.89875 (",","): 58° 53.925	Lon: (decimal degrees) -136.84178 (",","): -136° 50.507	Time GPS position: :
Depth: (m) 361	CTD dropped to (m): 300	Station# 10 / WP# 70
Comments:		Location: N. of Reid inlet
Tide Low height: 1.38m Time since Low: -188	Tide High height: 4.6m Time since High: +181	
Sampling: Oceanography Sonic Bottom Dive Other :		Tide Station: Composite

Cast Name: C1011704 (CTD id / Dump # / Cast #)	Date: 20031103 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 13:21 AKST or AKDT
Lat: (decimal degrees) 58.89703 (",","): 58° 53.822	Lon: (decimal degrees) -136.73856 (",","): -136° 44.314	Time GPS position: :
Depth: (m) 377	CTD dropped to (m): 300	Station# 09 / WP# 71
Comments:		Location: SE Russell Is
Tide Low height: 1.38m Time since Low: -165	Tide High height: 4.6m Time since High: +204	
Sampling: Oceanography Sonic Bottom Dive Other :		Tide Station: Composite

Cast Name: C1011705 (CTD id / Dump # / Cast #)	Date: 20031103 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 13:48 AKST or AKDT
Lat: (decimal degrees) 58.8646 (",","): 58° 51.874	Lon: (decimal degrees) -136.59525 (",","): -136° 35.715	Time GPS position: :
Depth: (m) 426m	CTD dropped to (m): 300m	Station# 08 / WP# 72
Comments:		Location: S. Rendu
Tide Low height: 1.38m Time since Low: -138	Tide High height: 4.6m Time since High: +231	

Oceanography

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LLE & LJD

Logbook Page: 9

Cast Name: C 1 0 1 1 7 0 6 (CTD id / Dump # / Cast #)

Date: 2003 / 10 / 03 (Y Y Y Y / M M / D D)

Time CTD on (24-hr clock): 14:18 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.811721

(°,',"): 58° 48.673

Lon: (decimal degrees) -136.475255

(°,',"): -136 28.515

Depth: (m) 435

CTD dropped to (m): 300

Station# 07

WP# 073

Comments:

Location: N Bluemouse Wide T. dal

Tide Low height: 1.38m Time since Low: -108 | Tide High height: 4.6m Time since High: +261

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Composite

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

Date: 2003 / 10 / 03 (Y Y Y Y / M M / D D)

Time CTD on (24-hr clock): 14:43 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.758755

(°,',"): 58° 45.525

Lon: (decimal degrees) -136.353665

(°,',"): -136° 21.219

Depth: (m) 288

CTD dropped to (m): 270

Station# 106

WP# 074

Comments:

Location: E. Hugh Miller Inlet

Tide Low height: 1.38m Time since Low: -83 | Tide High height: 4.6m Time since High: +286

Sampling: (Oceanography) Sonic Bottom Dive Other: Tide Station: Composite

---

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

Time GPS position:

Lat: (decimal degrees)

(°,',"):

Lon: (decimal degrees)

(°,',"):

Depth: (m)

CTD dropped to (m):

Station#

WP#

Comments:

Location:

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: L. Etherington & J. de La Bruere Logbook Page: 10

Cast Name: C 0 1 1 7 0 8 (CTD id / Dump # / Cast #)
Date: 2003 11 04 (Y Y Y Y M M D D)
Time CTD on (24-hr clock): 09:11 AKST or ~~AKDT~~
Time GPS position:
Lat: (decimal degrees) 58.32631 (°,',"): 58° 19.5791
Lon: (decimal degrees) -135.87711 (°,',"): -135° 52.627'
Depth: (m) 53m
CTD dropped to (m): 40m
Station# 00 **WP#** 75
Comments: Slack high series
Location: Icy Strait
Tide Low height: 0.61m **Time since Low:** +313 **Tide High height:** 4.33m **Time since High:** -77
Sampling: (Oceanography) Sonic Bottom Dive Other : **Tide Station:** Bartlett

Cast Name: C 0 1 1 7 0 9 (CTD id / Dump # / Cast #)
Date: 2003 11 04 (Y Y Y Y M M D D)
Time CTD on (24-hr clock): 10:09 AKST or ~~AKDT~~
Time GPS position:
Lat: (decimal degrees) 58.41216 (°,',"): 58° 24.730'
Lon: (decimal degrees) -135.99695 (°,',"): -135° 59.817'
Depth: (m) 60
CTD dropped to (m): 50
Station# 001 **WP#** 076
Comments: Slack high series
Location: mouth of Glacier Bay
Tide Low height: 0.61m **Time since Low:** +371 **Tide High height:** 4.33m **Time since High:** -19
Sampling: (Oceanography) Sonic Bottom Dive Other : **Tide Station:** Bartlett

Cast Name: C 0 1 1 7 ~~8~~ 0 (CTD id / Dump # / Cast #)
Date: 2003 11 04 (Y Y Y Y M M D D)
Time CTD on (24 hr clock): 10:31 AKST or ~~AKDT~~
Time GPS position:
Lat: (decimal degrees) 58.48961 (°,',"): 58° 29.377'
Lon: (decimal degrees) -136.05345 (°,',"): -136° 03.207
Depth: (m) 94.3
CTD dropped to (m): 80
Station# 002 **WP#** 077
Comments: Slack high series
Location: Stakaday Narrows
0.89m -363 **Tide High height:** 4.33m **Time since High:** +3
Bartlett

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: L. Etherington Jde Logbook Page: 11

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

Date: 2003 1 1 04 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 10:54 AKST or ~~AKDT~~

Time GPS position:

Lat: (decimal degrees) 58.57128 (°,',"): 58° 34.277'

Lon: (decimal degrees) +136.06678 (°,',"): -136° 04.007'

Depth: (m) 110

CTD dropped to (m): 100

Station# 0 0 3 **WP#** 0 7 8

Comments: slack high series

Location: SE Willoughby Is

Tide Low height: 0.92m **Time since Low:** -364 **Tide High height:** 4.75m **Time since High:** +13

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

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Cast Name: C 1 0 1 1 7 1 2 (CTD id / Dump # / Cast #)

Date: 2003 1 1 04 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 11:18 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.6504 (°,',"): 58° 39.024'

Lon: (decimal degrees) +136.1169 (°,',"): -136° 07.014

Depth: (m) 288

CTD dropped to (m): 270

Station# 0 0 4 **WP#** 0 7 9

Comments: slack high series

Location: N. Drake Is N of Marble

Tide Low height: 0.92m **Time since Low:** -340 **Tide High height:** 4.75m **Time since High:** +37

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

---

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

Time GPS position: :

Lat: (decimal degrees) . (°,',"):

Lon: (decimal degrees) . (°,',"):

Depth: (m)

CTD dropped to (m):

Station# **WP#**

Comments:

Location:

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datu

Name:_____ Logbook Page: _____

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

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

Lat: (decimal degrees) [ ] [ ] . [ ] [ ] [ ] [ ] [ ]
(°,',"):

Lon: (decimal degrees) [ ] [ ] [ ] . [ ] [ ] [ ] [ ] [ ]
(°,',"):

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 : Tide Station:

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

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

Lat: (decimal degrees) [ ] [ ] . [ ] [ ] [ ] [ ] [ ]
(°,',"):

Lon: (decimal degrees) [ ] [ ] [ ] . [ ] [ ] [ ] [ ] [ ]
(°,',"):

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 : Tide Station:

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

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

Lat: (decimal degrees) [ ] [ ] . [ ] [ ] [ ] [ ] [ ]
(°,',"):

Lon: (decimal degrees) [ ] [ ] [ ] . [ ] [ ] [ ] [ ] [ ]
(°,',"):

Depth: (m)

CTD dropped to (m):

Station# [ ] [ ] [ ]

WP# [ ] [ ] [ ]

Comments:

Location:

Tide High height: Time since High:

10/23/03 10/23/03

October Oceanography Sampling
Yumi Arimitsu Lisa E. JD Sigma T

left Barco at 8:30
aborted Station 00 because seas were too rough.
- Lower Bay stns. - peak flood + 5+ Gelcoat
antenna for garmin unit can't be hooked up we are not.

10/24/03 Headed up Bay to do west Arm
At N. end of Whidbey Passage
aborted trip - too rough!

10/25/03 Lisa E. & Jim de La Bruere
left dock ~ 9:15am (full tank)
East Arm stns 13-20
back at dock ~ 3:45pm
filled up boat w/ 53.5? gallons
tube on CTD #1 misbehaving
almost impossible to get on or off
o-ring problem?
→ decided to leave it attached & flush w/ Syringe & tube combo

10/29/03 Had planned to do West Arm today
→ calling for gale - 8 ft. seas
Decided not to go out

→ will try again next week (Nov. 2)
- working around Jim de's plans

11/3/03 J. deLaBruere & L. Etherington
on Sigma-T
Left dock ~9:00
arrived at Head West Arm ~11:30

- too much ice to get to stn #21 (~1.4 km away)
went to edge of ice flow & sampled there
- fuel gauge reads 1 block past the ½ mark
Upon arrival near stn. #21
fuel gauge reading
- at stn 06, 0.5 block less than ½ tank
left stn 6 ~ 14:45
Back at dock ~ 16:00

11/4/03 LJdLB & LLE on Sigma-T
Lower Bay
Stations for slack high series
* Note that lower Bay slack high vs. peak flood series were done ~1.5 weeks apart!

→ then went into Adams to check out navigational routes for Gyre

It was a beautiful day!

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

Gyre

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: Jim de la Bruere, Lisa Etherington, Chiska Derr Logbook Page: 1

Cast Name: C1 0118 00 (CTD id / Dump # / Cast #)	Date: 2003 12 16 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 13:43 AKST or AKDT
Lat: (decimal degrees) 58.41249 (",","): 58° 24' 44.99"	Lon: (decimal degrees) -135.99486 (",","): -135° 59' 41.52"	Time GPS position: :
Depth: (m) 62	CTD dropped to (m): 60	Station# 01 / WP# 49
Comments: Peak flood series		Location: Mouth Glacier Bay
Tide Low height: 1.66m Time since Low: +65	Tide High height: 3.48m Time since High: -284	
Sampling: Oceanography Sonic Bottom Dive Other :		Tide Station: Bartlett Cove

Cast Name: C1 0118 01 (CTD id / Dump # / Cast #)	Date: 2003 12 16 (Y Y Y Y M M D D)	Time CTD on (24-hr clock): 14:28 AKST or AKDT
Lat: (decimal degrees) 58.49198 (",","): 58° 29' 31.~~60~~16"	Lon: (decimal degrees) -136.05479 (",","): -136° 03' 17.25"	Time GPS position: 14:32
Depth: (m) 93	CTD dropped to (m): 80	Station# 02 / WP# 50
Comments: Waypoint taken after cast taken Peak flood series		Location: Sitakaday Narrows
Tide Low height: 1.66m Time since Low: +110	Tide High height: 3.48m Time since High: -239	
Sampling: Oceanography Sonic Bottom Dive Other :		Tide Station: Bartlett cove

Cast Name: C1 0118 02 (CTD id / Dump # / Cast #)	Date: 2003 12 1~~3~~6 (Y Y Y Y M M D D)	Time CTD on (24 hr clock): 15:11 AKST or AKDT
Lat: (decimal degrees) 58.57202 (",","): 58° 34' 19.29"	Lon: (decimal degrees) -136.06542 (",","): -136° 03' 55.52"	Time GPS position: :
Depth: (m) 112m	CTD dropped to (m): 100m	Station# 03 / WP# 51
Comments: Peak flood series		Location: SE Willoughby
Tide Low height: ~~1.66m~~ 1.70 Time since Low: ~~+153~~ +129	Tide High height: ~~3.48m~~ 3.91m Time since High: ~~-196~~ -209	
Sampling: Oceanography Sonic Bottom Dive Other :		Tide Station: Willoughby

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: WdLB, Ute, CD

Logbook Page: 2

Cast Name: C 1 0 1 1 8 0 3 (CTD id / Dump # / Cast #)

Date: 2003 12 16 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 15:58 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.65090

("," ,"): 58° 39' 03.24"

Lon: (decimal degrees) -136.11525

("," ,"): -136° 06' 54.92"

Depth: (m) 288m

CTD dropped to (m): 280

Station# 04 **WP#** 52

Comments:

Location: N. Dake, N. Marble

Tide Low height: 1.70m **Time since Low:** +176 **Tide High height:** 3.96m **Time since High:** -162

Sampling: Oceanography Sonic Bottom Dive Other : **Tide Station:** Willoughby

---

Cast Name: C 1 0 1 1 8 0 4 (CTD id / Dump # / Cast #)

Date: 2003 12 16 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 16:48 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.73226

("," ,"): 58° 43' 56.14"

Lon: (decimal degrees) -136.11091

("," ,"): -136° 06' 39.28"

Depth: (m) 142

CTD dropped to (m): 130

Station# 013 **WP#** 053

Comments:

Location: SE Tlingit W w sturgess

Tide Low height: 1.70m **Time since Low:** +223 **Tide High height:** 4.06m **Time since High:** -117

Sampling: Oceanography Sonic Bottom Dive Other : **Tide Station:** Muir

---

Cast Name: C 1 0 1 1 8 0 5 (CTD id / Dump # / Cast #)

Date: 2003 12 17 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 10:40 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.79150

("," ,"): 58° 47' 29.43"

Lon: (decimal degrees) -136.10868

("," ,"): -136° 06' 31.25"

Depth: (m) 70

CTD dropped to (m): 81m

Station# 014 **WP#** 054

Comments:

Location: Muir Sill

Tide Low height: 1.36m **Time since Low:** -220 **Tide High height:** 4.64m **Time since High:** +175

Sampling: Oceanography Sonic Bottom Dive Other : **Tide Station:** Muir

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LJDLB, LLE, CD

Logbook Page: 3

Cast Name: C I 0 1 1 8 0 6 (CTD id / Dump # / Cast #)

Date: 2003 12 17 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 11:39 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.89593

(°,',"): 58° 53' 45.36"

Lon: (decimal degrees) -136.09360

(°,',"): -136° 05' 36.99"

Depth: (m) 310m

CTD dropped to (m): 300m

Station# 0 1 6 | WP# 0 5 5

Comments:

Location: E. Hunter Cove

Tide Low height: 1.36m Time since Low: -161

Tide High height: 4.64m Time since High: +234

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Muir

Cast Name: C I 0 1 1 8 0 7 (CTD id / Dump # / Cast #)

Date: 2003 12 17 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 12:30 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.97481

(°,',"): 58° 58' 29.32"

Lon: (decimal degrees) -136.13680

(°,',"): -136° 08' 12.50"

Depth: (m) 190m?

CTD dropped to (m): 180m

Station# 0 1 7 | WP# 0 5 6

Comments:

Location: E. Westdahl Pt.

Tide Low height: 1.36m Time since Low: -110

Tide High height: 4.64m Time since High: +285

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Muir

Cast Name: C I 0 1 1 8 0 8 (CTD id / Dump # / Cast #)

Date: 2003 12 17 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 13:25 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 59.05036

(°,',"): 59° 03' 01.30"

Lon: (decimal degrees) -136.18274

(°,',"): -136° 10' 57.87"

Depth: (m) 211

CTD dropped to (m): 200

Station# D 1 8 | WP# 0 5 7

Comments: Glacier Ice

Location: S. Riggs NW McBride

Tide Low height: 1.3m Time since Low: -55

Tide High height: 4.64m Time since High: +340

Sampling: Oceanography Sonic Bottom Dive Other:

Tide Station: Muir

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LLE CCD CTD Logbook Page: 4

Cast Name: C 1 0 1 1 8 0 9 (CTD id / Dump # / Cast #)

Date: 2003 / 12 / 17 (Y Y Y Y / M M / D D)

Time CTD on (24-hr clock): 14:20 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 59.071166 (°,',"): 59° 04' 18.01"

Lon: (decimal degrees) +136.335443 (°,',"): -136° 20' 07.57"

Depth: (m) 225

CTD dropped to (m): 200m

Station# 019 **WP#** 058

Comments:

Location: Muir inlet

Tide Low height: 1.36m **Time since Low:** +1 **Tide High height:** 3.99m **Time since High:** -345

Sampling: (Oceanography) Sonic Bottom Dive Other : **Tide Station:** Muir

---

Cast Name: C 1 0 1 1 8 1 0 (CTD id / Dump # / Cast #)

Date: 2003 / 12 / 17 (Y Y Y Y / M M / D D)

Time CTD on (24-hr clock): 14:41 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 59.085611 (°,',"): 59° 05' 08.22"

Lon: (decimal degrees) +136.371333 (°,',"): -136° 22' 16.81"

Depth: (m) 179 **CTD dropped to (m):** 166

Station# 020 **WP#** 059

Comments:

Location: Head muir

Tide Low height: 1.36m **Time since Low:** +21 **Tide High height:** 3.99m **Time since High:** -325

Sampling: (Oceanography) Sonic Bottom Dive Other : **Tide Station:** Muir

---

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

Time GPS position:

Lat: (decimal degrees) (°,',"):

Lon: (decimal degrees) (°,',"):

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 : **Tide Station:**

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: LLE, LJDLB, CD

Logbook Page: 5

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

Date: 2 0 0 6 1 2 1 8 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 09 : 27 AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 58.75921 (°,',"): 58° 45' 33.18"

Lon: (decimal degrees) 136.35170 (°,',"): 136° 21' 06.14"

Depth: (m) 288m

CTD dropped to (m): 270m

Station# 0 6 | WP# 1 6 0

Comments: If you stick your tongue out when it's sleeting, it hurts!

Location: E. Hugh Miller

Tide Low height: 0.86m Time since Low: -360 | Tide High height: 4.9m Time since High: +47

Sampling: (Oceanography) Sonic Bottom Dive Other : | Tide Station: Composite

---

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

Date: 2 0 0 6 1 2 1 8 (Y Y Y Y M M D D)

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

Time GPS position: :

Lat: (decimal degrees) 58.81185 (°,',"): 58° 48' 42.66"

Lon: (decimal degrees) 136.47286 (°,',"): 136° 28' 22.31"

Depth: (m) 435m

CTD dropped to (m): 300m

Station# 0 7 | WP# 1 6 1

Comments: Chrska excelling with coiling skills!

Location: N. Bluemouse, W. Tidal

Tide Low height: 0.85m Time since Low: -295 | Tide High height: 4.9m Time since High: +112

Sampling: (Oceanography) Sonic Bottom Dive Other : | Tide Station: Composite

---

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

Date: 2 0 0 3 1 2 1 8 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 11 : 32 ? AKST or AKDT

Time GPS position: :

Lat: (decimal degrees) 58.86510 (°,',"): 58° 51' 54.39"

Lon: (decimal degrees) 136.59353 (°,',"): 136° 35' 36.73"

Depth: (m) 420m

CTD dropped to (m): 300m

Station# 0 8 | WP# 1 6 2

Comments: Jim de's working around! 4 adult ♀'s, spotted pod of orcas

Location: S. Rendu Inlet

Tide Low height: 0.85m Time since Low: -235 | Tide High height: 4.9m Time since High: +172

Sampling: (Oceanography) Sonic Bottom Dive Other : | Tide Station: Composite

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: JdLB, LLE, CD

Logbook Page: 6

Cast Name: C10119103 (CTD id / Dump # / Cast #)

Date: 2003 12 18 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 12:31 AKST or AKDT

Lat: (decimal degrees) 58.897511 (°,',"): 58°53'51.05"

Lon: (decimal degrees) 136.736714 (°,',"): 136°44'12.27

Time GPS position:

Depth: (m) 397m

CTD dropped to (m): 300m

Station# 09

WP# 63

Comments:

Location: SE Russell

Tide Low height: 0.85m Time since Low: -176

Tide High height: 4.9m Time since High: +231

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Composite

Cast Name: C10119104 (CTD id / Dump # / Cast #)

Date: 2003 12 18 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 13:14 AKST or AKDT

Lat: (decimal degrees) 58.899114 (°,',"): 58°53'56.93"

Lon: (decimal degrees) 136.840110 (°,',"): 136°50'24.39"

Time GPS position:

Depth: (m) 361m

CTD dropped to (m): 300m

Station# 10

WP# 64

Comments:

Location: N. Reid Inlet

Tide Low height: 0.85m Time since Low: -133

Tide High height: 4.9m Time since High: +274

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Composite

Cast Name: C10119105 (CTD id / Dump # / Cast #)

Date: 2003 12 18 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): 14:17 AKST or AKDT

Lat: (decimal degrees) 58.971611 (°,',"): 58°58'17.81"

Lon: (decimal degrees) 136.916688 (°,',"): 136°55'00.05"

Time GPS position:

Depth: (m) 338m

CTD dropped to (m): 300

Station# 11

WP# 65

Comments:

Location: Tarr Inlet

Tide Low height: 0.85m Time since Low: -70

Tide High height: 4.9m Time since High: +337

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Composite

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD83

Name: JdlB, LE, CED

Logbook Page: 7

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

Date: 2003 12 18 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): ~15:15 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 59.03532

(°,',"): 59° 02' 07.18"

Lon: (decimal degrees) 137.00791

(°,',"): 137° 00' 28.51"

Depth: (m) 288m

CTD dropped to (m): 260m

Station# 12

WP# 66

Comments: We were a bit off station due to lots of ice bergs

Location: Head of Tarr Inlet

Tide Low height: 0.85m Time since Low: -12

Tide High height: 4.11m Time since High: -372

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Composite

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

Date: 2003 12 18 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): ~19:44 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.70421

(°,',"): 58° 42' 15.18"

Lon: (decimal degrees) 136.23308

(°,',"): 136° 13' 59.11"

Depth: (m) 310m

CTD dropped to (m): 300m

Station# 05

WP# 67

Comments:

Location: N Drake Sw Tlingit

Tide Low height: 0.85m Time since Low: +258

Tide High height: 3.96m Time since High: -97

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Willoughby

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

Date: 2003 12 19 (Y Y Y Y M M D D)

Time CTD on (24 hr clock): ~11:23 AKST or AKDT

Time GPS position:

Lat: (decimal degrees) 58.63417

(°,',"): 58° 38' 03.03"

Lon: (decimal degrees) 136.43111

(°,',"): 136° 25' 52.03"

Depth: (m) 109

CTD dropped to (m): 100

Station# ~23

WP# 68

Comments: ~~off station~~ Only made it ~½ way down Geikie due to thick ice

Location: mid Geikie

Tide Low height: 0.25m Time since Low: -303

Tide High height: 5.08m Time since High: +112

Sampling: (Oceanography) Sonic Bottom Dive Other:

Tide Station: Willoughby

OCEANOGRAPHY SURVEY

Glacier Bay National Park & Preserve, Alaska

** Waypoint Datum: NAD 83

Name: JdLB, LLE, CCD

Logbook Page: 8

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

Date: 2 0 0 3 1 2 1 9 (Y Y Y Y M M D D)

Time CTD on (24-hr clock): 11:58 AKST or AKDT

Lat: (decimal degrees) 58.65770 (°,',"): 58° 39' 27.72"

Lon: (decimal degrees) 136.36539 (°,',"): 136° 21' 55.43"

Time GPS position: :

Depth: (m) 155m

CTD dropped to (m): 140m

Station# 22

WP# 69

Comments:

Location: Entrance Geikie

Tide Low height: 0.25m Time since Low: -268

Tide High height: 5.08m Time since High: +147

Sampling: Oceanography Sonic Bottom Dive Other :

Tide Station: Willoughby

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 :

Tide Station:

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 :

Tide Station:

December 2003 Oceanography

12/16/03

Jim de La Bruere
Lisa Etherington
Chiska Derr
on Alaskan Gyre

Left Dock 11:54am
- Headed out to Station 0 to do Lower Bay peak (mid) flood series
- made it just south of Ancon buoy & seas turned too rough
  → decided to skip station 0
- seas still pretty rough for stns. 1 & 2
- completed stations 1, 2, 3, 4, 13
  seas rough
- anchored in sandy cove (N.)
  (~ 1800)

12/17/03

Jim de's Birthday!

0930 Headed out of N. Sandy towards East Arm
- seas look better than yesterday
  → turn to 5 ft. seas in afternoon
  calm at head East Arm
- completed stations
  14, 16, 17, 18, 19, 20
  Some pan ice around McBride, but able to get through
  some larger icebergs

- headed back down East Arm to anchor for night
- anchored in N. Sandy ~1900

12/18/03

0800 Headed out N. Sandy towards West Arm
weather still windy, sleeting/snow

seas choppy, some bigger rollers
- completed stations 6, 7, 8, 9, 10, 11, 12
  → Stn. 12 was a bit off station due to large # of icebergs
  → Did not sample at Stn. 21 due to icebergs

Snowed several inches during day
- enough that there was snow sitting on surface of water
- built snowman on back deck.

→ headed down-Bay to anchor (anchored in Gickie behind Island) (~2000)

12/19/03
started up Gickie - only made it halfway to 23 due to thick ice
took a cast there & then sampled station #22
→ headed back to Bartlett Cove
→ tides not conducive to sample lower Bay stations during slack high tide

- only stations not sampled:
  0, 21, 23 (Sampled close to it)

→ Before trip, entered oceanographic station waypoints into PLGR using MPS (mission planning software)
- tried two separate sets of waypoints - 1st set (1-24) worked second set were off by ? (100m? 200m?) (25-48?)

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- seems that you have to tell PLGR what datum the points are coming in as, as well as the datum that you want outputted
- I think Hope told PLGR we were entering NAD27 points when in fact they were NAD83
  → we were navigating to points in wrong datum

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Birds observed to add to Xmas bird count

12/16/03 – Lower Glacier Bay
common murre
marbled murrelets

– Central Bay
herring gulls

12/17/03 Common loon

– East Arm
black turnstones (betw. Riggs & mouth)
(flock ~ 50 individuals)

12/18/03 West Arm
yellow billed loon

forked-tail storm petrel
black oystercatcher

12/19/03 Giekie & Inlet
pelagic cormorant

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