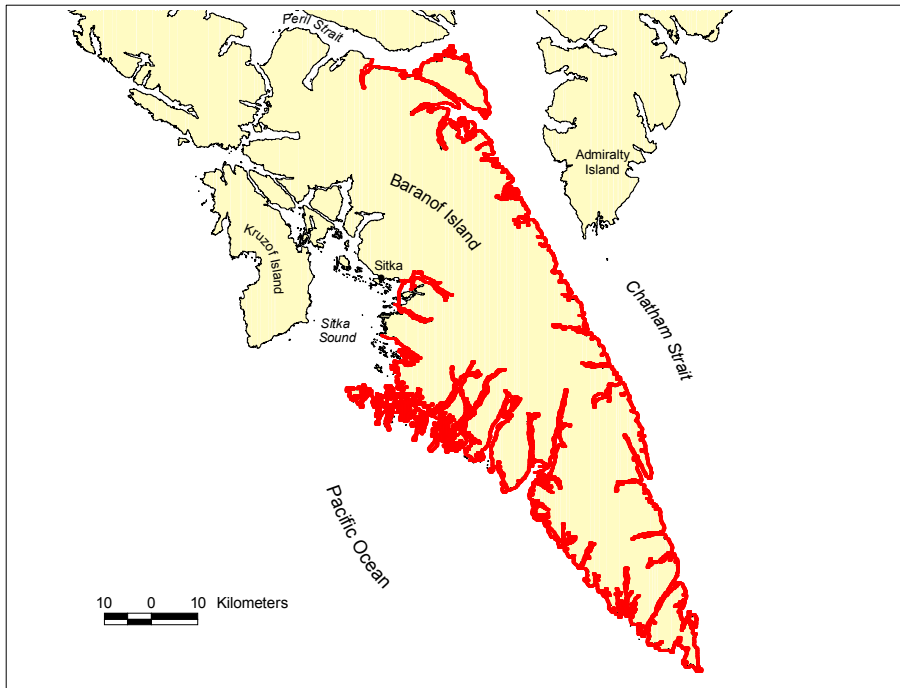


# FLIGHT REPORT

## ShoreZone Aerial Video Imaging (AVI) Survey

### Baranof Island, Alaska, 13-18 June 2007



Prepared for  
The Nature Conservancy  
Juneau, Alaska



by

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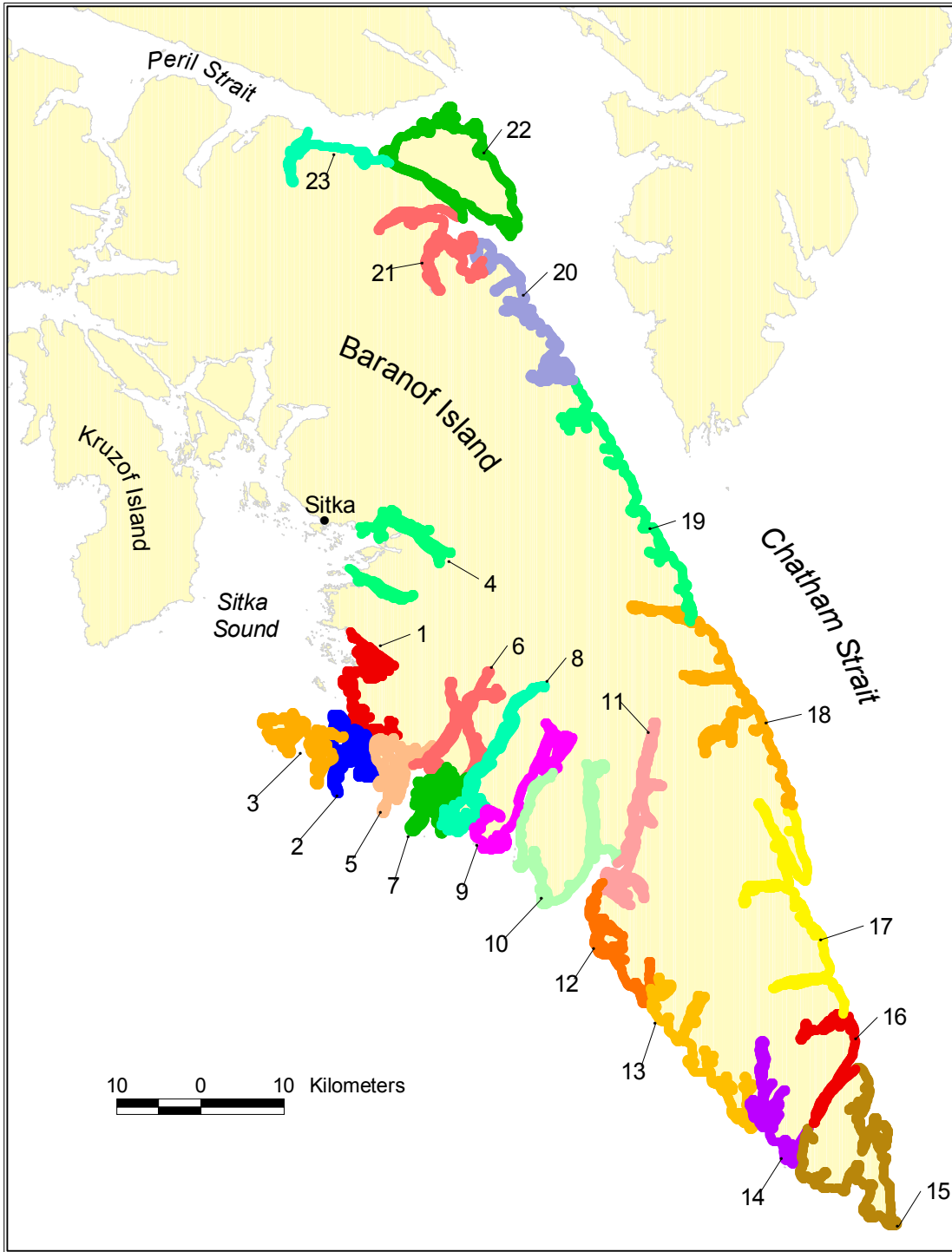
**ShoreZone** is a coastal habitat mapping and classification system in which georeferenced aerial imagery is collected specifically for the interpretation and integration of geological and biological features of the intertidal zone and nearshore environment. Oblique low-altitude aerial video and digital still imagery of the coastal zone is collected during summer low tides (zero tide level or lower), usually from a helicopter flying at <100 m altitude. The flight trackline is recorded at 1-second intervals using electronic navigation software and is continuously monitored in-flight to ensure all shorelines have been imaged. Video and still imagery collected are georeferenced and time-synchronized. Video imagery is accompanied by continuous, simultaneous commentary by a geologist and a biologist aboard the aircraft. The imagery and commentary are later used in the definition of discrete along-shore coastal habitat units and the “mapping” of observed physical, geomorphic, sedimentary, and biological features in those units.

The purpose of this flight report is to summarize the field activities of the ShoreZone aerial video imaging (AVI) survey conducted in Baranof Island, Alaska during the low-tide windows of May and June 2007. The survey was conducted by Coastal & Ocean Resources Inc. (CORI, Sidney, British Columbia) under contract to The Nature Conservancy of Juneau, Alaska. A coastal ecologist was provided from Archipelago Marine Research Ltd. (AMR) Table 1 provides a summary of crew affiliations and responsibilities. The aircraft used in this survey was a Bell 206 Jet Ranger chartered from Coastal Helicopters in Juneau, Alaska.

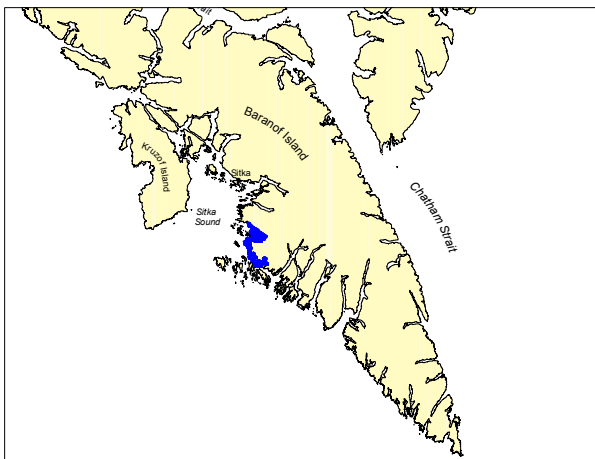
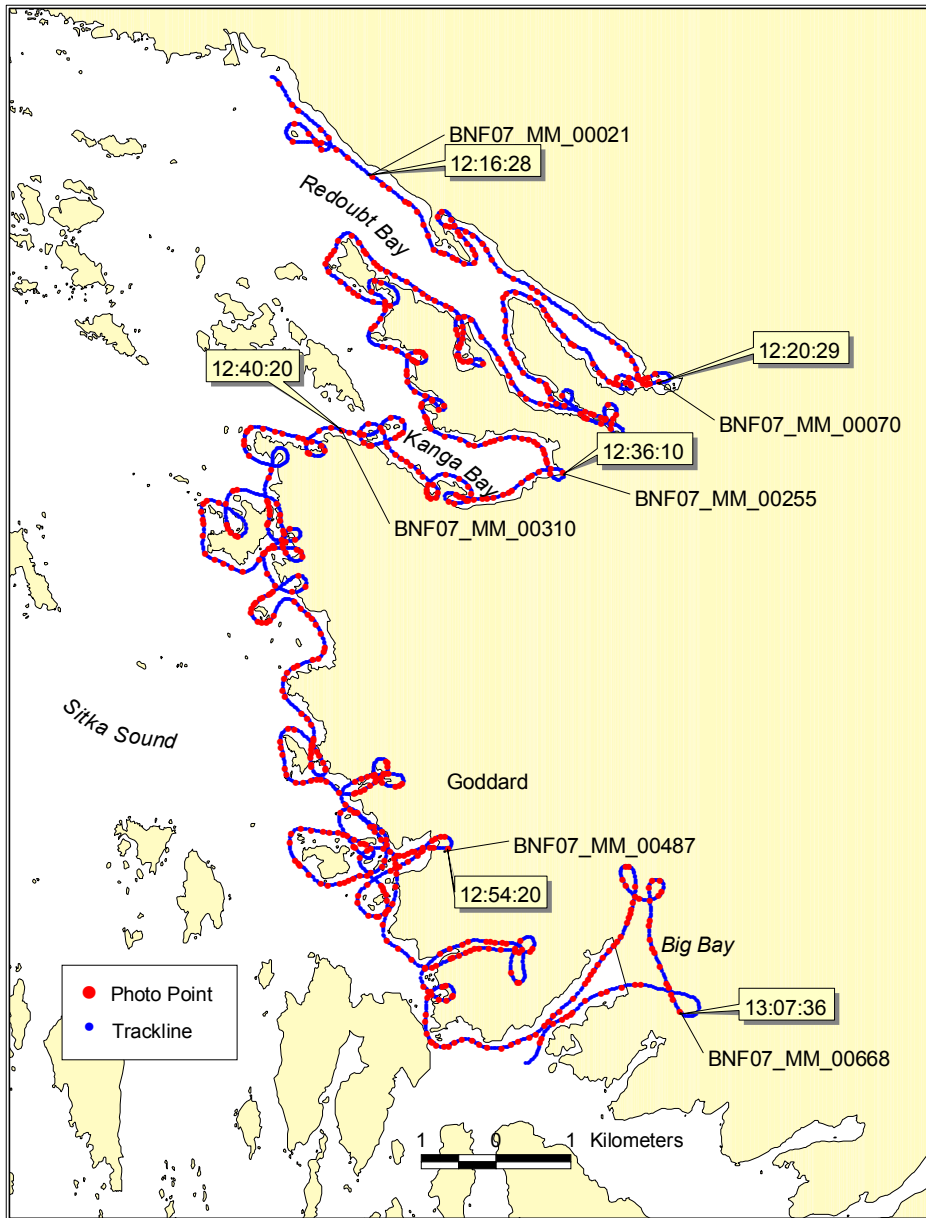
The length of shoreline imaged during the survey was **1,975 km** (Title page shows a summary of the 2007 TNC survey). The tables and figures on the following pages summarize, by video tape number, the extent and location of the AVI data and imagery collected. Maps for each tape are annotated with representative geographic names, trackline times (in hh:mm:ss UTC), and photo numbers. UTC time is imprinted on video imagery (provided on DVD with this report).

**Table 1. Baranof Island AVI Flight Personnel and Responsibilities (June 07)**

<b>Crew Member</b>	<b>Individual / Affiliation</b>	<b>Responsibilities</b>
<i>Geomorphologist/ Navigator</i>	Neil Borecky CORI, Sidney BC	videography, geologic commentary, post-flight data processing
<i>Geomorphologist/ Navigator</i>	John Harper CORI, Sidney BC	videography, geologic commentary, post-flight data processing
<i>Coastal Ecologist</i>	Mary Morris Archipelago Marine Resources Inc Victoria, BC	digital photography, biologic commentary, post-flight data processing
<i>Pilot</i>	Bill Snider Coastal Helicopters Juneau, Alaska	pilot



Summary flightline map showing the location and extent of specific videotapes/DVDs for the June 2007 Team Baranof survey.



**SE07\_SK\_01**  
**13 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-01

**General Location:** Redoubt Bay to Big Bay

**Date:** 13 June 2007

**Time Start:** 121428 (UTC) (041428 ADT)

**Fuel Break:** none

**Time Stop:** 130921 (UTC) (050921 ADT)

**Tape Length:** 54:53

**Geo:** Borecky

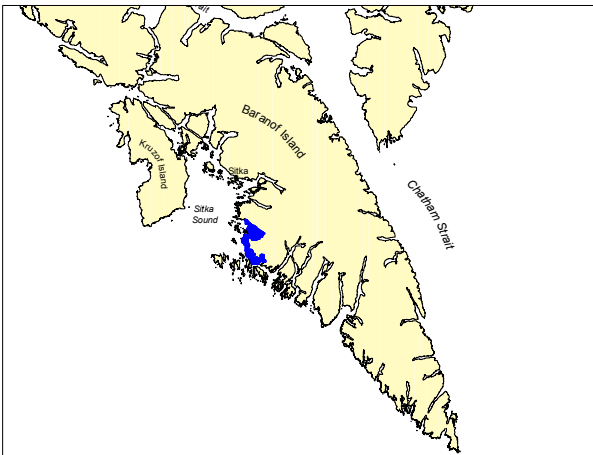
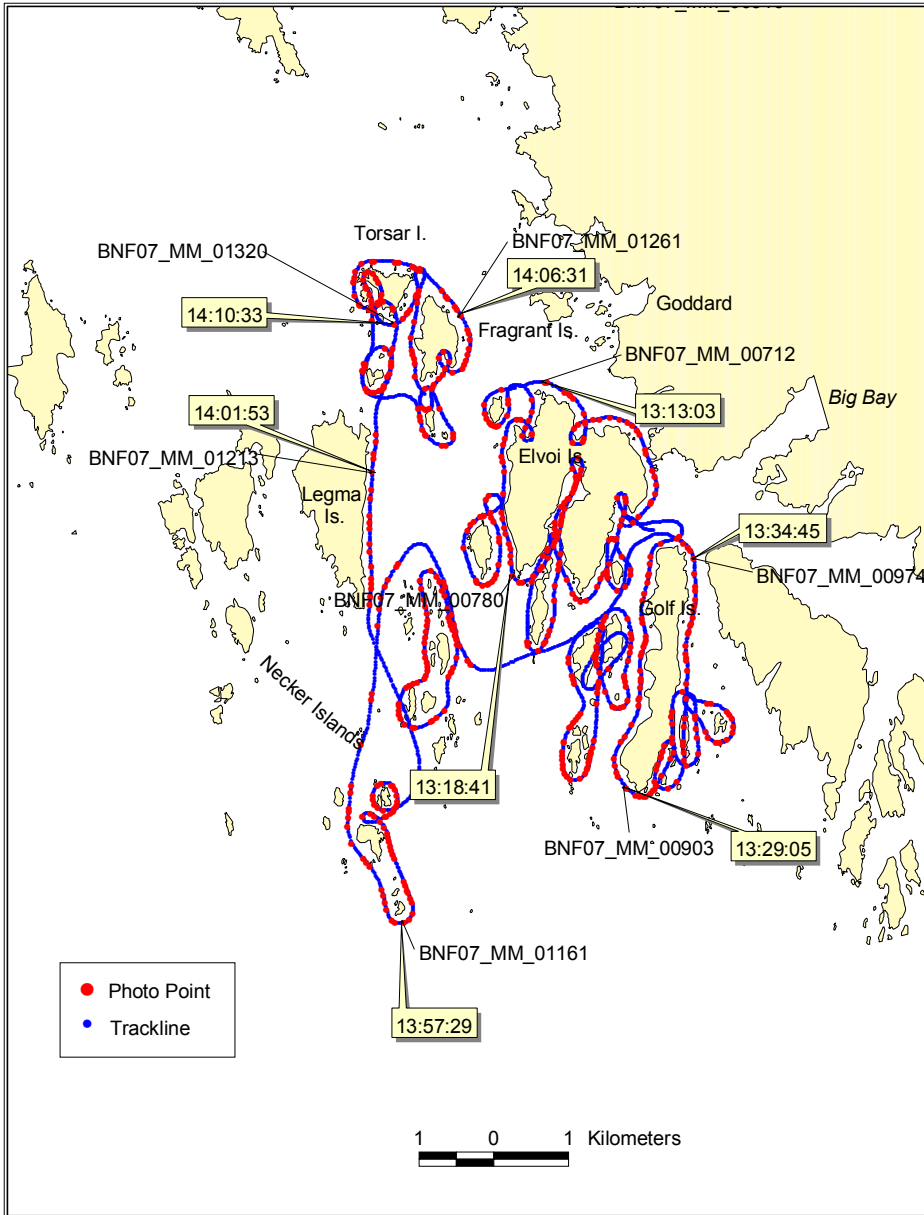
**Bio:** Morris

**Nav:** Harper

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
12:16:28	N side Redoubt Bay	BNF07_MM_00021
12:20:29	Head of Redoubt Bay	BNF07_MM_00070
12:36:10	Head of Kanga Bay	BNF07_MM_00255
12:40:20	S side, mouth of Kanga Bay	BNF07_MM_00310
12:54:20	Goddard	BNF07_MM_00487
13:07:36	Head of Big Bay	BNF07_MM_00668

Note: recorder not switched on for the first 20 minutes; camera tape used to splice in imagery



**SE07\_SK\_02**  
**13 June 2007**



**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-02

**General Location:** Necker Islands

**Date:** 13 June 2007

**Time Start:** 131010 (UTC) (051010 ADT)

**Break:** 134209 to 134950

**Time Stop:** 141211(UTC) (061211 ADT)

**Tape Length:** 54:21

**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
13:13:03	N tip Elvoi Island	BNF07_MM_00712
13:18:41	S tip Elvoi Island	BNF07_MM_00780
13:29:05	S tip Golf Island	BNF07_MM_00903
13:34:45	S tip Golf Island	BNF07_MM_00974
	equipment break 134209 to 134950	
13:57:29	Outer Necker Islands	BNF07_MM_01161
14:01:53	E side Legma Island	BNF07_MM_01213
14:06:31	NE tip Fragrant Island	BNF07_MM_01261
14:10:33	S tip Torsar Island	BNF07_MM_01320



**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-03

**General Location:** Necker Islands, Biorka Island

**Date:** 13 June 2007

**Time Start:** 141311 (UTC) (061311 ADT)

**Fuel Break:** 145302 to 151433

**Break:** 152424 to 152613

**Time Stop:** 153008 (UTC) (073008 ADT)

**Tape Length:** 53:39

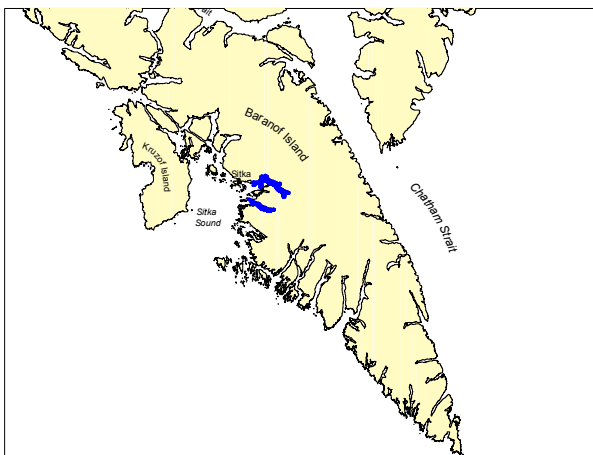
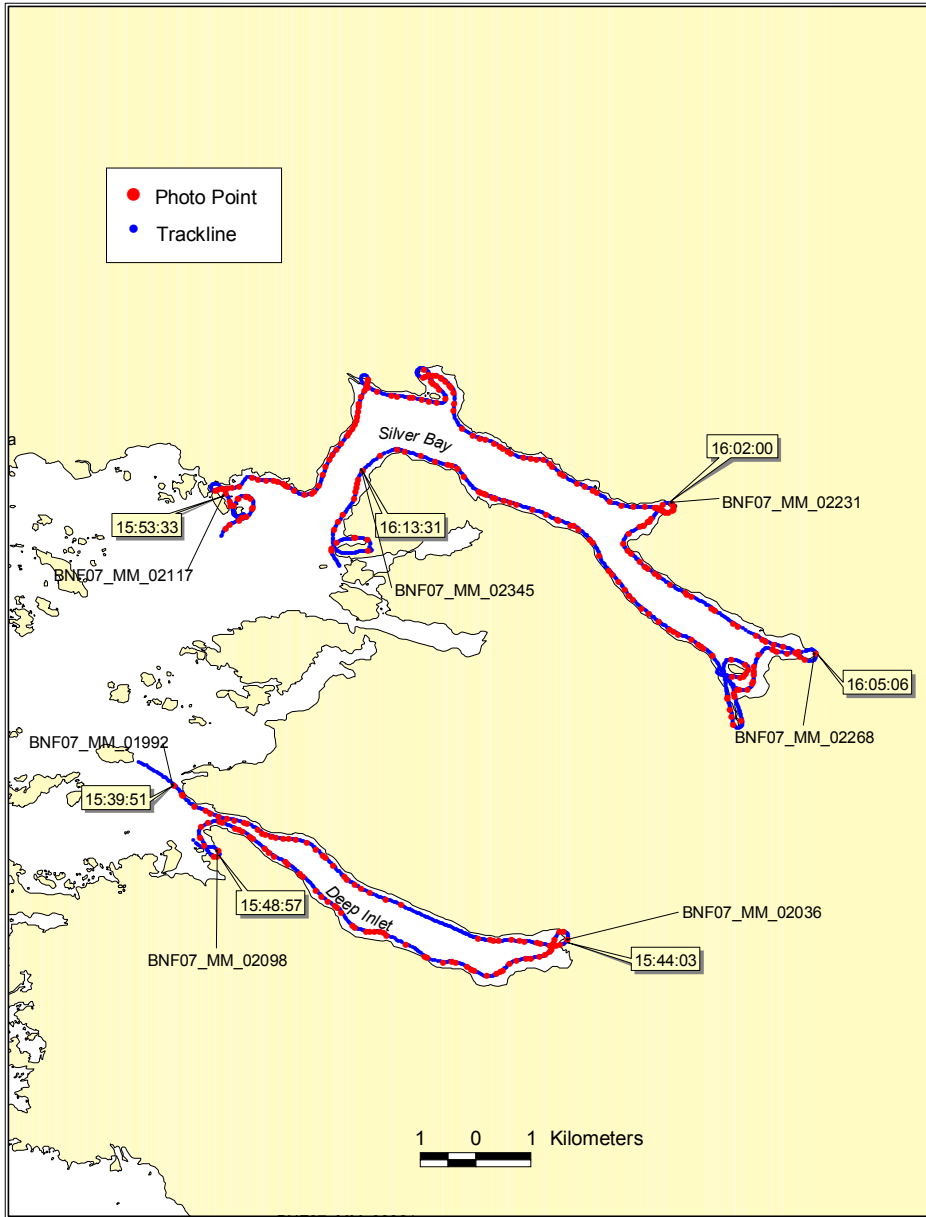
**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:14:51	N. end of Legma Island	BNF07_MM_01354
14:18:51	S. end Legma Island	BNF07_MM_01413
14:20:54	Jacob Rock	BNF07_MM_01419
14:35:21	N. end Maid Island	BNF07_MM_01595
14:41:03	Wrangell Island	BNF07_MM_01655
14:47:34	S. Side Biorka	BNF07_MM_01720
	Fuel Break: 145302 to 151433	
15:15:15	Post Refuel, Symonds Bay, Biorka	BNF07_MM_01812
15:23:26	S.W side Biorka	BNF07_MM_01912
15:29:23	S end Biorka	BNF07_MM_01966



**SE07\_SK\_04**  
**13 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-04

**General Location:** Deep Inlet, Silver Bay

**Date:** 13 June 2007

**Time Start:** 153930 (UTC) (073930 ADT)

**Transit:** 154925 to 155136

**Time Stop:** 161530 (UTC) (081530 ADT)

**Tape Length:** 33:48

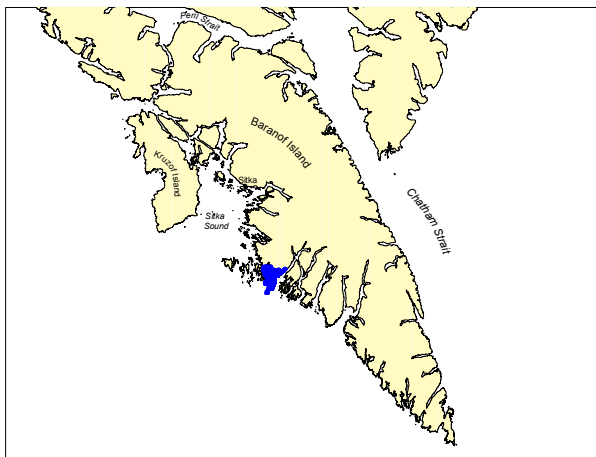
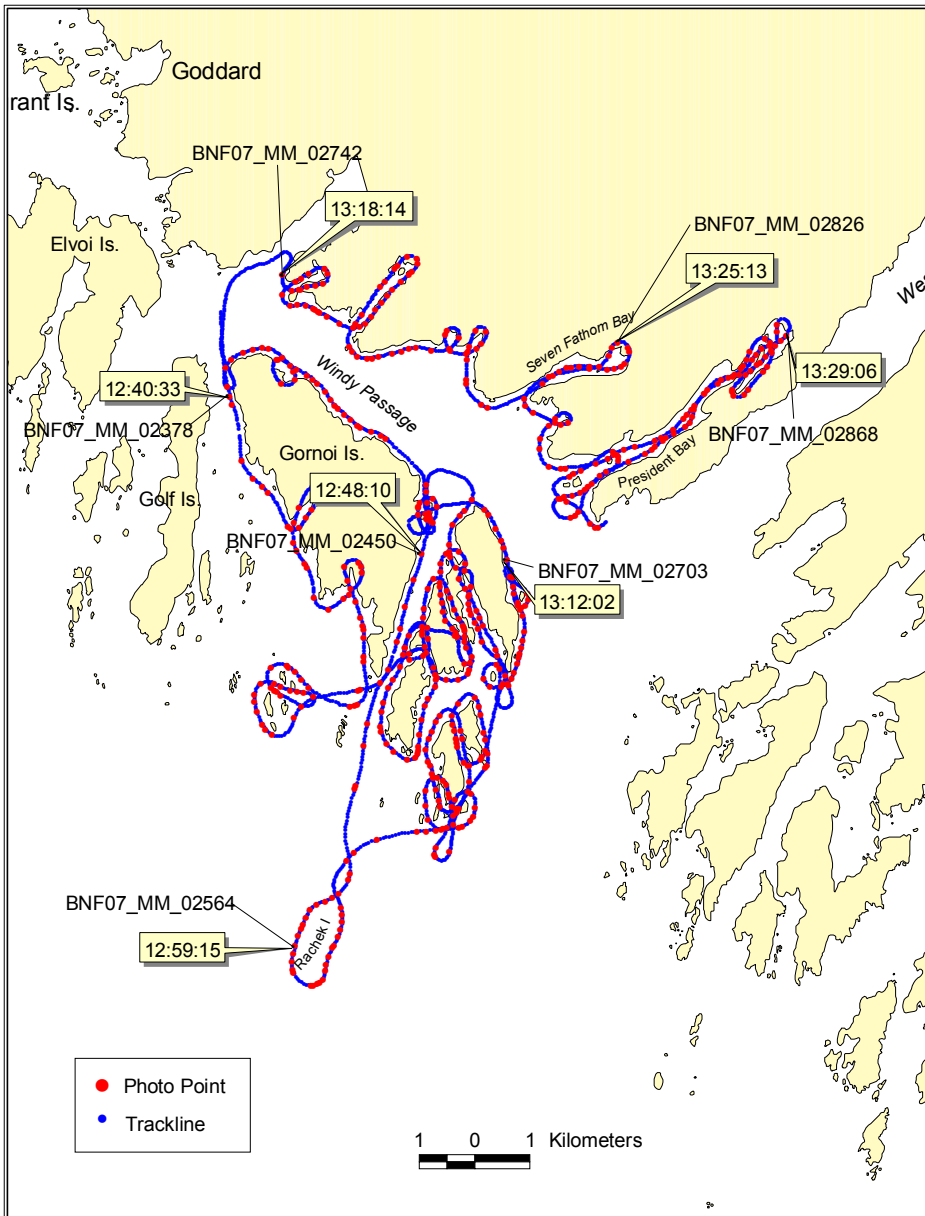
**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:39:51	Entrance to Deep Inlet (N side)	BNF07_MM_01992
15:44:03	Head of Deep Inlet	BNF07_MM_02036
15:48:57	Mouth of Deep Inlet (S side)	BNF07_MM_02098
	Transit: 154925 to 155136	
15:53:33	Harris Island near Sitka	BNF07_MM_02117
16:02:00	Bear Cove	BNF07_MM_02231
16:05:06	Head of Silver Bay	BNF07_MM_02268
16:13:31	Mouth of Silver Bay (S side)	BNF07_MM_02345



**SE07\_SK\_05**  
**14 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-05

**General Location:** Necker Islands, Crawfish Inlet, Rakof Islands

**Date:** 14 June 2007

**Time Start:** 124013 (UTC) (044013 ADT)

**Fuel Break:** none

**Time Stop:** 133445 (UTC) (053445 ADT)

**Tape Length:** 54:31

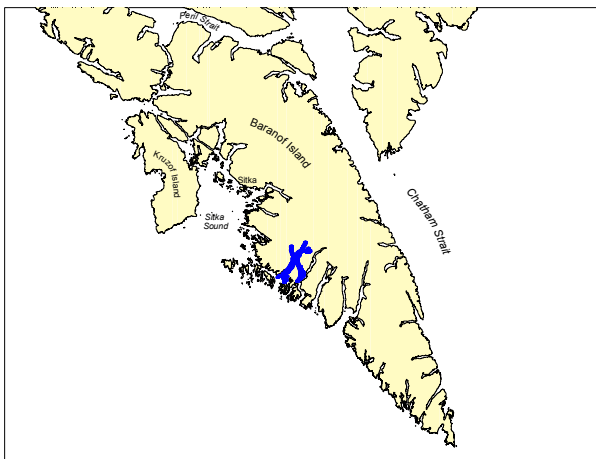
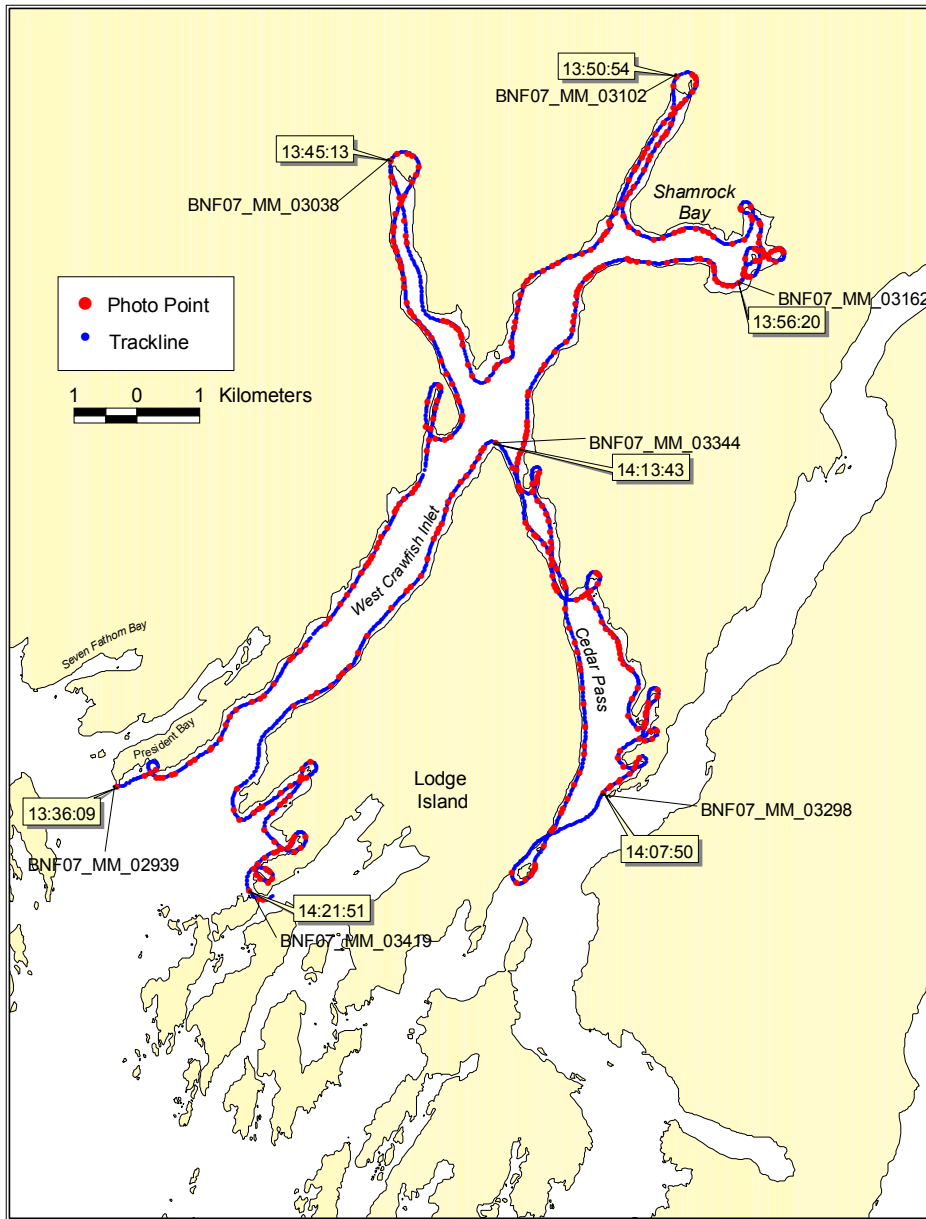
**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
12:40:33	N tip of Gornoi Is.	BNF07 MM 02378
12:48:10	E side of Gornoi Is.	BNF07 MM 02450
12:59:15	Rachek Is.	BNF07 MM 02564
13:12:02	Easternmost island, entrance of Windy Passage	BNF07 MM 02703
13:18:14	S entrance to Big Bay	BNF07 MM 02742
13:25:13	Head of Seven Fathom Bay	BNF07 MM 02826
13:29:06	Head of President Bay	BNF07 MM 02868



**SE07\_SK\_06**  
**14 June 2007**



**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-06

**General Location:** Crawfish Inlet, Lodge Island

**Date:** 14 June 2007

**Time Start:** 133604 (UTC) (053604 ADT)

**Fuel Break:** none

**Time Stop:** 142206 (UTC) (062206ADT)

**Tape Length:** 46:02

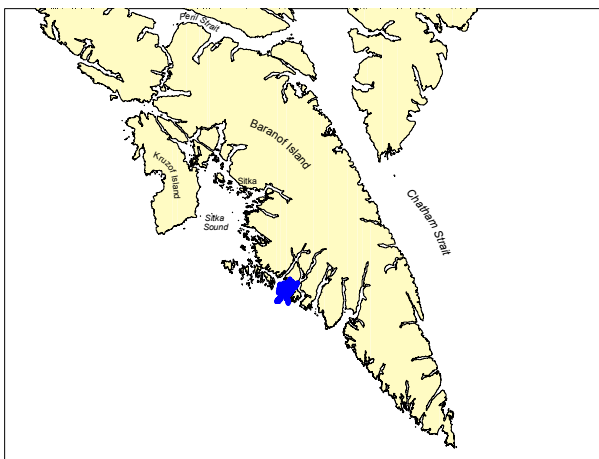
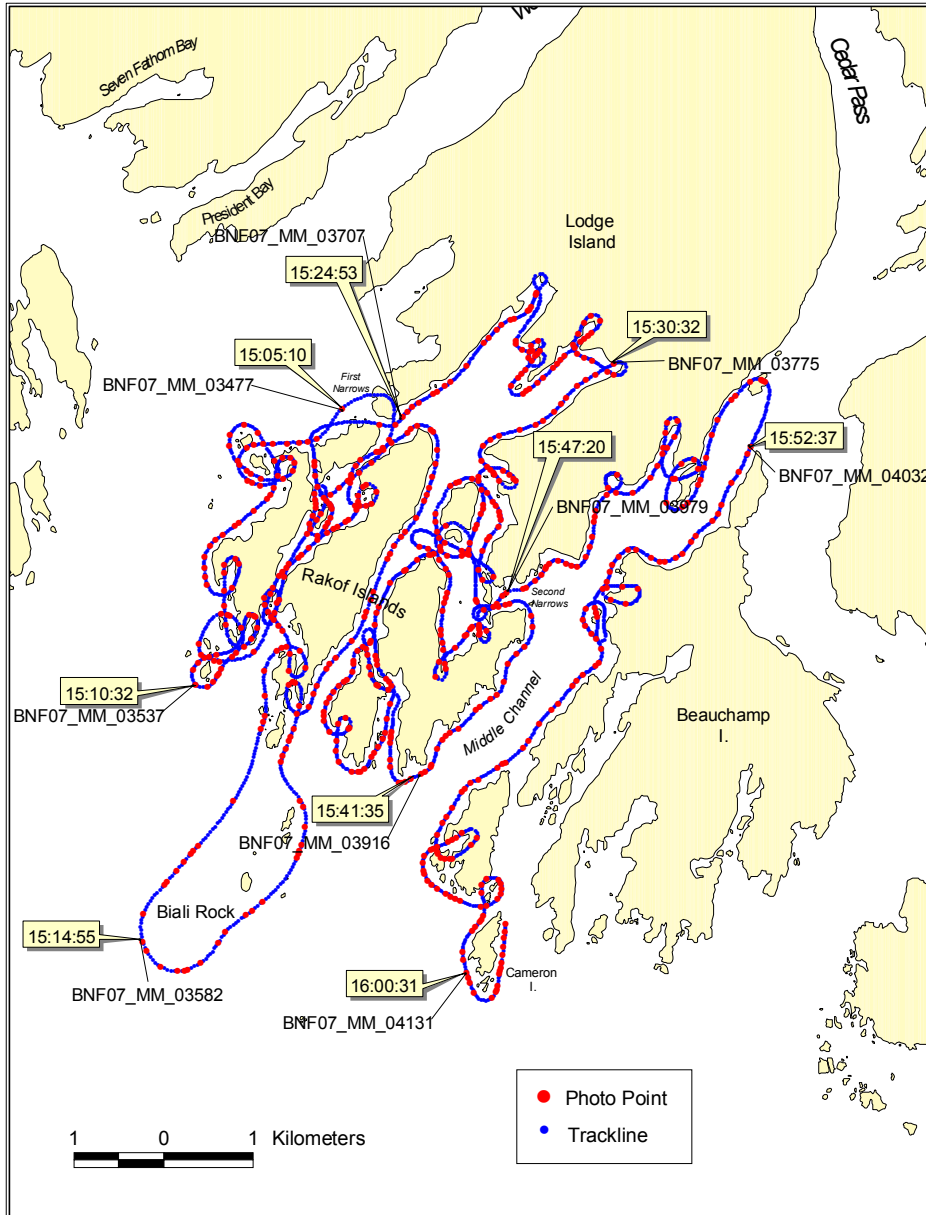
**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
13:36:09	N entrance to West Crawfish Inlet	BNF07 MM 02939
13:45:13	Head of NW arm of West Crawfish Inlet	BNF07 MM 03038
13:50:54	Head of West Crawfish Inlet	BNF07 MM 03102
13:56:20	Head of Shamrock Bay	BNF07 MM 03163
14:07:50	S entrance to Cedar Pass	BNF07 MM 03298
14:13:13	N tip of Lodge Island	BNF07 MM 03344
14:24:51	First Narrows, Lodge Island	BNF07 MM 03419



**SE07\_SK\_07**  
**14 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-07

**General Location:** Rakof Islands, Lodge Island, Beauchamp Island

**Date:** 14 June 2007

**Time Start:** 150248 (UTC) (070248 ADT)

**Fuel Break:** none

**Time Stop:** 160116 (UTC) (080116 ADT)

**Tape Length:** 58:28

**Geo:** Harper

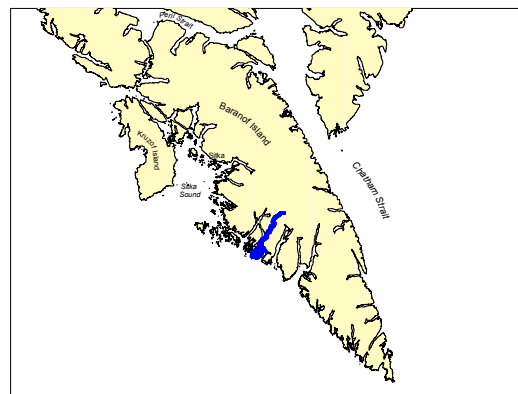
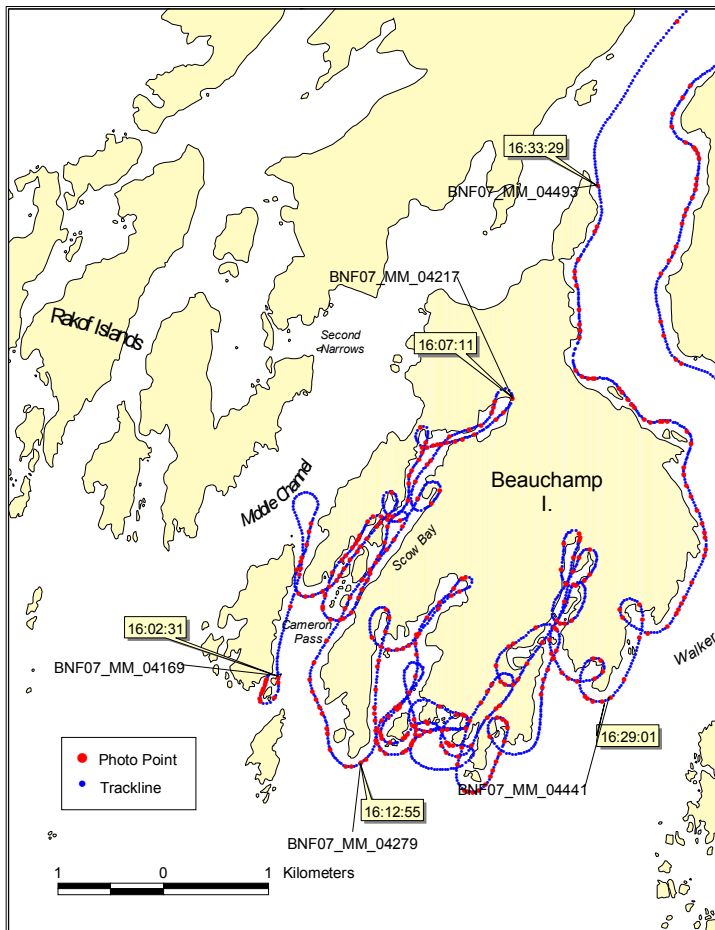
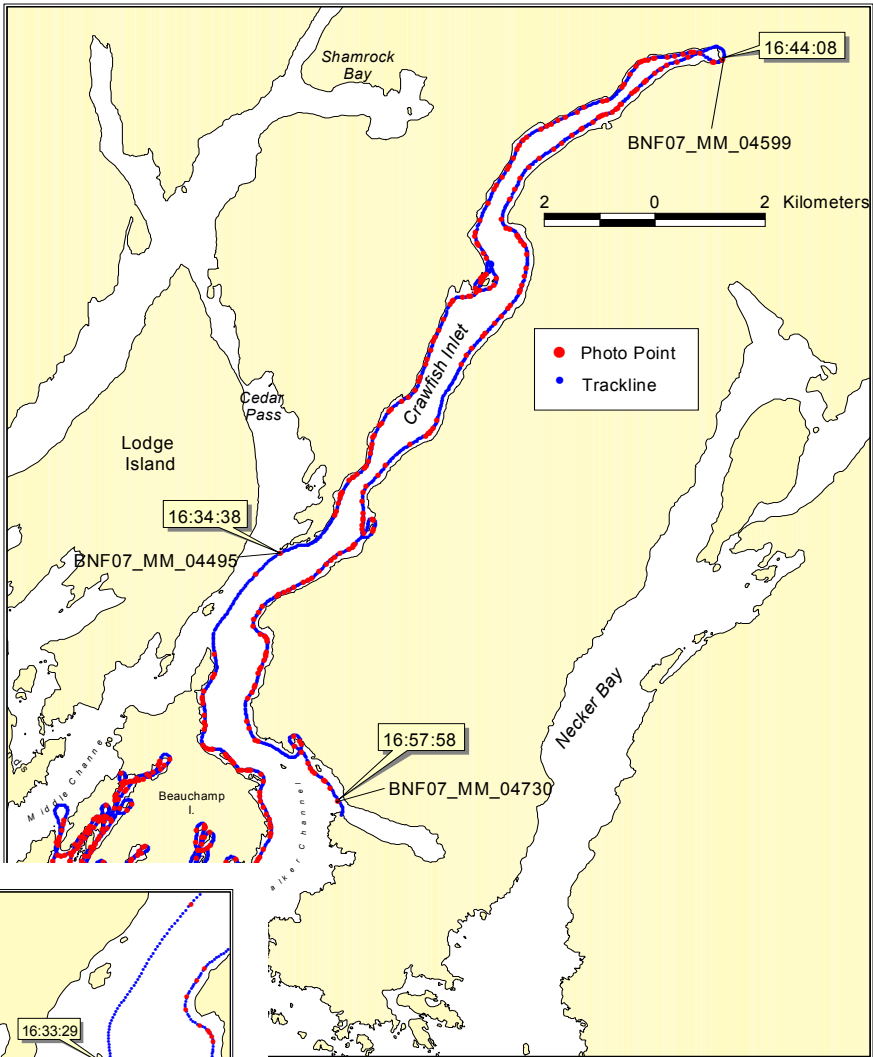
**Bio:** Morris

**Nav:** Borecky

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:05:10	First Narrows	BNF07_MM_03477
15:10:32	Outer SW Rakof Islands	BNF07_MM_03537
15:14:55	Biali Rock	BNF07_MM_03582
15:24:53	First Narrows, Lodge Island	BNF07_MM_03707
15:30:32	Southern bay on Lodge Island	BNF07_MM_03775
15:41:35	N side of Middle Channel	BNF07_MM_03916
15:52:37	N tip of Beauchamp Island	BNF07_MM_04032
16:00:31	Cameron Island	BNF07_MM_04131

**SE07\_SK\_08**  
**14 June 2007**



**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-08

**General Location:** Beauchamp Island, Crawfish Inlet to Jamboree Bay

**Date:** 14 June 2007

**Time Start:** 160152 (UTC) (080152 ADT)

**Fuel Break:** none

**Time Stop:** 165808 (UTC) (085808 ADT)

**Tape Length:** 56:16

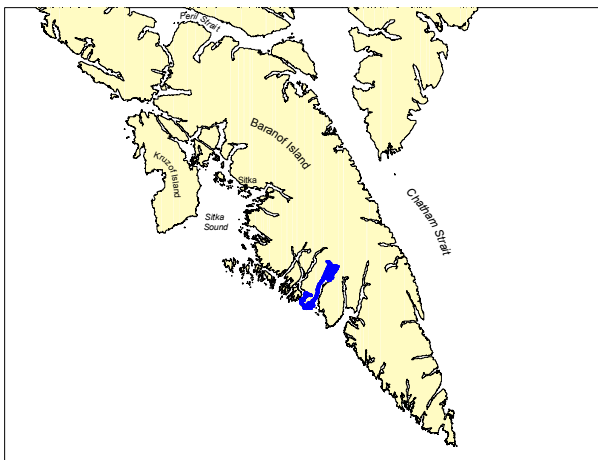
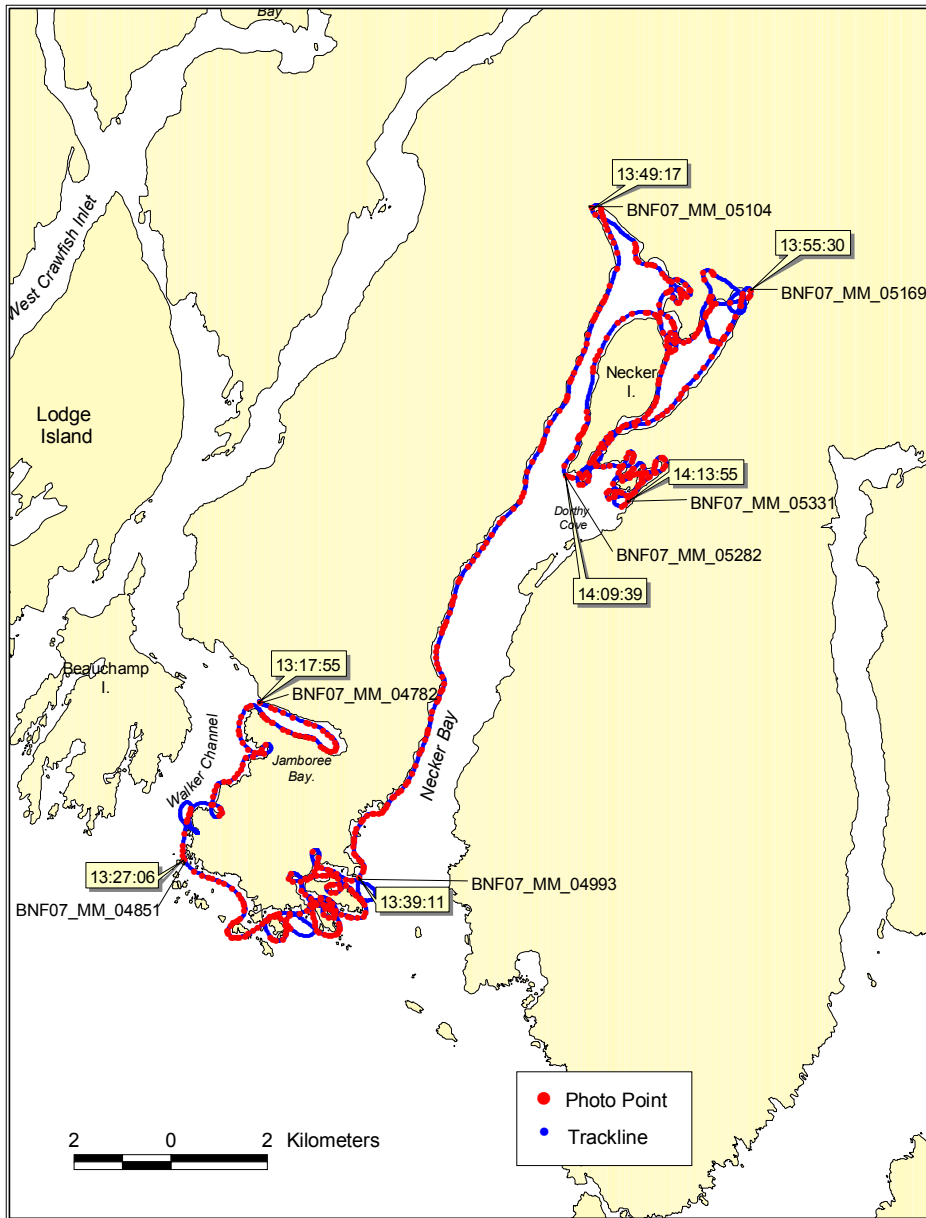
**Geo:** Harper

**Bio:** Morris

**Nav:** Borecky

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:02:31	Cameron Pass	BNF07 MM 04169
16:07:11	Head of Scow Bay	BNF07 MM 04217
16:12:55	S tip of Beauchamp Island	BNF07 MM 04279
16:29:01	Walker Channel, e. side Beauchamp Island	BNF07 MM 04441
16:33:29	N tip of Beauchamp Island	BNF07 MM 04493
16:44:08	Head of Crawfish Inlet	BNF07 MM 04599
16:57:58	Mouth of Jamboree Bay	BNF07 MM 04730



**SE07\_SK\_09**  
**15 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-09

**General Location:** Walker Channel, Necker Bay

**Date:** 15 June 2007

**Time Start:** 131735 (UTC) (051735 ADT)

**Fuel Break:** none

**Time Stop:** 141628 (UTC) (061628 ADT)

**Tape Length:** **58:53**

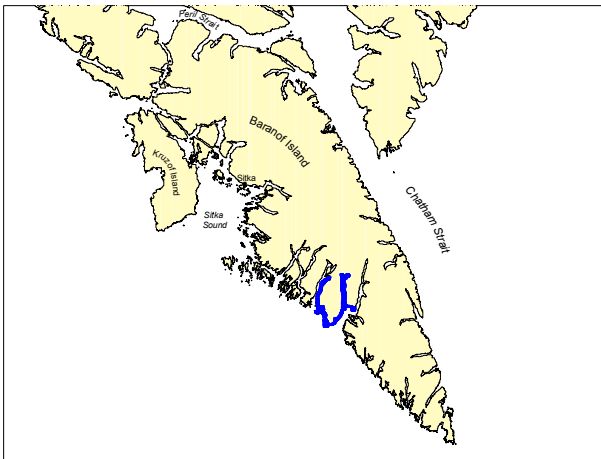
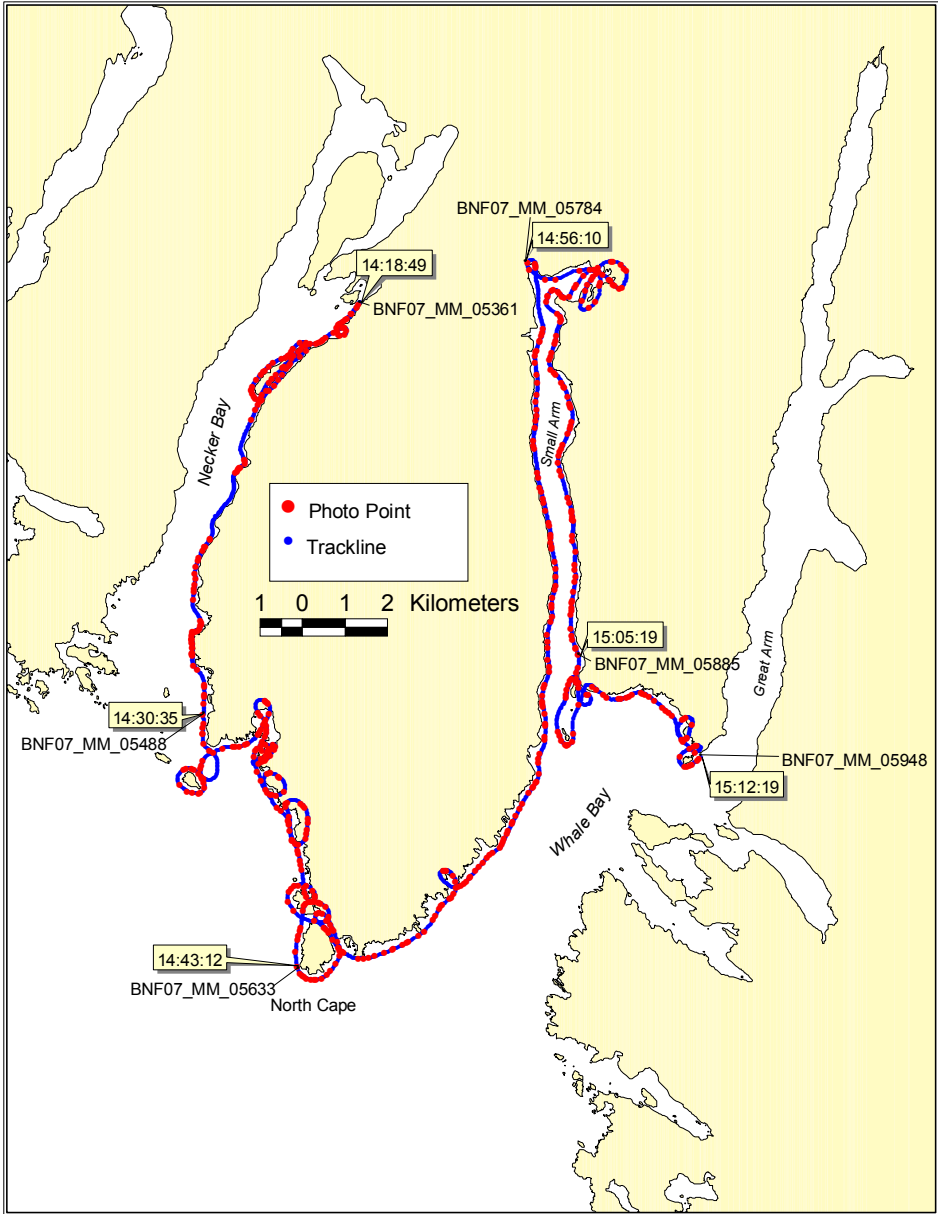
**Geo:** Borecky

**Bio:** Morris

**Nav:** Lorrigan

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
13:17:55	N entrance, Jamboree Bay	BNF07_MM_04782
13:27:05	SE entrance, Walker Channel	BNF07_MM_04851
13:39:11	NW mouth, Necker Bay	BNF07_MM_04993
13:49:17	Head of Necker Bay, west arm	BNF07_MM_05104
13:55:30	Head of Necker Bay, east arm	BNF07_MM_05169
14:09:39	S tip of Necker I.	BNF07_MM_05282
14:13:55	Dorothy Cove	BNF07_MM_05331



**SE07\_SK\_10**  
**15 June 2007**



**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-10

**General Location:** W. Necker Bay, E. Whale Bay

**Date:** 15 June 2007

**Time Start:** 141844 (UTC) (061844 ADT)

**Fuel Break:** none

**Time Stop:** 151221 (UTC) (071221 ADT)

**Tape Length:** 53:38

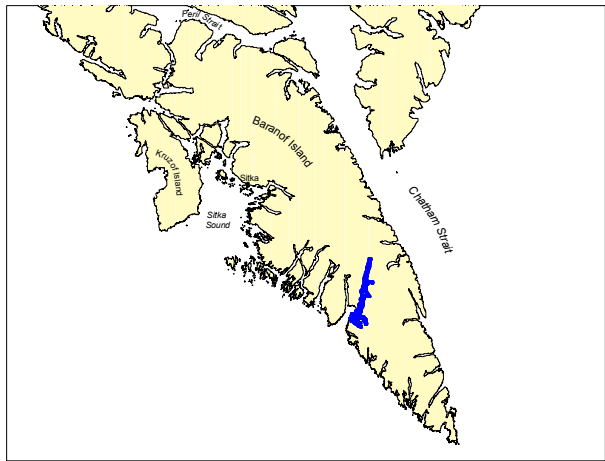
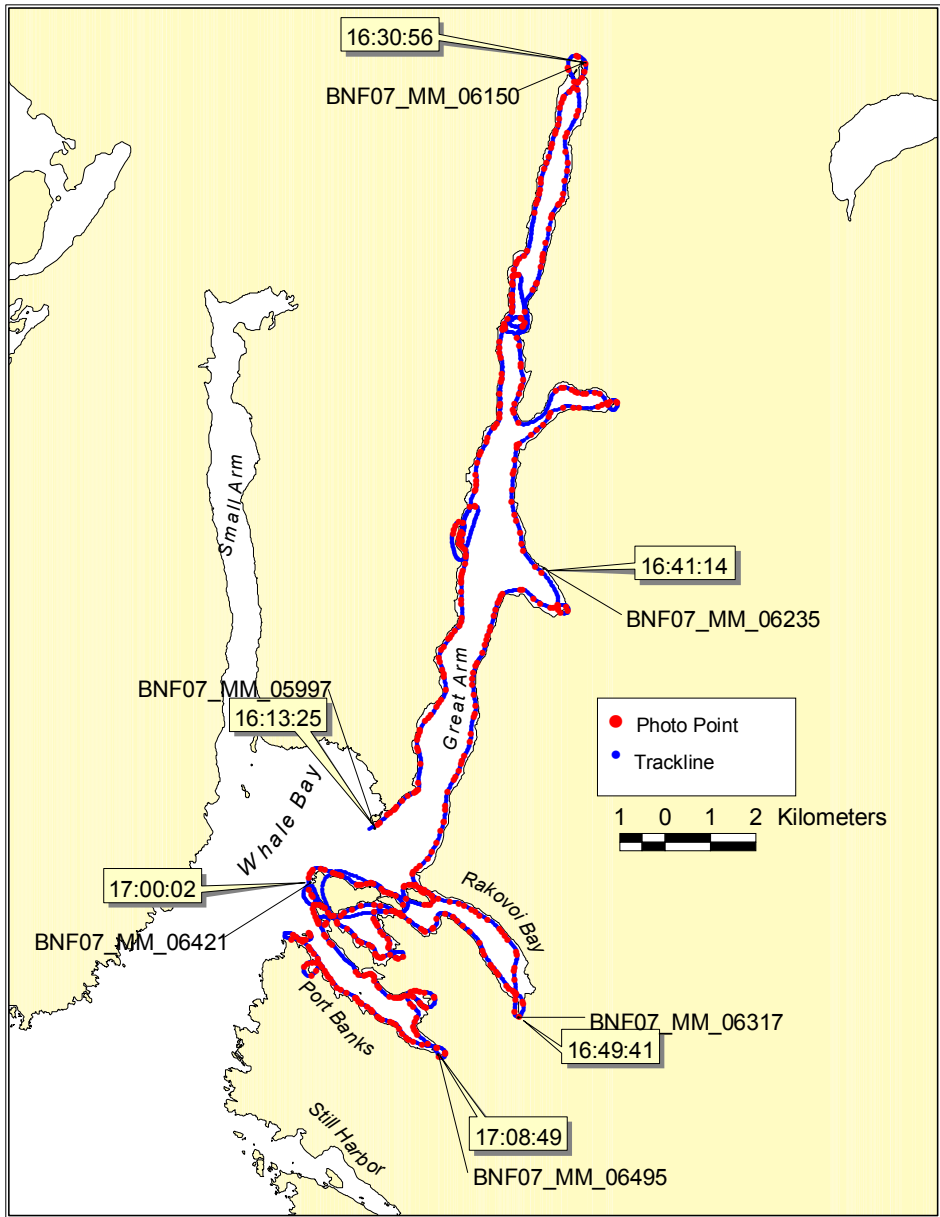
**Geo:** Borecky

**Bio:** Morris

**Nav:** Lorrigan

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:18:49	Dorthy Cove, Necker Bay	BNF07_MM_05361
14:30:35	SE entrance, Necker Bay	BNF07_MM_05488
14:43:12	North Cape	BNF07_MM_05633
14:56:10	Head of Small Arm, Whale Bay	BNF07_MM_05784
15:05:19	SE entrance to Small Arm, Whale Bay	BNF07_MM_05885
15:12:19	SW entrance to Great Arm, Whale Bay	BNF07_MM_05948



**SE07\_SK\_11**  
**15 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-11

**General Location:** Whale Bay, Whale Bay's Great Arm, Rakavoi Bay, Port Banks

**Date:** 15 June 2007

**Time Start:** 161318 (UTC) (081318 ADT)

**Fuel Break:** none

**Time Stop:** 171322 (UTC) (091322 ADT)

**Tape Length:** 52:41

**Geo:** Borecky

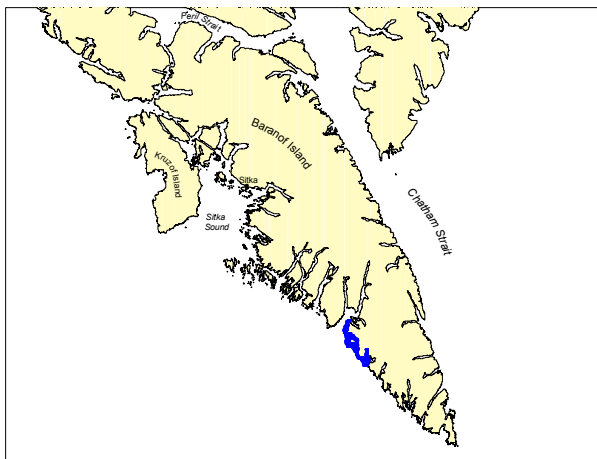
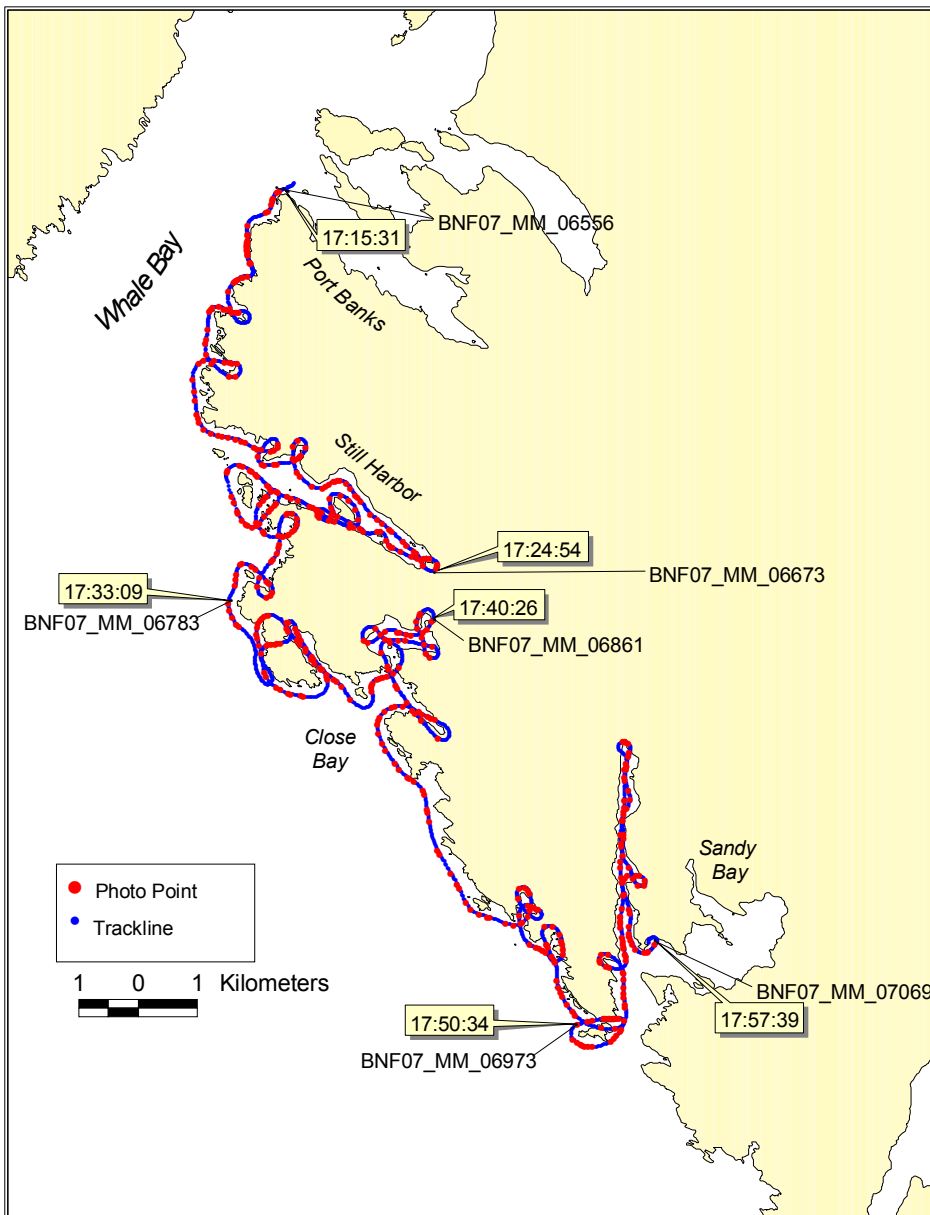
**Bio:** Morris

**Nav:** Lorrigan

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:13:25	SW entrance to Great Arm, Whale Bay	BNF07 MM 05997
16:30:56	Head of Great Arm, Whale Bay	BNF07 MM 06150
16:41:14	Halfway point of Great Arm, east side	BNF07 MM 06235
16:49:41	Head of Rakovoi Bay	BNF07 MM 06317
17:00:02	NW tip of Rakovoi Island	BNF07 MM 06421
17:08:49	Head of Port Banks	BNF07 MM 06495

Note: Recorder tape is missing about 1 minute at the beginning of the tape. Audio problems created several breaks in this tape after the between-tape refuel.



**SE07\_SK\_12**  
**15 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-12

**General Location:** Whale Bay, Still Harbor to Sandy Bay

**Date:** 15 June 2007

**Time Start:** 171517 (UTC) (091517 ADT)

**Fuel Break:** none

**Time Stop:** 175737 (UTC) (095737 ADT)

**Tape Length:** 42:19

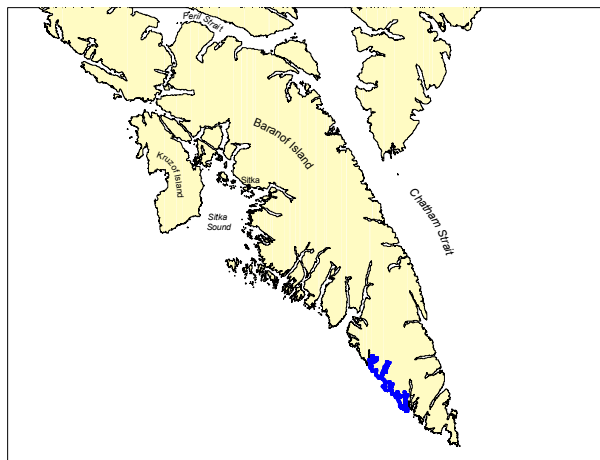
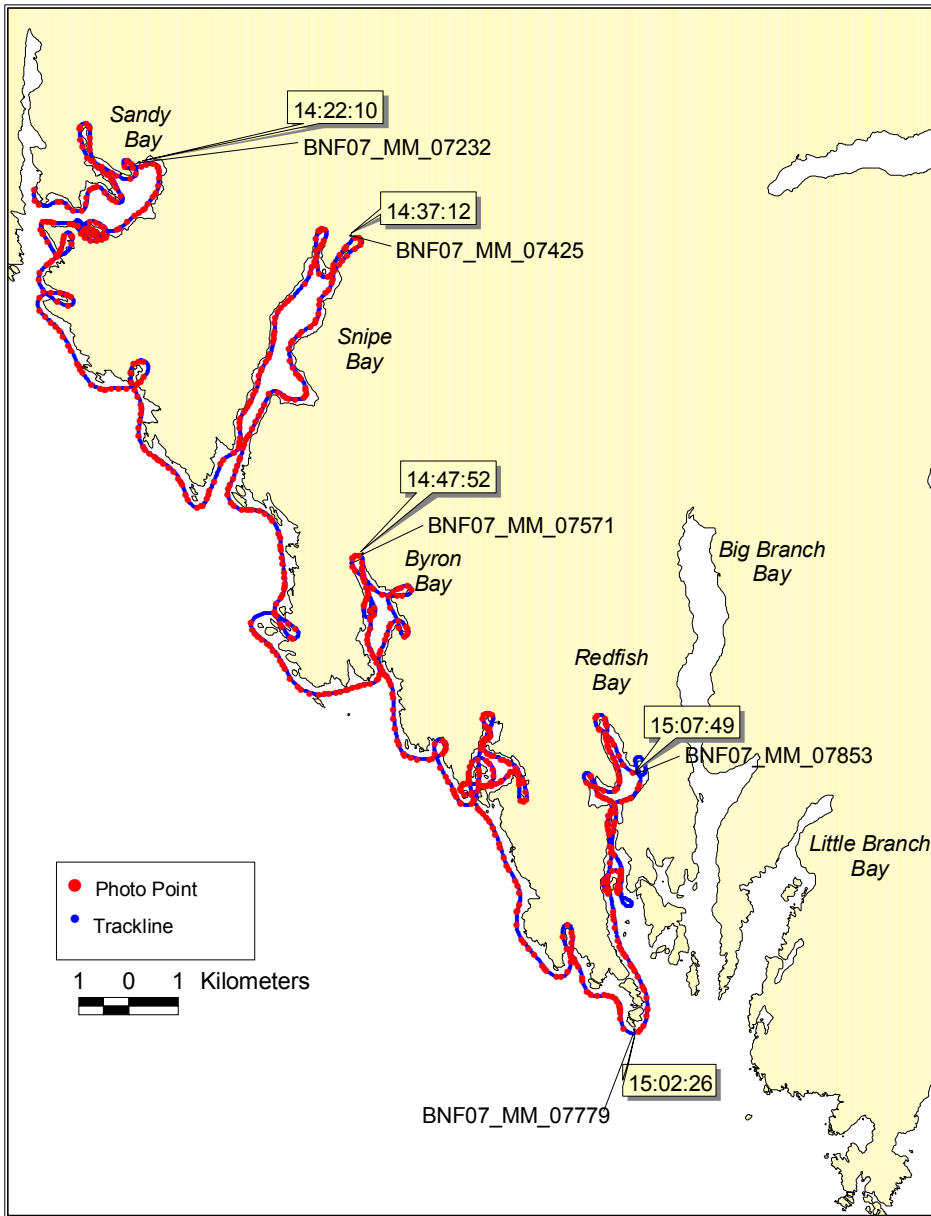
**Geo:** Borecky

**Bio:** Morris

**Nav:** Lorrigan

**Weather:** clear, none to light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:15:31	Port Banks, Whale Bay	BNF07_MM_06556
17:24:54	Head of Still Harbor, Whale Bay	BNF07_MM_06773
17:33:09	SE entrance of Whale Bay	BNF07_MM_06783
17:40:26	Head of Close Bay	BNF07_MM_06861
17:50:34	NW entrance to Sandy Bay	BNF07_MM_06973
17:57:39	Mid-point Sandy Bay	BNF07_MM_07069



**SE07\_SK\_13**  
**16 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-13

**General Location:** Sandy Bay, Snipe Bay, Byron Bay, Redfish Bay

**Date:** 16 June 2007

**Time Start:** 141715 (UTC) (061715 ADT)

**Fuel Break:** none

**Time Stop:** 151129 (UTC) (071129 ADT)

**Tape Length:** 56:28

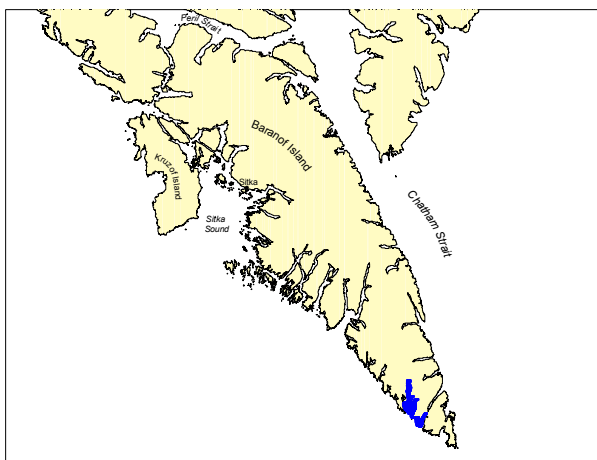
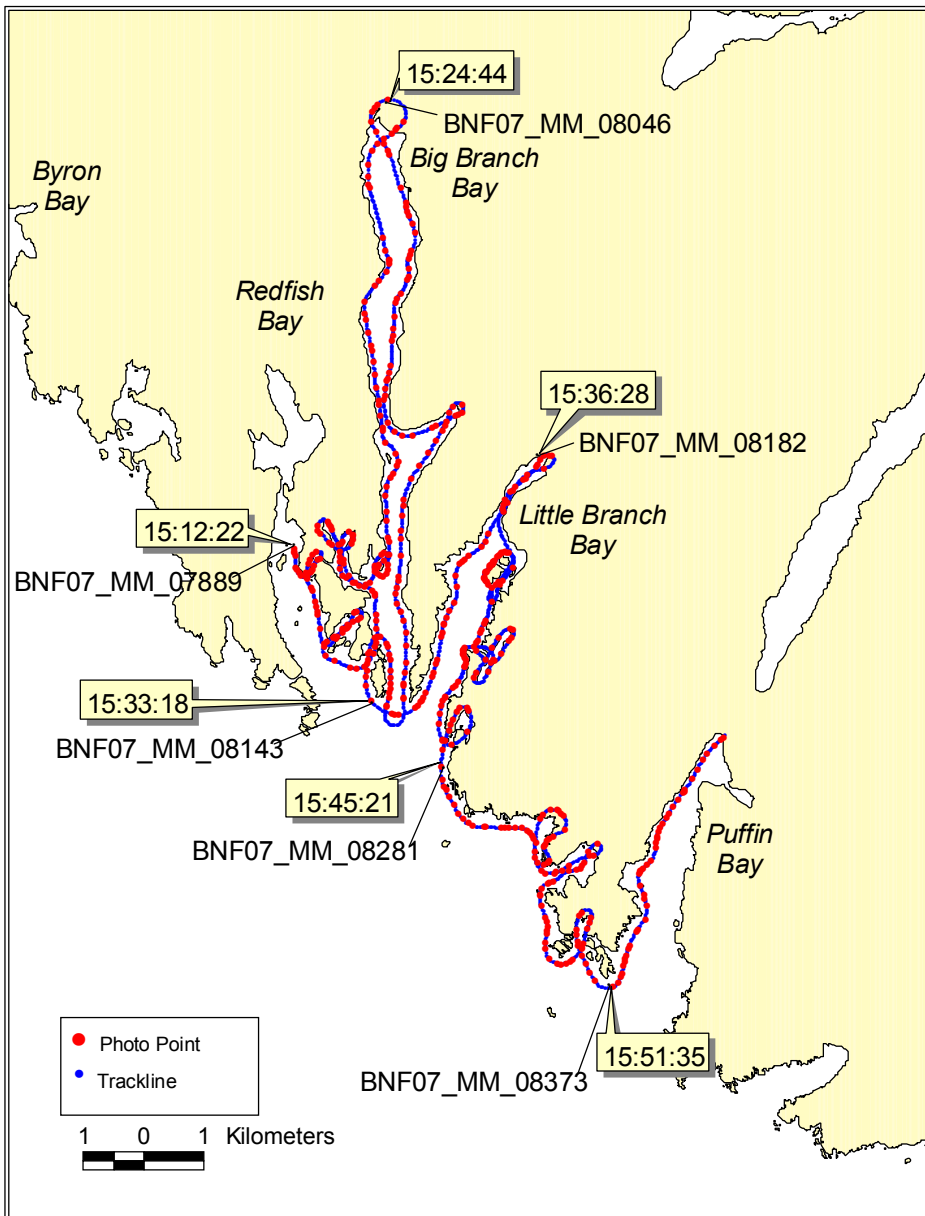
**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** high overcast, windy at times

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:22:10	Sandy Bay	BNF07_MM_07232
14:37:12	Head of Snipe Bay	BNF07_MM_07425
14:47:52	Head of Byron Bay	BNF07_MM_07571
15:02:49	NW entrance to Redfish Bay	BNF07_MM_07779
15:07:49	Head of Redfish Bay	BNF07_MM_07853



**SE07\_SK\_14**  
**16 June 2007**



**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-14

**General Location:** Redfish Bay, Big Branch Bay, Little Branch Bay, Puffin Bay

**Date:** 16 June 2007

**Time Start:** 151222 (UTC) (071222 ADT)

**Fuel Break:** none

**Time Stop:** 155417 (UTC) (075417 ADT)

**Tape Length:** 44:05

**Geo:** Borecky

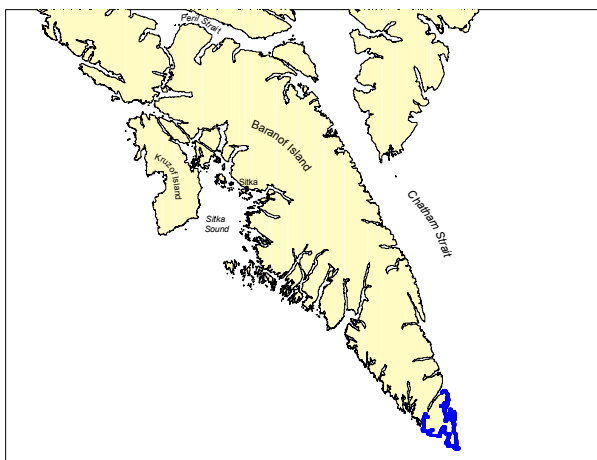
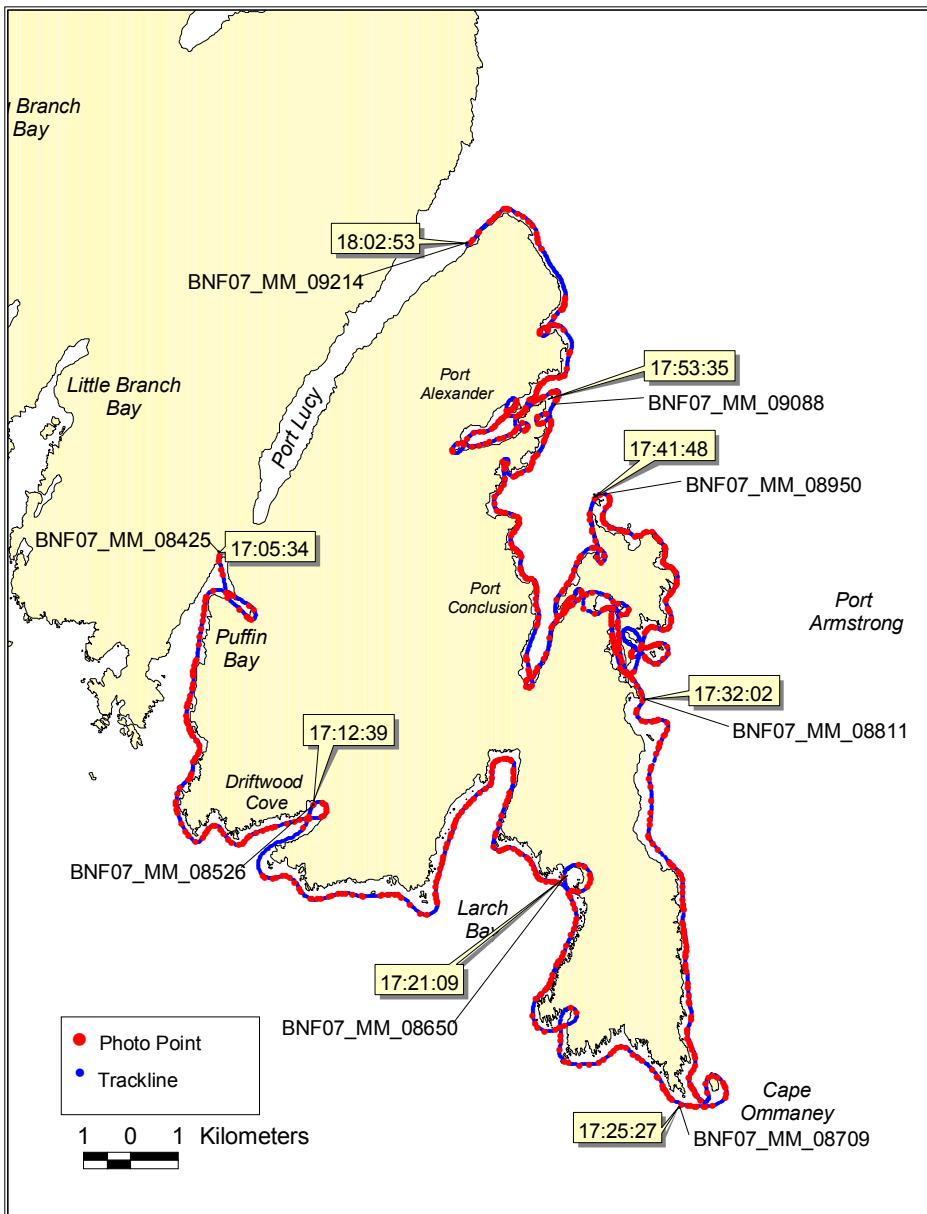
**Bio:** Morris

**Nav:** Harper

**Weather:** Sunny to partly cloudy, very windy at times

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:12:22	Red Fish Bay, near Midway I.	BNF07_MM_07889
15:24:44	Head of Big Branch Bay	BNF07_MM_08046
15:33:18	Mouth of Big Branch Bay, Beavertail I.	BNF07_MM_08143
15:36:18	Head of Little Branch Bay	BNF07_MM_08182
15:45:21	SE side of entrance to Little Branch Bay	BNF07_MM_08281
15:51:35	SW entrance to Puffin Bay	BNF07_MM_08373

Note: Little Port Walter refuel after north side of Puffin Bay



**SE07\_SK\_15**  
**16 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-15

**General Location:** Puffin Bay to Cape Ommaney, Port Alexander, Port Armstrong

**Date:** 16 June 2007

**Time Start:** 170531 (UTC) (090531 ADT)

**Fuel Break:** none

**Time Stop:** 180258 (UTC) (100258 ADT)

**Tape Length:** 56:28

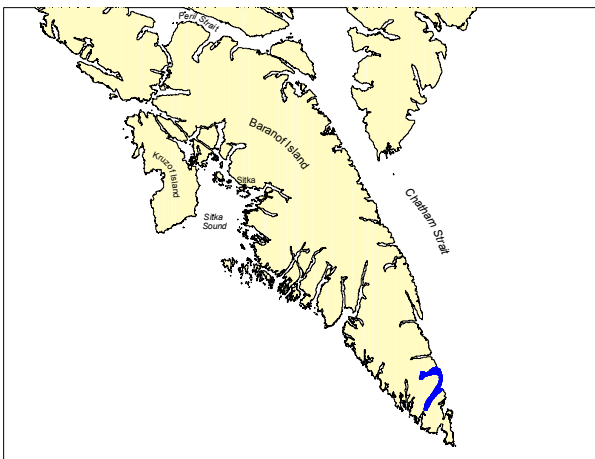
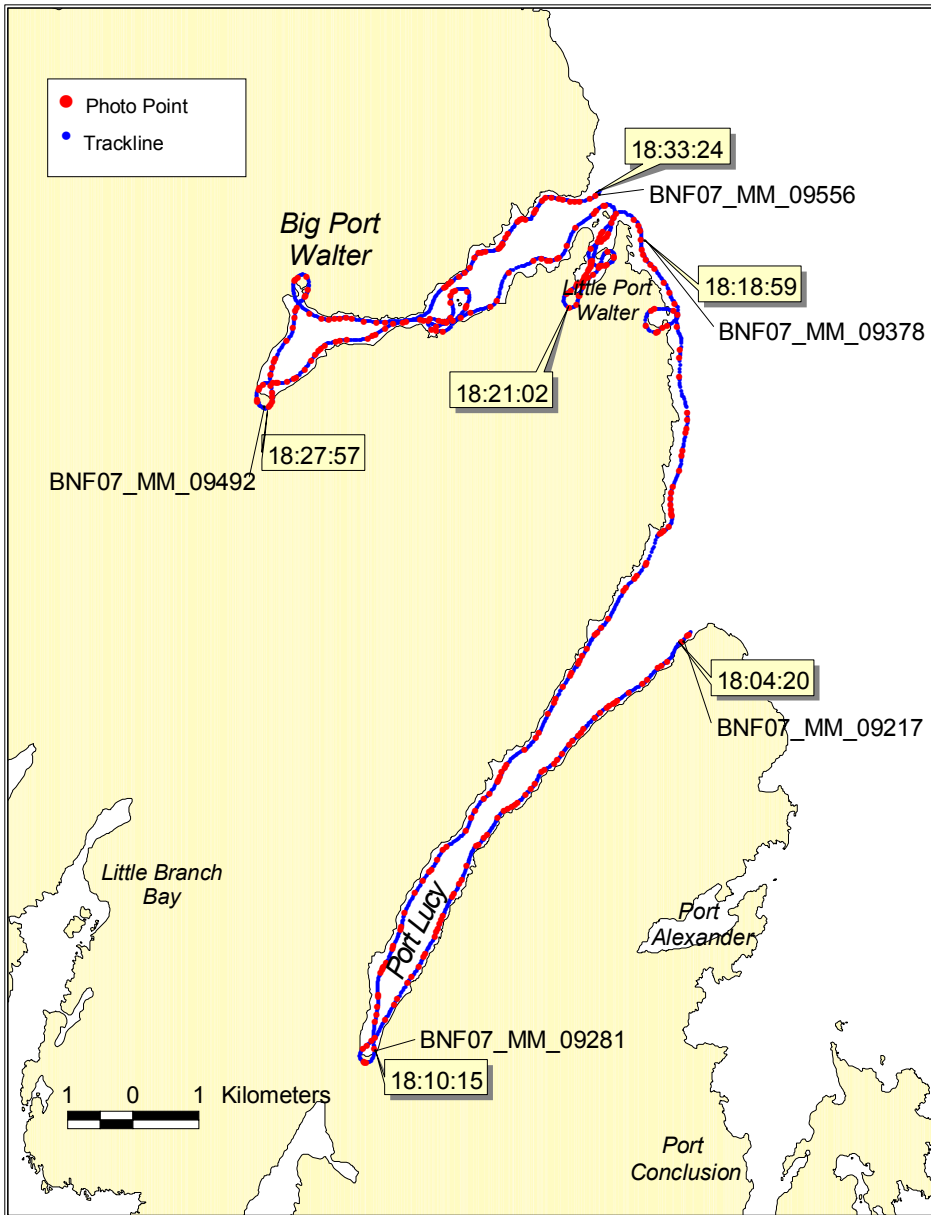
**Geo:** Harper

**Bio:** Morris

**Nav:** Borecky

**Weather:** Sunny, very windy at times, which affected camera stability

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:05:34	Head of Puffin Bay	BNF07_MM_08425
17:12:39	Head of Driftwood Cove	BNF07_MM_08526
17:21:09	Mid-point in Larch Bay	BNF07_MM_08650
17:25:27	Cape Ommaney	BNF07_MM_08709
17:32:02	Entrance to Port Armstrong	BNF07_MM_08811
17:41:48	Entrance to Port Conclusion	BNF07_MM_08950
17:53:35	Entrance to Port Alexander	BNF07_MM_09088
18:02:53	Entrance to Port Lucy	BNF07_MM_09214



**SE07\_SK\_16**  
**16 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-16

**General Location:** Port Lucy, Port Walter

**Date:** 16 June 2007

**Time Start:** 180411 (UTC) (100411 ADT)

**Fuel Break:** none

**Time Stop:** 183335 (UTC) (103335 ADT)

**Tape Length:** 31:35

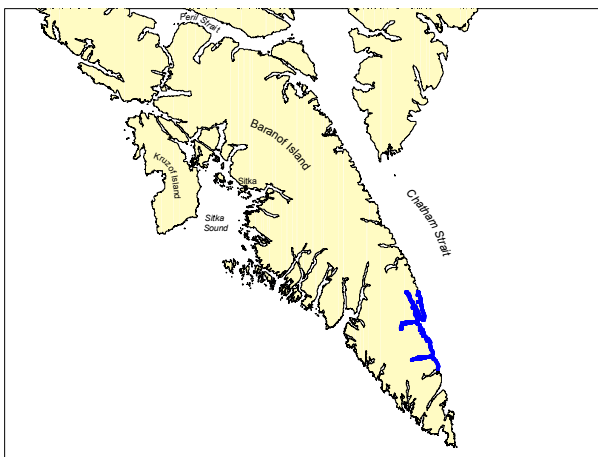
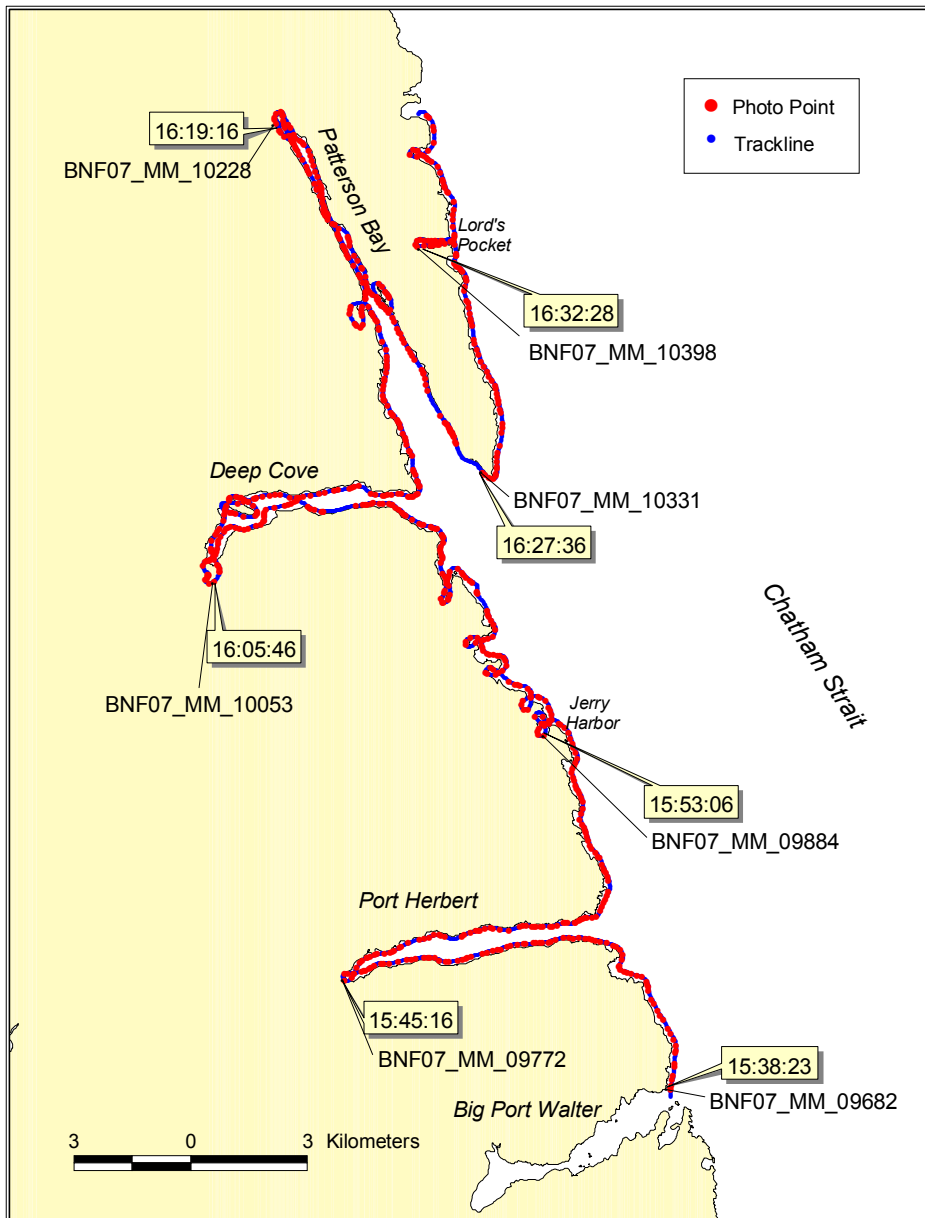
**Geo:** Harper

**Bio:** Morris

**Nav:** Borecky

**Weather:** Sunny, light winds

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
18:04:20	SE entrance to Port Lucy	BNF07_MM_09217
18:10:15	Head of Port Lucy	BNF07_MM_09281
18:18:59	Entrance to Little Port Walter	BNF07_MM_09378
18:27:57	Head of Big Port Walter (abandoned cannery)	BNF07_MM_09492
18:33:24	N entrance to Big Port Walter	BNF07_MM_09556



**SE07\_SK\_17**  
**17 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-17

**General Location:** Port Herbert, Deep Cove, Patterson Bay, Lord's Pocket

**Date:** 17 June 2007

**Time Start:** 153816 (UTC) (073816 ADT)

**Fuel Break:** none

**Time Stop:** 163534 (UTC) (083534 ADT)

**Tape Length:** 57:13

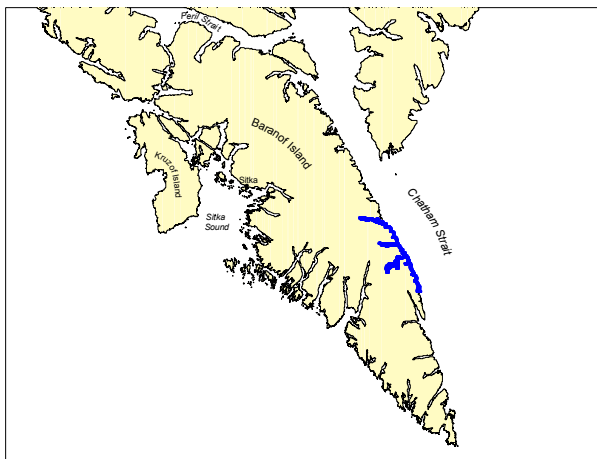
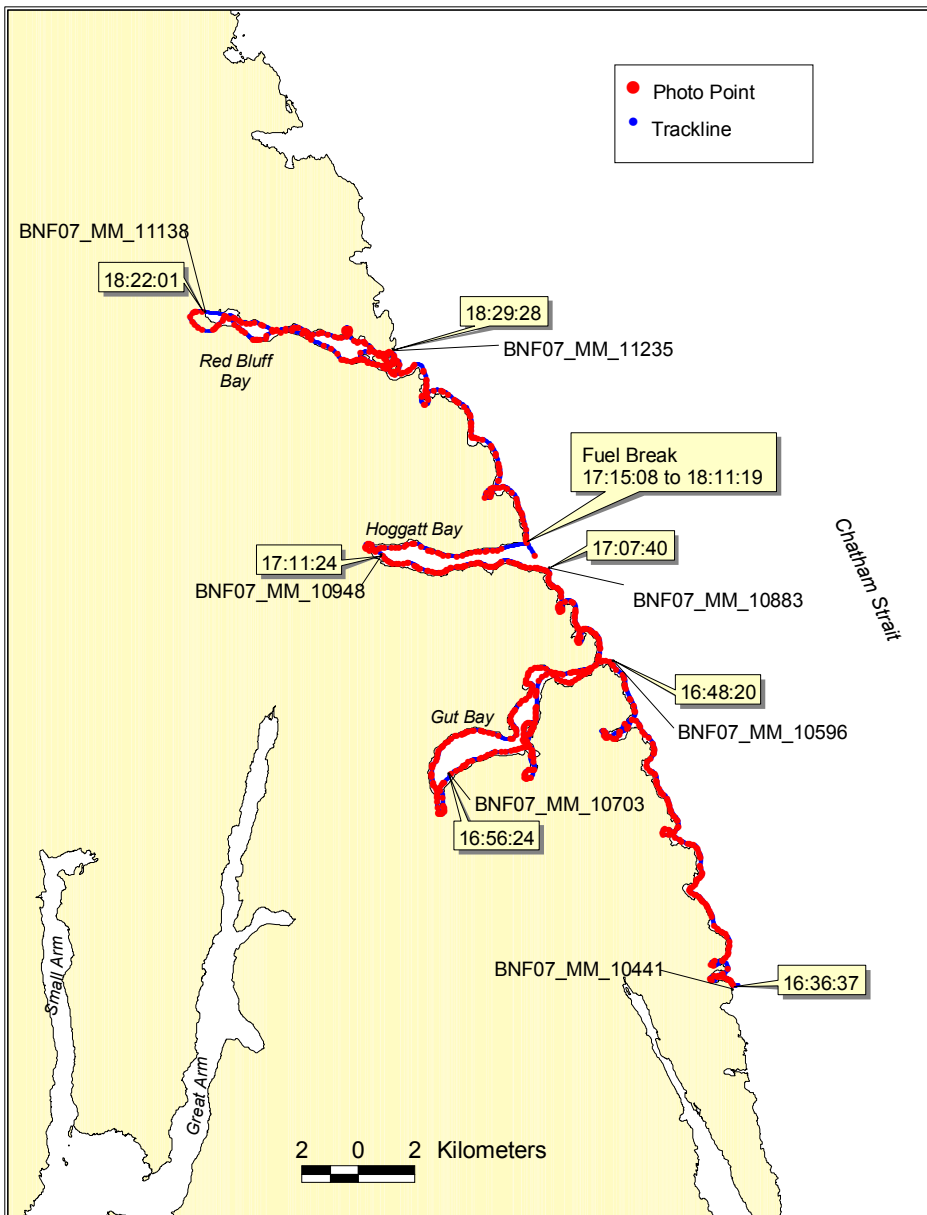
**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** High overcast, light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:38:23	N entrance to Big Port Walter	BNF07 MM 09682
15:45:16	Head of Port Herbert	BNF07 MM 09772
15:53:06	Jerry Harbor	BNF07 MM 09884
16:05:46	Head of Deep Cove	BNF07 MM 10053
16:19:16	Head of Patterson Bay	BNF07 MM 10228
16:27:36	Patterson Point	BNF07 MM 10331
16:32:28	Lord's Pocket	BNF07 MM 10398



**SE07\_SK\_18**  
**17 June 2007**



**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-18

**General Location:** Gut Bay, Port Hoggatt, Red Bluff Bay

**Date:** 17 June 2007

**Time Start:** 163623 (UTC) (083623 ADT)

**Fuel Break:** 171508 to 181119

**Time Stop:** 183026 (UTC) (103026 ADT)

**Tape Length:** 57:46

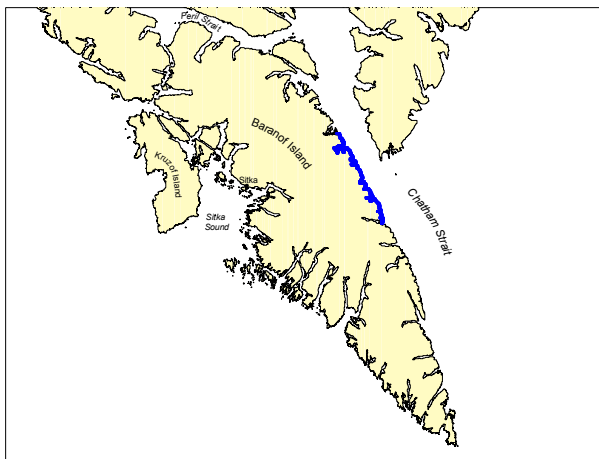
**Geo:** Borecky/Harper

**Bio:** Morris

**Nav:** Harper/Borecky

**Weather:** High overcast, light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:36:37	Chatham Strait, north of Lord's Pocket	BNF07_MM_10441
16:48:20	S entrance to Gut Bay	BNF07_MM_10596
16:56:24	Head of Gut Bay	BNF07_MM_10703
17:07:40	S entrance to Hoggatt Bay	BNF07_MM_10883
17:11:24	Head of Hoggatt Bay	BNF07_MM_10948
	Fuel Break 17:15:08 to 18:11:19	
18:22:01	Head of Red Bluff Bay	BNF07_MM_11235
18:29:28	N side of entrance to Red Bluff Bay	BNF07_MM_11138



**SE07\_SK\_19**  
**17 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-19

**General Location:** Red Bluff Bay, Baranof Warm Springs to Takatz Bay

**Date:** 17 June 2007

**Time Start:** 183056 (UTC) (103056 ADT)

**Fuel Break:** none

**Time Stop:** 191600 (UTC) (111600 ADT)

**Tape Length:** 45:04

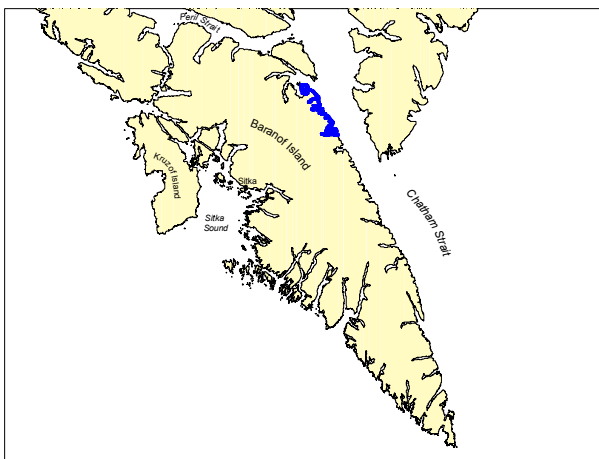
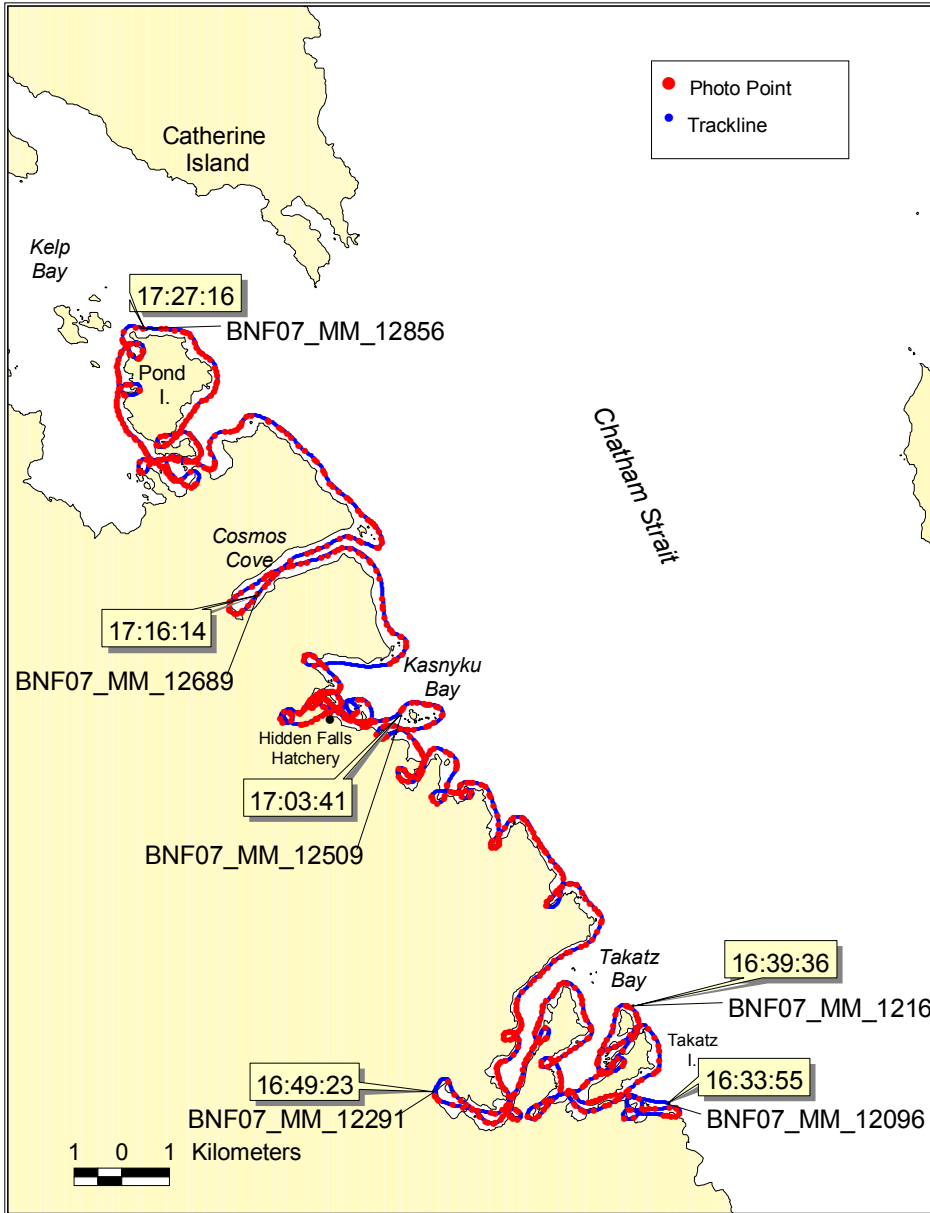
**Geo:** Harper

**Bio:** Morris

**Nav:** Borecky

**Weather:** High overcast, light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
18:31:24	N entrance Red Bluff Bay	BNF07_MM_11246
18:46:01	Nelson Bay	BNF07_MM_11428
18:55:08	Cascade Bay	BNF07_MM_11579
19:06:11	Head of Warm Springs Bay (Baranof Warm Springs)	BNF07_MM_11733
19:15:46	S entrance to Takatz Bay	BNF07_MM_11870



**SE07\_SK\_20**  
**18 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-20

**General Location:** Takatz Bay, Hidden Falls Hatchery, Kelp Bay (Pond Island)

**Date:** 18 June 2007

**Time Start:** 163226 (UTC) (083226 ADT)

**Fuel Break:** none

**Time Stop:** 173038 (UTC) (093028 ADT)

**Tape Length:** 58:11

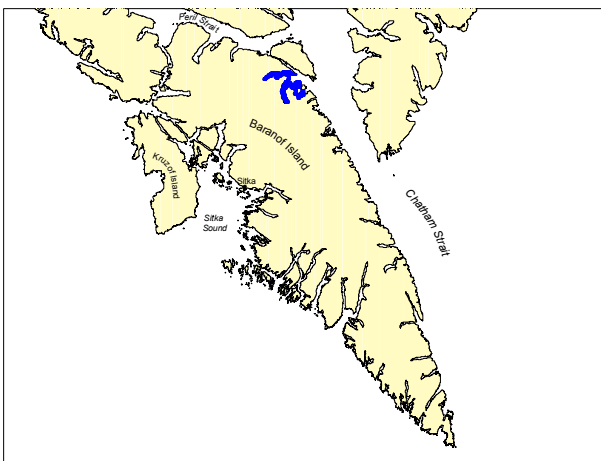
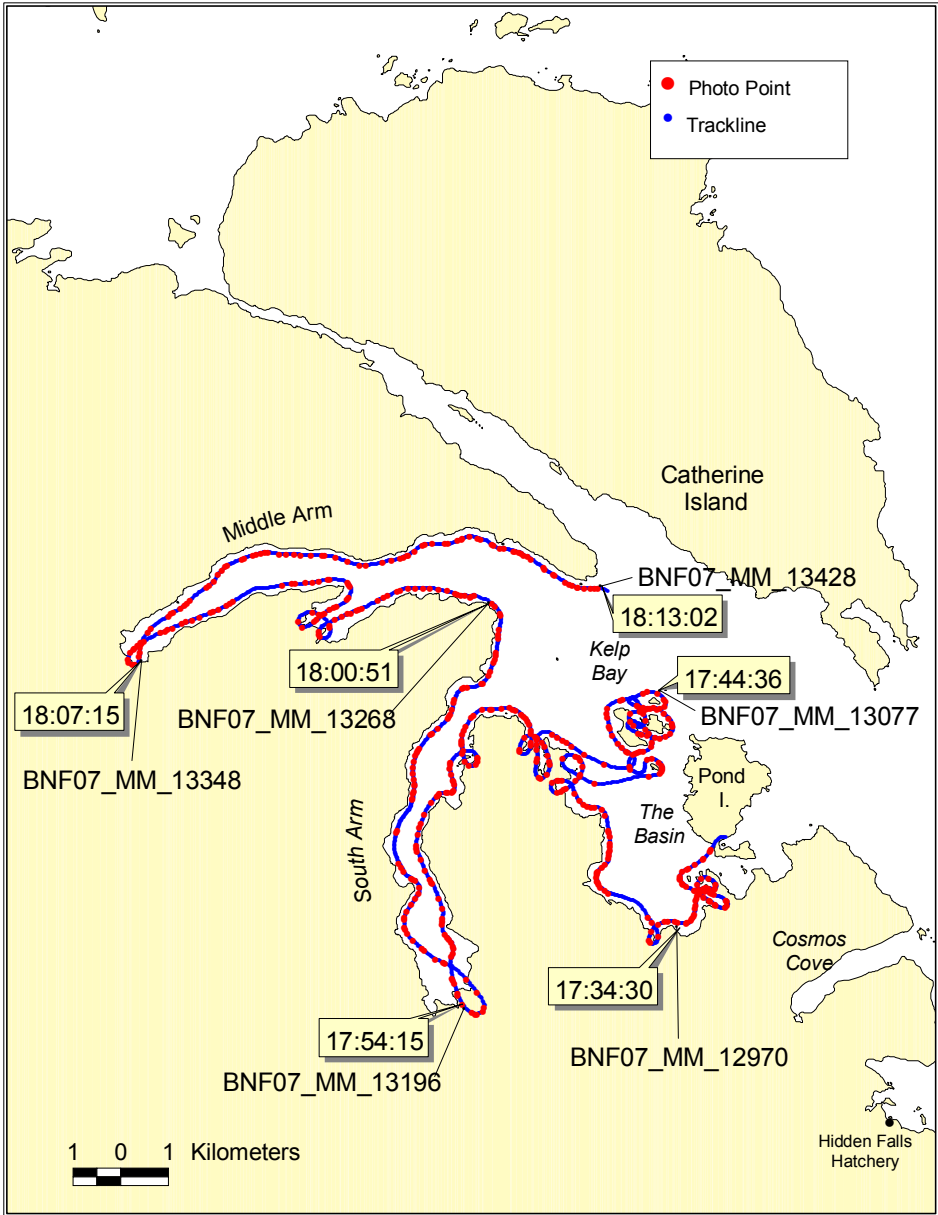
**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** High overcast, light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:33:55	S entrance to Takatz Bay	BNF07_MM_12096
16:39:36	N tip of Takatz Islands	BNF07_MM_12165
16:49:23	Head of Takatz Bay	BNF07_MM_12291
17:03:41	Entering Hidden Falls Hatchery	BNF07_MM_12509
17:16:14	Near head of Cosmos Cove	BNF07_MM_12689
17:27:16	N tip of Pond I.	BNF07_MM_12856



**SE07\_SK\_21**  
**18 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-21

**General Location:** Kelp Bay Basin, South Arm, Middle Arm

**Date:** 18 June 2007

**Time Start:** 173112 (UTC) (093112 ADT)

**Fuel Break:** none

**Time Stop:** 181308 (UTC) (101308 ADT)

**Tape Length:** 41:51

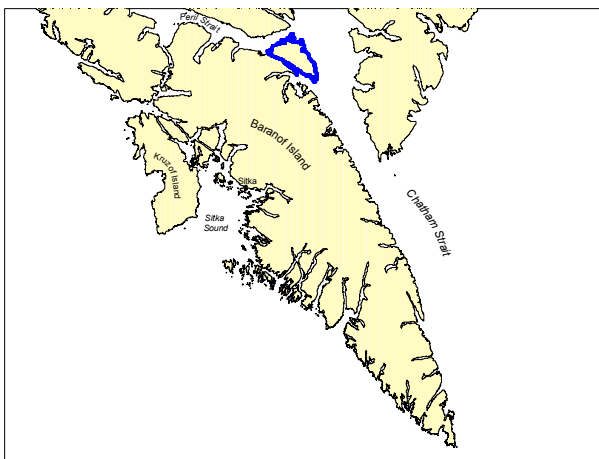
**Geo:** Borecky

**Bio:** Morris

**Nav:** Harper

**Weather:** High overcast, light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:34:30	Head of The Basin, Kelp Bay	BNF07_MM_12970
17:44:36	Crow Island	BNF07_MM_13077
17:54:15	Head of South Arm	BNF07_MM_13196
18:00:51	S entrance to Middle Arm	BNF07_MM_13268
18:07:15	Head of Middle arm	BNF07_MM_13348
18:13:02	Portage Point	BNF07_MM_13428



**SE07\_SK\_22**  
**18 June 2007**



**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-22

**General Location:** Portage Arm, Catherine Island, Peril Strait

**Date:** 18 June 2007

**Time Start:** 190044 (UTC) (110044 ADT)

**Fuel Break:** none

**Time Stop:** 195909 (UTC) (115909 ADT)

**Tape Length:** 58:25

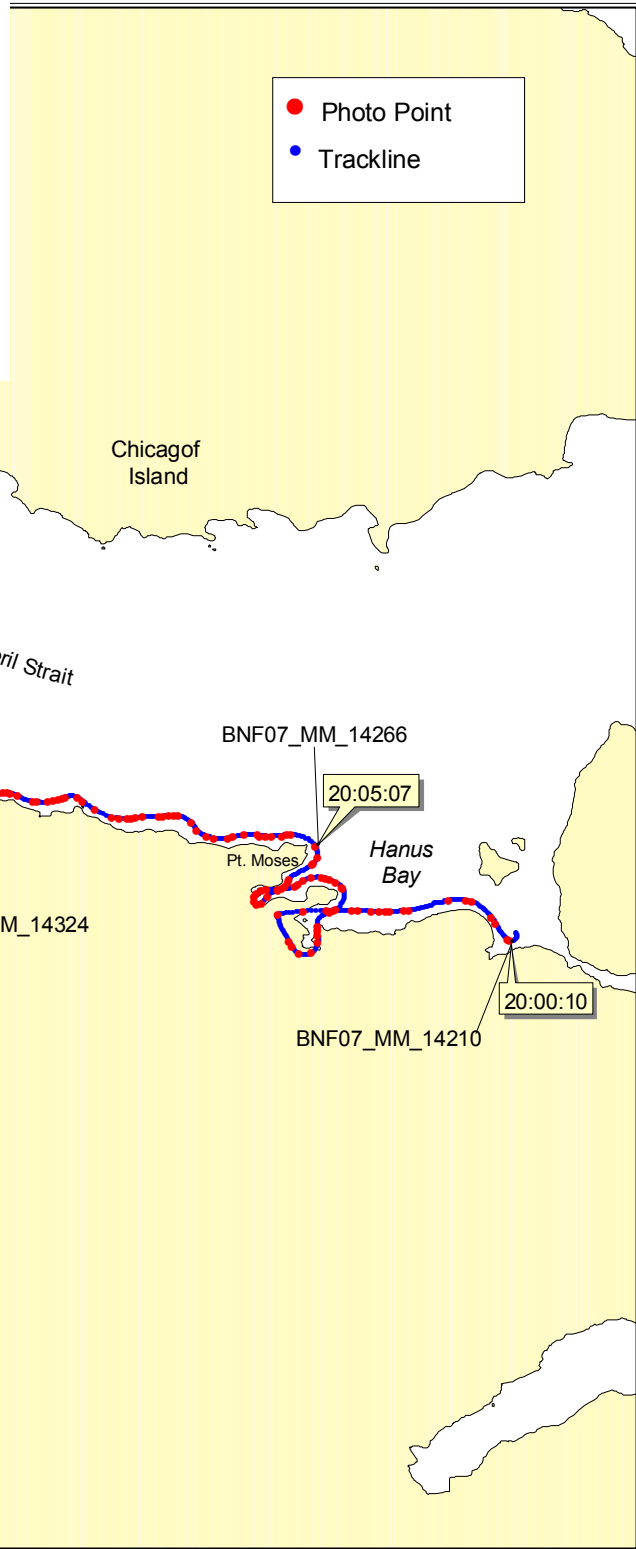
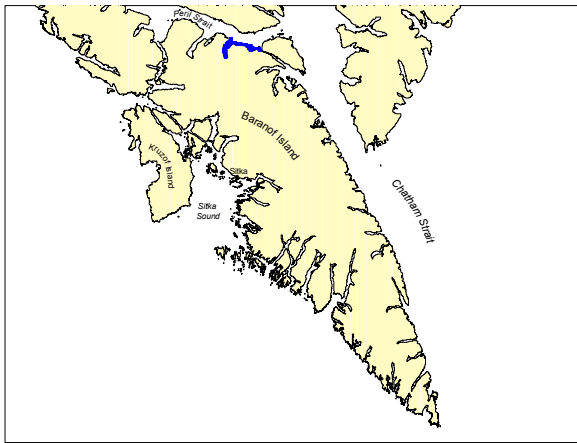
**Geo:** Harper

**Bio:** Morris

**Nav:** Borecky

**Weather:** High overcast, light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
19:01:12	S entrance, Portage Arm	BNF07_MM_13495
19:06:54	Peril Strait exit to Portage Arm (Hanus Bay)	BNF07_MM_13556
19:18:52	Entrance to Echo Cove (Catherine Island)	BNF07_MM_13707
19:32:41	Thatcher Point, Catherine Island	BNF07_MM_13882
19:40:23	Thatcher Islands, Peril Strait	BNF07_MM_13976
19:54:10	Hanus Bay, Catherine Island	BNF07_MM_14137



**SE07\_SK\_23**  
**18 June 2007**

**2007 Baranof Island Aerial Video Imaging Survey  
Sitka (SK)**

**Tape Number:** SK-23

**General Location:** Peril Strait, Hanus Bay, Saook Bay

**Date:** 18 June 2007

**Time Start:** 195958 (UTC) (115958 ADT)

**Fuel Break:** none

**Time Stop:** 201738 (UTC) (121738 ADT)

**Tape Length:** 17:38

**Geo:** Harper

**Bio:** Morris

**Nav:** Borecky

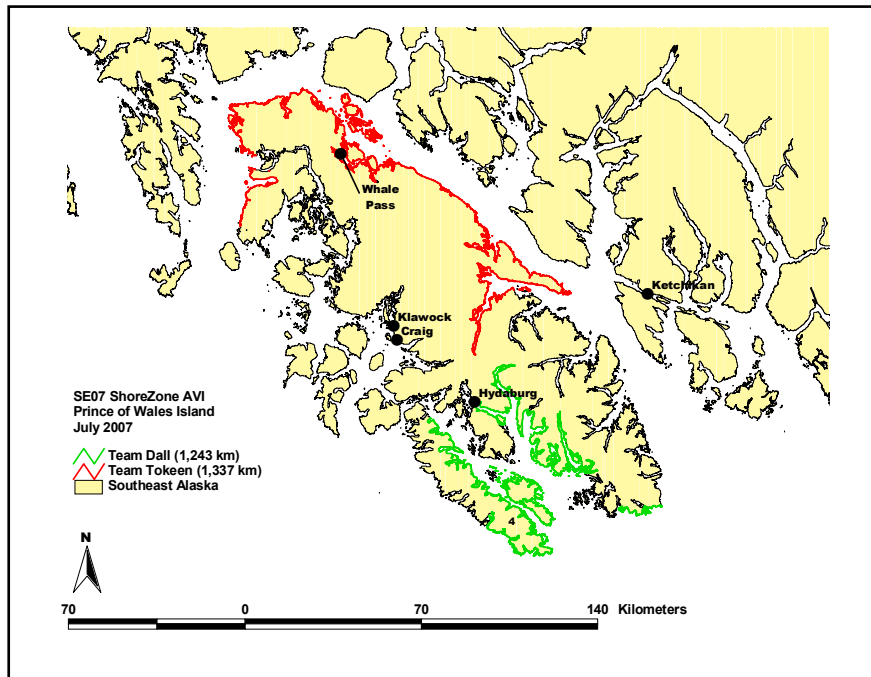
**Weather:** High overcast, light winds.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
20:00:10	Hanus Bay/Portage Inlet	BNF07_MM_14210
20:05:07	Pt. Moses	BNF07_MM_14268
20:09:08	E entrance to Saook Bay	BNF07_MM_14324
20:13:01	Head of Saook Bay	BNF07_MM_14363
20:17:38	Saook Point, Peril Strait	BNF07_MM_14426

Note: Trackline in NW portion of Saook Bay requires interpolation due to terrain shadowing.



**FLIGHT REPORT**  
**ShoreZone Aerial Video Imaging (AVI) Survey**  
**Prince of Wales Island, SE Alaska**  
**July 12-17, 2007**  
**Team Tokeen (TK)**  
**Team Dall (DL)**



Prepared for  
The Nature Conservancy  
and  
NOAA National Marine Fisheries Service  
by



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**ShoreZone** is a coastal habitat mapping and classification system in which georeferenced aerial imagery is collected specifically for the interpretation and integration of geological and biological features of the intertidal zone and nearshore environment. Oblique low-altitude aerial video and digital still imagery of the coastal zone is collected during summer low tides (zero tide level or lower), usually from a helicopter flying at <100 m altitude. The flight trackline is recorded at 1-second intervals using Fugawi electronic navigation software and is continuously monitored in-flight to ensure all shorelines have been imaged. Video and still imagery collected are georeferenced and time-synchronized. Video imagery is accompanied by continuous, simultaneous commentary by a geologist and a biologist aboard the aircraft. The imagery and commentary are later used in the definition of discrete along-shore coastal habitat units and the “mapping” of observed physical, geomorphic, sedimentary, and biological features in those units.

The purpose of this flight report is to summarize the field activities of the ShoreZone aerial video imaging (AVI) survey conducted on **Prince of Wales Island (Southeast Alaska)** during the low-tide window of **July 12-17, 2007**. The survey was conducted by Coastal & Ocean Resources Inc. (CORI, Sidney, British Columbia) under contract with The Nature Conservancy (TNC, Juneau, Alaska). A coastal ecologist from Archipelago Marine Research Ltd. (AMR, Victoria, British Columbia) was sub-contracted by CORI to provide biological expertise. Table 1 provides a summary of crew affiliations and responsibilities.

The length of shoreline imaged during the two-team survey and delivered with this report is **2,580 km**. The tables and figures on the following pages summarize, by video tape number, the extent and location of the AVI data and imagery collected by each team. Both teams utilized Bell 206 Jet Ranger helicopters chartered from Coastal Helicopters in Juneau, Alaska.

Imagery collected from the helicopter was flown looking onshore out of the left side of the aircraft with the door removed.. Maps for each tape are annotated with representative geographic names, trackline times (in hh:mm:ss UTC in 24-hour clock time), and photo numbers. The six-digit UTC time is imprinted on the video imagery that is provided on DVD with this report. The shapefiles and GIS data that accompany this report on CD illustrate the flight trackline positions at 1-second intervals (displayed by tape number), as well as the digitized shoreline segments flown. Within each survey team, data and imagery are linked by a date time code (yyyymmddhhmmss).

Table 1. Prince of Wales Island (July 12-17, 2007) survey teams and flight report contents.

<b>Team</b>	<b>Base</b>	<b>Tapes</b>	<b>Pages</b>
Token (TK)	M/V <i>Georgia Lee</i>	SE07_TK01 to SE07_TK20	3 - 44
Dall (DL)	Craig	SE07_DL01 to SE07_DL16	45 - 77
Sample Photos			78 - 81

Table 2. ShoreZone AVI Flight Personnel and Responsibilities (Team Token - TK).

<b>Crew Member</b>	<b>Individual / Affiliation</b>	<b>Responsibilities</b>
<i>Geomorphologist</i>	Jodi Harney CORI, Sidney BC	survey coordination, videography, geologic commentary, post-flight data processing, project reporting
<i>Coastal Ecologist</i>	Mary Morris AMR, Victoria BC	digital photography, biologic commentary
<i>Navigator</i>	Sean Daley CORI, Sidney BC	in-flight navigation, post-flight data processing
<i>Pilot</i>	Lewis Hart Coastal Helicopters Juneau, Alaska	Jet Ranger helicopter piloting

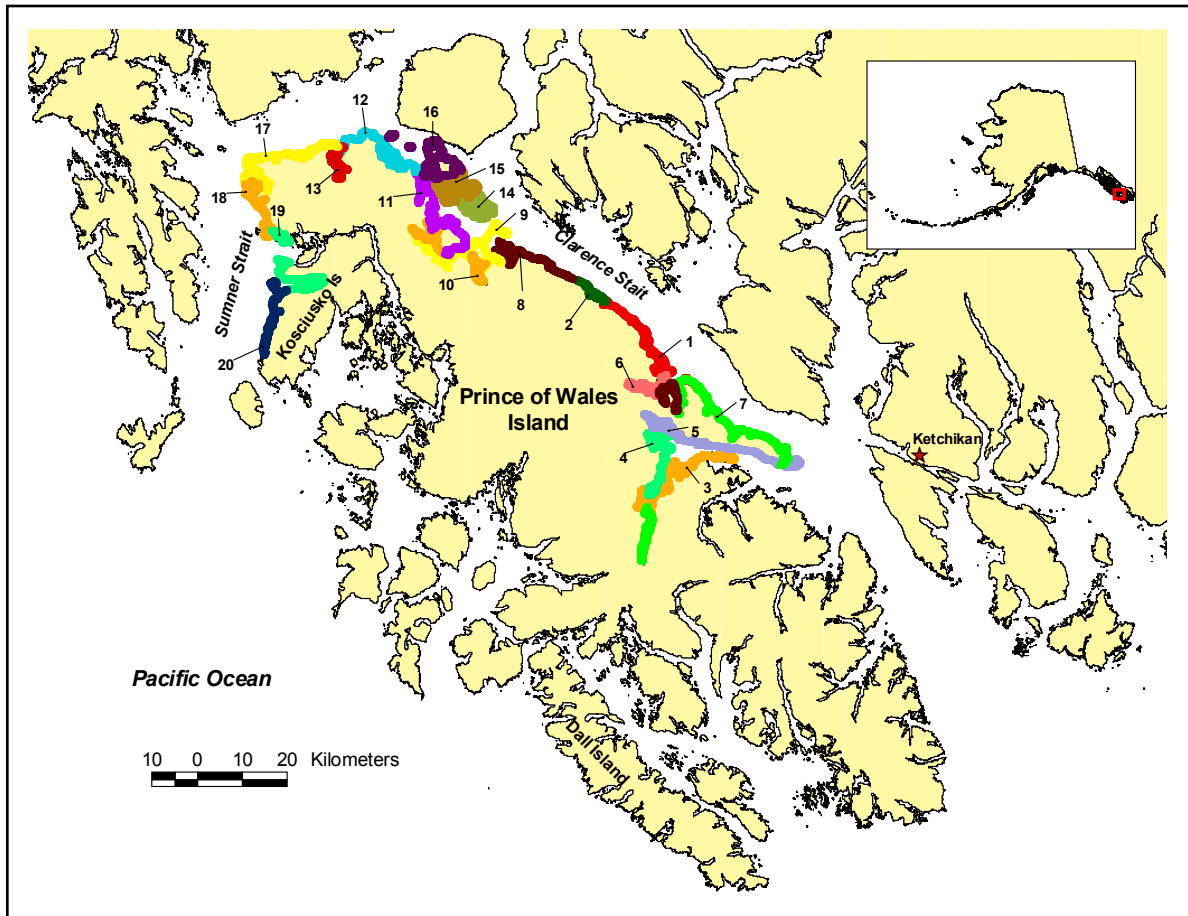
Table 3. ShoreZone AVI Flight Personnel and Responsibilities (Team Dall - DL).

<b>Crew Member</b>	<b>Individual / Affiliation</b>	<b>Responsibilities</b>
<i>Geomorphologist</i>	Neil Borecky CORI, Sidney BC	survey coordination, videography, geologic commentary, post-flight data processing, project reporting
<i>Coastal Ecologist</i>	Heather Anderson AMR, Victoria BC	digital photography, biologic commentary
<i>Navigator</i>	Kalen Morrow CORI, Sidney BC	in-flight navigation, post-flight data processing
<i>Pilot</i>	Bill Snider Coastal Helicopters Juneau, Alaska	Jet Ranger helicopter piloting

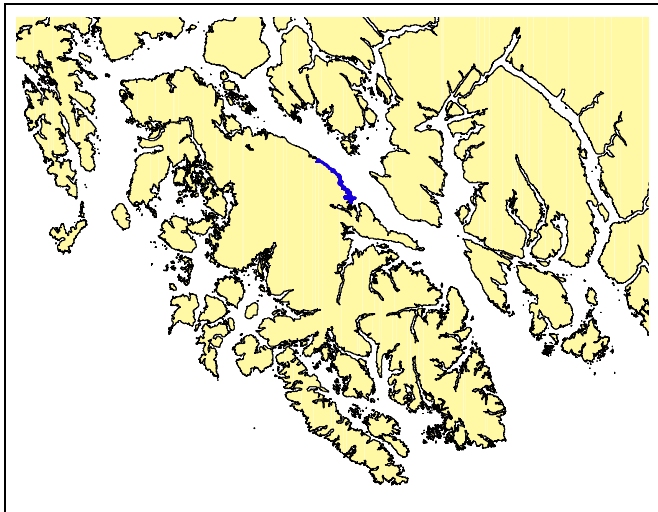
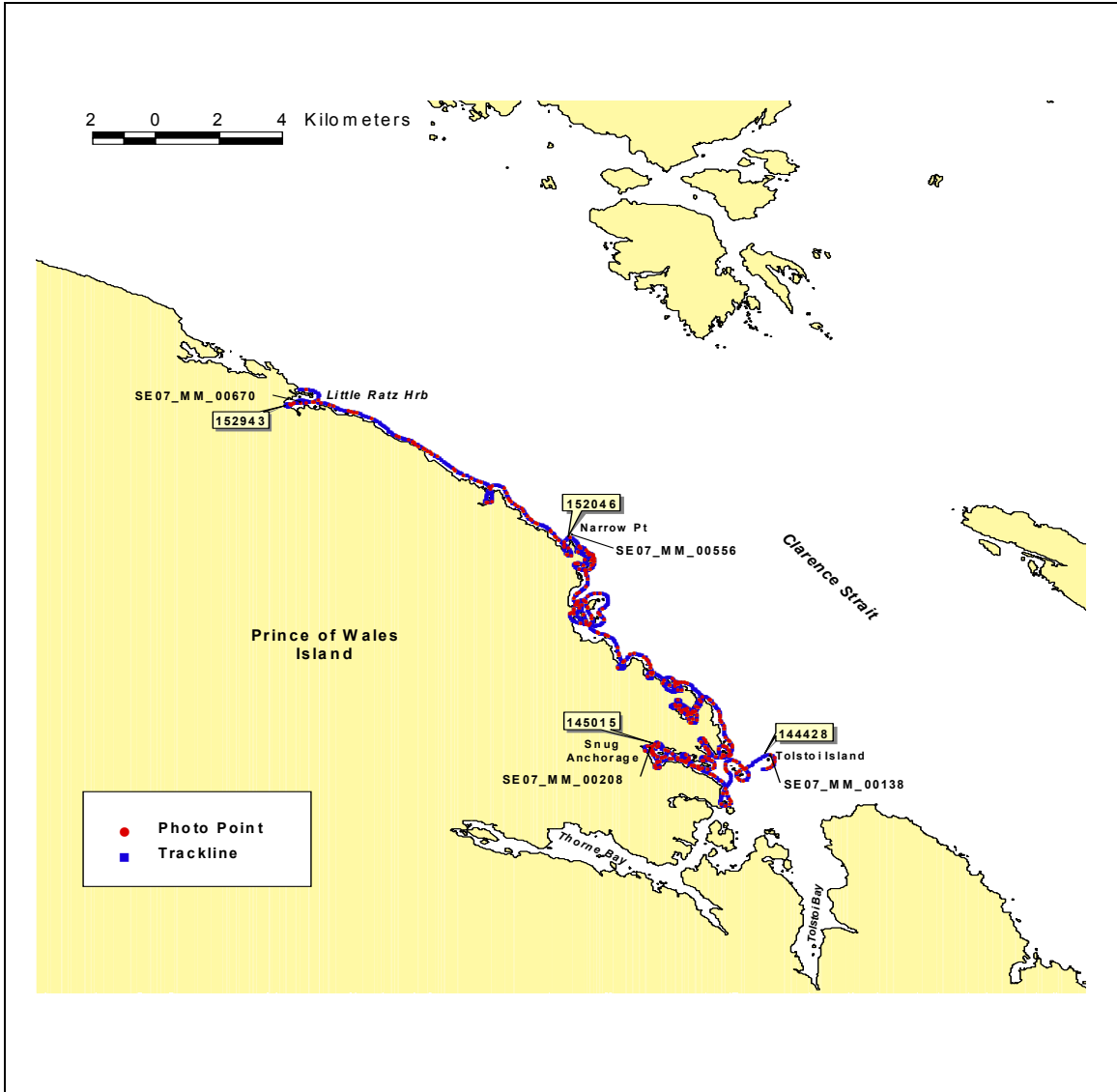


**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Token (TK)**  
Survey Maps and Tape Logs  
DVDs: SE07\_TK01 to SE07\_TK20



Flight trackline map showing the location and extent of specific videotapes (DVDs) for the July 12-17, 2007 **Team Token** survey of North Prince of Wales Island in Southeast Alaska.



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_01

**General Location:** Tolstoi Island to Little Ratz Harbor, East Prince of Wales Island

**Date:** 12 July 2007

**Time Start:** 143434 (UTC) (0634 ADT)

**Fuel Break:** Salt Chuck drums (after tide)

**Time Stop:** 153047 (UTC) (0730 ADT)

**Tape Length:** 52:24

**Geo:** Harney

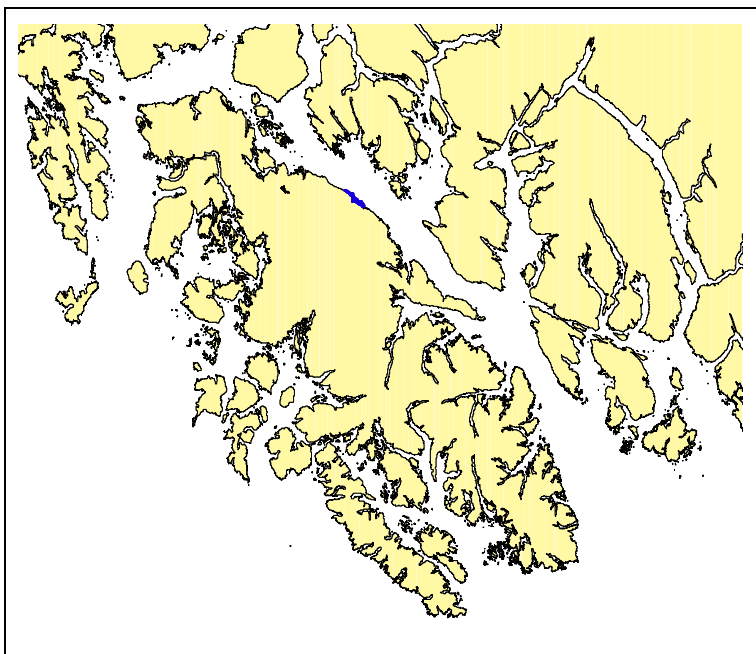
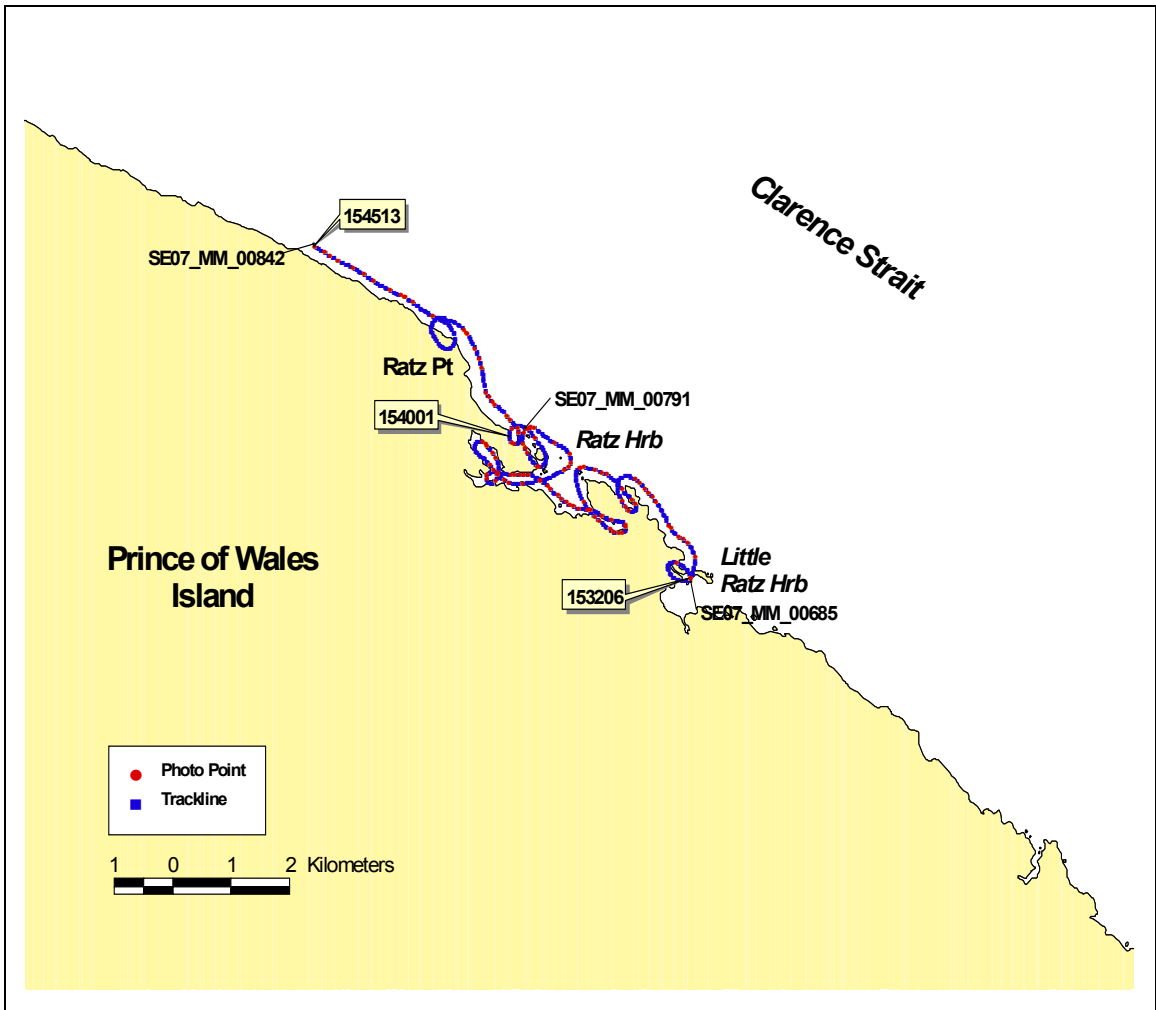
**Bio:** Morris

**Nav:** Daley

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
	Break 143904 to 143921 due to fog	
	Break 143955 to 144129 due to fog	
144131	Start of tape: patchy fog; entrance Tolstoi Bay	SE07_MM_00123
	Break 144204 to 144356 due to fog	
144428	Tolstoi Island	SE07_MM_00138
144543	Islets off Thorne Head	SE07_MM_00151
145015	Snugg Anchorage	SE07_MM_00208
150328	Forss Cove	SE07_MM_00377
152046	Narrow Point	SE07_MM_00556
152943	End of tape: Little Ratz Harbor	SE07_MM_00670

Fog gaps this day filled in on 13 and 14 July.



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_02

**General Location:** Ratz Harbor, East Prince of Wales Island

**Date:** 12 July 2007

**Time Start:** 153126 (UTC) (0731 ADT)

**Fuel Break:** Salt Chuck drums (after tide)

**Time Stop:** 154514 (UTC) (0745 ADT)

**Tape Length:** 13:48

**Geo:** Harney

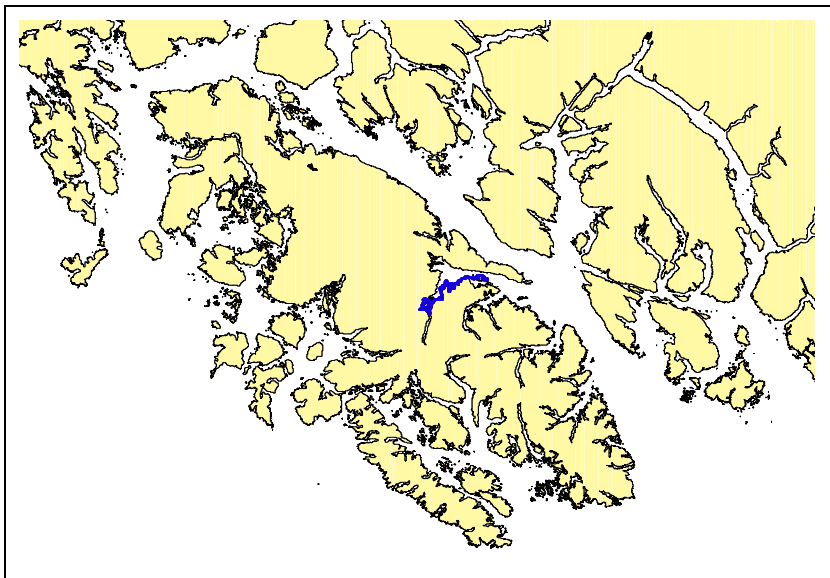
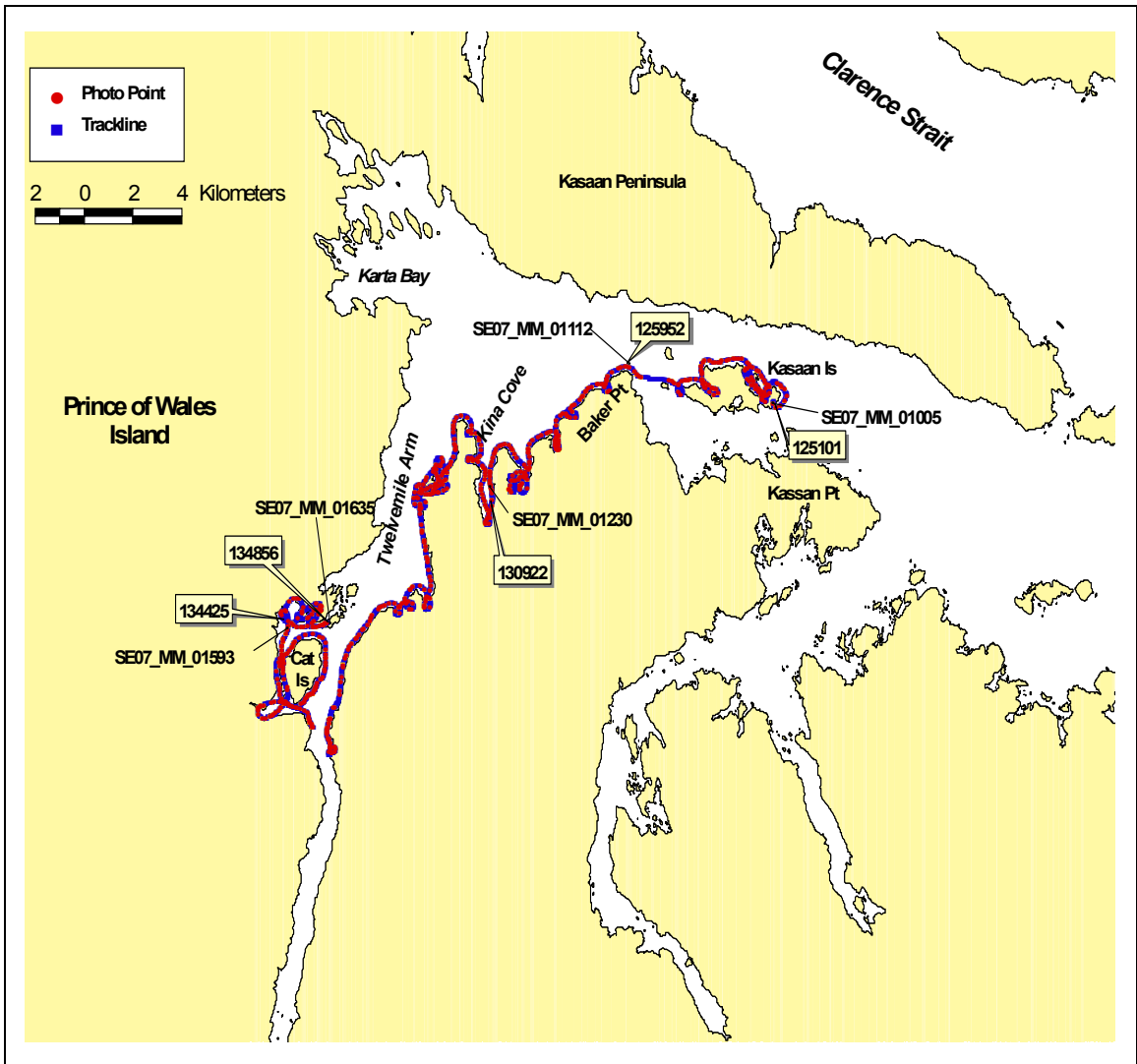
**Bio:** Morris

**Nav:** Daley

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
153206	Start of tape: north end Little Ratz Harbor	SE07_MM_00685
153528	Ratz Harbor, south end	SE07_MM_00728
154001	Ratz Harbor, north end (looking south)	SE07_MM_00791
154513	End of tape: north of Ratz Pt.	SE07_MM_00842

Grounded due to fog from 0430-0600 ADT



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_03

**General Location:** Kasaan Island to Hollis (Kasaan Bay)

**Date:** 13 July 2007

**Time Start:** 125101 (UTC) (0451 ADT)

**Fuel Break:** none

**Time Stop:** 134858 (UTC) (0548 ADT)

**Tape Length:** 53:41

**Geo:** Harney

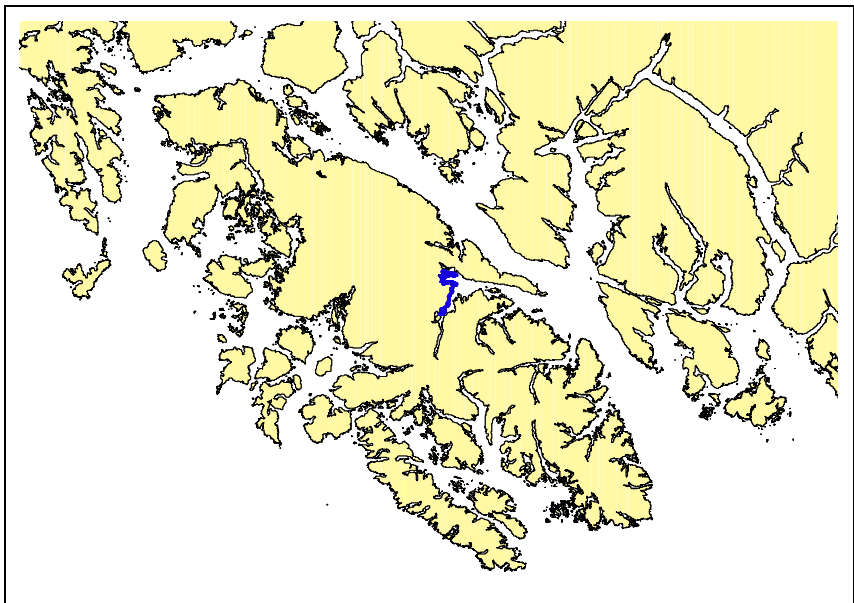
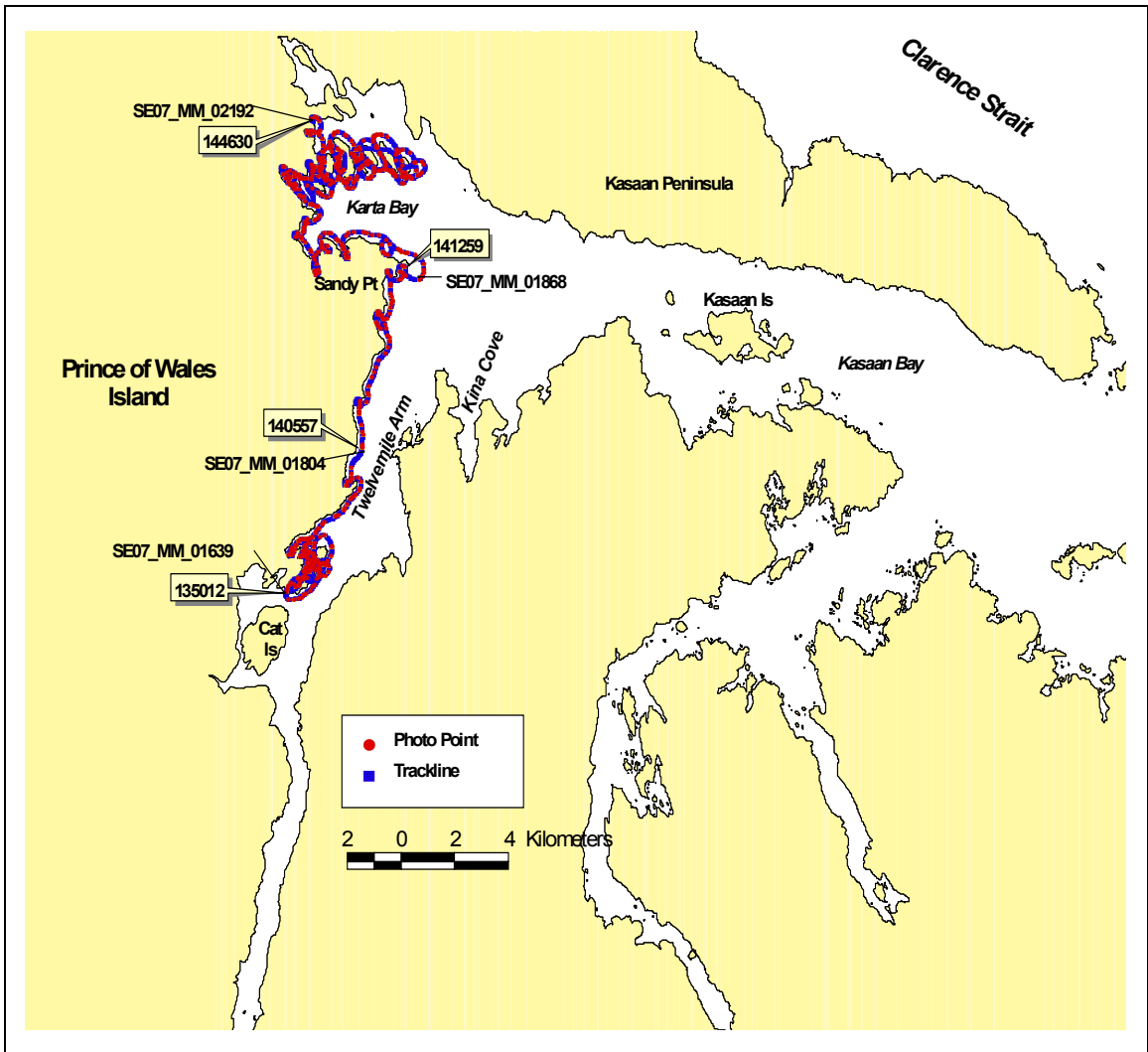
**Bio:** Morris

**Nav:** Daley

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
125101	Start of tape: north Kasaan Island	SE07_MM_01005
125952	Baker Point, Kasaan Bay	SE07_MM_01112
130635	Coal Bay	SE07_MM_01201
130922	Kina Cove	SE07_MM_01230
131359	Outer Point, Kasaan Bay	SE07_MM_01284
	Break 133049 to 133503; transit due to fog	
134425	Estuary near Hollis	SE07_MM_01593
134856	End of tape: near Hollis	SE07_MM_01635

Fog gap in Twelvemile Arm filled on 14 July.





**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_04

**General Location:** Hollis to Karta Bay (Kasaan Bay)

**Date:** 13 July 2007

**Time Start:** 135000 (UTC) (0550 ADT)

**Fuel Break:** none

**Time Stop:** 144636 (UTC) (0646 ADT)

**Tape Length:** 56:36

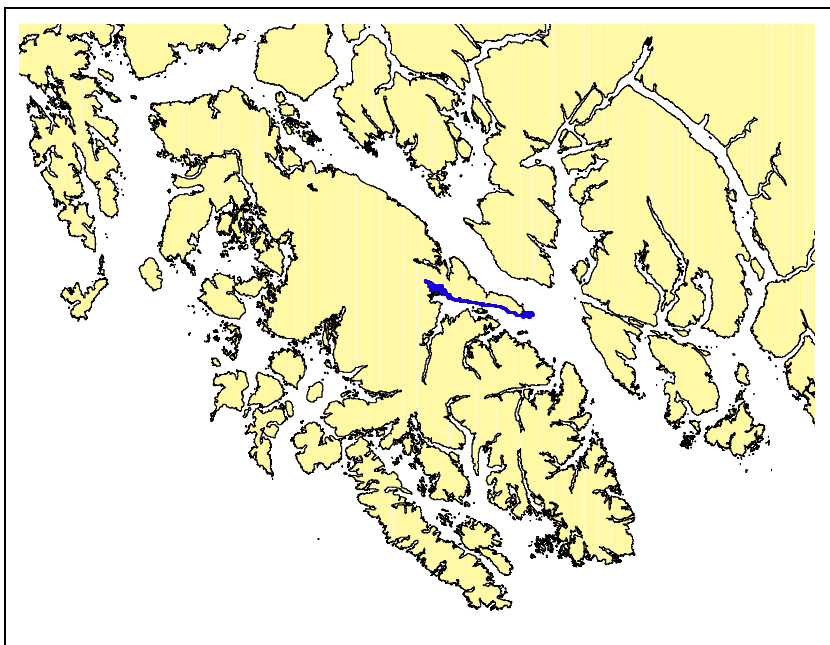
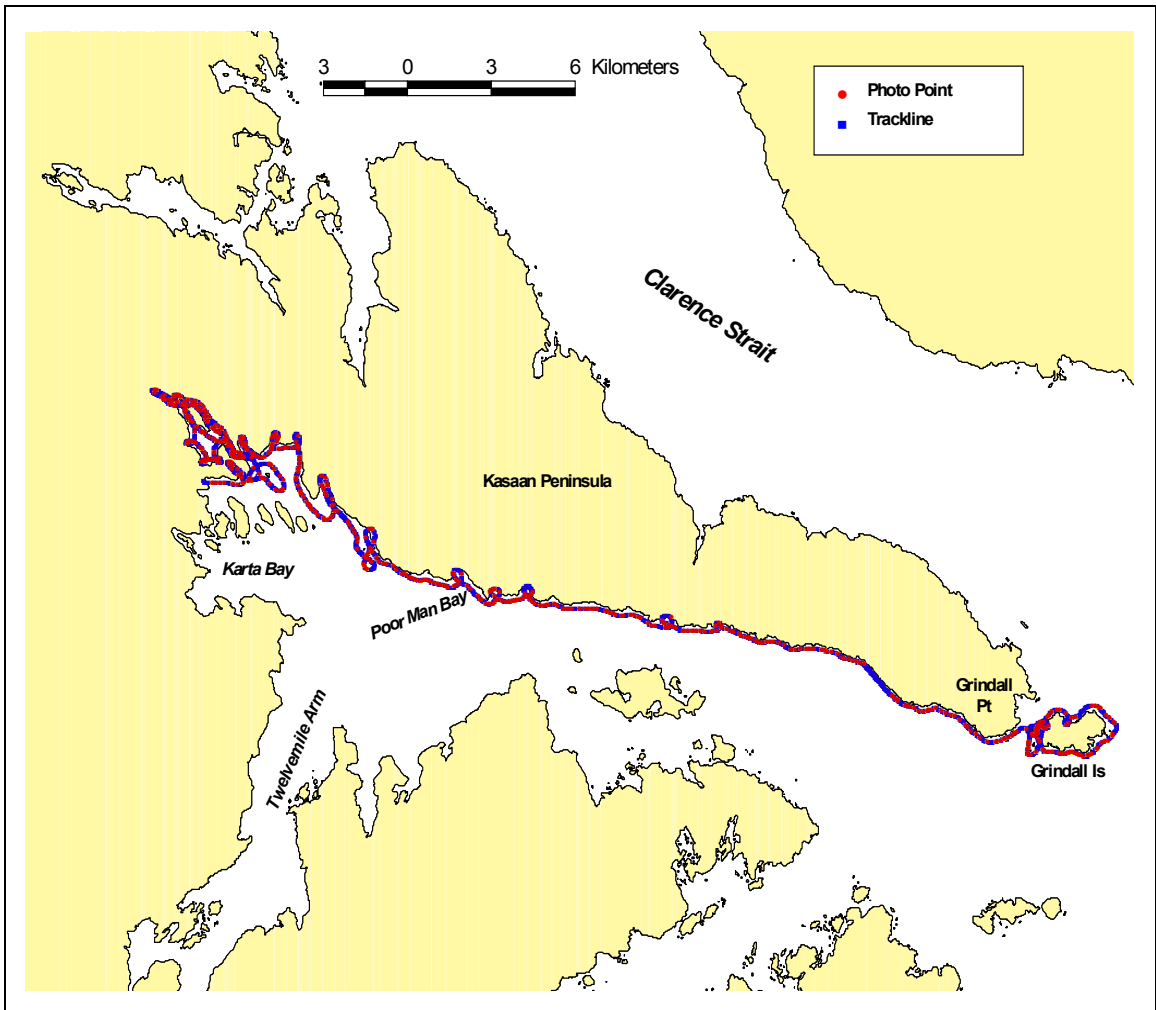
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
135012	Start of tape: Hollis	SE07_MM_01639
140557	North Twelvemile Arm	SE07_MM_01804
141259	Sandy Point, Karta Bay	SE07_MM_01868
141621	Sand cobble ripples, Karta Bay	SE07_MM_01904
142034	Mound Point, Karta Bay	SE07_MM_01947
143436	Fish trap, Karta Bay	SE07_MM_02074
143818	Sand spit, Karta Bay	SE07_MM_02113
144125	Islets at entrance of Karta Bay	SE07_MM_02148
144630	End of tape: Karta Bay	SE07_MM_02192



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_05

**General Location:** Karta Bay to Grindall Island (Kasaan Bay)

**Date:** 13 July 2007

**Time Start:** 144725 (UTC) (0647 ADT)

**Fuel Break:** Salt Chuck mine, after tape 5.

**Time Stop:** 154719 (UTC) (0747 ADT)

**Tape Length:** 51:53

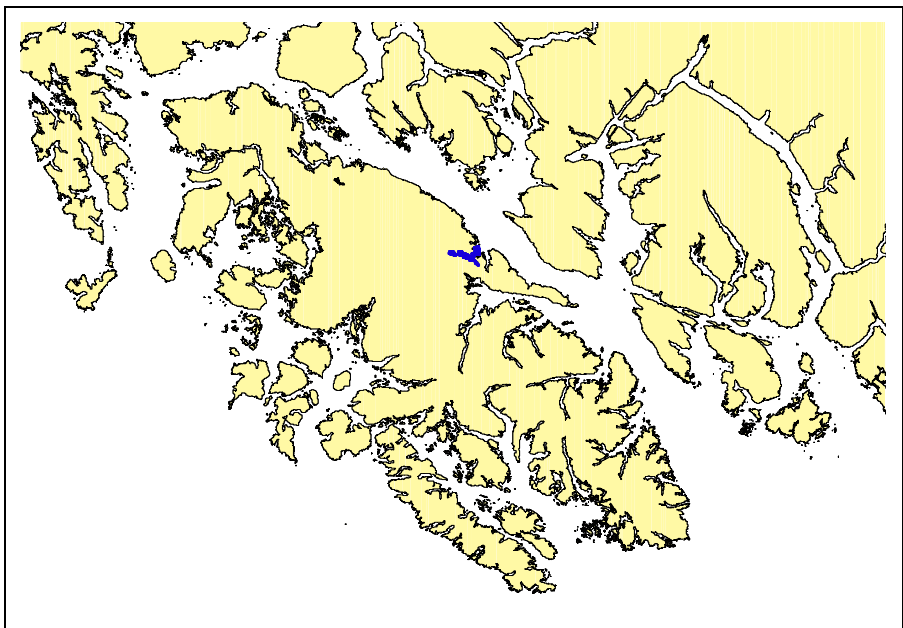
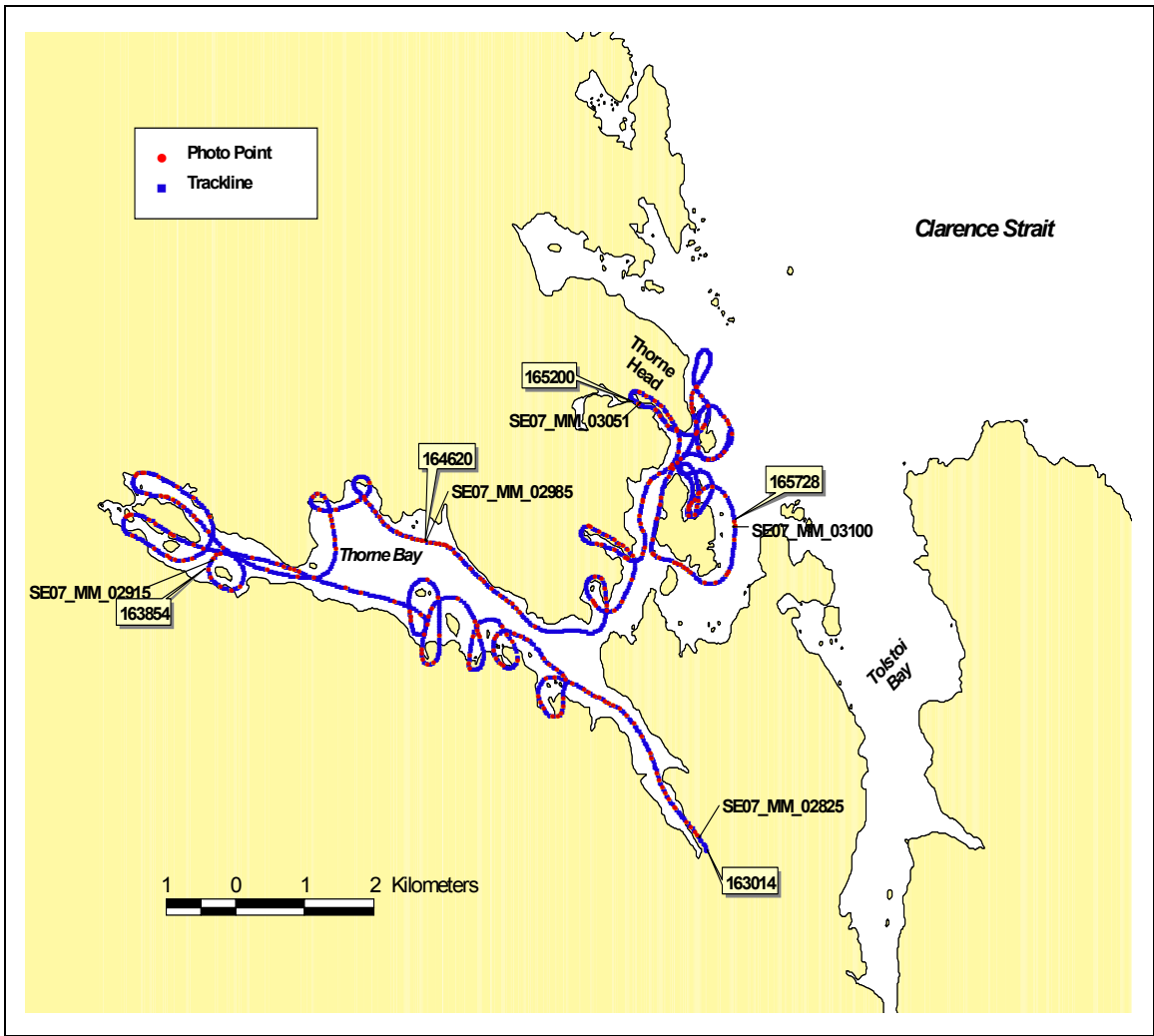
**Geo:** Harney / Daley

**Bio:** Morris

**Nav:** Daley / Harney

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
144737	Start of tape: Karta Bay	SE07_MM_02195
145937	Salt Chuck Mine site	SE07_MM_02319
	Break 145950 to 150749	
151851	Mills Bay	SE07_MM_02461
152127	Tombolo near Adams Pt.	SE07_MM_02482
152438	Poor Man Bay	SE07_MM_02521
152623	Poles and Longhouse, Kasaan	SE07_MM_02539
154126	Grindall Passage, southern Kasaan Peninsula	SE07_MM_02708
154654	End of tape: Urchin barrens, Grindall Island	SE07_MM_02777
	Transit to refuel site at Salt Chuck Mine	



**ShoreZone Aerial Video Imaging (AVI) Survey  
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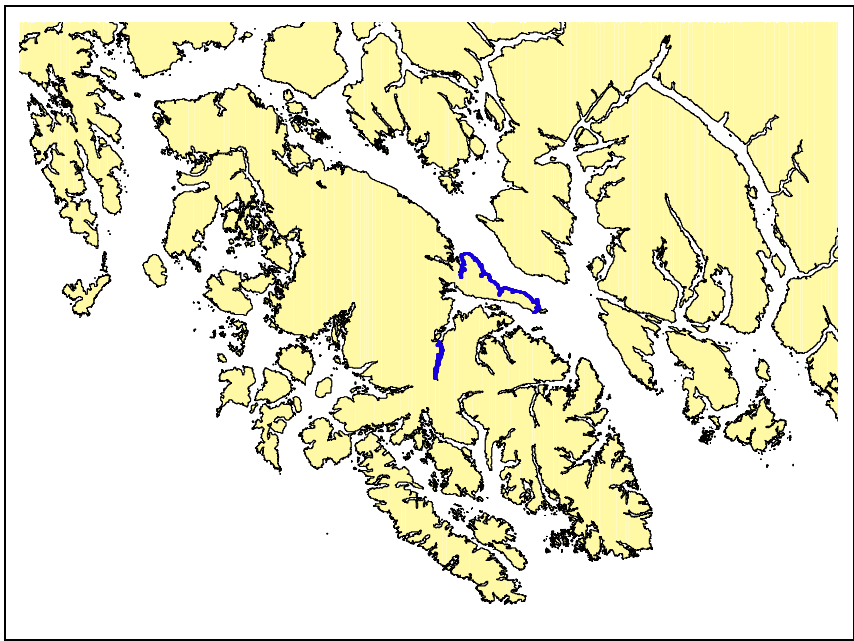
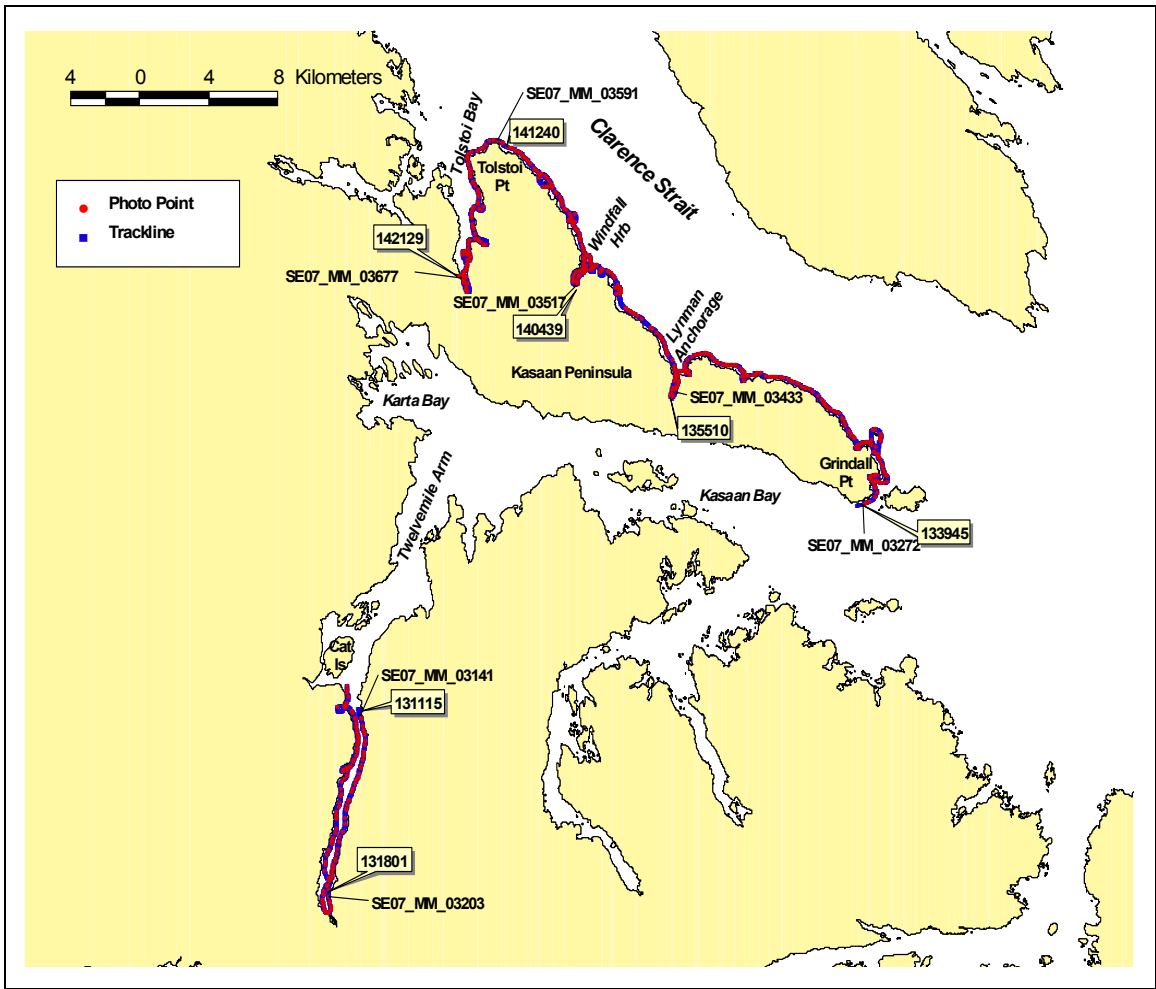
**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_06

**General Location:** Thorne Bay  
**Date:** 13 July 2007  
**Time Start:** 163005 (UTC) (0830 ADT)  
**Fuel Break:** none  
**Time Stop:** 170035 (UTC) (0900 ADT)  
**Tape Length:** 30:40  
**Geo:** Daley  
**Bio:** Morris  
**Nav:** Harney

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
163014	Start of tape: head of Thorne Bay	SE07_MM_02825
163125	Lodge, Thorne Bay	SE07_MM_02844
163854	Islet, Thorne Bay	SE07_MM_02915
164620	Thorne Bay	SE07_MM_02985
165728	Islet, Thorne Bay	SE07_MM_03100
165200	Thorne Head	SE07_MM_03051
170032	End of Tape: Thorne Head	SE07_MM_03116



**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_07

**General Location:** 12 Mile Arm; Grindall Point to Tolstoi Bay

**Date:** 14 July 2007

**Time Start:** 131110 (UTC) (0511 ADT)

**Fuel Break:** none

**Time Stop:** 142129(UTC) (0621 ADT)

**Tape Length:** 55:48

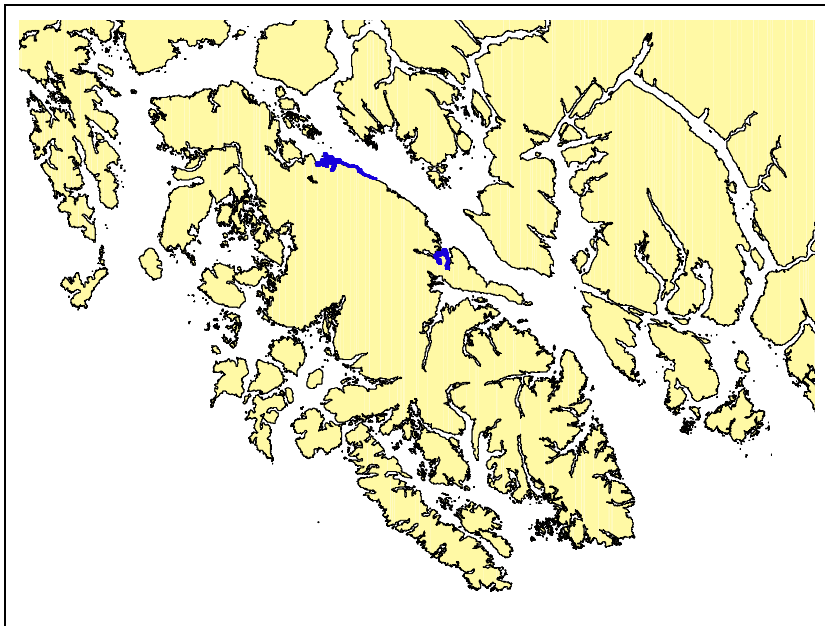
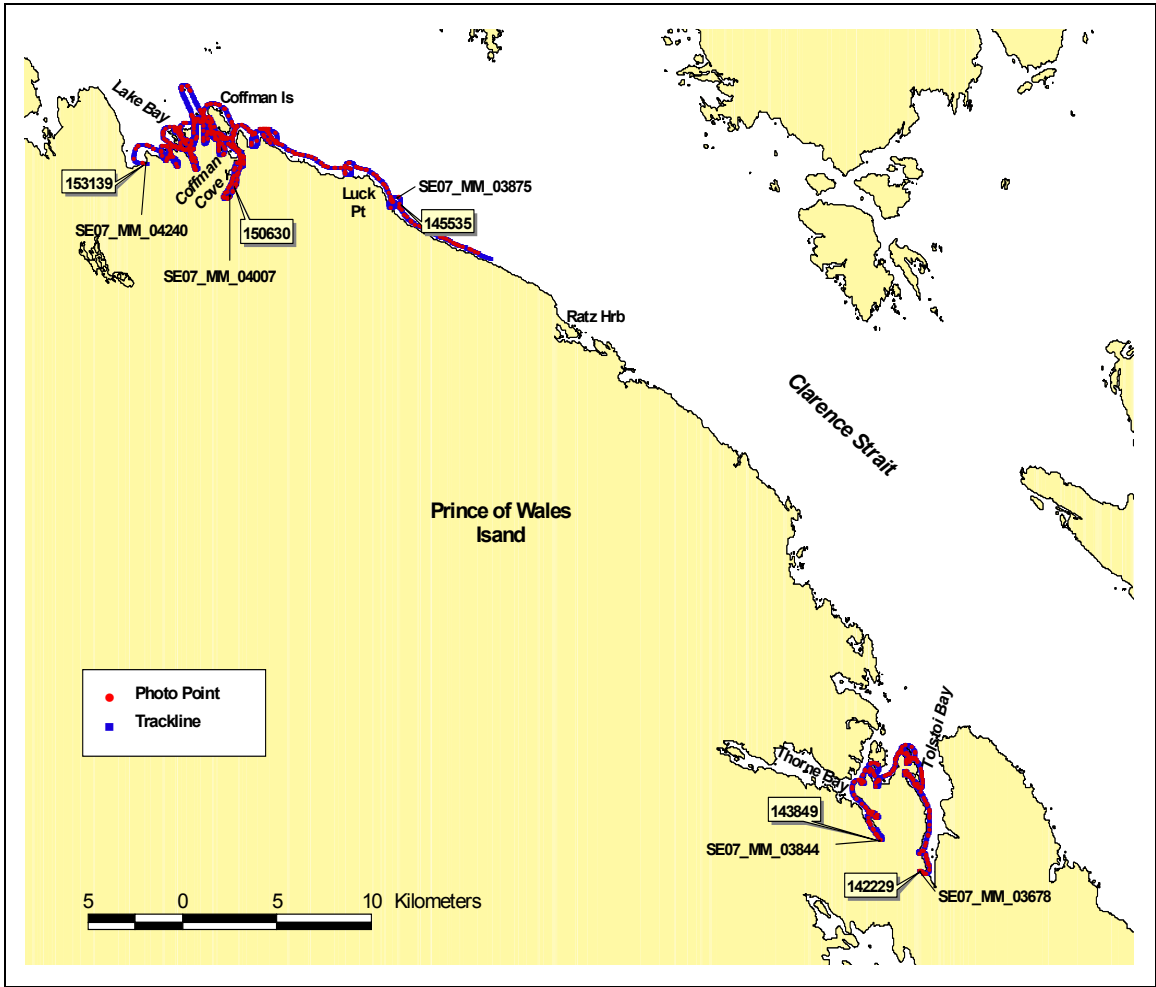
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
131115	Start of tape: Twelvemile Arm	SE07_MM_03141
131801	Head of Twelvemile Arm	SE07_MM_03203
	Break 132505 to 133934 (transit to Grindall Pt.)	
133945	Grindall Point.	SE07_MM_03272
135510	Lynman Anchorage	SE07_MM_03433
140439	Windfall Harbor	SE07_MM_03517
141240	Tolstoi Point	SE07_MM_03591
142129	End of tape: Tolstoi Bay	SE07_MM_03677





**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_08

**General Location:** Tolstoi to Thorne Bay; Luck Pt. to Coffman Cove

**Date:** **14 July 2007**

**Time Start:** 142229 (UTC) (0622 ADT)

**Fuel Break:** none

**Time Stop:** 153139 (UTC) (0731 ADT)

**Tape Length:** 56:05

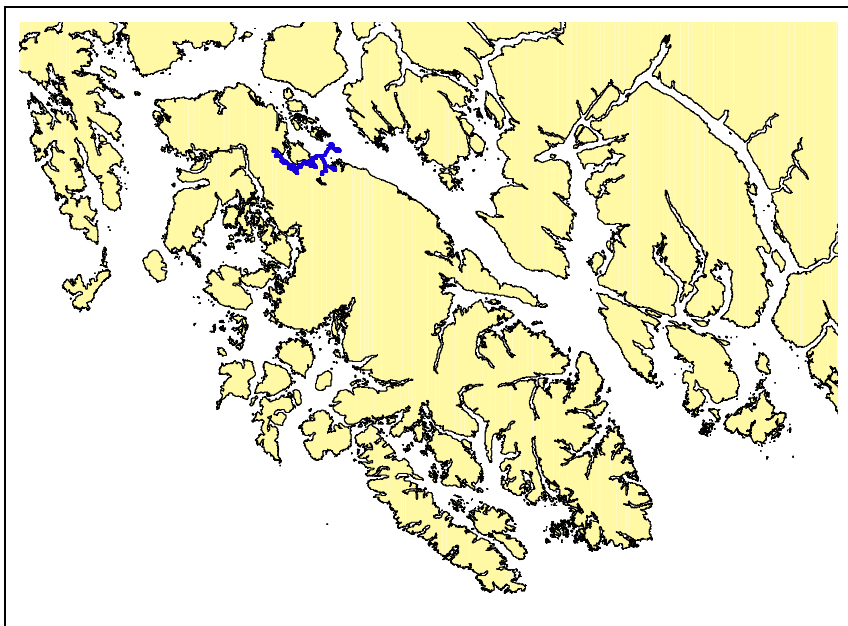
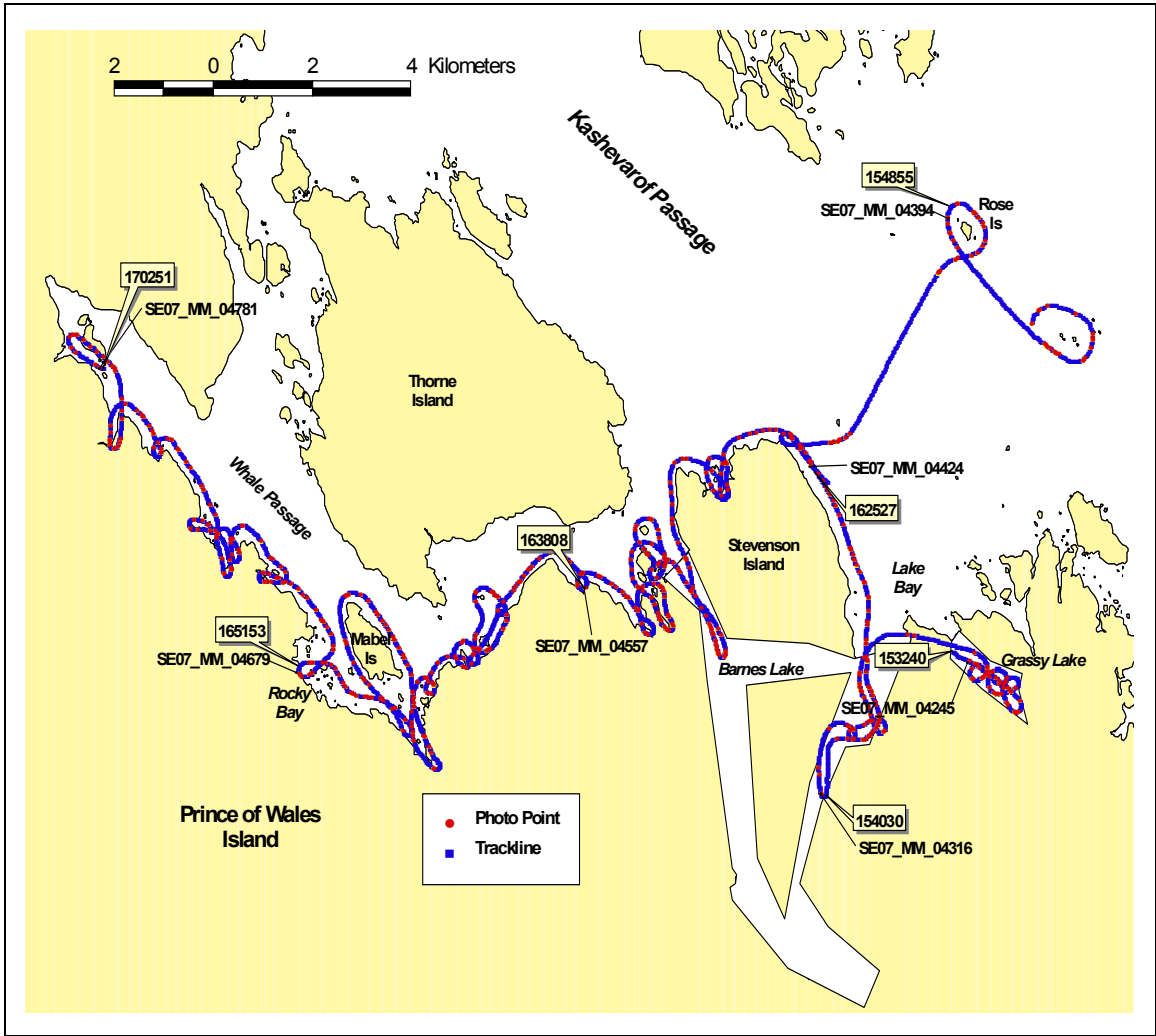
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
142229	Start of tape: Head of Tolstoi Bay	SE07_MM_03678
143849	Thorne Bay	SE07_MM_03844
	Break 143850 to 145153	
145535	Luck Point	SE07_MM_03875
150630	Coffman Cove	SE07_MM_04007
153139	End of tape: Lake Bay	SE07_MM_04240



**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_09

**General Location:** Triplets, Stevenson to Whale Pass

**Date:** 14 July 2007

**Time Start:** 153239 (UTC) (0732 ADT)

**Fuel Break:** 155207 to 162521

**Time Stop:** 170251 (UTC) (0902 ADT)

**Tape Length:** 56:56

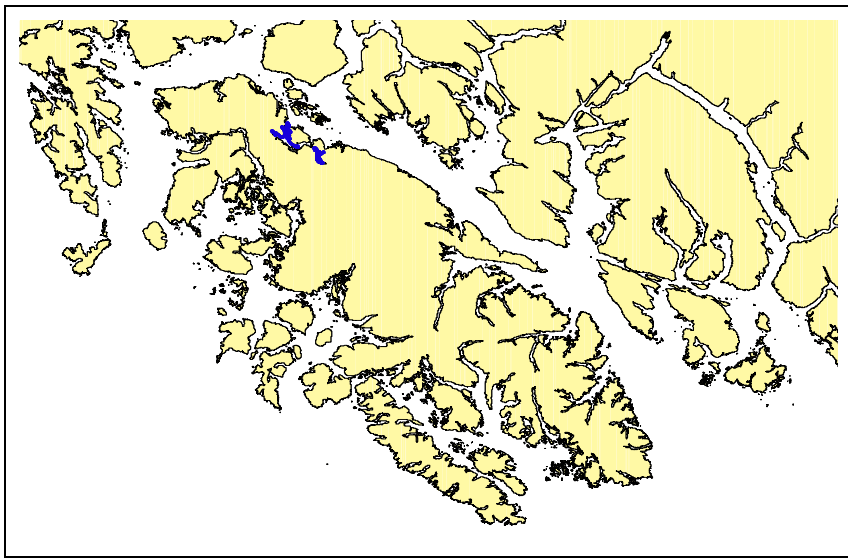
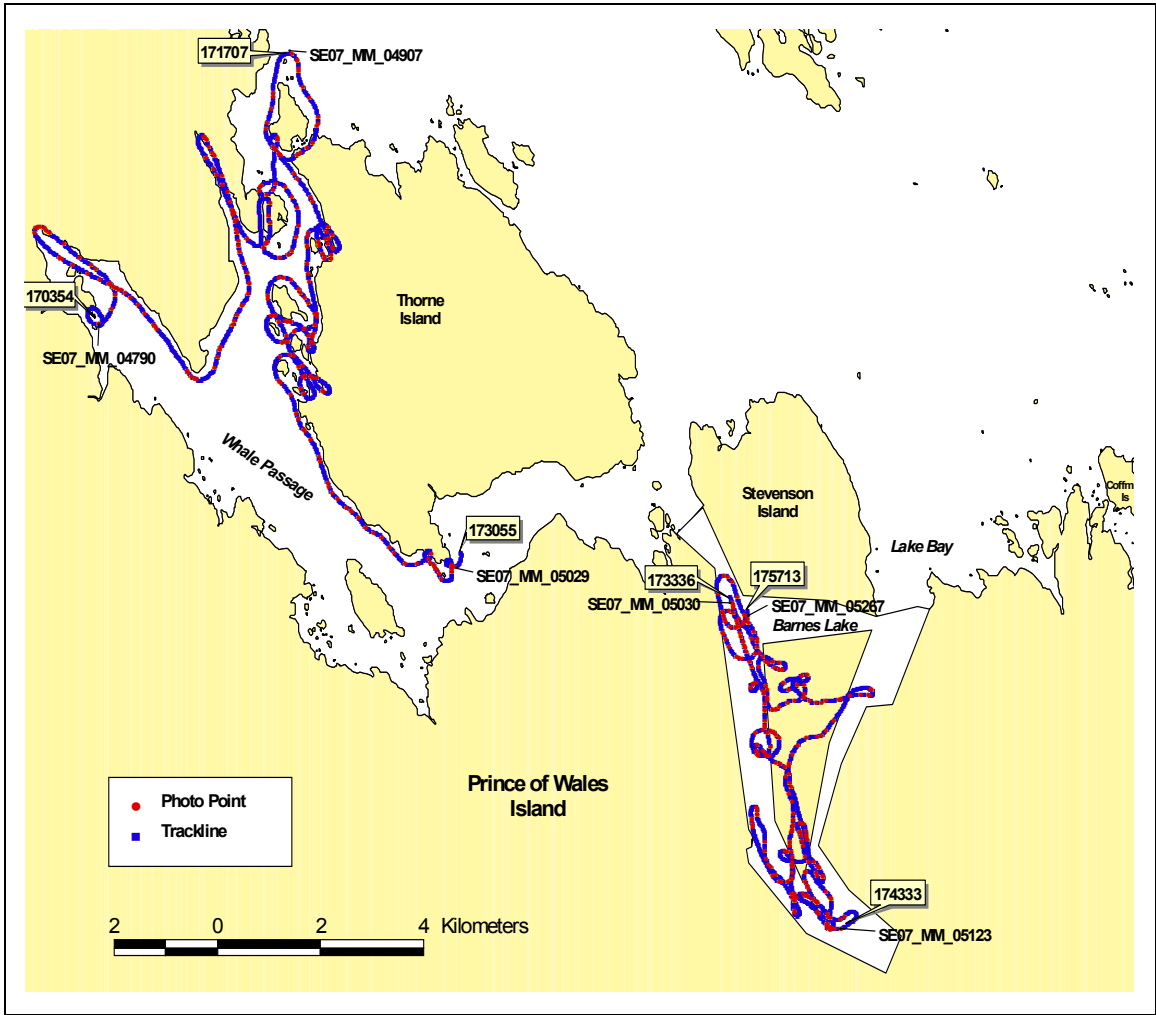
**Geo:** Harney/Daley

**Bio:** Morris

**Nav:** Daley/Harney

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
153240	Start of tape: Grassy Lake	SE07_MM_04245
154030	Barnes Lake	SE07_MM_04316
154855	Rose Island	SE07_MM_04394
	Refuel 155207 to 162521	
162527	North Stevenson Island	SE07_MM_04424
163808	Whale Passage	SE07_MM_04557
165153	Rocky Bay	SE07_MM_04679
170251	End of tape: Northwest end of Whale Pass	SE07_MM_04781



**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_10

**General Location:** N. Whale Pass to Thorne Island; Indian Creek to Barnes Lake

**Date:** **14 July 2007**

**Time Start:** 170354 (UTC) (0903 ADT)

**Fuel Break:** none

**Time Stop:** 175713 (UTC) (0957 ADT)

**Tape Length:** 50:38

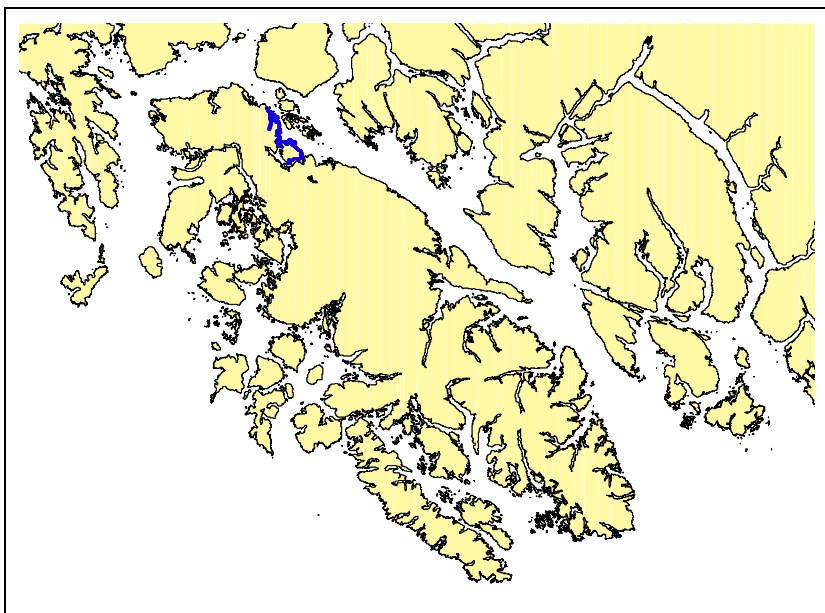
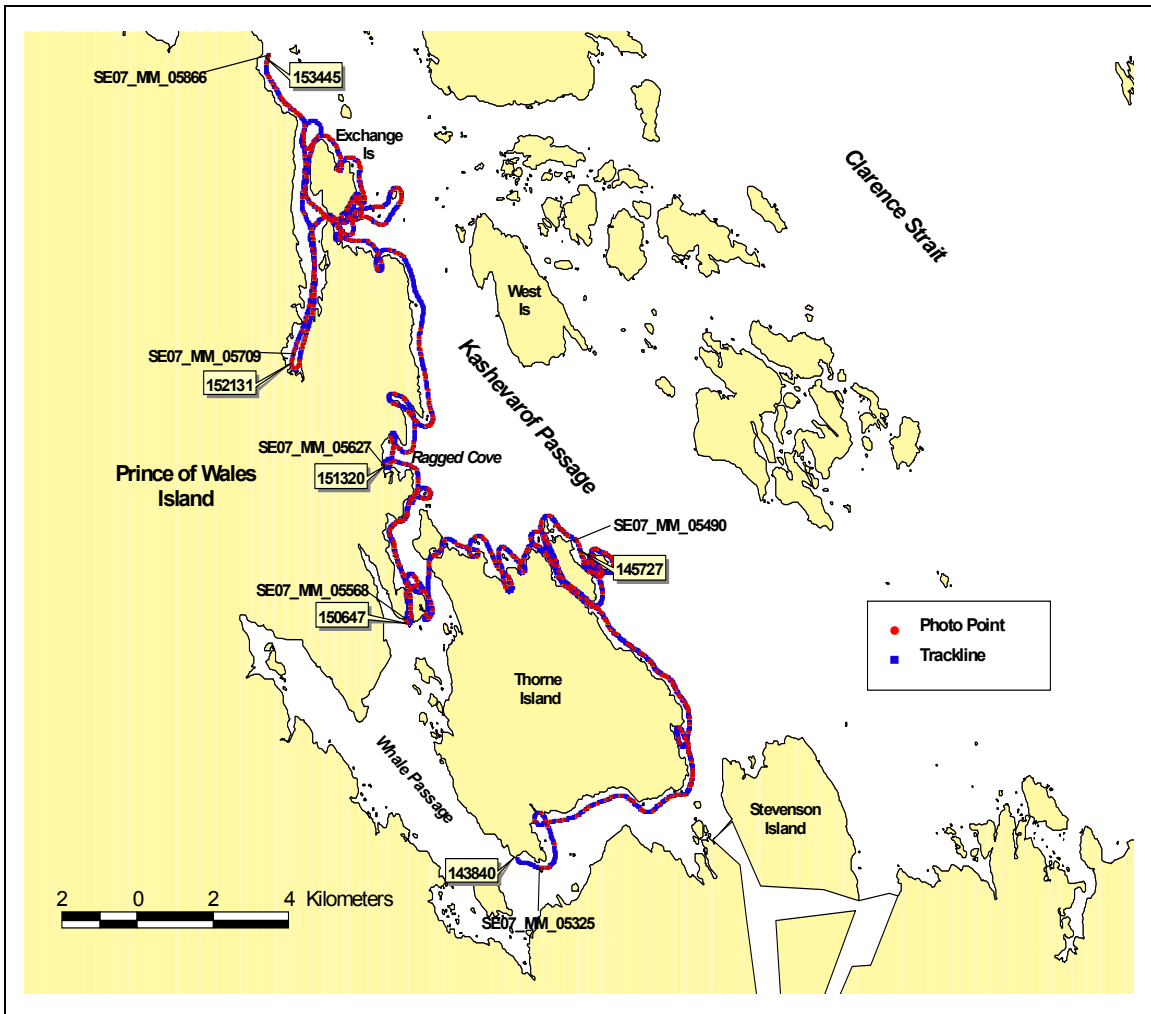
**Geo:** Daley

**Bio:** Morris

**Nav:** Harney

**Weather:** Fog in morning, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
170354	Start of tape: North Whale Pass	SE07_MM_04790
171707	North Thorne Island	SE07_MM_04907
173055	South Thorne Island	SE07_MM_05029
	Transit break 173056 to 173335	
173336	West entrance to Barnes Lake	SE07_MM_05030
174333	South Barnes Lake	SE07_MM_05123
175713	End of tape: Barnes Lake	SE07_MM_05267



**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_11

**General Location:** SW Torne Island to North POW

**Date:** **15 July 2007**

**Time Start:** 143840 (UTC) (0638 ADT)

**Fuel Break:** None

**Time Stop:** 153445 (UTC) (0734 ADT)

**Tape Length:** 56:05

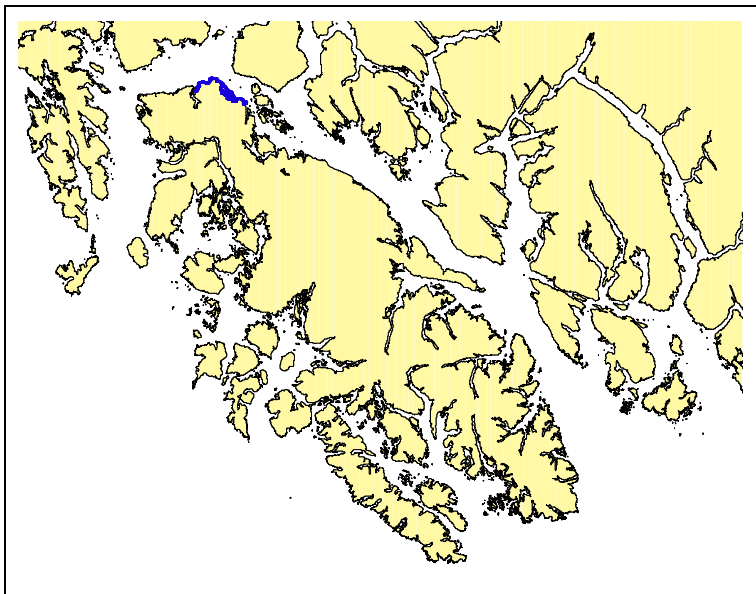
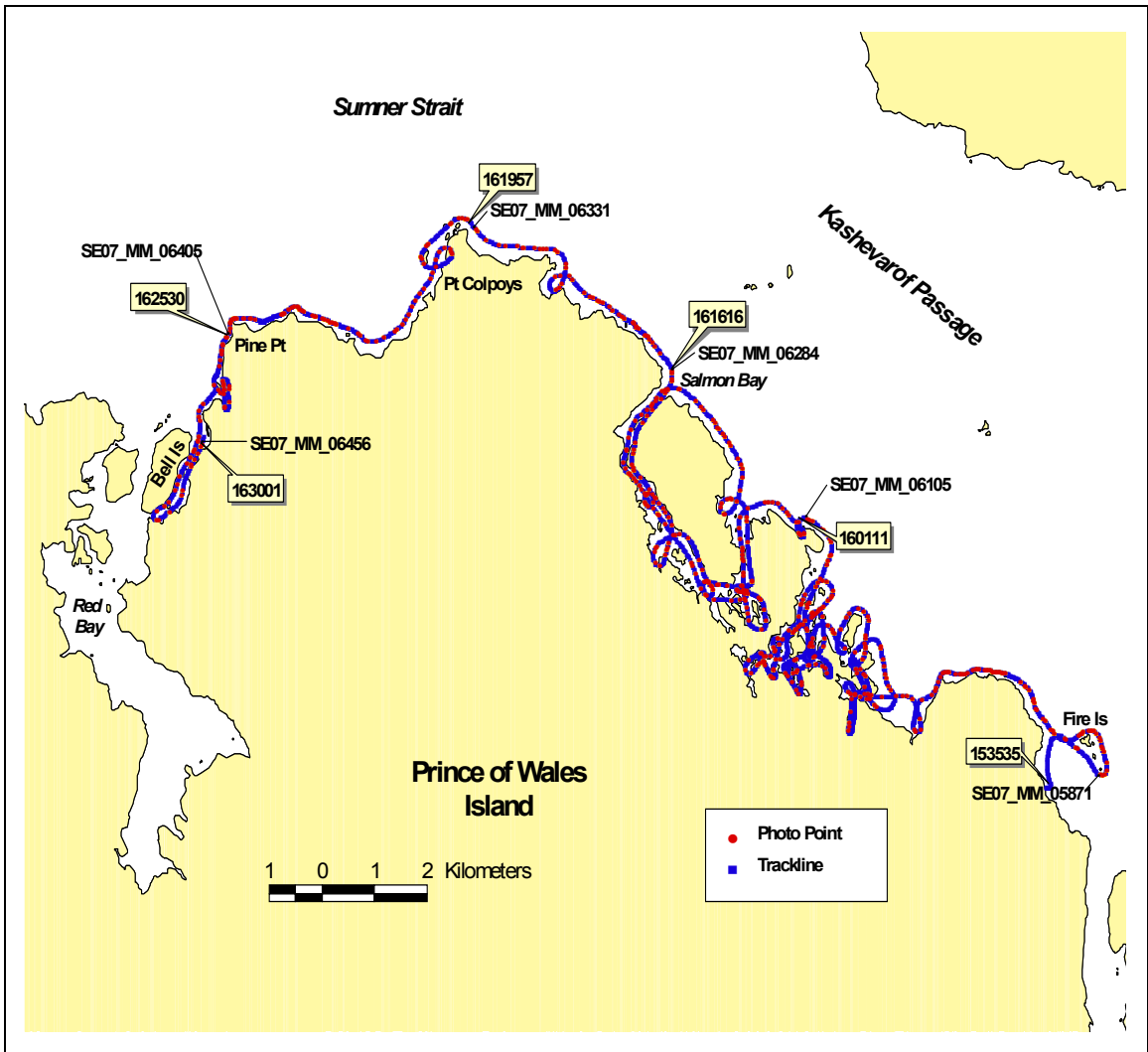
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
143840	Start of tape: SW Thorne Island	SE07_MM_05325
145727	NE Thorne Island	SE07_MM_05490
150647	North Whale Pass	SE07_MM_05568
151320	Ragged Cove	SE07_MM_05627
152131	Exchange Cove	SE07_MM_05709
153445	End of tape North POW	SE07_MM_05866





**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_12

**General Location:** North Prince of Wales

**Date:** **15 July 2007**

**Time Start:** 153535 (UTC) (0735 ADT)

**Fuel Break:** None

**Time Stop:** 163001 (UTC) (0830 ADT)

**Tape Length:** 54:26

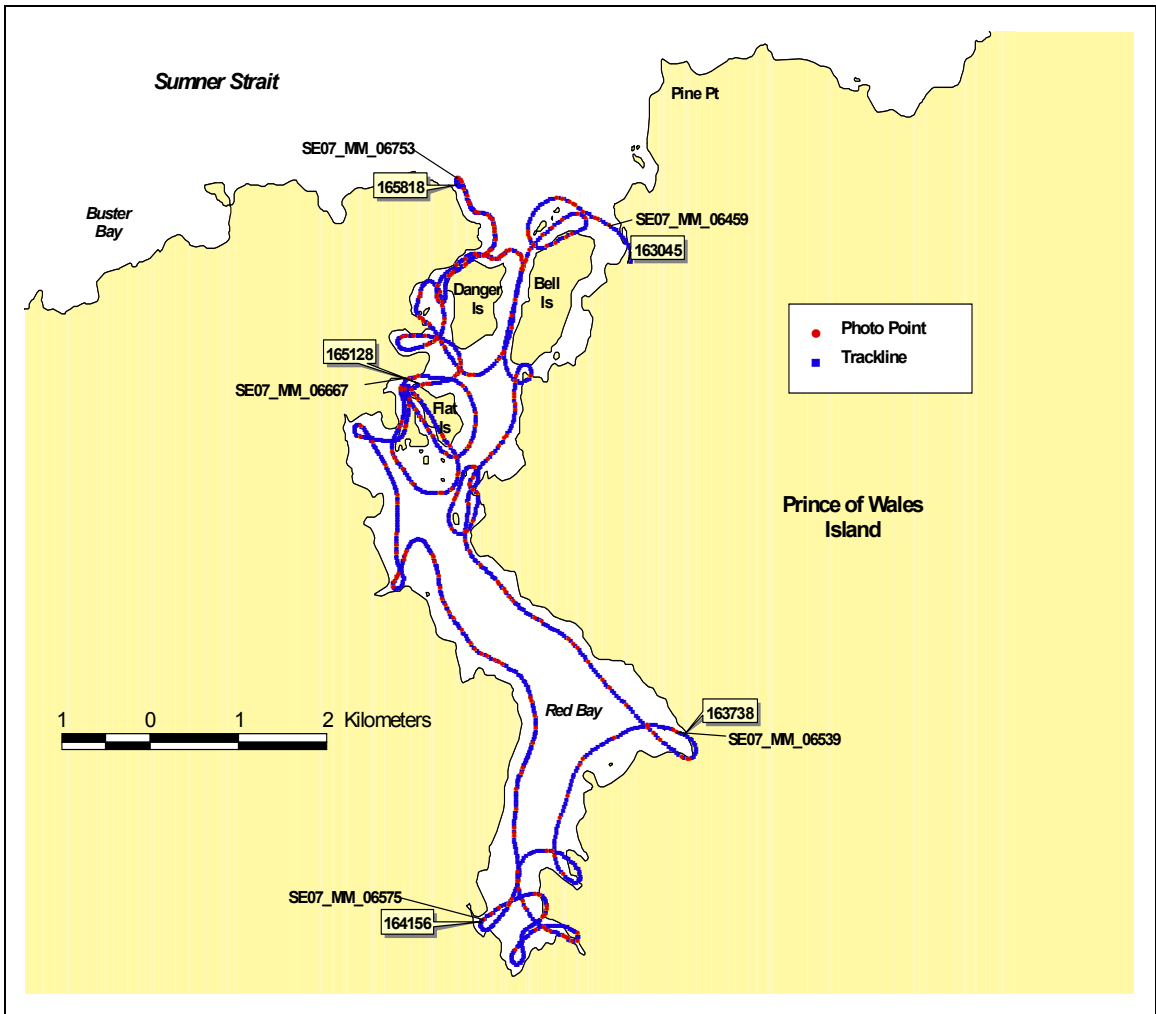
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
153535	Start of tape: Fire Island	SE07_MM_05871
160111	Northeast POW	SE07_MM_06105
161616	Salmon Bay	SE07_MM_06284
161957	Pt Colpoys	SE07_MM_06331
162530	Pine Pt	SE07_MM_06405
163001	End of tape: Bell Island	SE07_MM_06456



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_13

**General Location:** North Prince of Wales to Red Bay

**Date:** **15 July 2007**

**Time Start:** 163045 (UTC) (0830 ADT)

**Fuel Break:** None

**Time Stop:** 165818 (UTC) (0858 ADT)

**Tape Length:** 27:33

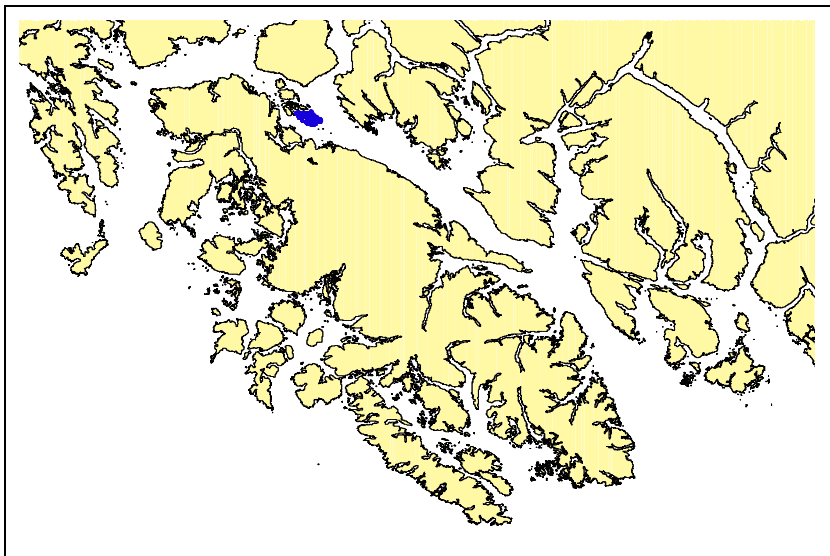
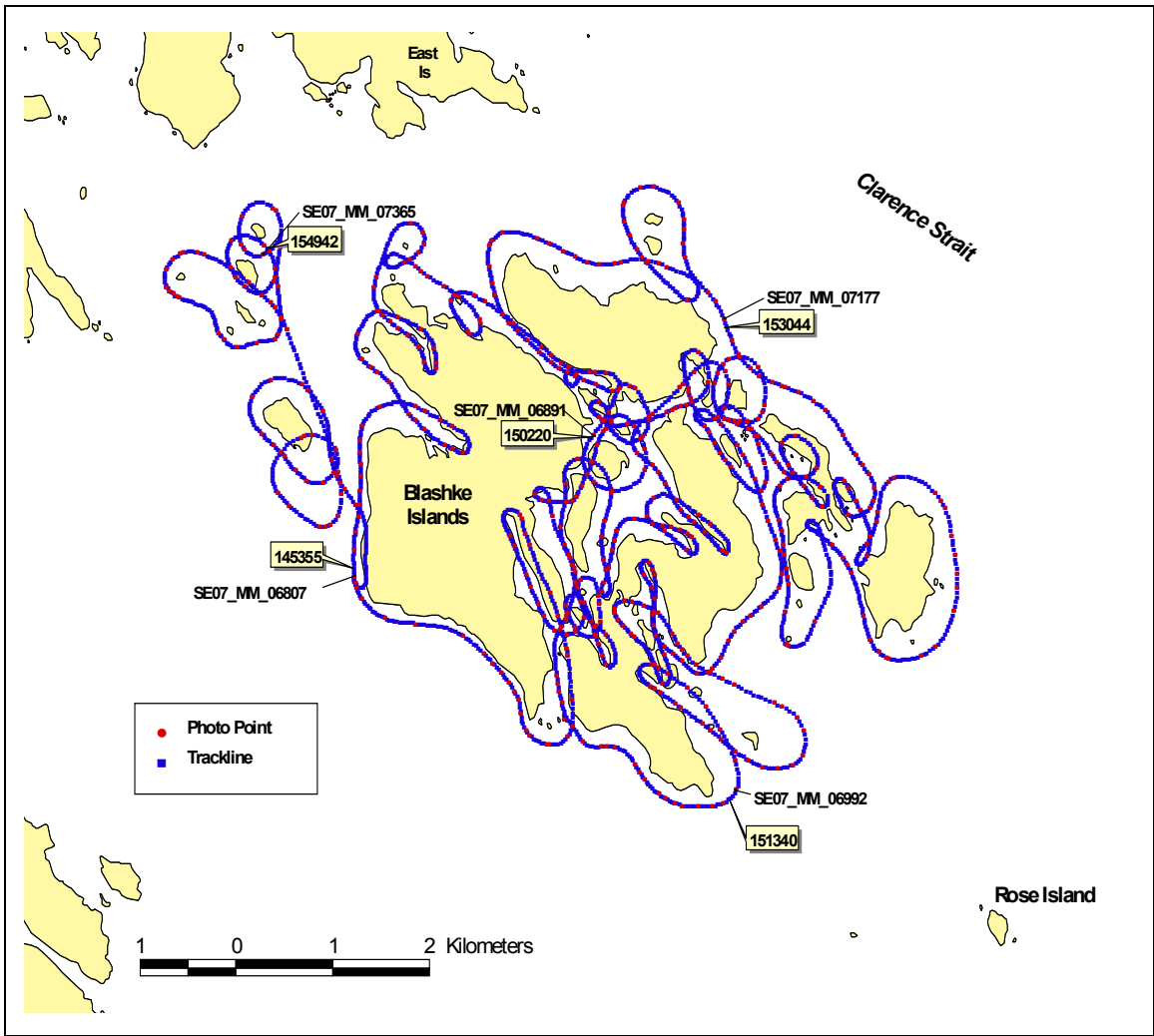
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
163045	Start of tape: Bell Island	SE07_MM_06459
163738	SE Red Bay	SE07_MM_06539
164156	South Red Bay	SE07_MM_06575
165128	Flat Island	SE07_MM_06667
165818	End of tape:North POW	SE07_MM_06753



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_14

**General Location:** Blashke Island

**Date:** **16 July 2007**

**Time Start:** 145355 (UTC) (0653 ADT)

**Fuel Break:** None

**Time Stop:** 154942 (UTC) (0749 ADT)

**Tape Length:** 53:42

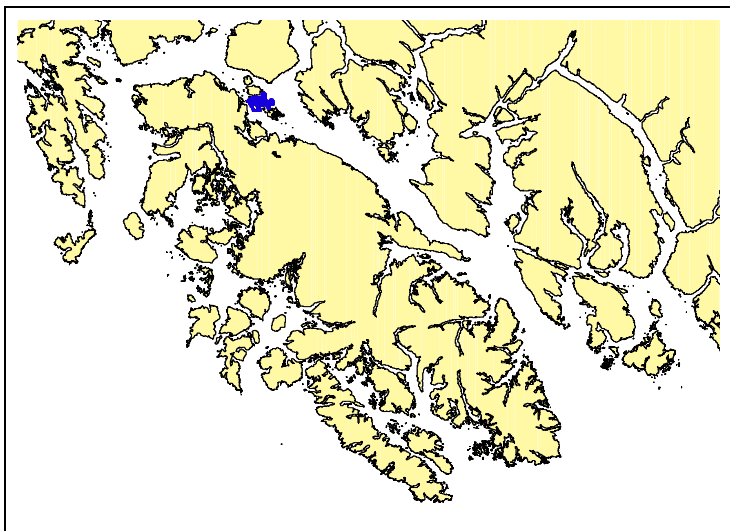
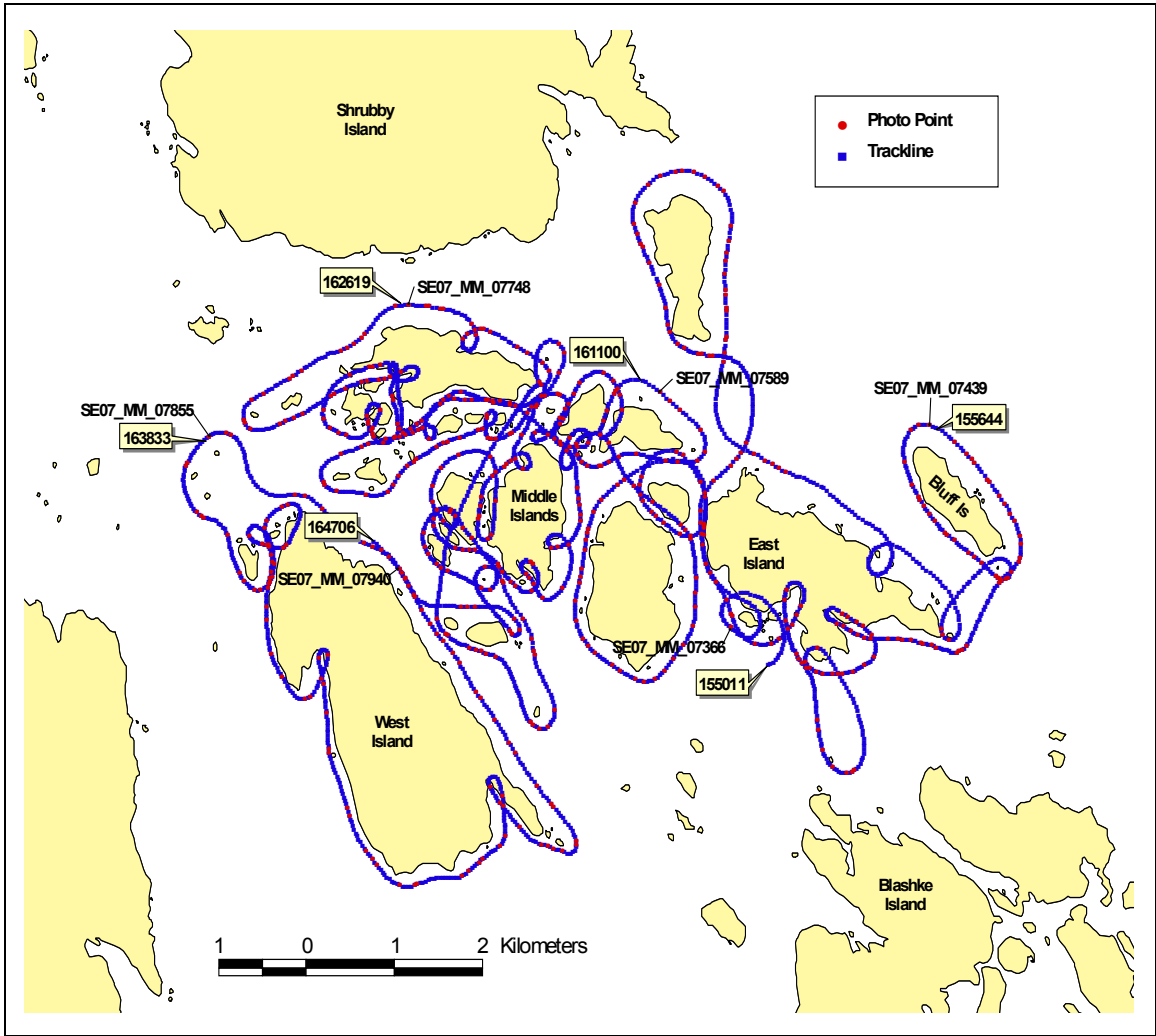
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
14:53:55	Start of tape: East Blashke Island	SE07_MM_06807
15:02:20	Small islet	SE07_MM_06891
	Break 151022 to 151225	
151340	South Blashke Island	SE07_MM_06992
153044	NE Blashke Island	SE07_MM_07177
154942	End of tape: Small islet NW of Blashke Is	SE07_MM_07365



**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_15

**General Location:** Middle and West Islands

**Date:** **16 July 2007**

**Time Start:** 155011 (UTC) (0750 ADT)

**Fuel Break:** None

**Time Stop:** 164706 (UTC) (0847 ADT)

**Tape Length:** 56:55

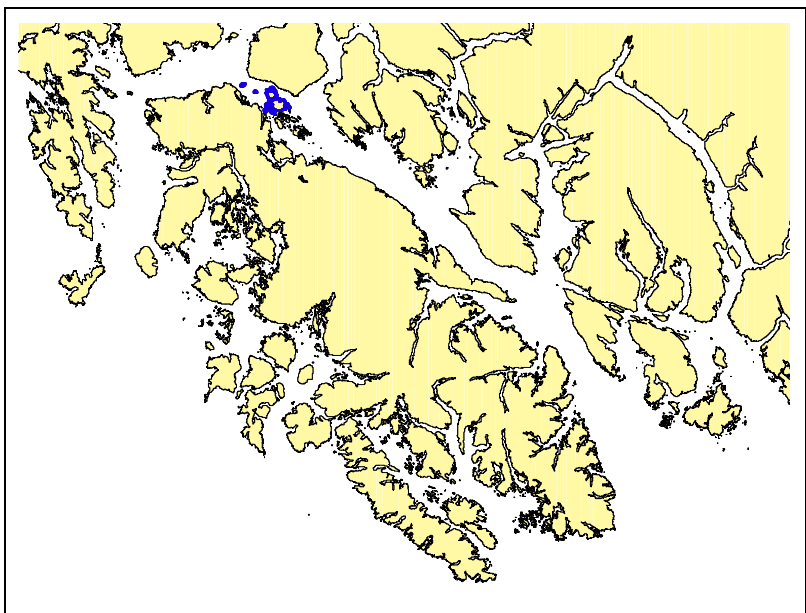
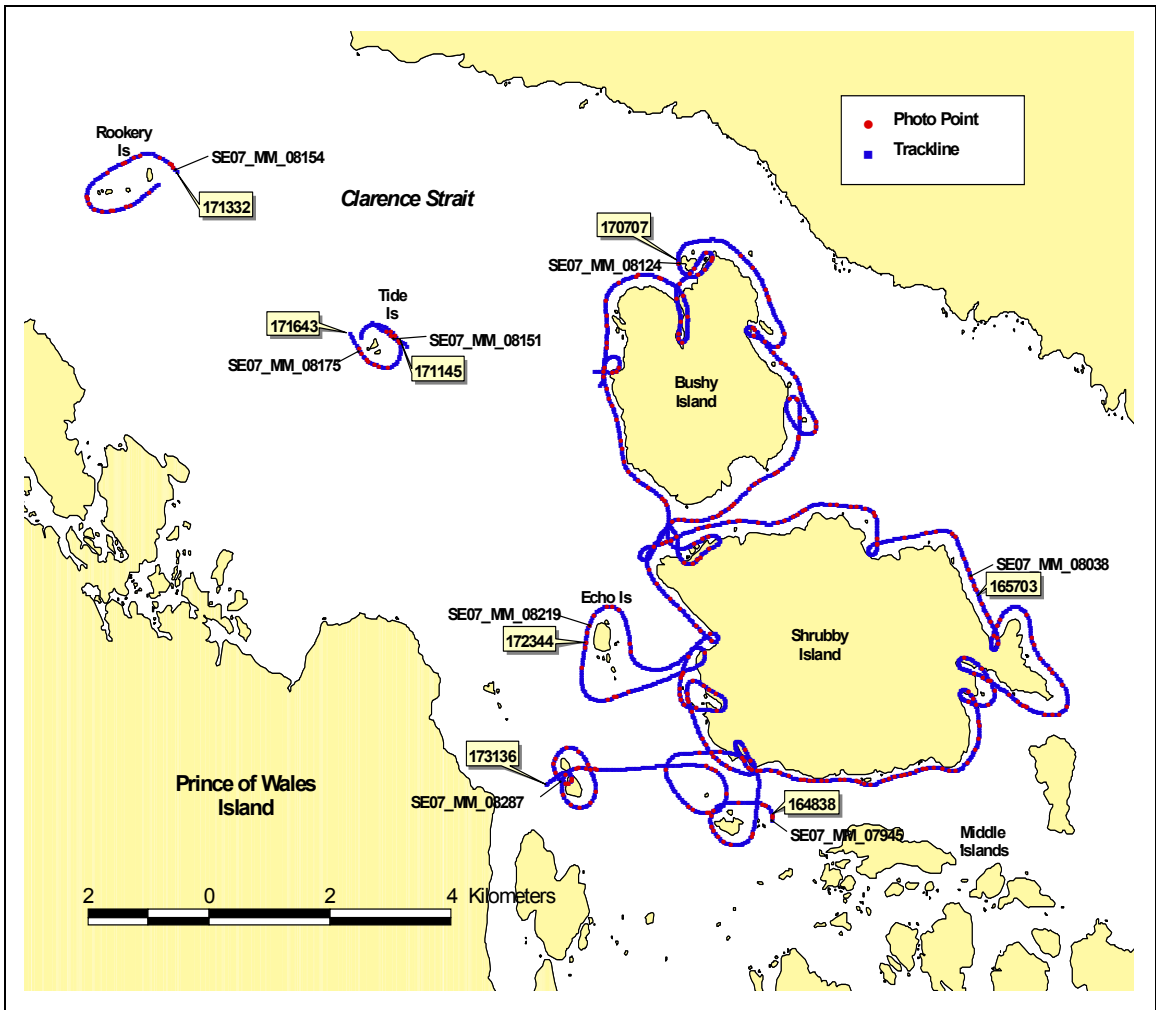
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
155011	Start of tape: East Island	SE07_MM_07366
155644	North Bluff Island	SE07_MM_07439
161100	Middle Islands	SE07_MM_07589
162619	North Middle Island	SE07_MM_07748
163833	North West Island	SE07_MM_07855
164706	End of tape: West Island	SE07_MM_07940





**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_16

**General Location:** Shrubby Island to Echo Island

**Date:** **16 July 2007**

**Time Start:** 164838 (UTC) (0848 ADT)

**Fuel Break:** None

**Time Stop:** 173136 (UTC) (0931 ADT)

**Tape Length:** 34:16

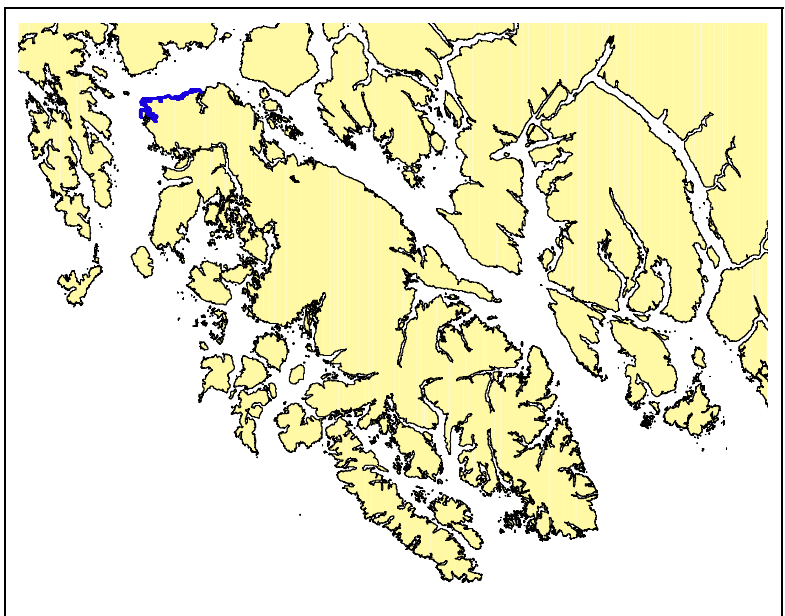
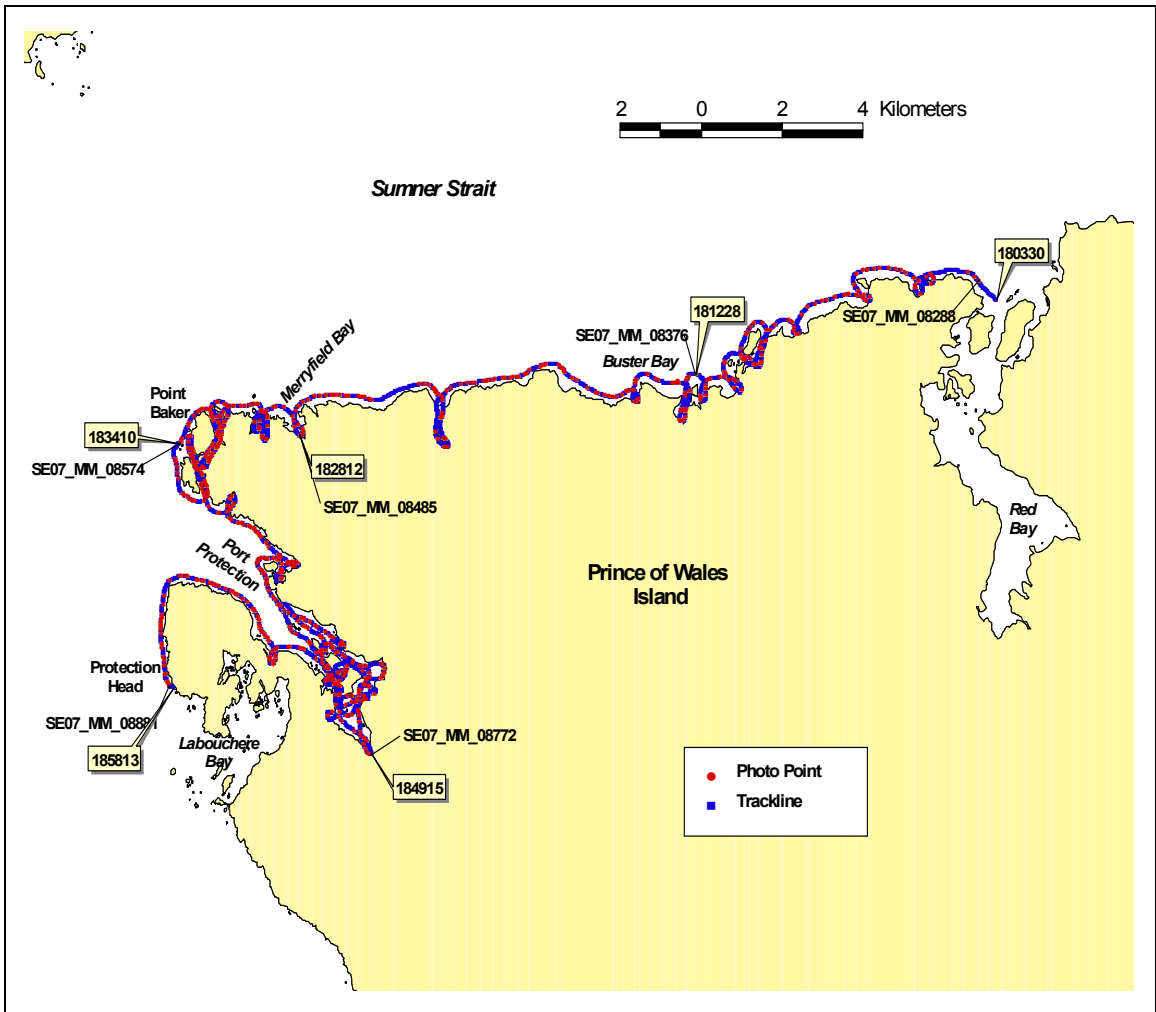
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
164838	Start of tape: Small islet south of Shrubby Is	SE07_MM_07945
165703	East Shrubby Island	SE07_MM_08038
170707	North Bushy Island	SE07_MM_08124
	Break 171028 to 171144	
171145	Tide Island	SE07_MM_08151
	Break 171201 to 171331	
171332	Rookery Island	SE07_MM_08154
	Break 171456 to 171642	
171643	Tide Island	SE07_MM_08175
	Break 171738 to 171924	
172344	Echo Island	SE07_MM_08219
173136	End of tape: Islet north of Exchange Is	SE07_MM_08287



**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_17

**General Location:** Red Bay to Protection Head

**Date:** **16 July 2007**

**Time Start:** 180330 (UTC) (1003 ADT)

**Fuel Break:** none

**Time Stop:** 185813 (UTC) (1058 ADT)

**Tape Length:** 47:48

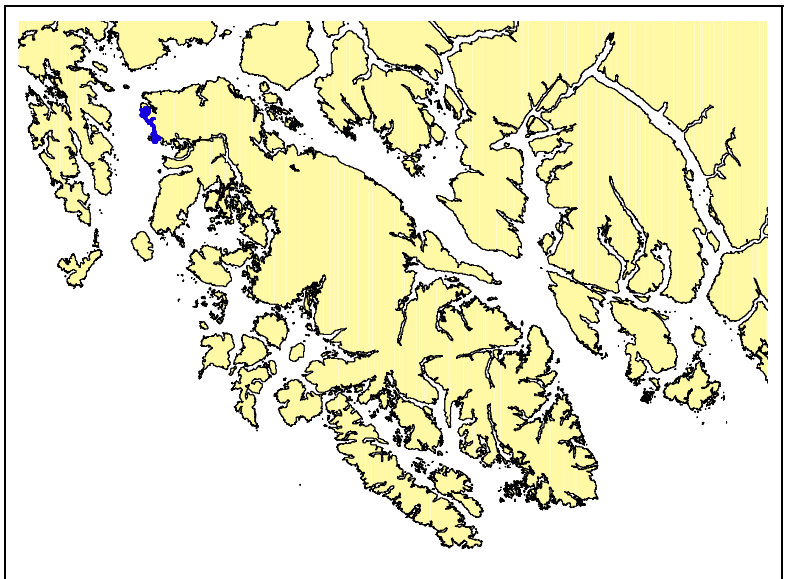
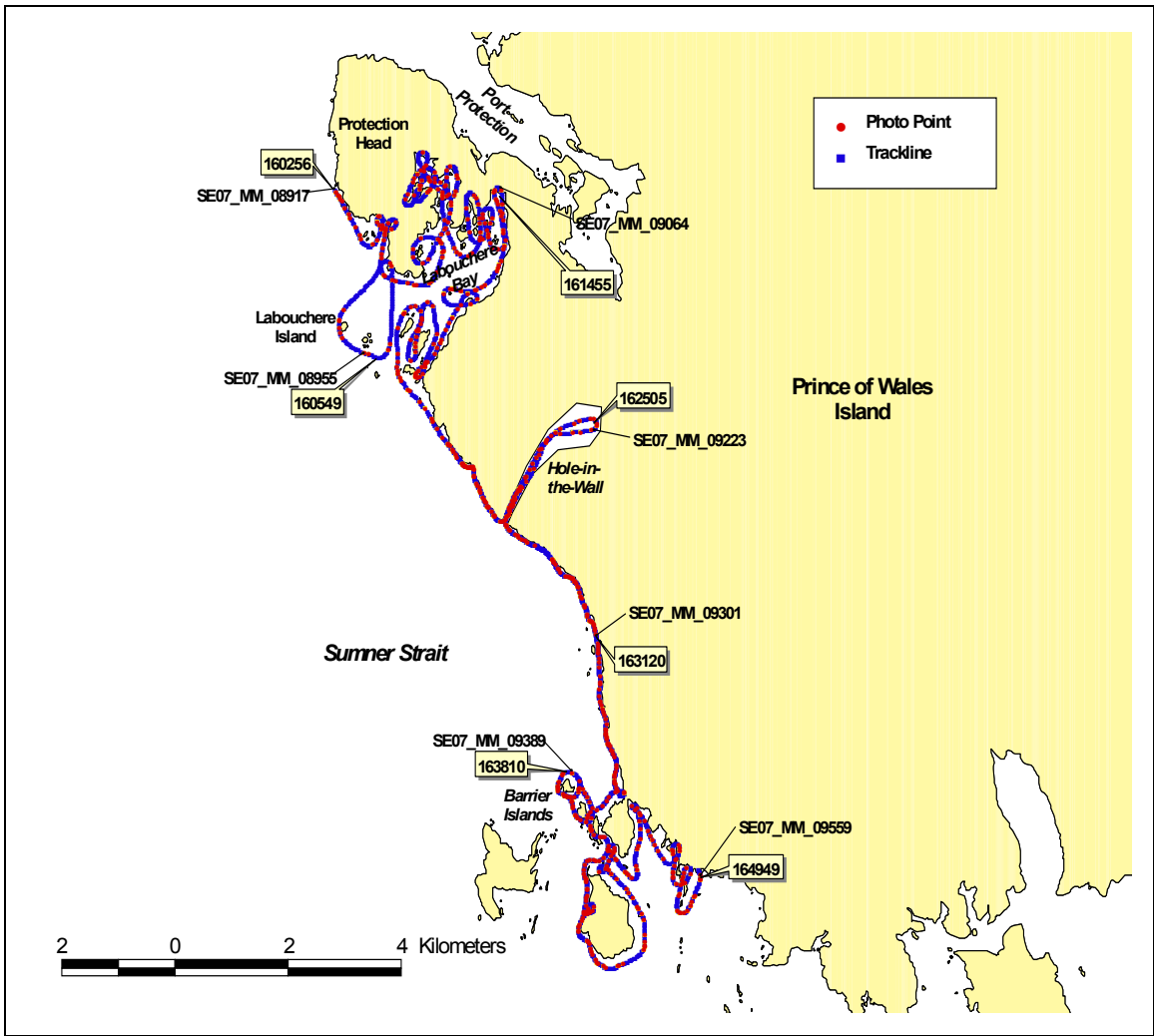
**Geo:** Daley

**Bio:** Morris

**Nav:** Harney

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
180330	Start of tape: Red Bay	SE07_MM_08288
181228	Buster Bay	SE07_MM_08376
	Transit 181853 to 182546	
182812	Merryfield Bay	SE07_MM_08485
183410	Point Baker	SE07_MM_08574
184915	Head of Port Protection	SE07_MM_08772
185813	End of tape: Protection Head	SE07_MM_08881



**ShoreZone Aerial Video Imaging (AVI) Survey  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_18

**General Location:** Protection Head to Barrier Islands

**Date:** 17 July 2007

**Time Start:** 160256 (UTC) (0802 ADT)

**Fuel Break:** none

**Time Stop:** 164949 (UTC) (0849 ADT)

**Tape Length:** 45:57

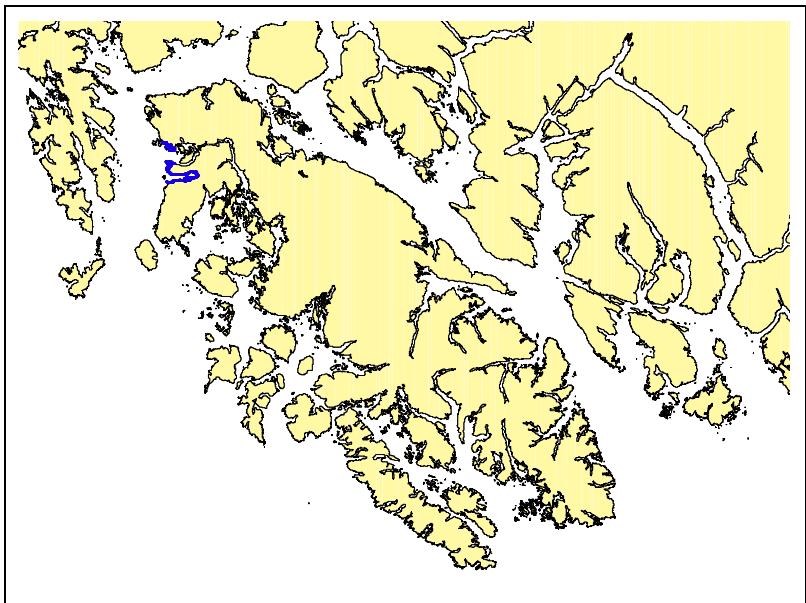
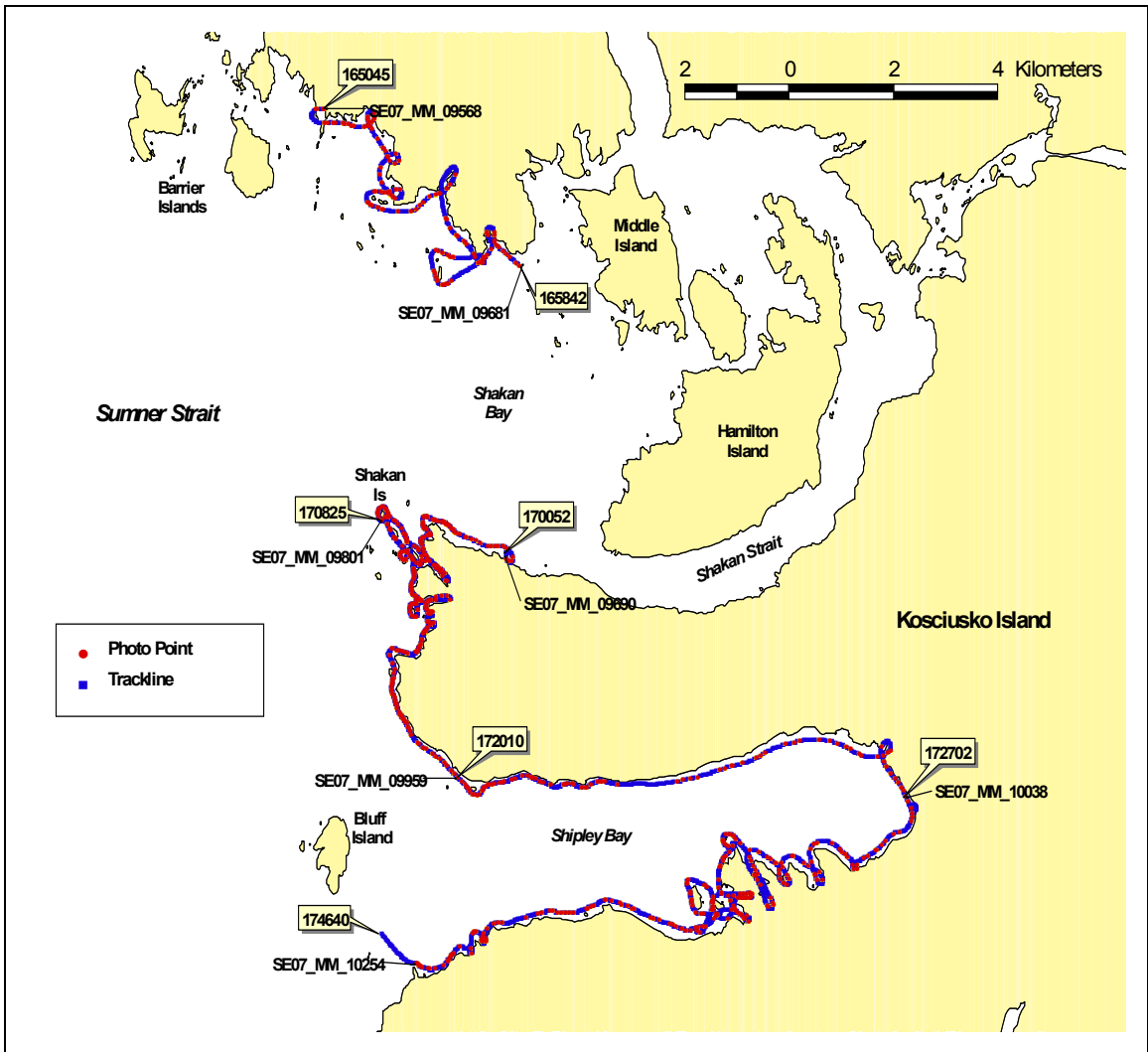
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
160256	Start of tape: Protection Head	SE07_MM_08917
160549	Labouchere Island	SE07_MM_08955
161455	Labouchere Bay	SE07_MM_09064
162505	Head of Hole in the Wall	SE07_MM_09223
163120	Northeast POW	SE07_MM_09301
	Break 163630 to 163724	
163810	Barrier Islands	SE07_MM_09389
164949	End of tape: Entrance to Shakan Bay	SE07_MM_09559



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_19

**General Location:** Entrance to Shakan Bay to Shipley Bay

**Date:** 17 July 2007

**Time Start:** 165045 (UTC) (0850 ADT)

**Fuel Break:** none

**Time Stop:** 174640 (UTC) (0946 ADT)

**Tape Length:** 53:45

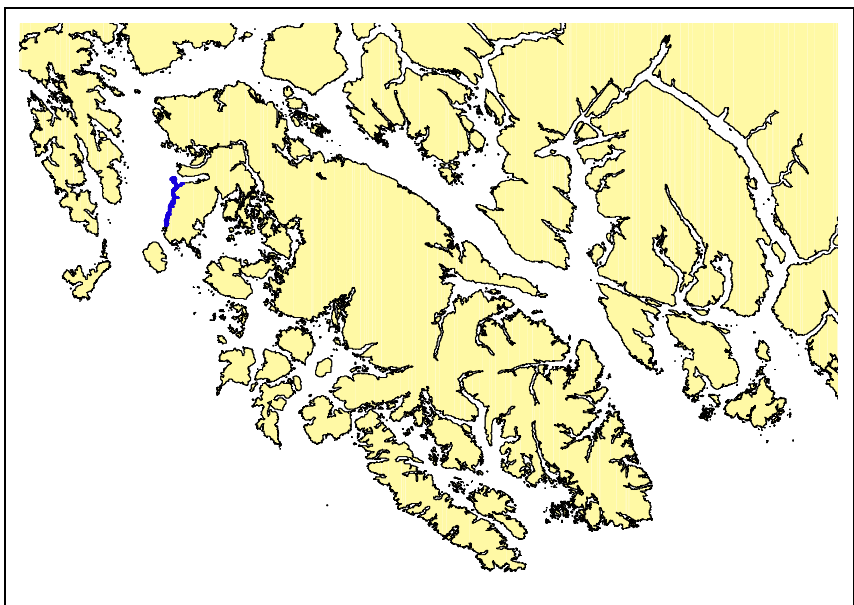
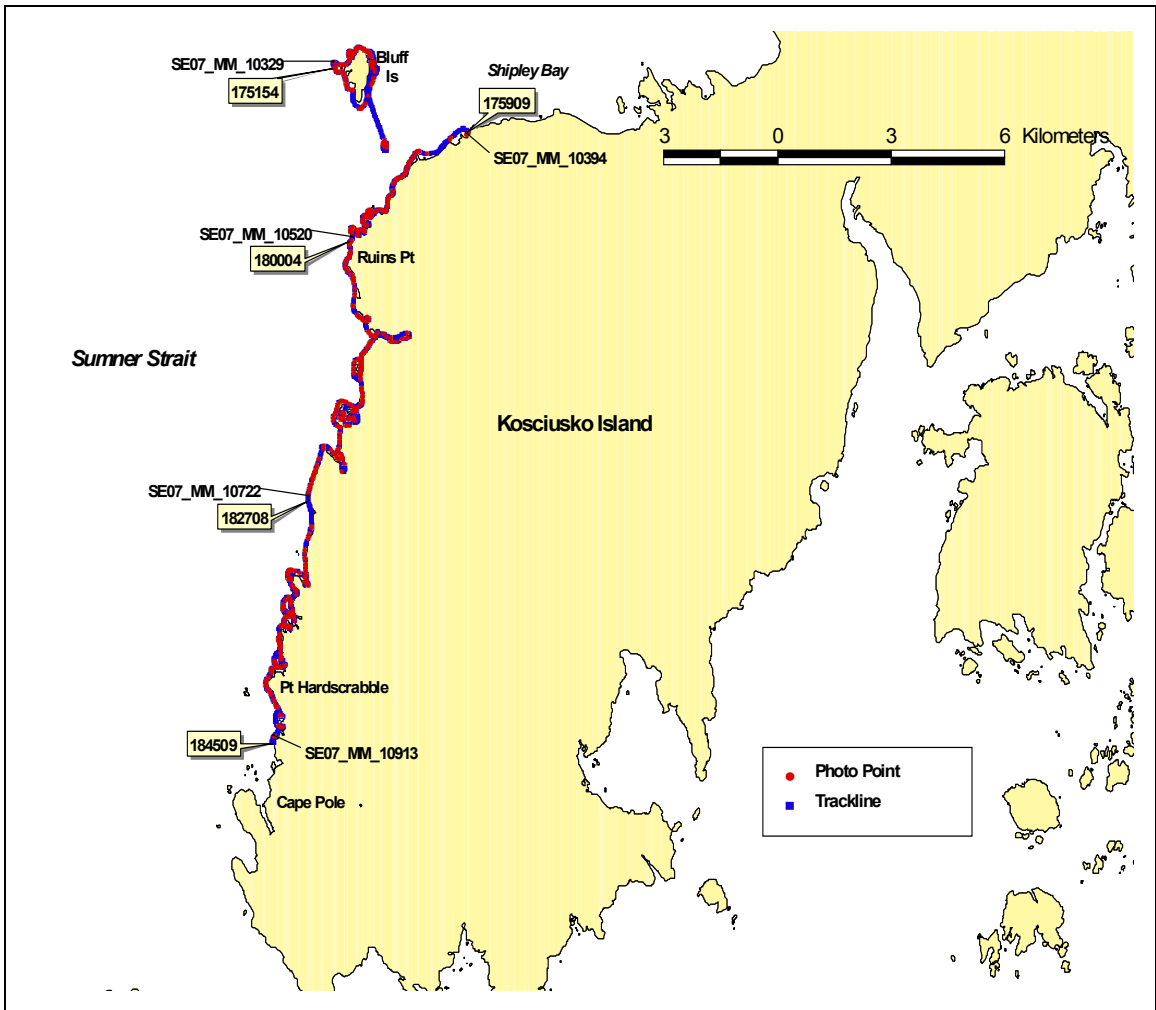
**Geo:** Harney

**Bio:** Morris

**Nav:** Daley

**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
165045	Start of tape: Entrance to Shakan Bay	SE07_MM_09568
165842	Shakan Bay; break off	SE07_MM_09681
	Transit (skip Shakan Bay) 165843 to 170051	
170825	Shakan Island	SE07_MM_09801
172010	Entrance to Shipley Bay	SE07_MM_09959
172702	Head of Shipley Bay	SE07_MM_10038
174640	End of tape: Shipley Bay	SE07_MM_10254





**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
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**Team Tokeen (TK)  
Tape Log**

**Tape Number:** SE07\_TK\_20

**General Location:** Bluff Island to Pt Hardscrabble

**Date:** 17 July 2007

**Time Start:** 174737 (UTC) (0947 ADT)

**Fuel Break:** none

**Time Stop:** 184509 (UTC) (1045 ADT)

**Tape Length:** 52:39

**Geo:** Harney/Daley

**Bio:** Morris

**Nav:** Daley/Harney

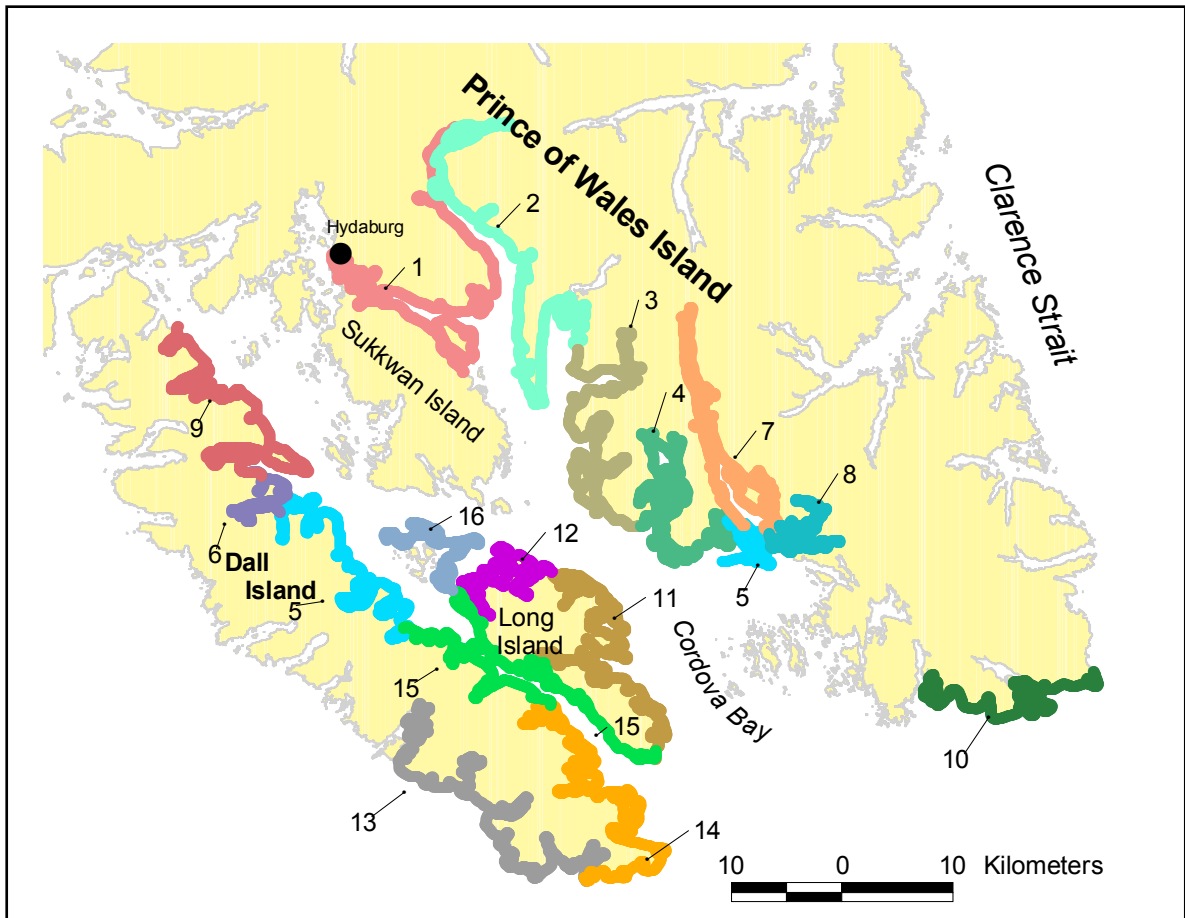
**Weather:** Fog, low ceiling, intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo No.</b>
174737	Start of tape: Bluff Island	SE07_MM_10267
175909	Entrance of Shipley Bay	SE07_MM_10394
	Transit 175718 to 175908	
180004	Ruins Pt	SE07_MM_10520
	Break 181521 to 181820	
182708	West Kosciuska Island	SE07_MM_10722
184509	End of tape: Pt Hardscrabble	SE07_MM_10913

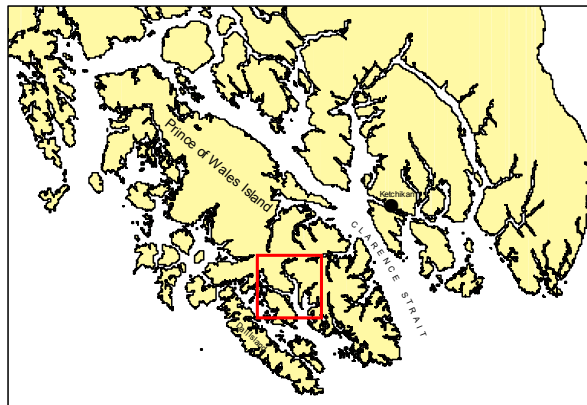
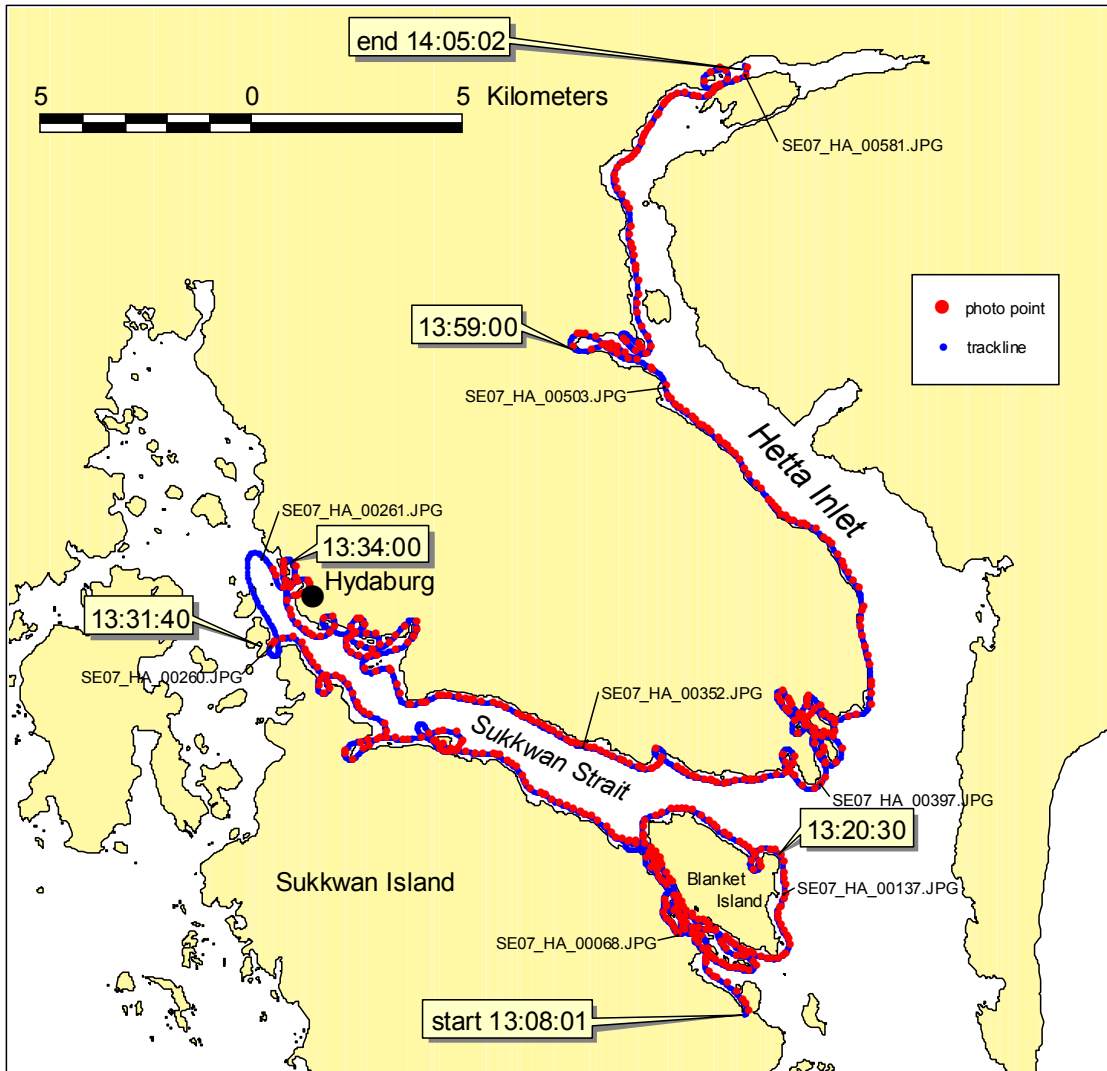


**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)**  
Survey Maps and Tape Logs  
DVDs: SE07\_DL01 to SE07\_DL16



Flight trackline map showing the location and extent of specific videotapes (DVDs) for the July 12-17, 2007 **Team Dall** survey of North Prince of Wales Island in Southeast Alaska.



**SE07\_DL\_01**

**13 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_01

**General Location:** Sukkwan Strait, Hydaburg, Hetta Inlet

**Date:** 13 July 2007

**Time Start:** 130801 (UTC) (050801 ADT)

**Fuel Break:** none

**Time Stop:** 140502 (UTC) (060502 ADT)

**Tape Length:** 57:01

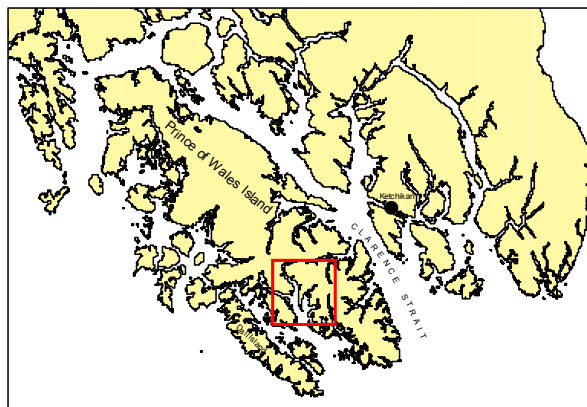
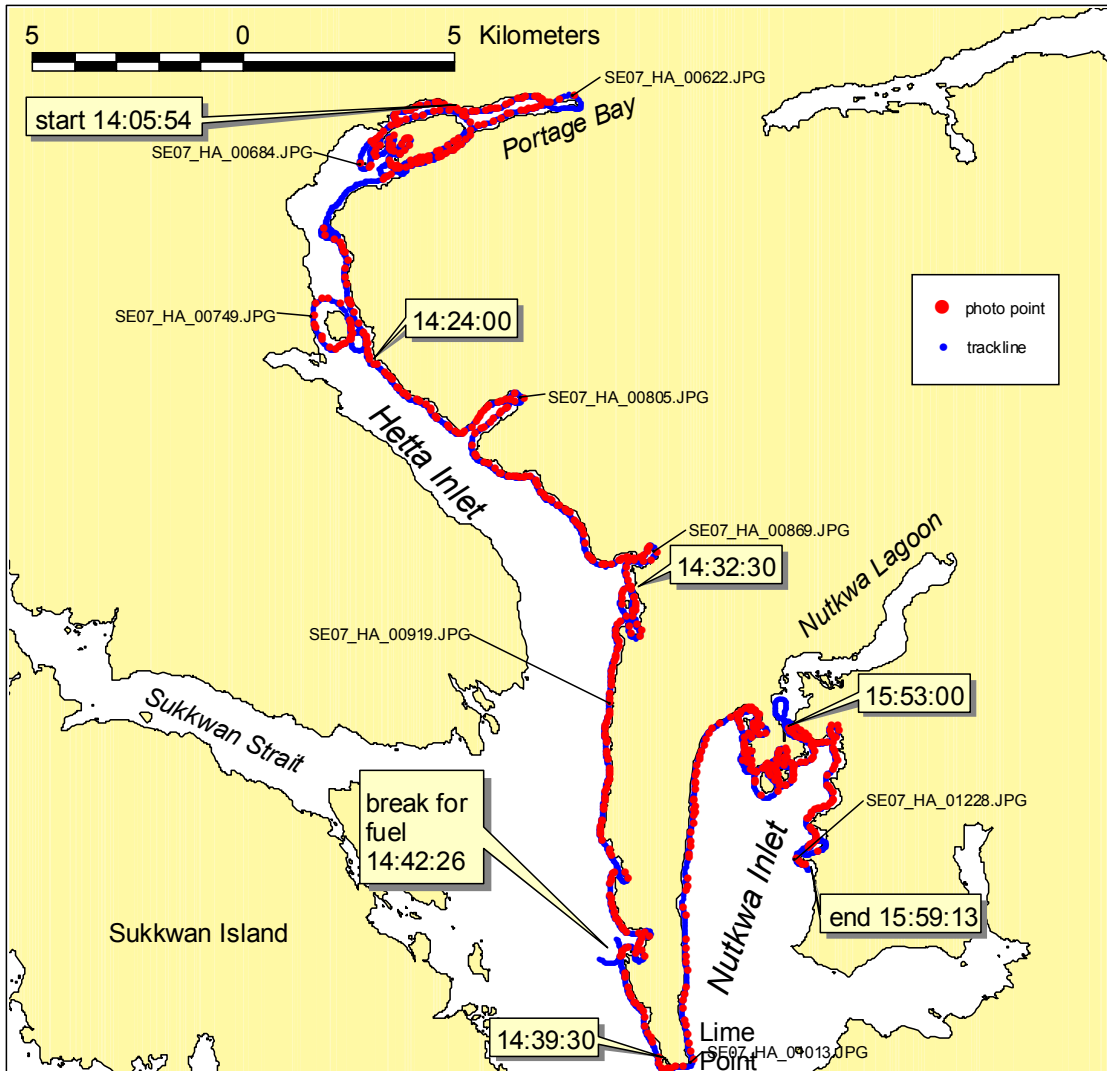
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Low ceiling; intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
13:08:01	Sukkwan Island	SE07_HA_00001
13:20:25	Round Point, Blanket Island	SE07_HA_00141
13:33:16	Hydaburg	SE07_HA_00261
13:47:29	Eek Point	SE07_HA_00397
13:58:35	Deer Bay, Hetta Inlet	SE07_HA_00516
14:05:00	Sulzer Passage, Hetta Inlet	SE07_HA_00582



**SE07\_DL\_02**  
**13 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_02

**General Location:** Hetta Inlet, Nutkwa Inlet

**Date:** 13 July 2007

**Time Start:** 140554 (UTC) (060554 ADT)

**Fuel Break:** 144226 to 153718

**Time Stop:** 155913 (UTC) (075913 ADT)

**Tape Length:** 58:25

**Geo:** Borecky

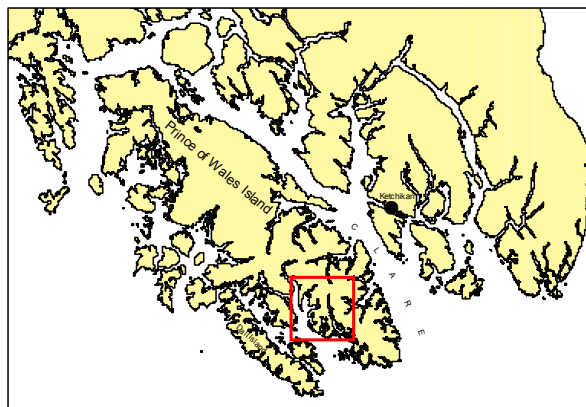
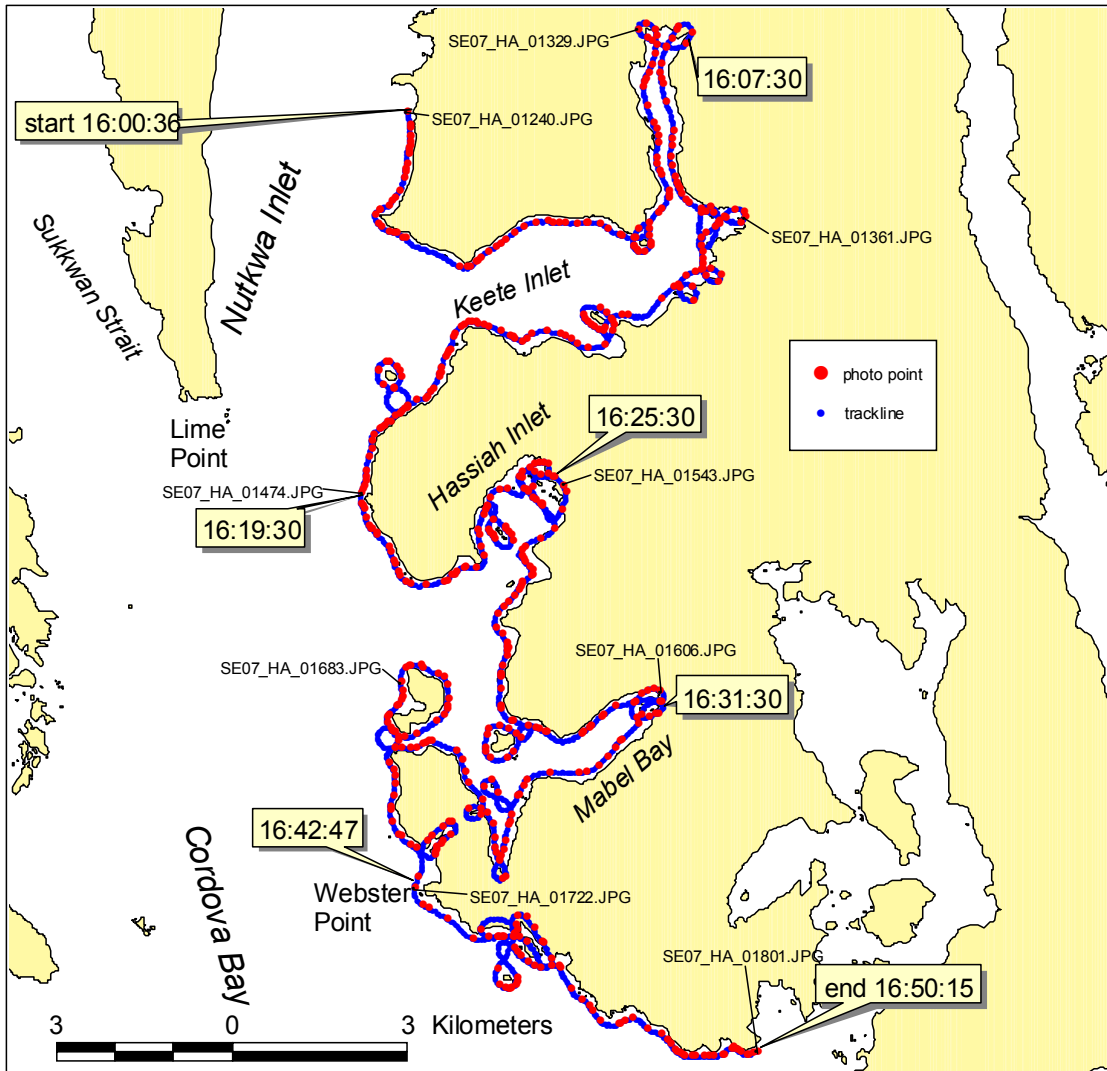
**Bio:** Anderson

**Nav:** Ward

**Weather:** Low ceiling; intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:05:54	Sulzer Passage, Hetta Inlet	SE07_HA_00589
14:24:00	Corbin Point	SE07_HA_00766
14:32:19	Hetta (abandoned)	SE07_HA_00879
14:41:13	Mud Bay	SE07_HA_00985
14:42:26	Transit to Hydaburg, break for fuel	
15:37:36	Resume Mud Bay	SE07_HA_00990
15:39:28	Lime Point	SE07_HA_01007
15:53:03	Entrance Nutkwa Lagoon	SE07_HA_01171
15:59:07	East side Nutkwa Inlet	SE07_HA_01231

Note: Biology audio weak after fuel break.



**SE07\_DL\_03**

**13 July 2007**



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_03

**General Location:** Nutkwa Inlet, Keete Inlet, Hassiah Inlet, Mabel Bay to Webster Pt.

**Date:** 13 July 2007

**Time Start:** 160036 (UTC) (080036 ADT)

**Fuel Break:** none

**Time Stop:** 165015 (UTC) (085015 ADT)

**Tape Length:** 49:39

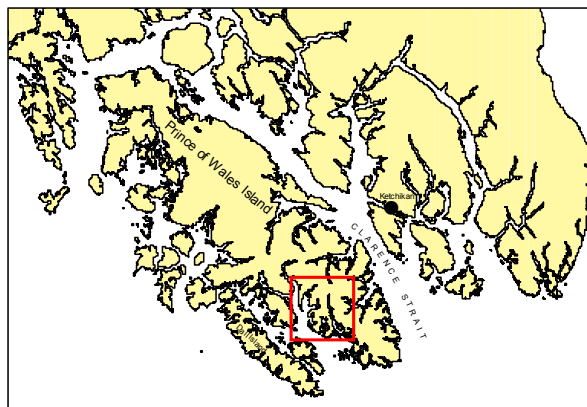
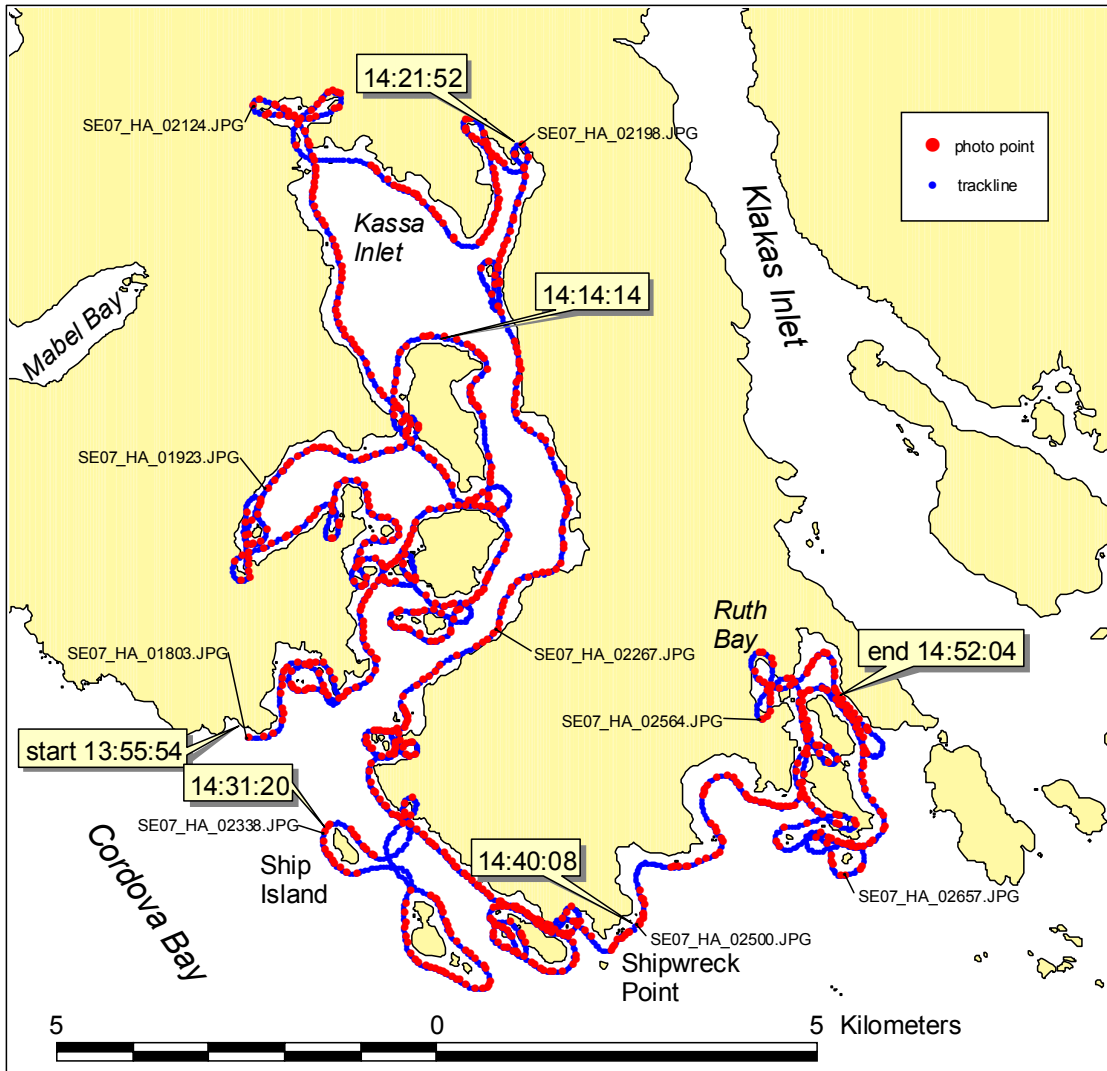
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Low ceiling; intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:00:36	East side Nutkwa Inlet	SE07_HA_01240
16:07:10	Head of Keete Inlet	SE07_HA_01329
16:25:26	Head of Hassiah Inlet	SE07_HA_01543
16:31:27	Head of Mabel Inlet	SE07_HA_01606
16:39:38	Mabel Island	SE07_HA_01683
16:42:47	Webster Point	SE07_HA_01722
16:50:15	Entrance to Kassa Inlet	SE07_HA_01801



**SE07\_DL\_04**  
**14 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
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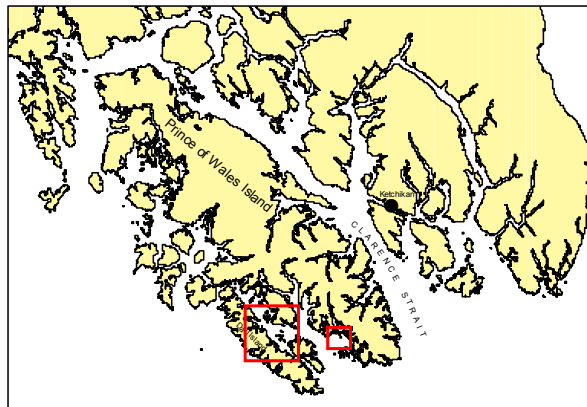
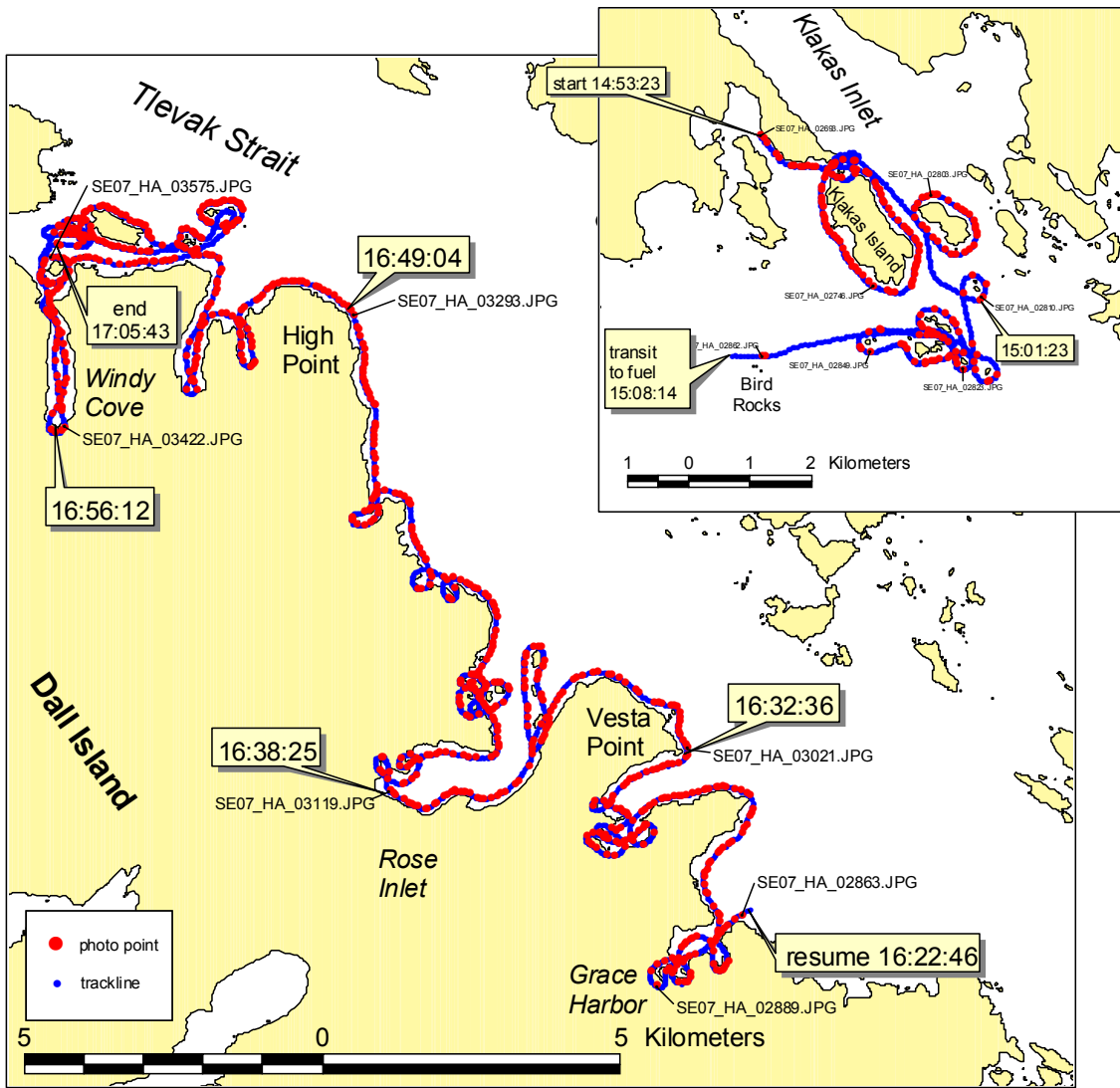
**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_04

**General Location:** Kassa Inlet, Shipwreck Point, Ruth Bay  
**Date:** 14 July 2007  
**Time Start:** 135554 (UTC) (055554 ADT)  
**Fuel Break:** none  
**Time Stop:** 145204 (UTC) (065204 ADT)  
**Tape Length:** 56:10  
**Geo:** Borecky  
**Bio:** Anderson  
**Nav:** Ward

**Weather:** Low ceiling; intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
13:55:54	Entrance to Kassa Inlet	SE07_HA_01803
14:14:14	Island center of Kassa Inlet	SE07_HA_02052
14:21:52	NE arm Kassa Inlet	SE07_HA_02185
14:31:20	Ship Island	SE07_HA_02337
14:40:08	Shipwreck Point	SE07_HA_02500
14:52:04	Ruth Bay	SE07_HA_02691



**SE07\_DL\_05**  
**14 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
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**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_05

**General Location:** Klakas Island and islands south of Klakas Inlet;  
Dall Island: Grace Harbor to Windy Cove

**Date:** 14 July 2007

**Time Start:** 145323 (UTC) (065323 ADT)

**Fuel Break:** 150814 to 162246

**Time Stop:** 170543 (UTC) (090543 ADT)

**Tape Length:** 57:46

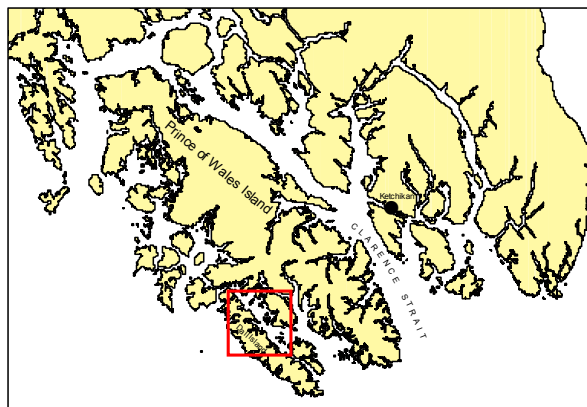
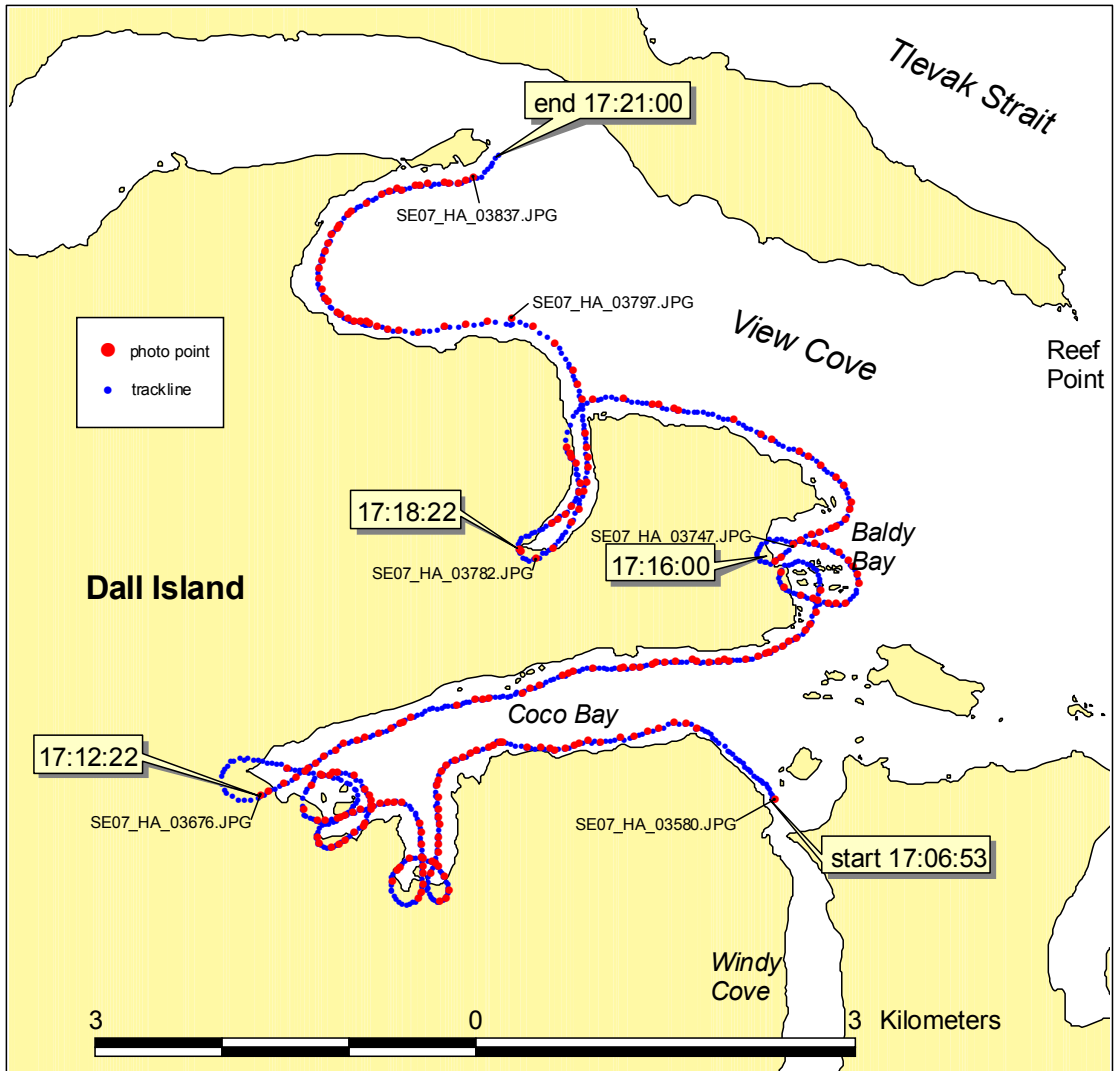
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Low ceiling; intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:53:23	Ruth Bay	SE07_HA_02693
14:56:38	Klakas Island	SE07_HA_02746
15:08:01	Bird Rocks	SE07_HA_02862
15:08:14	Transit to refuel Grace Harbor, Dall Island	
16:22:46	Grace Harbor	SE07_HA_02863
16:32:36	Vesta Point	SE07_HA_03021
16:38:25	Rose Inlet	SE07_HA_03119
16:49:04	High Point	SE07_HA_03293
16:56:12	Head of Windy Cove	SE07_HA_03422
17:05:43	Entrance to Windy Cove	SE07_HA_05575



**SE07\_DL\_06**

**14 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

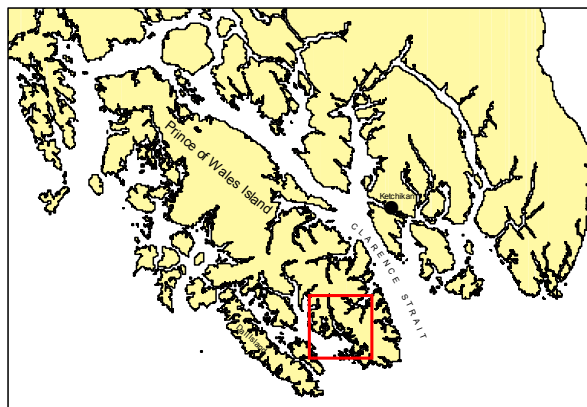
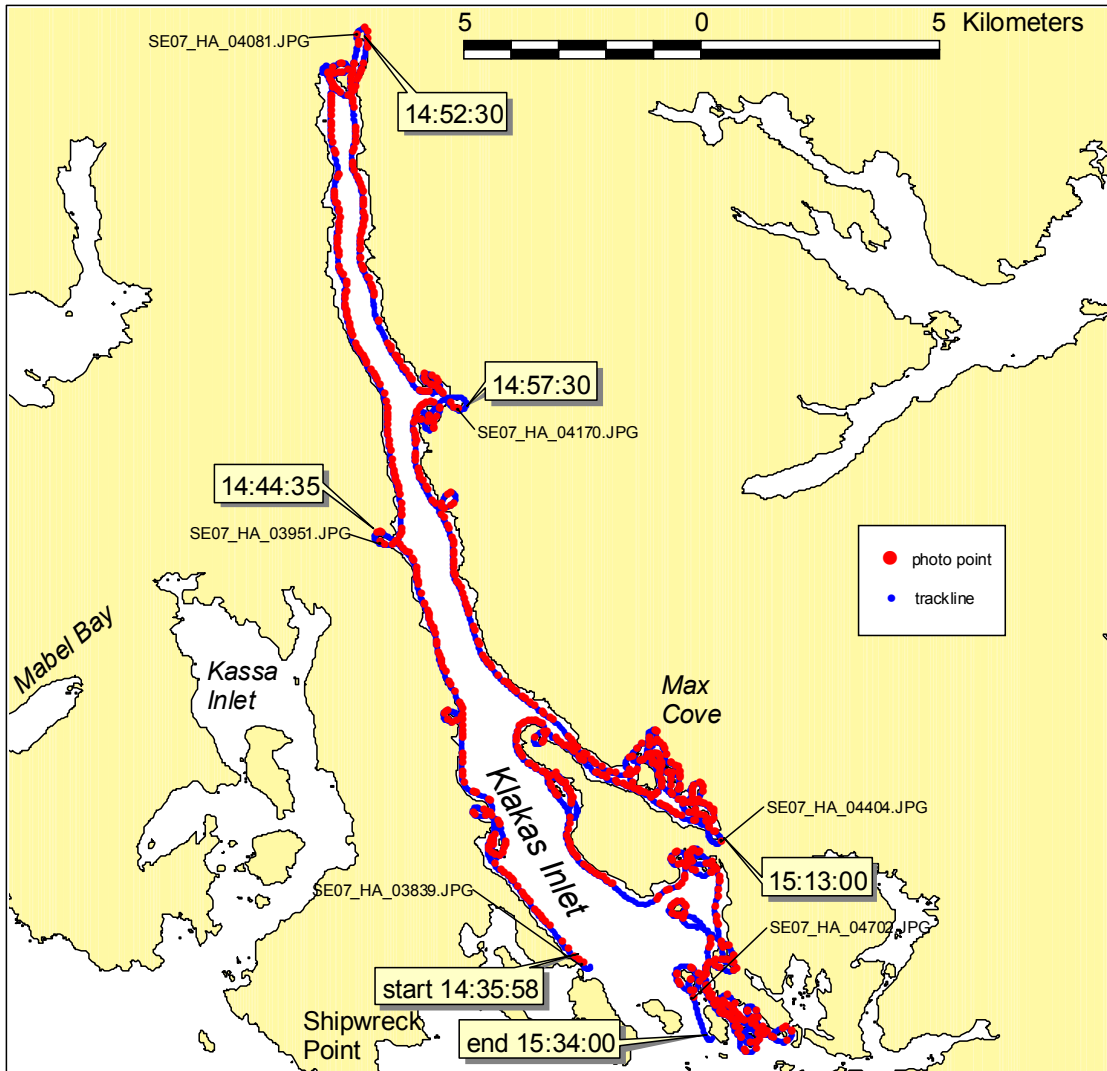
**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_06

**General Location:** Coco Harbor, View Cove  
**Date:** 14 July 2007  
**Time Start:** 170653 (UTC) (09063 ADT)  
**Fuel Break:** none  
**Time Stop:** 172100 (UTC) (092100 ADT)  
**Tape Length:** 14:07  
**Geo:** Borecky  
**Bio:** Anderson  
**Nav:** Ward

**Weather:** Low ceiling; intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:06:53	North of Windy Cove	SE07_HA_03580
17:12:22	Head of Coco Bay	SE07_HA_03676
17:16:18	Baldy Bay	SE07_HA_03747
17:18:22	Green Inlet	SE07_HA_03782
17:21:00	Islet center View Cove	SE07_HA_03837



**SE07\_DL\_07**

**15 July 2007**



**ShoreZone Aerial Video Imaging (AVI) Survey  
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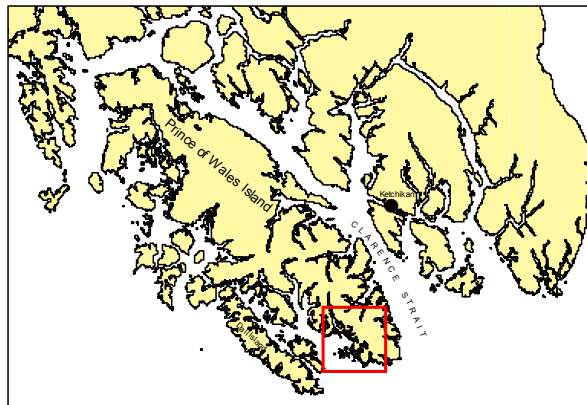
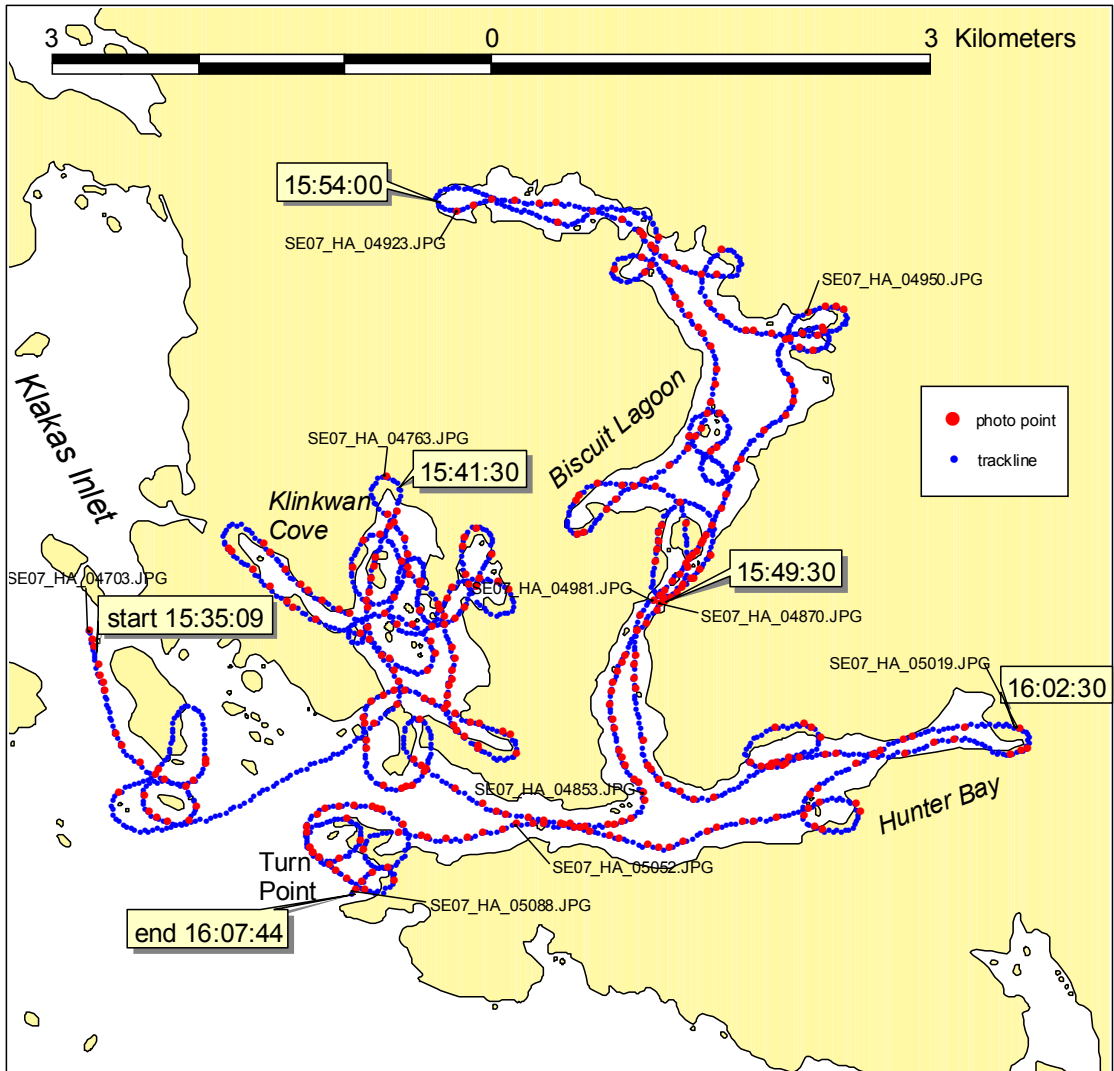
**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_07

**General Location:** Klakas Inlet, Max Cove  
**Date:** 15 July 2007  
**Time Start:** 143558 (UTC) (063558 ADT)  
**Fuel Break:** none  
**Time Stop:** 153400 (UTC) (073400 ADT)  
**Tape Length:** 58:02  
**Geo:** Borecky  
**Bio:** Anderson  
**Nav:** Ward

**Weather:** Low ceiling; intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:35:58	Entrance Klakas Inlet	SE07_HA_03
14:44:35	W. side Klakas Inlet	SE07_HA_03951
14:52:18	Head of Klakas Inlet	SE07_HA_04081
14:57:37	Cove at Klakas Lake	SE07_HA_04170
15:12:56	Head of Max Cove	SE07_HA_04404
15:34:00	Islands at entrance of Klakas Inlet	SE07_HA_04702



**SE07\_DL\_08**

**15 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
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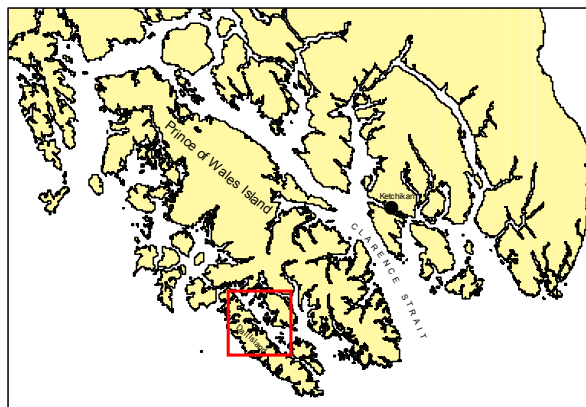
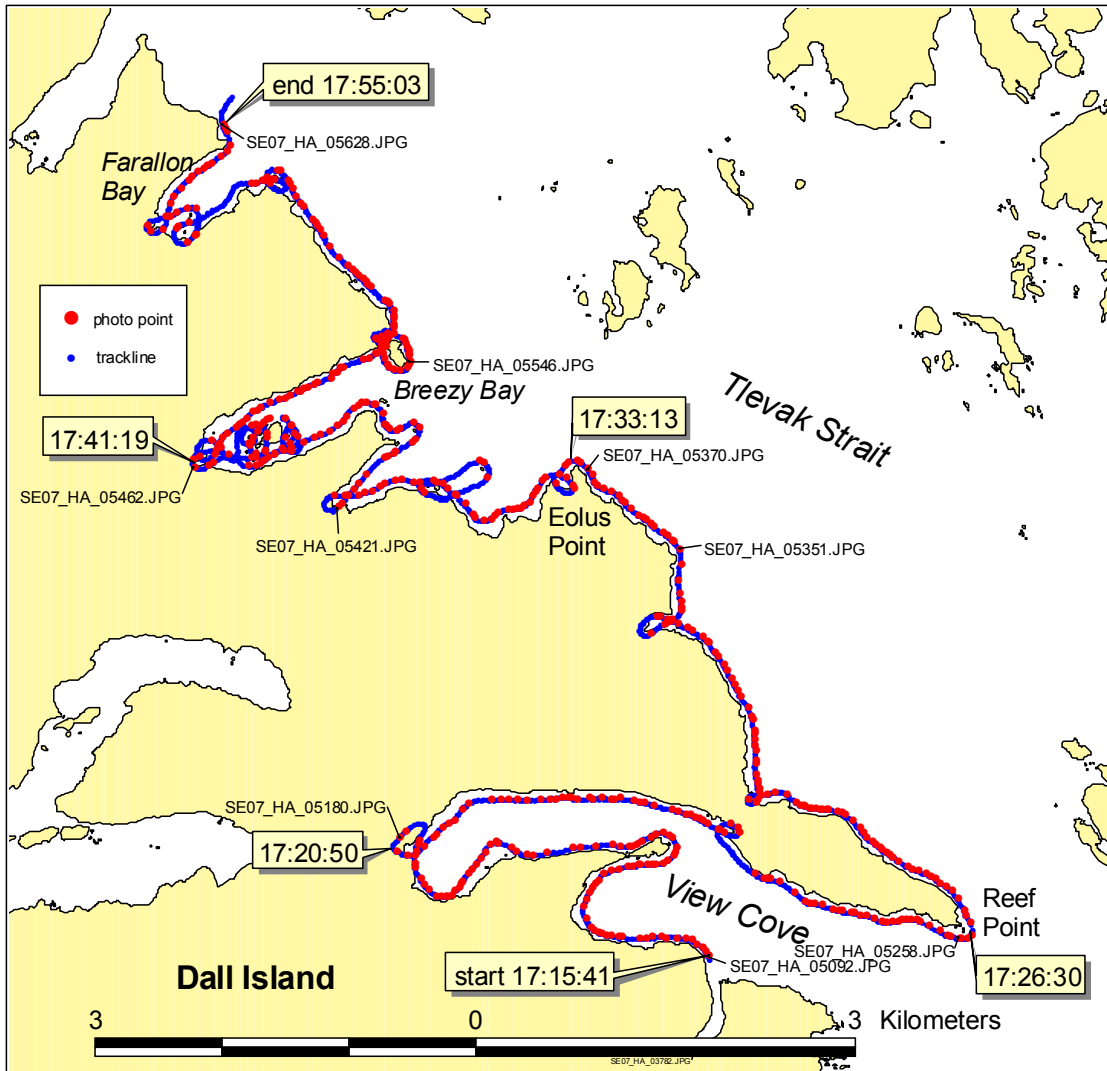
**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_08

**General Location:** Klinkwan, Hunter Bay  
**Date:** 15 July 2007  
**Time Start:** 153509 (UTC) (073509 ADT)  
**Fuel Break:** none  
**Time Stop:** 160744 (UTC) (080744 ADT)  
**Tape Length:** 32:35  
**Geo:** Borecky  
**Bio:** Anderson  
**Nav:** Ward

**Weather:** Low ceiling; intermittent visibility

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:35:09	Islands at entrance to Klakas Inlet	SE07_HA_04703
15:41:38	North Klinkwan Cove	SE07_HA_04763
15:47:43	North entrance Hunter Bay	SE07_HA_04839
15:49:17	Entrance to Biscuit Lagoon	SE07_HA_04870
15:54:17	Head of Biscuit Lagoon	SE07_HA_04923
16:02:35	Head of Hunter Bay	SE07_HA_05019
16:07:43	Turn Point	SE07_HA_05088



SE07\_DL\_09

15 July 2007

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_09

**General Location:** NE side of Dall Island, View Cove to Farallon Bay

**Date:** 15 July 2007

**Time Start:** 171541 (UTC) (091541 ADT)

**Fuel Break:** none

**Time Stop:** 175513 (UTC) (095513 ADT)

**Tape Length:** 39:32

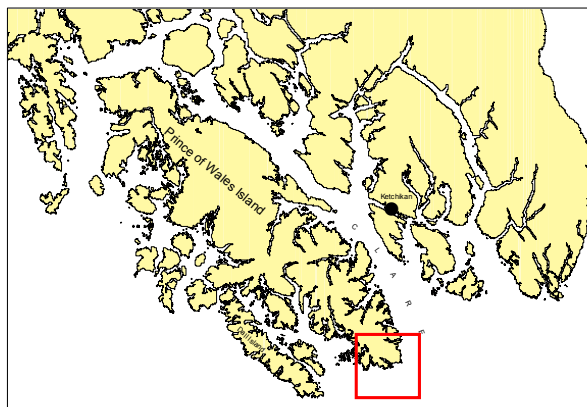
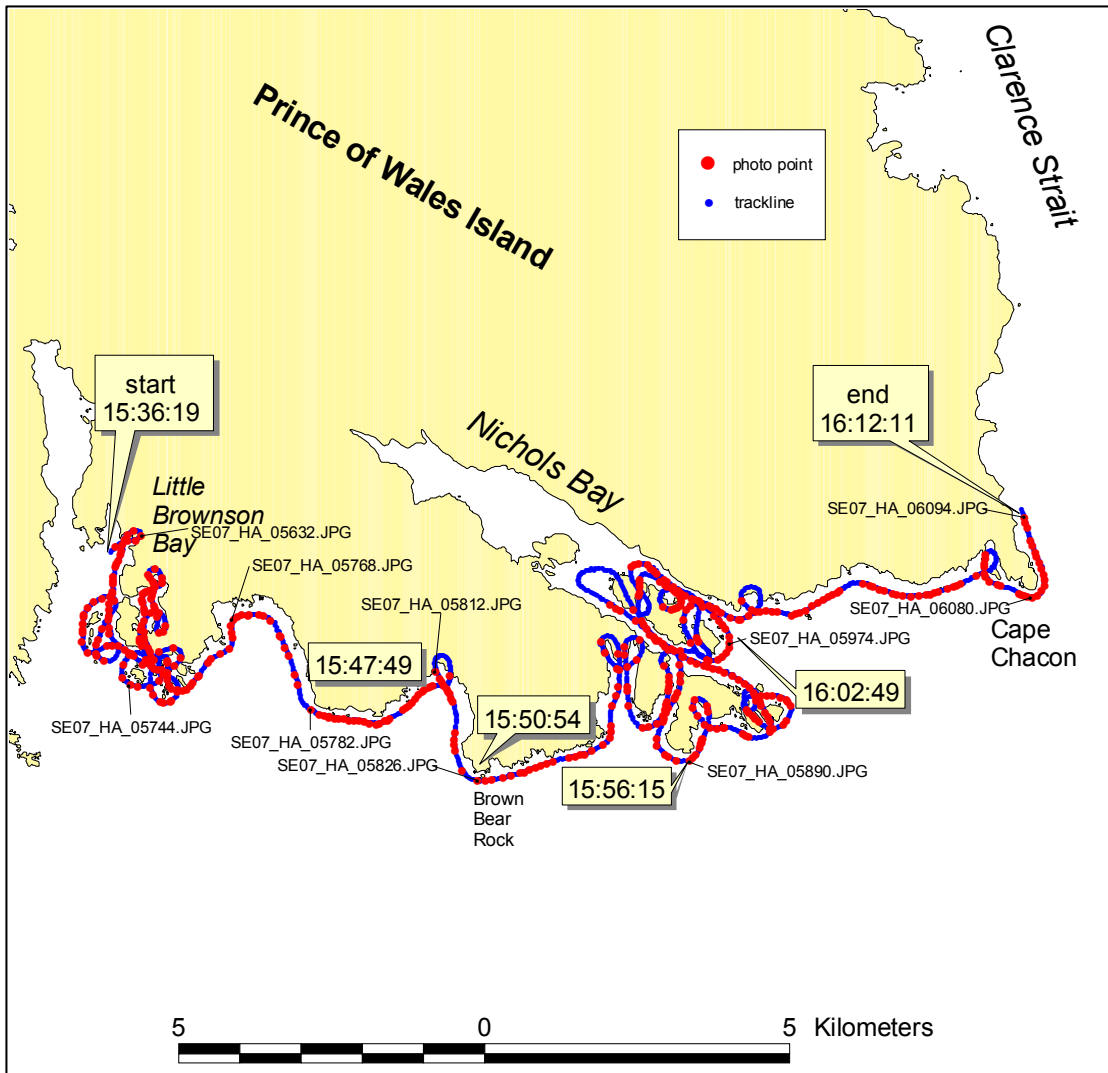
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Foggy but clearing.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:15:47	North of Green inlet, View Cove	SE07_HA_05092
17:20:51	Head of View Cove	SE07_HA_05180
17:26:24	Reef Point	SE07_HA_05258
17:33:13	Eolus Point	SE07_HA_05370
17:41:19	Head of Breezy Bay	SE07_HA_05462
17:48:16	Boreas Point	SE07_HA_05546
17:55:13	North side Farallon Bay	SE07_HA_05628



SE07\_DL\_10

16 July 2007

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_10

**General Location:** Southern tip of POW, Little Brownson Bay to Cape Chacon

**Date:** 16 July 2007

**Time Start:** 153619 (UTC) (073619 ADT)

**Fuel Break:** none

**Time Stop:** 161211 (UTC) (081211 ADT)

**Tape Length:** 39:32

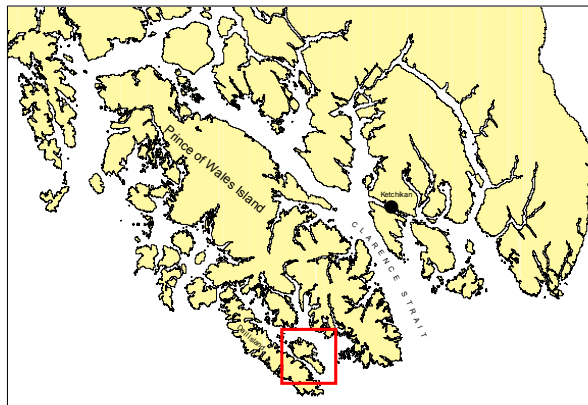
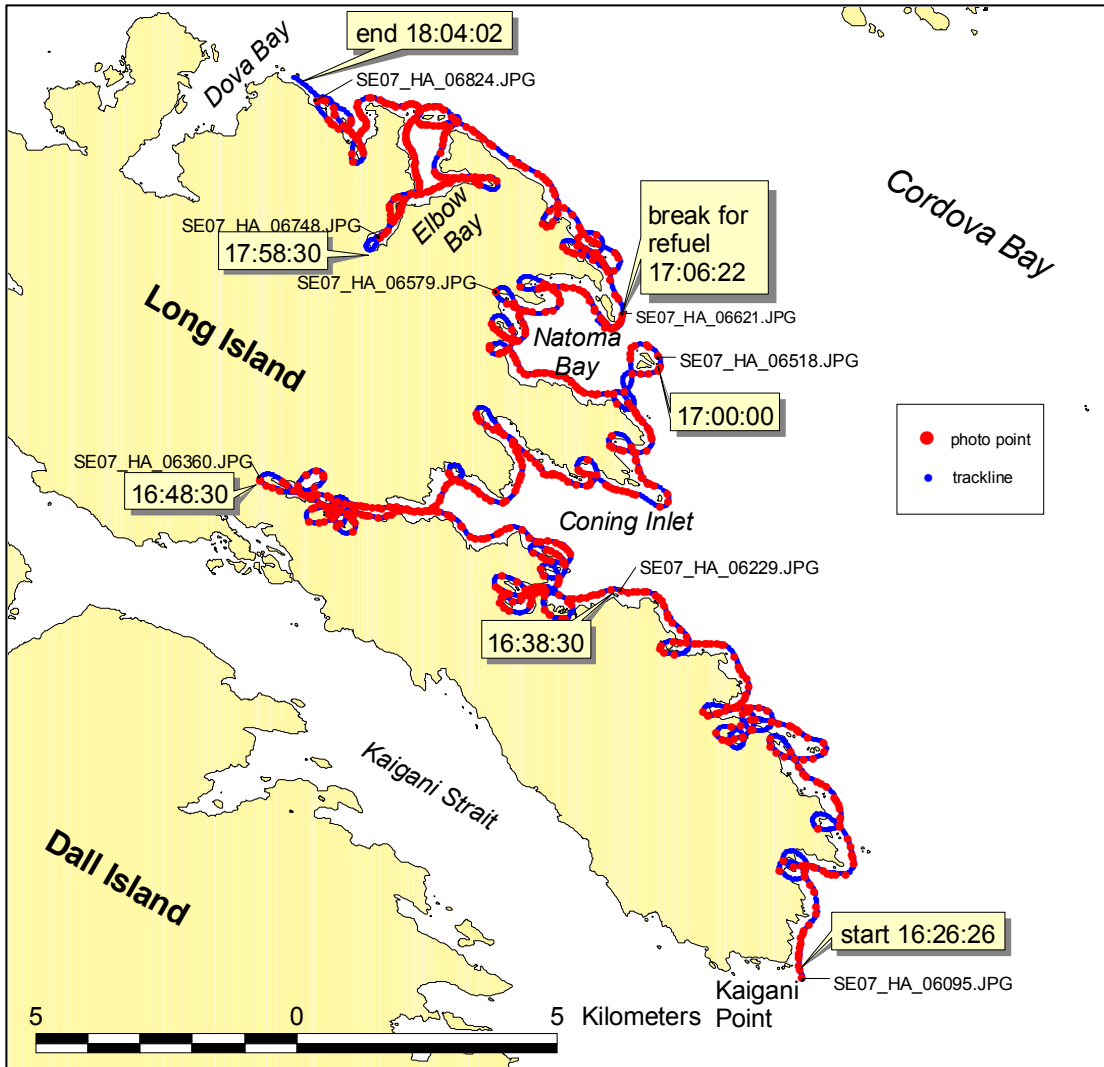
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Fog, low ceiling, gusting SE

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:36:42	Little Brownson Bay	SE07_HA_05632
15:50:54	Brown Bear Rock	SE07_HA_05826
15:56:15	Bean Island	SE07_HA_05890
16:02:49	Islands at entrance Nichols Bay	SE07_HA_05974
16:11:23	Cape Chacon	SE07_HA_06080



**SE07\_DL\_11**  
**16 July 2007**



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_11

**General Location:** East side of Long Island, Kaigani Point to Dova Bay

**Date:** 16 July 2007

**Time Start:** 162626 (UTC) (082636 ADT)

**Fuel Break:** 170622 to 174916

**Time Stop:** 180402 (UTC) (100402 ADT)

**Tape Length:** 54:40

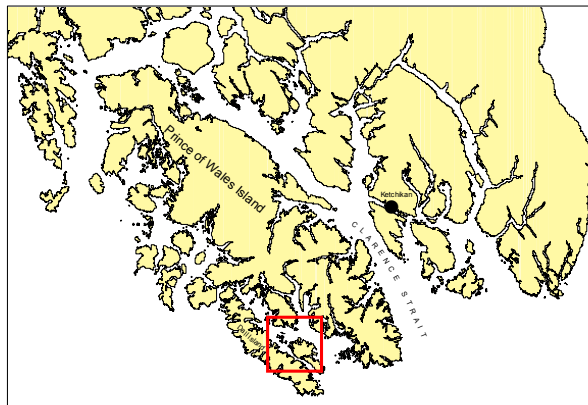
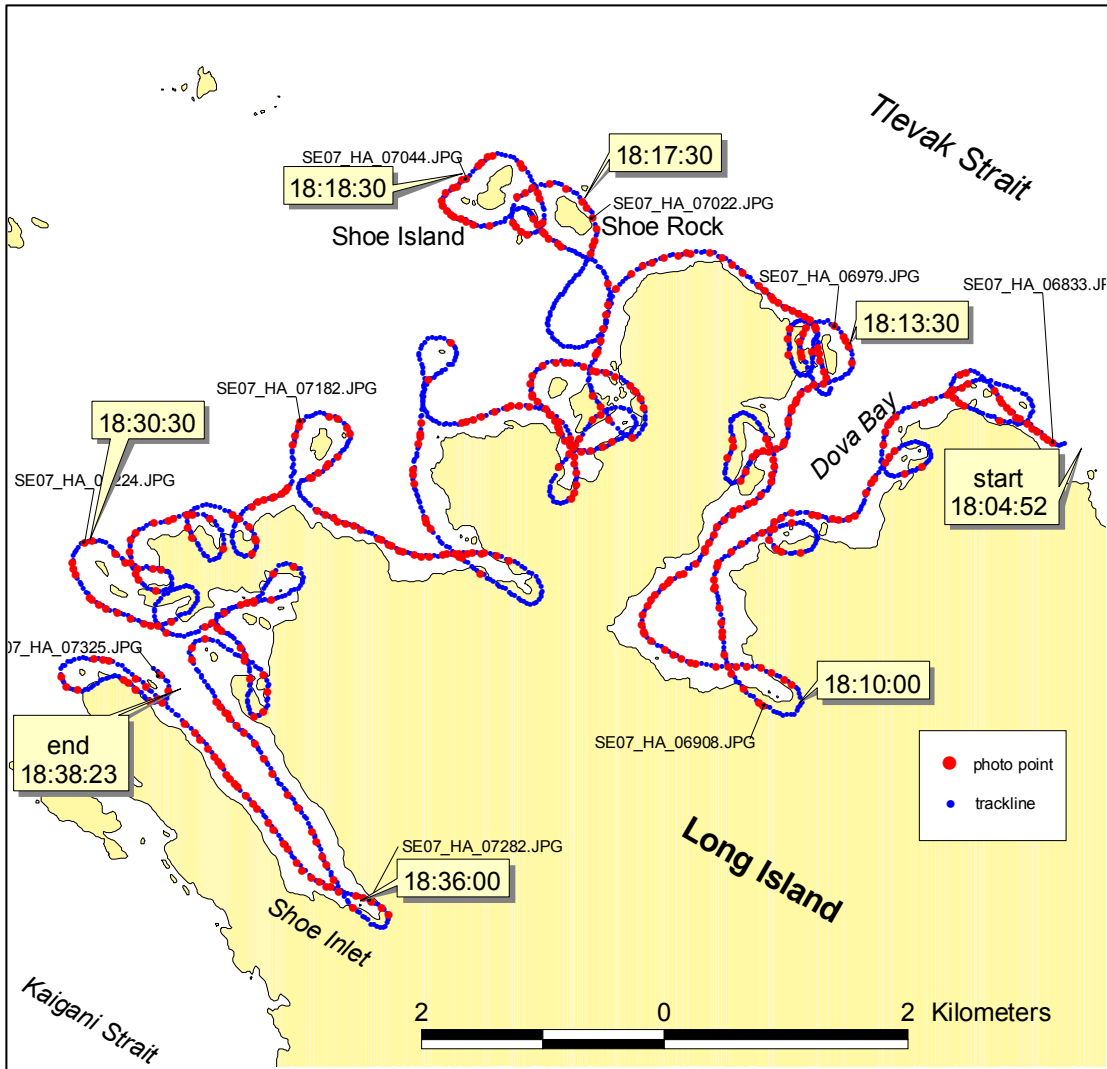
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Fog, very low ceiling

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:26:26	East of Kaigani Point, Long Island	SE07_HA_06095
16:38:34	South side Coning Inlet	SE07_HA_06229
16:48:21	Head of Coning Inlet	SE07_HA_06360
17:00:09	Islets entrance to Natoma Bay	SE07_HA_06518
17:03:58	Head of Natoma Bay	SE07_HA_06579
17:06:22	Refuel at Grace Harbor	
17:49:16	Resume at Islet NE of Natoma Bay	SE07_HA_06621
17:58:38	Head of Elbow Bay	SE07_HA_06748
18:02:42	East of Dova Bay	SE07_HA_06824



**SE07\_DL\_12**  
**16 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_12

**General Location:** East side and north tip of Long Island to Shoe Inlet.

**Date:** 16 July 2007

**Time Start:** 180452 (UTC) (100452 ADT)

**Fuel Break:** none

**Time Stop:** 183825 (UTC) (103825 ADT)

**Tape Length:** 33:33

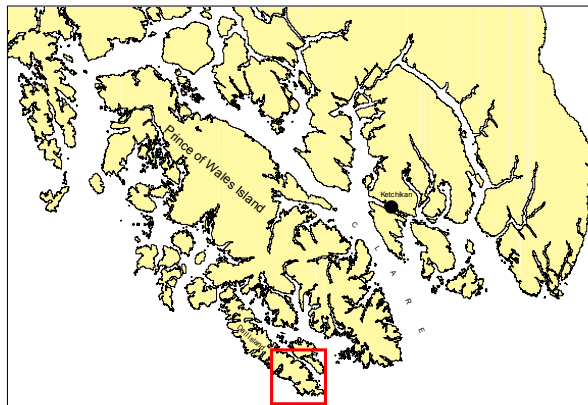
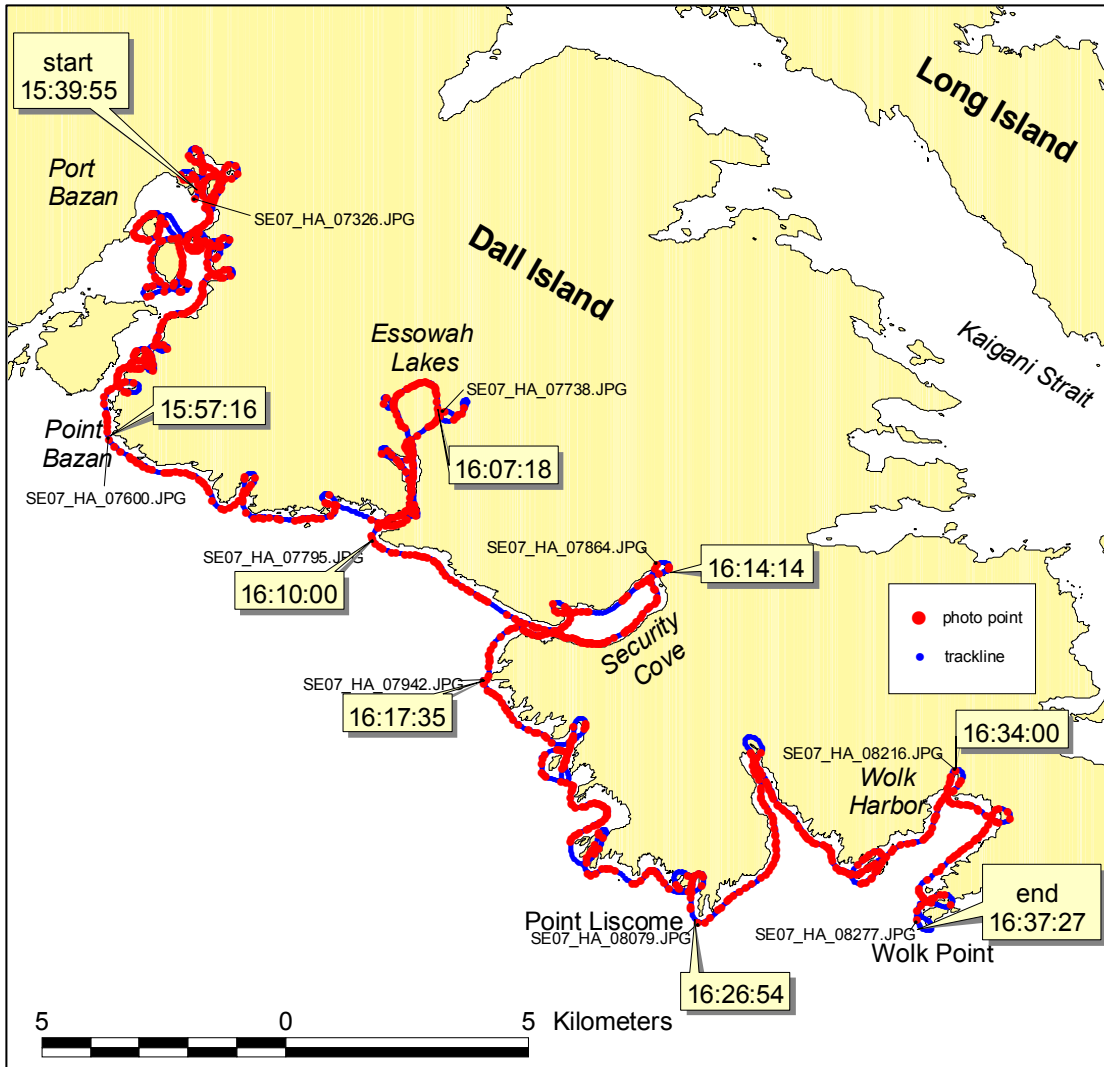
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Fog, very low ceiling

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
18:04:52	East of Dova Bay	SE07_HA_06833
18:09:47	Head of Dova Bay	SE07_HA_06908
18:13:38	Islet at entrance Dova Bay	SE07_HA_06979
18:17:20	Shoe Rock	SE07_HA_07022
18:18:32	Shoe Island	SE07_HA_07044
18:30:30	Islet north of entrance Shoe Inlet	SE07_HA_07224
18:35:57	Head of Shoe Inlet	SE07_HA_07282
18:38:23	West side entrance Shoe Inlet	SE07_HA_07325



**SE07\_DL\_13**

**17 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_13

**General Location:** West coast of Dall Island, Port Bazan to Wolk Harbor

**Date:** 17 July 2007

**Time Start:** 153955 (UTC) (073955 ADT)

**Fuel Break:** none

**Time Stop:** 163727 (UTC) (083727 ADT)

**Tape Length:** 57:32

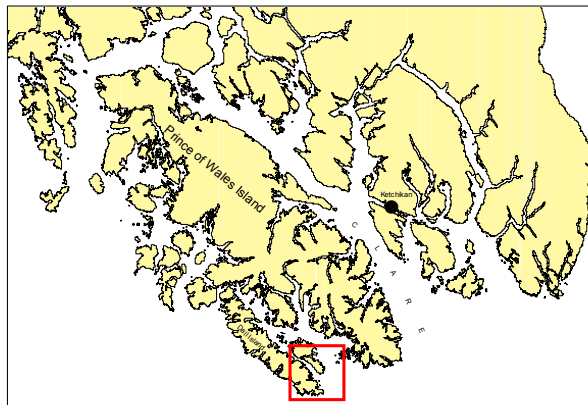
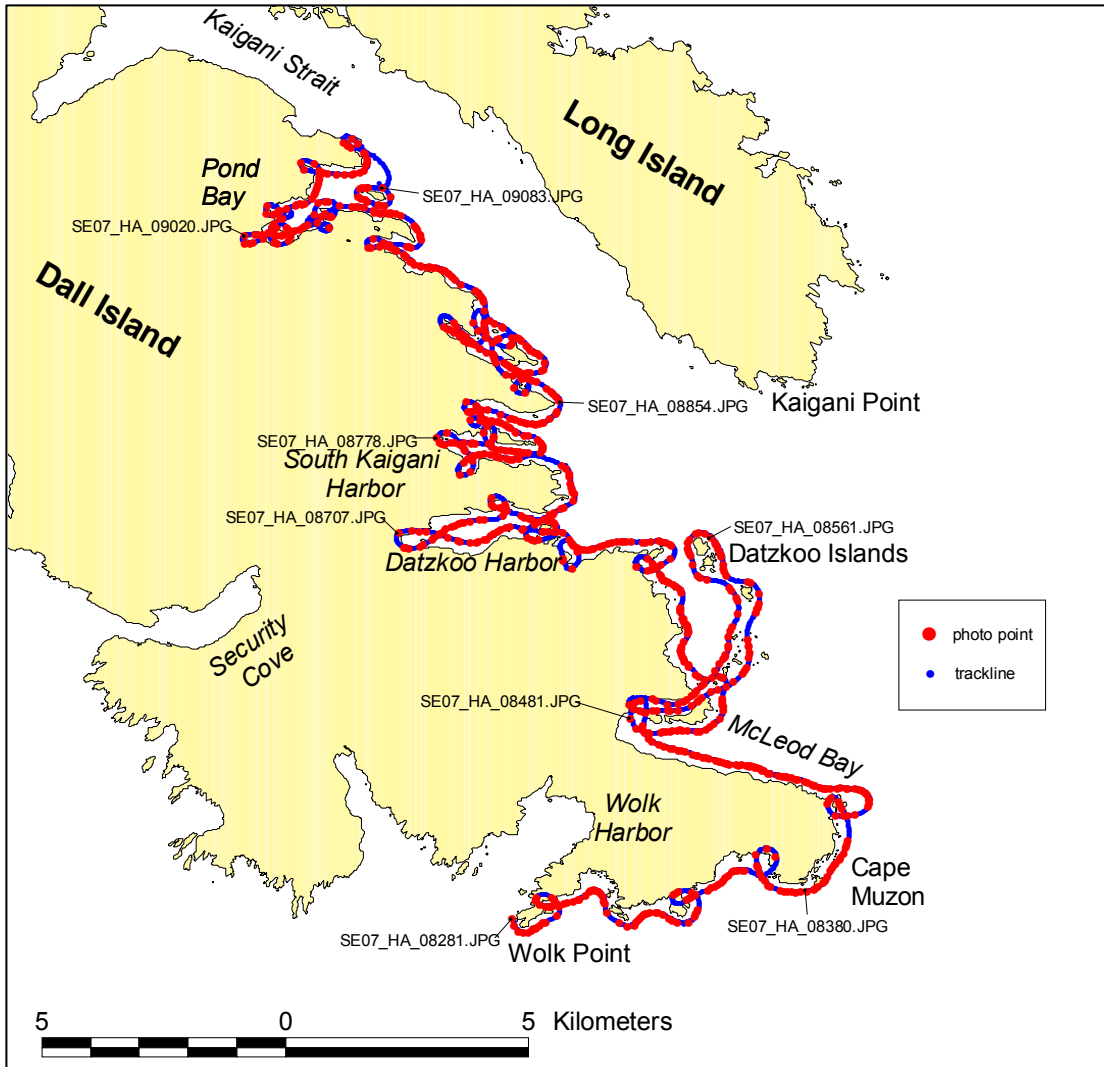
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Low Ceiling then clearing

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:39:55	Head of Port Bazan, west Dall Island	SE07_HA_07326
15:57:16	Point Bazan	SE07_HA_07600
16:07:18	Essowah Lakes	SE07_HA_07738
16:10:00	Essowah Point	SE07_HA_07795
16:14:14	Head of Security Cove	SE07_HA_07864
16:17:35	Security Point	SE07_HA_07942
16:26:54	Liscome Point	SE07_HA_08079
16:34:01	Head of Wolk Harbor	SE07_HA_08216
16:37:27	Wolk Point	SE07_HA_08277



**SE07\_DL\_14**  
**17 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_14

**General Location:** Southwest coast of Dall Island, Wolk Harbor to East coast of Dall, Pond Bay

**Date:** 17 July 2007

**Time Start:** 163828 (UTC) (083828ADT)

**Fuel Break:** none

**Time Stop:** 173056 (UTC) (093056 ADT)

**Tape Length:** 52:28

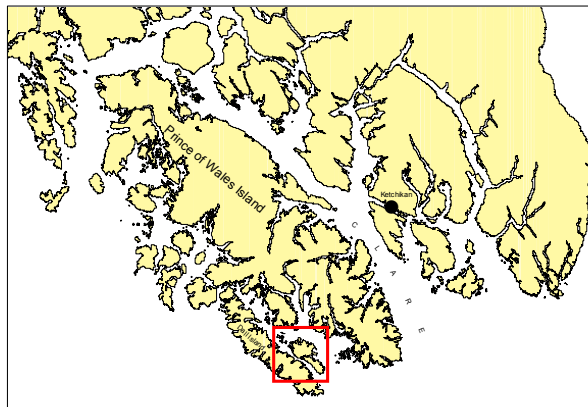
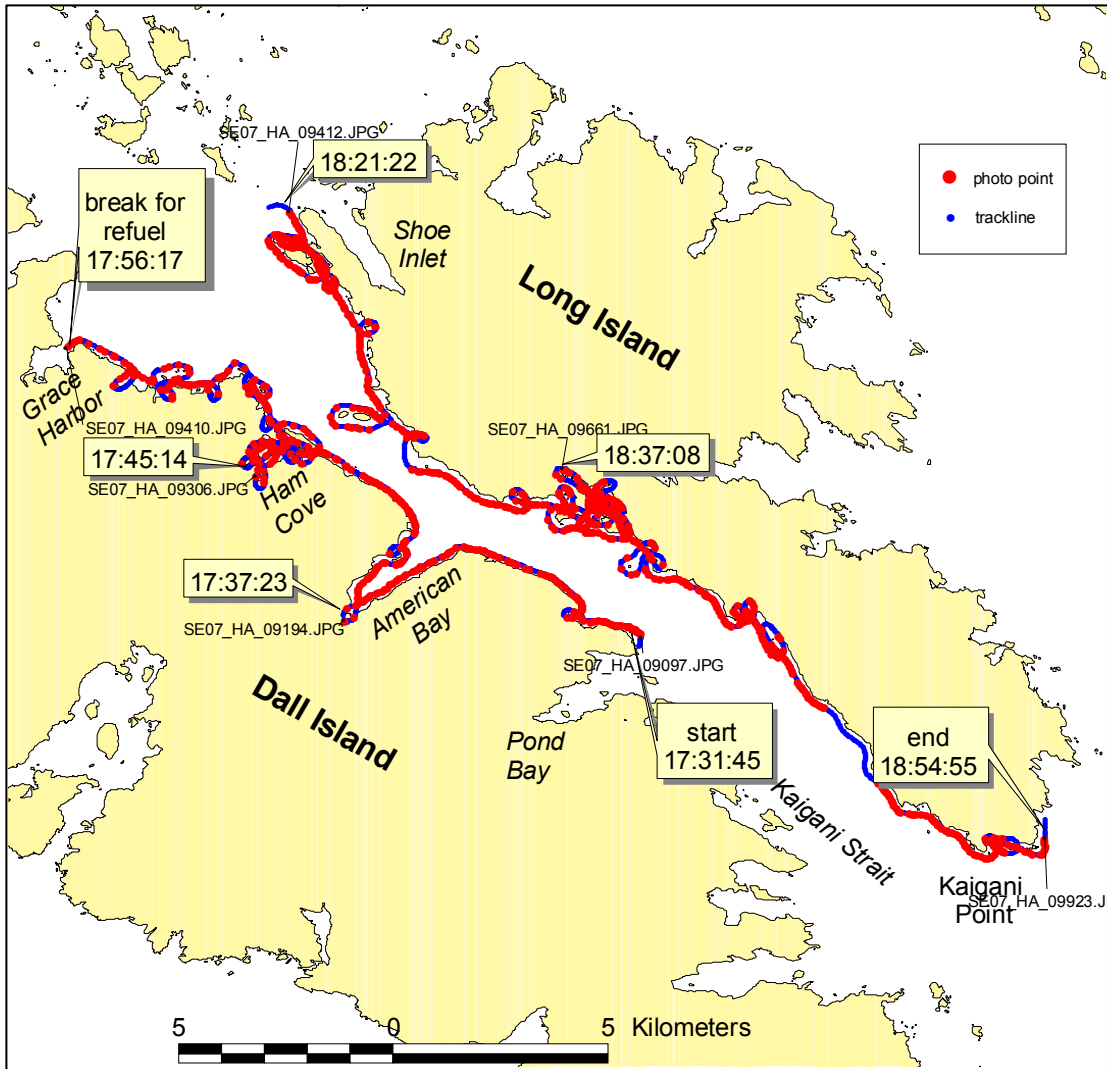
**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Clear skies, sunny

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:38:28	Wolk Point, south tip Dall Island	SE07_HA_08281
16:44:22	Cape Muzon	SE07_HA_08380
16:49:11	Head of McLeod Bay	SE07_HA_08481
16:54:32	Datzkoo Island group	SE07_HA_08561
17:03:47	Head of Datzkoo Harbor	SE07_HA_08707
17:08:47	Head of South Kaigani Harbor	SE07_HA_08778
17:13:14	Point north of North Kaigani Harbor	SE07_HA_08854
17:24:37	Head of Pond Bay	SE07_HA_09020
17:29:53	Islet entrance to Pond Bay	SE07_HA_09083



**SE07\_DL\_15**  
**17 July 2007**



**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_15

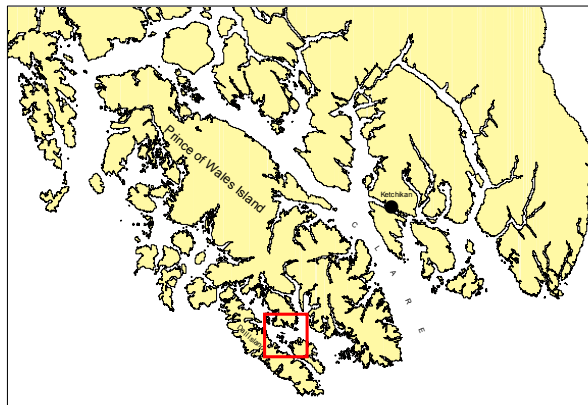
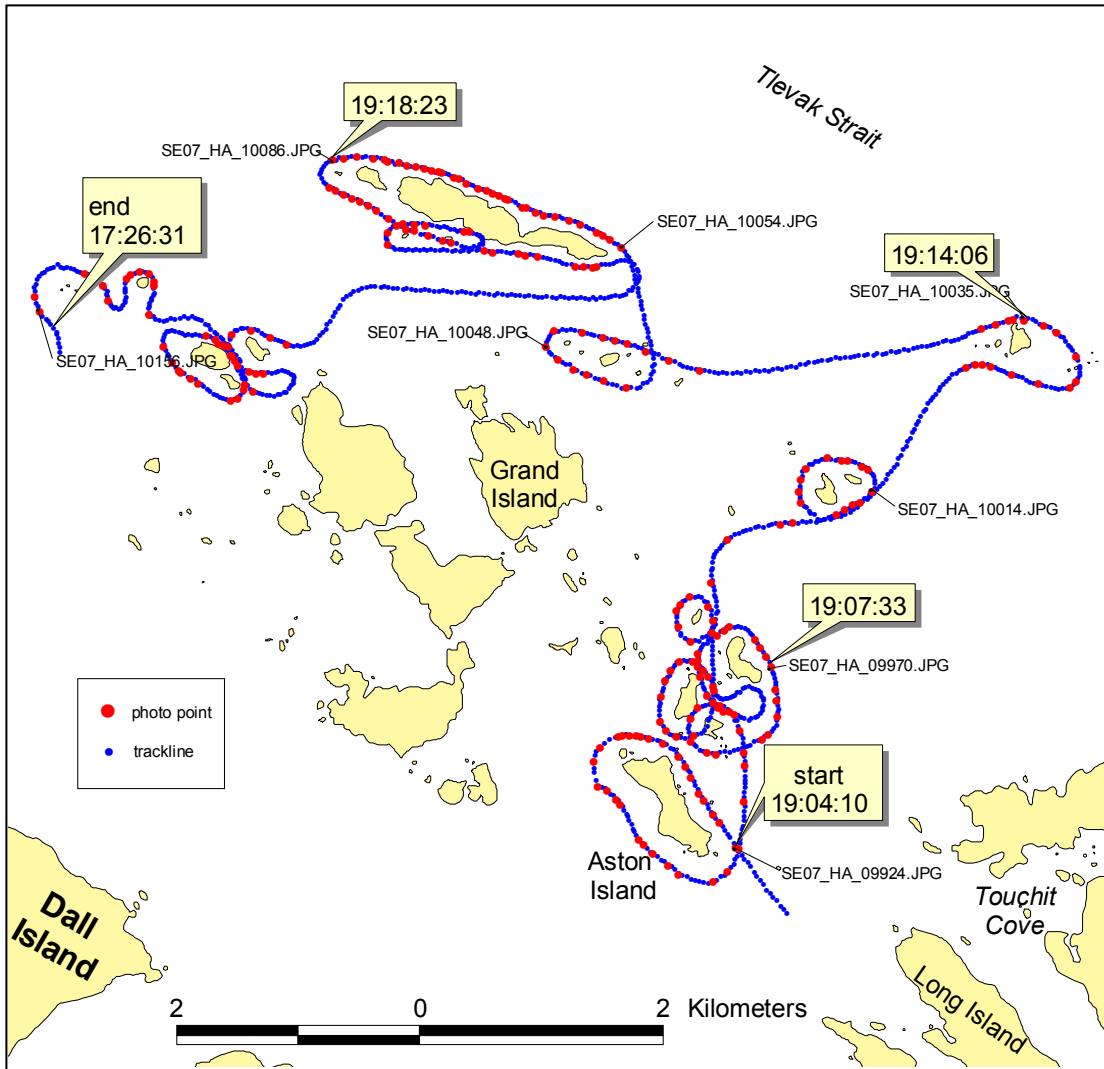
**General Location:** East coast of Dall, Pond Bay to Grace Harbor, West coast of Long

Island

**Date:** 17 July 2007  
**Time Start:** 173145 (UTC) (093145 ADT)  
**Fuel Break:** 175617 to 182121  
**Time Stop:** 185455 (UTC) (105455 ADT)  
**Tape Length:** 58:04  
**Geo:** Borecky  
**Bio:** Anderson  
**Nav:** Ward

**Weather:** Clear skies, sunny

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:31:45	North Point, Dall Island	SE07_HA_09097
17:37:23	Head of American Bay	SE07_HA_09194
17:45:14	Head of Ham Cove	SE07_HA_09306
17:56:17	Refuel Grace Harbor, transit to Shoe Inlet	SE07_HA_09410
18:21:22	West tip Shoe Inlet	SE07_HA_09412
18:37:08	Bolles Inlet	SE07_HA_09661
18:54:55	Kaigani Point	SE07_HA_09923



**SE07\_DL\_16**  
**17 July 2007**

**ShoreZone Aerial Video Imaging (AVI) Survey  
Prince of Wales Island, SE Alaska  
July 12-17, 2007**

**Team Dall (DL)  
Tape Log**

**Tape Number:** SE07\_DL\_16

**General Location:** Island group north of Long Island including Aston Island

**Date:** 17 July 2007

**Time Start:** 190410 (UTC) (110410 ADT)

**Fuel Break:** none

**Time Stop:** 192631 (UTC) (112631 ADT)

**Tape Length:** 22:21

**Geo:** Borecky

**Bio:** Anderson

**Nav:** Ward

**Weather:** Clear skies, sunny

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
19:04:10	Aston Island	SE07_HA_09924
19:07:33	Islets north of Aston Island	SE07_HA_09970
19:14:06	Islets NW of Long Island	SE07_HA_10035
19:18:23	Islet N of Grand Island	SE07_HA_10086
19:26:20	Islets NW of group	SE07_HA_10156





Islets off Thorne Head  
SE07\_MM\_00151



View north off Snugg Anchorage  
SE07\_MM\_00311



Stream and delta south of Narrow Point  
SE07\_MM\_00434





Ferry terminal near Hollis (Kasaan Bay)  
SE07\_MM\_01772



Ripples of sand-cobble, Karta Bay (Kasaan Bay)  
SE07\_MM\_01904



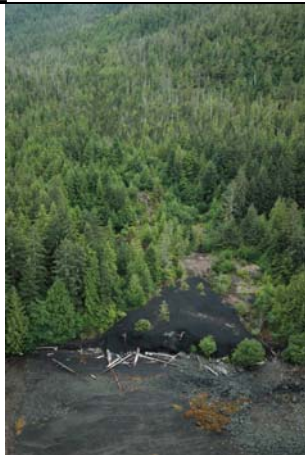
Fish trap, Karta Bay (Kasaan Bay)  
SE07\_MM\_02074

	
<p>Sunrise over Coal Bay (Kasaan Bay) SE07_MM_01201</p>	<p>Twelvemile Arm, Kasaan Bay SE07_MM_01308</p>
	
<p>Sand spit, Karta Bay (Kasaan Bay) SE07_MM_02113</p>	<p>Salt Chuck mine, north Karta Bay (Kasaan Bay) SE07_MM_02319</p>
	
<p>Grindall Passage, southern Kasaan Peninsula SE07_MM_02708</p>	<p>Urchin barrens, Grindall Island (S. Kasaan Pen.) SE07_MM_02777</p>



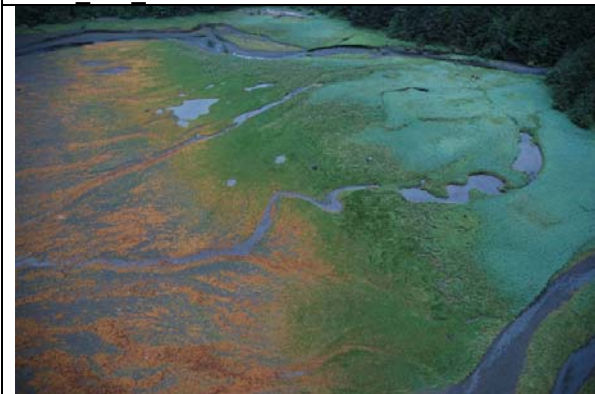
Thorne Bay  
SE07\_MM\_02985

Islet, Thorne Bay  
SE07\_MM\_02898



Estuary, Thorne bay  
SE07\_MM\_02915

Hadley Mine  
SE07\_MM\_03416



Estuary, Windfall Harbor  
SE07\_MM\_03515

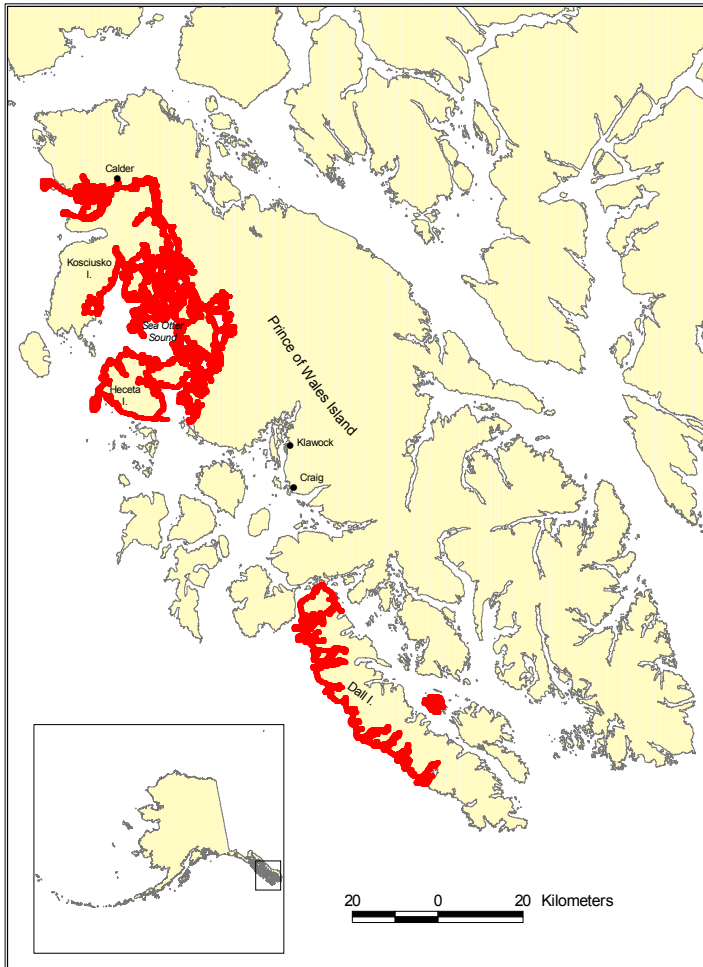




# FLIGHT REPORT

## ShoreZone Aerial Video Imaging (AVI) Survey

### Prince of Wales Island, Alaska, 28 July to 2 August, 2007



Prepared for  
The Nature Conservancy  
Juneau, Alaska



by



## **COASTAL & OCEAN RESOURCES INC.**

214-9865 West Saanich Road, Sidney BC V8L 5Y8 Canada  
ph: 250.655.4035, web: [www.coastalandoceans.com](http://www.coastalandoceans.com), email: [neilb@coastalandoceans.com](mailto:neilb@coastalandoceans.com)



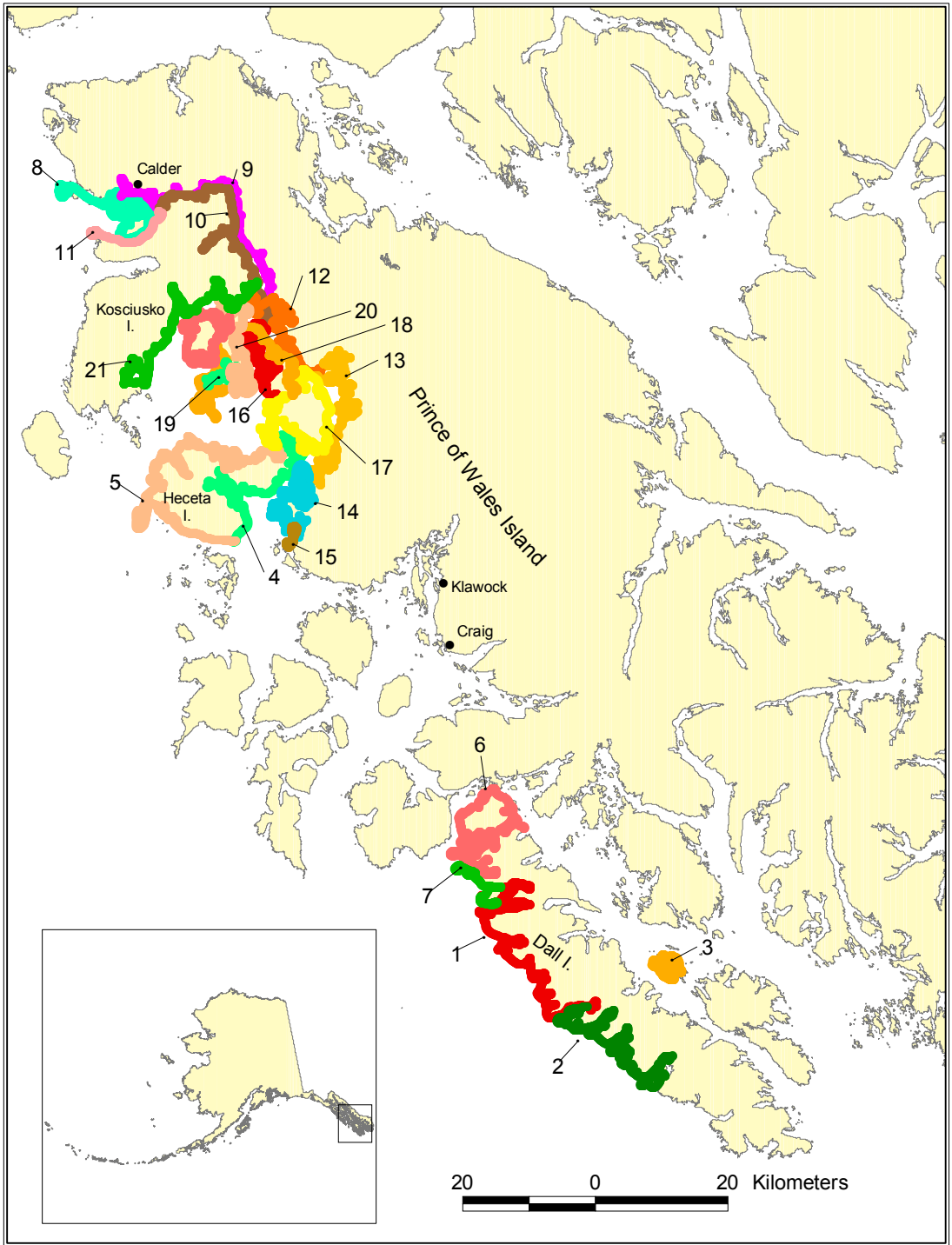
**ShoreZone** is a coastal habitat mapping and classification system in which georeferenced aerial imagery is collected specifically for the interpretation and integration of geological and biological features of the intertidal zone and nearshore environment. Oblique low-altitude aerial video and digital still imagery of the coastal zone is collected during summer low tides (zero tide level or lower), usually from a helicopter flying at <100 m altitude. The flight trackline is recorded at 1-second intervals using electronic navigation software and is continuously monitored in-flight to ensure all shorelines have been imaged. Video and still imagery collected are georeferenced and time-synchronized. Video imagery is accompanied by continuous, simultaneous commentary by a geologist and a biologist aboard the aircraft. The imagery and commentary are later used in the definition of discrete along-shore coastal habitat units and the “mapping” of observed physical, geomorphic, sedimentary, and biological features in those units.

The purpose of this flight report is to summarize the field activities of the ShoreZone aerial video imaging (AVI) survey conducted in Prince of Wales Island, Alaska during the low-tide window of July/August 2007. The survey was conducted by Coastal & Ocean Resources Inc. (CORI, Sidney, British Columbia) under contract to The Nature Conservancy of Juneau, Alaska. A coastal ecologist was provided from Archipelago Marine Research Ltd. (AMR) Table 1 provides a summary of crew affiliations and responsibilities. The aircraft used in this survey was a Bell 206 Jet Ranger chartered from Coastal Helicopters in Juneau, Alaska.

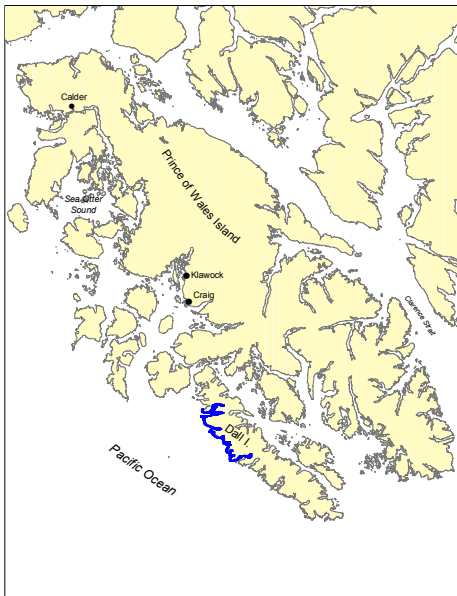
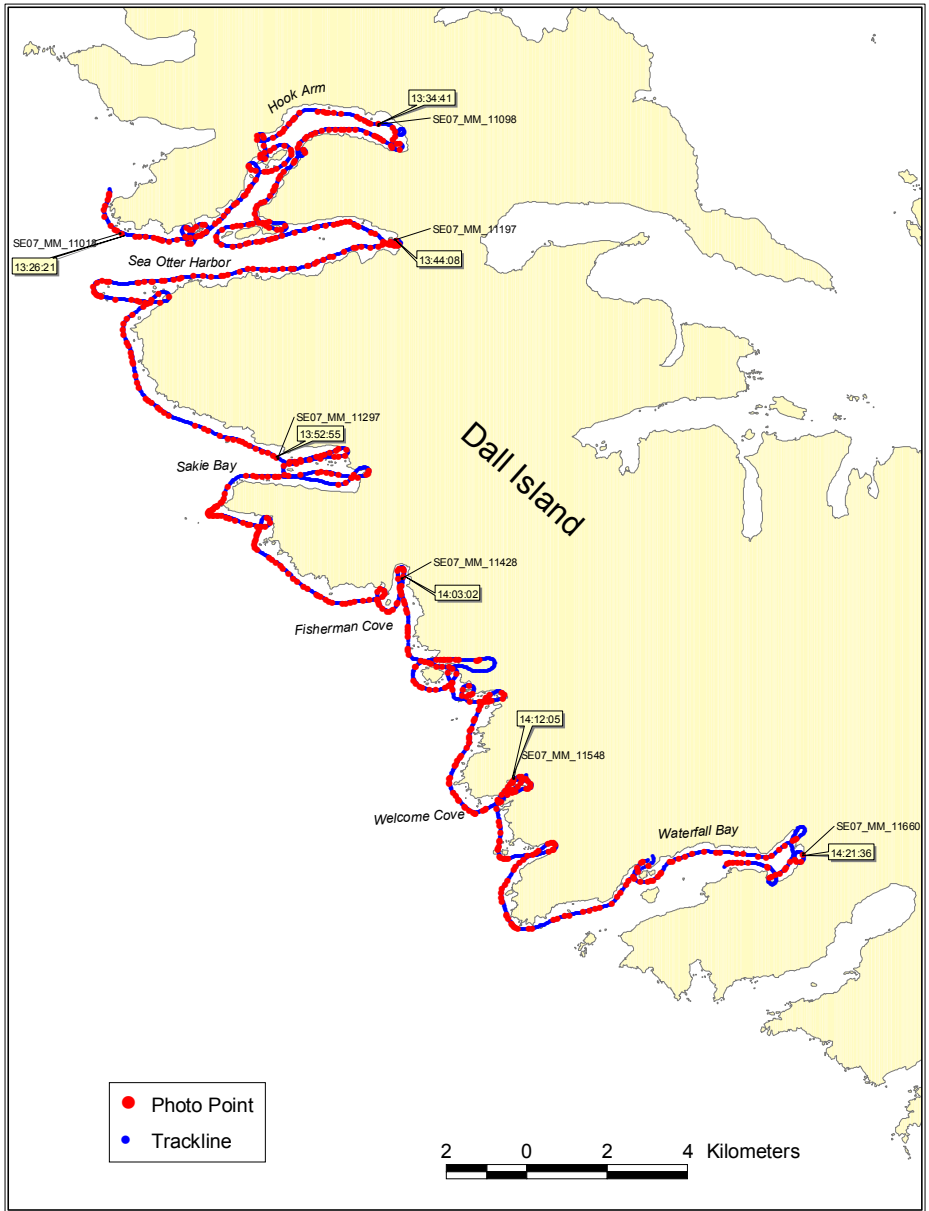
The length of shoreline imaged during the survey was **1,579 km** (Title page shows a summary of the 2007 TNC survey). The tables and figures on the following pages summarize, by video tape number, the extent and location of the AVI data and imagery collected. Maps for each tape are annotated with representative geographic names, trackline times (in hh:mm:ss UTC), and photo numbers. UTC time is imprinted on video imagery (provided on DVD with this report).

**Table 1 Prince of Wales Island AVI Flight Personnel and Responsibilities  
(July/August 07)**

<b>Crew Member</b>	<b>Individual / Affiliation</b>	<b>Responsibilities</b>
<i>Geomorphologist/ Navigator</i>	Neil Borecky CORI, Sidney BC	videography, geologic commentary, post-flight data processing
<i>Geomorphologist/ Navigator</i>	Kalen Morrow CORI, Sidney BC	videography, geologic commentary, post-flight data processing
<i>Coastal Ecologist</i>	Mary Morris Archipelago Marine Resources Inc Victoria, BC	digital photography, biologic commentary, post-flight data processing
<i>Pilot</i>	Lewis Hart Coastal Helicopters Juneau, Alaska	pilot



Summary flightline map showing the location and extent of specific videotapes/DVDs for the July/August 2007 Team Sea Otter Sound survey.



**SE07\_SS\_01**  
**28 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_01

**General Location:** Dall Island; Juel Pt. to Waterfall Bay

**Date:** 28 July 2007

**Time Start:** 132235 (UTC) (052235 ADT)

**Fuel Break:** none

**Time Stop:** 142316 (UTC) (062316 ADT)

**Tape Length:** 57:41

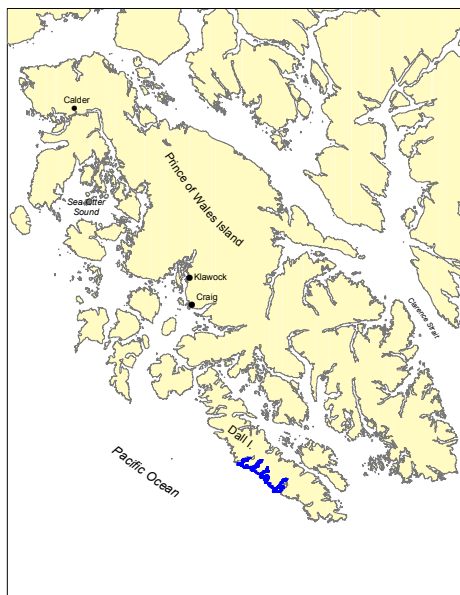
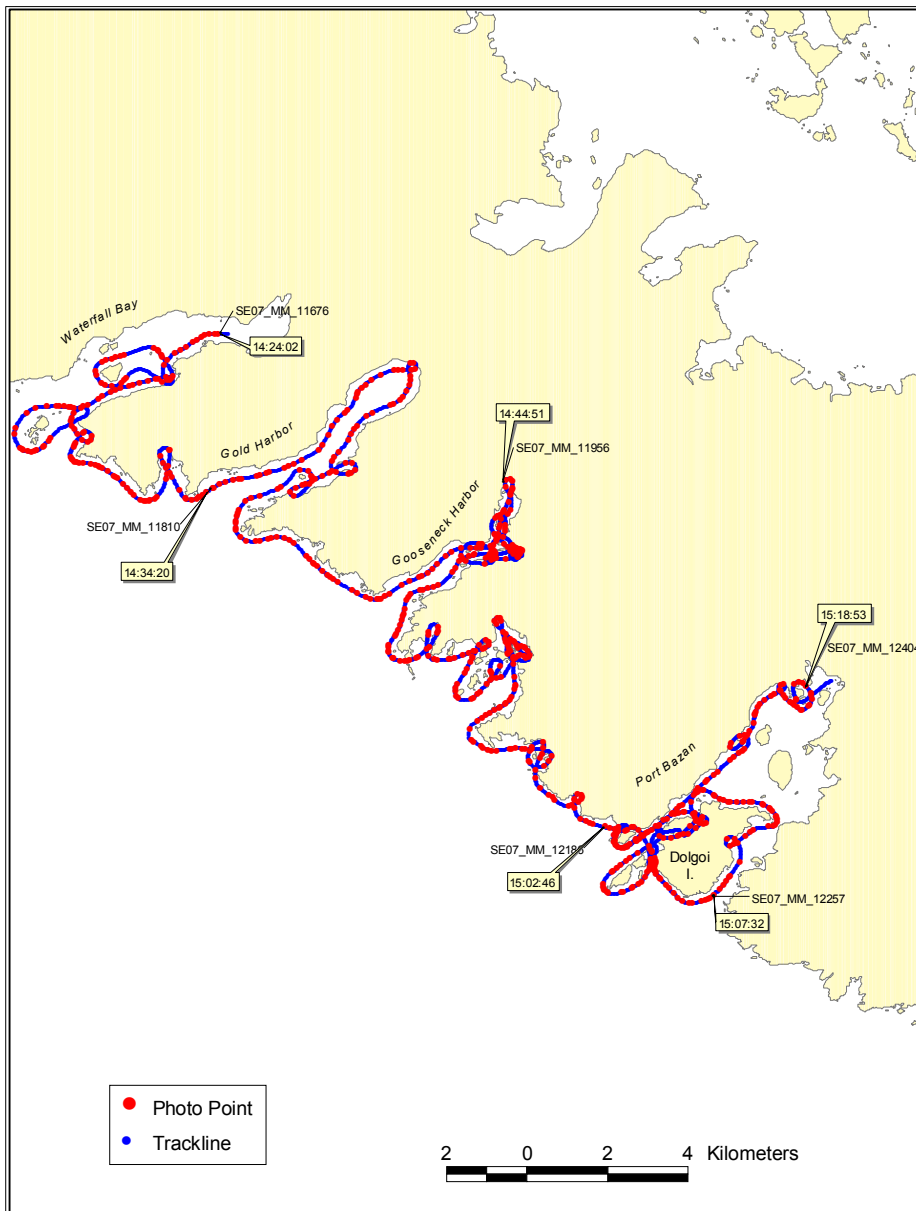
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Overcast and raining

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
13:26:21	Entrance to Sea Otter Harbor	SE07_MM_11018
13:34:41	Head of Hook Arm	SE07_MM_11098
13:44:08	Head of Manhattan Arm, Sea Otter Harbor	SE07_MM_11197
13:52:55	Entrance to Sakie Bay	SE07_MM_11297
14:03:02	Fisherman Cove	SE07_MM_11428
14:12:05	Head of Welcome Cove	SE07_MM_11548
14:21:36	Head of Waterfall Bay	SE07_MM_11660



**SE07\_SS\_02**  
**28 July 2007**



**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_02

**General Location:** Dall Island; Waterfall Bay to Port Bazan

**Date:** 28 July 2007

**Time Start:** 142355 (UTC) ( 062355 ADT)

**Fuel Break:** none

**Time Stop:** 151946 (UTC) ( 071946 ADT)

**Tape Length:** 55:51

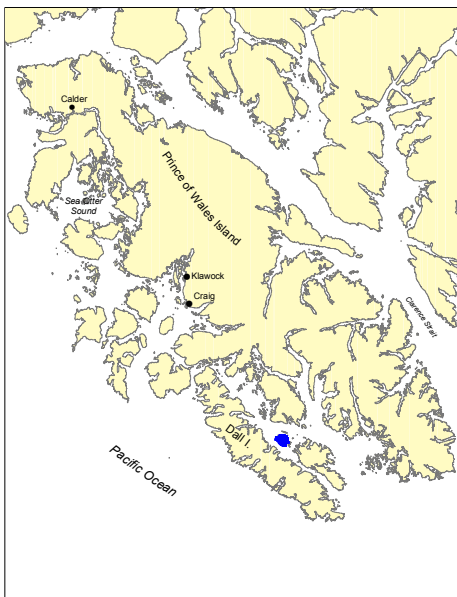
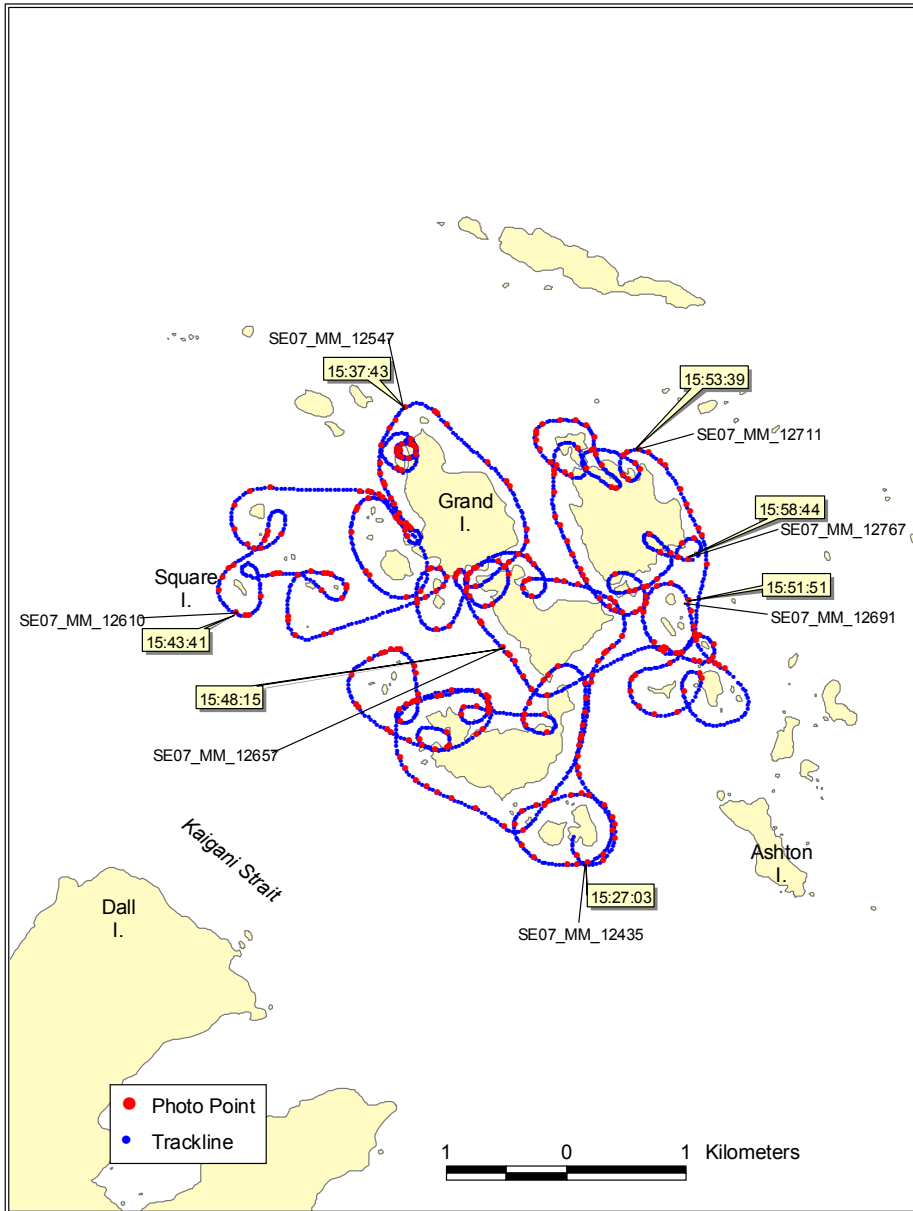
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Overcast and raining

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:24:02	Head of Waterfall Bay	SE07_MM_11676
14:34:20	Mouth of Gold Harbor	SE07_MM_11810
14:44:51	Head of Goosekneck Harbor	SE07_MM_11956
15:02:46	Entering Port Bazan	SE07_MM_12185
15:07:32	SW corner of Dolgoi I.	SE07_MM_12257
15:18:53	Head of Port Bazan	SE07_MM_12404



**SE07\_SS\_03**  
**28 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_03

**General Location:** Kaigani Strait; Grand Island and islets

**Date:** 28 July 2007

**Time Start:** 152535 (UTC) ( 072535 ADT)

**Fuel Break:** none

**Time Stop:** 155905 (UTC) (075905 ADT)

**Tape Length:** 33:30

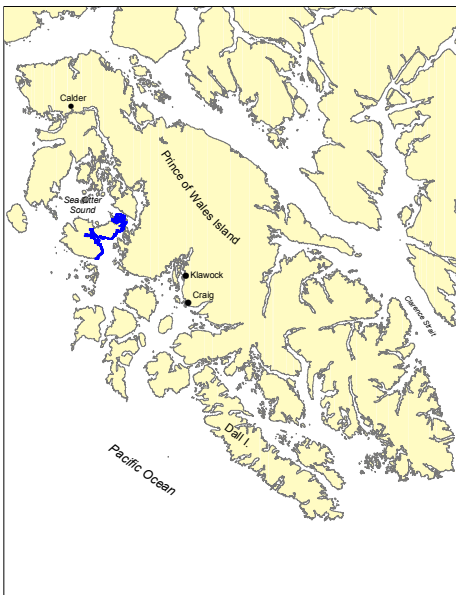
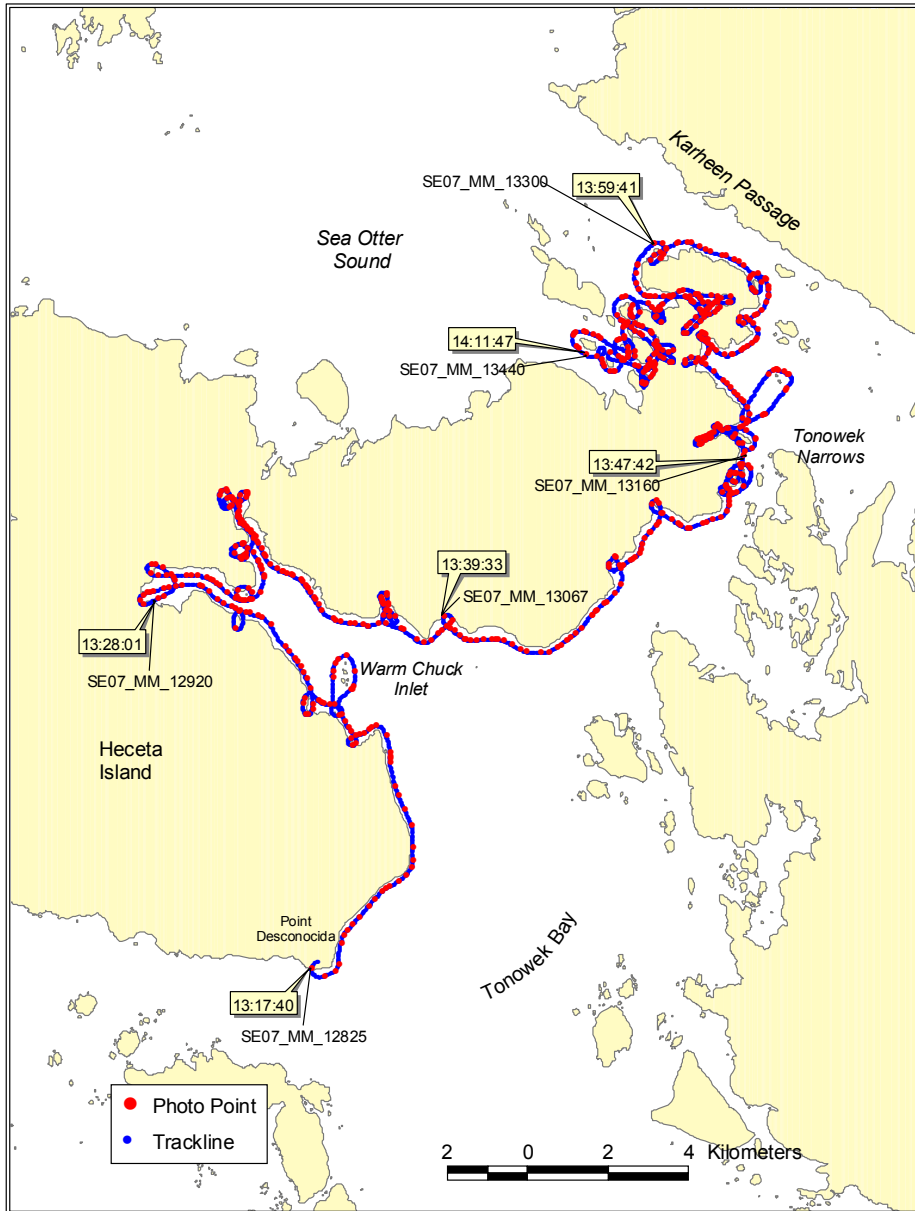
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Overcast and raining

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:27:03	Islands east of Ashton I.	SE07_MM_12435
15:37:43	N tip of Grand I.	SE07_MM_12547
15:43:41	Square I.	SE07_MM_12610
15:48:15	E side of larger island, south of Grand I.	SE07_MM_12657
15:51:51	Small islands east of Grand I.	SE07_MM_12691
15:53:39	N tip of large island east of Grand I.	SE07_MM_12711
15:58:44	S tip of large island east of Grand I.	SE07_MM_12767



**SE07\_SS\_04**  
**29 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_04

**General Location:** Heceta Island; Point Desconocida to Karheen Passage

**Date:** 29 July 2007

**Time Start:** 131734 (UTC) ( 051734 ADT)

**Fuel Break:** none

**Time Stop:** 141516 (UTC) (061516 ADT)

**Tape Length:** 57:38

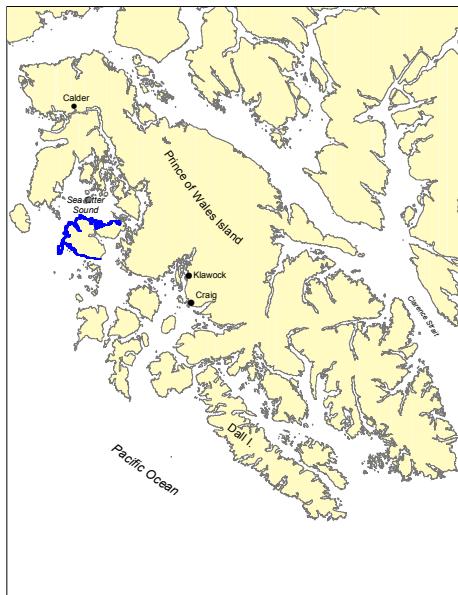
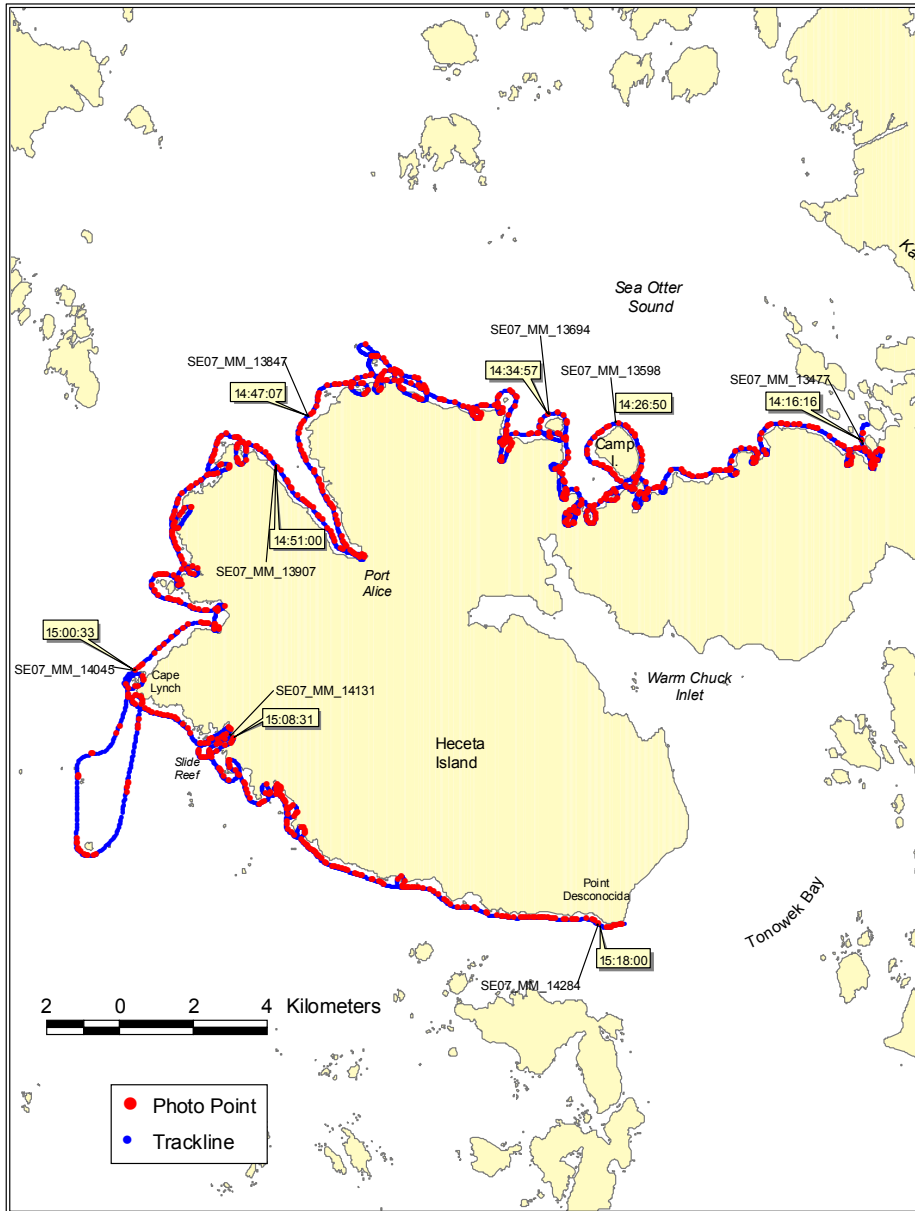
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** High overcast

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
13:17:40	Point Deconocida	SE07_MM_12825
13:28:01	Head of Warm Chuck Inlet	SE07_MM_12920
13:39:33	N entrance to Warm Chuck Inlet	SE07_MM_13067
13:47:42	Tonowek Narrows	SE07_MM_13160
13:59:41	Karheen Passage	SE07_MM_13300
14:11:47	Island just off NE corner of Heceta	SE07_MM_13440



**SE07\_SS\_05**  
**29 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_05

**General Location:** Heceta Island; Karheen Strait, Port Alice to Point Desconocida

**Date:** 29 July 2007

**Time Start:** 141556 (UTC) ( 061556 ADT)

**Fuel Break:** after tape end

**Time Stop:** 151821 (UTC) (071821 ADT)

**Tape Length:** 59:23

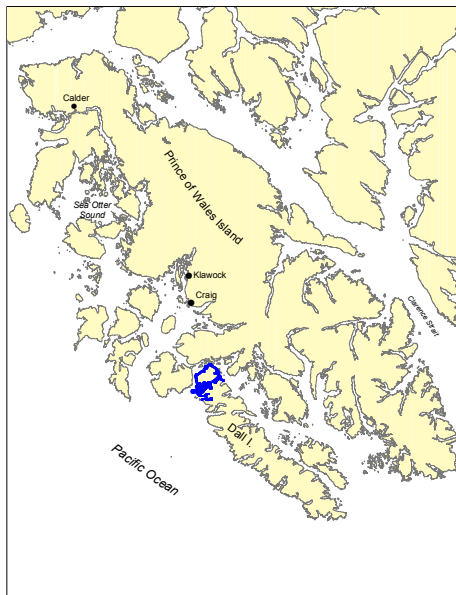
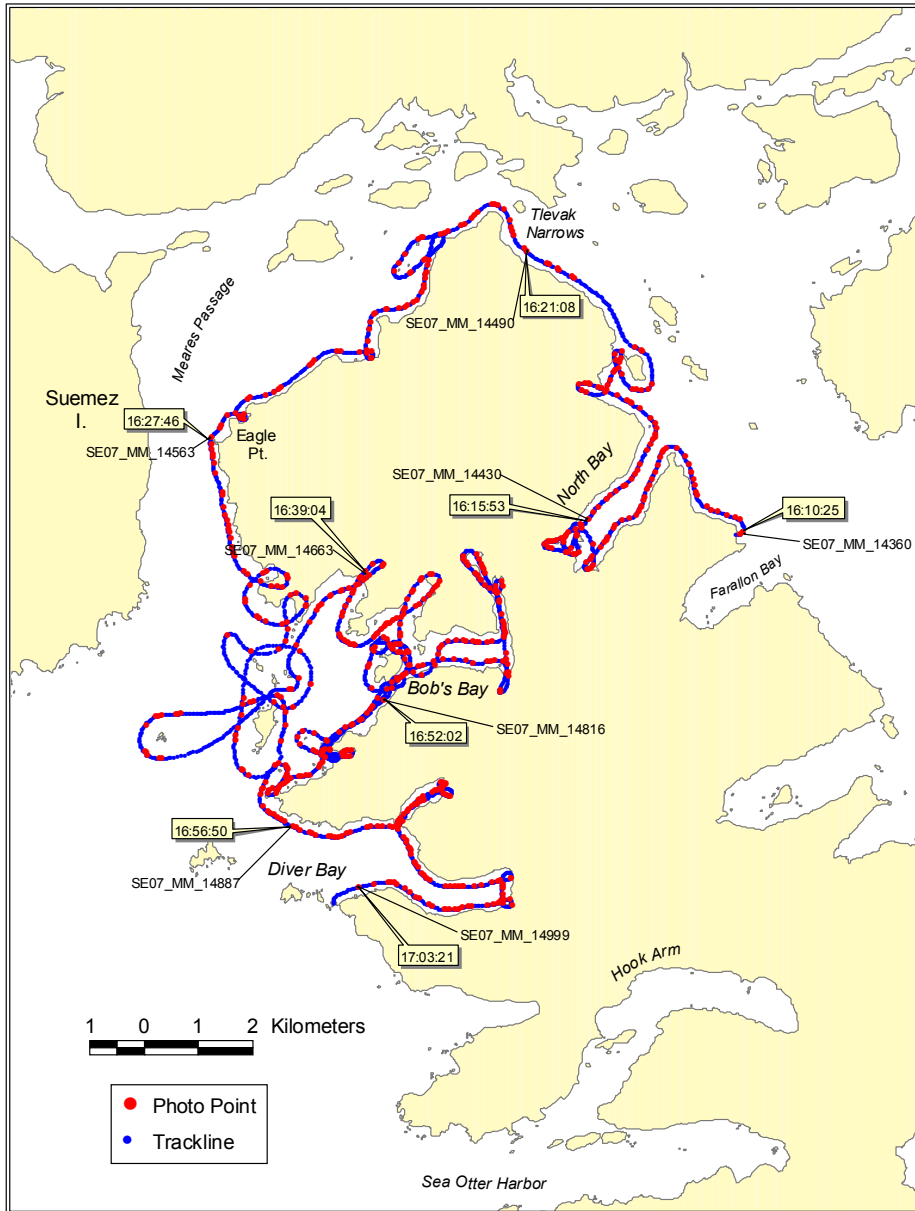
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Overcast and raining

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:16:16	NE corner of Heceta	SE07_MM_13477
14:26:50	N tip of Camp I.	SE07_MM_13598
13:34:57	Small island west of Camp I.	SE07_MM_13694
14:47:07	E entrance to Port Alice	SE07_MM_13847
14:51:00	W entrance to Port Alice	SE07_MM_13907
15:00:33	Cape Lynch	SE07_MM_14045
15:08:31	Slide Reef	SE07_MM_14131
15:18:00	Point Desconocida (Point mystery/unknown)	SE07_MM_14284



**SE07\_SS\_06**  
**29 July 2007**



**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_06

**General Location:** Dall Island: North Bay , Tlevak Narrows to Diver Bay

**Date:** 29 July 2007

**Time Start:** 161021 (UTC) ( 081021 ADT)

**Fuel Break:** none

**Time Stop:** 170338 (UTC) (090338 ADT)

**Tape Length:** 53:15

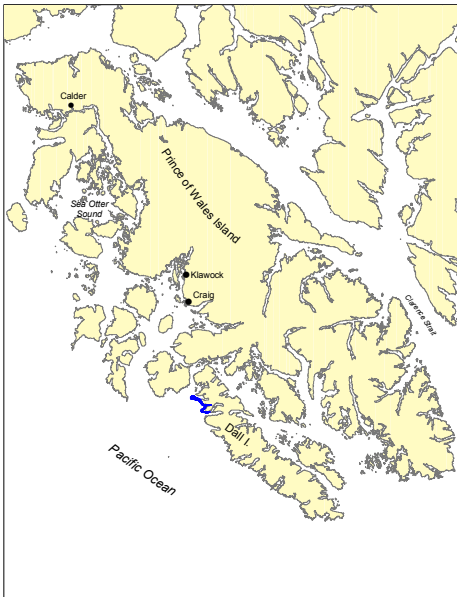
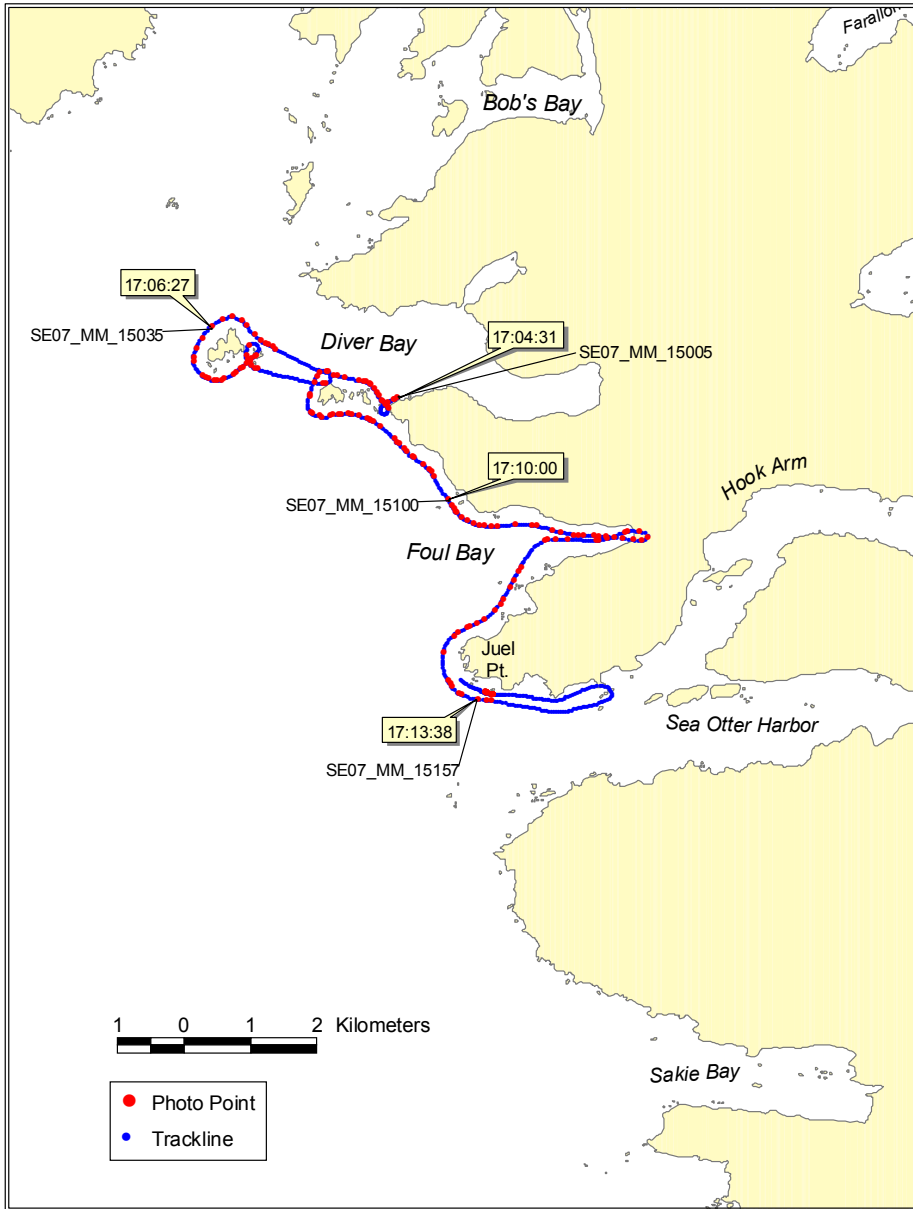
**Geo:** Morrow

**Bio:** Morris

**Nav:** Borecky

**Weather:** Overcast to clearing

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:10:25	N entrance Farallon Bay	SE07_MM_14360
16:15:53	Head of North Bay	SE07_MM_14430
16:21:08	Entering Tlevak Narrows	SE07_MM_14490
16:27:46	Eagle Point, Meares Passage	SE07_MM_14563
16:39:04	Entering Bob's Bay	SE07_MM_14663
16:52:02	S side of Bob's Bay	SE07_MM_14816
16:56:50	N entrance to Diver Bay	SE07_MM_14887
17:03:21	S Entrance to Diver Bay	SE07_MM_14999



**SE07\_SS\_07**  
**29 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_07

**General Location:** Dall Island: Diver Bay to Juel Point

**Date:** 29 July 2007

**Time Start:** 170430 (UTC) ( 090430 ADT)

**Fuel Break:** none

**Time Stop:** 171711 (UTC) (091711 ADT)

**Tape Length:** 12:40

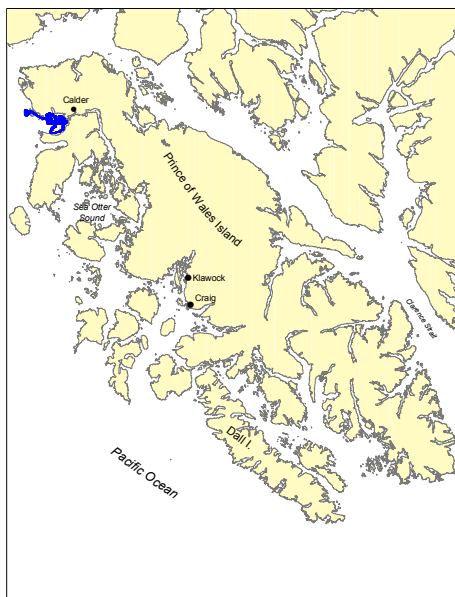
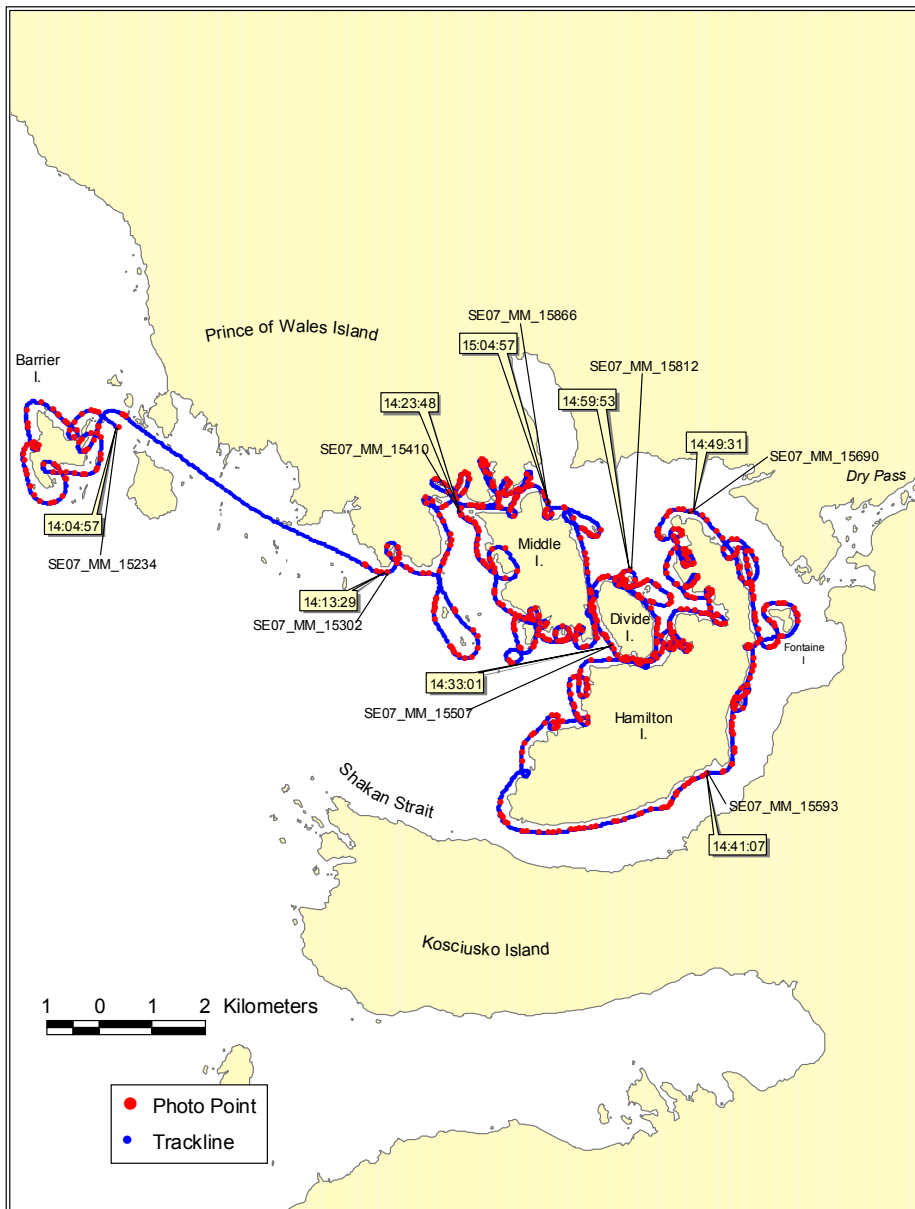
**Geo:** Morrow

**Bio:** Morris

**Nav:** Borecky

**Weather:** Clearing, fair weather

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:04:31	S entrance to Diver Bay	SE07_MM_15005
17:06:27	Islets off Diver Bay	SE07_MM_15035
17:10:00	N entrance to Foul Bay	SE07_MM_15100
17:13:38	Juel Pt.	SE07_MM_15157



**SE07\_SS\_08**  
**30 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_08

**General Location:** Shakan Bay; Barrier I., Middle I., Divide I., Hamilton I.

**Date:** 30 July 2007

**Time Start:** 140457 (UTC) ( 060457 ADT)

**Fuel Break:** none

**Time Stop:** 150532 (UTC) (070532 ADT)

**Tape Length:** 58:01

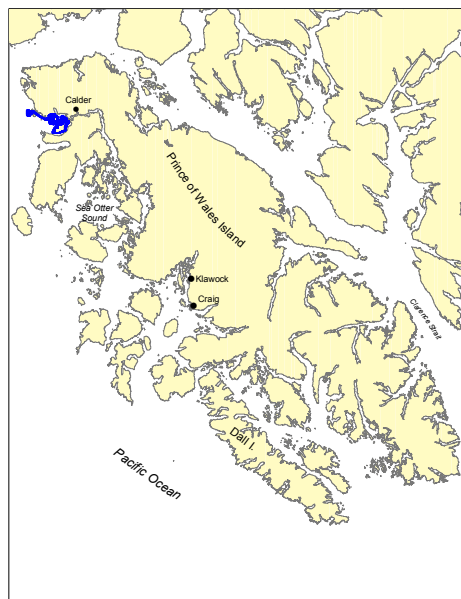
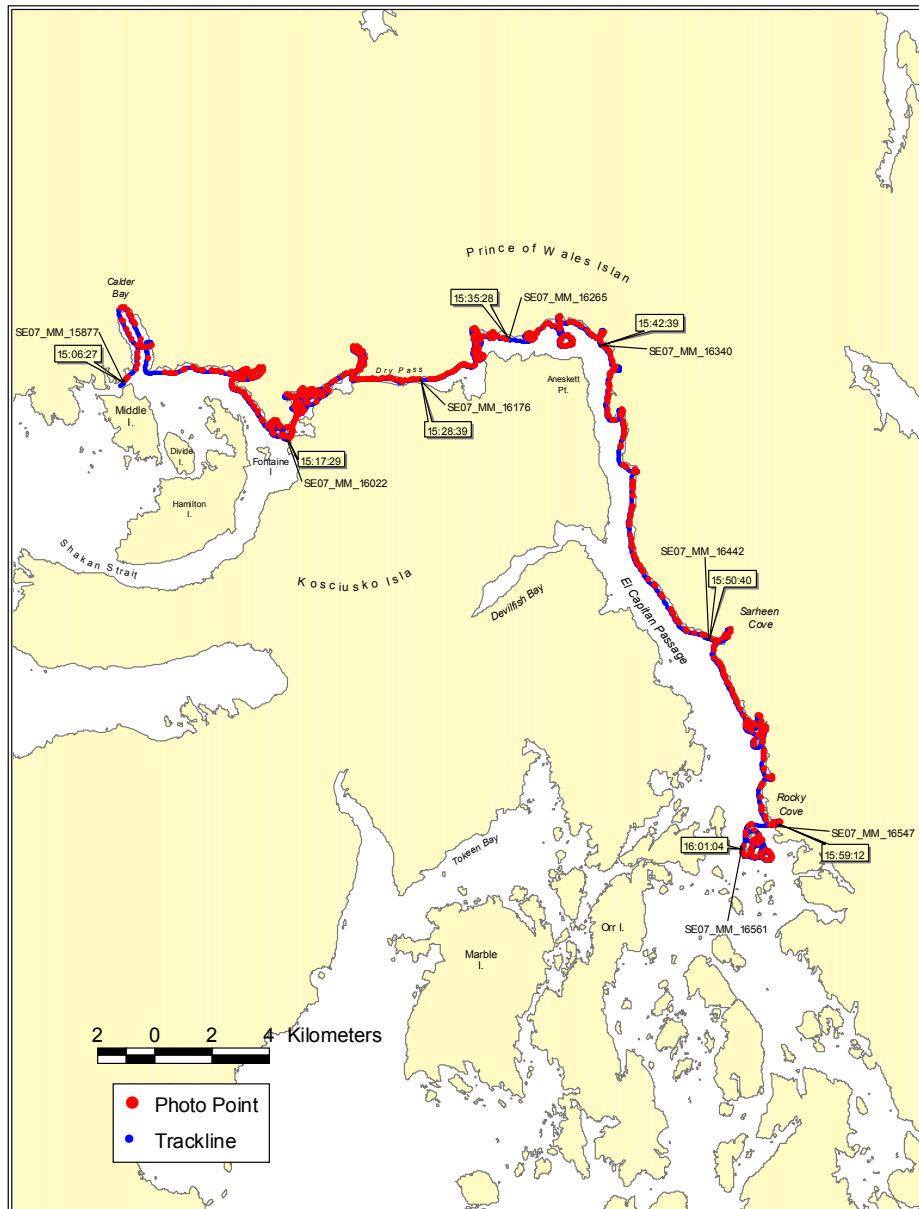
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** High overcast, some foggy portions

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:04:57	Barrier Island	SE07_MM_15234
14:13:29	N entrance to Shakan Bay	SE07_MM_15302
14:23:48	NW side of Middle I.	SE07_MM_15410
14:33:01	E side Divide I.	SE07_MM_15507
14:41:07	S side Hamilton I.	SE07_MM_15593
14:49:31	N side Hamilton I.	SE07_MM_15690
14:59:53	N side Divide I.	SE07_MM_15812
15:04:57	NE corner of Middle I.	SE07_MM_15866



**SE07\_SS\_09**  
**30 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_09

**General Location:** Dry Pass, South-bound El Capitan Passage.

**Date:** 30 July 2007

**Time Start:** 150620 (UTC) ( 070620 ADT)

**Fuel Break:** none

**Time Stop:** 160355 (UTC) (080355 ADT)

**Tape Length:** 57:35

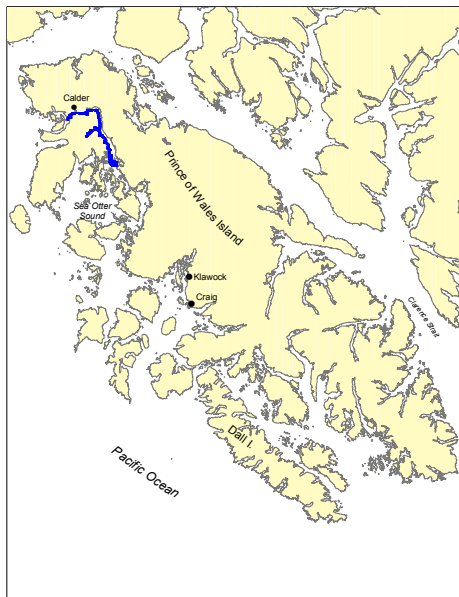
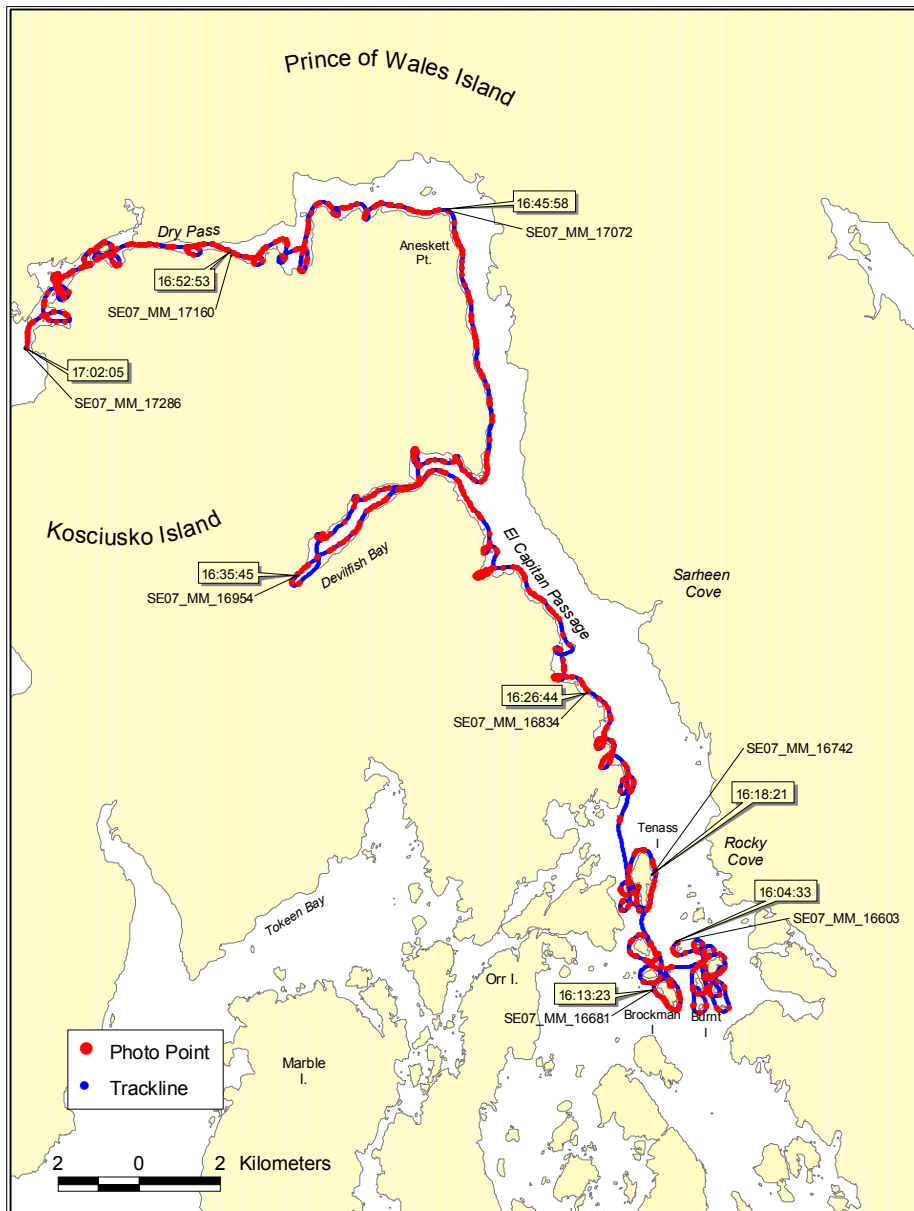
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** High overcast, some foggy portions

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:06:27	W entrance to Calder Bay	SE07_MM_15877
15:17:29	W entrance to Dry Pass	SE07_MM_16022
15:28:39	E entrance to Dry Pass	SE07_MM_16176
15:35:28	Bear Valley Lodge vicinity	SE07_MM_16265
15:42:39	Shoreline opposite Aneskett Pt.	SE07_MM_13640
15:50:40	Sarheen Cove	SE07_MM_16442
15:59:12	Rocky Cove	SE07_MM_16547
16:01:04	Islets west of Rocky Cove	SE07_MM_16561



**SE07\_SS\_10**  
**30 July 2007**



**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_10

**General Location:** Islands west of Clam Cove, North-bound El Capitan Passage.

**Date:** 30 July 2007

**Time Start:** 160432 (UTC) ( 080432 ADT)

**Fuel Break:** none

**Time Stop:** 170206 (UTC) (090206 ADT)

**Tape Length:** 57:34

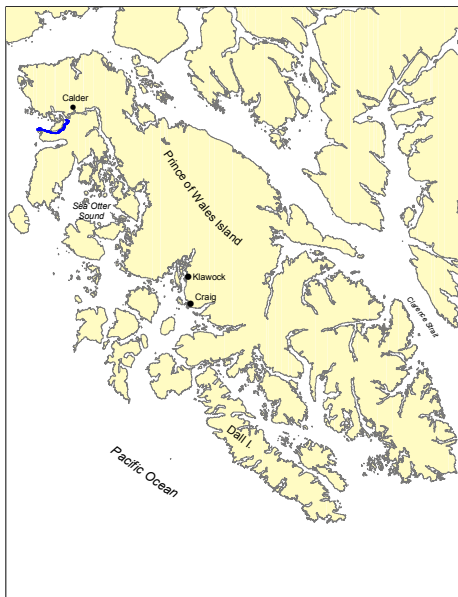
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** High overcast

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:04:33	Islets west of Tunga Inlet	SE07_MM_16603
16:13:23	Brockman I.	SE07_MM_16681
16:18:21	Tenass I.	SE07_MM_16742
16:26:44	Southern El Capitan Passage	SE07_MM_16834
16:35:45	Head of Devilfish Bay	SE07_MM_16954
16:45:58	Aneskett Pt.	SE07_MM_17072
16:52:53	E entrance to Dry Pass	SE07_MM_17160
17:02:05	W entrance to Dry Pass	SE07_MM_17286



**SE07\_SS\_11**  
**30 July 2007**

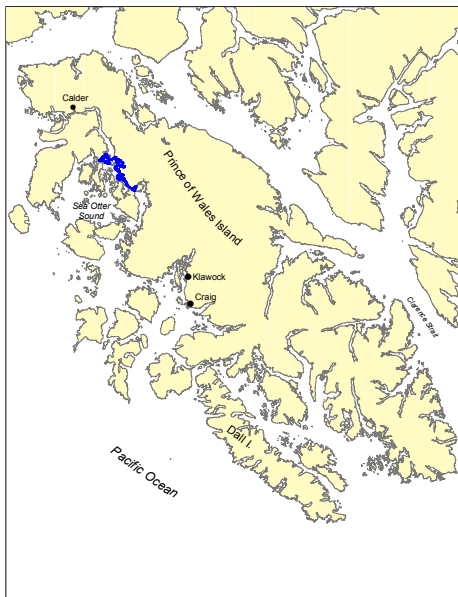
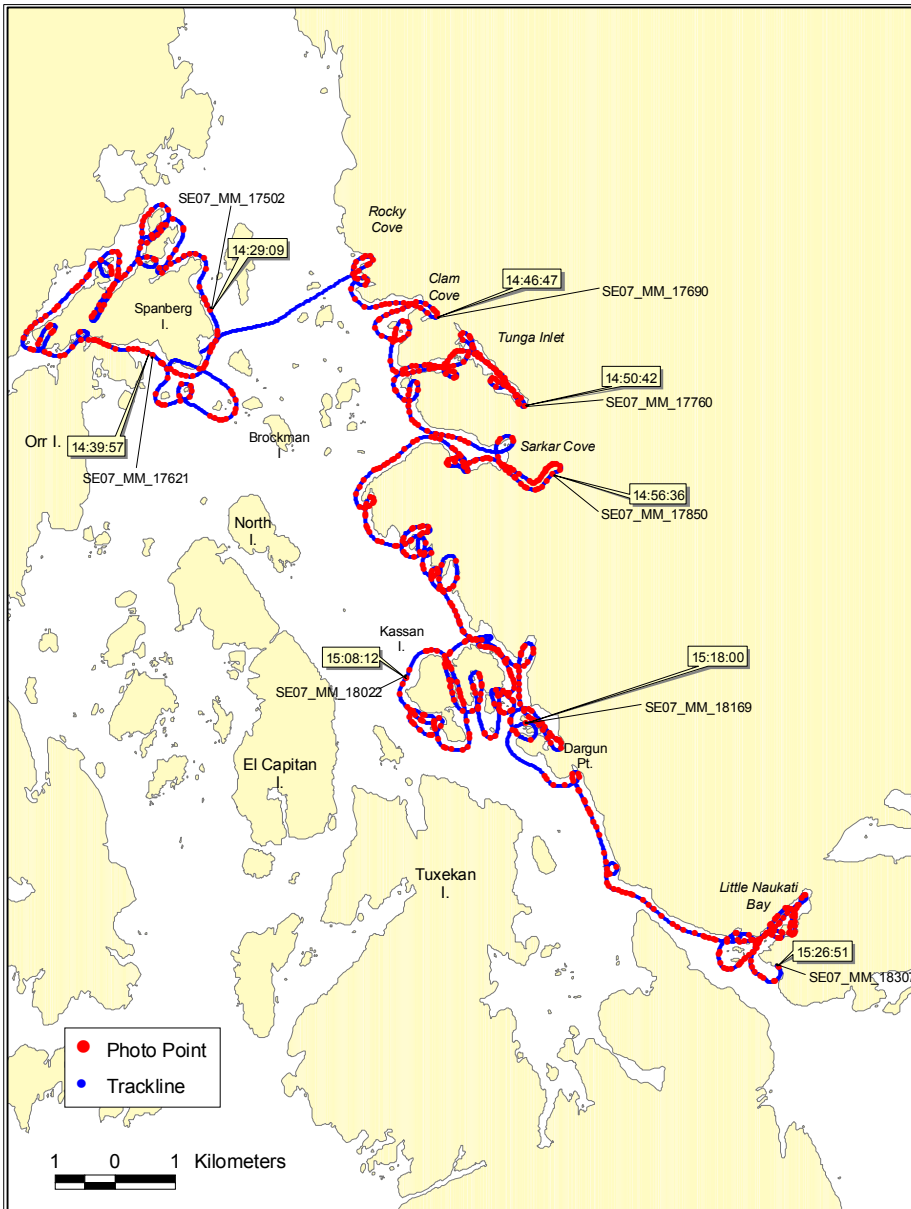
**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_11

**General Location:** Shakan Strait  
**Date:** 30 July 2007  
**Time Start:** 170235 (UTC) ( 090235 ADT)  
**Fuel Break:** none  
**Time Stop:** 171252 (UTC) (091252 ADT)  
**Tape Length:** 10:17  
**Geo:** Borecky  
**Bio:** Morris  
**Nav:** Morrow

**Weather:** High overcast

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:02:51	E entrance to Shakan Strait	SE07_MM_17289
17:07:16	Mid-point Shakan Strait	SE07_MM_17354
17:12:25	W entrance to Shakan Strait	SE07_MM_17435



**SE07\_SS\_12**  
**30 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_12

**General Location:** Spanberg I., Clam Cove, Kassan Islands to Naukati

**Date:** 31 July 2007

**Time Start:** 142835 (UTC) ( 062835ADT)

**Fuel Break:** none

**Time Stop:** 152653 (UTC) (072653 ADT)

**Tape Length:** 57:35

**Geo:** Borecky

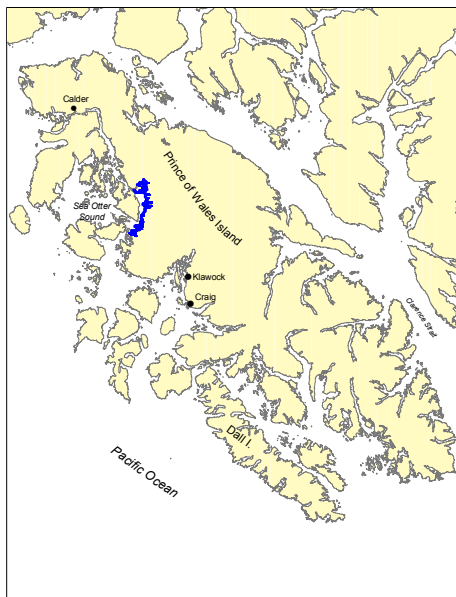
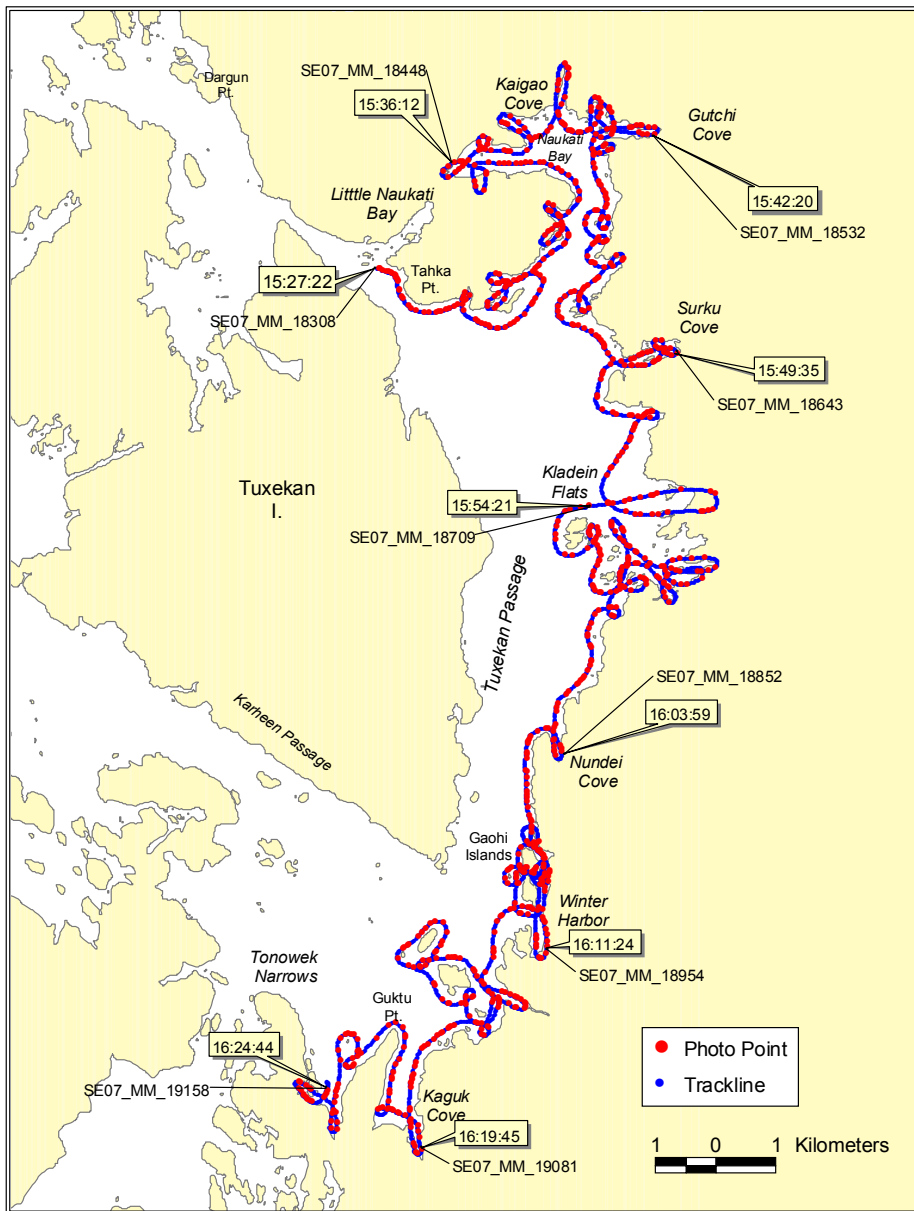
**Bio:** Morris

**Nav:** Morrow

**Weather:** High overcast

**Notes:** Tape stoppage from 145858 to 145943. Time stamp reset at 32:23

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
14:29:09	E side Spanberg I.	SE07_MM_17502
14:39:57	SW side Spanberg I	SE07_MM_17621
14:46:47	Head of Clam Cove	SE07_MM_17690
14:50:42	Head of Tunga Inlet	SE07_MM_17760
14:56:36	Head of Sarkar Cove	SE07_MM_17850
15:08:12	NW corner of Kassan Islands	SE07_MM_18022
15:18:00	Dargun Pt.	SE07_MM_18169
15:26:51	Naukati	SE07_MM_18307



**SE07\_SS\_13**  
**31 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_13

**General Location:** Naukati Bay, Kladein Flats, Tuxekan Passage, Kaguk Cove

**Date:** 31 July 2007

**Time Start:** 152722 (UTC) ( 072722 ADT)

**Fuel Break:** none

**Time Stop:** 162454 (UTC) (082454 ADT)

**Tape Length:** 57:32

**Geo:** Borecky

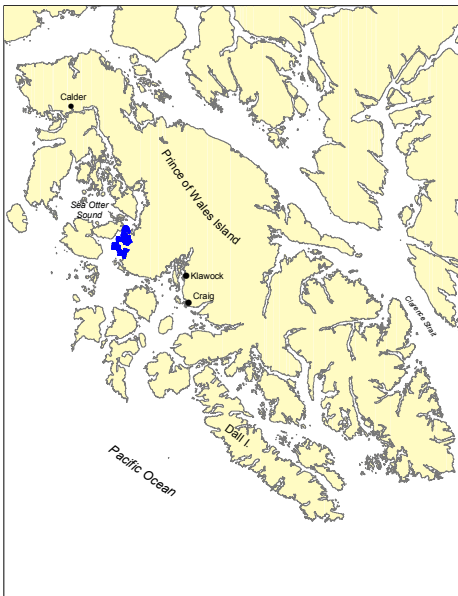
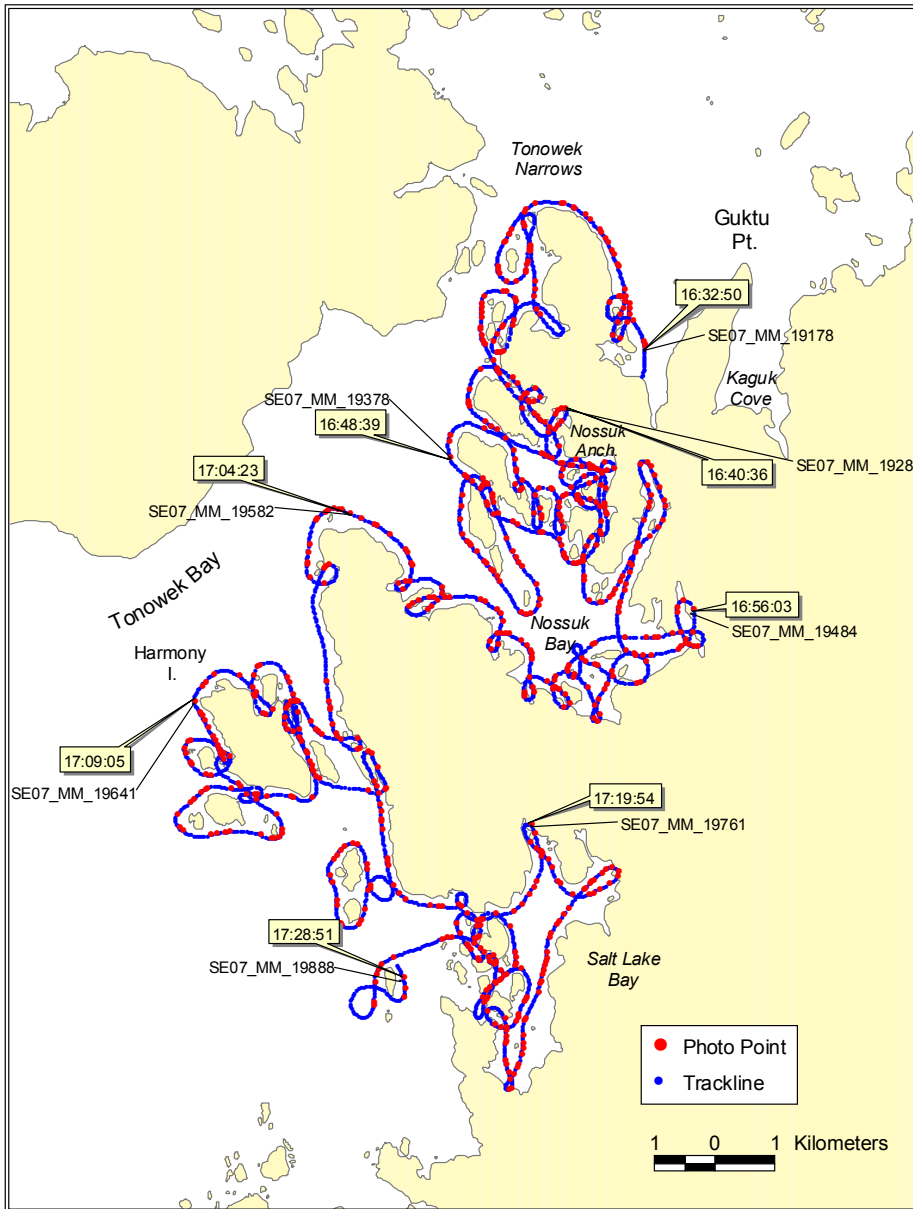
**Bio:** Morris

**Nav:** Morrow

**Weather:** High overcast

**Notes:** Tape stoppage from 162218 to 162223. Camera copy must be burned to 162454.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:27:22	Naukati	SE07_MM_18308
15:36:12	Naukati Bay	SE07_MM_18448
15:42:20	Gutchi Cove	SE07_MM_18532
15:49:35	Surku Cove	SE07_MM_18643
15:54:21	Kladein Flats	SE07_MM_18709
16:03:59	Nundei Cove	SE07_MM_18852
16:11:24	Winter Harbor	SE07_MM_18954
16:19:45	Kaguk Cove	SE07_MM_19081
16:24:44	Cove west of Guktu Pt.	SE07_MM_19158



**SE07\_SS\_14**  
**31 July 2007**



**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_14

**General Location:** Tonowek Passage, Nossuk Bay, Salt Lake Bay

**Date:** 31 July 2007

**Time Start:** 163236 (UTC) ( 083236 ADT)

**Fuel Break:** none

**Time Stop:** 172857 (UTC) (092857 ADT)

**Tape Length:** 57:38

**Geo:** Morrow

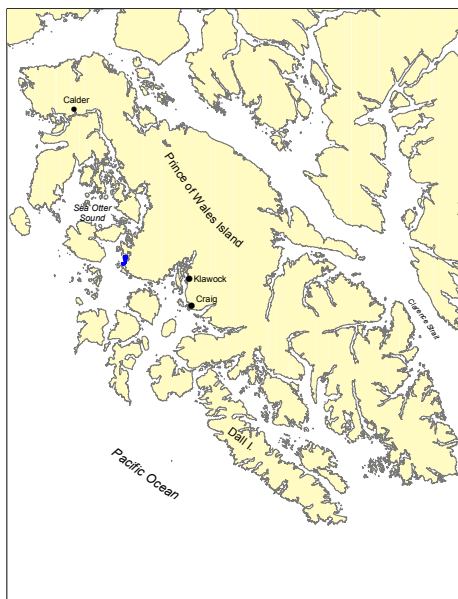
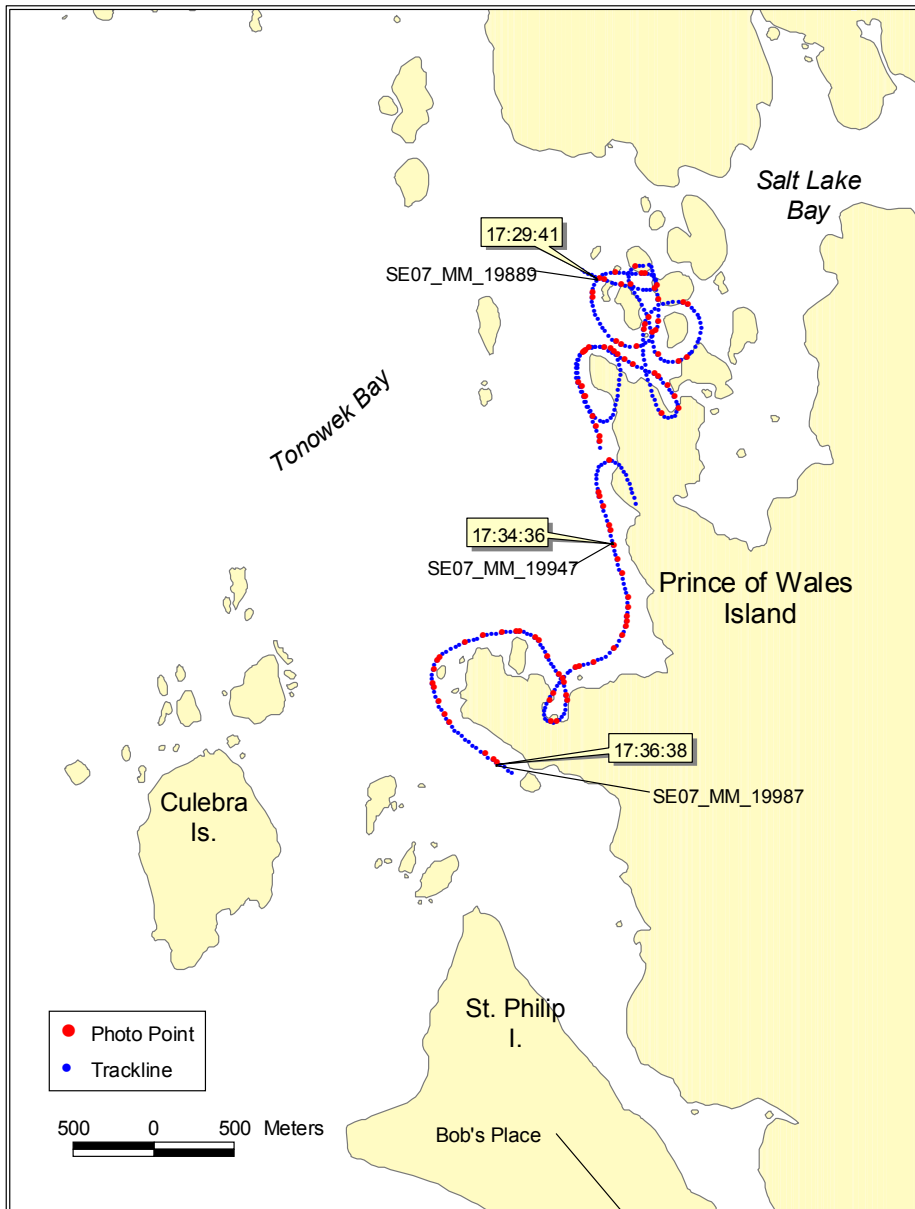
**Bio:** Morris

**Nav:** Borecky

**Weather:** High overcast

**Notes:** First portion of tape required cleaning cassette..unusable imagery until stated start time above, no shoreline lost.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:32:50	Bay west of Guktu Point	SE07_MM_19178
16:40:36	Nossuk Anchorage	SE07_MM_19281
16:48:39	Islands at E entrance to Nossuk Bay	SE07_MM_19378
16:56:03	Head of Nossuk Bay	SE07_MM_19484
17:04:23	W entrance to Nossuk Bay	SE07_MM_19582
17:09:05	Harmony I.	SE07_MM_19641
17:19:54	N side Salt Lake Bay	SE07_MM_19761
17:28:51	Islands west of entrance to Salt Lake Bay	SE07_MM_19888



**SE07\_SS\_15**  
**31 July 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_15

**General Location:** Remaining shoreline west of Salt Bay, almost to Bob's Place

**Date:** 31 July 2007

**Time Start:** 172936 (UTC) ( 092936 ADT)

**Fuel Break:** none

**Time Stop:** 173642 (UTC) (093642 ADT)

**Tape Length:** 06:07

**Geo:** Morrow

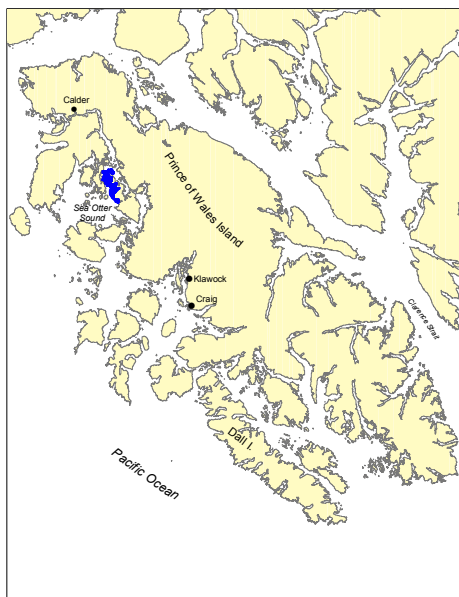
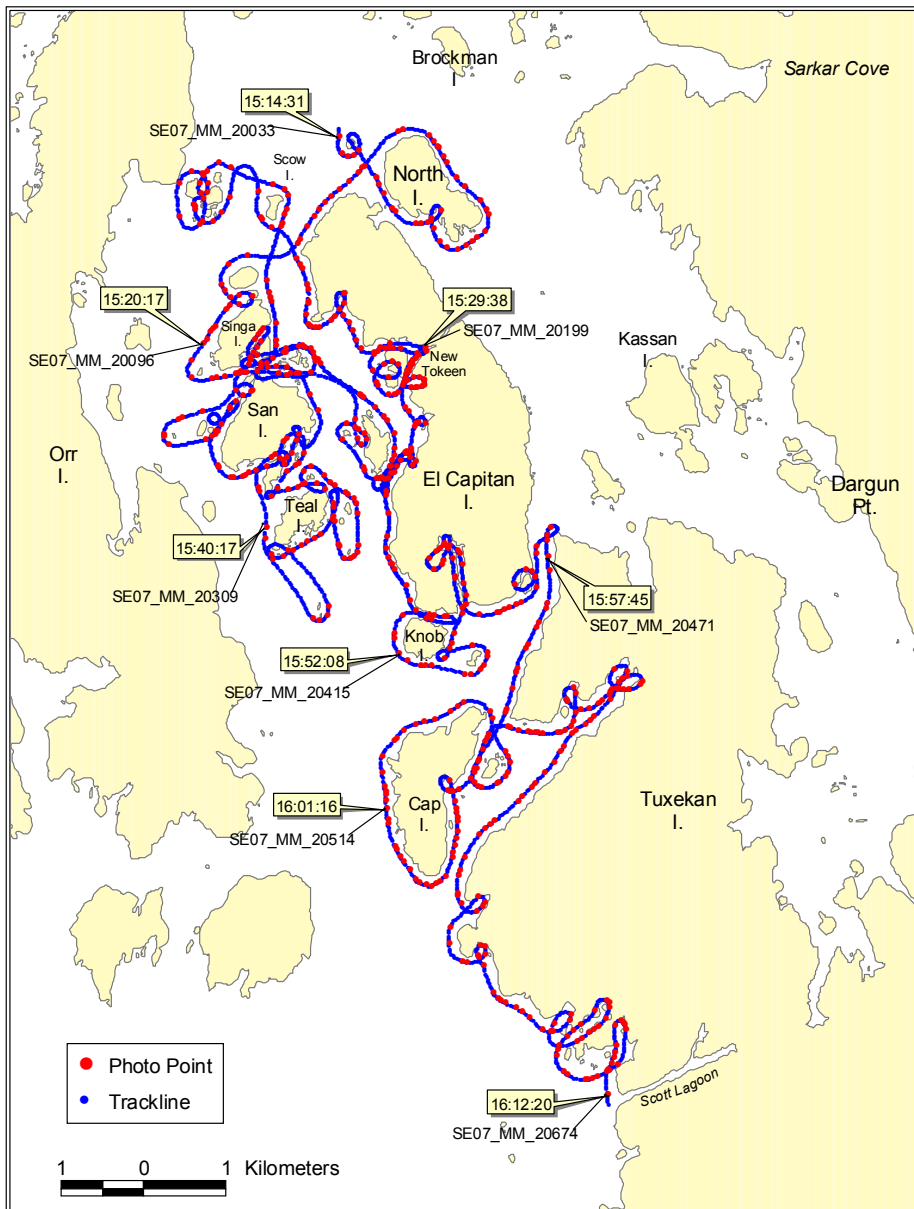
**Bio:** Morris

**Nav:** Borecky

**Weather:** High overcast

**Notes:** Power outage caused break in imagery from 173338 to 173403, no shoreline lost.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:29:41	Islands outside Salt Lake Bay	SE07_MM_19889
17:34:36	POW shoreline south of Salt Lake Bay	SE07_MM_19947
17:36:38	POW shoreline opposite Culebra Islands	SE07_MM_19987



**SE07\_SS\_16**  
**1 August 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_16

**General Location:** North I., Eastern El Capitan I., Singa I., San I., Teal I, Cap I.  
Eastern Tuxekan to Scott Lagoon

**Date:** 1 August 2007

**Time Start:** 151427 (UTC) ( 071427 ADT)

**Fuel Break:** none

**Time Stop:** 161224 (UTC) (081224 ADT)

**Tape Length:** 57:57

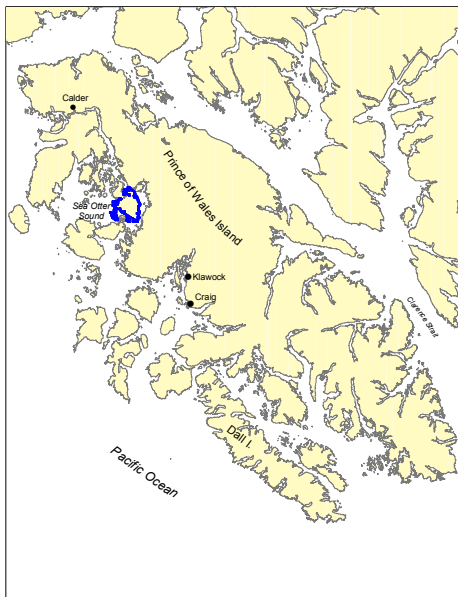
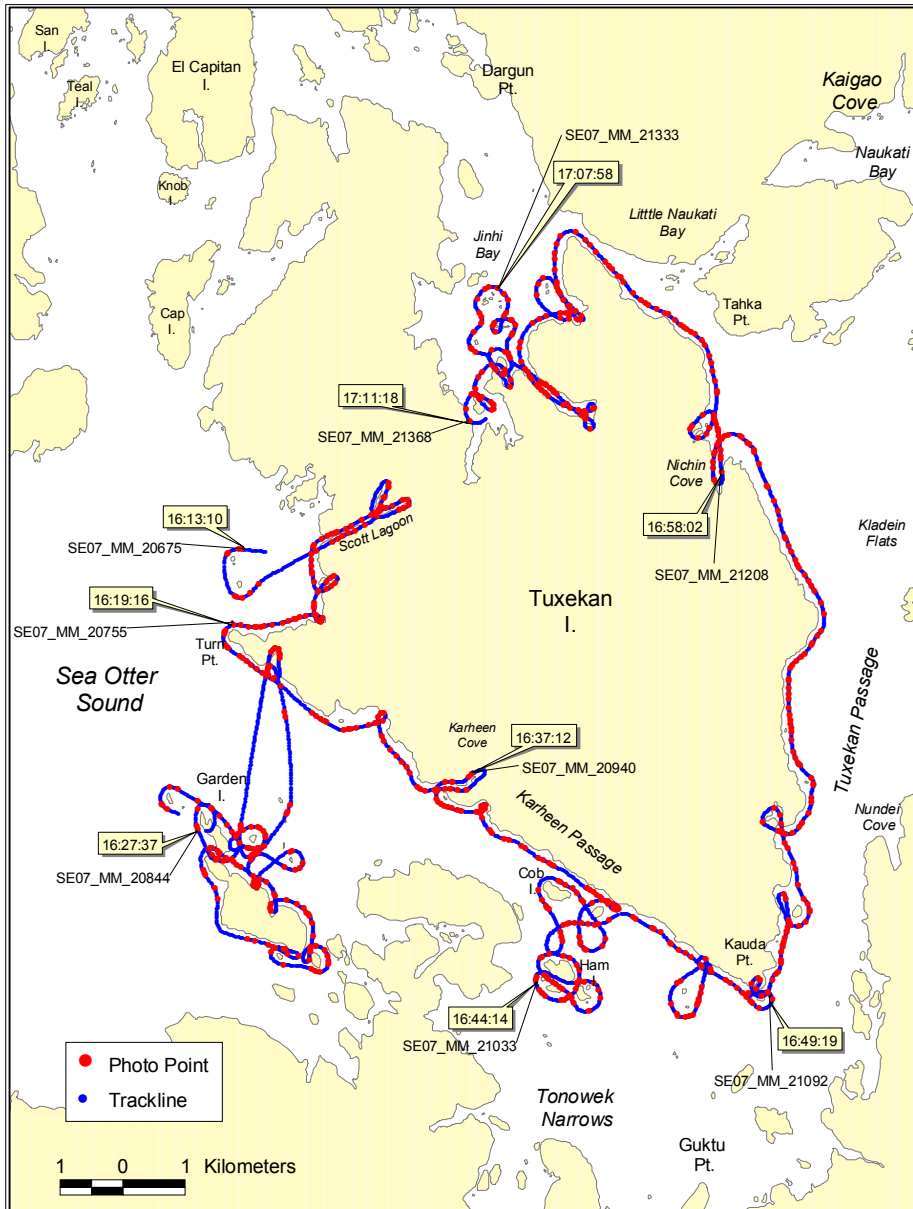
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Sunny, clear

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
15:14:31	Islands northeast of North I.	SE07_MM_20033
15:20:17	Singa I.	SE07_MM_20096
15:29:38	New Tokeen	SE07_MM_20199
15:40:17	Teal I.	SE07_MM_20309
15:52:08	Knob I.	SE07_MM_20415
15:57:45	NW corner of Tuxekan	SE07_MM_20471
16:01:16	Cap I.	SE07_MM_20514
16:12:20	Entrance to Scott Lagoon	SE07_MM_20674



**SE07\_SS\_17**  
**1 August 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_17

**General Location:** Eastern Tuxekan, Karheen Passage, Western Tuxekan to Jinhi Bay

**Date:** 1 August 2007

**Time Start:** 161229 (UTC) ( 081229 ADT)

**Fuel Break:** none

**Time Stop:** 171130 (UTC) (091130 ADT)

**Tape Length:** 57:56

**Geo:** Borecky

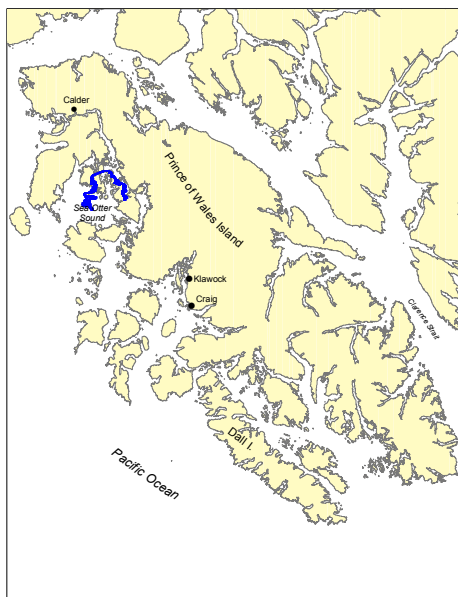
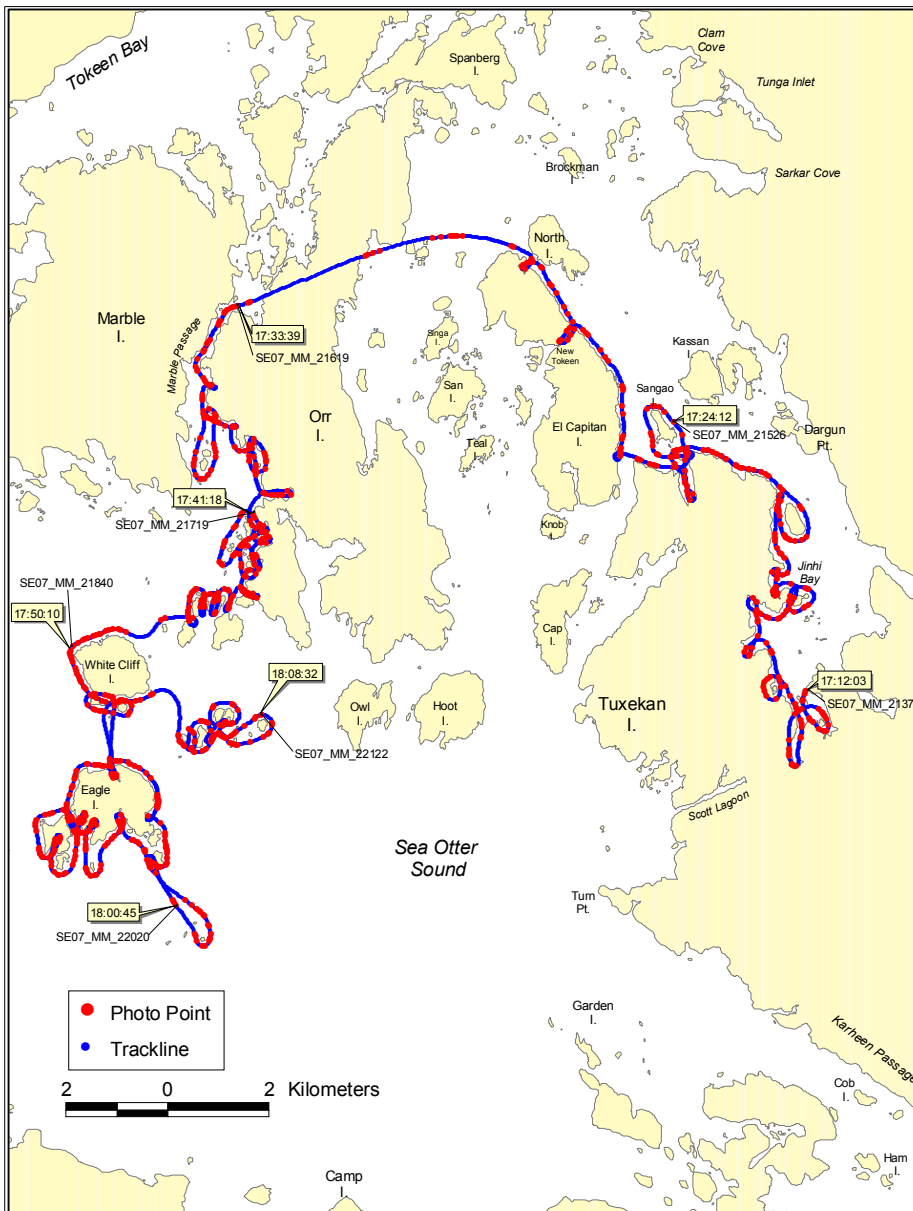
**Bio:** Morris

**Nav:** Morrow

**Weather:** Sunny, clear

**Notes:** Power outage, 162618 to 162704, no shoreline lost.

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:13:10	Islands off Scott Lagoon	SE07_MM_20675
16:19:16	Turn Pt.	SE07_MM_20755
16:27:37	Garden I.	SE07_MM_20844
16:37:12	Karheen Cove	SE07_MM_20940
16:44:14	Ham I	SE07_MM_21033
16:49:19	Kauda Pt.	SE07_MM_21092
16:58:02	Nichin Cove	SE07_MM_21208
17:07:58	Islands in Jinhi Bay	SE07_MM_21333
17:11:18	Near head of Jinhi Bay (flats)	SE07_MM_21368



**SE07\_SS\_18**  
**1 August 2007**



**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_18

**General Location:** Northeastern Tuxekan I., Eastern El Capitan I., Orr I and eastern Marble Passage, White Cliff I., Eagle I.

**Date:** 1 August 2007

**Time Start:** 171203 (UTC) ( 091203 ADT)

**Fuel Break:** none

**Time Stop:** 181130 (UTC) (101130 ADT)

**Tape Length:** 59:25

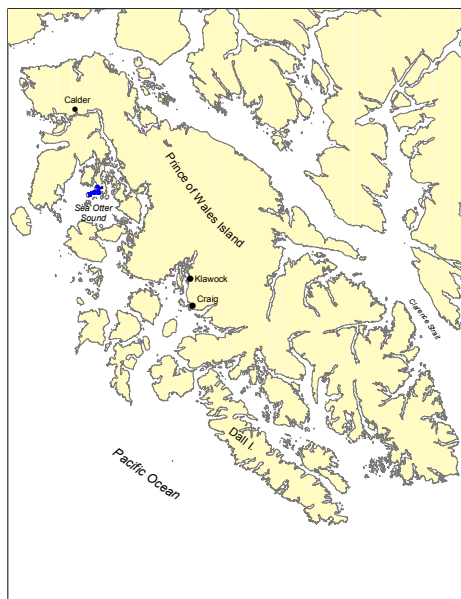
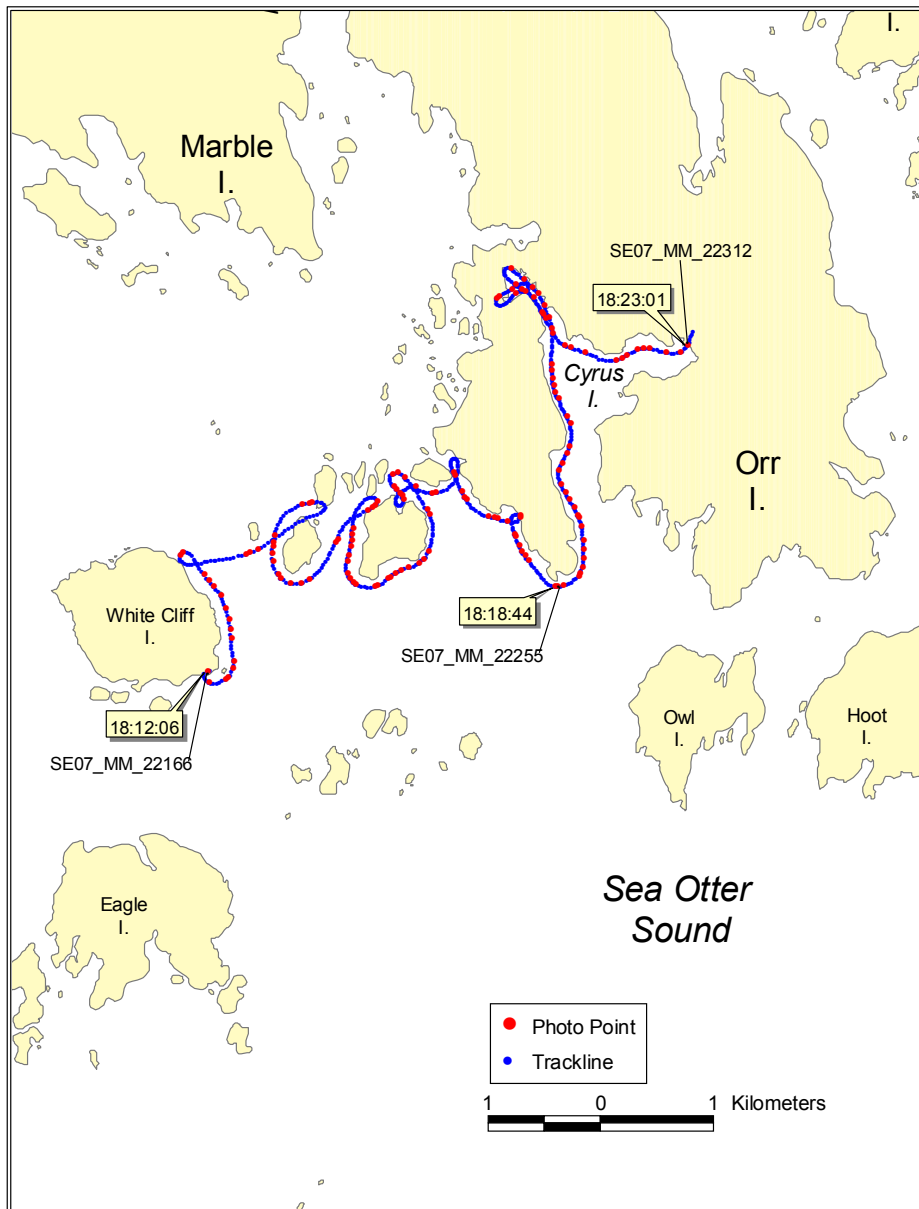
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Sunny, clear

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:12:03	Head of Jinhi Bay	SE07_MM_21370
17:24:12	W side Sangao I.	SE07_MM_21526
17:33:39	E side of Marble Passage	SE07_MM_21619
17:41:18	Orr Island, S entrance to Marble Passage	SE07_MM_21719
17:50:10	NW corner of White Cliff I.	SE07_MM_21840
18:00:45	Clump I. vicinity	SE07_MM_22020
18:08:32	Archipelago between White Cliff and Owl I.	SE07_MM_22122



**SE07\_SS\_19**  
**1 August 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_19

**General Location:** Orr I. to Cyrus Cove

**Date:** 1 August 2007

**Time Start:** 181205 (UTC) ( 101205 ADT)

**Fuel Break:** none

**Time Stop:** 182306 (UTC) (102306 ADT)

**Tape Length:** 11:01

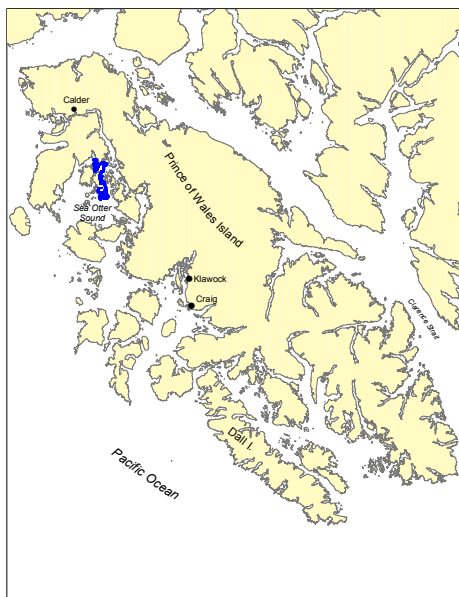
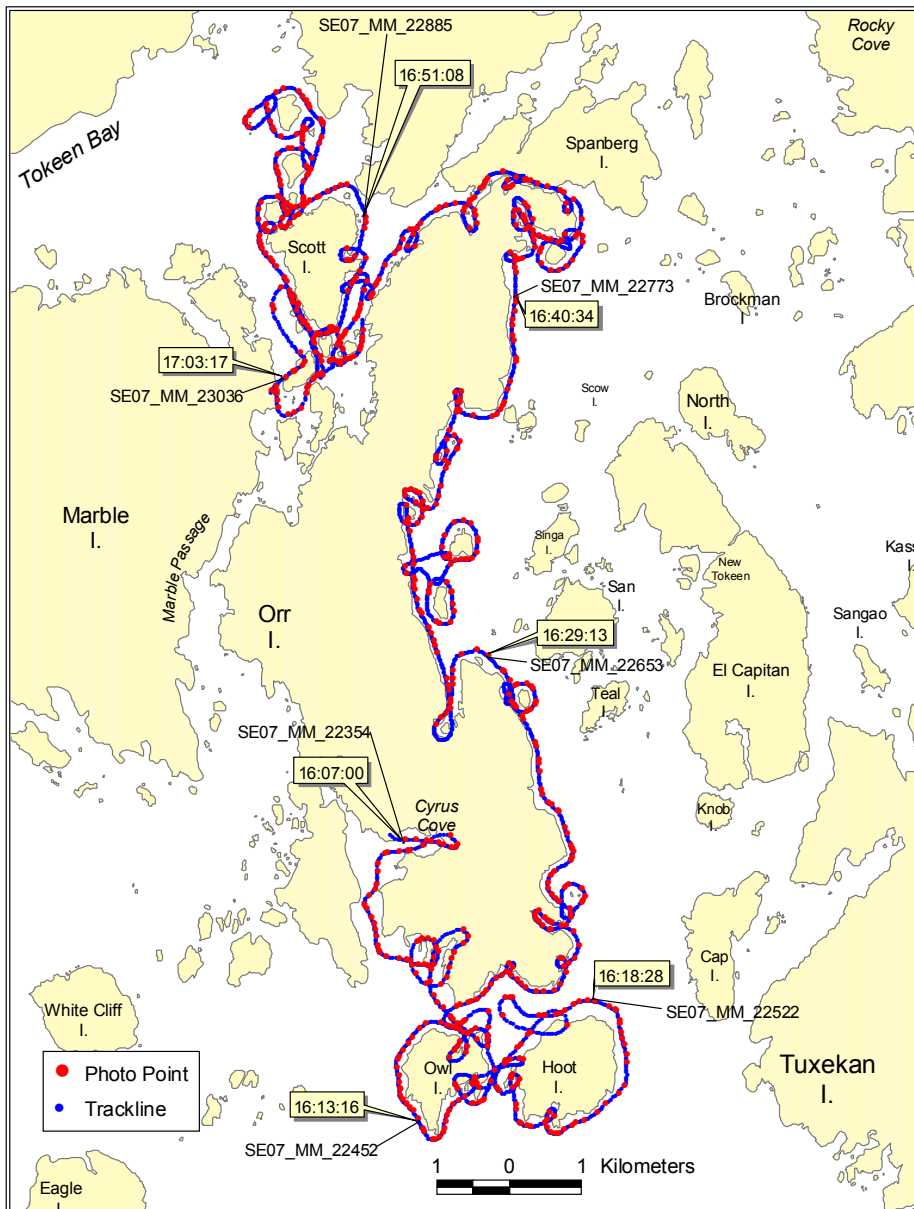
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Sunny, clear

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
18:12:06	S side White Cliff I	SE07_MM_22166
18:18:44	W entrance to Cyrus Cove, Orr I.	SE07_MM_22255
18:23:01	Head of Cyrus Cove, Orr I.	SE07_MM_22312



**SE07\_SS\_20**  
**2 August 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_20

**General Location:** Orr I. , Hoot I., Owl I.

**Date:** 2 August 2007

**Time Start:** 160655 (UTC) ( 080655 ADT)

**Fuel Break:** none

**Time Stop:** 170456 (UTC) (090456 ADT)

**Tape Length:** 57:24

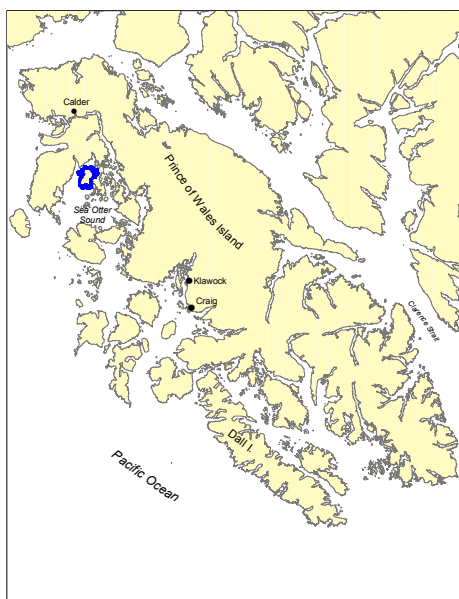
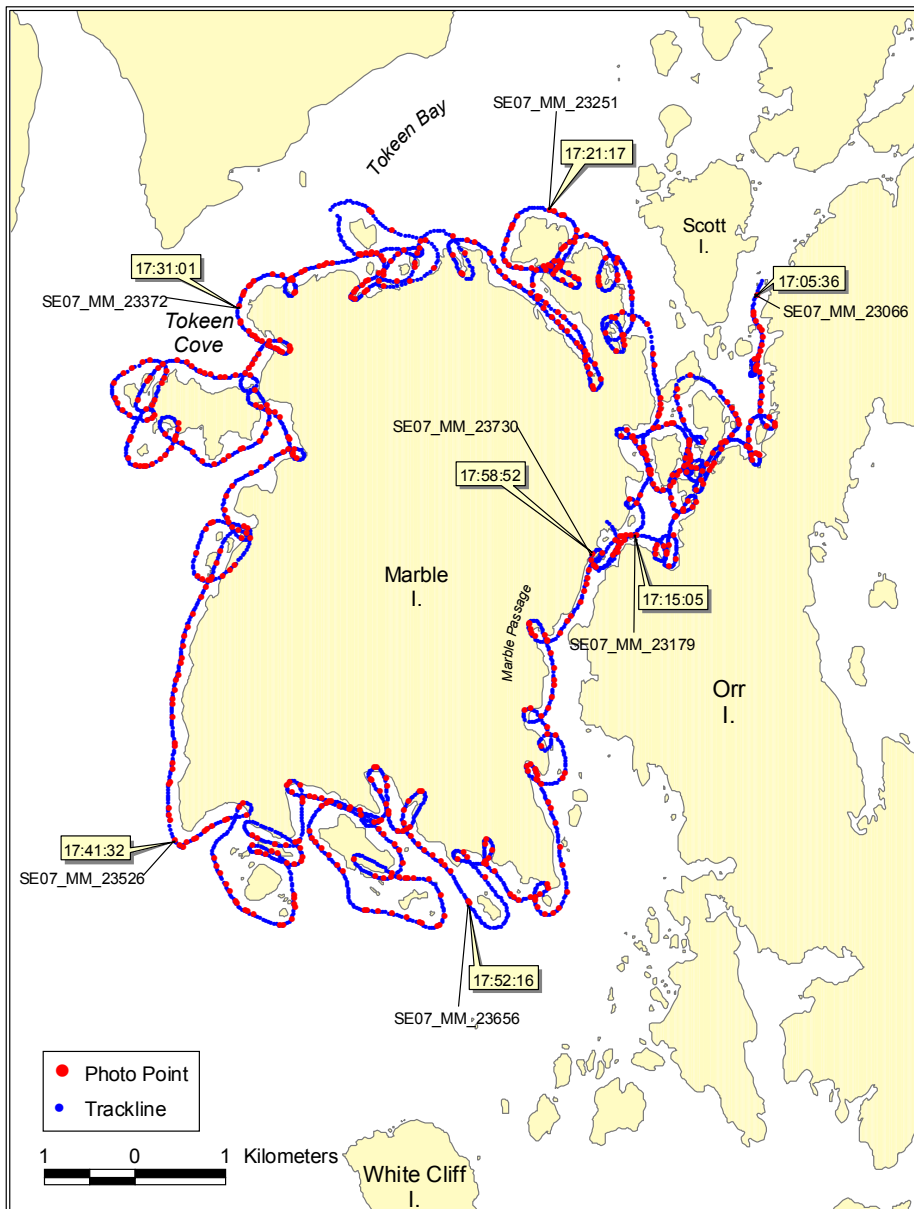
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Sunny, clear

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
16:07:00	Cyrus Cove	SE07_MM_22354
16:13:16	SW corner of Owl I.	SE07_MM_22452
16:18:28	NE corner of Hoot I.	SE07_MM_22522
16:29:13	Mid-way, east side of Orr I.	SE07_MM_22653
16:40:34	NE side of Orr I	SE07_MM_22773
16:51:08	NE side of Scott I	SE07_MM_22885
17:03:17	W side of island south of Scott I, before Marble Passage	SE07_MM_23036



**SE07\_SS\_21**  
**2 August 2007**

**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_21

**General Location:** Marble I.

**Date:** 2 August 2007

**Time Start:** 170530 (UTC) ( 090530 ADT)

**Fuel Break:** none

**Time Stop:** 175919 (UTC) (095919 ADT)

**Tape Length:** 53:49

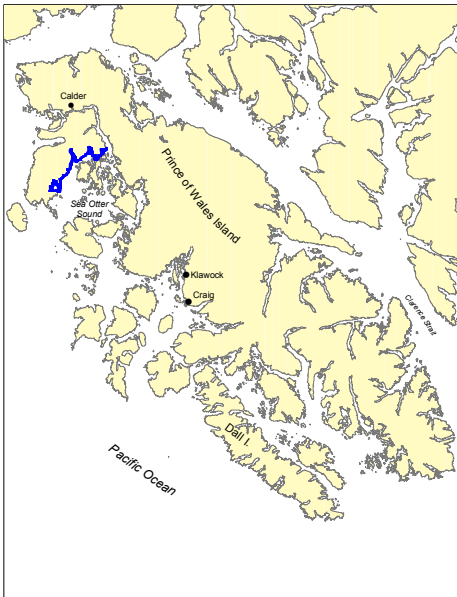
**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Sunny, clear

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
17:05:36	NW corner of Orr I.	SE07_MM_23066
17:15:05	Marble Passage, W coast of Orr I.	SE07_MM_23179
17:21:17	N tip of Marble I.	SE07_MM_23251
17:31:01	Entering Tokeen Cove	SE07_MM_23372
17:41:32	SW tip of Marble I.	SE07_MM_23526
17:52:16	Islands off NE tip of Marble I.	SE07_MM_23656
17:58:52	Marble Passage, E coast of Marble I.	SE07_MM_23730



**SE07\_SS\_22**  
**2 August 2007**



**2007 South Prince of Whales Island Aerial Video Imaging Survey  
Team Otter (SS)**

**Tape Number:** SE07\_SS\_22

**General Location:** Kosciusko Island; Edna Bay to El Capitan Passage

**Date:** 2 August 2007

**Time Start:** 180452 (UTC) (100452 ADT)

**Fuel Break:** none

**Time Stop:** 185909 (UTC) (105909 ADT)

**Tape Length:** 54:18

**Geo:** Borecky

**Bio:** Morris

**Nav:** Morrow

**Weather:** Sunny, clear

<b>Time (UTC)</b>	<b>Location</b>	<b>Photo</b>
18:05:49	Entrance I, Edna Bay	SE07_MM_23763
18:12:38	Head of Edna Bay	SE07_MM_23861
18:17:28	Limestone Pt.	SE07_MM_23937
18:24:39	Van Sant Cove	SE07_MM_24032
18:30:46	Head of Holbrook Arm	SE07_MM_24109
18:42:49	Head of Tokeen Bay	SE07_MM_24264
18:50:24	W entrance to Tenass Pass	SE07_MM_24361
18:58:56	SW entrance to El Capitan Passage	SE07_MM_24468



Gould Island, near Waterfall Bay, Dall Island.  
SE07\_MM\_11738



Diver Islands, near Meares Passage, Dall Island.  
SE07\_MM\_15026



Foul Bay, Dall Island. SE07\_MM\_11738



Dry Pass, SE07\_MM\_16050



Dry Pass, SE07\_MM\_16145



Bear Valley, Prince of Wales, SE07\_MM\_16245



Klinau I, Naukati, SE07\_MM\_18365



Kladein Flats, POW SE07\_MM\_18956



Canoe runs near Garden Island, SE07\_MM\_20785



Canoe runs near Garden Island, SE07\_MM\_21053



Jinhi Bay, Tuxekan Island, SE07\_MM\_20785



Sea Otter Sound, SE07\_MM\_20683



Near Clump Island,  
SE07\_MM\_22060



Sea Otter Sound,  
SE07\_MM\_22351



Northern Marble Island,  
SE07\_MM\_23361



Southern Marble Island,  
SE07\_MM\_23555



Edna Bay, Kosciusko Island  
SE07\_MM\_23900

