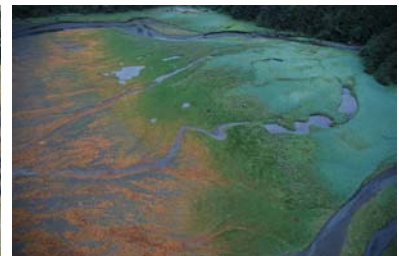
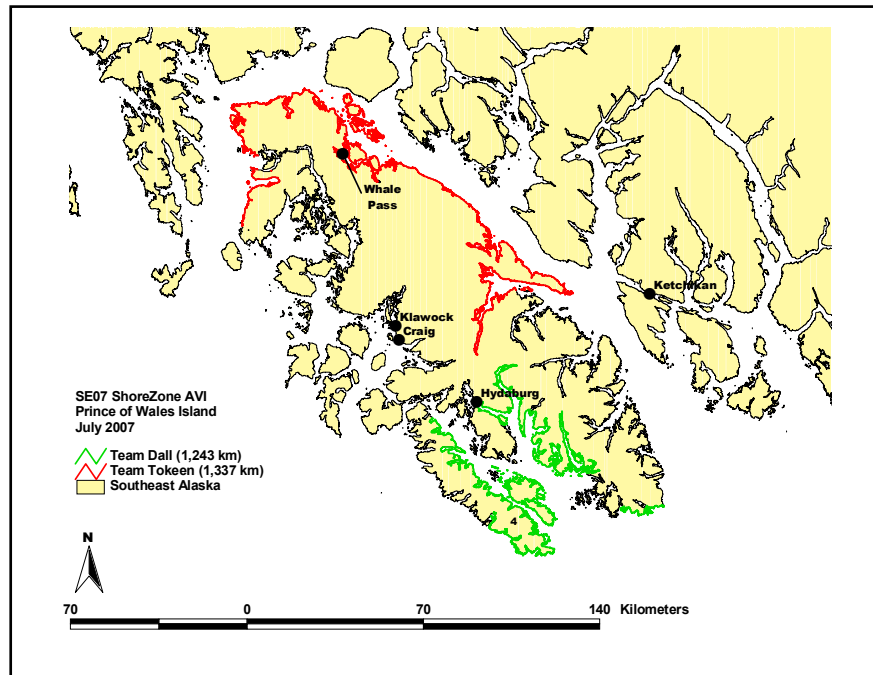


FLIGHT REPORT
ShoreZone Aerial Video Imaging (AVI) Survey
Prince of Wales Island, SE Alaska
July 12-17, 2007
Team Tokeen (TK)
Team Dall (DL)



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 charted 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.

Team	Base	Tapes	Pages
Tokenen (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 Tokenen - TK).

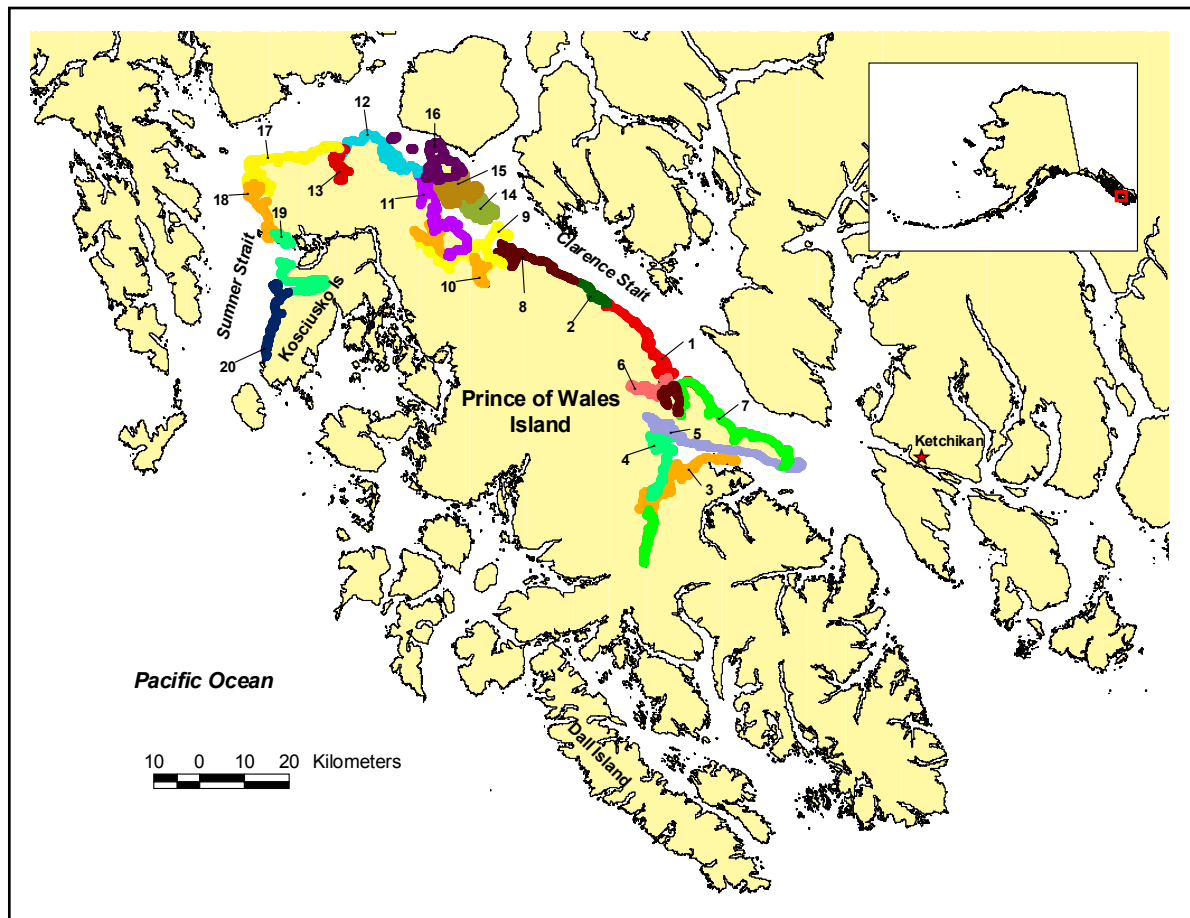
Crew Member	Individual / Affiliation	Responsibilities
<i>Geomorphologist</i>	Jodi Harney CORI, Sidney BC	survey coordination, videography, geologic commentary, post-flight data processing, project reporting
<i>Coastal Ecologist</i>	Mary Morris AMR, Victoria BC	digital photography, biologic commentary
<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).

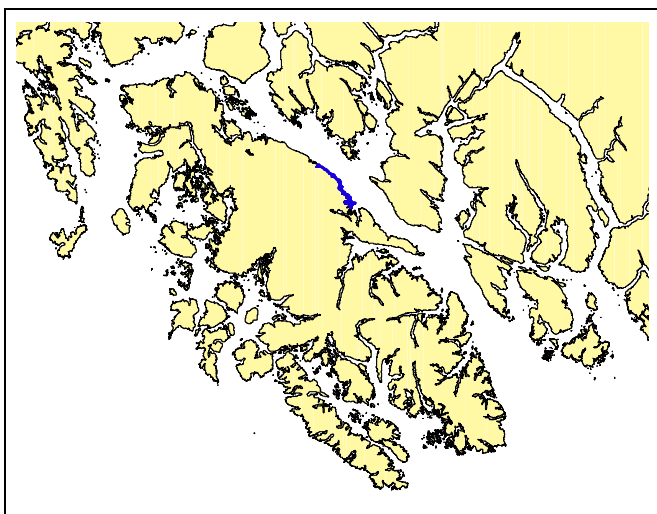
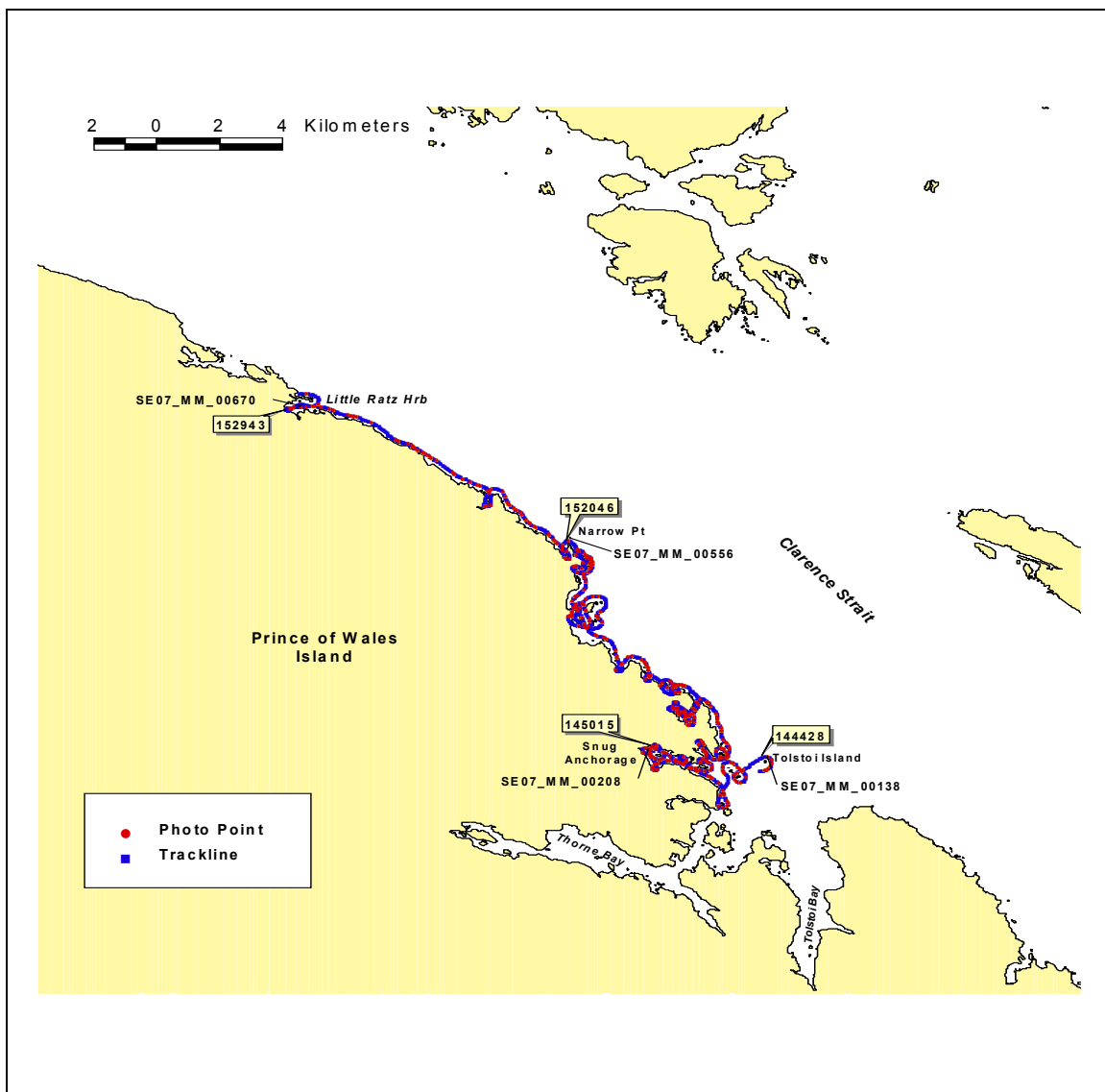
Crew Member	Individual / Affiliation	Responsibilities
<i>Geomorphologist</i>	Neil Borecky CORI, Sidney BC	survey coordination, videography, geologic commentary, post-flight data processing, project reporting
<i>Coastal Ecologist</i>	Heather Anderson AMR, Victoria BC	digital photography, biologic commentary
<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

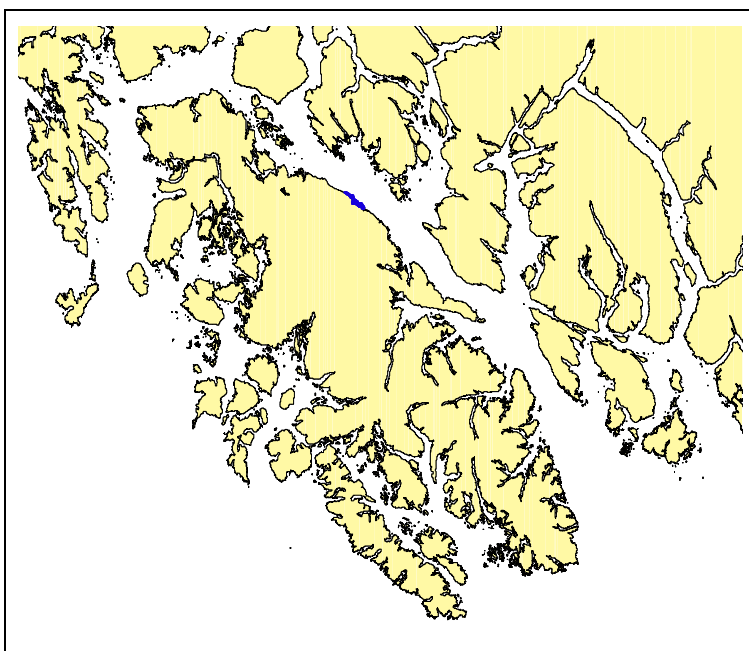
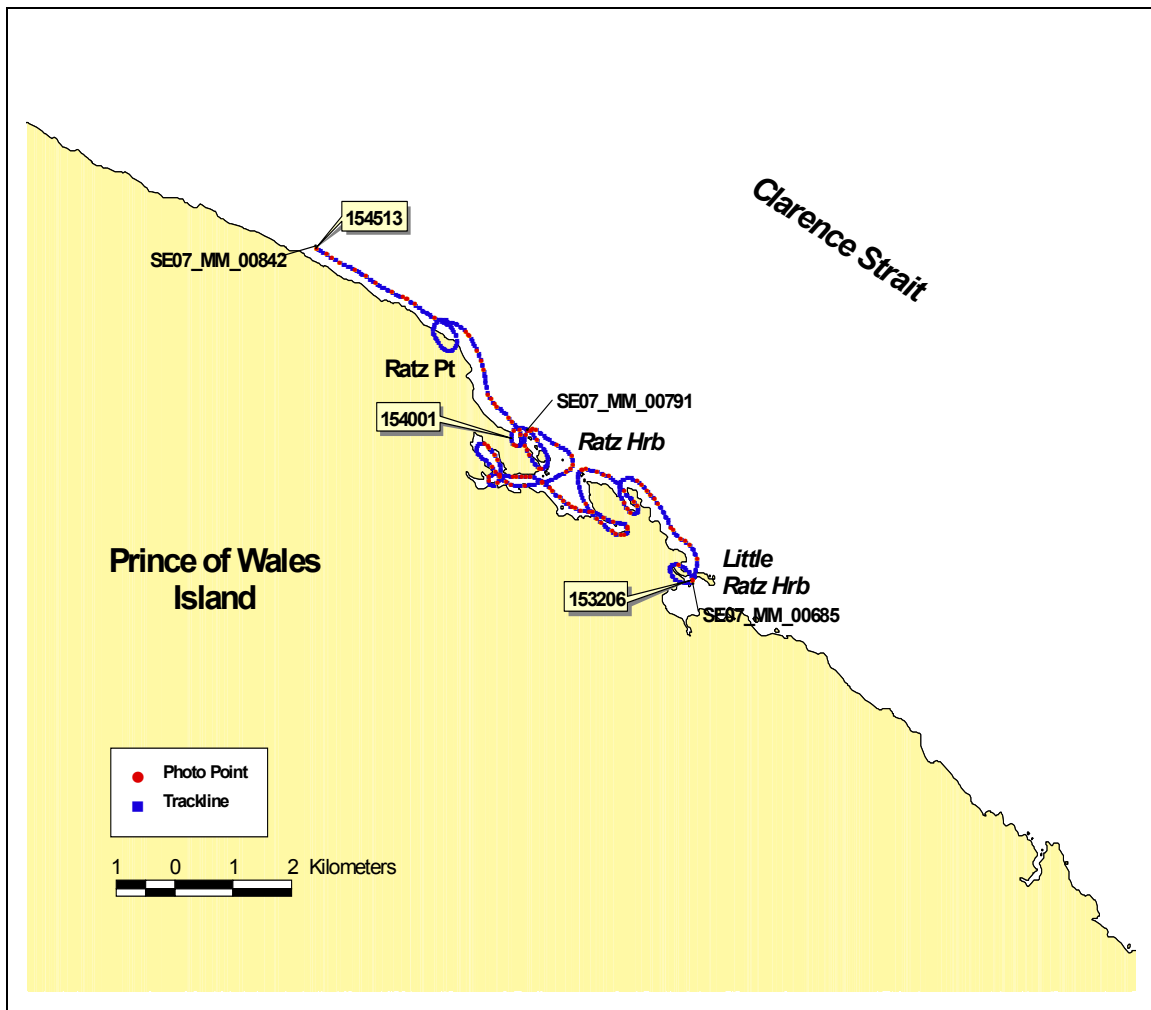
Bio: Morris

Nav: Daley

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
	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
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**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

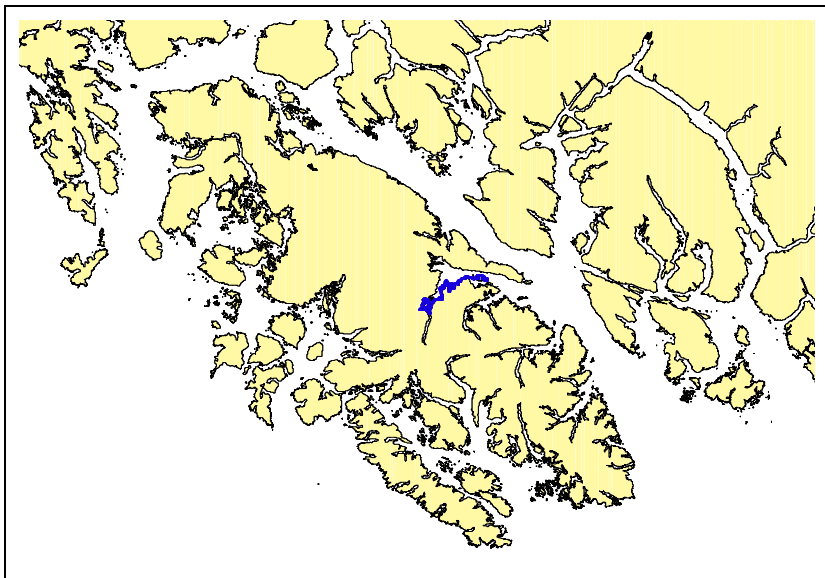
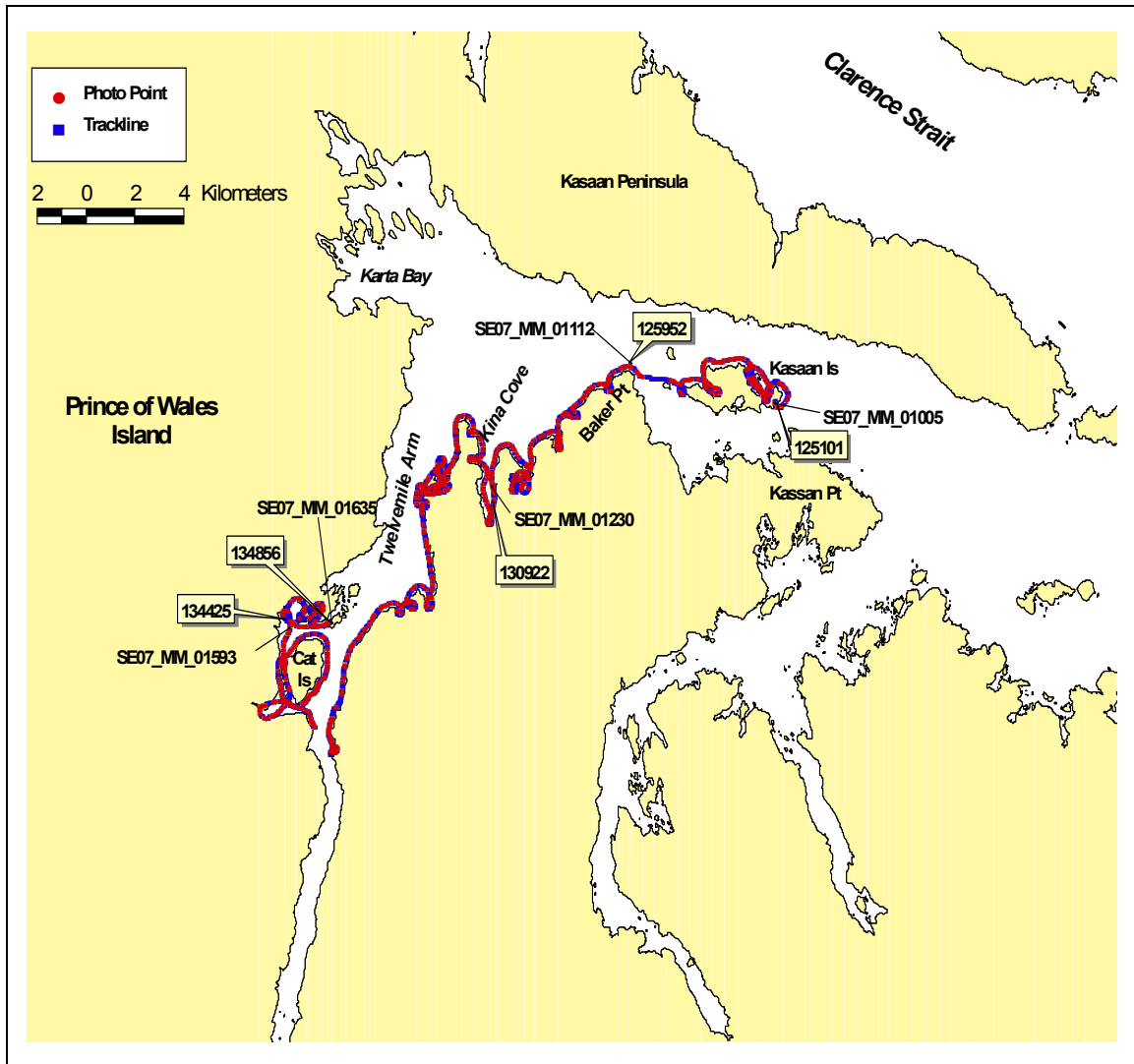
Bio: Morris

Nav: Daley

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
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**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

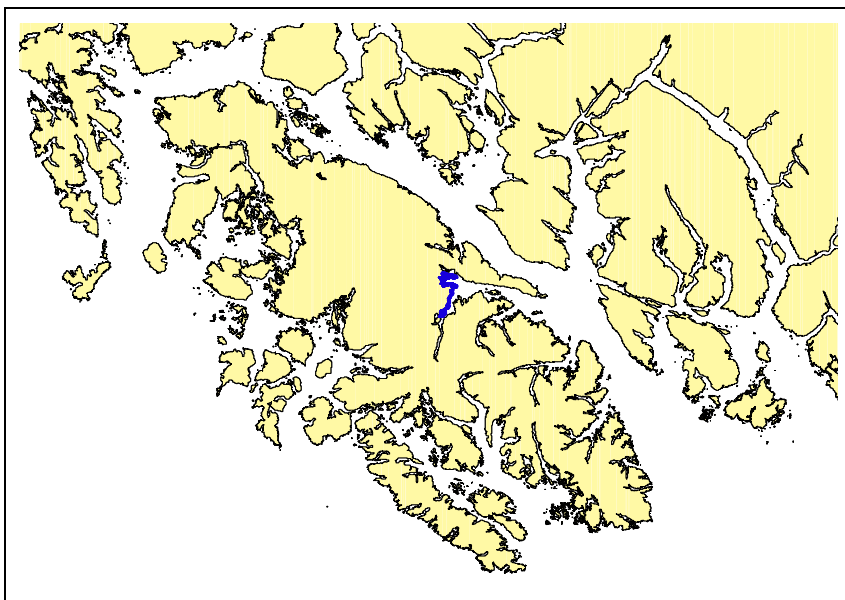
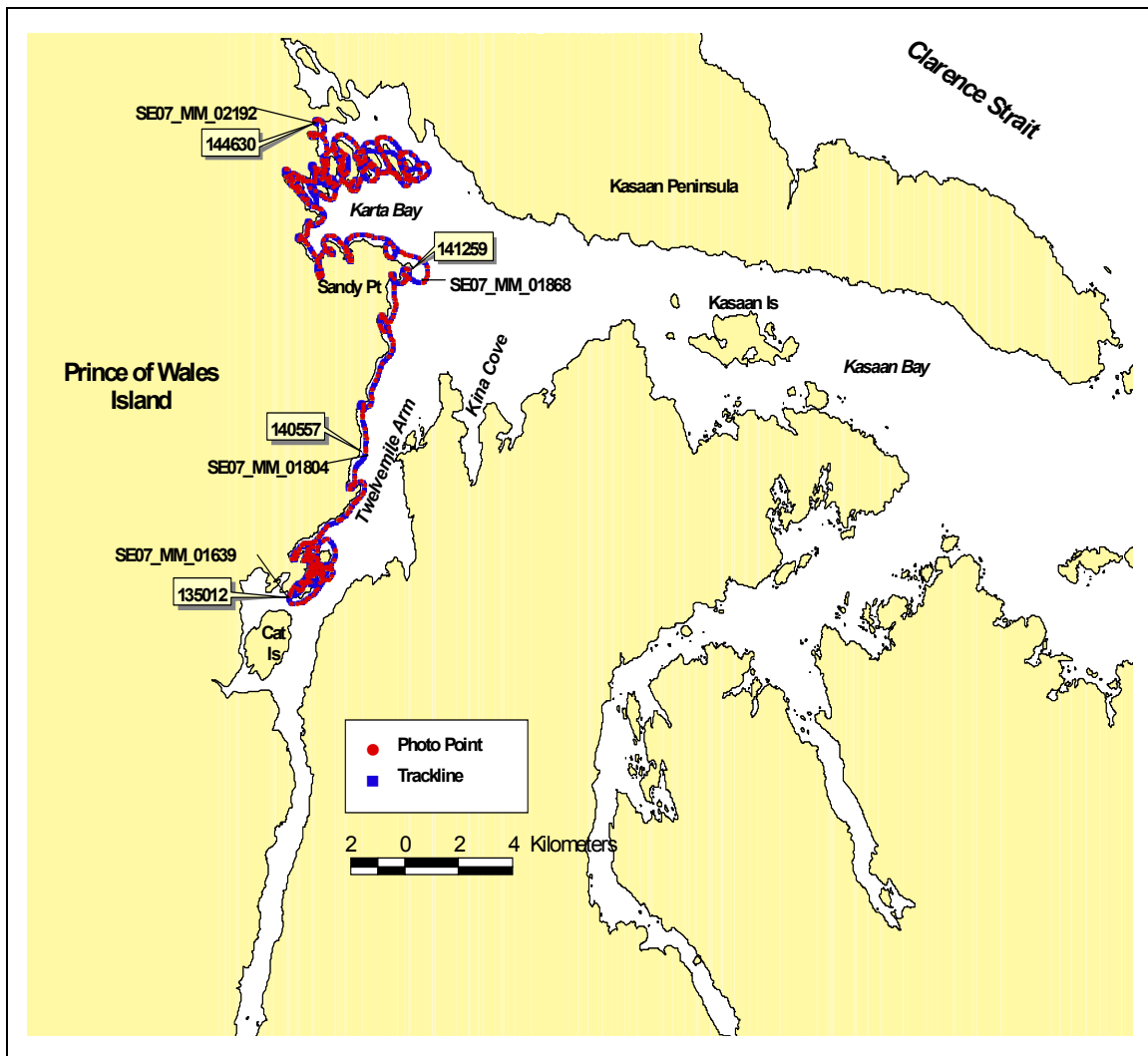
Bio: Morris

Nav: Daley

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
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**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

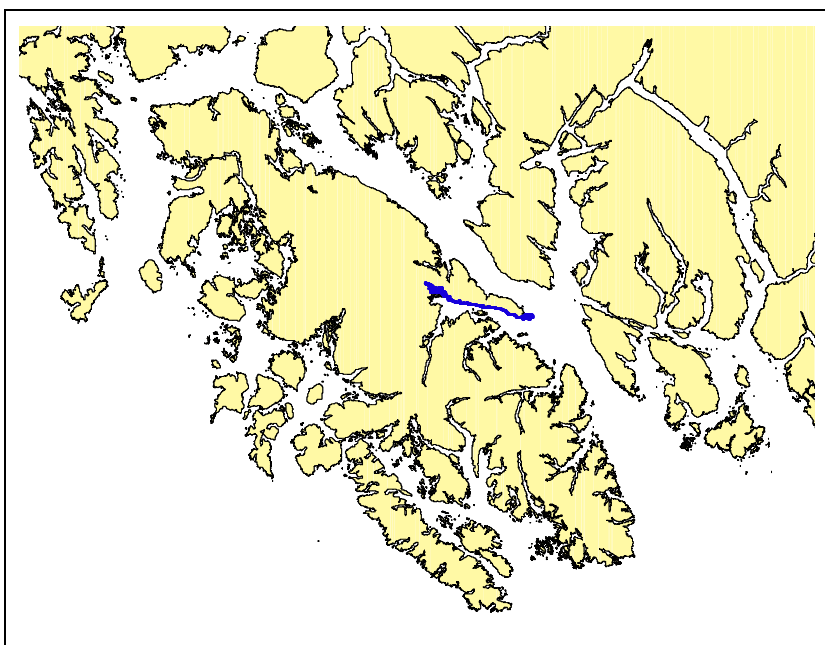
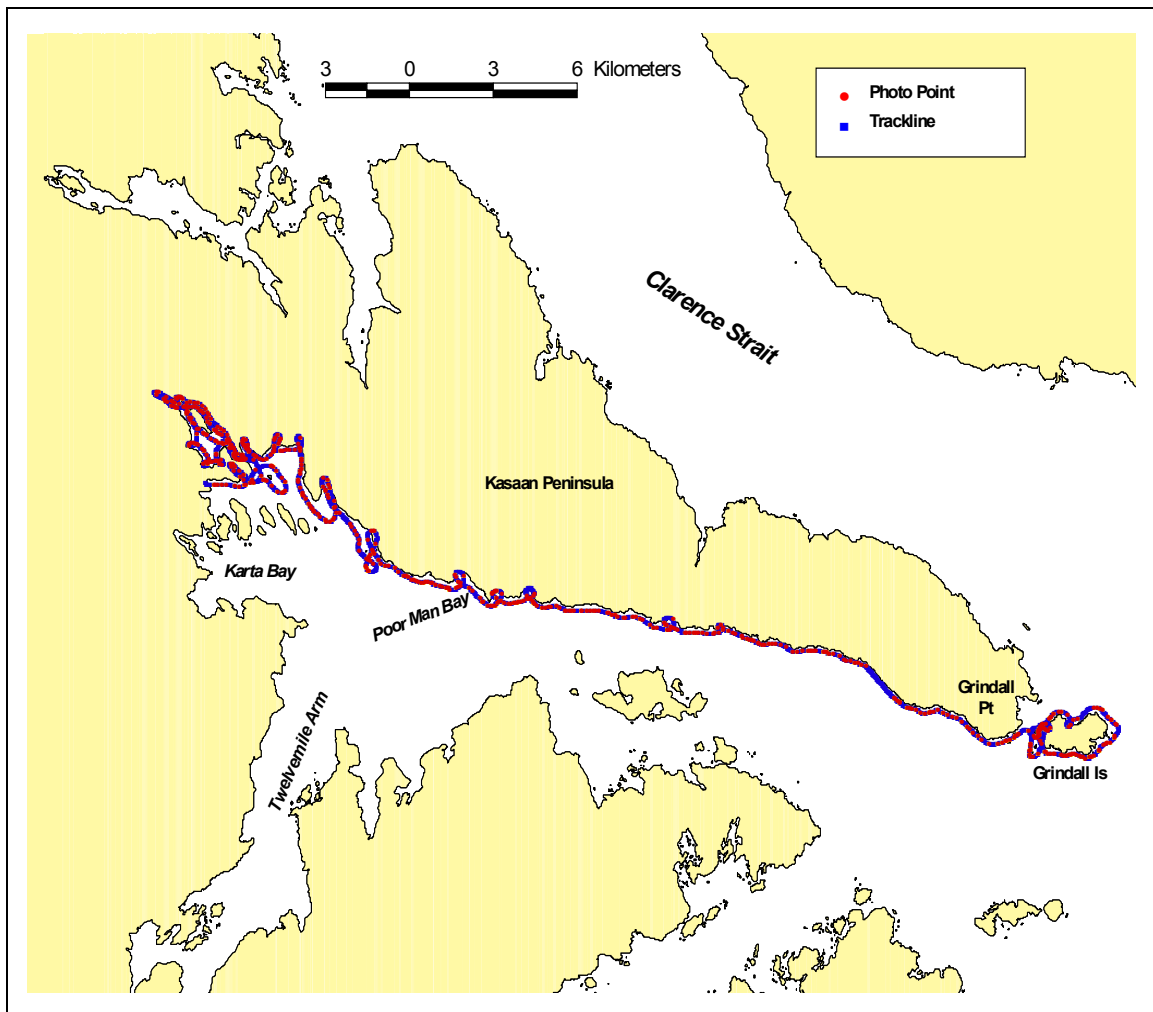
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
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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

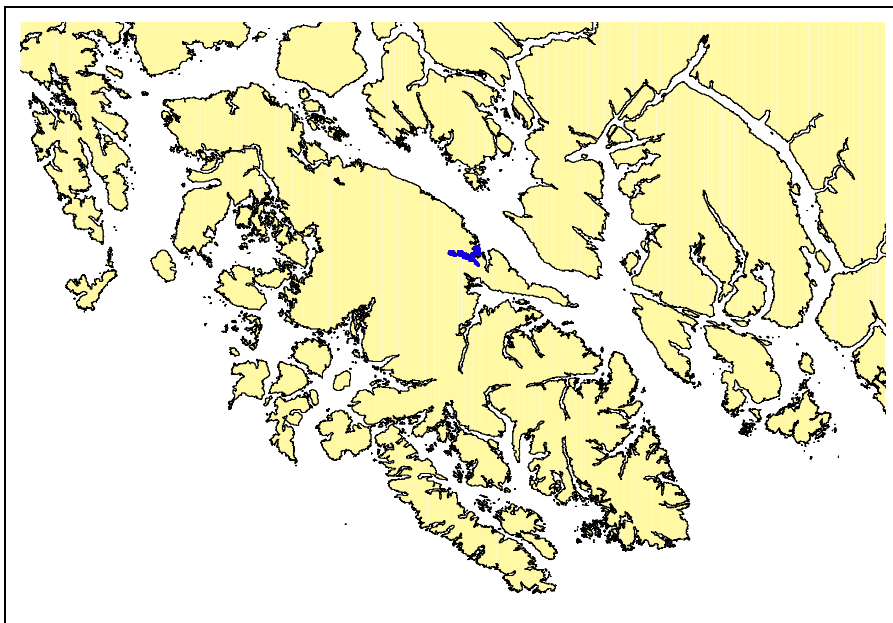
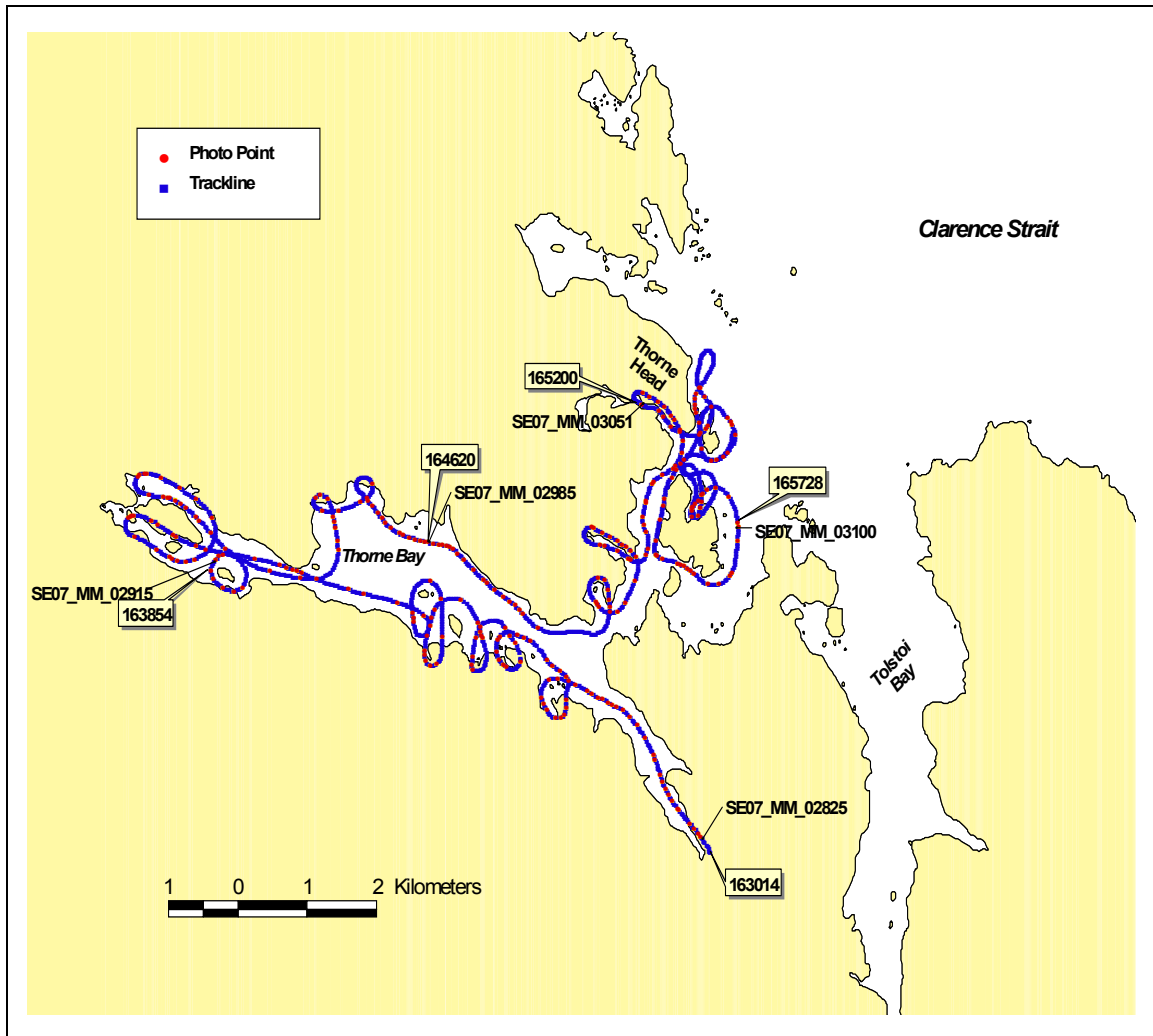
Geo: Harney / Daley

Bio: Morris

Nav: Daley / Harney

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
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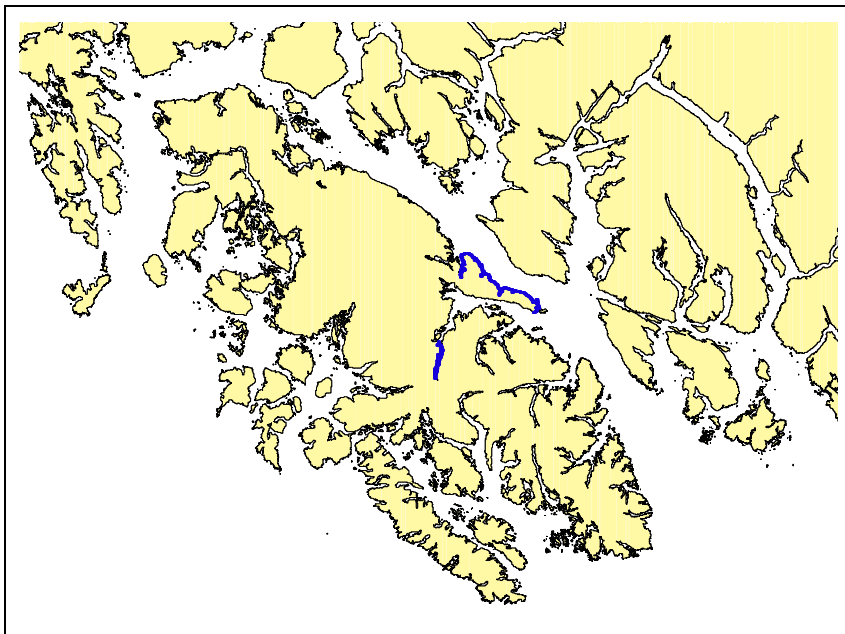
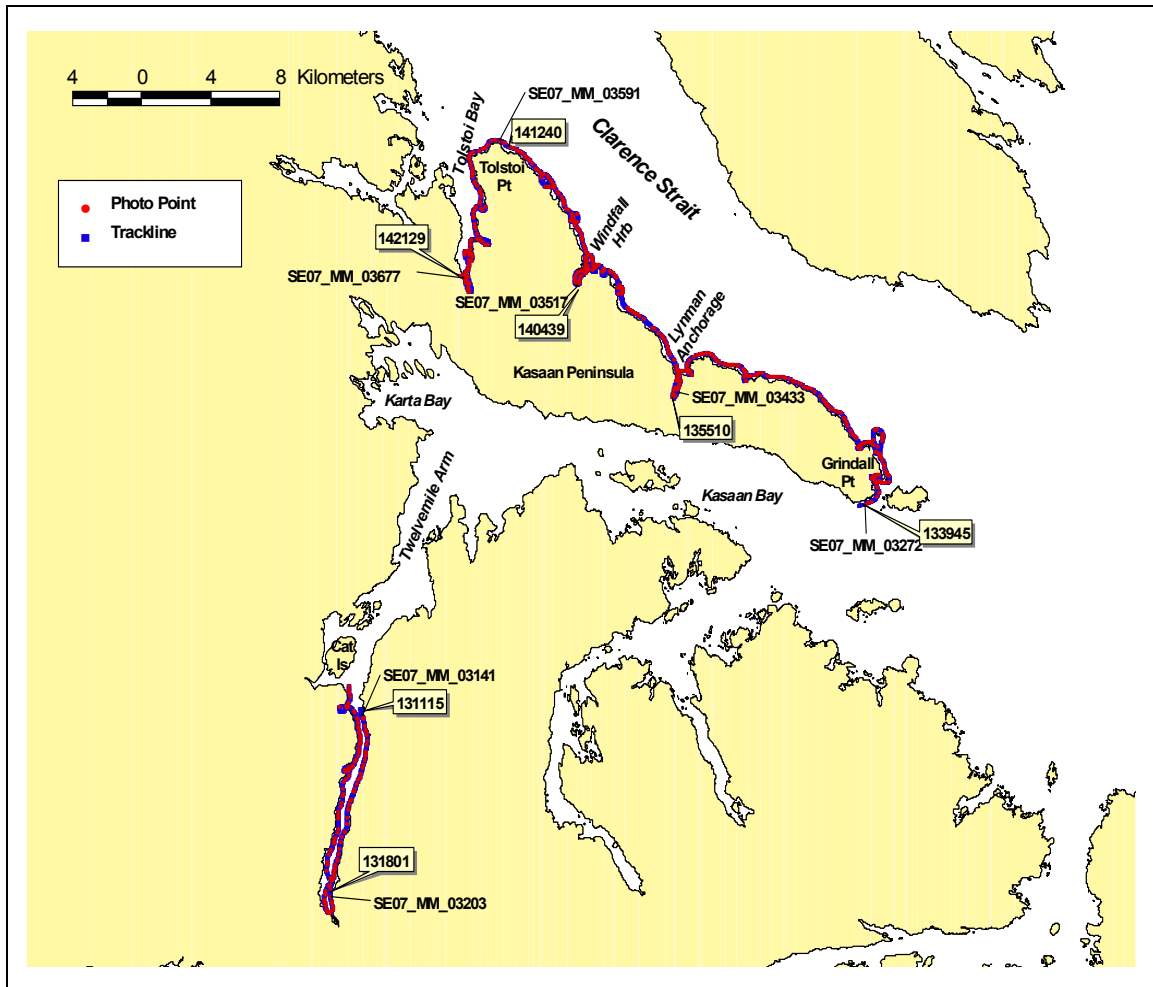
**Team Tokeen (TK)
Tape Log**

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

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
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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

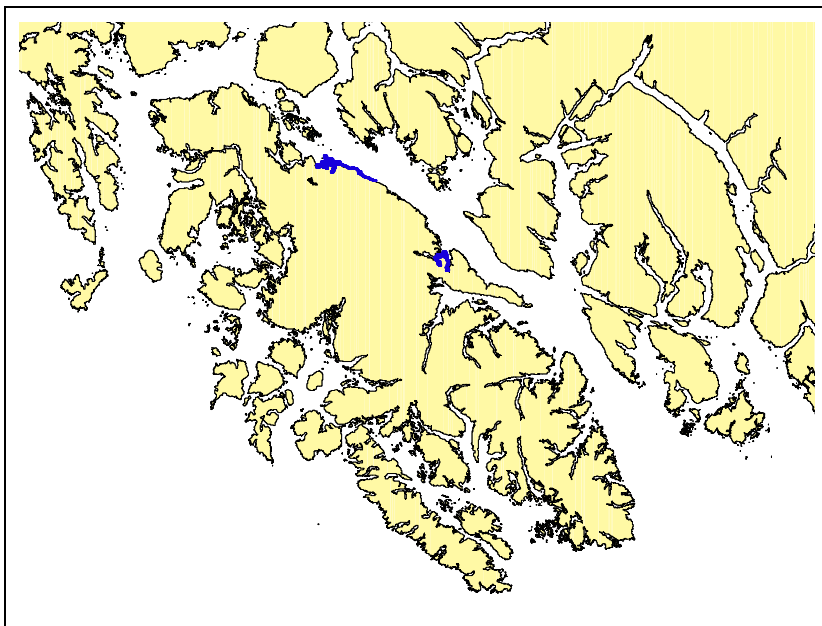
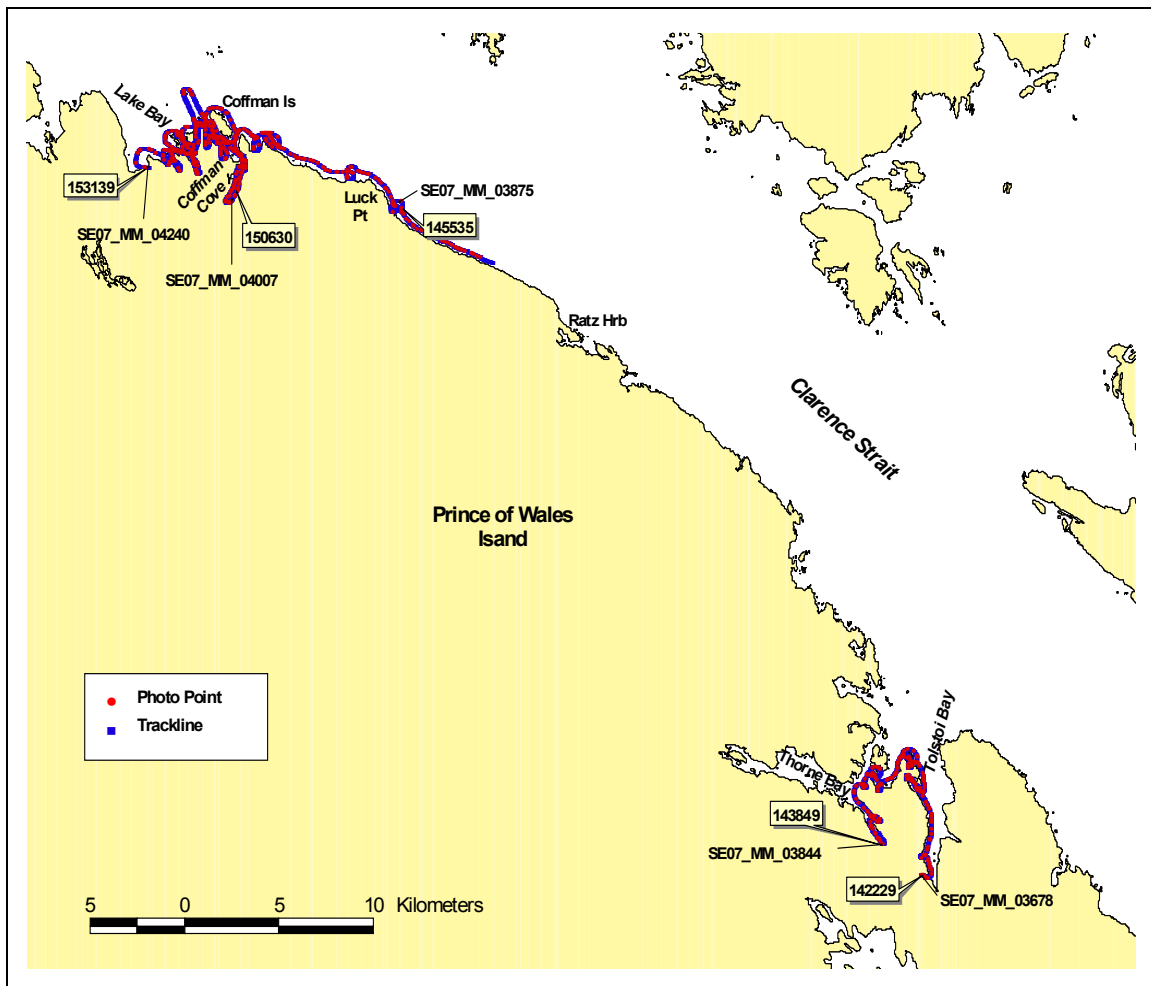
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
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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

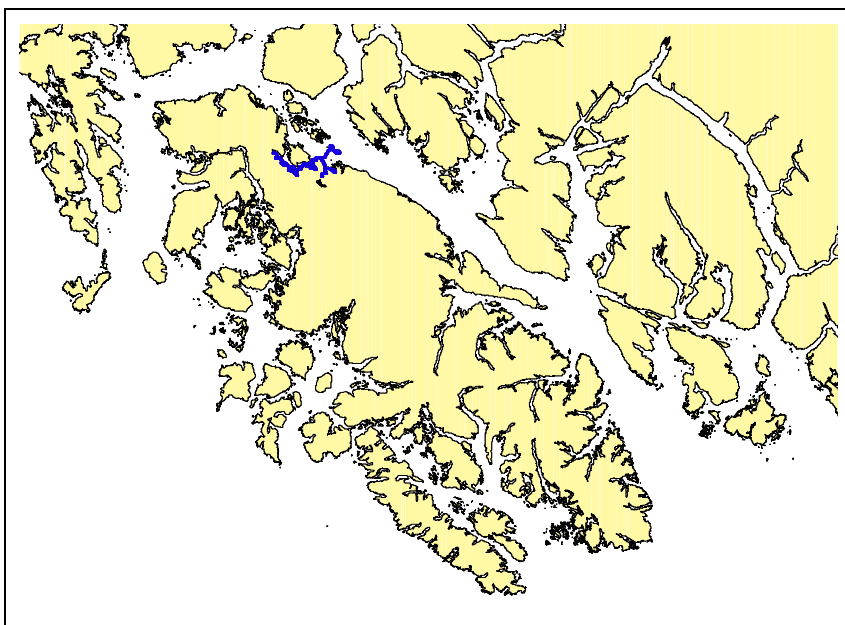
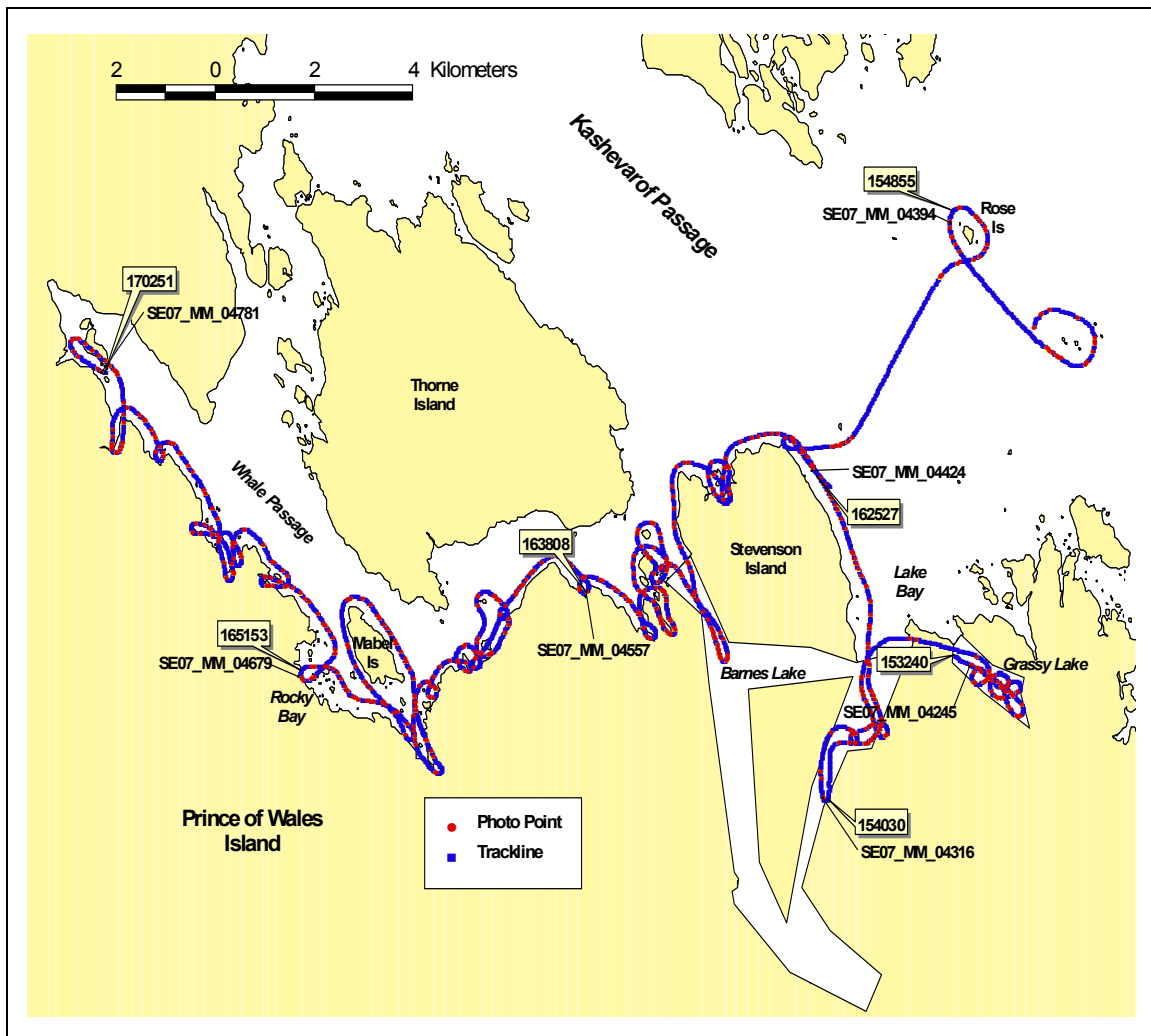
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
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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

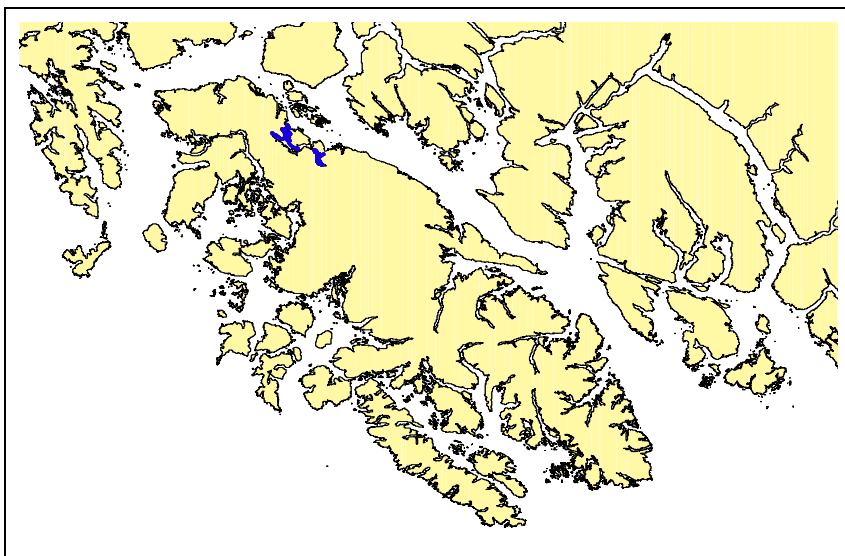
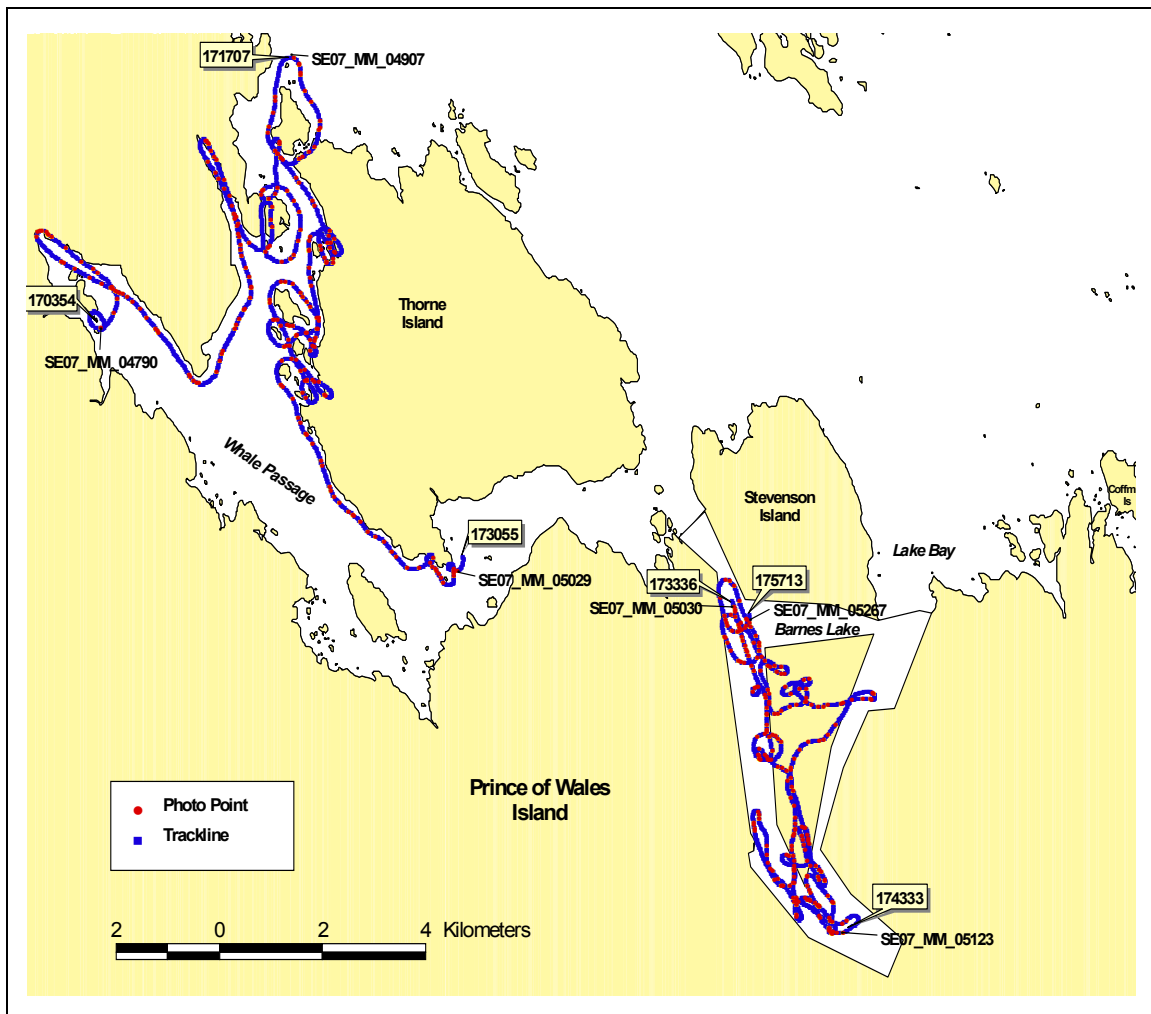
Geo: Harney/Daley

Bio: Morris

Nav: Daley/Harney

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
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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

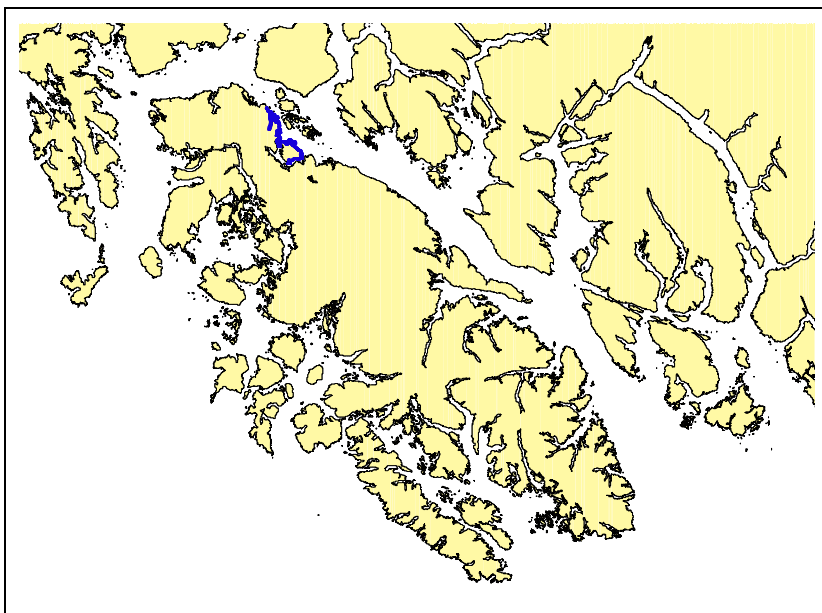
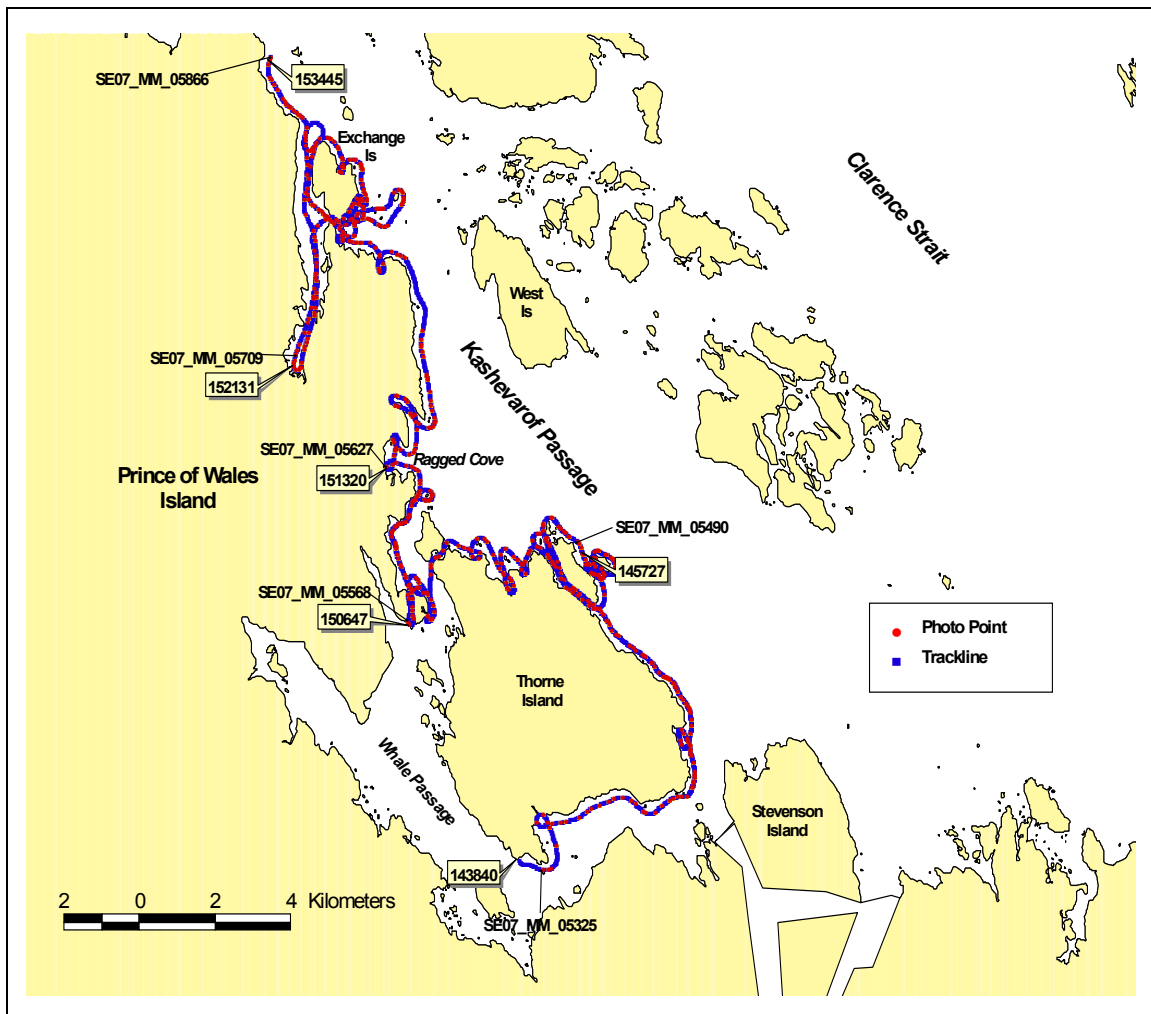
Geo: Daley

Bio: Morris

Nav: Harney

Weather: Fog in morning, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
July 12-17, 2007**

**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

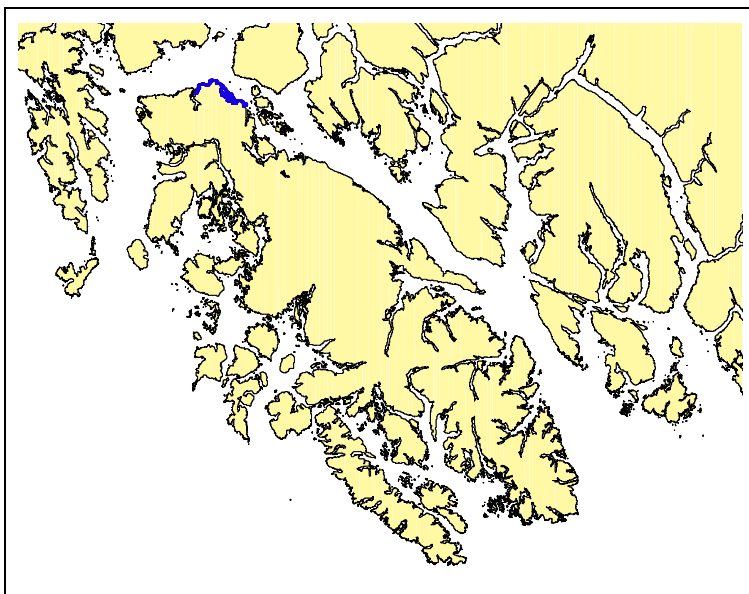
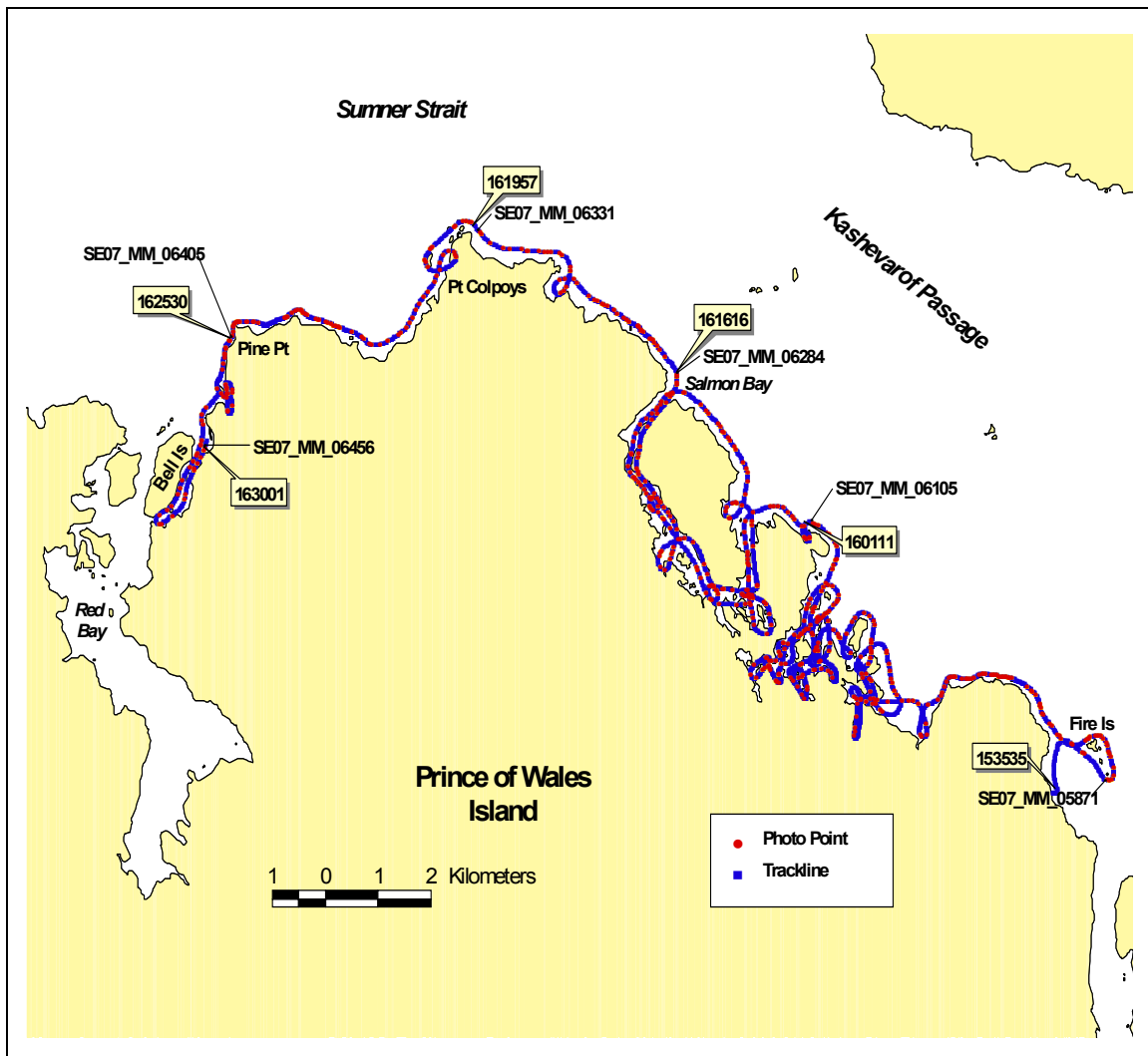
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
July 12-17, 2007**

**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

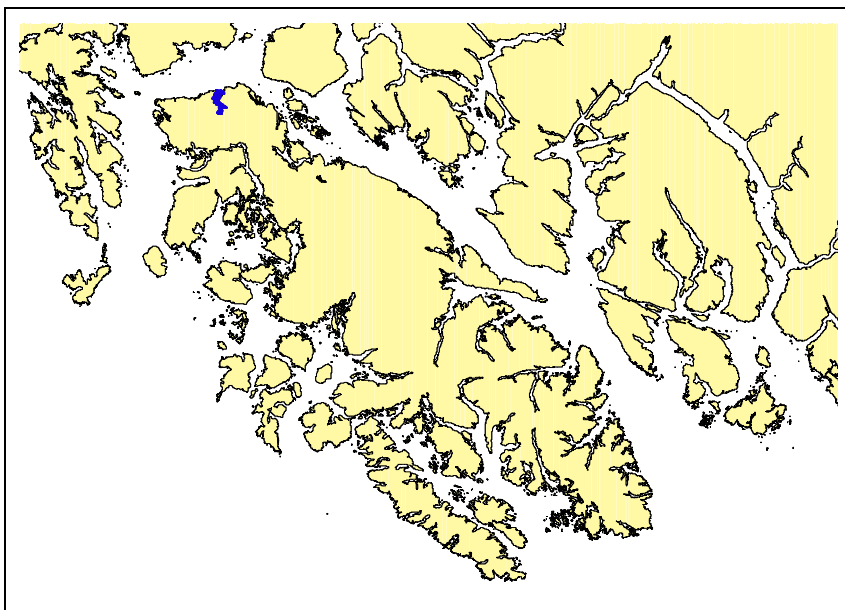
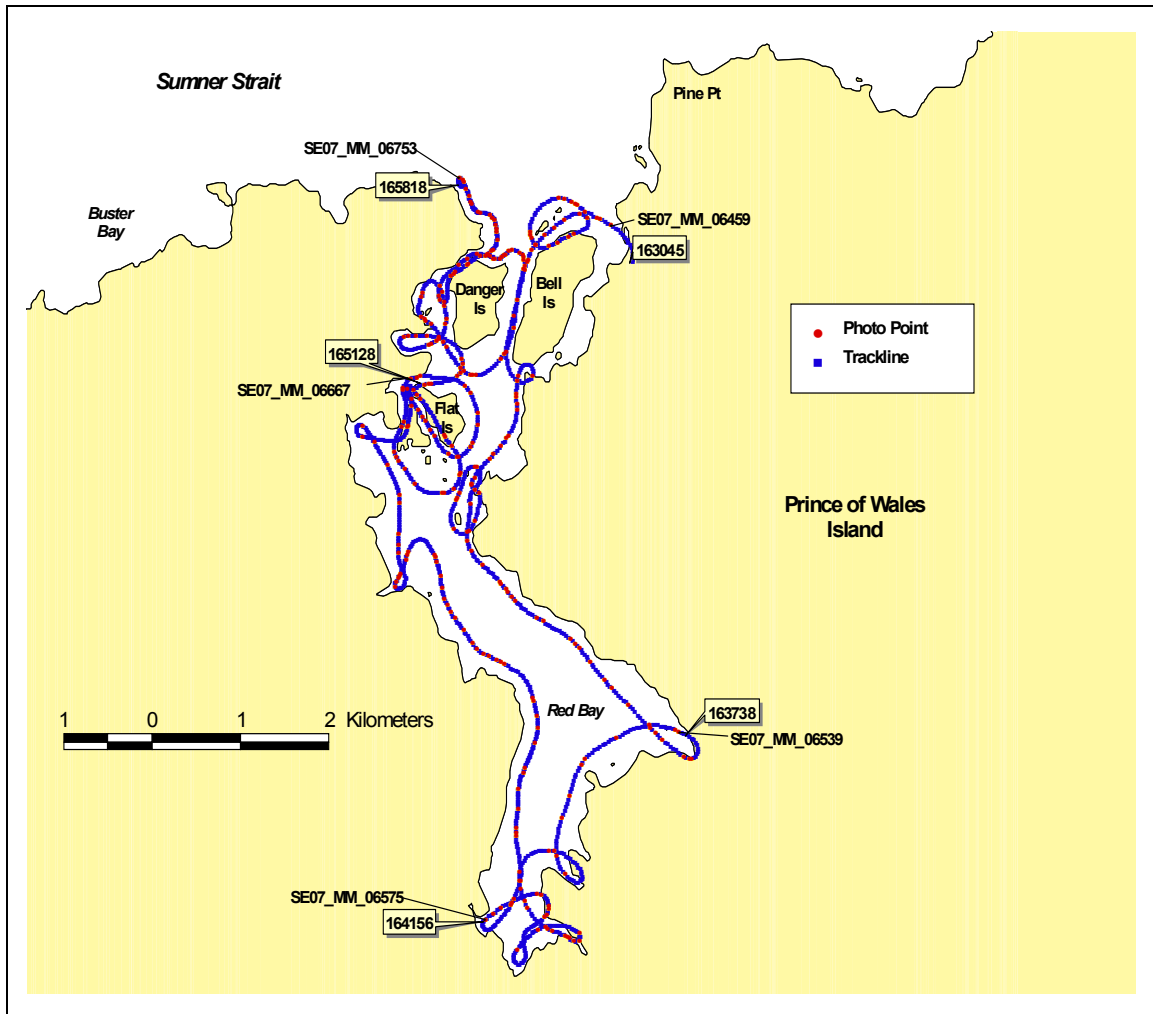
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
July 12-17, 2007**

**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

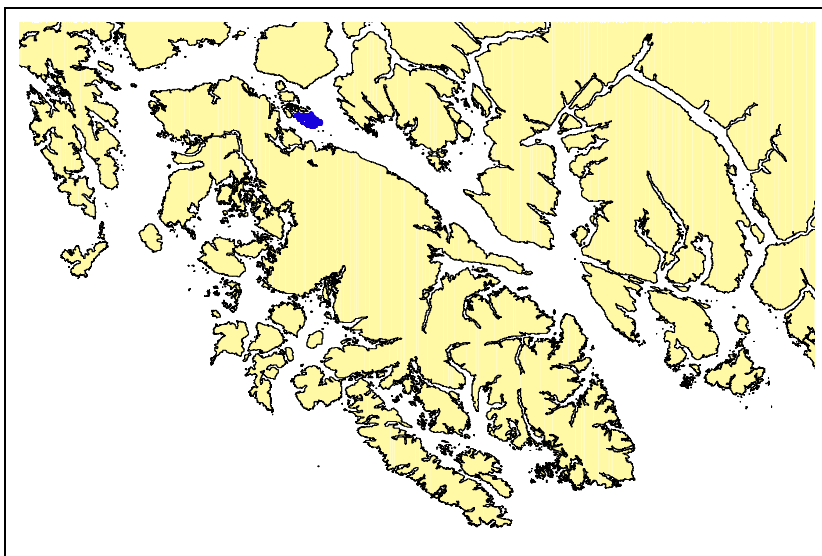
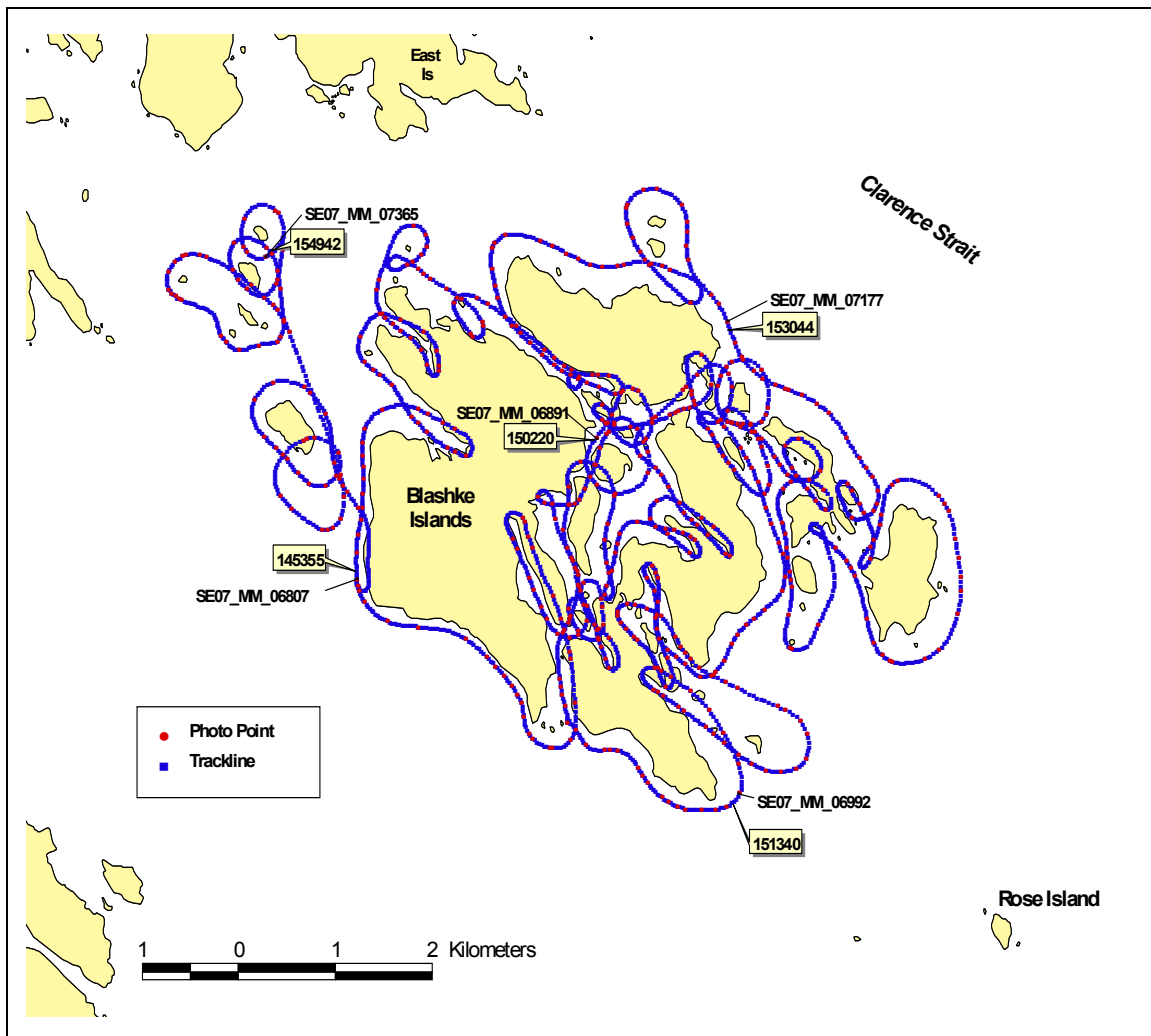
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
July 12-17, 2007**

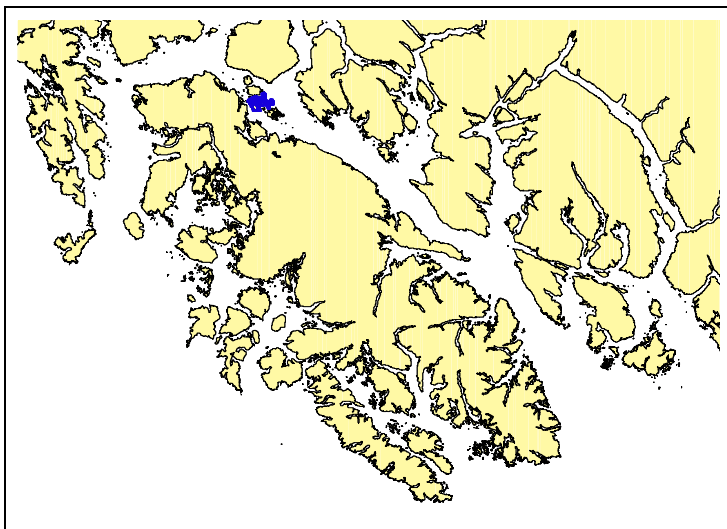
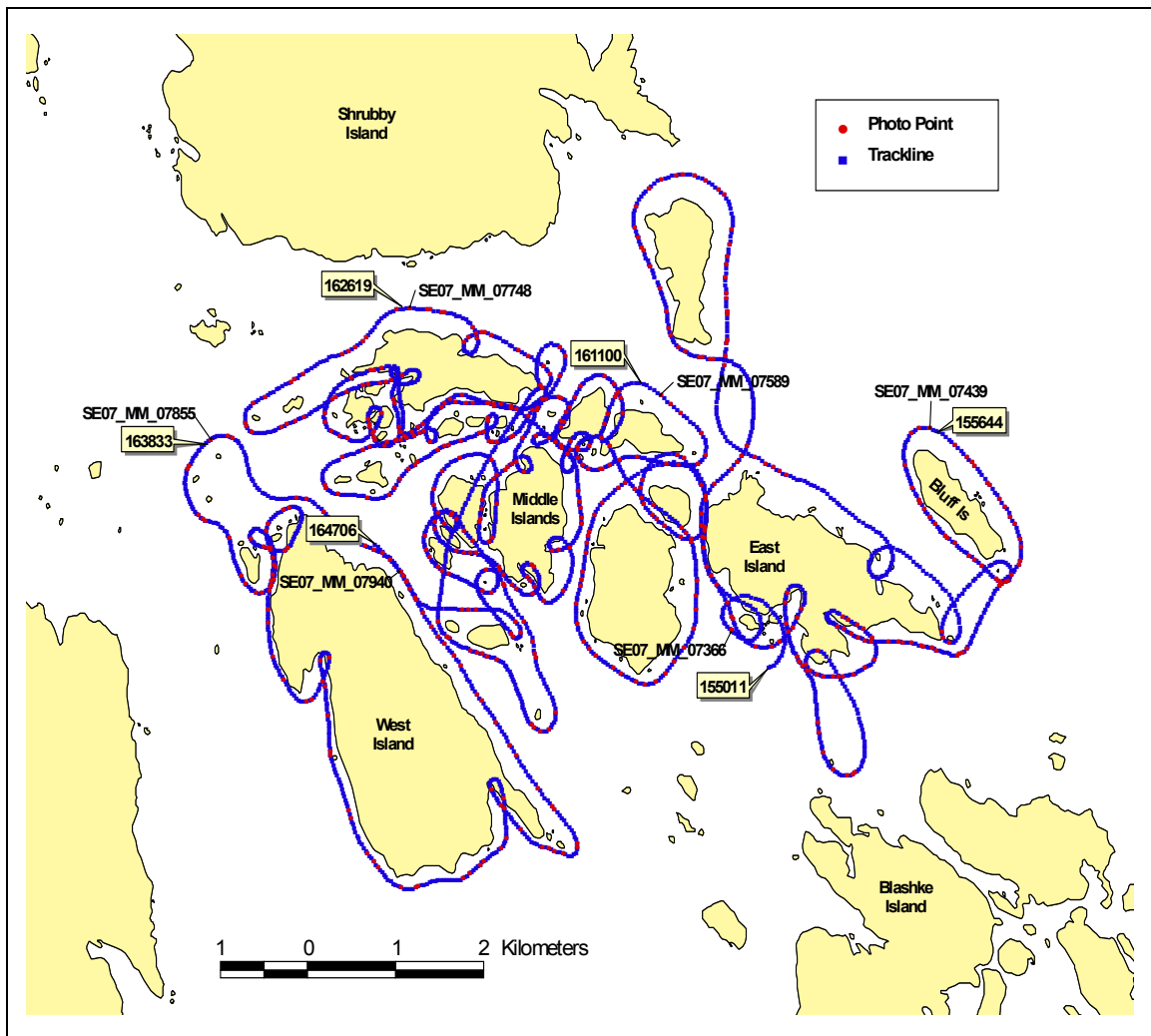
**Team Tokeen (TK)
Tape Log**

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

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
July 12-17, 2007**

**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

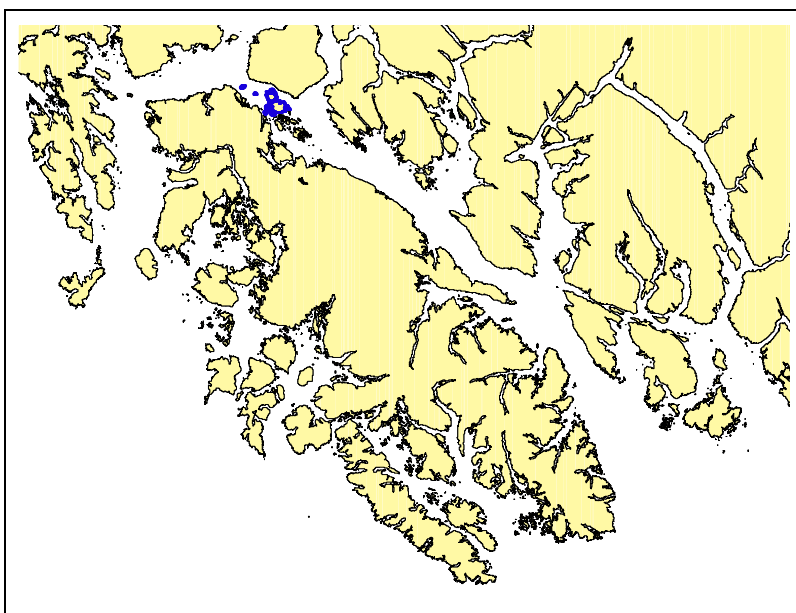
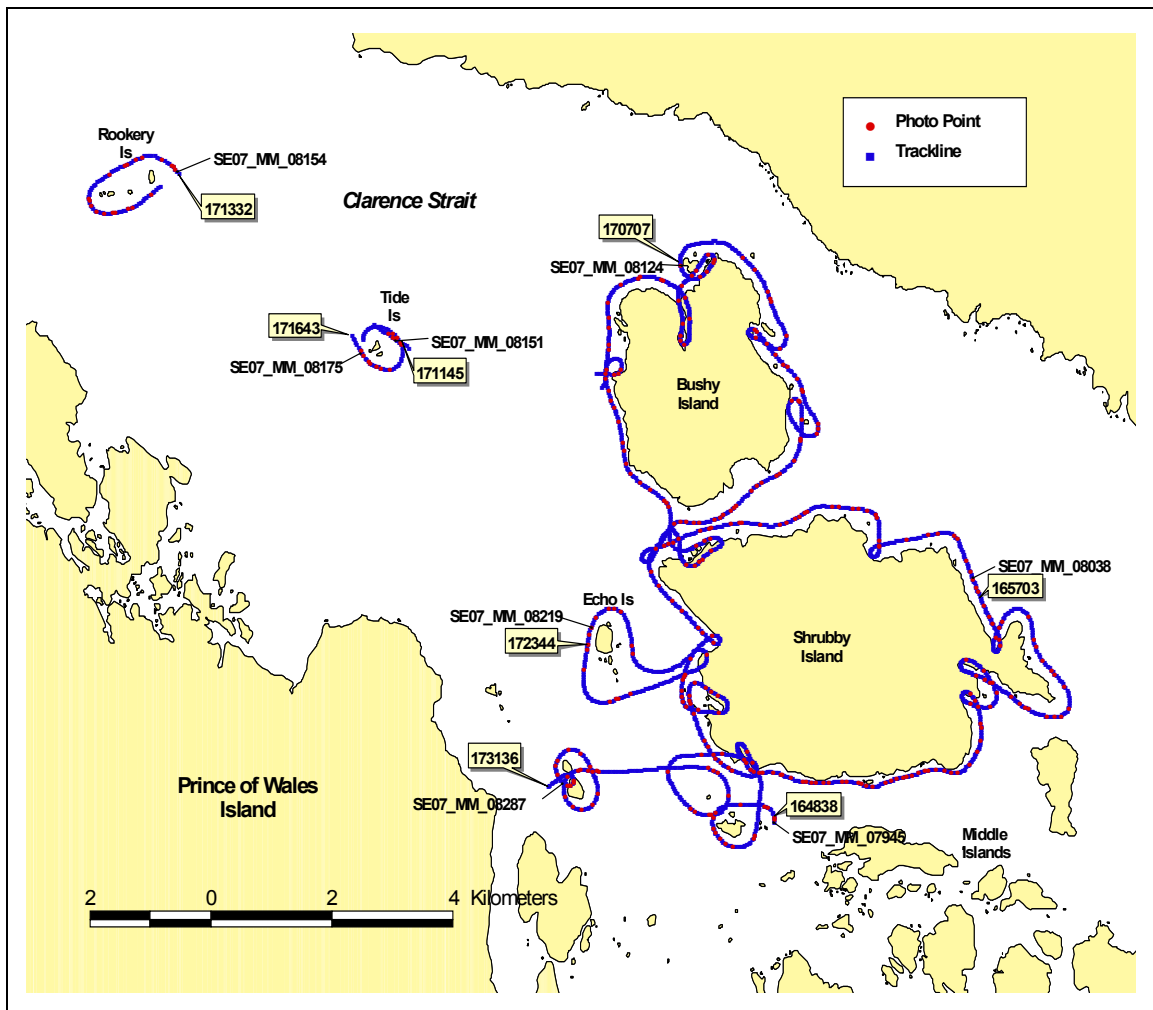
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
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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

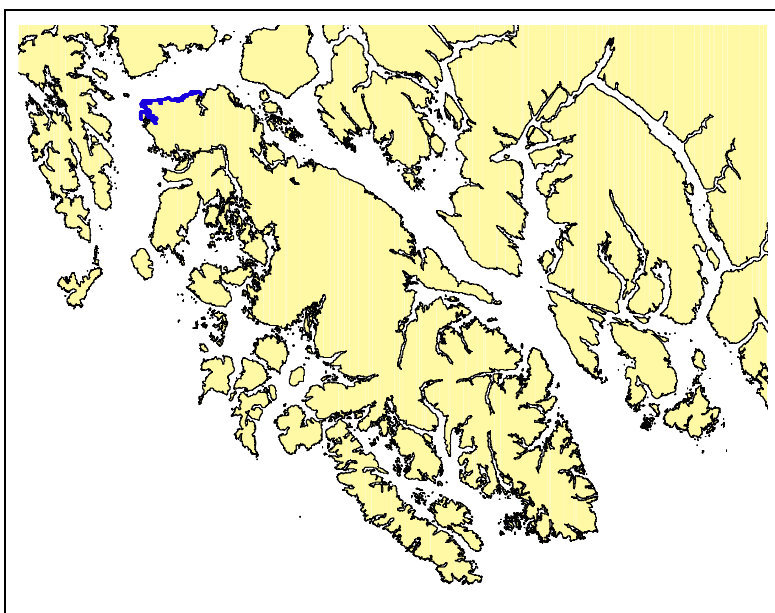
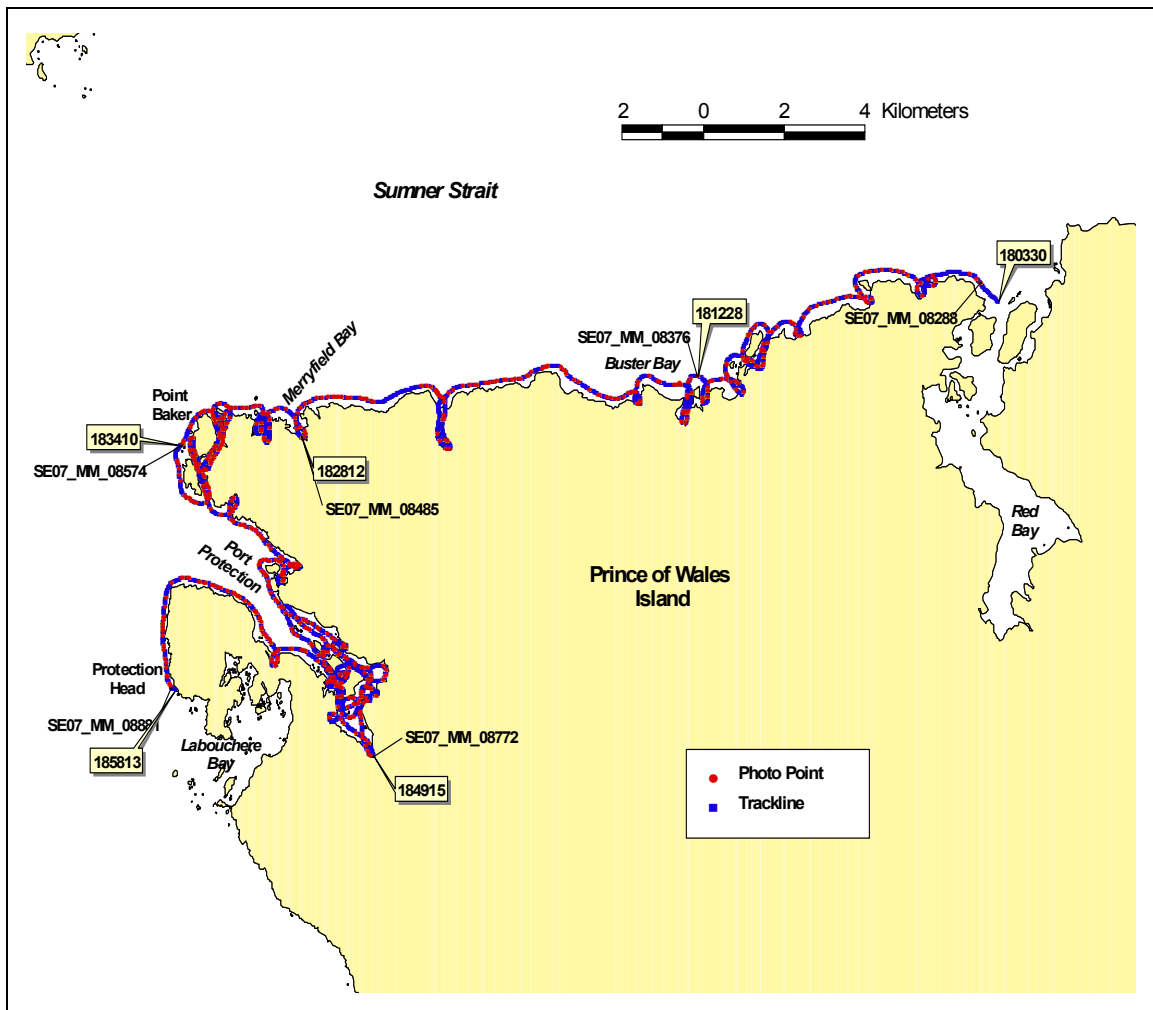
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
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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

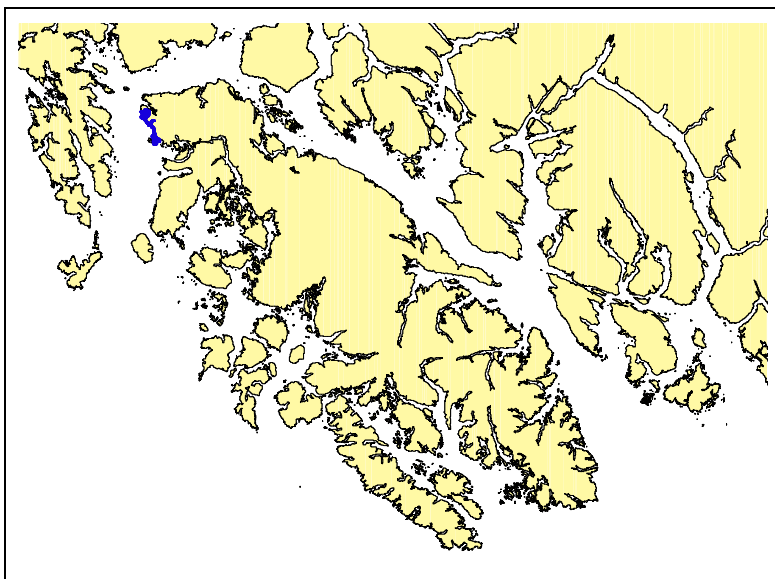
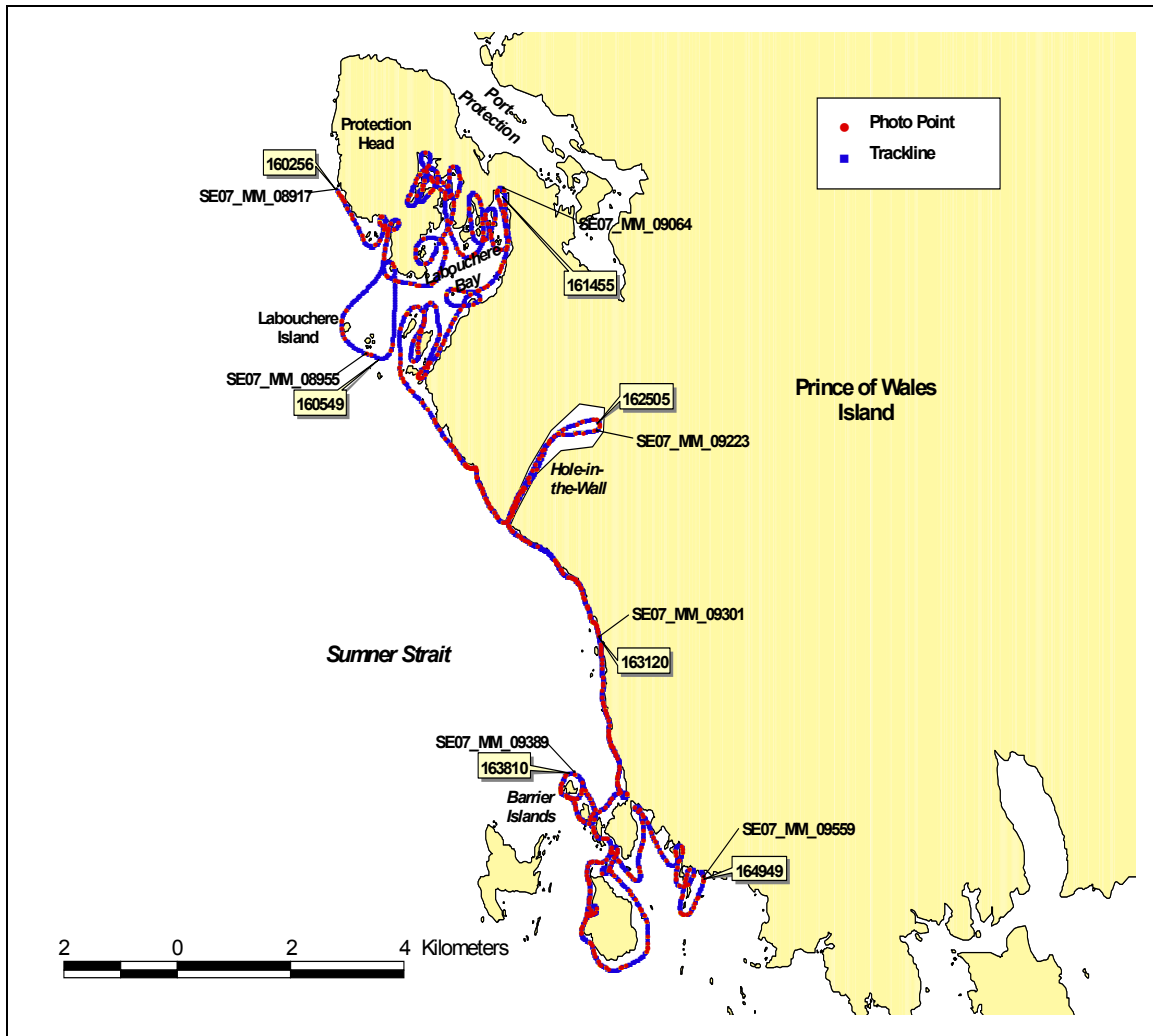
Geo: Daley

Bio: Morris

Nav: Harney

Weather: Fog, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
Prince of Wales Island, SE Alaska
July 12-17, 2007**

**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

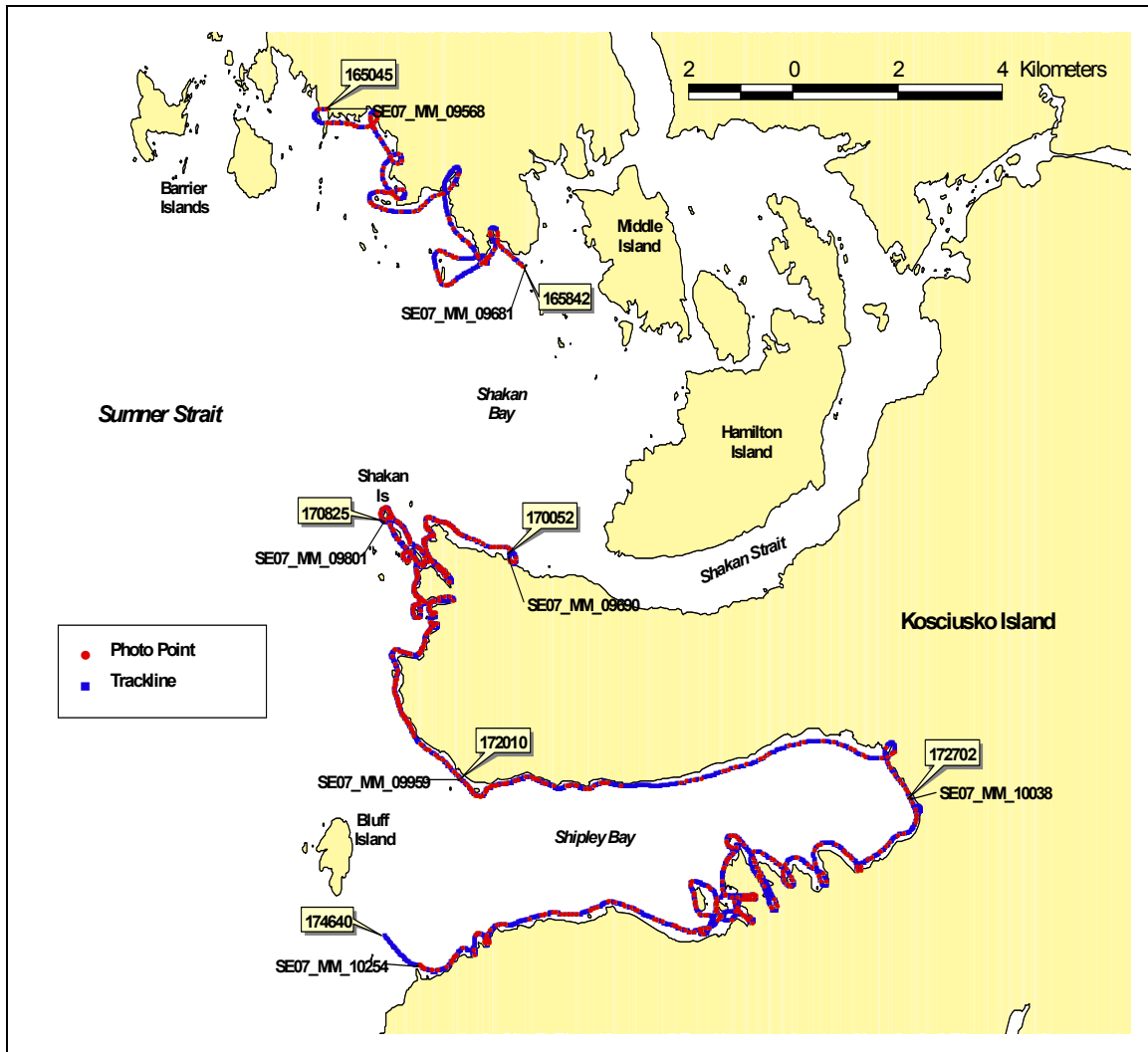
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
July 12-17, 2007**

**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

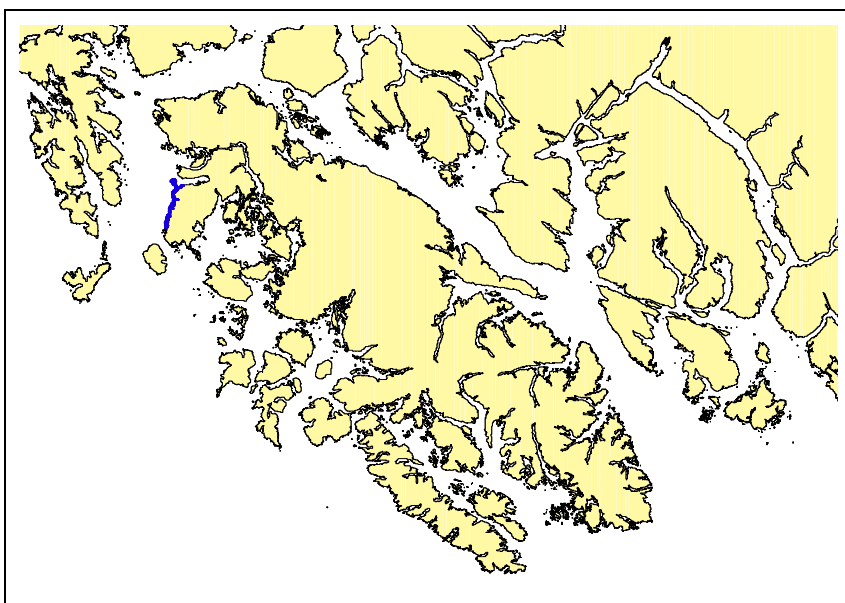
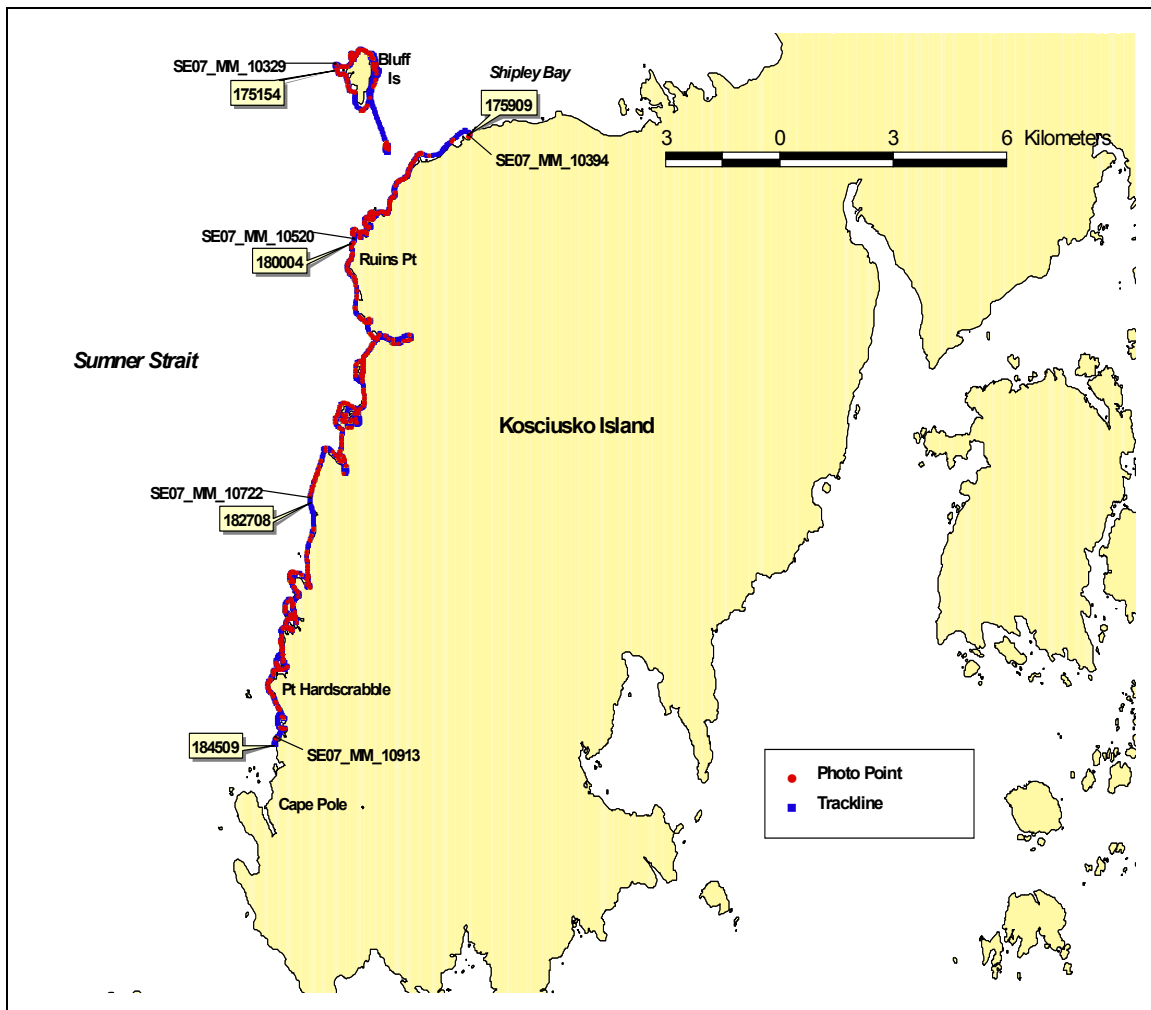
Geo: Harney

Bio: Morris

Nav: Daley

Weather: Fog, low ceiling, intermittent visibility

Time (UTC)	Location	Photo No.
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
July 12-17, 2007**

**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

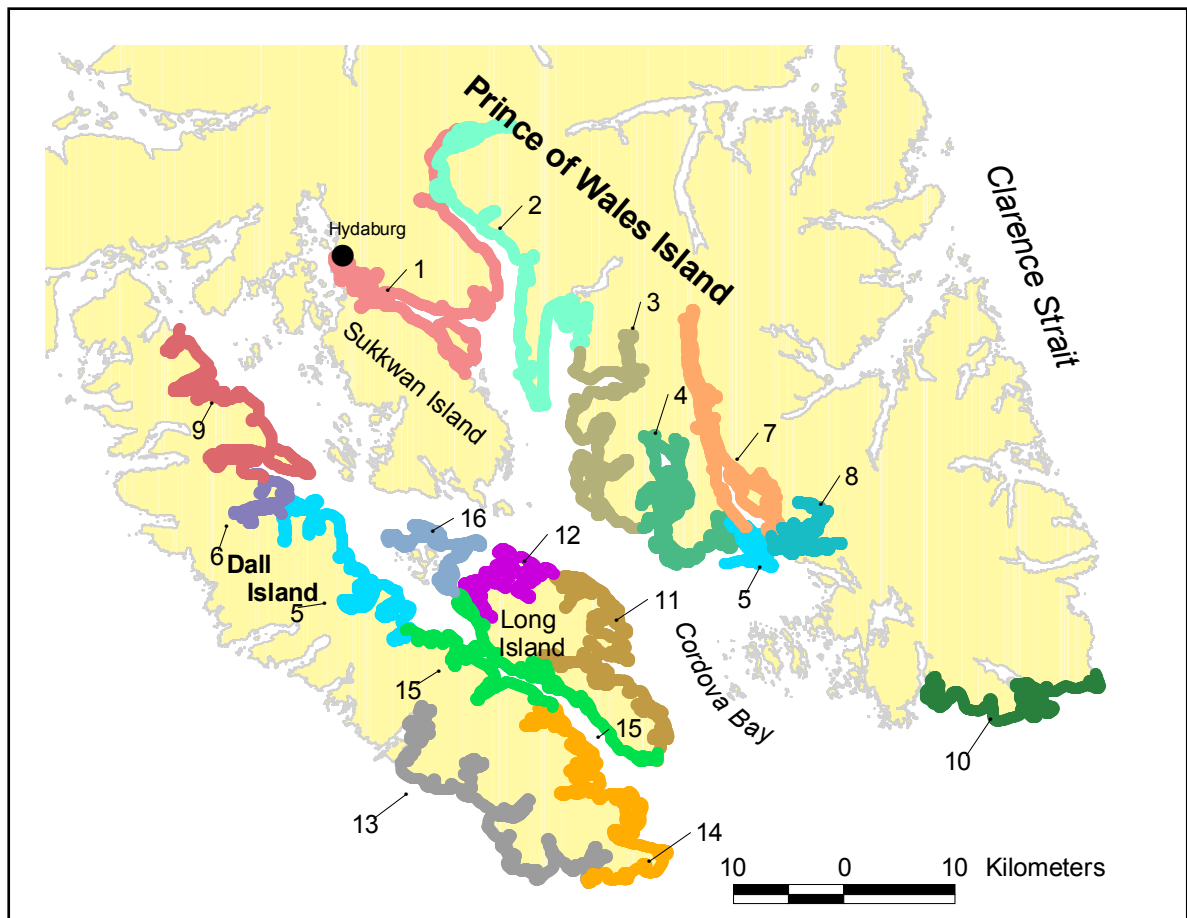
Nav: Daley/Harney

Weather: Fog, low ceiling, intermittent visibility

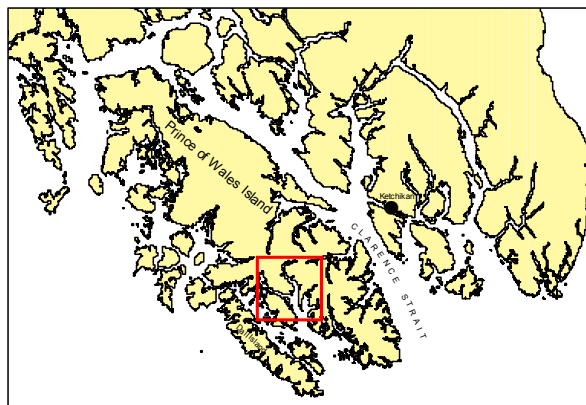
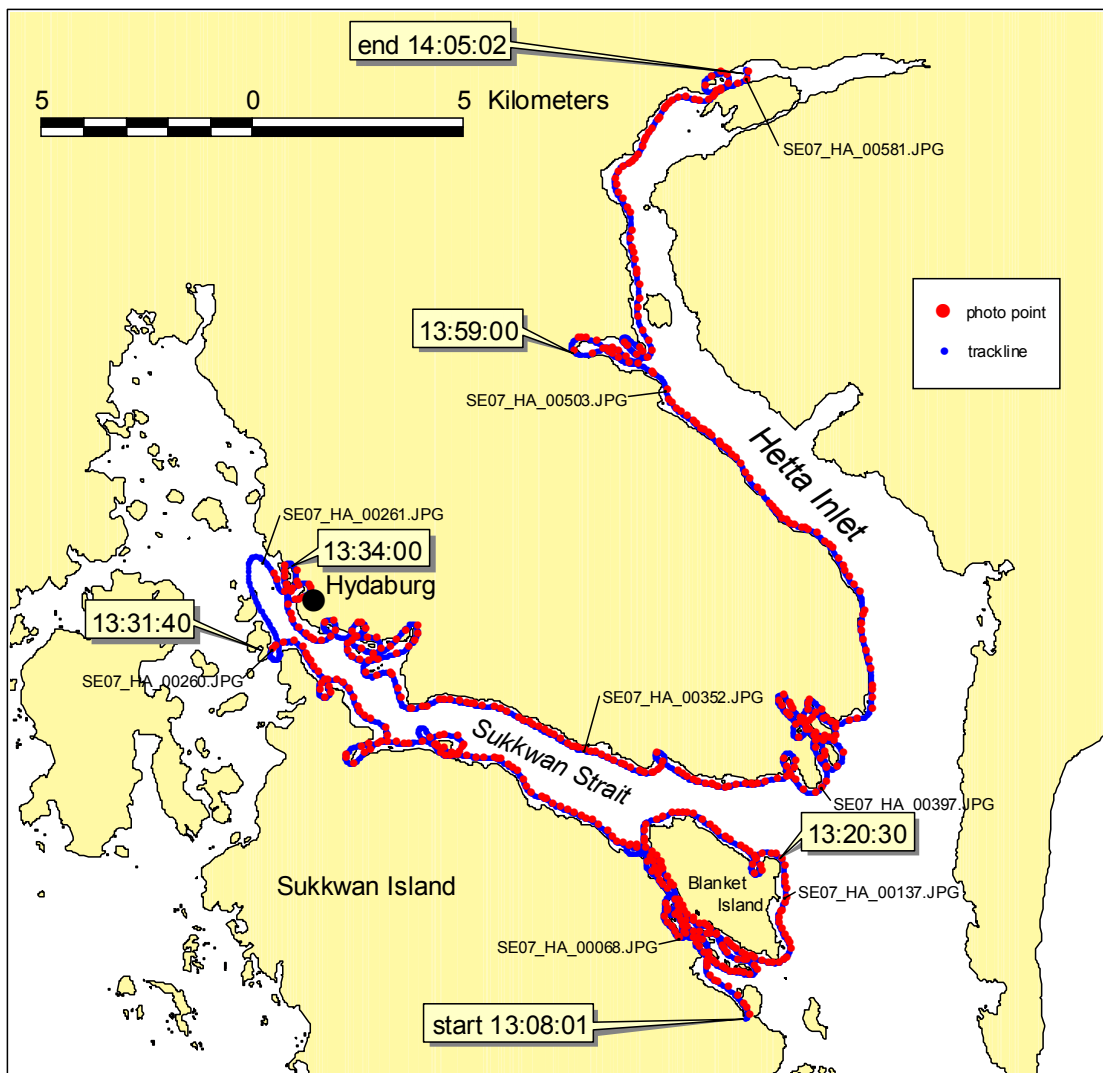
Time (UTC)	Location	Photo No.
174737	Start of tape: Bluff Island	SE07_MM_10267
175909	Entrance of Shipley Bay	SE07_MM_10394
	Transit 175718 to 175908	
180004	Ruins Pt	SE07_MM_10520
	Break 181521 to 181820	
182708	West Kosciuska Island	SE07_MM_10722
184509	End of tape: Pt Hardscrabble	SE07_MM_10913

**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

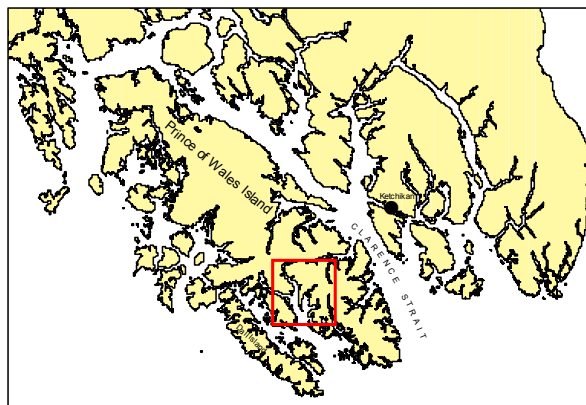
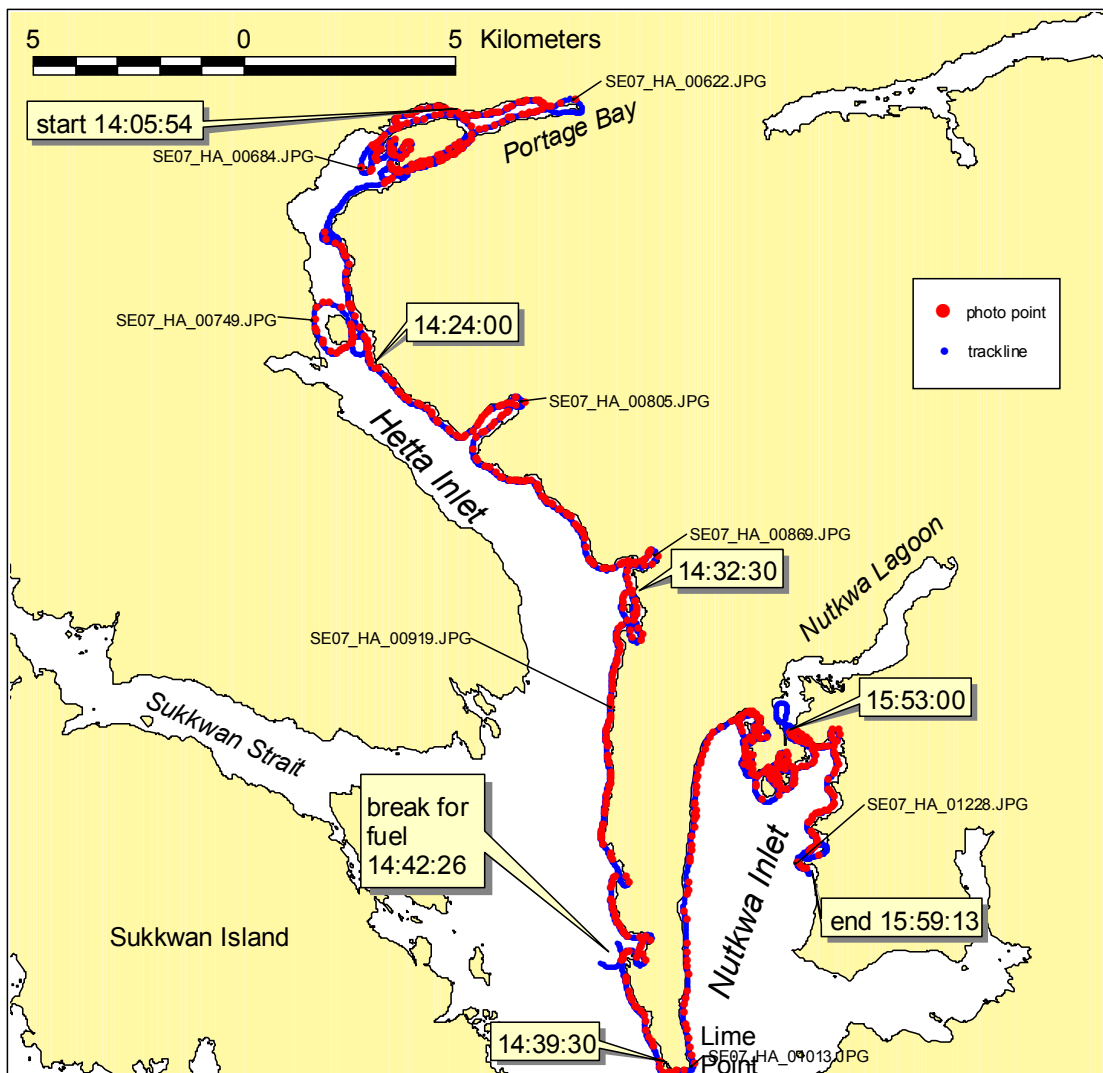
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Low ceiling; intermittent visibility

Time (UTC)	Location	Photo
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**

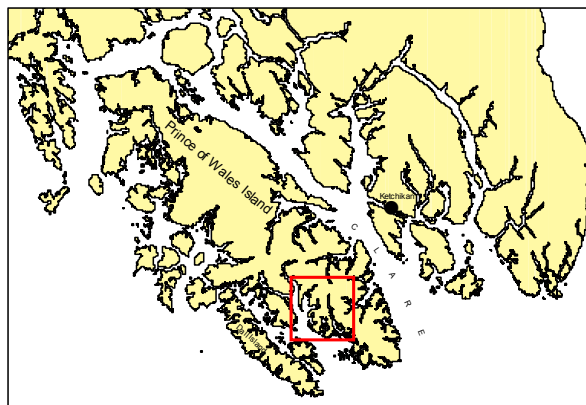
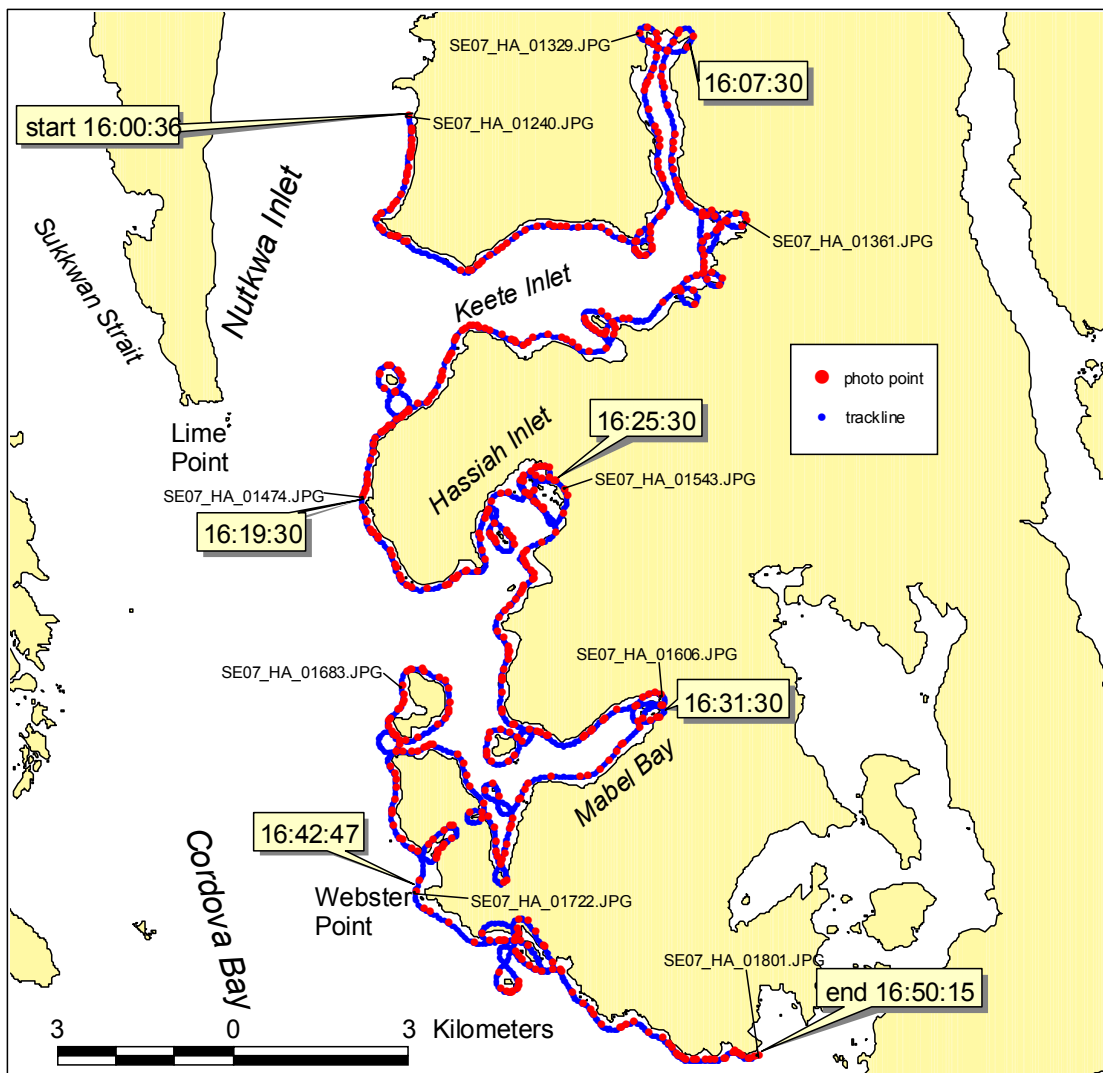
Tape Number: SE07_DL_02

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

Time (UTC)	Location	Photo
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

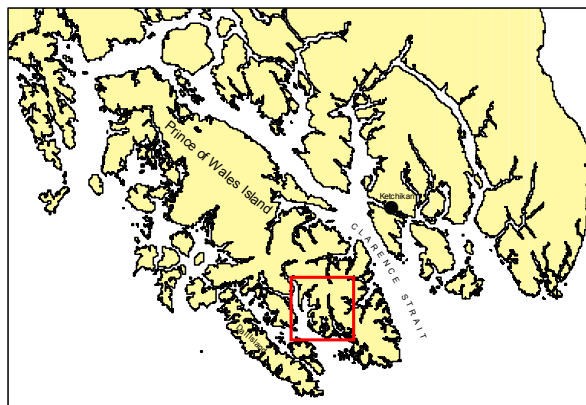
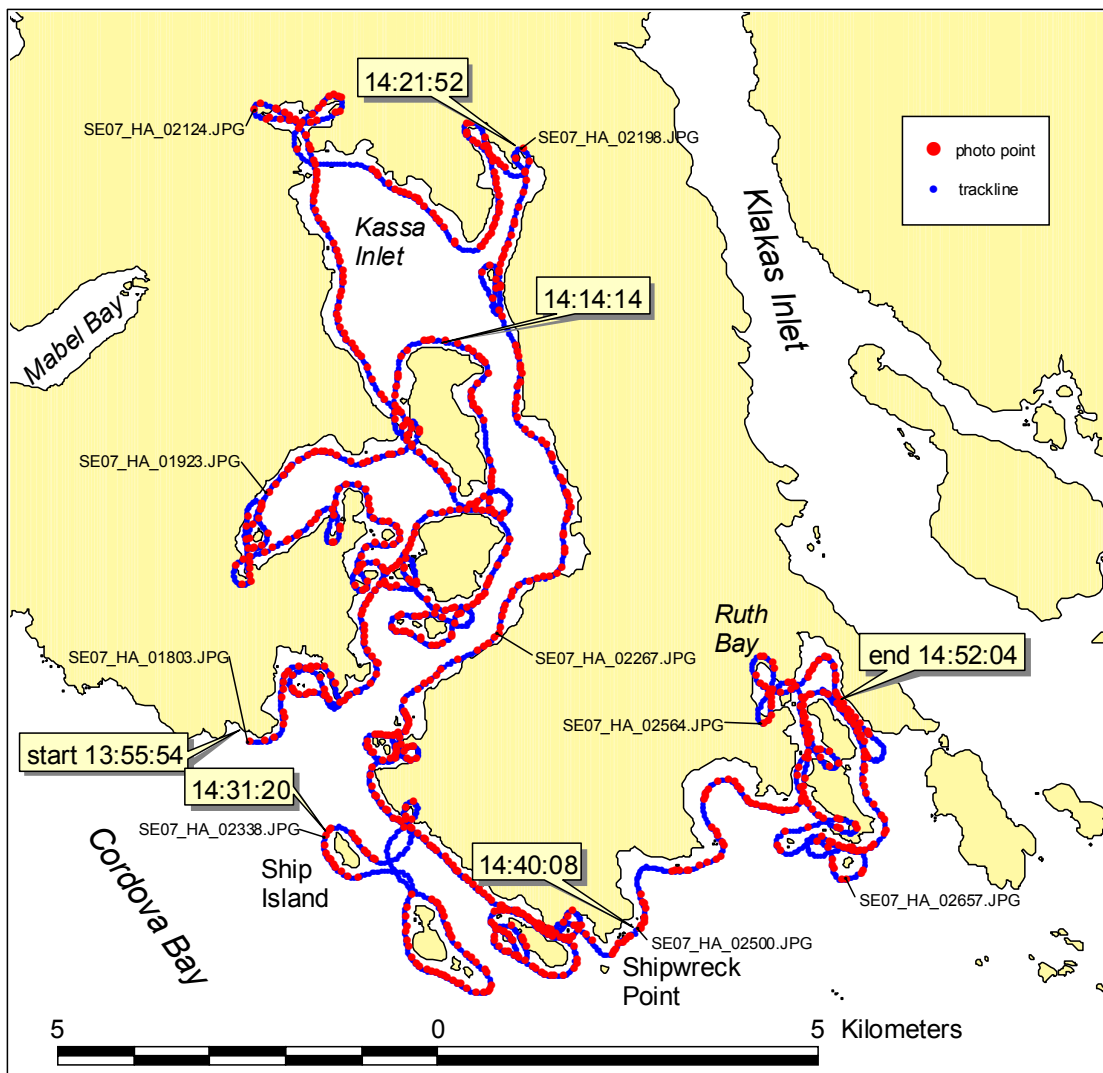
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Low ceiling; intermittent visibility

Time (UTC)	Location	Photo
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
July 12-17, 2007**

**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

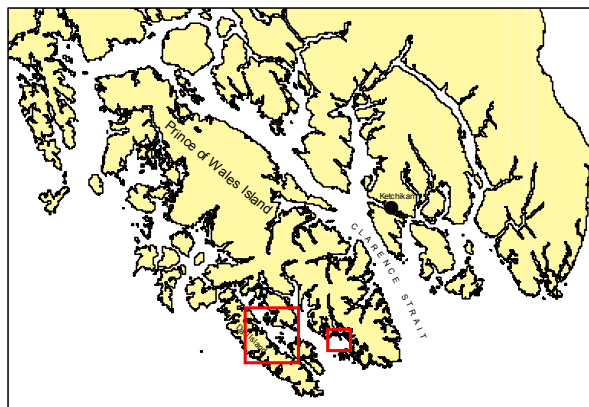
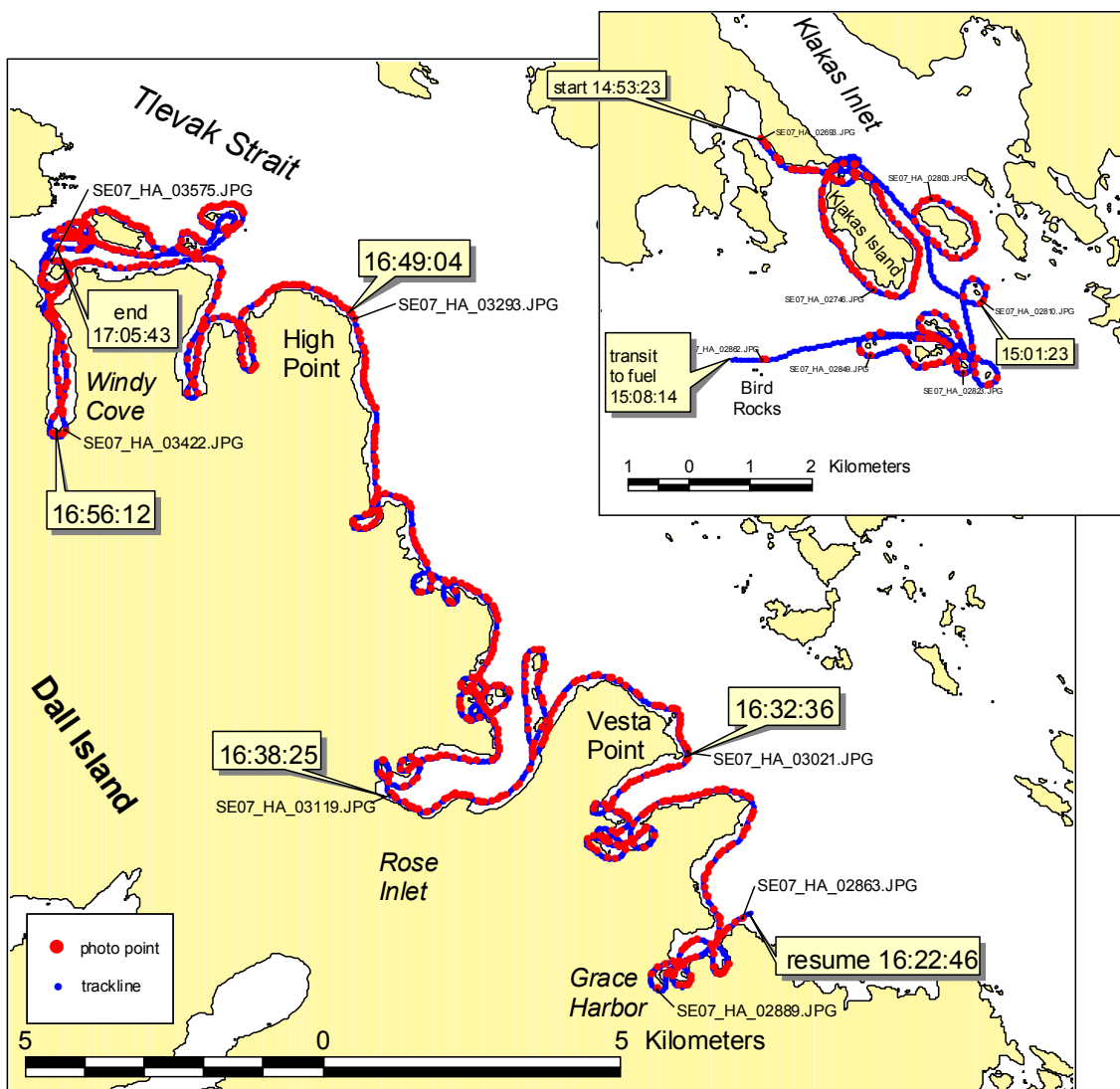
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Low ceiling; intermittent visibility

Time (UTC)	Location	Photo
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

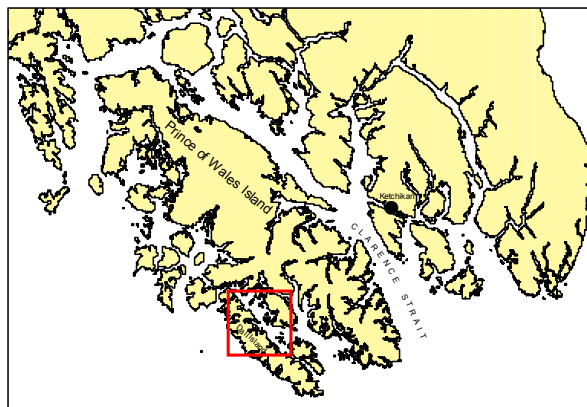
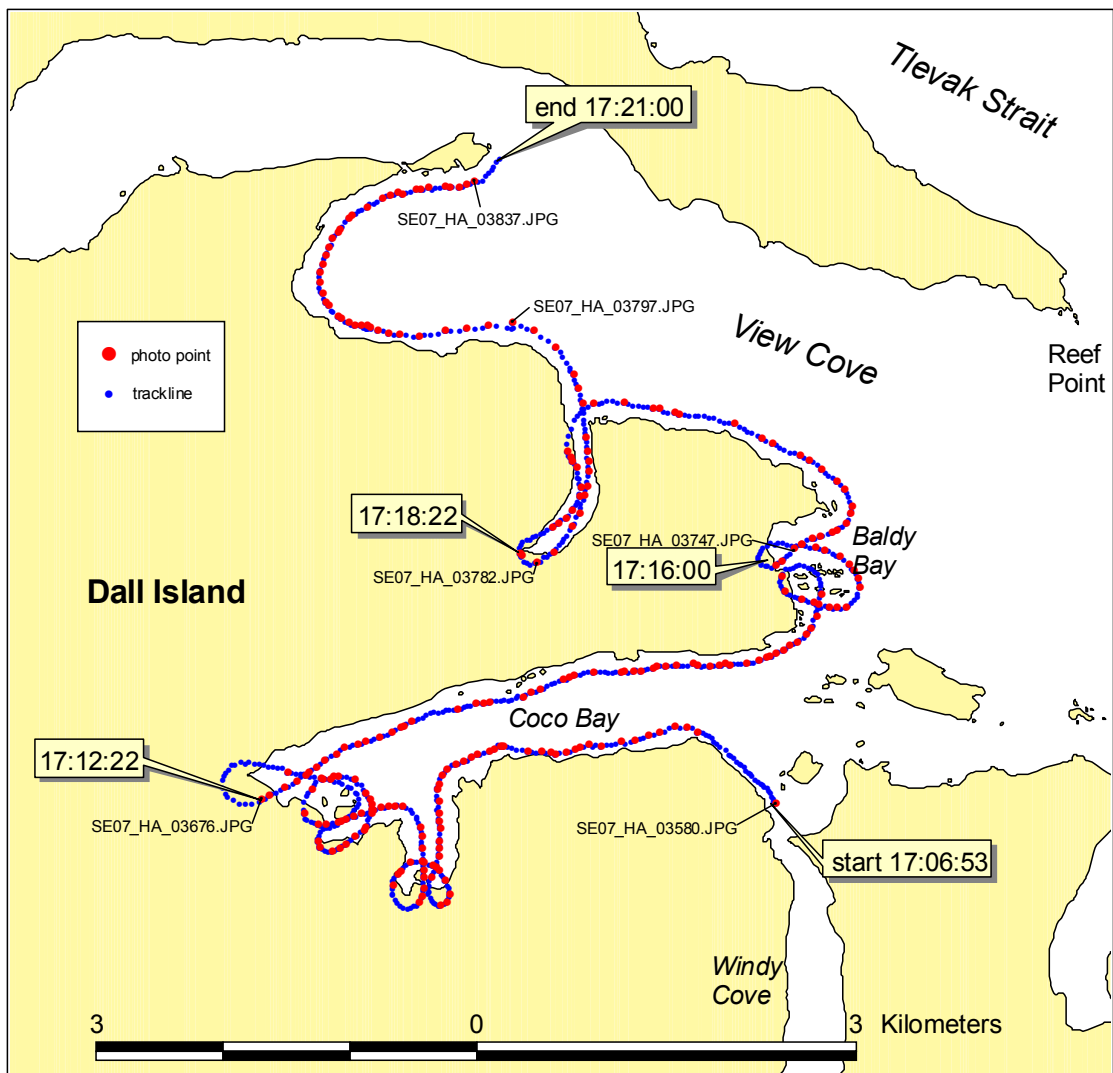
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Low ceiling; intermittent visibility

Time (UTC)	Location	Photo
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

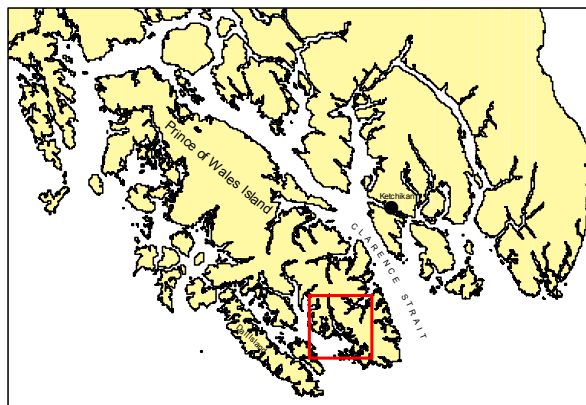
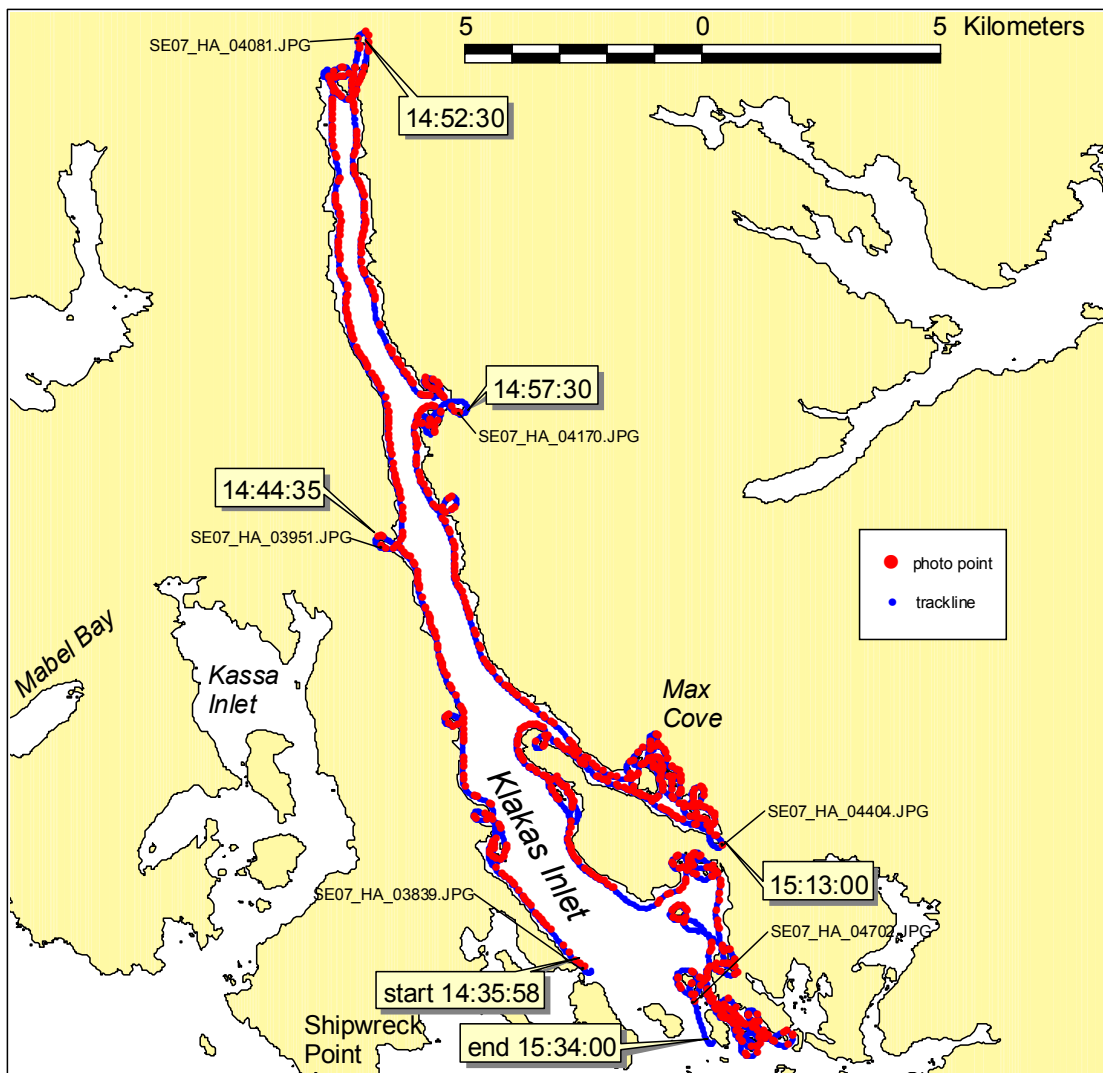
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Low ceiling; intermittent visibility

Time (UTC)	Location	Photo
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
Prince of Wales Island, SE Alaska
July 12-17, 2007**

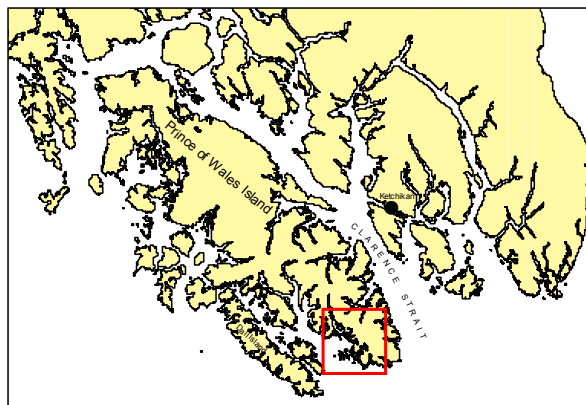
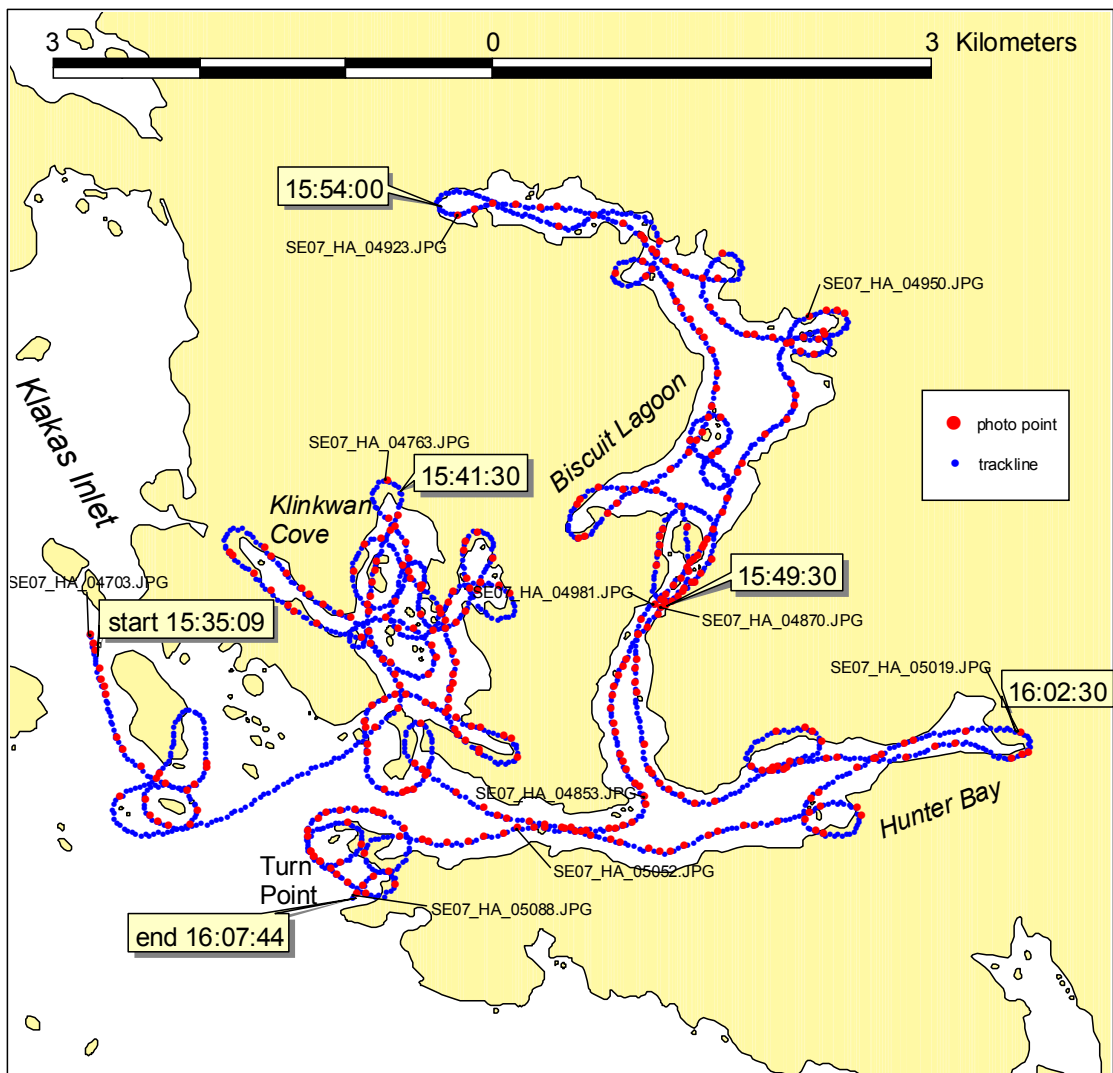
**Team Dall (DL)
Tape Log**

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

Time (UTC)	Location	Photo
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
July 12-17, 2007**

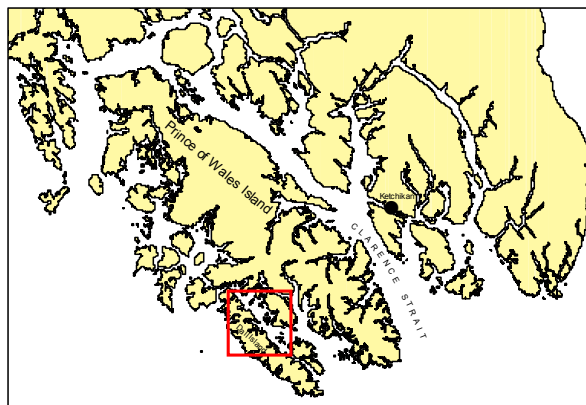
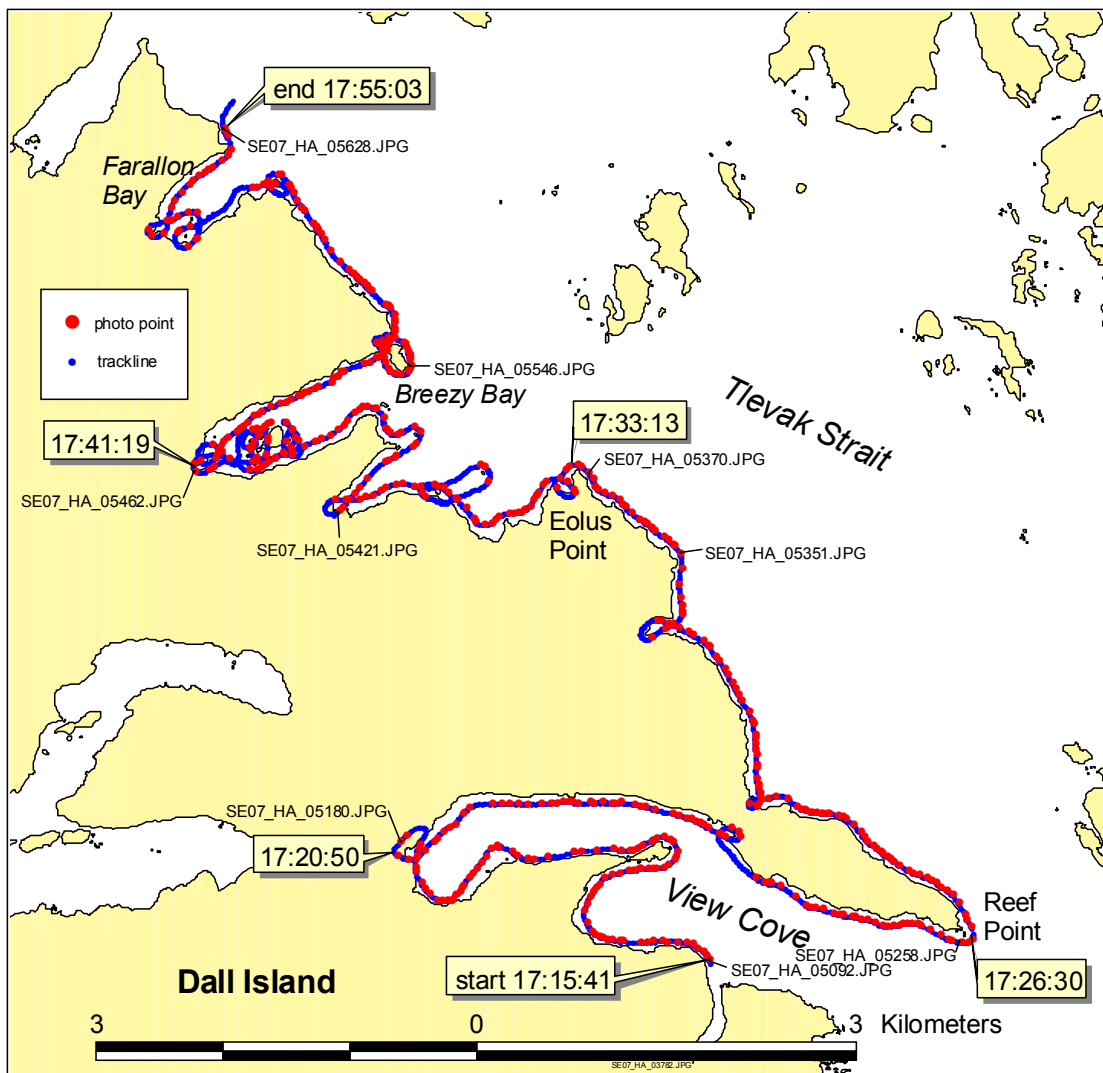
**Team Dall (DL)
Tape Log**

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

Time (UTC)	Location	Photo
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

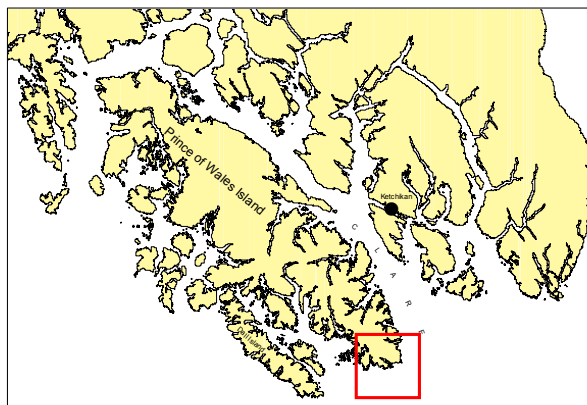
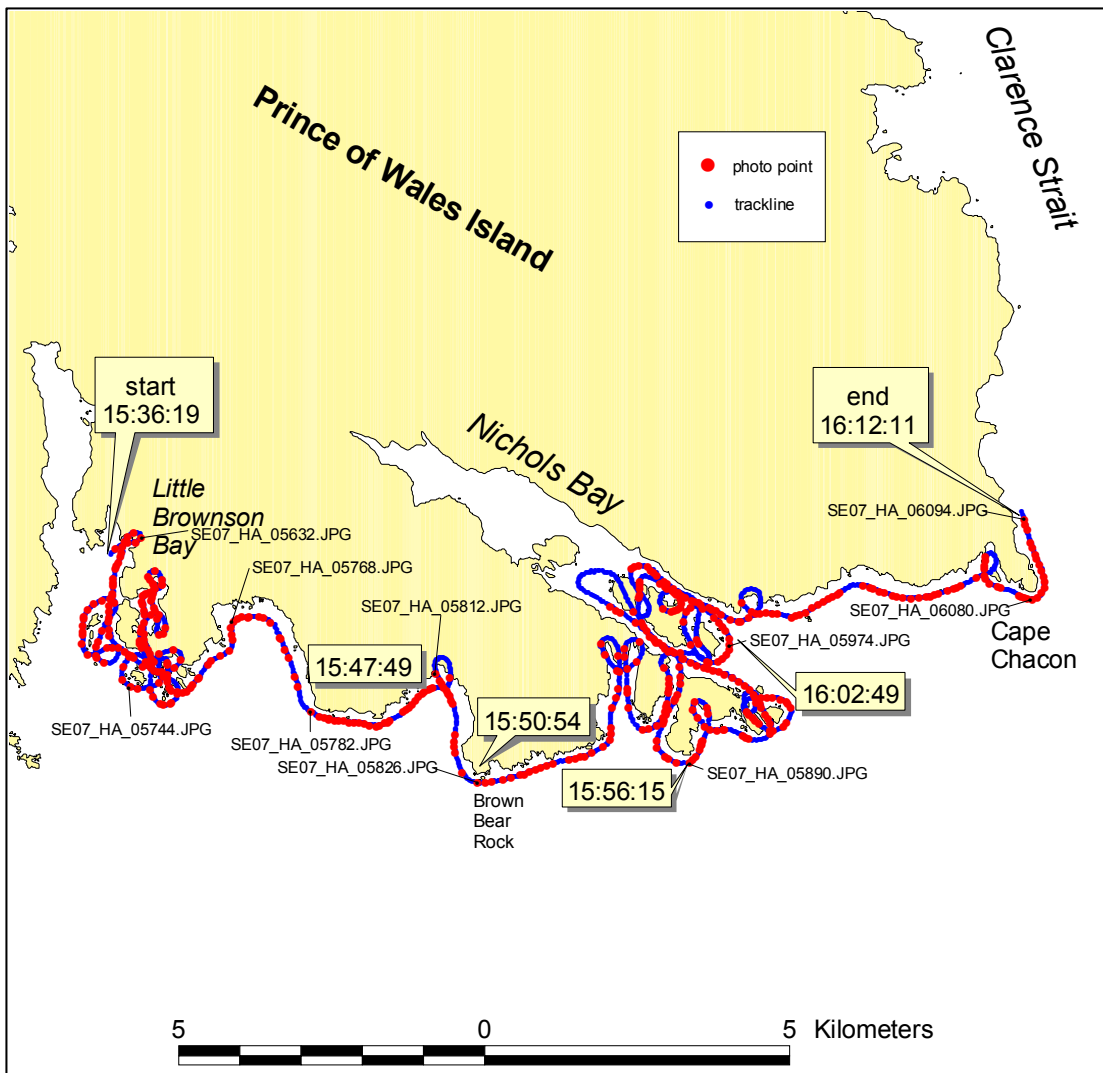
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Foggy but clearing.

Time (UTC)	Location	Photo
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

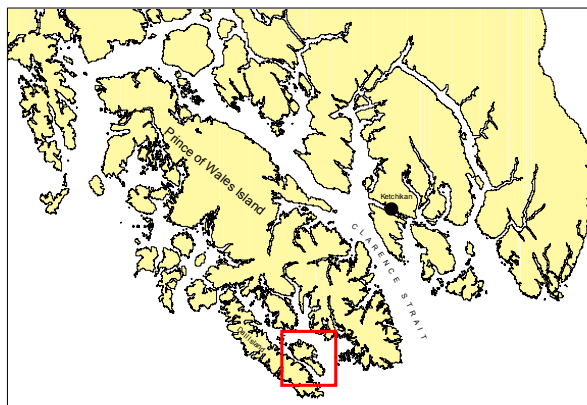
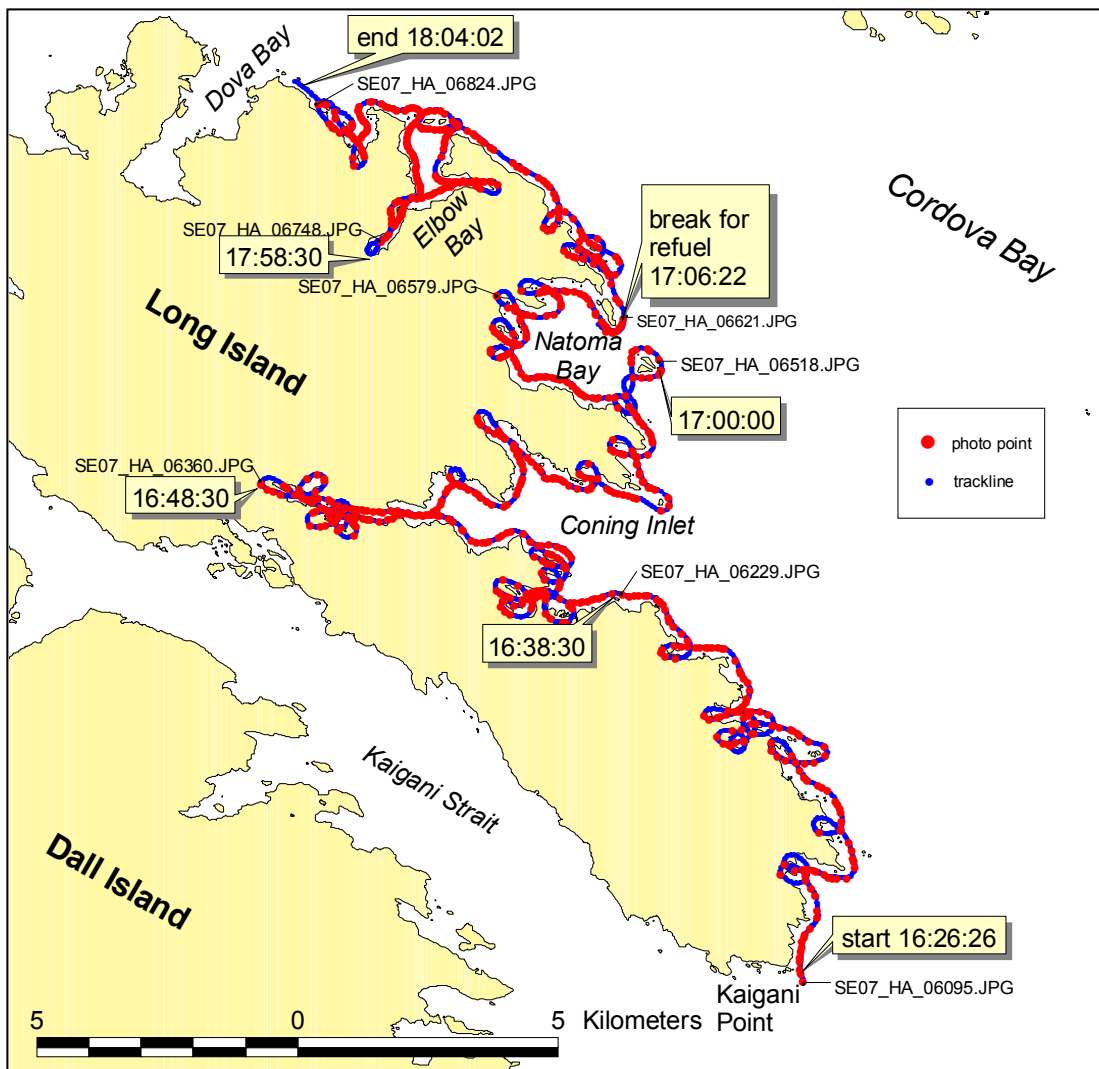
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Fog, low ceiling, gusting SE

Time (UTC)	Location	Photo
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

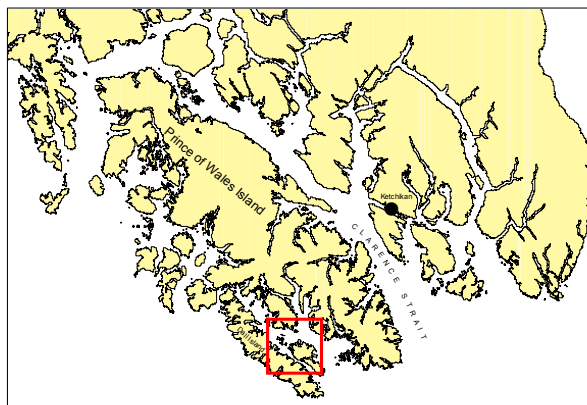
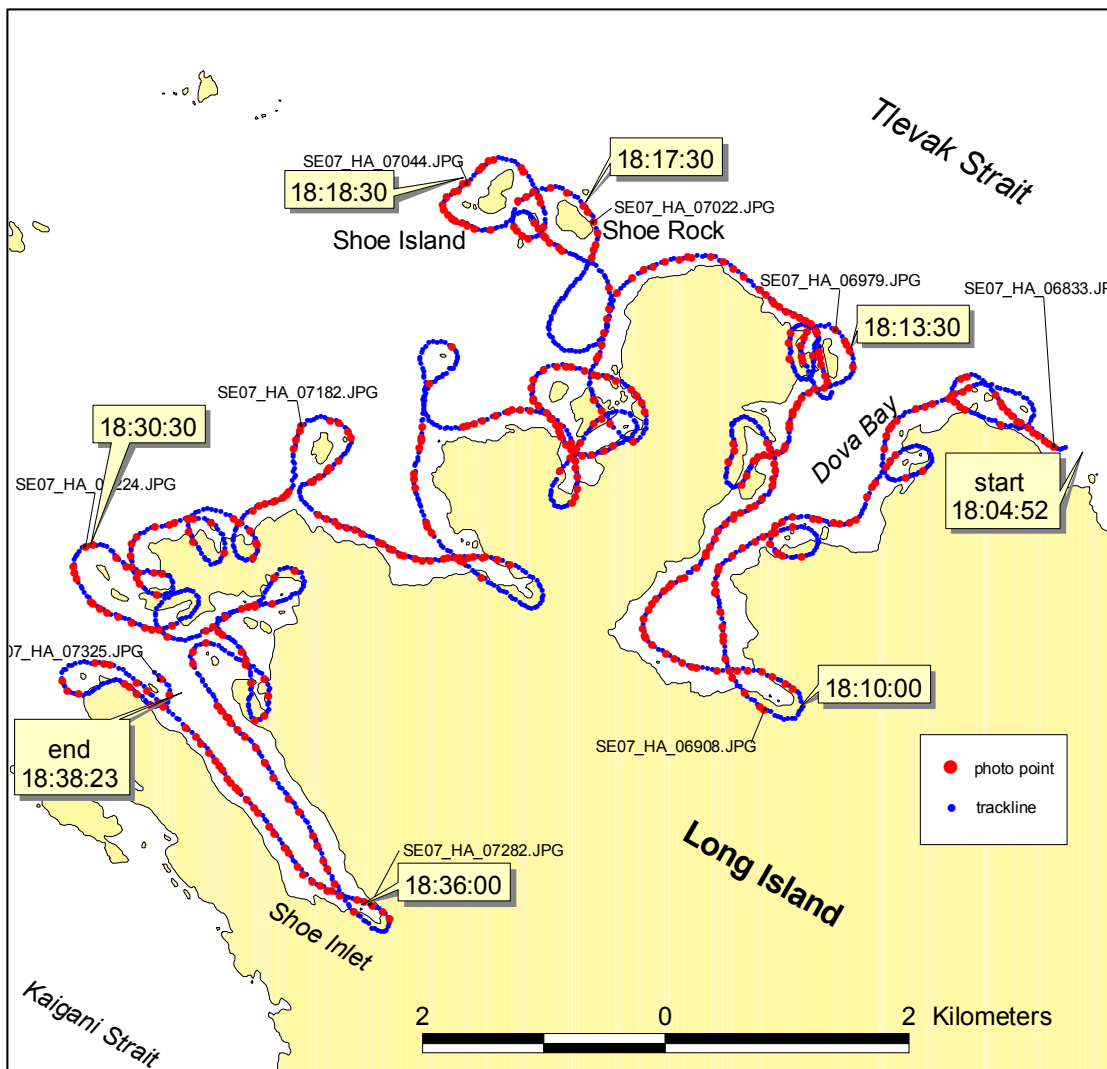
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Fog, very low ceiling

Time (UTC)	Location	Photo
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

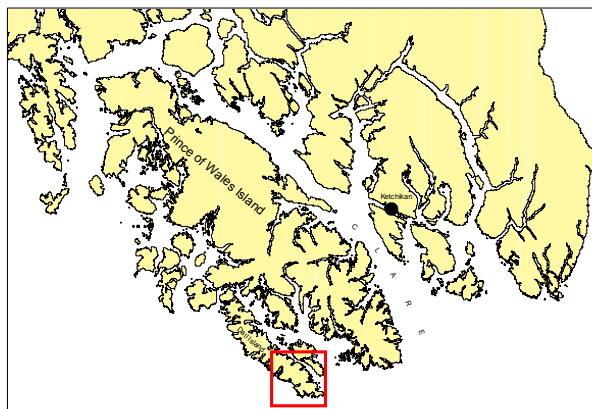
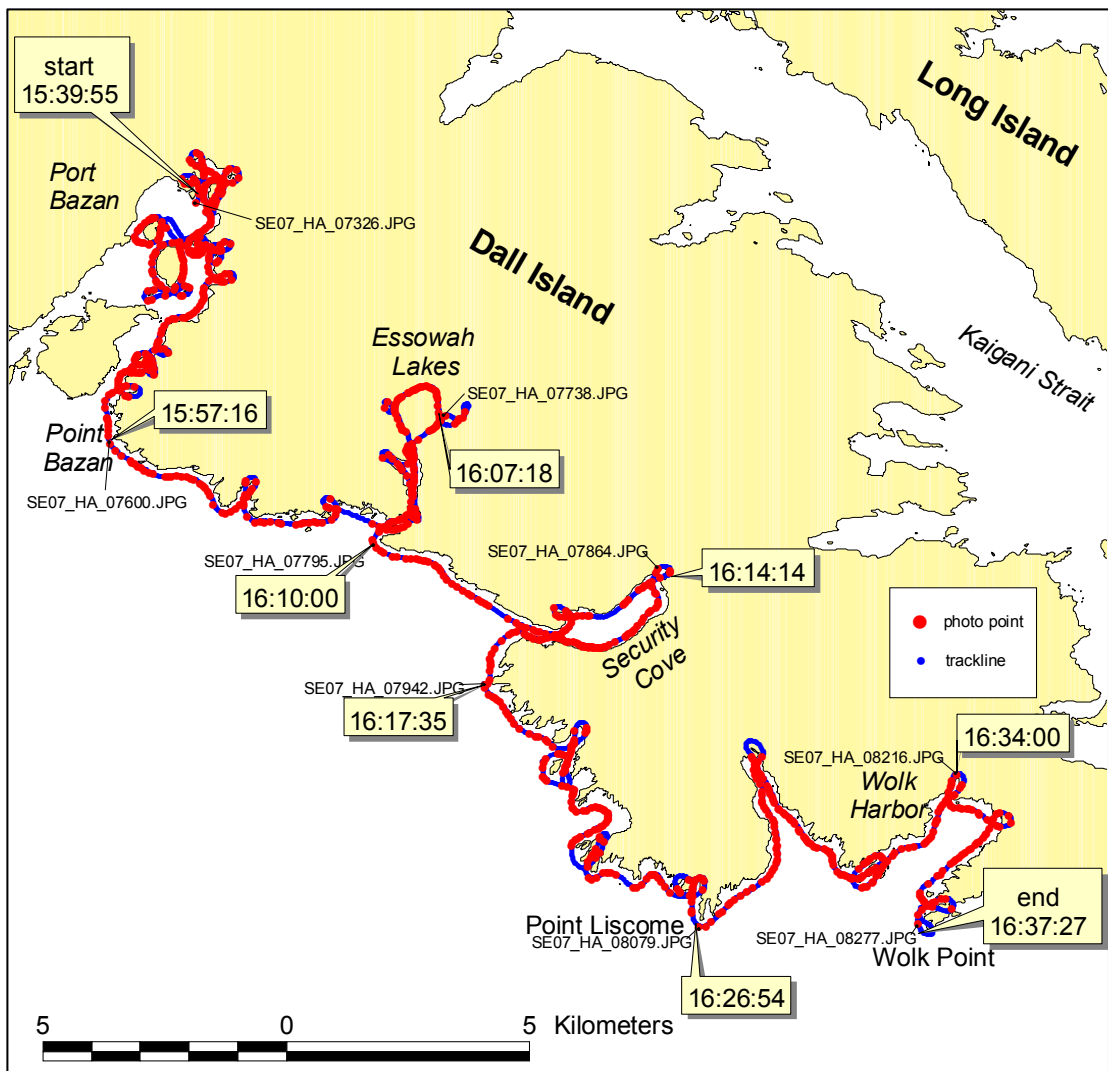
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Fog, very low ceiling

Time (UTC)	Location	Photo
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

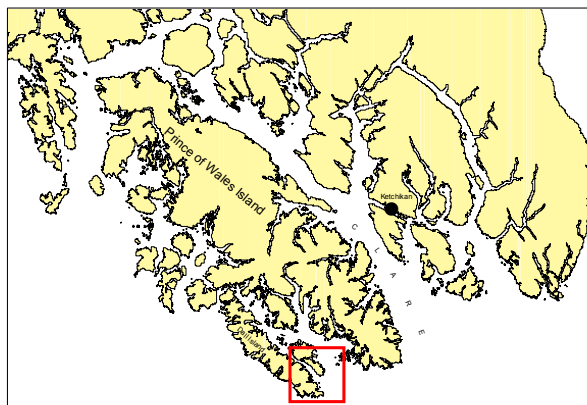
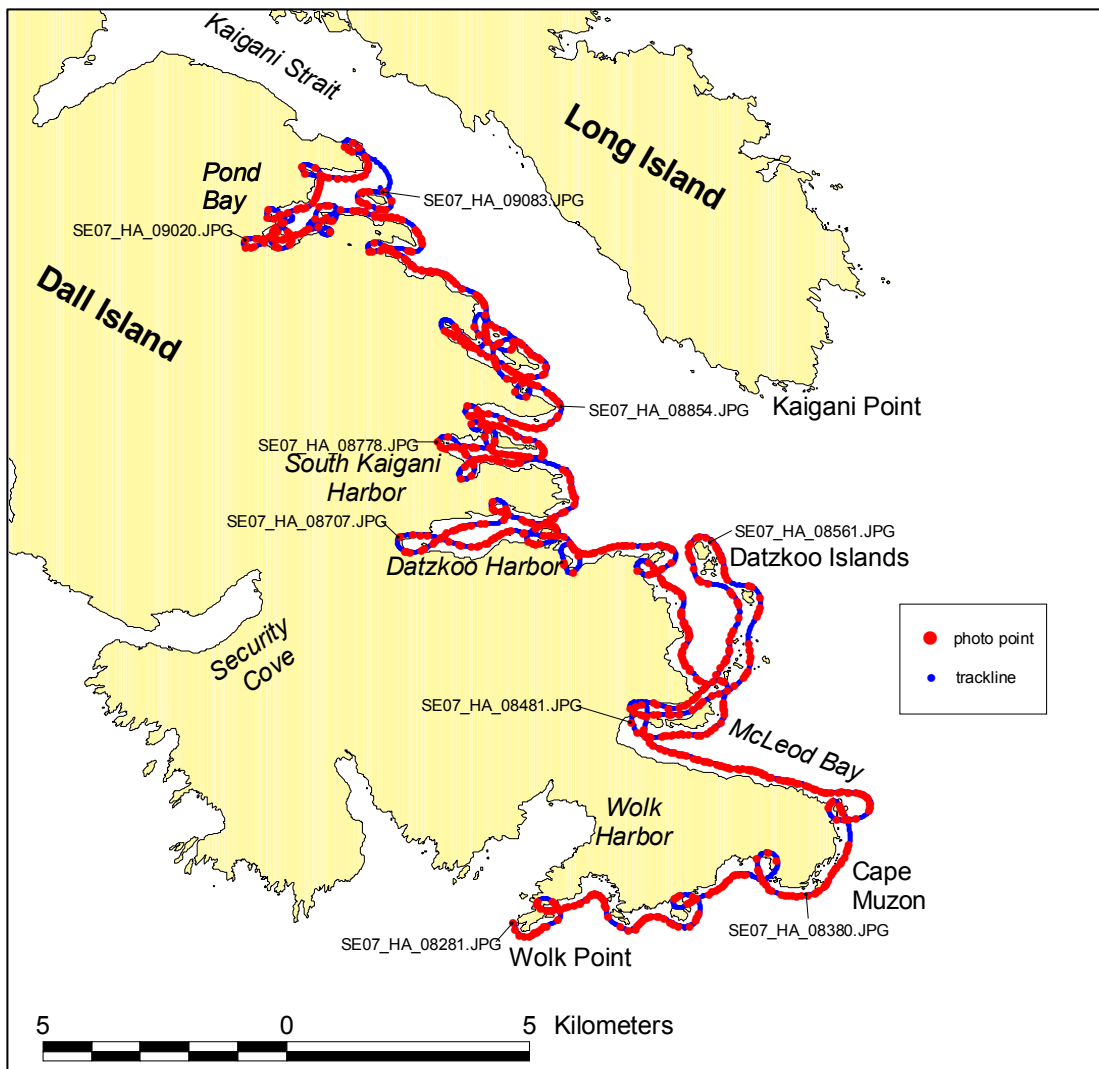
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Low Ceiling then clearing

Time (UTC)	Location	Photo
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

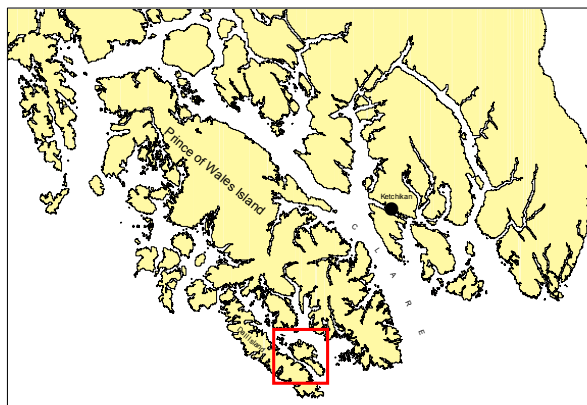
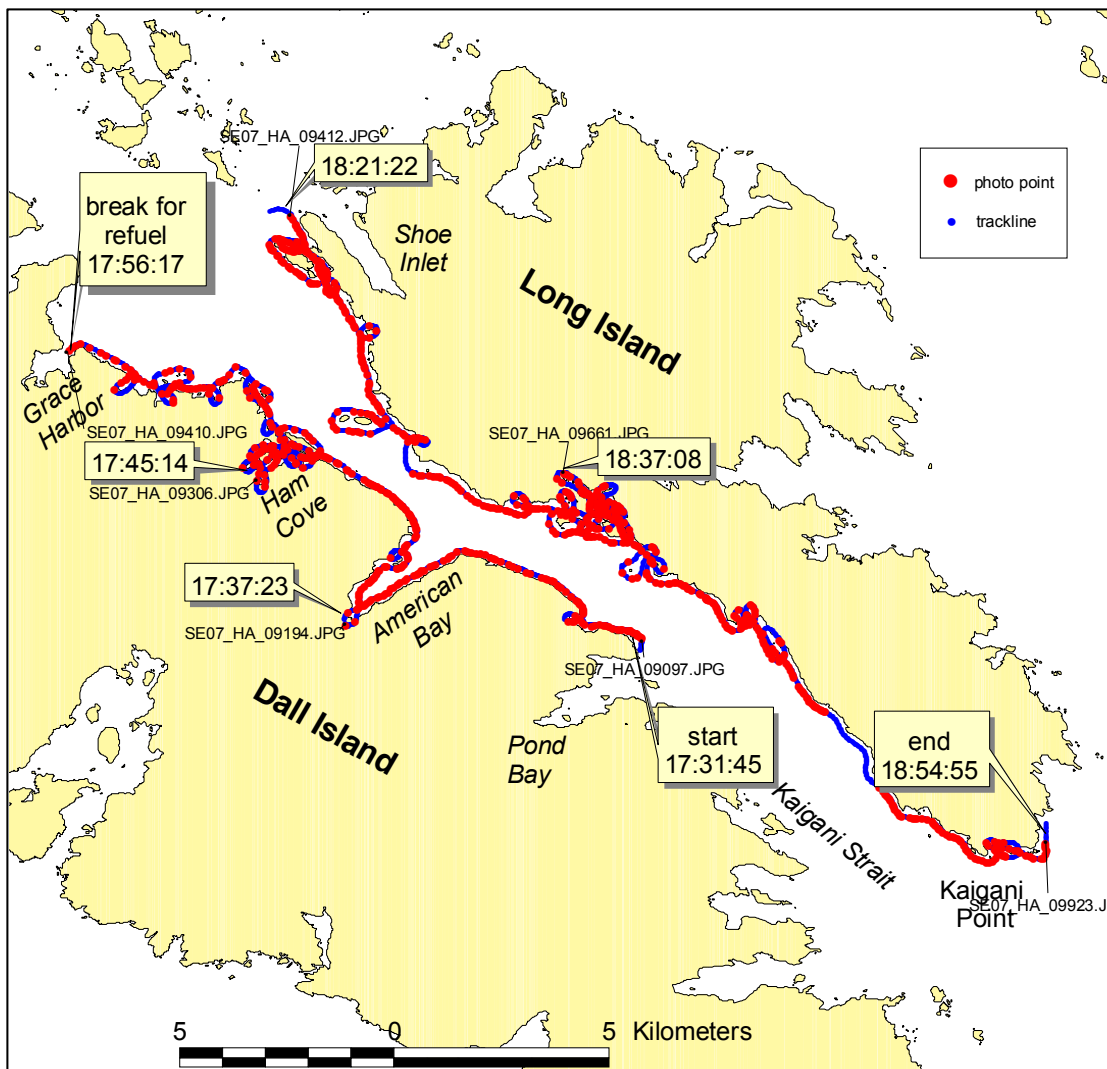
Geo: Borecky

Bio: Anderson

Nav: Ward

Weather: Clear skies, sunny

Time (UTC)	Location	Photo
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**

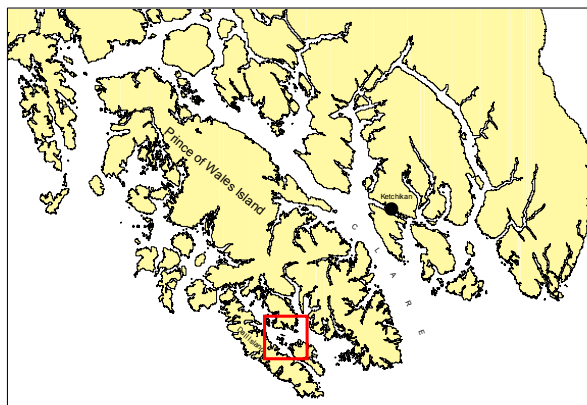
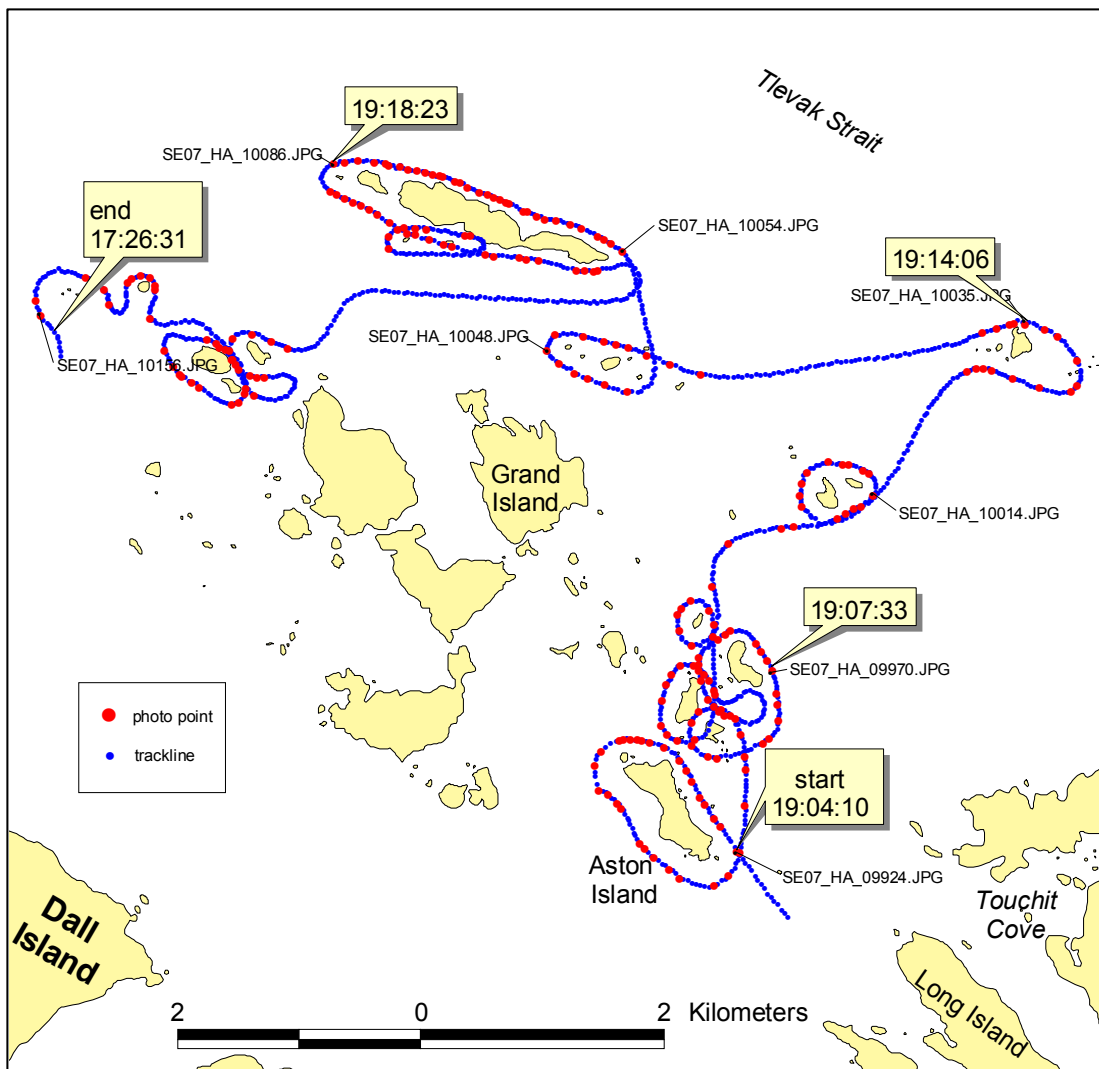
Tape Number: SE07_DL_15

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

Date: Island
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

Time (UTC)	Location	Photo
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

Time (UTC)	Location	Photo
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

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

	
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	

