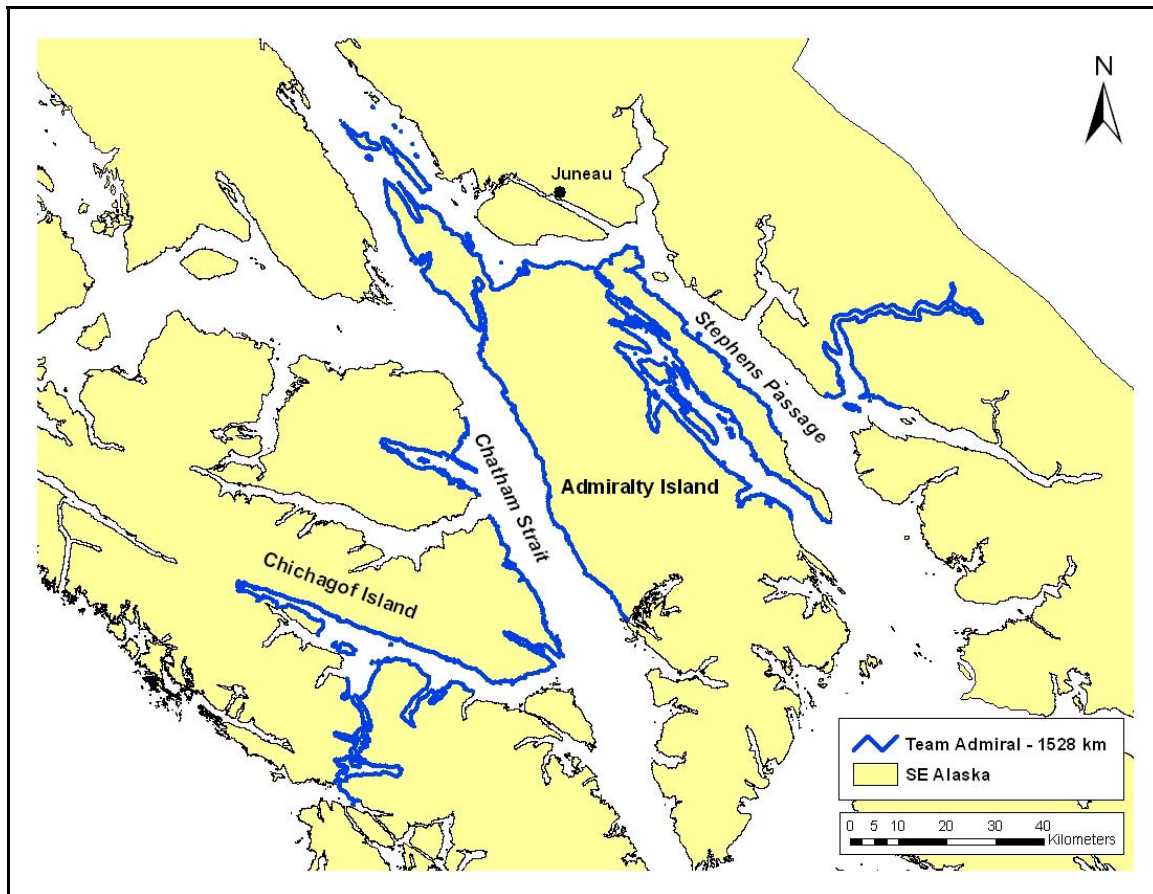


FLIGHT REPORT
ShoreZone Aerial Video Imaging (AVI) Survey
Southeast Alaska
July 30 - August 4, 2008
Team Admiral (AD)



Prepared for:
Alaska State Department of Fish and Game
The Nature Conservancy
NOAA National Marine Fisheries Service



By:

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SUMMARY

ShoreZone is a coastal habitat mapping and classification system in which georeferenced aerial imagery is collected specifically for the interpretation and integration of geomorphic 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. Details concerning mapping methodology and the definition of 2008 standards are available in the ShoreZone Coastal Habitat Mapping Protocol for the Gulf of Alaska (Harney et al. 2008). This and other ShoreZone reports are available for download from the Coastal & Ocean Resources website (www.coastalandoceans.com). For more information on the ShoreZone program and its partners, please visit this web site or CoastAlaska.net.

The purpose of this flight report is to summarize the field activities of the ShoreZone aerial video imaging (AVI) survey conducted out of **Juneau, Southeast Alaska** during the low-tide window of **July 30 – August 4, 2008**. The survey was conducted by Coastal & Ocean Resources Inc. (CORI, Sidney, British Columbia) under contract with the Alaska State Department of Fish and Game, the Nature Conservancy, and NOAA National Marine Fisheries Service. A coastal ecologist from the Auke Bay Laboratories in Juneau (NOAA) provided biological expertise. Table 1 provides a summary of crew affiliations and responsibilities.

The tables and figures on the following pages summarize the extent and location of the **1,528 km of shoreline** imagery and AVI data collected. A helicopter was chartered from Coastal Helicopters in Juneau, Alaska for this survey. Imagery was collected looking at the shoreline from the left side of the aircraft with the door removed. A total of 18 mini DV master tapes were collected during the survey and recorded to DVDs. This report contains a summary table for each tape, illustrating its location, length, and key geographic points. 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 also imprinted on the video imagery provided on DVD with this flight report.

Representative digital still photos from each day of the survey are provided in the last section of this report. All photos are supplied on DVD, organized by tape number for each team, consistent with the digital image library. More than 11,300 photos were collected during the survey. The shapefiles and GIS data that accompany this report on DVD illustrate the flight trackline positions at 1-second intervals (displayed by tape number), as well as the digitized shoreline segments flown. Data and imagery are linked by a date time code (yyyymmddhhmmss). When processing is complete, all imagery will be posted online at the NOAA ShoreZone web site (<http://www.alaskafisheries.noaa.gov/maps/szintro.htm>).

Table 1. Flight report contents

Section	Details	Pages
Tape logs and maps	Tapes: SE08_AD_01 to SE08_AD_18	4 – 42
Daily sample photos	July 30 – August 4, 2008	43 – 48
References, Acknowledgments, and Use Constraints		49 – 50

Table 2. ShoreZone AVI Flight Personnel and Responsibilities: Team Admiral (AD).

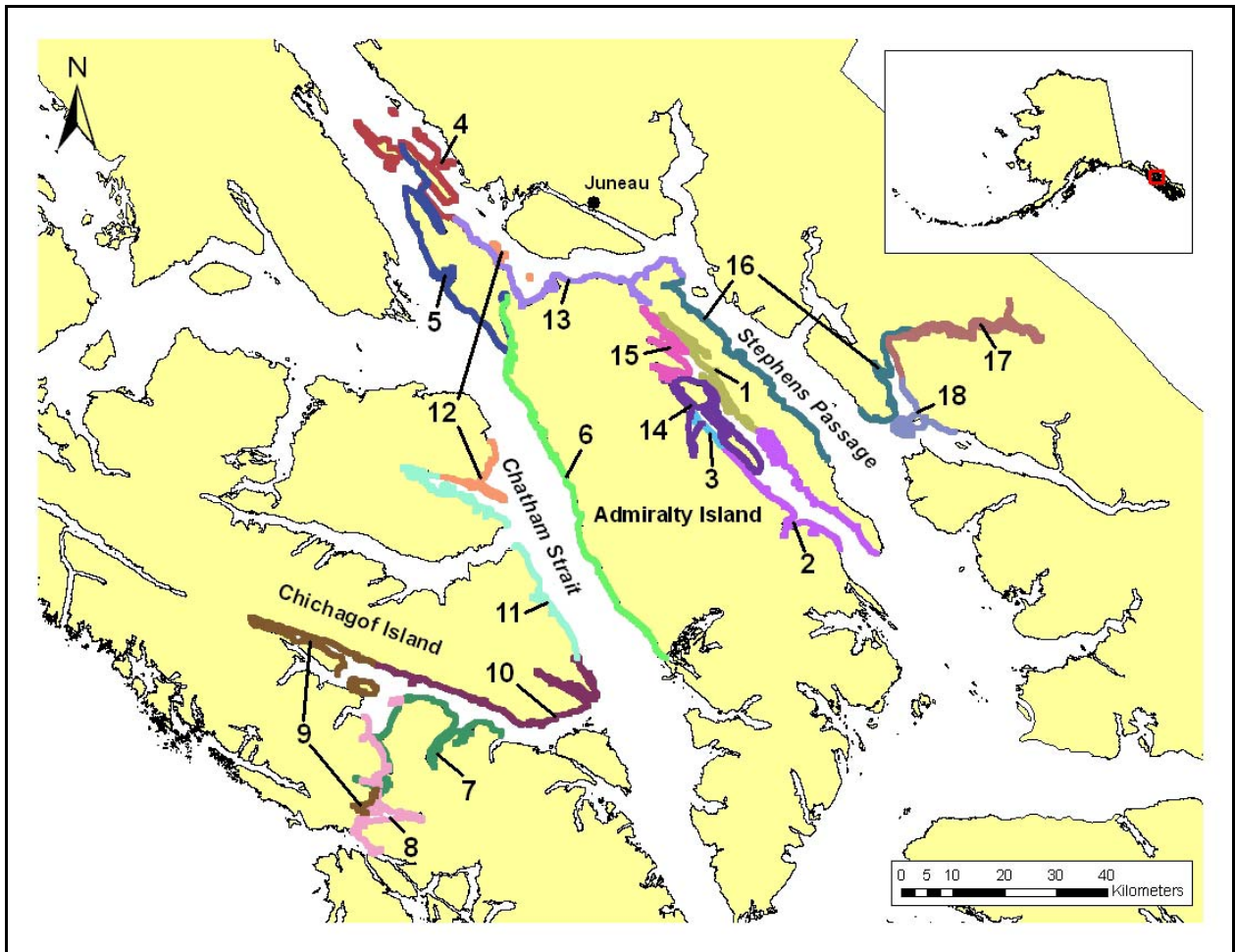
Crew Member	Individual / Affiliation	Responsibilities
<i>Geomorphologist</i>	Kalen Morrow CORI, Sidney, BC	survey coordination, videography, geomorphic commentary, post-flight data processing, project reporting
<i>Coastal Ecologist</i>	Mandy Lindeberg NOAA NMFS, Juneau, Alaska	digital photography, biologic commentary
<i>Navigators</i>	Eve Flager CORI, Sidney, BC	in-flight navigation, post-flight data processing
	Laura Baker TNC, Juneau, Alaska	in-flight navigation
<i>Pilot</i>	Bill Snider Coastal Helicopters Juneau, Alaska	

Table 3. Shoreline survey summary by tape for Team Admiral (AD).

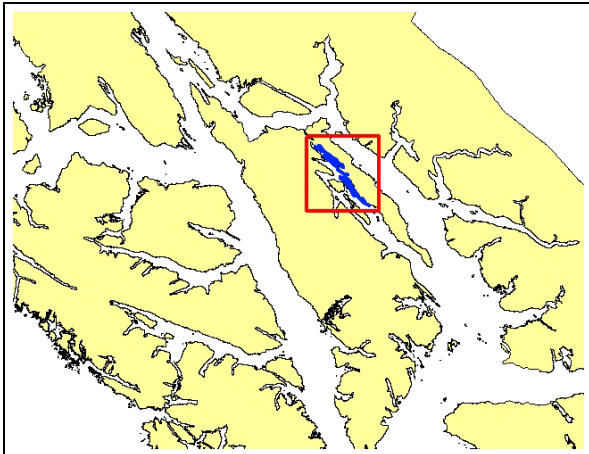
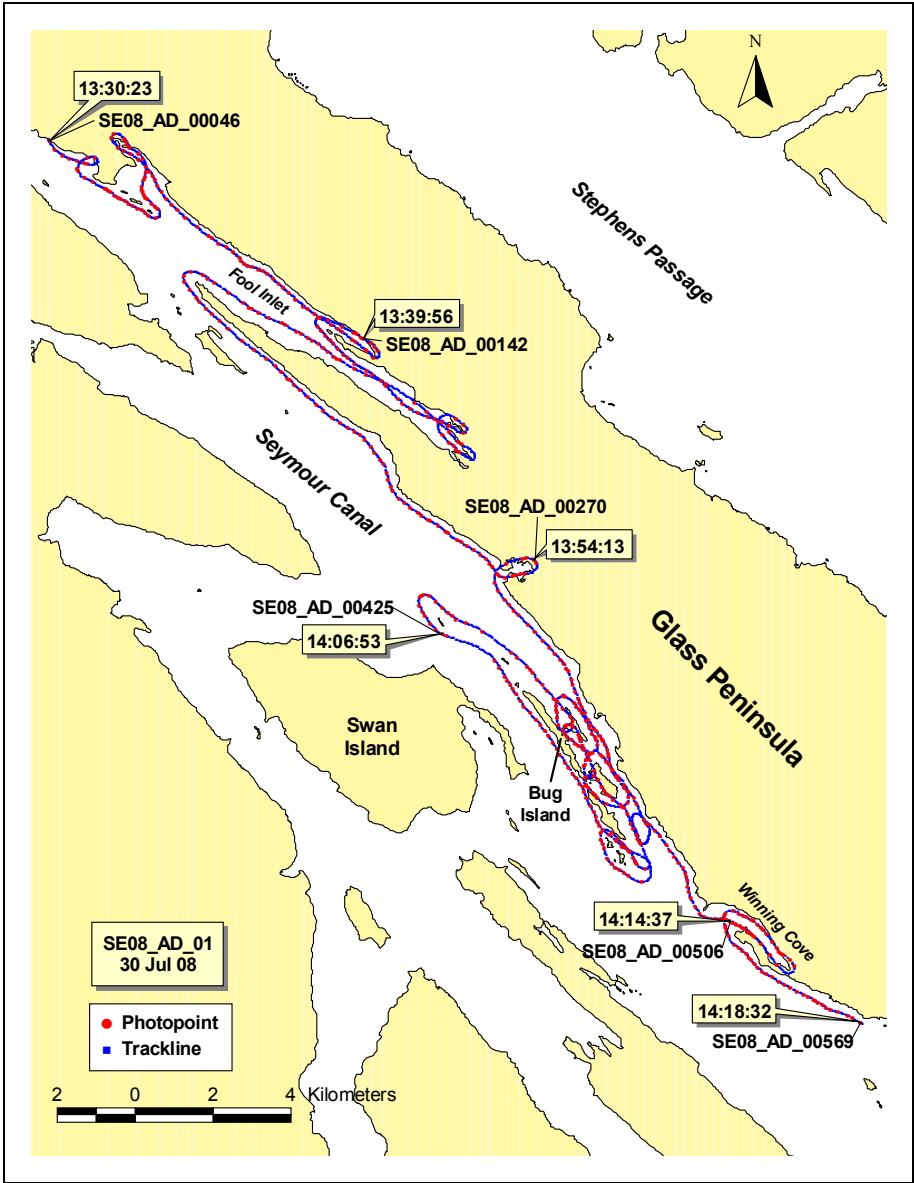
Team	Tape	Location
Admiral (AD)	SE08_AD_01	Fool Inlet, Seymour Canal, West Glass Peninsula
	SE08_AD_02	South Seymour Canal, West Glass Peninsula
	SE08_AD_03	Seymour Canal, Windfall Island
	SE08_AD_04	Mansfield Peninsula, Shelter Island, Lincoln Island
	SE08_AD_05	Mansfield Peninsula, Funter Bay, Hawk Inlet
	SE08_AD_06	West Admiralty Island, Chatham Strait
	SE08_AD_07	Peril Strait, Duffield Peninsula
	SE08_AD_08	Peril Strait, Fish Bay, Kakul Narrows
	SE08_AD_09	Peril Strait, North Arm, Hoonah Sound
	SE08_AD_10	Peril Strait, Sitkoh Bay, Chatham Strait
	SE08_AD_11	Chatham Strait, Freshwater Bay
	SE08_AD_12	Freshwater Bay, Chatham Strait, Horse and Colt Islands
	SE08_AD_13	Stephens Passage, Young Bay
	SE08_AD_14	Tiedeman Island, Swan Island, Seymour Canal
	SE08_AD_15	Swan Cove, King Salmon Bay, Head of Seymour Canal
	SE08_AD_16	Stephens Passage, East Glass Peninsula, Tracy Arm
	SE08_AD_17	Tracy Arm
	SE08_AD_18	Holkham Bay, Tracy Arm, Endicott Arm

**ShoreZone Aerial Video Imaging (AVI) Survey
Southeast Alaska
July 30 – August 4, 2008**

Team Admiral (AD)
Survey Maps and Tape Logs
DVDs: SE08_AD_01 to SE08_AD_18



Flight trackline map showing the location and extent of specific videotapes (DVDs) for the July 30 – August 4 **Team Admiral (AD)** survey in Southeast Alaska.



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

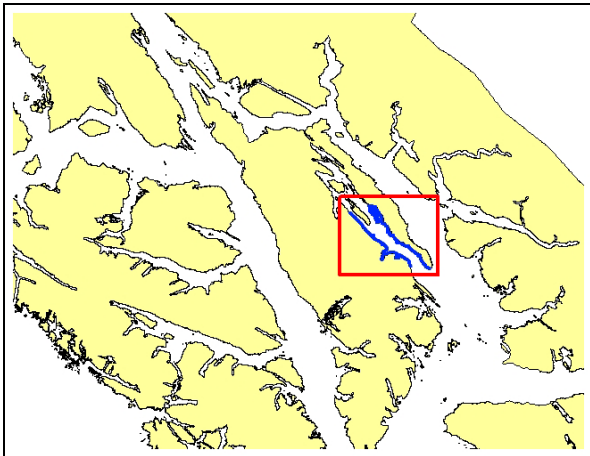
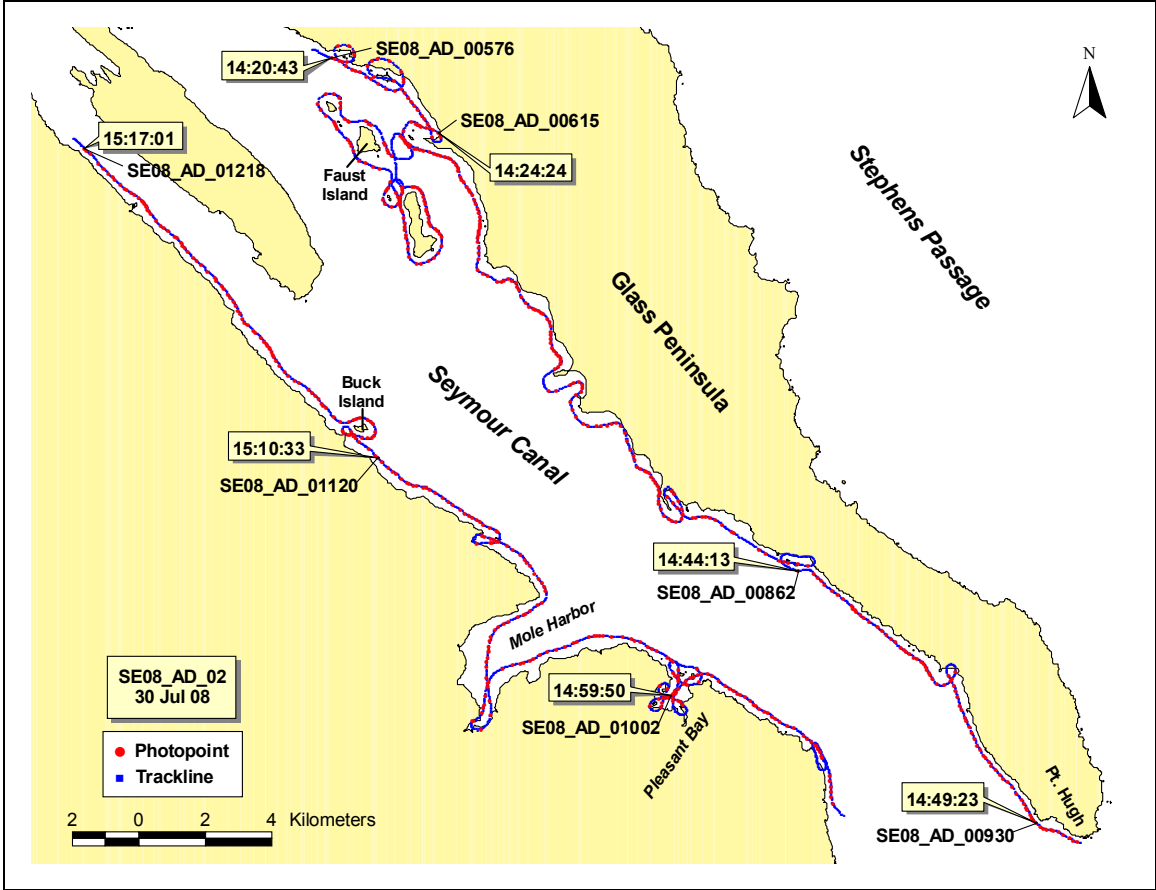
Tape: SE08_AD_01 **Date:** 30 Jul 08

General Location: Fool Inlet, Seymour Canal, West Glass Peninsula

Time Start (UTC): 13:30:21 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 14:18:34 **Nav:** Flager
Tape Length: 00:48:13

Weather: Overcast, low clouds

Time (UTC)	Location	Photo
13:30:23	Head of Seymour Canal	SE08_AD_00046
13:39:56	Fool Inlet, Seymour Canal	SE08_AD_00142
13:54:13	West Glass Peninsula, Seymour Canal	SE08_AD_00270
14:06:53	Seymour Canal north of Bug Island	SE08_AD_00425
14:14:37	Winning Cove	SE08_AD_00506
14:18:32	Seymour Canal north of Faust Island	SE08_AD_00569



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

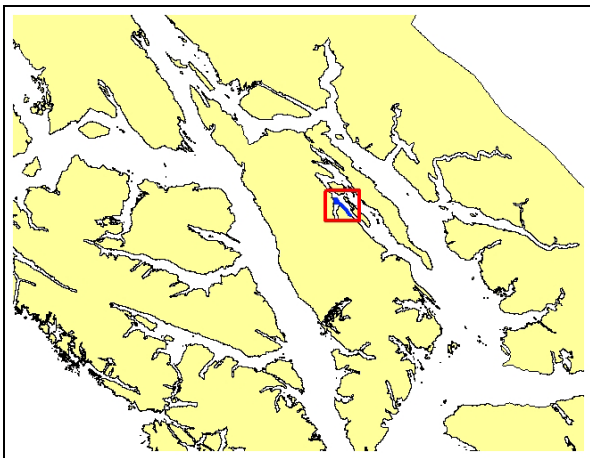
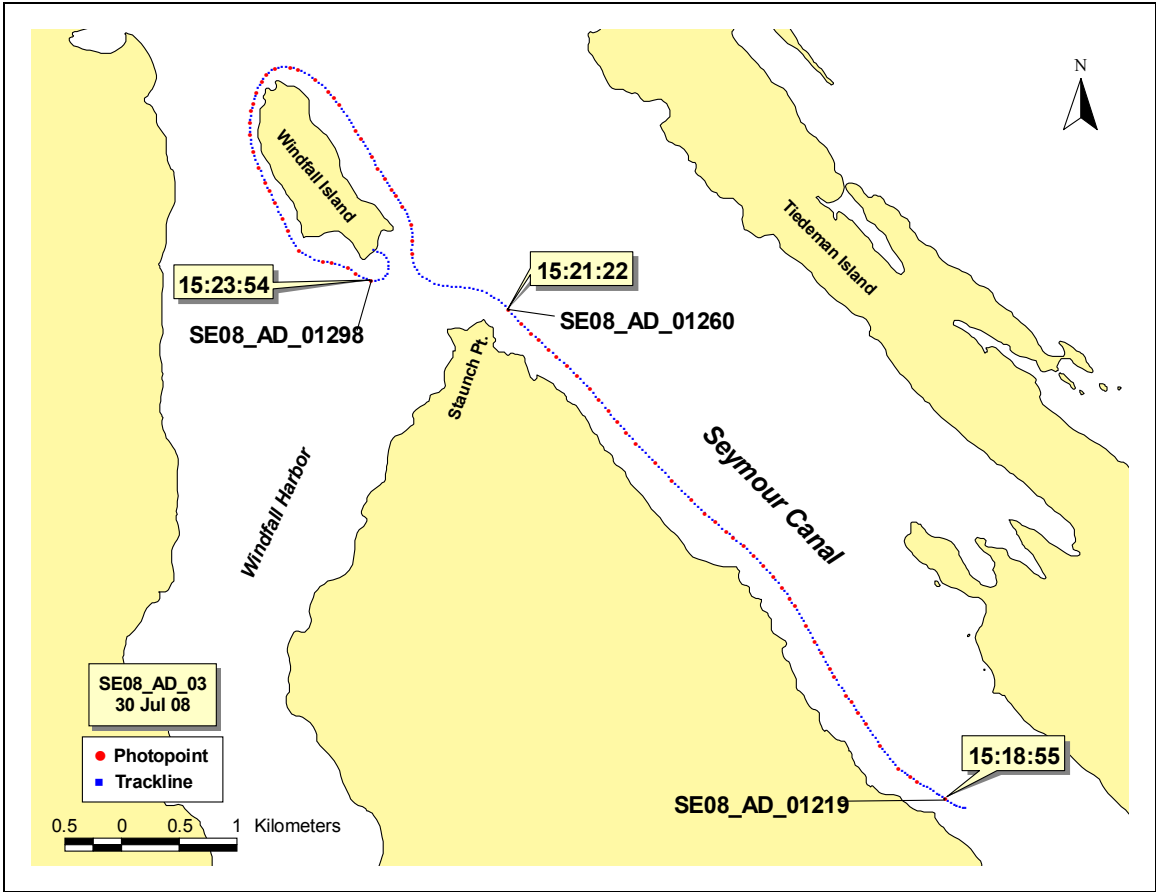
Tape: SE08_AD_02 **Date:** 30 Jul 08

General Location: South Seymour Canal, West Glass Peninsula

Time Start (UTC): 14:20:24 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 15:17:15 **Nav:** Flager
Tape Length: 00:53:27

Weather: Overcast, low clouds

Time (UTC)	Location	Photo
14:20:43	East Seymour Canal, north of Faust Island	SE08_AD_00576
14:24:24	East Seymour Canal, near Faust Island	SE08_AD_00615
14:44:13	West Glass Peninsula, south Seymour Canal	SE08_AD_00862
14:49:23	West Glass Peninsula, north of Pt. Hugh	SE08_AD_00930
	Tape Break: 14:50:02 to 14:53:24 (transit)	
14:59:50	Pleasant Bay	SE08_AD_01002
15:10:33	West Seymour Canal, near Buck Island	SE08_AD_01120
15:17:01	West Seymour Canal, south of Staunch Pt.	SE08_AD_01218



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

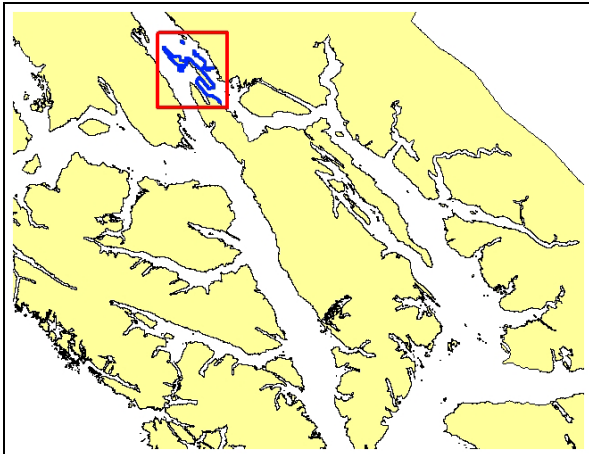
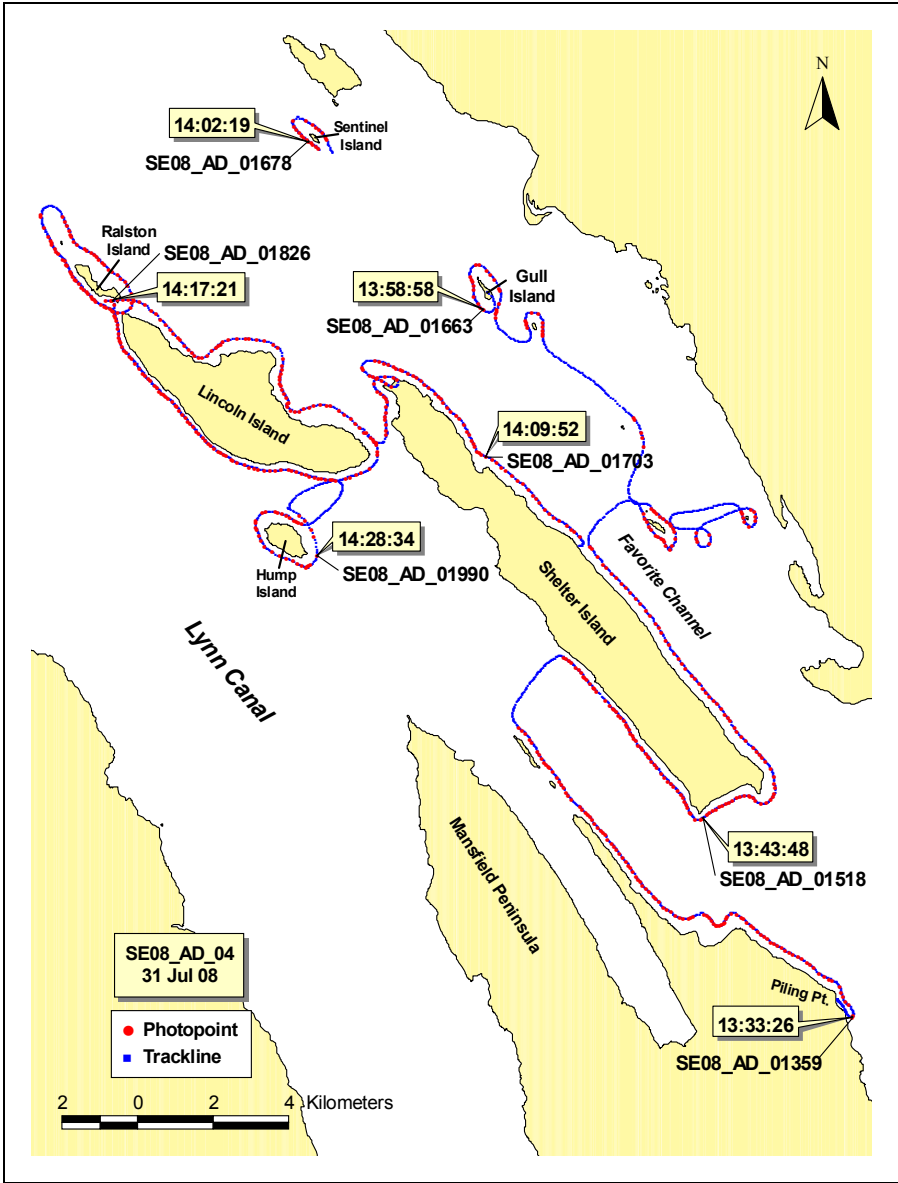
Tape: SE08_AD_03 **Date:** 30 Jul 08

General Location: Seymour Canal, Windfall Island

Time Start (UTC): 15:18:48 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 15:24:07 **Nav:** Flager
Tape Length: 00:05:19

Weather: Overcast, low clouds

Time (UTC)	Location	Photo
15:18:55	West Seymour Canal, south of Staunch Pt.	SE08_AD_01219
15:21:22	Staunch Pt.	SE08_AD_01260
15:23:54	South Windfall Island	SE08_AD_01298



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

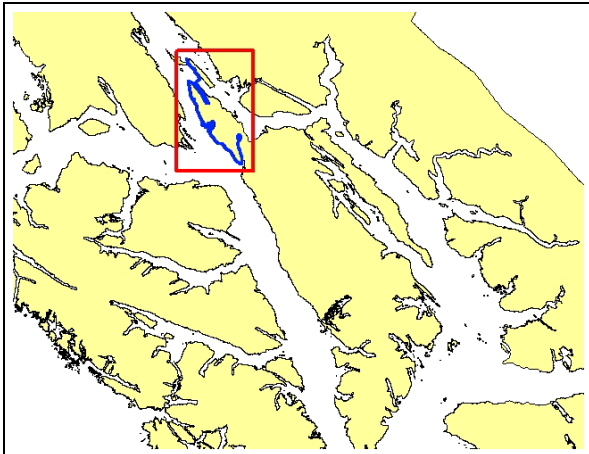
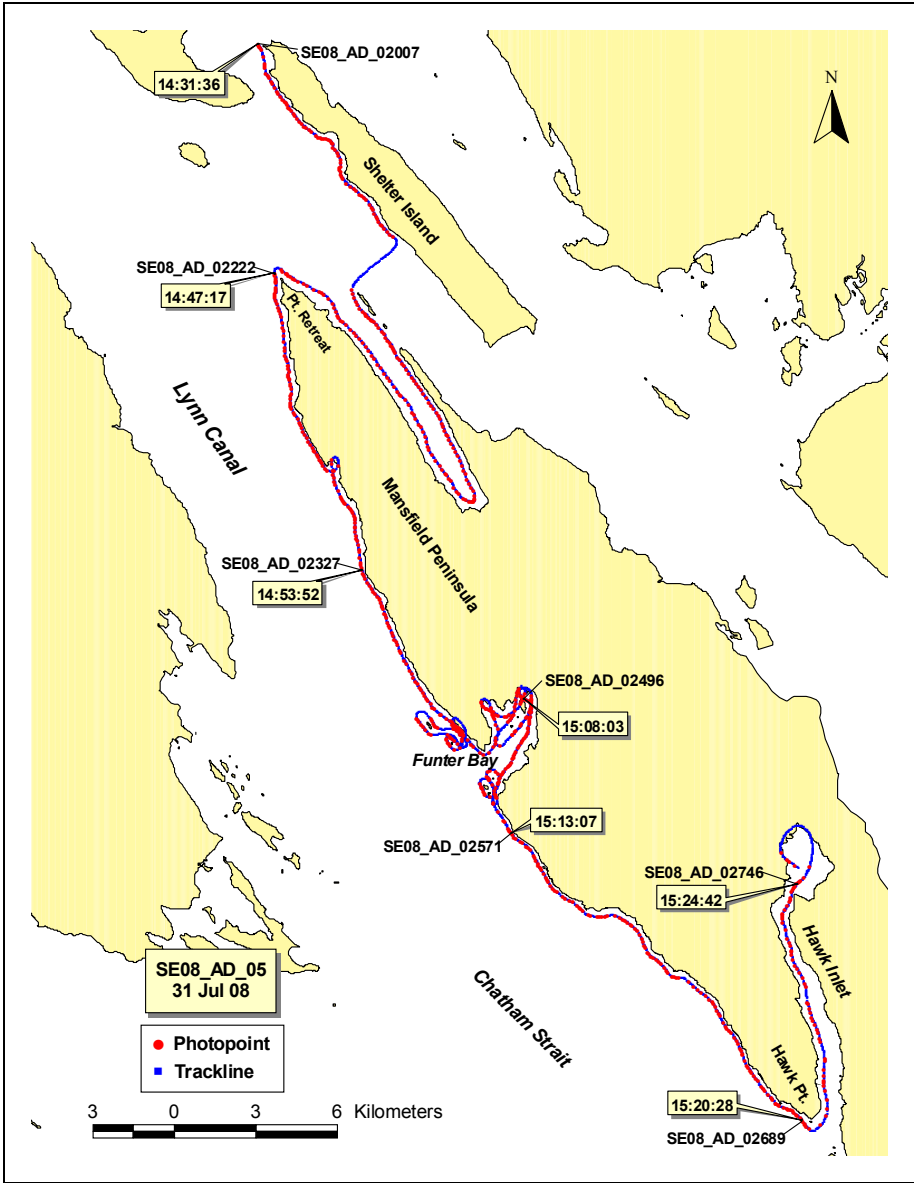
Tape: SE08_AD_04 **Date:** 31 Jul 08

General Location: Mansfield Peninsula, Shelter Island, Lincoln Island

Time Start (UTC): 13:33:25 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 14:30:36 **Nav:** Baker
Tape Length: 00:49:33

Weather: Overcast

Time (UTC)	Location	Photo
13:33:26	Piling Pt., Mansfield Peninsula	SE08_AD_01359
13:43:48	South Shelter Island	SE08_AD_01518
13:58:58	Gull Island, Favorite Channel	SE08_AD_01663
	Tape Break: 13:59:21 to 14:01:12 (transit)	
14:02:19	Sentinel Island, Favorite Channel	SE08_AD_01678
	Tape Break: 14:02:33 to 14:08:16 (transit)	
14:09:52	Halibut Cove, Shelter Island	SE08_AD_01703
14:17:21	Ralston Island	SE08_AD_01826
14:28:34	South Hump Island	SE08_AD_01990



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

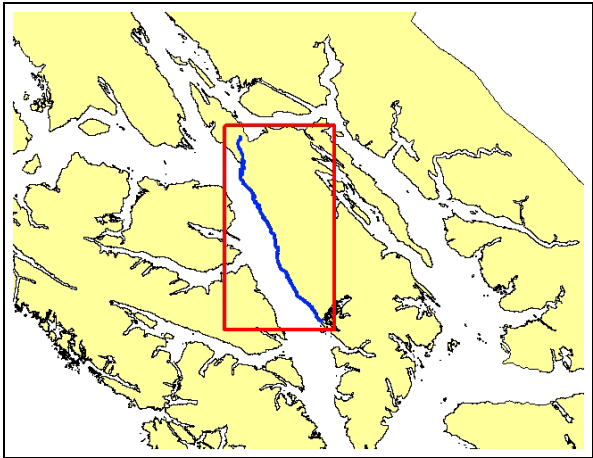
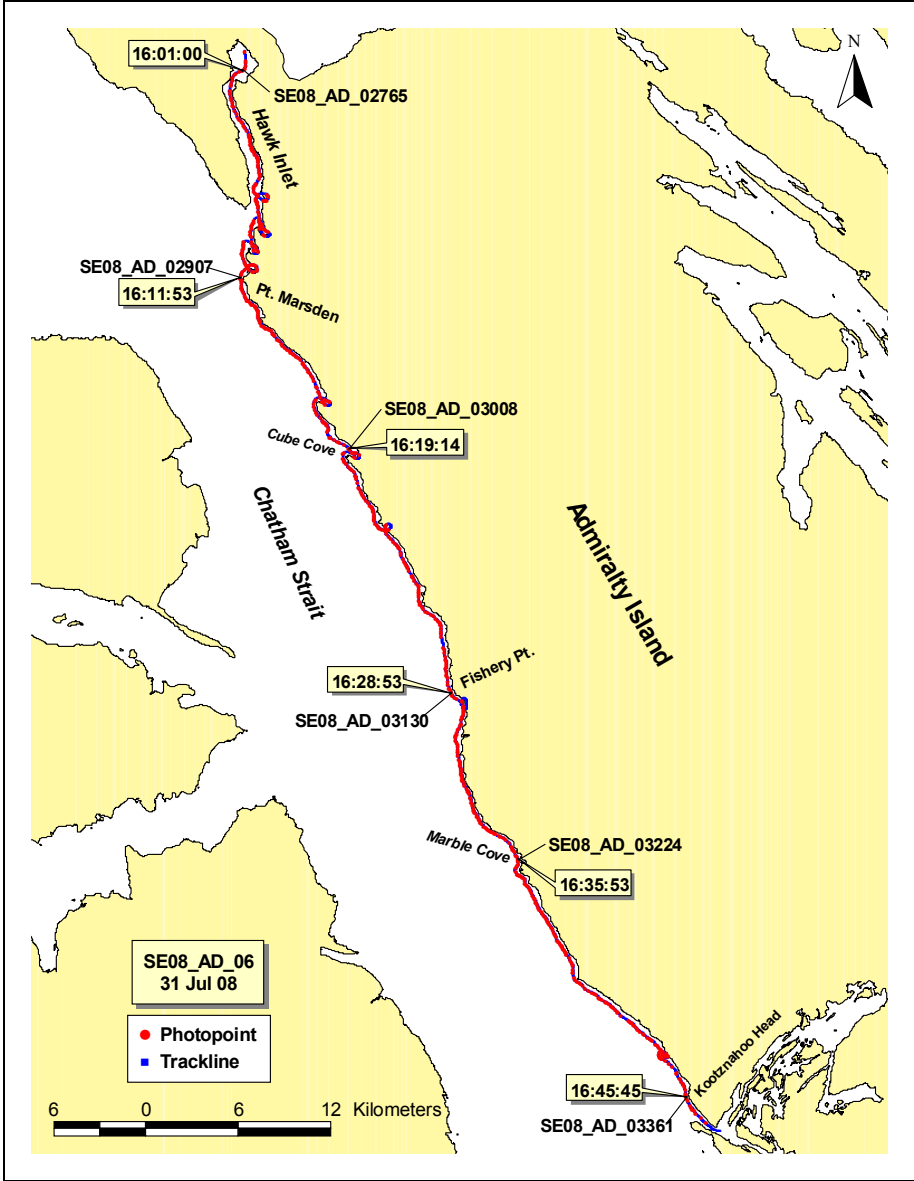
Tape: SE08_AD_05 **Date:** 31 Jul 08

General Location: Mansfield Peninsula, Funter Bay, Hawk Inlet

Time Start (UTC): 14:31:36 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 15:26:34 **Nav:** Baker
Tape Length: 00:54:58

Weather: Overcast

Time (UTC)	Location	Photo
14:31:36	North Shelter Island, North Pass	SE08_AD_02007
14:47:17	Pt. Retreat, Mansfield Peninsula	SE08_AD_02222
14:53:52	West Mansfield Peninsula, Lynn Canal	SE08_AD_02327
15:08:03	Funter Bay	SE08_AD_02496
15:13:07	West Mansfield Peninsula, Chatham Strait	SE08_AD_02571
15:20:28	Hawk Pt.	SE08_AD_02689
15:24:42	Head of Hawk Inlet	SE08_AD_02746



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

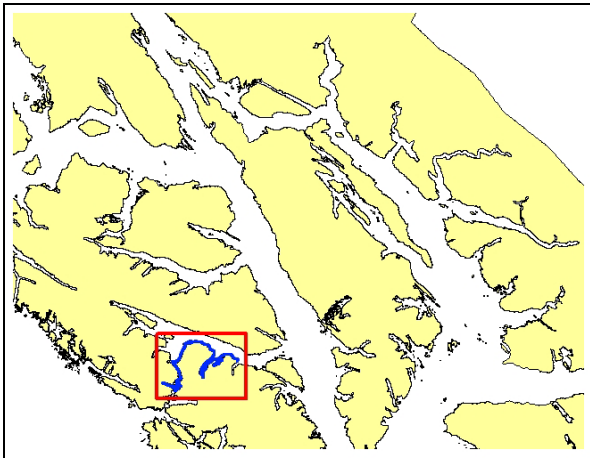
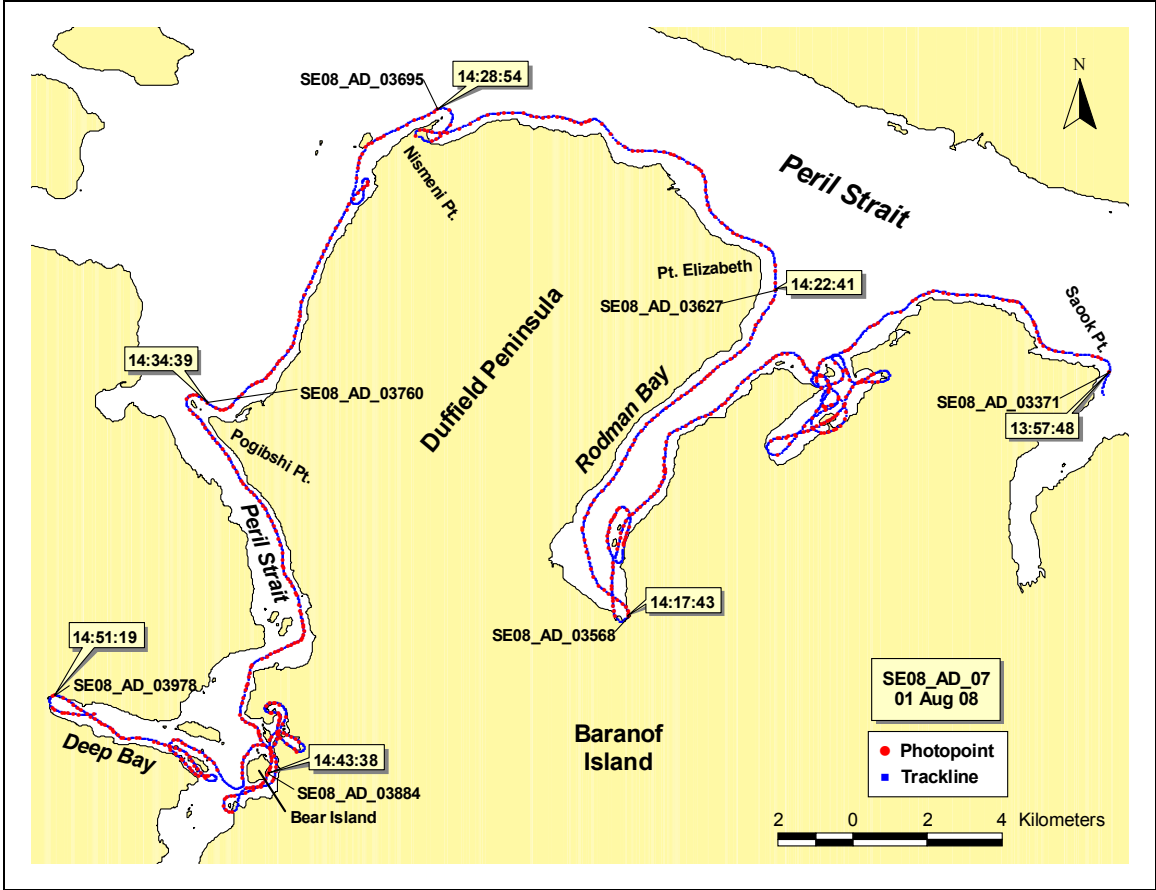
Tape: SE08_AD_06 **Date:** 31 Jul 08

General Location: West Admiralty Island, Chatham Strait

Time Start (UTC): 16:00:22 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 16:47:10 **Nav:** Baker
Tape Length: 00:46:48

Weather: Overcast

Time (UTC)	Location	Photo
16:01:00	Head of Hawk Inlet	SE08_AD_02765
16:11:53	Pt. Marsden, Chatham Strait	SE08_AD_02907
16:19:14	Cube Cove, Chatham Strait	SE08_AD_03008
16:28:53	Fishery Pt. , Chatham Strait	SE08_AD_03130
16:35:53	Marble Cove, Chatham Strait	SE08_AD_03224
16:45:45	Kootznahoo Head, Chatham Strait	SE08_AD_03361



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

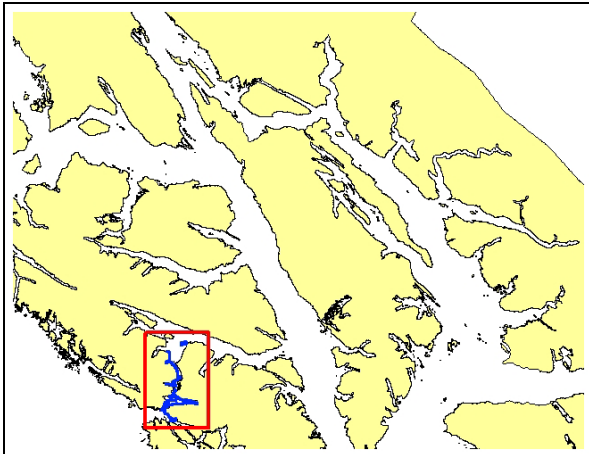
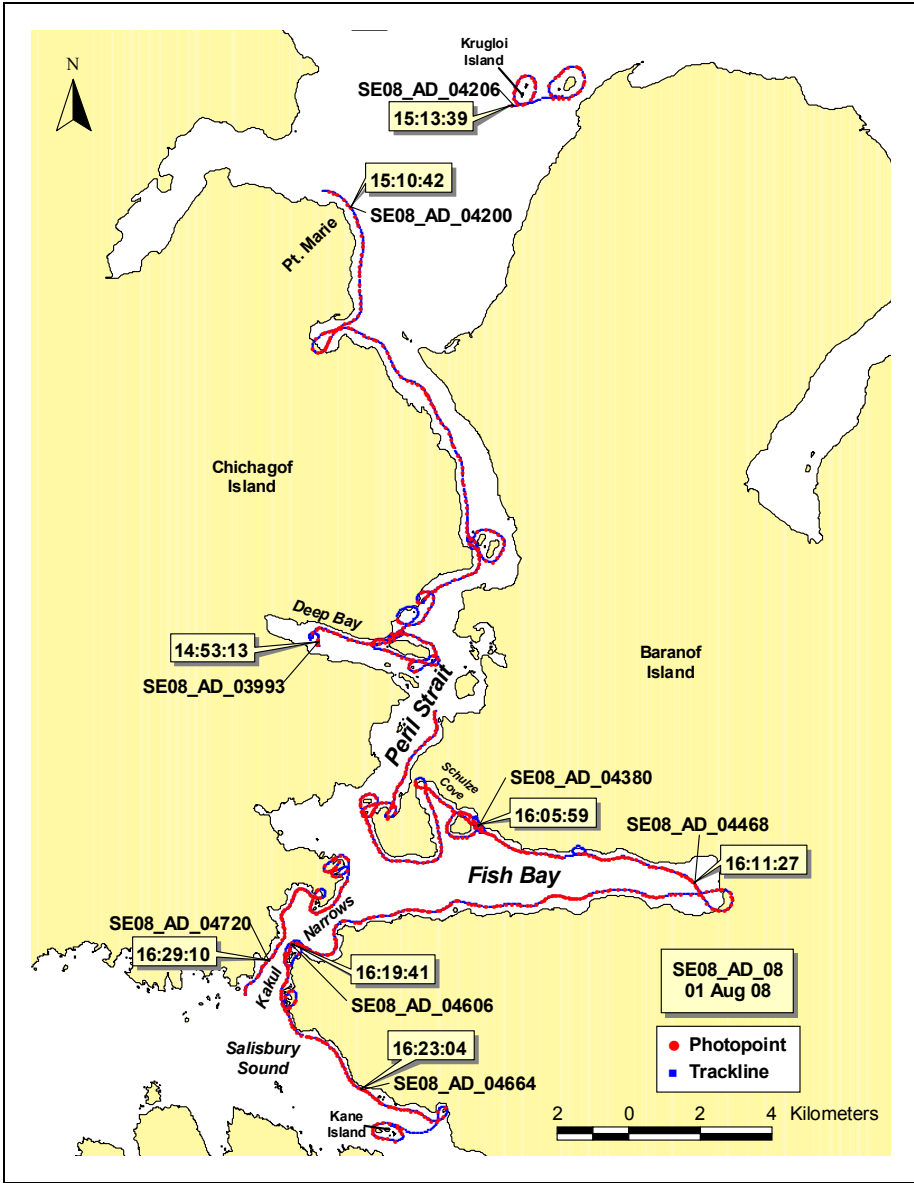
Tape: SE08_AD_07 **Date:** 01 Aug 08

General Location: Peril Strait, Duffield Peninsula

Time Start (UTC): 13:57:32 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 14:52:04 **Nav:** Flager
Tape Length: 00:54:32

Weather: Overcast

Time (UTC)	Location	Photo
13:57:48	Saaok Pt.	SE08_AD_03371
14:17:43	Head of Rodman Bay	SE08_AD_03568
14:22:41	Pt. Elizabeth	SE08_AD_03627
14:28:54	Nismeni Pt.	SE08_AD_03695
14:34:39	Pogibshi Pt.	SE08_AD_03760
14:43:38	Bear Island	SE08_AD_03884
14:51:19	Deep Bay	SE08_AD_03978



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

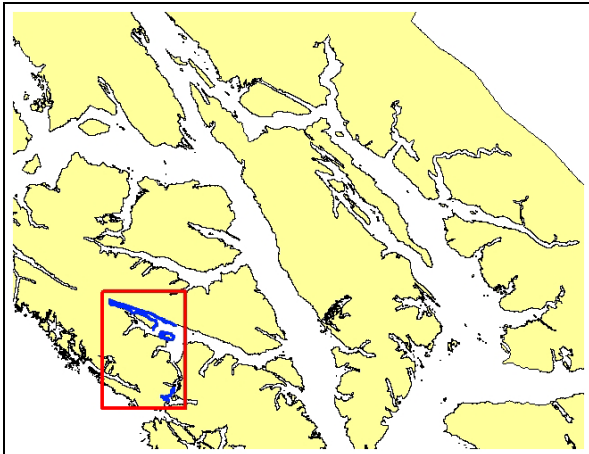
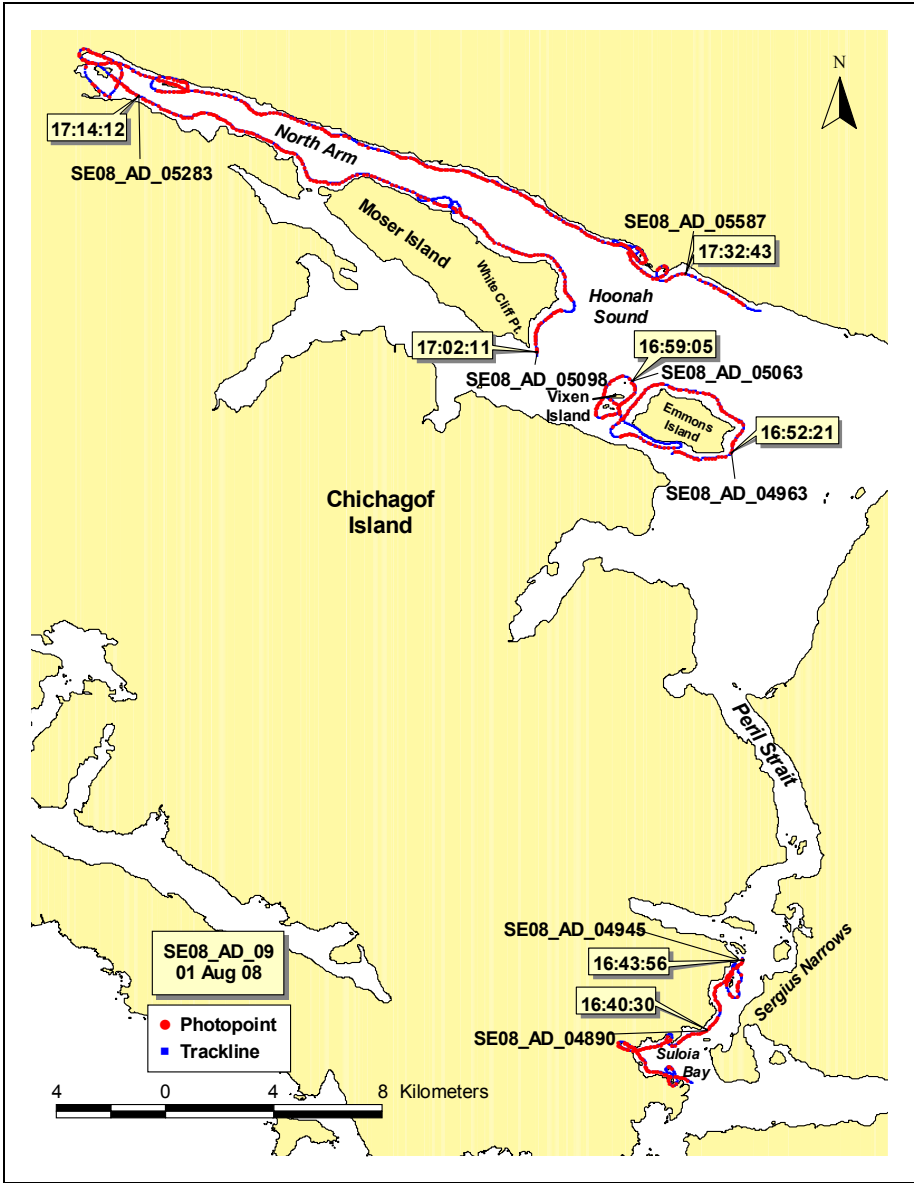
Tape: SE08_AD_08 **Date:** 01 Aug 08

General Location: Peril Strait, Fish Bay, Kakul Narrows

Time Start (UTC): 14:53:02 **Geo:** Morrow
Fuel Break: 15:16:35 to 15:58:43 **Bio:** Lindeberg
Time End (UTC): 16:34:02 **Nav:** Flager
Tape Length: 00:54:18

Weather: Overcast

Time (UTC)	Location	Photo
14:53:13	Deep Bay	SE08_AD_03993
15:10:42	Pt. Marie	SE08_AD_04200
	Tape Break: 15:11:09 to 15:13:35 (transit)	
15:13:39	Krugloi Island	SE08_AD_04206
	Fuel Break: 15:16:35 to 15:58:43	
16:05:59	Schulze Cove	SE08_AD_04380
16:11:27	Head of Fish Bay	SE08_AD_04468
16:19:41	East side of Kakul Narrows, Peril Strait	SE08_AD_04606
16:23:04	Near Kane Island, Salisbury Sound	SE08_AD_04664
	Tape Break: 16:26:27 to 16:28:29 (transit)	
16:29:10	West side of Kakul Narrows, Peril Strait	SE08_AD_04720



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

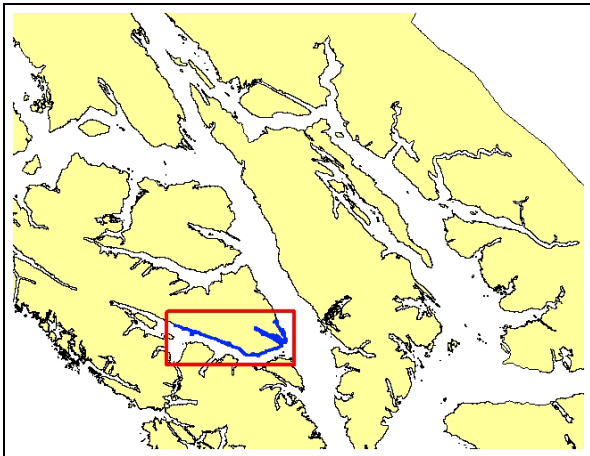
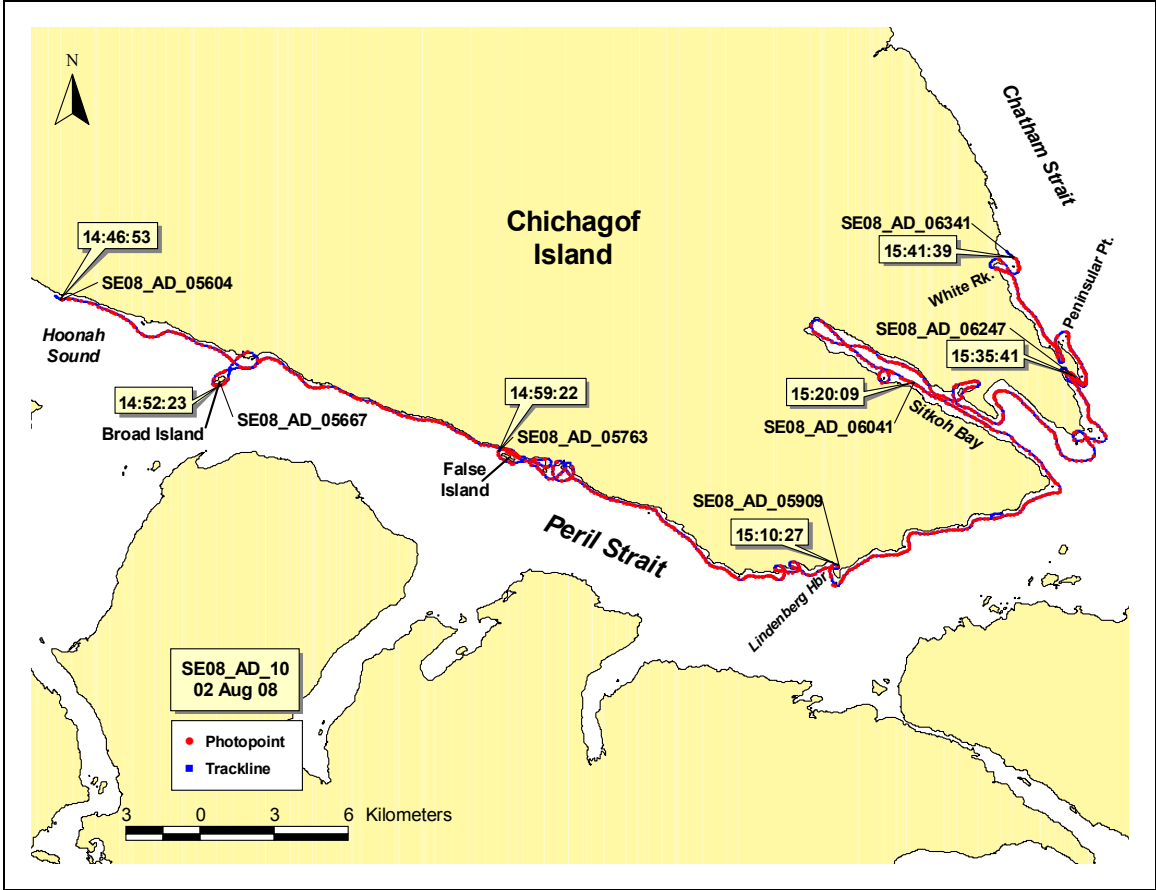
Tape: SE08_AD_09 **Date:** 01 Aug 08

General Location: Peril Strait, North Arm, Hoonah Sound

Time Start (UTC): 16:35:00 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 17:34:06 **Nav:** Flager
Tape Length: 00:50:34

Weather: Overcast

Time (UTC)	Location	Photo
16:40:30	North end Suloia, Peril Strait	SE08_AD_04890
16:43:56	Sergius Narrows, Peril Strait	SE08_AD_04945
	Tape Break: 16:44:01 to 16:51:17 (transit)	
16:52:21	SE corner of Emmons Island	SE08_AD_04963
16:59:05	Vixen Island	SE08_AD_05063
	Tape Break: 17:00:55 to 17:02:07 (transit)	
17:02:11	White Cliff Pt., Moser Island	SE08_AD_05098
17:14:12	Head of North Arm	SE08_AD_05283
17:32:43	North Hoonah Sound, Chichagof Island	SE08_AD_05587



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

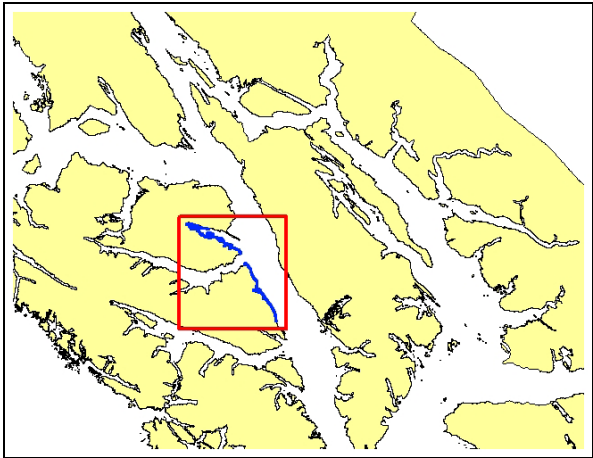
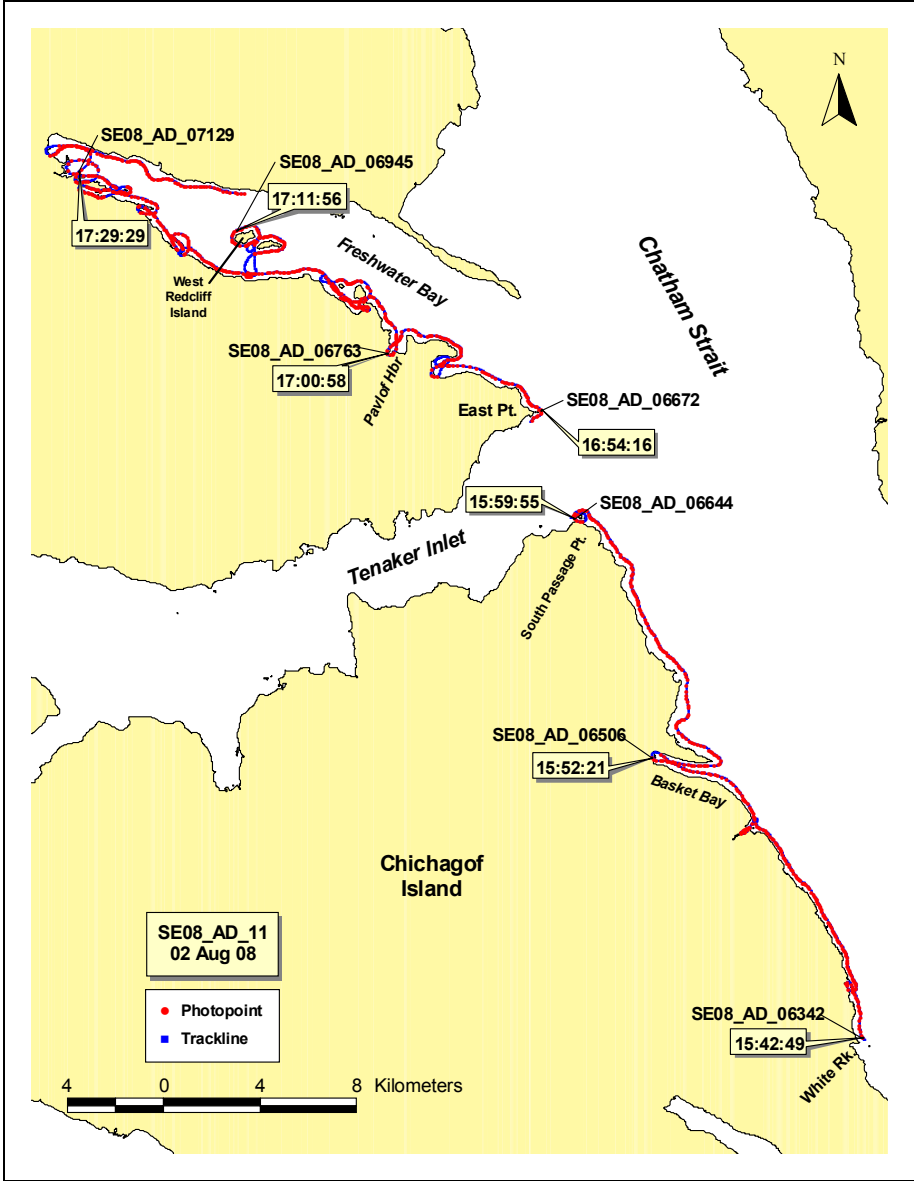
Tape: SE08_AD_10 **Date:** 02 Aug 08

General Location: Peril Strait, Sitkoh Bay, Chatham Strait

Time Start (UTC): 14:46:40 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 15:41:50 **Nav:** Baker
Tape Length: 00:55:10

Weather: Overcast

Time (UTC)	Location	Photo
14:46:53	North Hoonah Sound, Chichagof Island	SE08_AD_05604
14:52:23	Broad Island, Peril Strait	SE08_AD_05667
14:59:22	False Island, Peril Strait	SE08_AD_05763
15:10:27	Lindenberg Harbor, Peril Strait	SE08_AD_05909
15:20:09	Sitkoh Bay	SE08_AD_06041
15:35:41	Peninsular Pt., Chatham Strait	SE08_AD_06247
15:41:39	White Rock, Chatham Strait	SE08_AD_06341



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

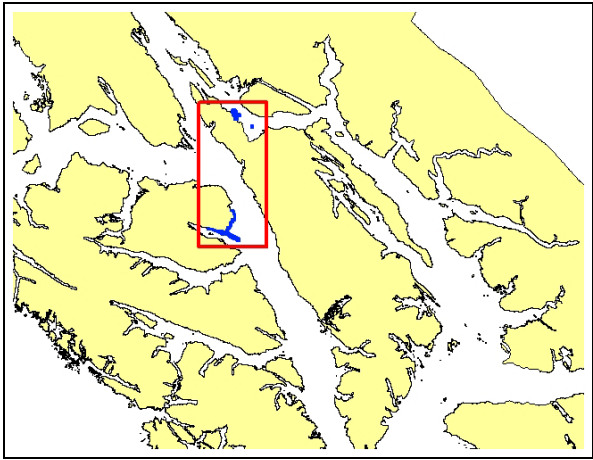
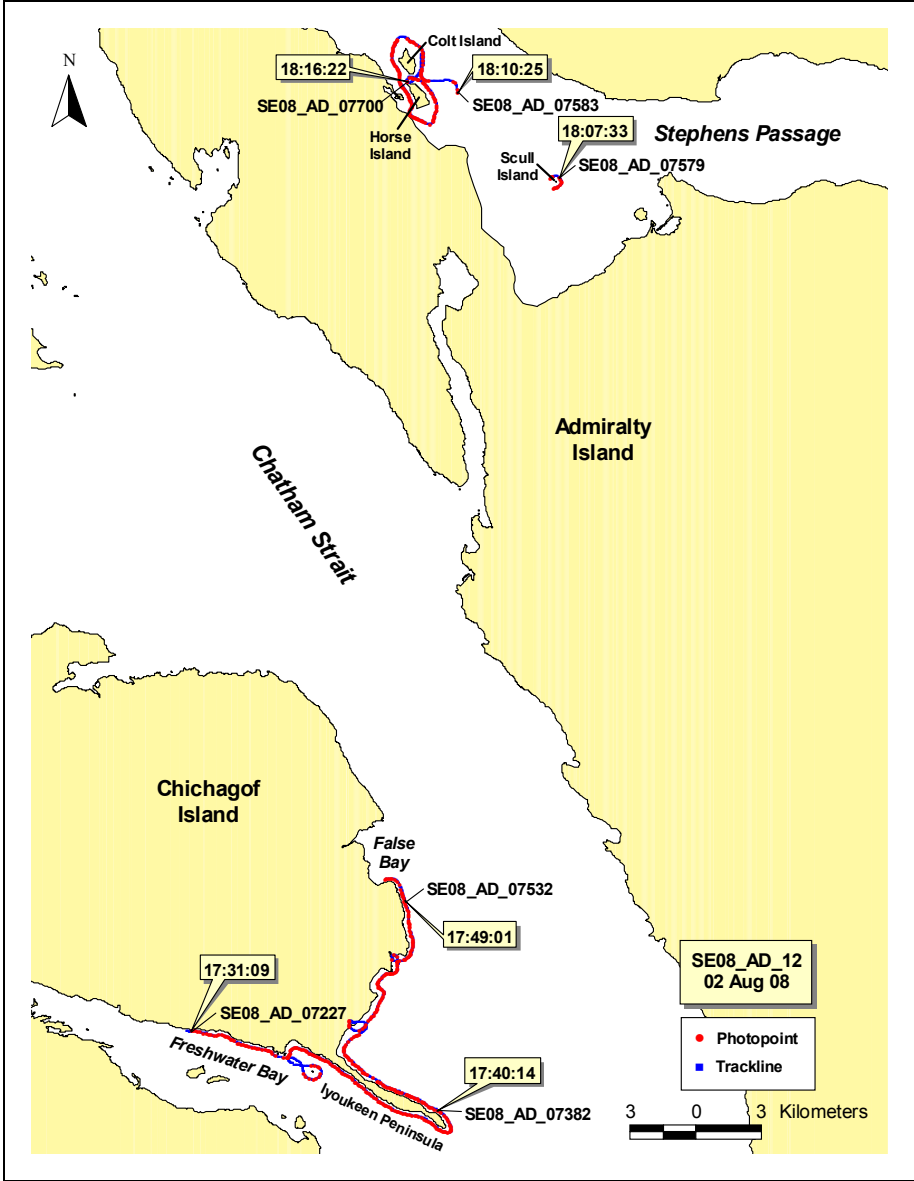
Tape: SE08_AD_11 **Date:** 02 Aug 08

General Location: Chatham Strait, Freshwater Bay

Time Start (UTC): 15:42:44 **Geo:** Morrow
Fuel Break: 16:00:37 to 16:53:49 **Bio:** Lindeberg
Time End (UTC): 17:30:08 **Nav:** Baker
Tape Length: 00:54:10

Weather: Overcast

Time (UTC)	Location	Photo
15:42:49	White Rk., Chatham Strait	SE08_AD_06342
15:52:21	Basket Bay, Chatham Strait	SE08_AD_06506
15:59:55	South Passage Pt.	SE08_AD_06644
	Fuel Break: 16:00:37 to 16:53:49	
16:54:16	East Pt.	SE08_AD_06672
17:00:58	Pavlof Harbor, Freshwater Bay	SE08_AD_06763
17:11:56	West Redcliff Island, Freshwater Bay	SE08_AD_06945
17:29:29	Head of Freshwater Bay	SE08_AD_07129



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

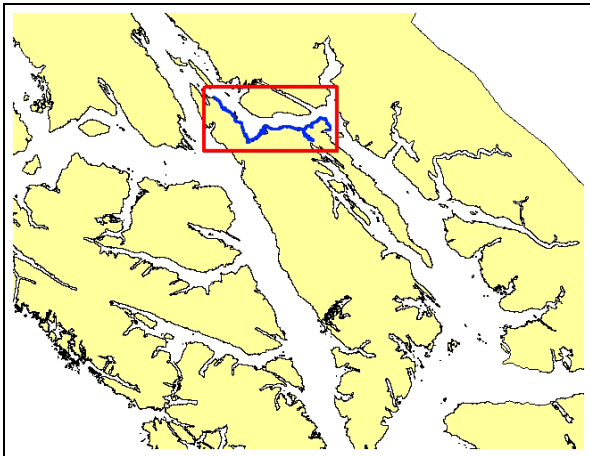
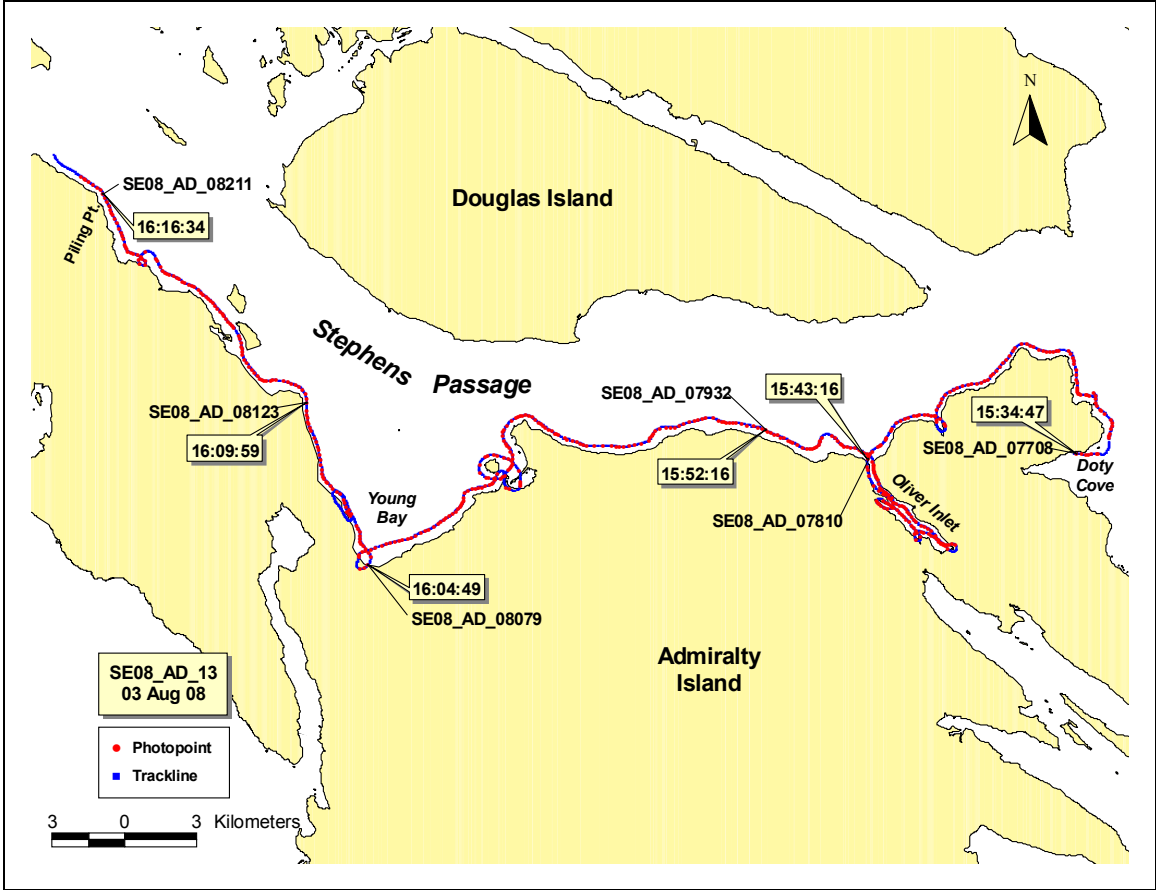
Tape: SE08_AD_12 **Date:** 02 Aug 08

General Location: Freshwater Bay, Chatham Strait, Horse and Colt Islands

Time Start (UTC): 17:31:00 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 18:17:10 **Nav:** Baker
Tape Length: 00:26:28

Weather: Overcast

Time (UTC)	Location	Photo
17:31:09	North side of Freshwater Bay	SE08_AD_07227
17:40:14	Iyoukeen Peninsula	SE08_AD_07382
17:49:01	Chatham Strait, south of False Bay	SE08_AD_07532
	Tape Break: 17:49:57 to 18:07:07 (transit)	
18:07:33	Scull Island, Stephens Passage	SE08_AD_07579
	Tape Break: 18:07:55 to 18:10:23 (transit)	
18:10:25	Horse Island, Stephens Passage	SE08_AD_07583
18:16:22	Colt Island, Stephens Passage	SE08_AD_07700



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

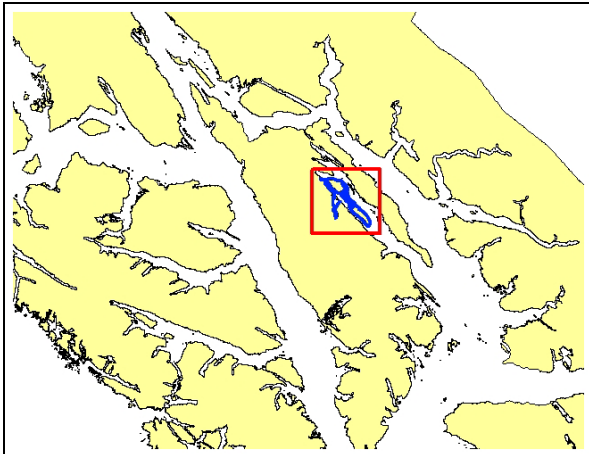
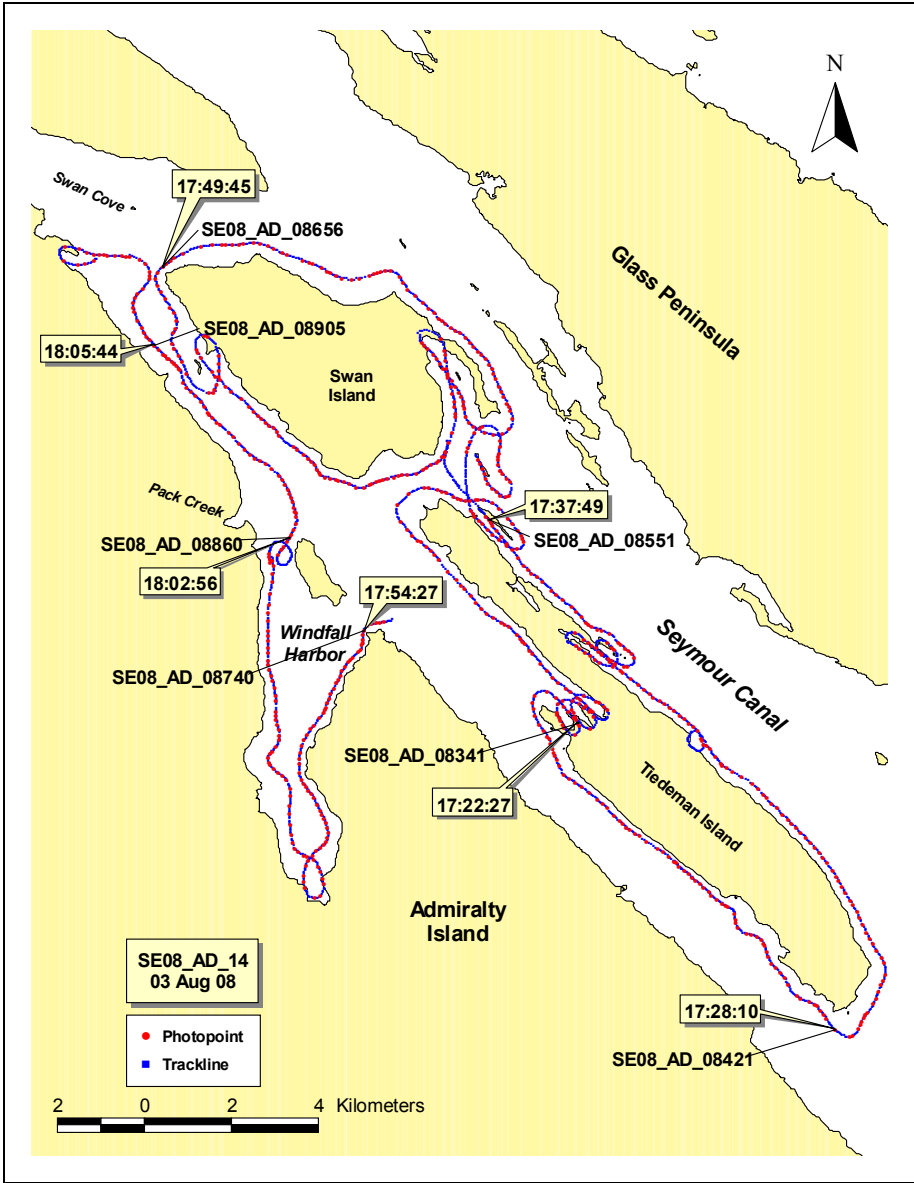
Tape: SE08_AD_13 **Date:** 03 Aug 08

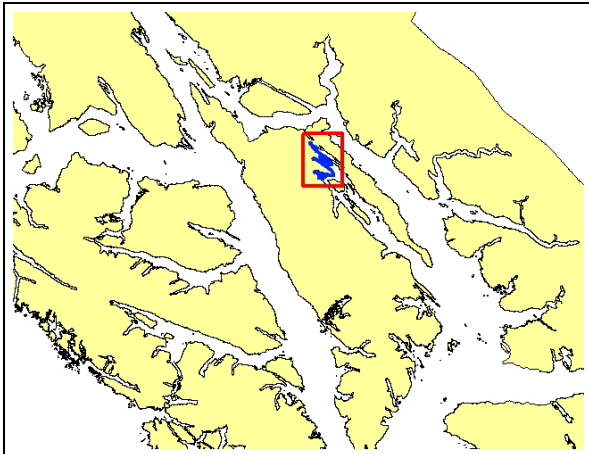
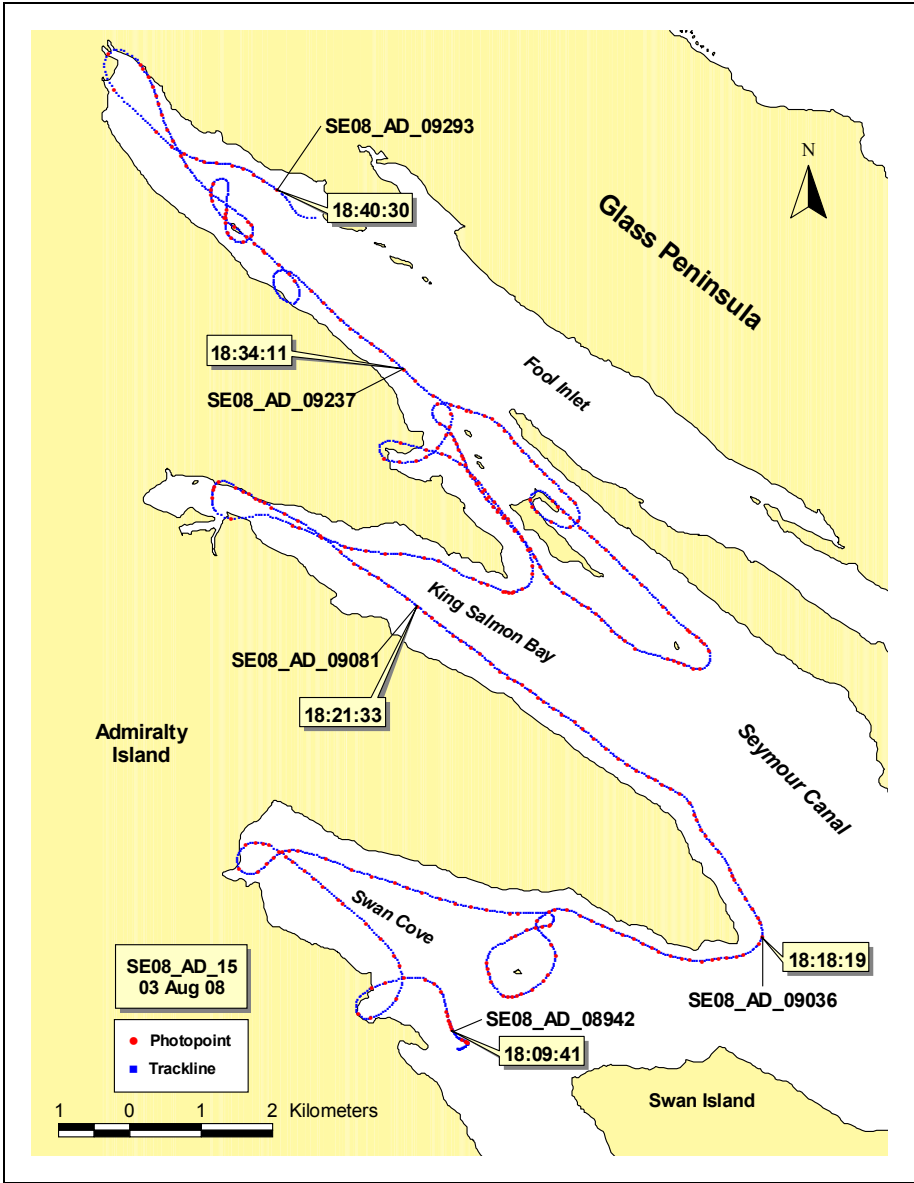
General Location: Stephens Passage, Young Bay

Time Start (UTC): 15:34:45 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 16:17:16 **Nav:** Baker
Tape Length: 00:42:31

Weather: Low Overcast, Fog

Time (UTC)	Location	Photo
15:34:47	Doty Cove, Stephens Passage	SE08_AD_07708
15:43:16	Mouth of Oliver Inlet	SE08_AD_07810
15:52:16	Stephens Passage, West of Oliver Inlet	SE08_AD_07932
16:04:49	Young Bay	SE08_AD_08079
16:09:59	Stephens Passage, north of Young Bay	SE08_AD_08123
16:16:34	Piling Pt, north Stephens Passage	SE08_AD_08211





**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

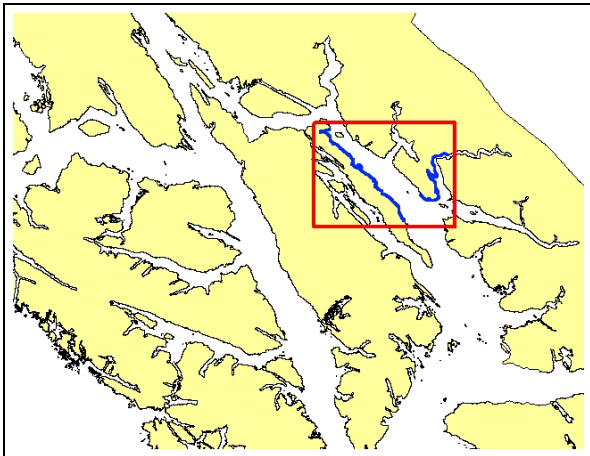
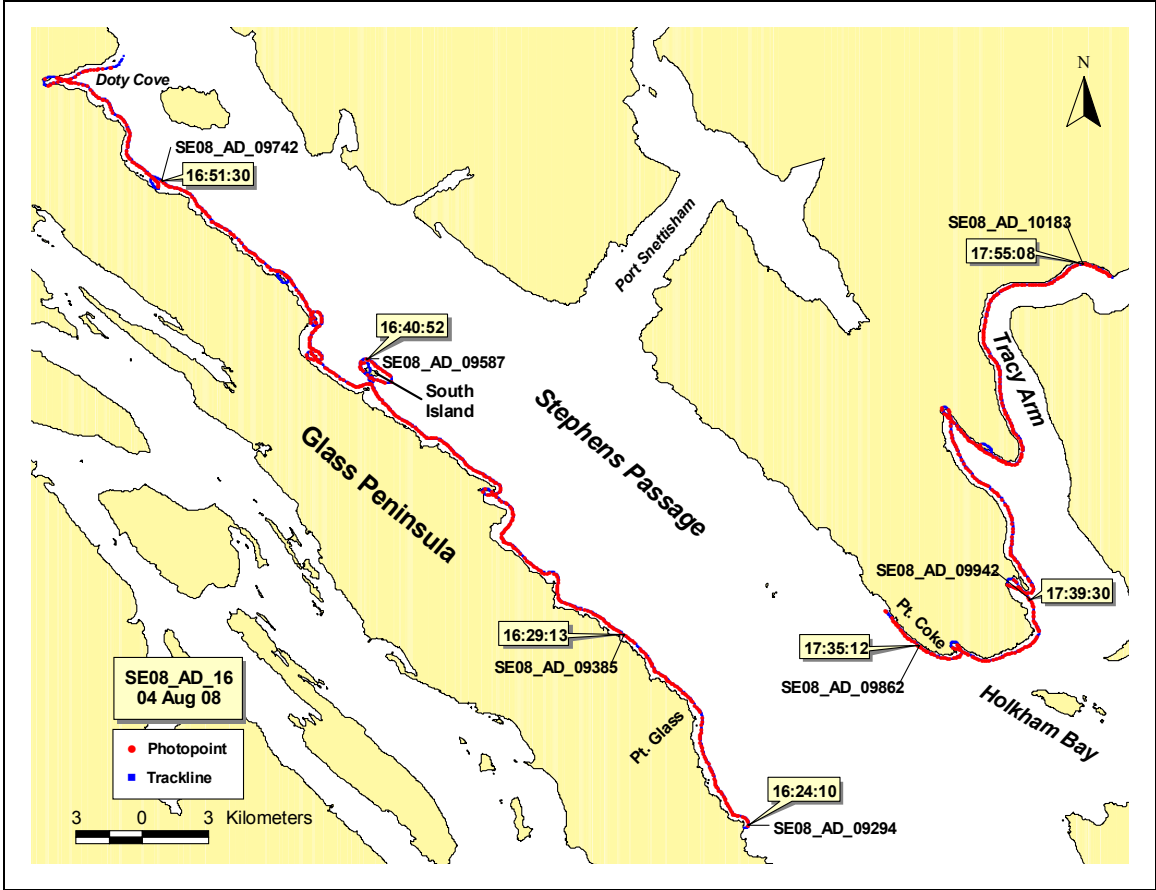
Tape: SE08_AD_15 **Date:** 03 Aug 08

General Location: Swan Cove, King Salmon Bay, Head of Seymour Canal

Time Start (UTC): 18:08:50 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 18:40:48 **Nav:** Baker
Tape Length: 00:31:58

Weather: Low Overcast, Fog

Time (UTC)	Location	Photo
18:09:41	Swan Cove	SE08_AD_08942
18:18:19	Seymour Canal, south of King Salmon Bay	SE08_AD_09036
18:21:33	South side of King Salmon Bay	SE08_AD_09081
18:34:11	Head of Seymour Canal, opposite Fool Inlet	SE08_AD_09237
18:40:30	Head of Seymour Canal	SE08_AD_09293



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

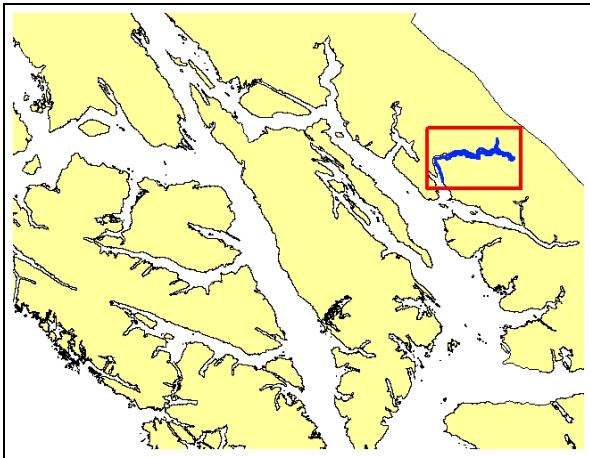
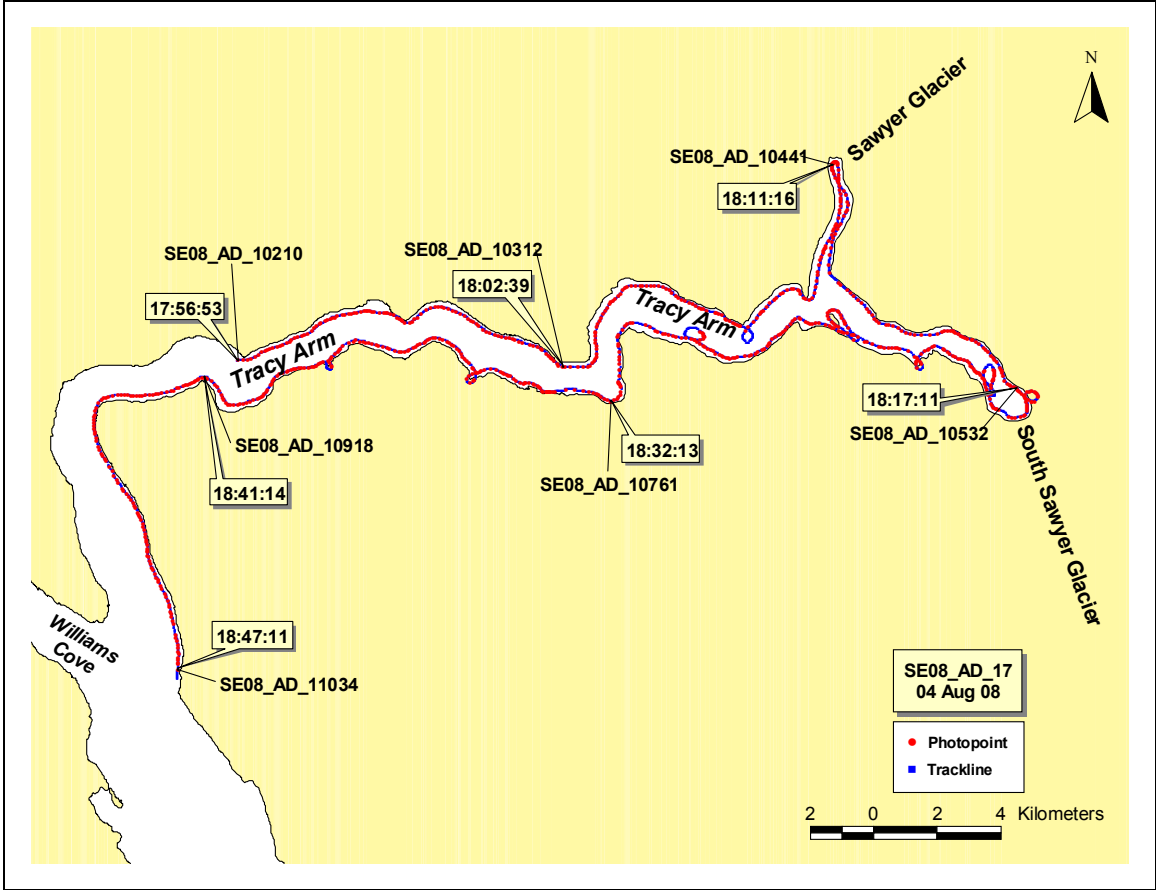
Tape: SE08_AD_16 **Date:** 04 Aug 08

General Location: Stephens Passage, East Glass Peninsula, Tracy Arm

Time Start (UTC): 16:24:00 **Geo:** Morrow
Fuel Break: 16:58:17 to 17:34:05 **Bio:** Lindeberg
Time End (UTC): 17:55:54 **Nav:** Flager
Tape Length: 00:56:04

Weather: High Overcast

Time (UTC)	Location	Photo
16:24:10	South of Pt. Glass, Glass Peninsula	SE08_AD_09294
16:29:13	North of Pt. Glass, Glass Peninsula	SE08_AD_09385
16:40:52	South Island, Stephens Passage	SE08_AD_09587
16:51:30	South of Doty Cove, Glass Peninsula	SE08_AD_09742
	Fuel Break: 16:58:17 to 17:34:05	
17:35:12	Pt. Coke, Stephens Passage	SE08_AD_09862
17:39:30	Holkham Bay	SE08_AD_09942
17:55:08	Tracy Arm	SE08_AD_10183



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

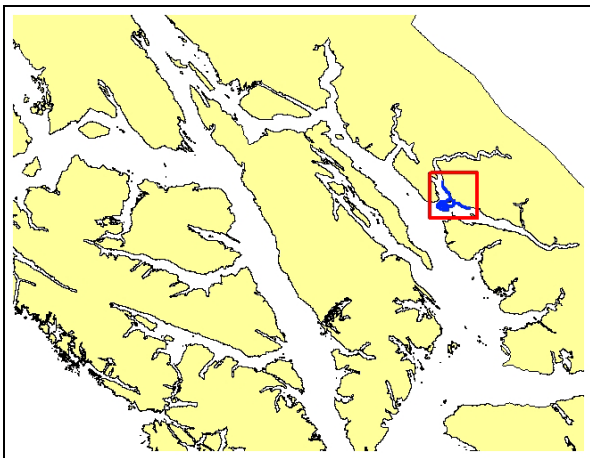
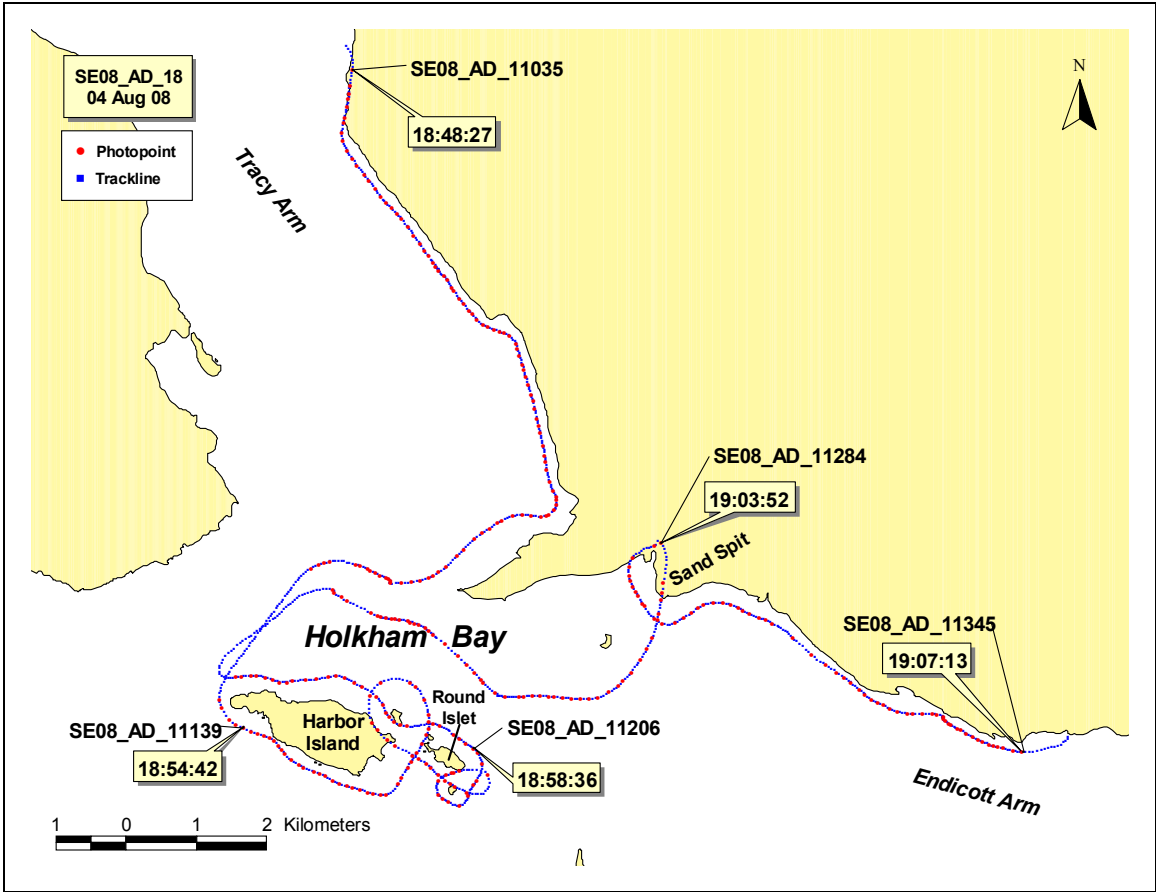
Tape: SE08_AD_17 **Date:** 04 Aug 08

General Location: Tracy Arm

Time Start (UTC): 17:56:52 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 18:47:20 **Nav:** Flager
Tape Length: 00:50:28

Weather: High Overcast

Time (UTC)	Location	Photo
17:56:53	North side of Tracy Arm	SE08_AD_10210
18:02:39	North side of Tracy Arm	SE08_AD_10312
18:11:16	Sawyer Glacier	SE08_AD_10441
18:17:11	South Sawyer Glacier	SE08_AD_10532
18:32:13	South side of Tracy Arm	SE08_AD_10761
18:41:14	South side of Tracy Arm	SE08_AD_10918
18:47:11	Tracy Arm, opposite Williams Cove	SE08_AD_11034



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Admiral (AD)**

Tape: SE08_AD_18 **Date:** 04 Aug 08

General Location: Holkham Bay, Tracy Arm, Endicott Arm

Time Start (UTC): 18:48:20 **Geo:** Morrow
Fuel Break: None **Bio:** Lindeberg
Time End (UTC): 19:07:28 **Nav:** Flager
Tape Length: 00:19:08

Weather: High Overcast









Time (UTC)	Location	Photo
18:48:27	Tracy Arm	SE08_AD_11035
18:54:42	Harbor Island, Holkham Bay	SE08_AD_11139
18:58:36	Round Island, Holkham Bay	SE08_AD_11206
19:03:52	Sand Spit, Holkham Bay	SE08_AD_11284
19:07:13	Endicott Arm	SE08_AD_11345

SE08 AVI Team AD Sample Photos: Seymour Canal

July 30, 2008

Seymour Canal, West Glass Peninsula, Fool Inlet

The head of Seymour Canal was dominated by complex inlets with extensive salt marsh vegetation, as well as Rockweed, Green Algae and Blue Mussels biobands. Canopy kelps and eelgrass were not common in the subtidal zone. Islets in the canal had continuous black lichen in the splash zone, with prominent Rockweed, Barnacle and Soft Brown Kelps biobands.



	
Fool Inlet, Seymour Canal; Two remnant spits - SE08_AD_00142	East Seymour Canal, opposite Swan Island; Lush wetlands vegetation - SE08_AD_00270
	
Seymour Canal, north of Bug Island; bull kelp crowning reef tip - SE08_AD_00425	Winning Cove, Seymour Canal; Patchwork of biota - SE08_AD_00506
	
Seymour Canal, east of Faust Island; Eelgrass bed - SE08_AD_00615	East Seymour Canal, opposite Mole Harbor; Striking biobands - SE08_AD_00862
	
Pleasant Bay, Seymour Canal; Dense blue mussels - SE08_AD_01002	West Seymour Canal, opposite Swan Island; - SE08_AD_01333

SE08 AVI Team AD Sample Photos: Chatham Strait

July 31, 2008

Favorite Channel, Mansfield Peninsula, Chatham Strait

Rockweed, Barnacle and Alaria biobands dominated on the island groups of Favorite Channel. Patchy coralline algae were observed in urchin barrens and dense blue mussel beds were seen on tombolos. In Funter Bay, extensive eelgrass beds were observed and Admiralty's Chatham Strait coastline was highlighted with continuous coralline algae, with Bull Kelp, and Dragon Kelp biobands.

	
Sentinel Is., Favorite Channel - Lighthouse; - SE08_AD_01678	Ralston Island; Tombolo with blue mussel bed - SE08_AD_01826
	
Ralston Island; Rock platform - SE08_AD_01833	Funter Bay; Eelgrass bed - SE08_AD_02496
	
Chatham Strait, south of Funter Bay; Quartz veins and coralline algae - SE08_AD_02571	Head of Hawk Inlet; Stream delta - SE08_AD_02746
	
Cube Cove, Chatham Strait; Log transfer site - SE08_AD_03008	Kootznahoo Head, Chatham Strait; Dense Dragon Kelp bioband alongshore - SE08_AD_03361

SE08 AVI Team AD Sample Photos: Peril Strait

August 1, 2008

Peril Strait, Hoonah Sound, Kakul Narrows

Peril Strait had two very different but productive habitats. Many large stream deltas were found with wide biobands of Sedges, Blue Mussel, and Eelgrass. In contrast, the higher current areas of the strait were dominated by extensive beds of Bull Kelp and Dragon Kelp biobands.









<p>Head of Deep Bay, Peril Strait; Stream delta, no eelgrass - SE08_AD_03993</p>	<p>Schulze Cove, Fish Bay; Cobble beach with Rockweed, Barnacle and Soft Brown Kelps biobands - SE08_AD_04380</p>
<p>Head of Fish Bay, Peril Strait; Stream delta with eelgrass - SE08_AD_04468</p>	<p>Kakul Narrows, Peril Strait; <i>Laminaria setchellii</i> - SE08_AD_04606</p>
<p>Kakul Narrows, Peril Strait; <i>Alaria marginata</i>, dragon kelp - SE08_AD_04610</p>	<p>Salisbury Sound near Kane Island; Giant kelp <i>Macrocystis</i> - SE08_AD_04664</p>
<p>Sergius Narrows, Peril Strait; High current channel - SE08_AD_04890</p>	<p>Vixen Island, Hoonah Sound; Sedge on upper platform -SE08_AD_05063</p>

SE08 AVI Team AD Sample Photos: Peril Strait

August 2, 2008

Peril Strait, Chatham Strait, Freshwater Bay

Karst formations created striking biobands of Barnacle, Blue Mussel, Alaria, brown understory kelps and the canopy-forming bull kelp. Cliffs with dramatic undercuts had barnacles and blue mussels packed in erosional crevices and nearly-vertical smooth rock was dominated by filamentous red algae and coralline algae.









	
Chatham, Sitkoh Bay; Old cannery site - SE08_AD_06041	Peninsular Pt., Chatham Strait; Undercuts with Blue Mussel and Red Algae biobands - SE08_AD_06247
	
South Passage Pt., Chatham Strait; Cobble biobanding - SE08_AD_06644	West Redcliff Island, Freshwater Bay; Emergent rock ramps - SE08_AD_06945
	
Head of Freshwater Bay; Large stream delta - SE08_AD_07129	Iyoukeen Peninsula, Chatham Strait; Karst formations Alaria, Soft Brown Kelps and Bull Kelp biobands - SE08_AD_07382
	
Chatham Strait, south of False Bay; Karst, Alaria and Soft Brown Kelps biobands - SE08_AD_07532	Chatham Strait, south of False Bay; Close-up of Karst, Barnacle and Blue Mussel biobands - SE08_AD_07559

SE08 AVI Team AD Sample Photos: Seymour Canal

August 3, 2008

Stephens Passage, Seymour Canal

Extensive bull kelp beds characterized the northeast shoreline of Admiralty Island. Seymour Canal was dominated by large stream deltas with extensive biobands of Green Algae, Rockweed, Blue Mussel and Soft Brown Kelps. Island groups had reef areas dominated by gardens of the plumose anemone *Metridium* and coves crowned with patchy eelgrass.









	
<p>Entrance to Oliver Inlet, Stephens Passage; Channel with dense Blue Mussel biobands - SE08_AD_07810</p>	<p>Stephens Passage, west of Oliver Inlet; Rockweed, Soft Brown Kelps and Bull Kelp biobands - SE08_AD_07932</p>
	
<p>West Tiedeman Island, Seymour Canal; mats of Rockweed - SE08_AD_08341</p>	<p>North Tiedeman Island, Seymour Canal; Eelgrass bed - SE08_AD_08551</p>
	
<p>North Swan Island, Seymour Canal; Laminarian benthic kelp bed - SE08_AD_08656</p>	<p>Pack Creek bear observatory; Stream delta - SE08_AD_08860</p>
	
<p>West Seymour Canal, opposite Swan Island; Green Algae bioband - SE08_AD_08905</p>	<p>West Seymour Canal, south of King Salmon Bay; <i>Metridium</i> anemone garden - SE08_AD_09036</p>

SE08 AVI Team AD Sample Photos: Tracy Arm

August 4, 2008

Stephens Passage, West Glass Peninsula, Tracy Arm

The shoreline of eastern Admiralty Island has extensive urchin barrens but a narrow Bull Kelp bioband. The entrance of Tracy arm is dominated by biobands of Barnacle, Blue Mussel, striking coralline Red Algae, and Dragon Kelp. Biodiversity dramatically declines towards the head of Tracy Arm as the near vertical rock walls are scoured by glacial ice, revealing only ephemeral, filamentous green algae near the glacier.

	
East Glass Peninsula, north of Pt. Glass; Rockweed, Barnacle and Alaria biobands - SE08_AD_09385	South Island, Stephens Passage; Island with rock ramp - SE08_AD_09587
	
East Glass Peninsula, south of Doty Cove; Bull kelp and urchin barrens - SE08_AD_09742	Pt. Coke, Stephens Passage; Coralline algae and Dragon Kelp - SE08_AD_09862
	
Holkham Bay, south of Williams Cove; Stream delta - SE08_AD_09942	North side Tracy Arm; Glacial scour on cliff - SE08_AD_10312
	
South Sawyer Glacier, Tracy Arm; Recent calving on glacier face - SE08_AD_10535	South side Tracy Arm; White seaside lichen - SE08_AD_10918

References

Harney, J.N., Morris, M., and Harper, J.R. 2008. ShoreZone Coastal Habitat Mapping Protocol for the Gulf of Alaska. Report prepared for The Nature Conservancy, NOAA National Marine Fisheries Service, and the Alaska State Department of Natural Resources (Juneau, AK). 153 p.

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Access and Use Constraints

Protocols for data access and distribution are established by the program partner agencies. Please see www.coastalandoceans.com for a list of partner agencies and related web sites. Video imagery can be viewed and digital stills downloaded online at www.alaskafisheries.noaa.gov/maps/szintro.htm. Any hardcopies or published data sets utilizing ShoreZone products shall clearly indicate their source. To ensure distribution of the most current public information or for correct interpretation, contact the ShoreZone project manager at Coastal and Ocean Resources, Inc. At the time of publication, that person is Dr. Jodi Harney.

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