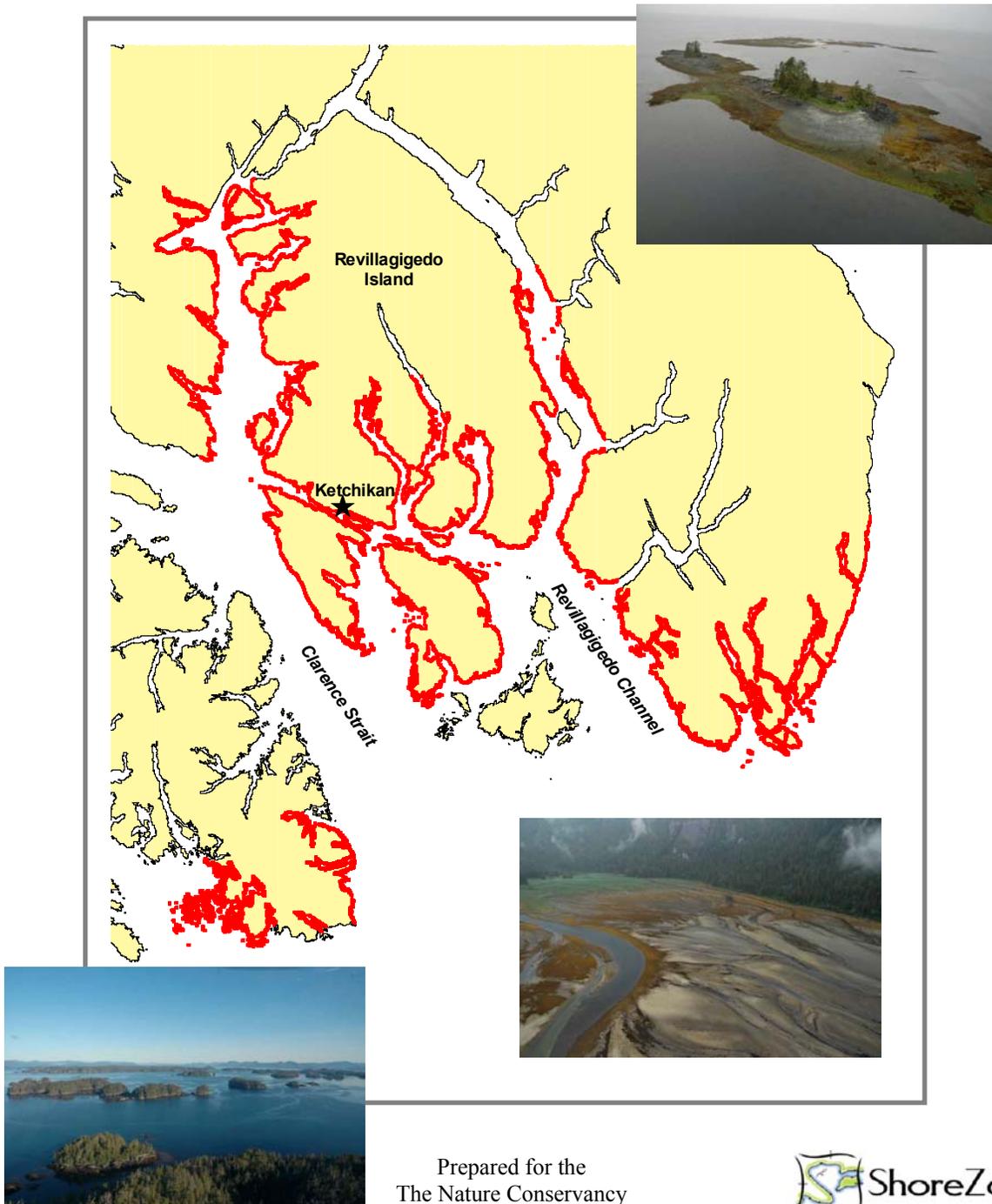


*2006 Aerial Video Imaging Survey,
Southeast Alaska
(25th - 30th, May 2006)*



Prepared for the
The Nature Conservancy
Juneau, Alaska



COASTAL & OCEAN RESOURCES INC.

214-9865 W. Saanich Rd., Sidney, BC V8L 5Y8

www.coastalandoceans.com



This survey combines the use of digital video camera technology with real-time GPS mapping to image the shoreline of areas in southeast Alaska: Revillagiedo Channel, Behm Channel, Revillagiedo Island, Annette Island, Gravina Island, southern end of Misty Fiords National Monument and southern tip of Prince of Wales Island at low tide. The unusual features of the survey are: (a) the survey was conducted during the lowest tides of the year so the entire intertidal zone is imaged; (b) the technique is not weather dependent so imagery can be collected in any conditions under which aircraft can fly and; (c) both a coastal ecologist and coastal geomorphologist were in the aircraft providing real-time commentary on intertidal features that may not be visible on the imagery.

The survey was conducted by Coastal & Ocean Resources, Inc. (CORI), of Sidney, BC under contract to The Nature Conservancy, located in Juneau Alaska.

This report is divided into two sections, one for each flight survey team. Section 1 (Team Sandlance) begins on Page 4 and Section 2 (Team Georgia Lee) begins on Page 40. The flight crew names and responsibilities are summarized in Tables 1 and 2. Figure A (Page 2) and Figure B (Page 3) shows the overall flight coverage for each team by tape number.

Table 1: Southeast Alaska AVI Flight Personnel and Responsibilities (Team Sandlance)

Function	Individual/ Affiliation	Responsibilities
<i>Geomorphologist Project leader</i>	Neil Borecky CORI	co-ordination of survey, video imaging, geomorphology commentary, project reporting
<i>Coastal ecologist</i>	Mary Morris, Archipelago Marine Resources	biology commentary, digital photographs
<i>Navigator</i>	Heather Anderson Archipelago Marine Resources	in flight navigation & recording, post-flight track plotting
<i>Pilot</i>	Bill Sneider, Coastal Helicopters	

Table 2: Southeast Alaska AVI Flight Personnel and Responsibilities (Team Georgia Lee)

Function	Individual/ Affiliation	Responsibilities
<i>Geomorphologist Project leader</i>	Jodi Harney CORI	co-ordination of survey, video imaging, geomorphology commentary, project reporting
<i>Coastal ecologist</i>	Mandy Lindeberg, NMFS at Auke Bay Marine Lab	biology commentary, digital photographs
<i>Navigator</i>	Kalen Morrow CORI	in flight navigation & recording, post-flight track plotting
<i>Pilot</i>	Lewis Hart, Coastal Helicopters	

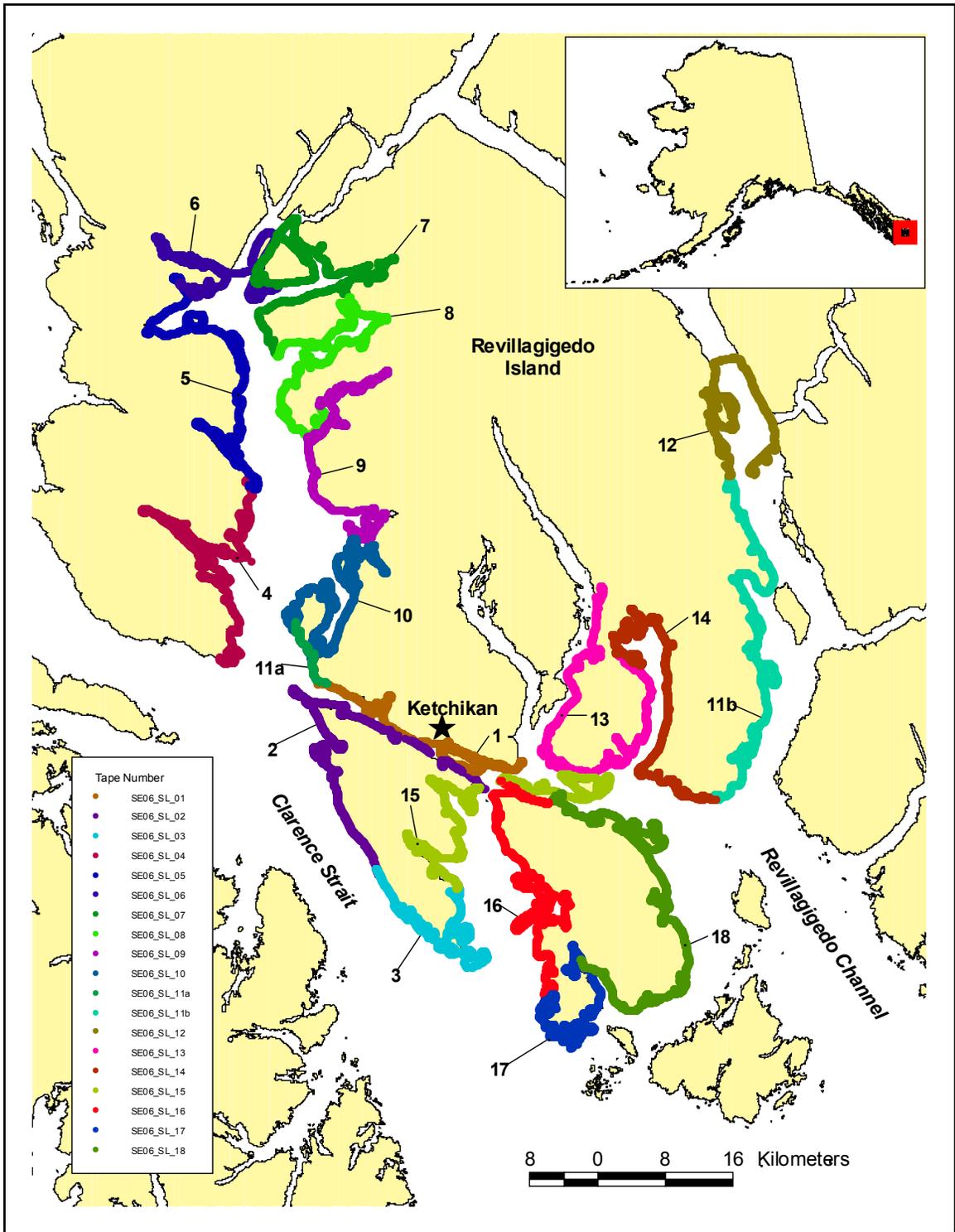


Figure A. Overview of Team Sandlance flight coverage

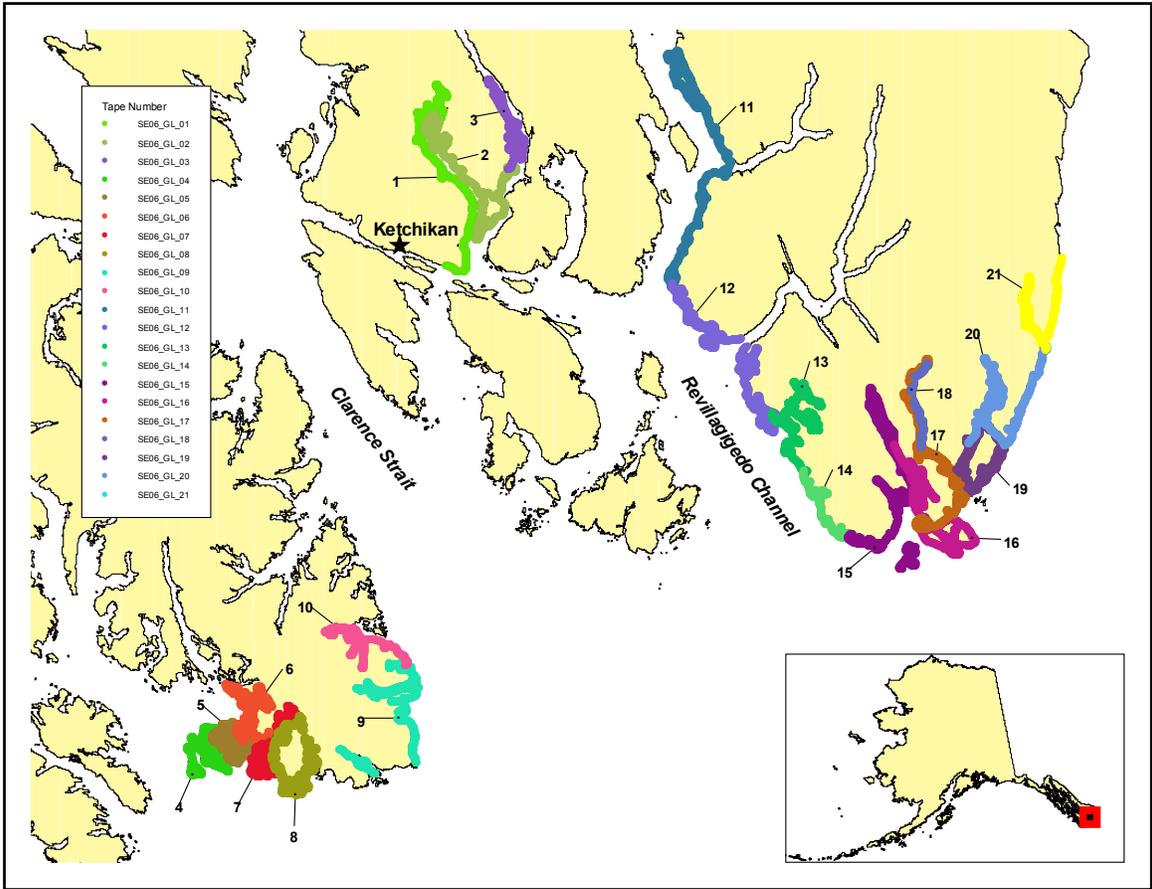


Figure B. Overview of Team Georgia Lee flight coverage

Section 1: Team Sandlance

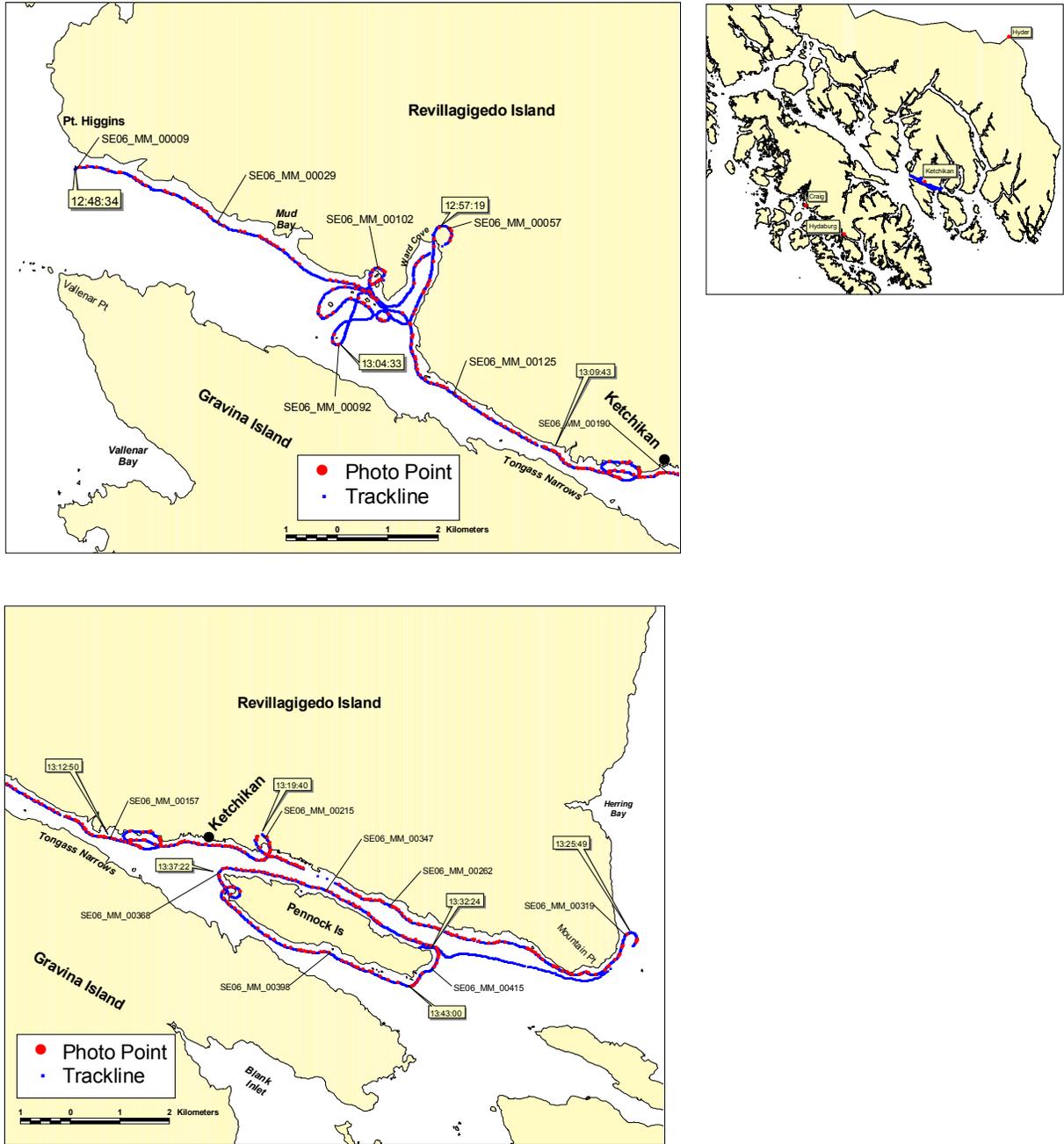


Figure 1. Location of Tape SE06_SL_01, 25 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_01 **Date:** 25 May 06

General Location: Tongass Narrows, Ketchikan

Time Start (UTC): 12:48:34

Geo: Borecky

Time End (UTC): 13:47:15

Bio: Morris

Tape Length: 55:20

Nav: Anderson

Weather: low ceiling; rain

Time (UTC)	Location	Photo
12:48:35	Pt. Higgins	SE06 MM 00009
12:57:17	Head of Ward Cove	SE06 MM 00017
13:17:41	Ketchikan	SE06 MM 00200
13:29:15	Mountain Point	SE06 MM 00319
13:32:34	NE corner of Pennock Is	SE06 MM 00327
13:37:32	western tip, Pennock Is	SE06 MM 00377
13:43:04	SE corner of Pennock Is	SE06 MM 00410

Notes: Intermittent GPS logging problem in 4-5 locations; traced to laptop; can rebuild gaps from video burn-in

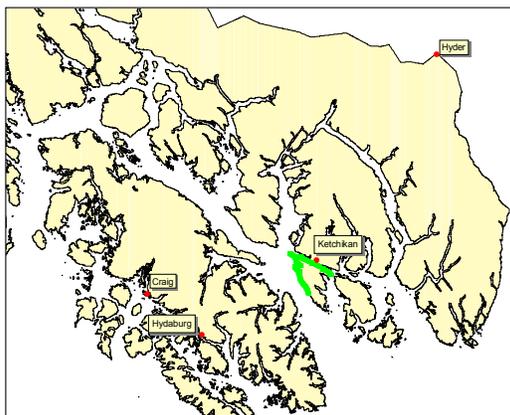
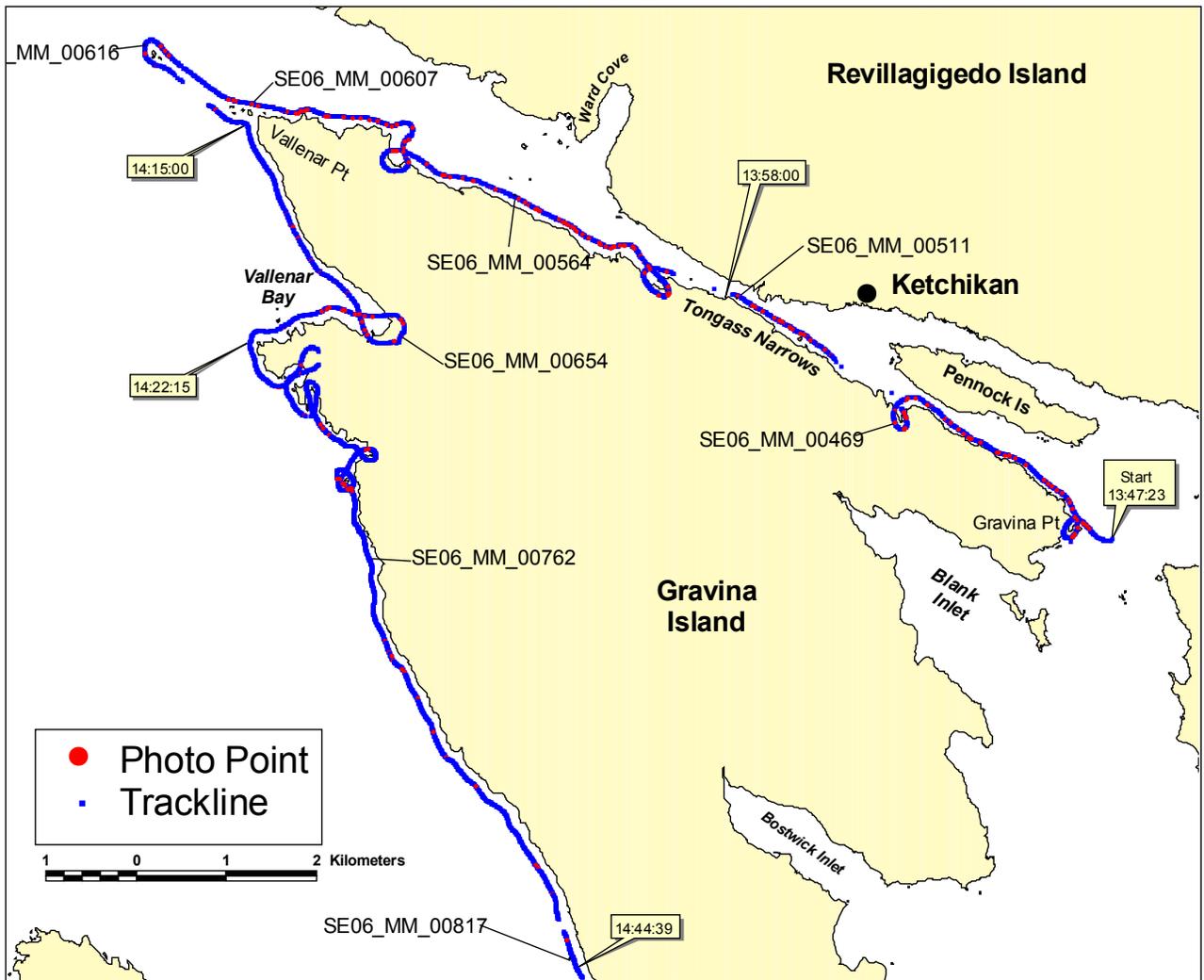


Figure 2. Location of Tape SE06_SL_02, 25 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_02 **Date:** 25 May 06

General Location: Tongass Narrows, W. Gravina Is

Time Start (UTC): 13:47:15 **Geo:** Borecky
Time End (UTC): 14:44:39 **Bio:** Morris
Tape Length: 57:24 **Nav:** Anderson

Weather: low ceiling; rain

Time (UTC)	Location	Photo
13:47:51	Gravina Pt, eastern tip of Gravina Is	SE06 MM 00427
13:58:02	The Narrows	SE06 MM 00509
14:14:50	Vallenar Pt	SE06 MM 00628
14:19:22	head of Vallenar Bay	SE06 MM 00653
14:30:05	head of Grant Cove	SE06 MM 00714
14:44:39	end Tape, west coast Gravina is	SE06 MM 00817

Notes: Intermittent GPS logging problem in 4-5 locations; traced to laptop; can rebuild gaps from video burn-in

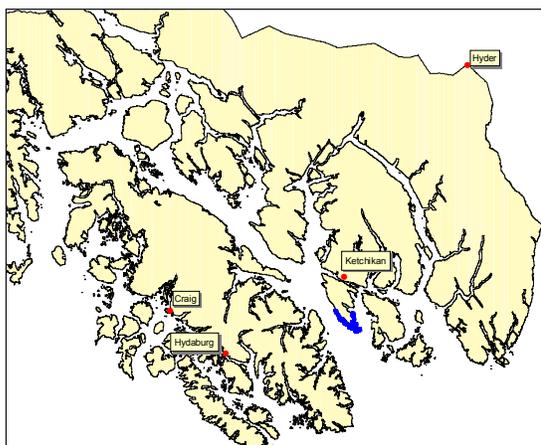
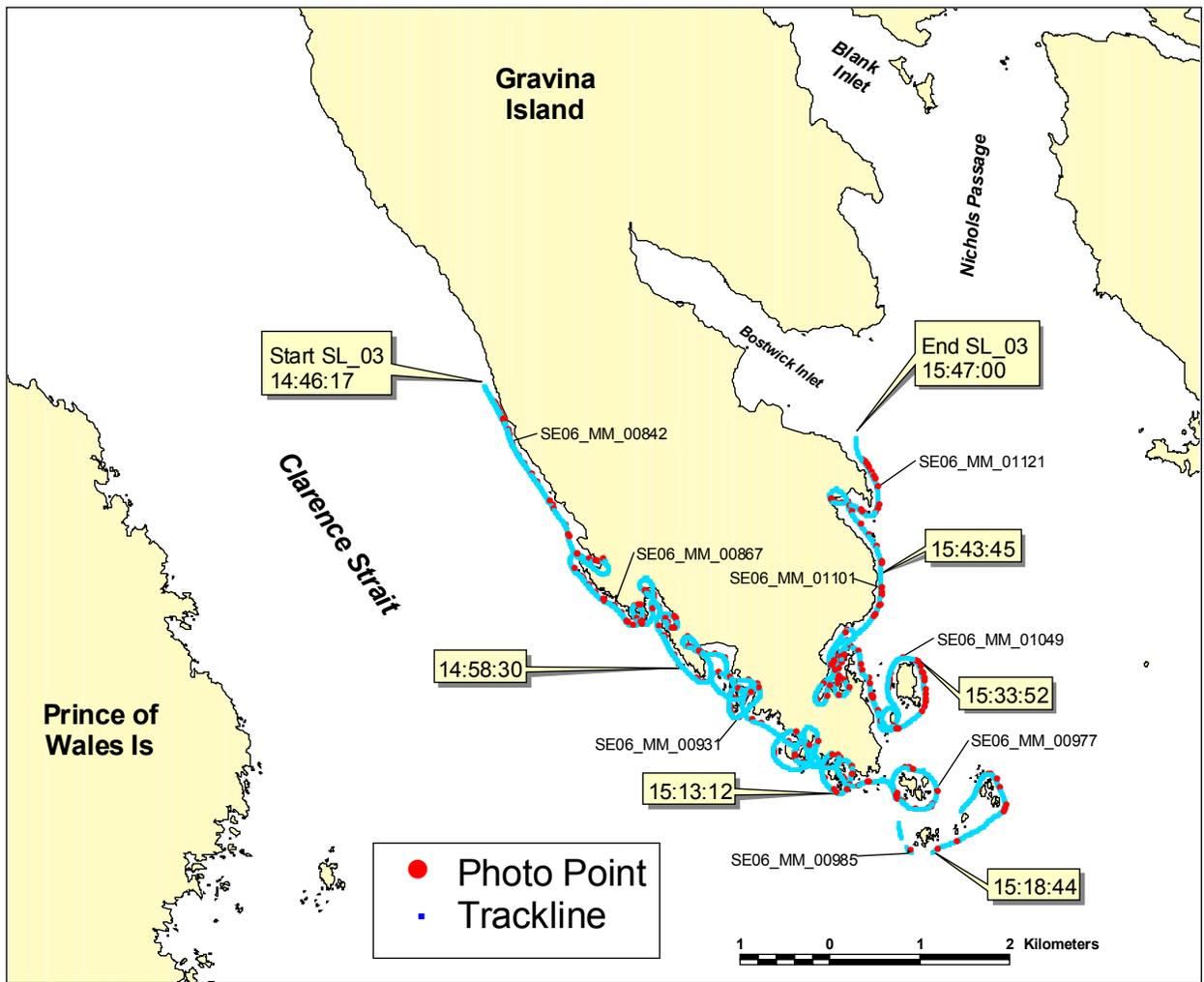


Figure 3. Location of Tape SE06_SL_03, 25 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_03 **Date:** 25 May 06

General Location: Gravina Island, Ketchikan

Time Start (UTC): 14:46:17

Geo: Borecky

Time End (UTC): 15:47:00

Bio: Morris

Tape Length: 59:43

Nav: Anderson

Weather: low ceiling; rain

Time (UTC)	Location	Photo
14:46:17	start, west coast Gravina Is	SE06 MM 00827
15:00:06	head of Nehenta Bay	SE06 MM 00884
15:13:12	Dall Head, Gravina Is	SE06 MM 00968
15:18:44	southern tip, Bronaugh Is	SE06 MM 00985
15:33:52	northern tip of island in Dall Bay	SE06 MM 01014
15:47:00	end tape, south entrance of Bostwick Inlet	SE06 MM 00410

Notes: Intermittent GPS logging problem in 4-5 locations; traced to laptop; can rebuild gaps from video burn-in

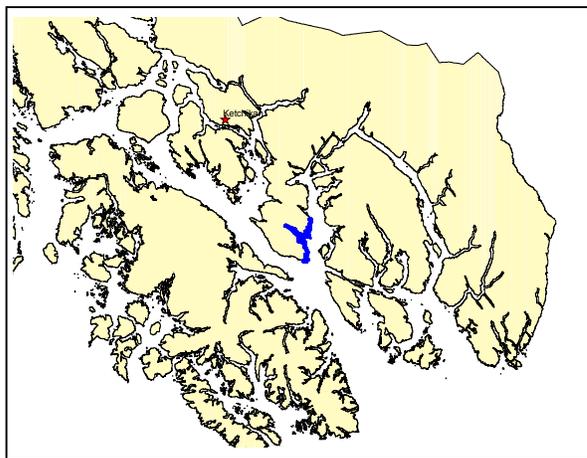
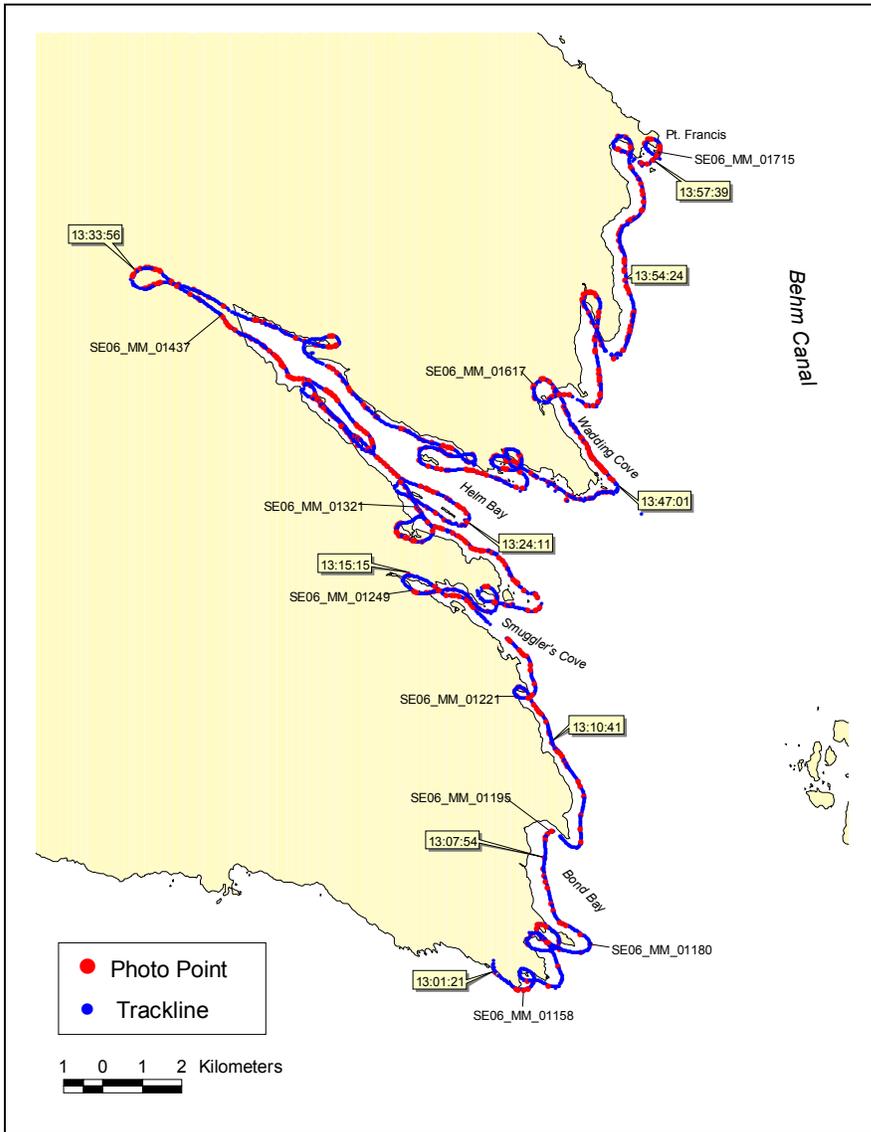


Figure 4. Location of Tape SE06_SL_04, 26 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_04 **Date:** 26 May 06

General Location: West shore of Behm Canal

Time Start (UTC): 13:01:10 **Geo:** Borecky
Time End (UTC): 13:58:31 **Bio:** Morris
Tape Length: 57:21 **Nav:** Anderson

Weather: low ceiling; rain

Time (UTC)	Location	Photo
13:01:10	start, Caamano Pt, west shore Behm Canal	SE06 MM 01153
13:06:17	Bond Bay	SE06 MM 01180
13:15:37	Smuggler's Cove	SE06 MM 01249
13:32:24	Head of Helm Bay	SE06 MM 01437
13:49:28	Head of Wadding Cove	SE06 MM 01617
13:57:48	Pt. Francis	SE06 MM 01715

Notes: Intermittent GPS logging problem in 4-5 locations; traced to laptop; can rebuild gaps from video burn-in

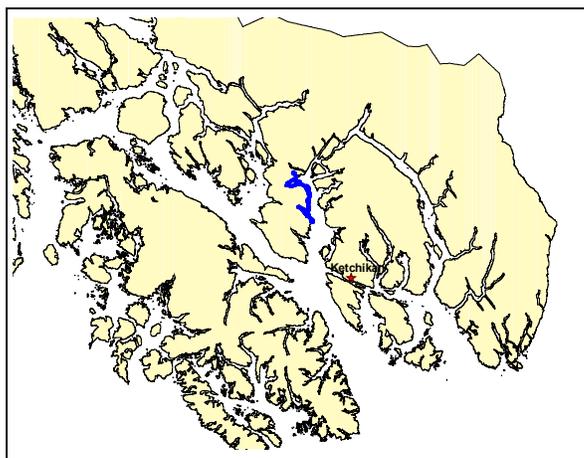
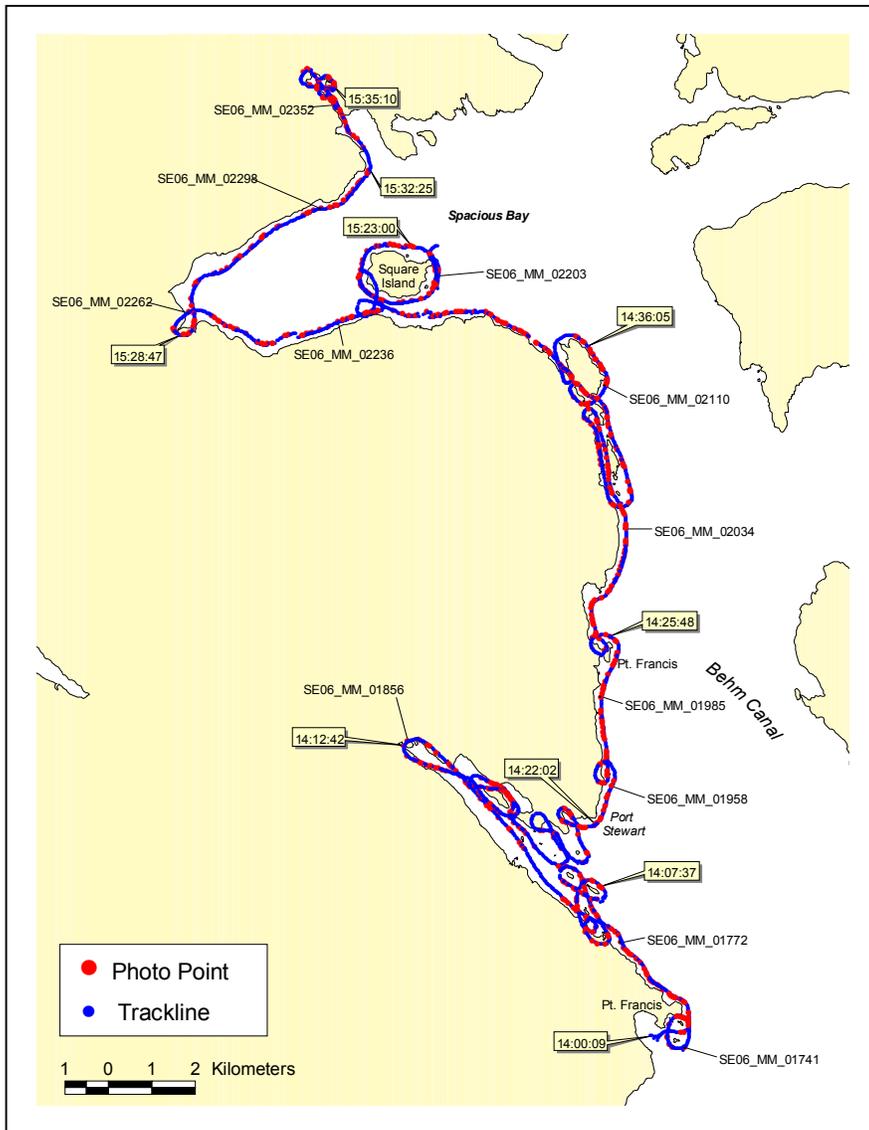


Figure 5. Location of Tape SE06_SL_05, 26 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_05 **Date:** 26 May 06

General Location: West side Behm Canal, Helm Bay to Spacious Bay

Time Start (UTC): 14:00:05 **Geo:** Borecky
Fuel Break 14:44:02 to 15:22:02 **Bio:** Morris
Time End (UTC): 15:36:12 **Nav:** Anderson
Tape Length: 58min, 9 sec

Weather: Overcast with sunny periods.

Time (UTC)	Location	Photo
14:02:25	Pt Francis	SE06_MM_01745
14:12:28	Head of Helm Bay	SE06_MM_01859
14:21:56	North side, mouth of Helm Bay	SE06_MM_01950
14:25:28	Heckman Point	SE06_MM_01995
14:36:17	Snail Point	SE06_MM_02126
	Fuel Break 14:44:02 to 15:22:02	
15:23:20	N.side Square Island in Spacious Bay	SE06_MM_02214
15:29:19	Head of Spacious Bay	SE06_MM_02276
15:34:14	Unnamed estuary N. side Spacious Bay	SE06_MM_02329

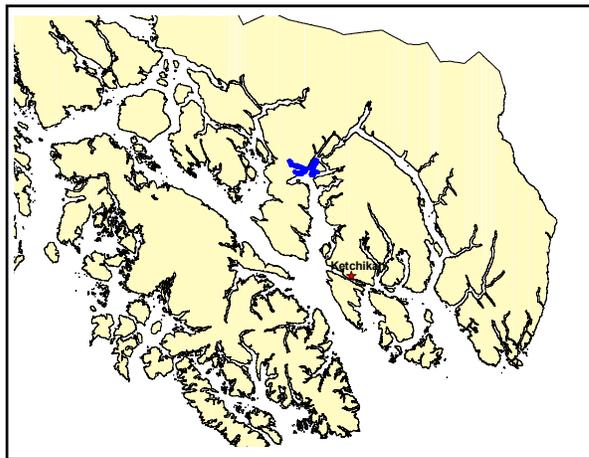
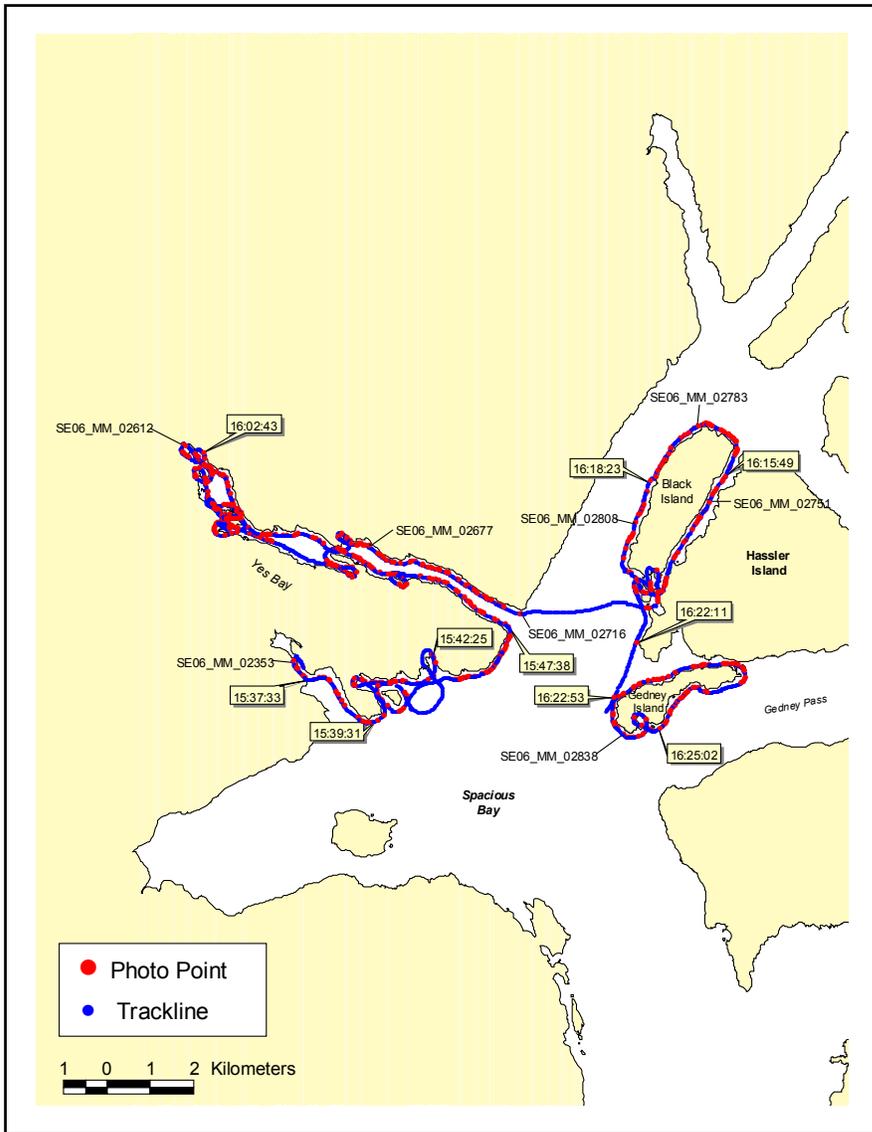


Figure 6. Location of Tape SE06_SL_06, 26 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_06 **Date:** 26 May 06

General Location: West Side Behm Canal, Spacious Bay to Gedney and Black Islands

Time Start (UTC): 15:37:14 **Geo:** Borecky
Time End (UTC): 16:30:00 **Bio:** Morris
Tape Length: 52:46 **Nav:** Anderson

Weather: Overcast with sunny periods.

Time (UTC)	Location	Photo
15:38:10	North side of spacious bay.	SE06_MM_02360
15:47:15	Bluff Point	SE06_MM_02446
16:01:56	Head of Yes Bay	SE06_MM_02612
16:10:16	North side, mouth of Yes Bay	SE06_MM_02715
16:16:45	N. side Black Island	SE06_MM_02776
16:19:52	S. side Black Island	SE06_MM_02819
16:29:40	Gedney I.	SE06_MM_02911

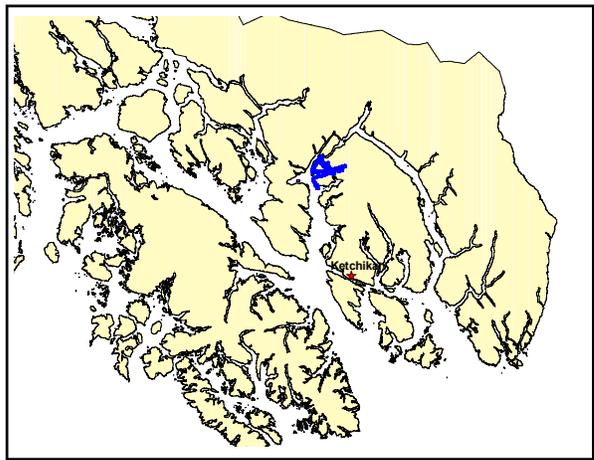
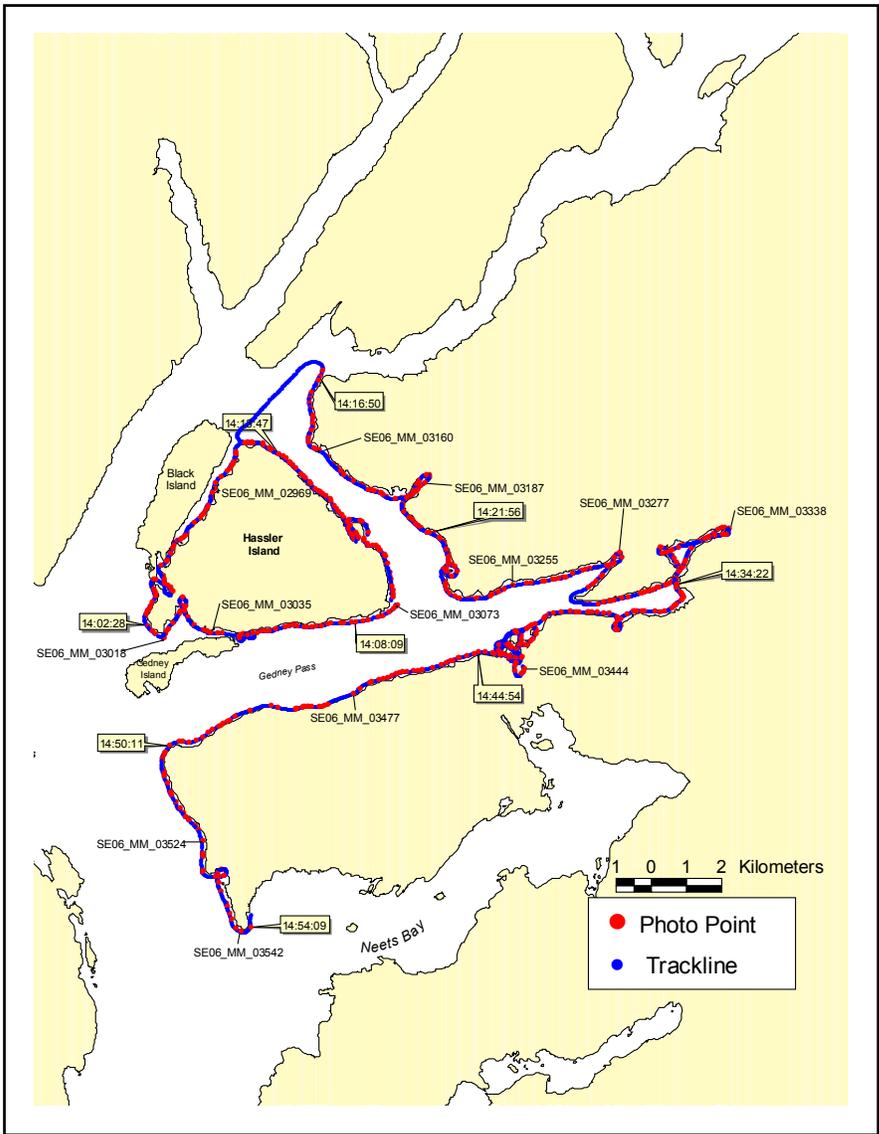


Figure 7. Location of Tape SE06_SL_07, 27 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_07 **Date:** 27 May 06

General Location: Hassler Island, Gedney Pass, Shrimp and Kiu Bay

Time Start (UTC): 13:57:02 **Geo:** Borecky
Time End (UTC): 14:54:23 **Bio:** Morris
Tape Length: 57:21 **Nav:** Anderson

Weather: Sunny, bright filming conditions

Time (UTC)	Location	Photo
13:57:25	N. point of Hassler Island	SE06_MM_02958
14:08:59	SE point of Hassler Island	SE06_MM_03073
14:16:44	Curlew Pt.	SE06_MM_03140
14:24:01	Dress point, Gedney Pass	SE06_MM_03239
14:32:48	Head of Kiu Bay	SE06_MM_03338
14:44:54	S. side Gedney Pass	SE06_MM_03452
14:50:11	Brow Point, mouth of Gedney Pass	SE06_MM_03506
14:54:09	Chin Point, mouth of Neets Bay	SE06_MM_3543

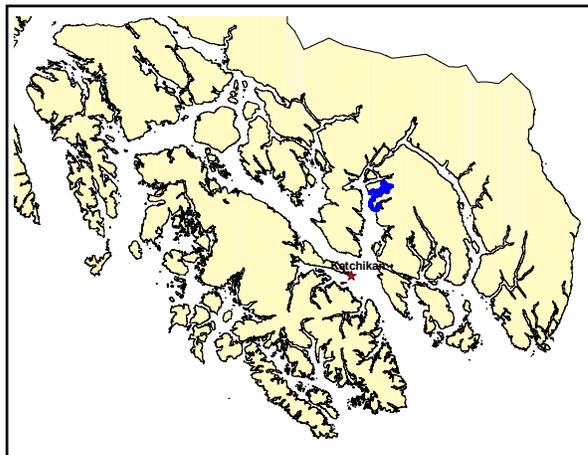
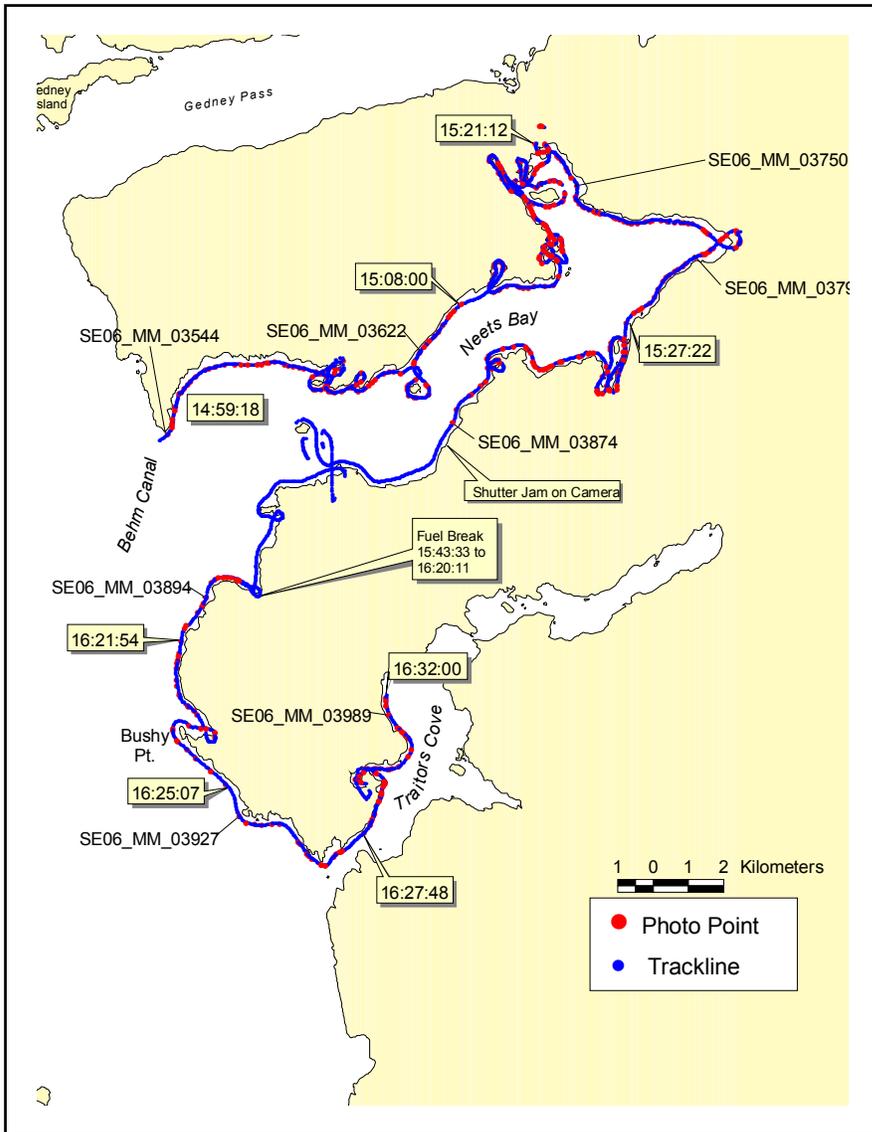


Figure 8. Location of Tape SE06_SL_08, 27 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_08 **Date:** 27 May 06

General Location: Neets Bay, Bushy Pt., Traitor's Cove

Time Start (UTC):	14:58:12	Geo:	Borecky
Fuel Break	15:43:33 to 16:20:11	Bio:	Morris
Time End (UTC):	16:32:02	Nav:	Anderson
Tape Length:	57:15		

Weather: Sunny, bright filming conditions

Time (UTC)	Location	Photo
14:58:21	Chin Point, Neets Bay	SE06_MM_03544
15:15:06	N. side, Neets Bay near head of bay.	SE06_MM_03689
15:30:14	Fire Cove	SE06_MM_03835
	Fuel Break 15:43:33 to 16:20:11	
16:20:48	Fuel Cache near Bushy Point	SE06_MM_03888
16:24:20	Bushy Point	SE06_MM_03920
16:25:58	Mouth of Traitors Cove	SE06_MM_03941
16:32:00	N. side of Traitors Cove	SE06_MM_03992

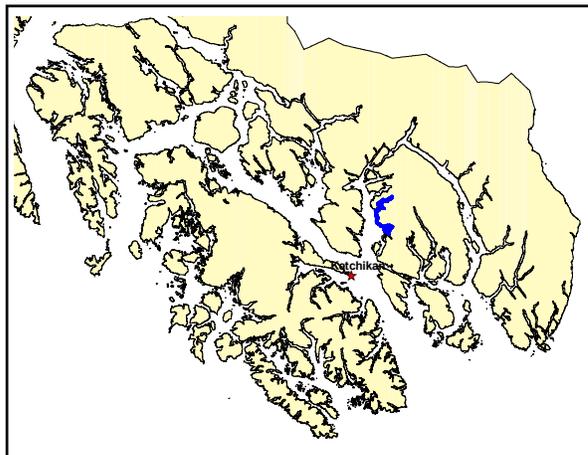
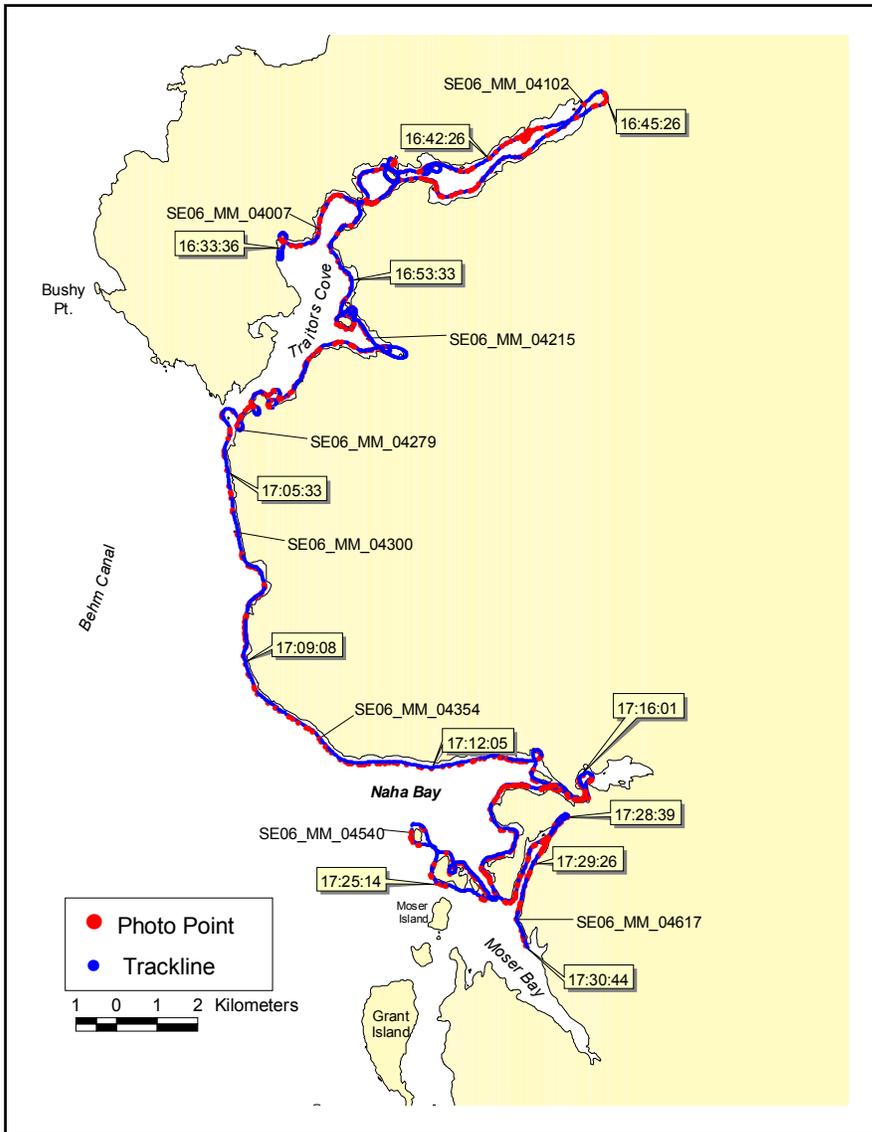


Figure 9. Location of Tape SE06_SL_09, 27 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_09 **Date:** 27 May 06

General Location: Traitor's Cove, East Side Behm Canal, Naha Bay

Time Start (UTC): 16:32:59 **Geo:** Borecky
Time End (UTC): 17:30:48 **Bio:** Morris
Tape Length: 57:49 **Nav:** Anderson

Weather: Sunny, bright filming conditions

Time (UTC)	Location	Photo
16:33:36	N. side Traitors Cove	SE06_MM_03993
16:45:26	Head of Traitors Cove (lagoon area)	SE06_MM_04099
16:51:12	Rapids at Traitors Cove (exiting)	SE06_MM_04156
16:58:19	Margaret River (south side Traitors Cove)	SE06_MM_04221
17:07:13	Francis Cove, Behm Canal	SE06_MM_04310
17:14:20	Loring, Naha Bay	SE06_MM_04405
17:22:07	Cedar Island	SE06_MM_04524
17:30:44	Moser Bay	SE06_MM_4623

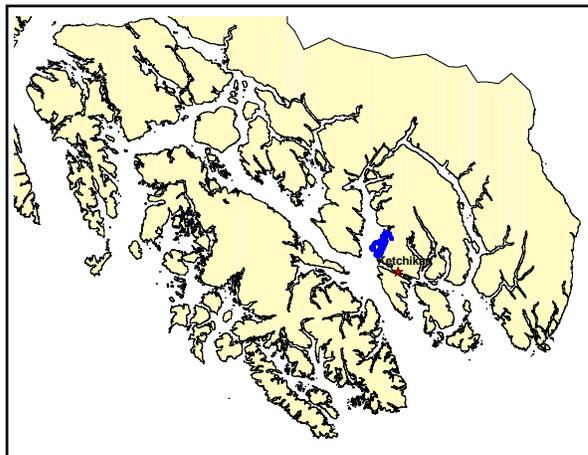
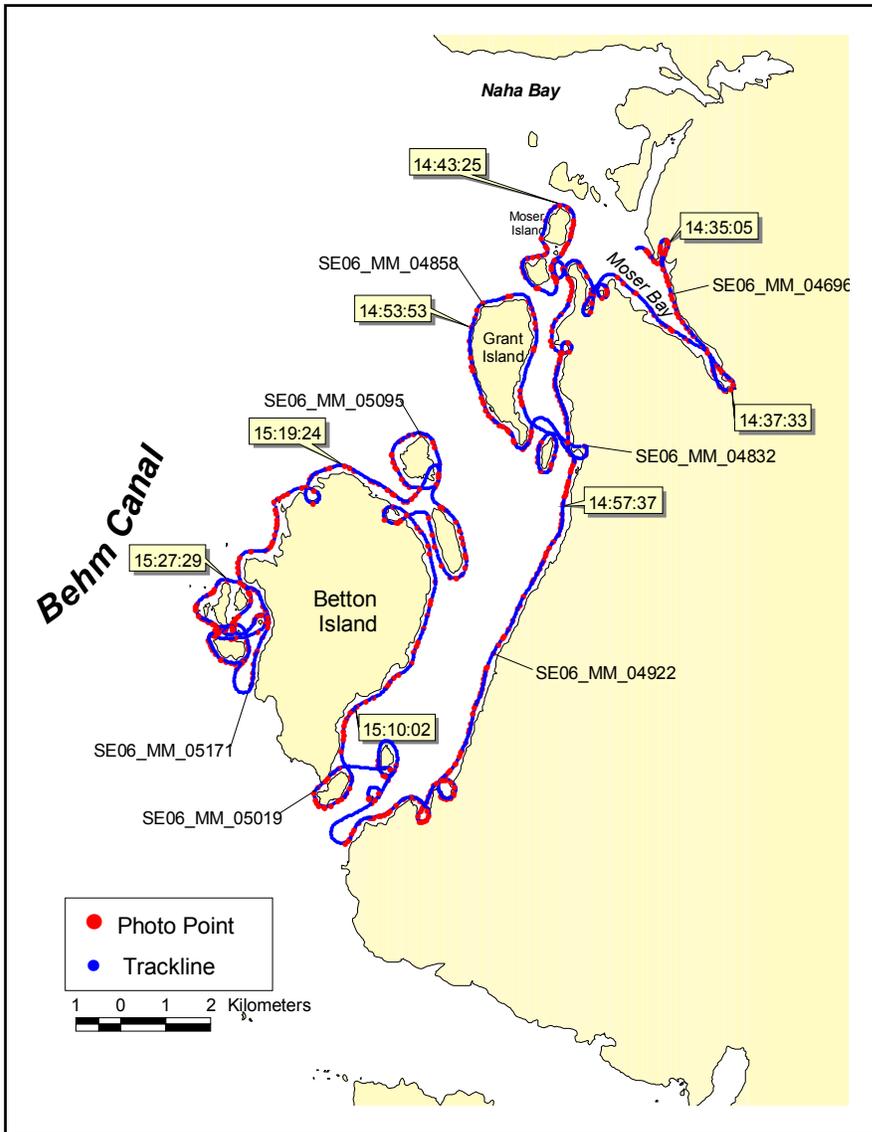
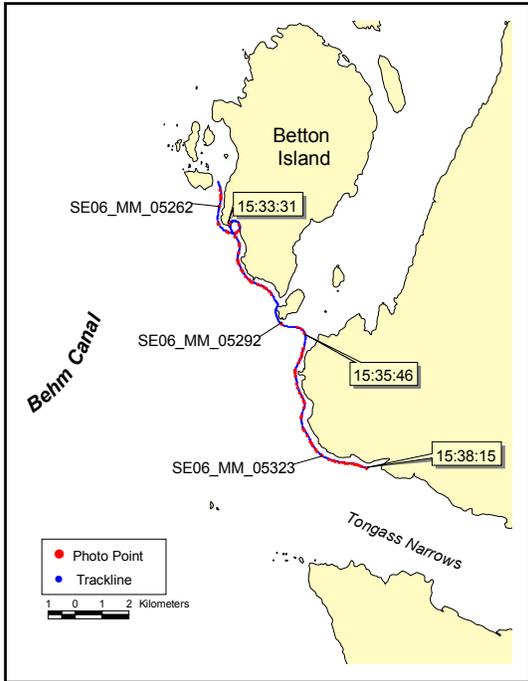
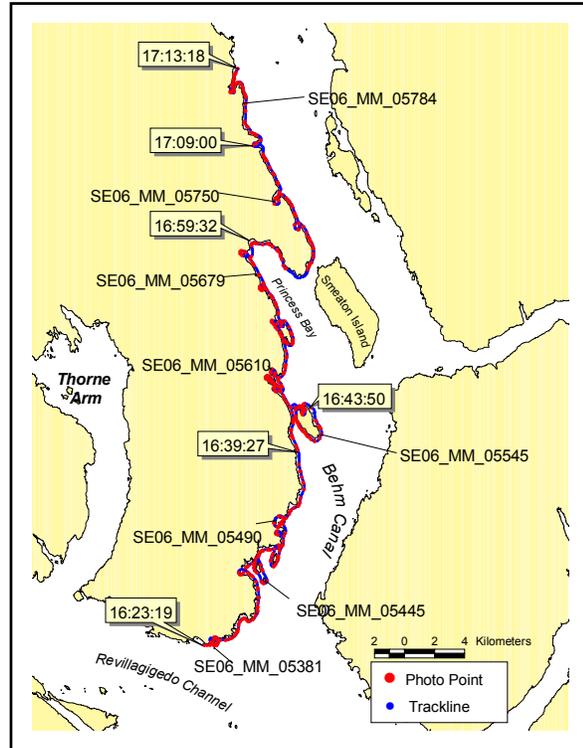


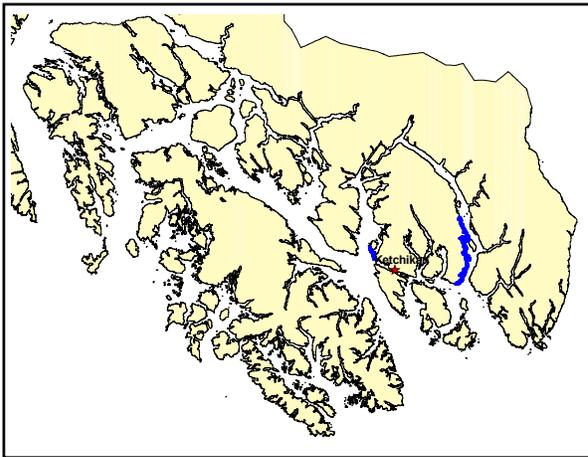
Figure 10. Location of Tape SE06_SL_10, 28 May 2006.



11a



11b



Figures 11a and 11b. Location of Tape SE06_SL_11, 28 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_11A & B **Date:** 28 May 06

General Location: A:Tatoosh Islands, Clover Passage, Survey Pt.
B: Pt. Alva , Princess Bay, Ella Bay
(Behm Canal)

A:Time Start (UTC): 15:32:12
Fuel Break and Transit 15:38:16 to 16:23:16
B: Time End (UTC) 17:13:19
Tape Length: 56:08

Geo: Borecky
Bio: Morris
Nav: Anderson

Weather: Drizzle, Low overcast

Time (UTC)	Location	Photo
15:32:20	W. side Betton Island	SE06 MM 05258
15:37:12	Survey Point	SE06 MM 05315
	Fuel Break and Transit 15:38:16 to 16:23:16	
16:24:23	Pt. Alava	SE06 MM 05383
16:42:38	S. end Rudyard Island	SE06 MM 05443
16:59:40	Head of Princess Bay	SE06 MM 05695
17:12:14	Head of Ella Bay	SE06 MM 05796

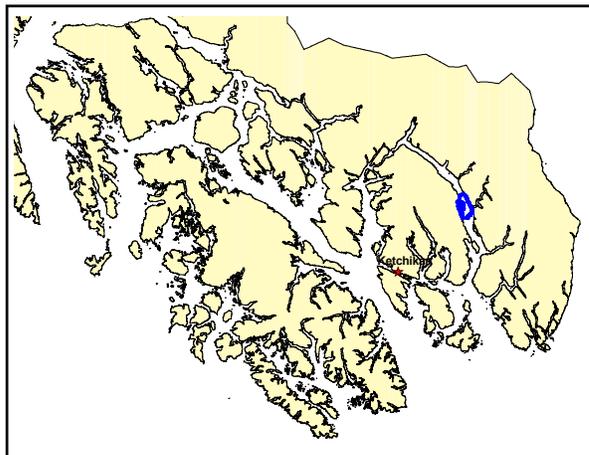
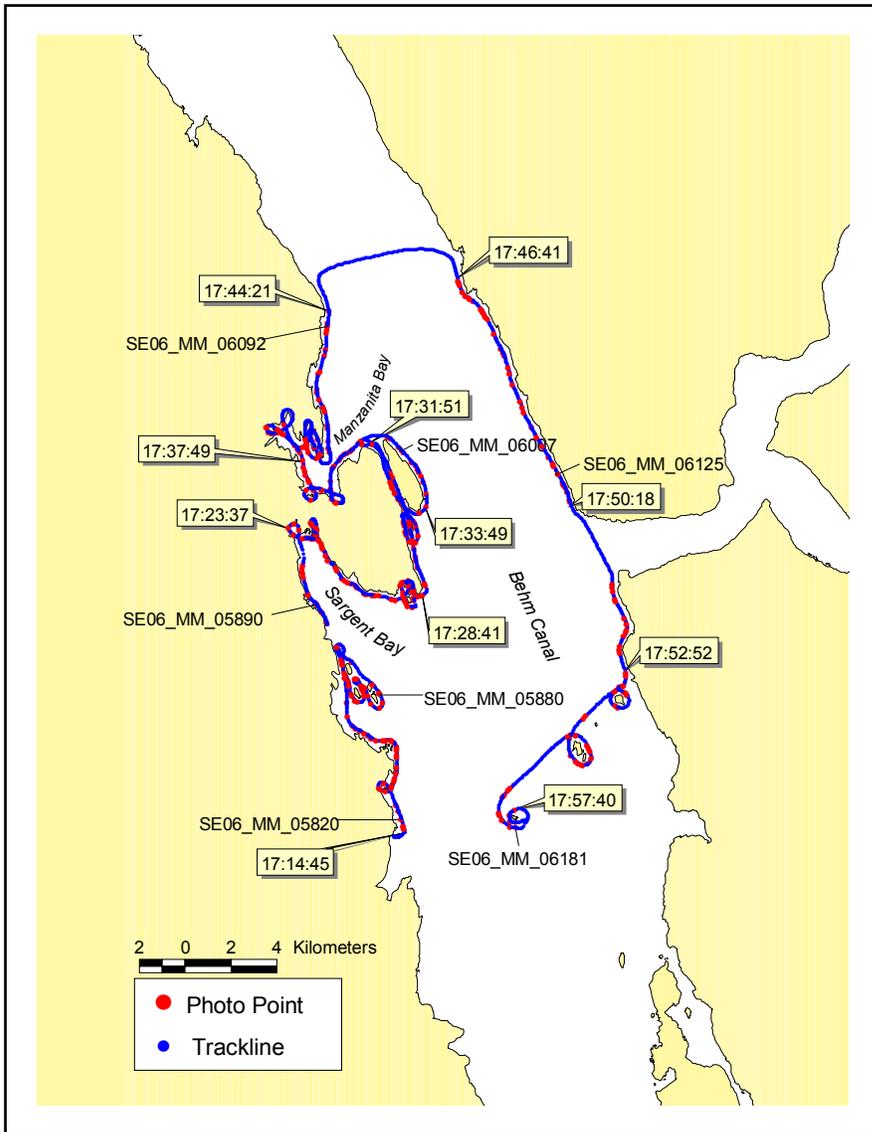


Figure 12. Location of Tape SE06_SL_12, 28 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_12 **Date:** 28 May 06

General Location: Sargent Bay, Manzanita Bay, New Eddystone Islands

Time Start (UTC): 17:14:26 **Geo:** Borecky
Time End (UTC): 17:58:11 **Bio:** Morris
Tape Length: 45:45 **Nav:** Anderson

Weather: Drizzle, Low overcast

Time (UTC)	Location	Photo
17:14:45	Ella Bay, W. side of eastern Behm Canal	SE06_MM_05817
17:23:30	Head of Sargent Bay	SE06_MM_05889
17:34:07	E. side Manzanita Island	SE06_MM_06001
17:37:11	Manzanita Bay	SE06_MM_06031
17:44:21	Behem Canal...west side	SE06_MM_06094
17:50:18	Behm Canal, east side near Rudyerd Bay	SE06_MM_06131
17:57:40	New Eddystone Rock	SE06_MM_06188

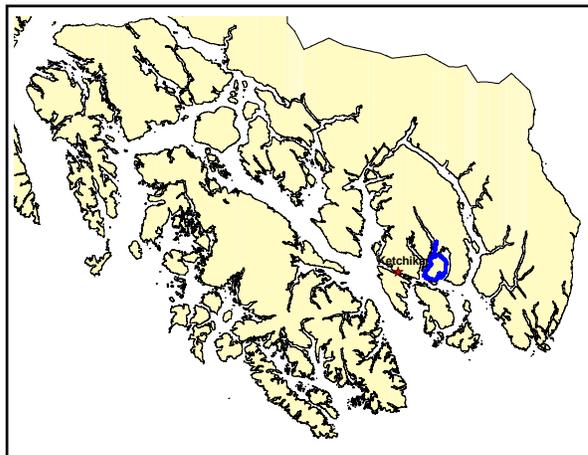
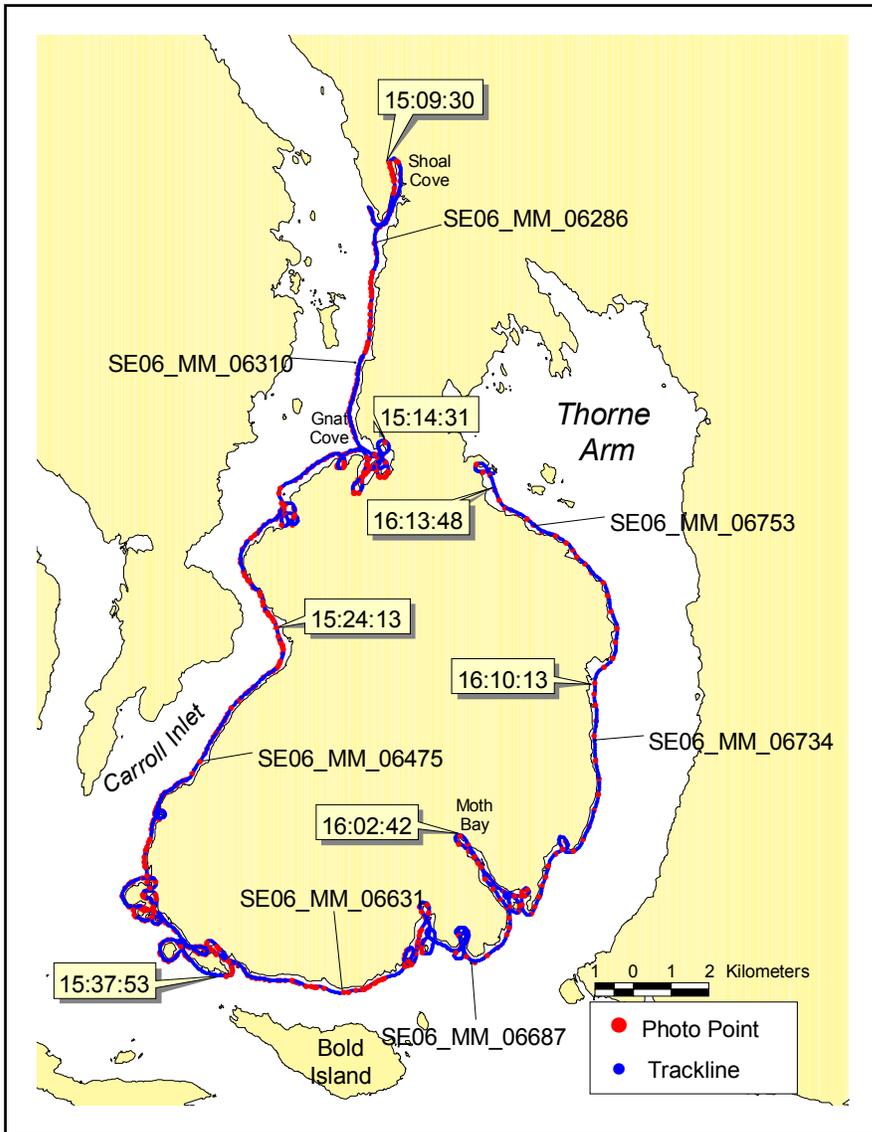


Figure 13. Location of Tape SE06_SL_13, 29 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_13 **Date:** 29 May 06

General Location: East Side Carroll Inlet, Revillagigedo Channel, W. side Thorne Arm

Time Start (UTC):	15:07:43	Geo:	Borecky
Technical Break	15:48:24 to 15:58:14	Bio:	Morris
Time End (UTC):	16:14:43	Nav:	Anderson
Tape Length:	57:10		

Weather: High overcast, light winds

Time (UTC)	Location	Photo
15:09:21	Shoal Cove, Carroll Inlet	SE06_MM_06270
15:14:31	Gnat Cove, Carroll Inlet	SE06_MM_06335
15:22:55	Brunn Point, Carroll Inlet	SE06_MM_06423
15:30:41	Carroll Point	SE06_MM_06523
	Technical Break, Camera 15:48:24 to 15:58	
15:44:23	Head of Coho Cove	SE06_MM_06665
16:02:42	Head of Moth Bay	SE06_MM_06700
16:10:30	Eve Point, W. Side Thorne Arm	SE06_MM_06739
16:14:33	W. side of Thorne Arm, immediately west of Snipe Island	SE06_MM_06762

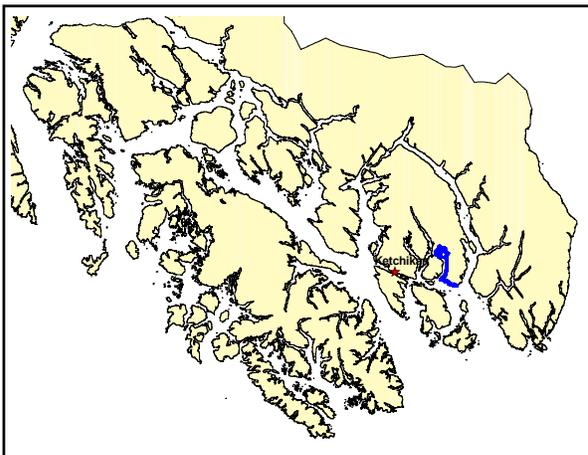
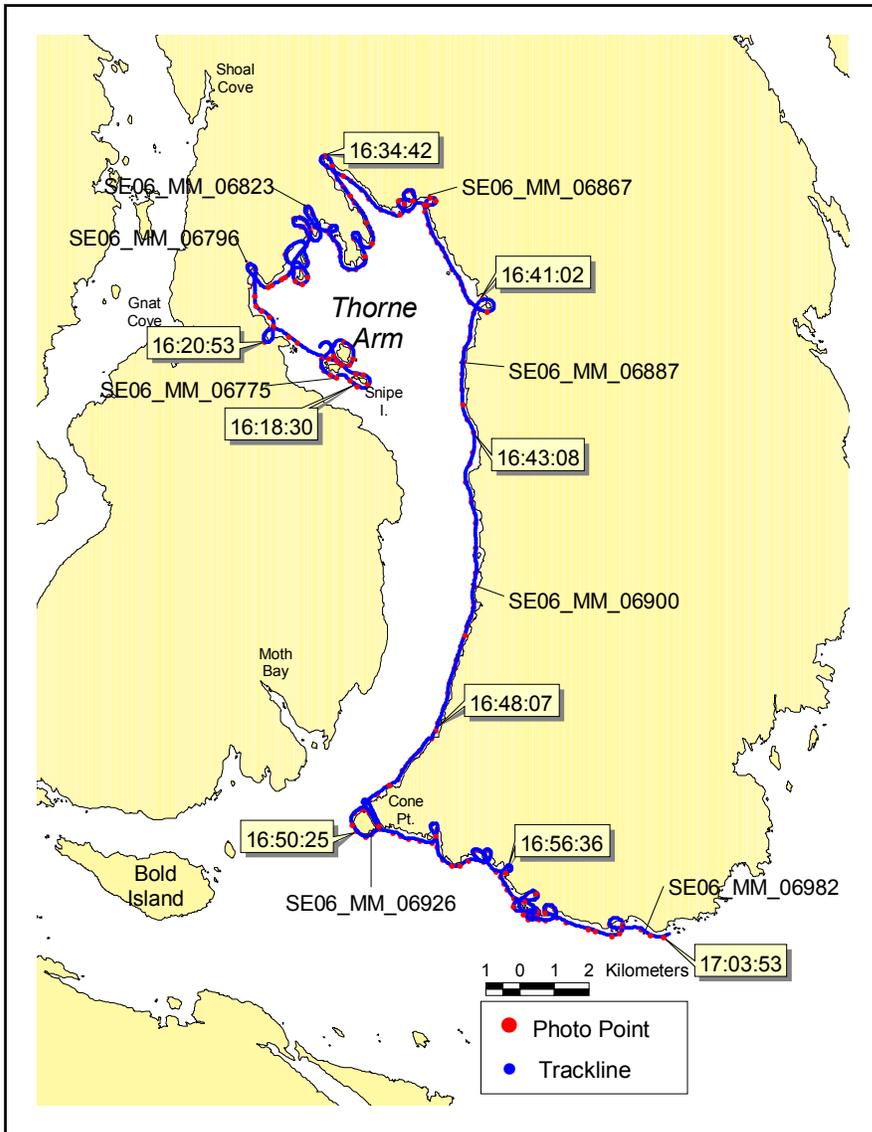


Figure 14. Location of Tape SE06_SL_14, 29 May 2006.

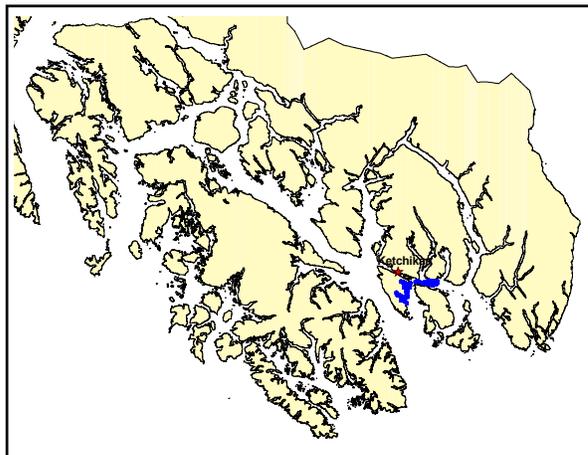
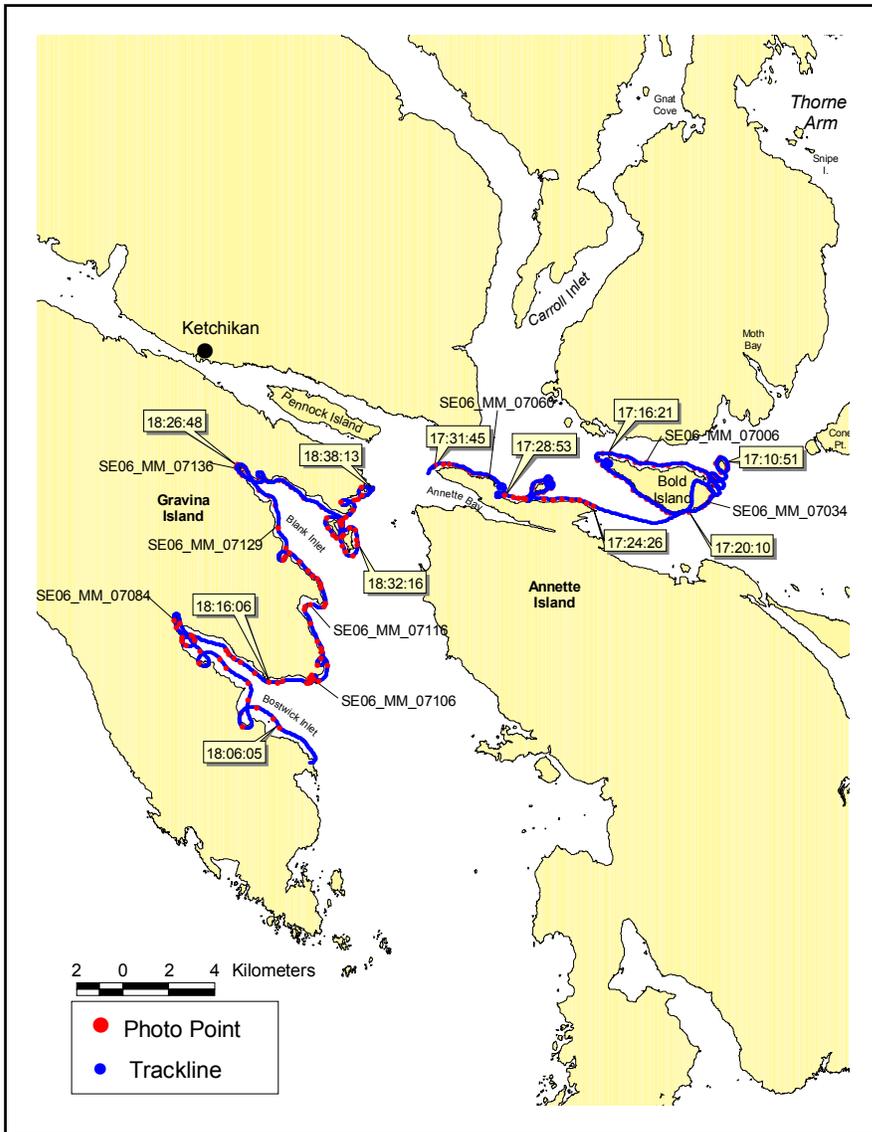


Figure 15. Location of Tape SE06_SL_15, 29 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_15 **Date:** 29 May 06

General Location: Bold Island, Annette Island-Reef Pt. to Race Pt., Gravina Island- Bostwick Inlet to Blank Inlet.

Time Start (UTC):	17:10:28	Geo:	Borecky
Fuel Break:	17:32:00 to 18:04:25	Bio:	Morris
Time End (UTC):	18:38:16	Nav:	Anderson
Tape Length:	57:18		

Weather: High overcast, light winds

Time (UTC)	Location	Photo
17:11:05	Round Island	SE06 MM 06988
17:19:12	S. side of Bold Island	SE06 MM 07024
17:24:26	Reef Pt., Annette Island	SE06 MM 07037
17:31:45	Race Pt., Annette Island	SE06 MM 07068
	Fuel Break 17:32:00 to 18:04:25	
18:06:05	S. entrance to Bostwick Inlet, Gravina Bay	SE06 MM 07072
18:18:54	Bostwick Pt.	SE06 MM 07107
18:26:48	Head of Blank Inlet (Big fish trap on flats)	SE06 MM 07135
18:36:21	Black Sand Cove	SE06 MM 07166

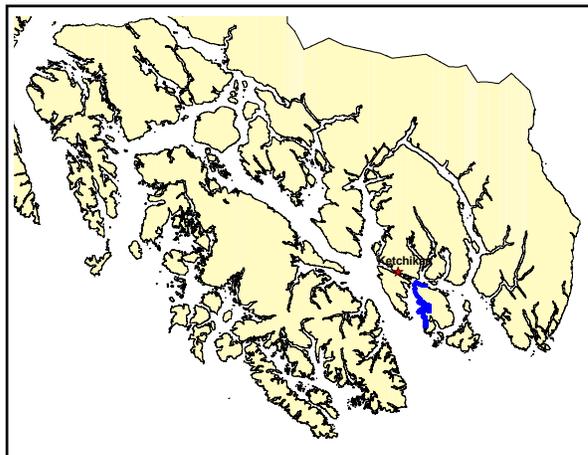
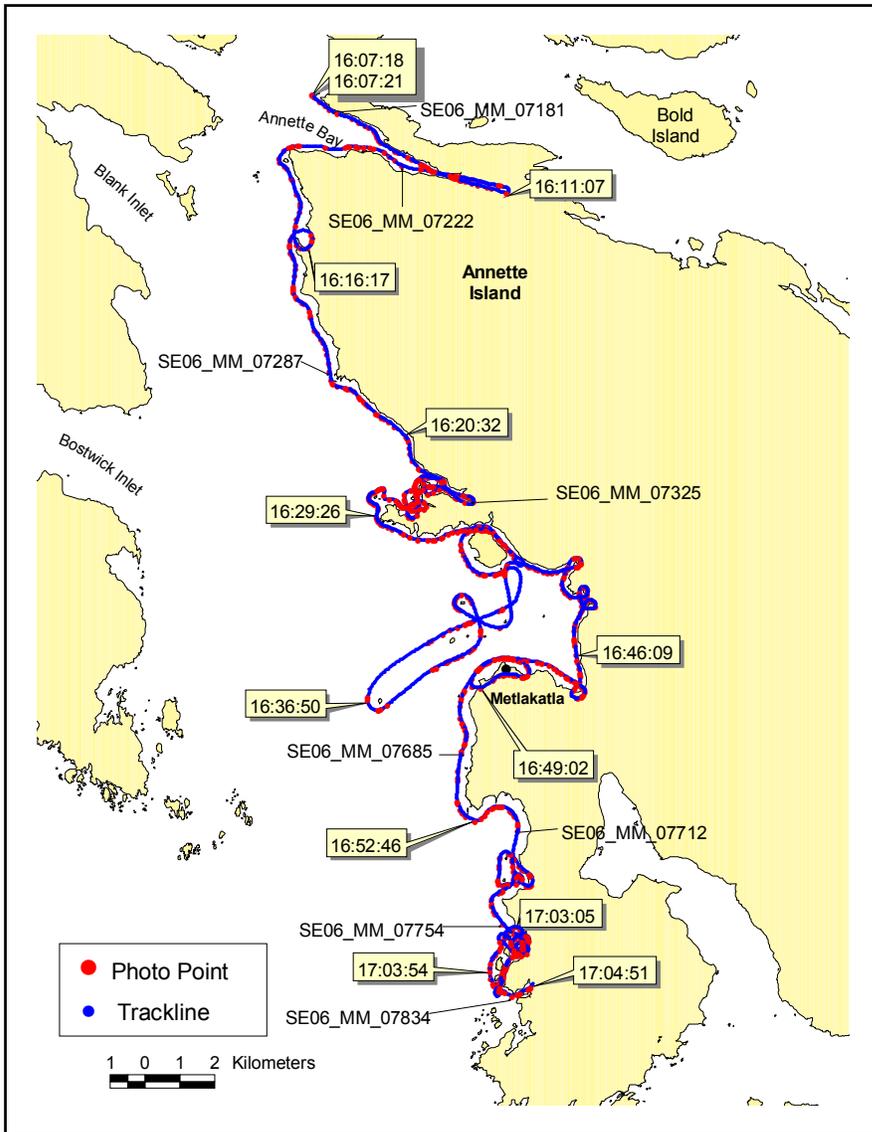


Figure 16. Location of Tape SE06_SL_16, 30 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_16 **Date:** 30 May 06

General Location: Annette Island- Sharp Point, Metlakatla to Canoe Cove

Time Start (UTC): 16:07:18 **Geo:** Borecky
Time End (UTC): 17:04:51 **Bio:** Morris
Tape Length: 57:09 **Nav:** Anderson

Weather: Rainy, windy.

Time (UTC)	Location	Photo
16:07:18	Race Point, Head of Annette Bay	SE06_MM_07176
16:11:07	Head of Annette Bay	SE06_MM_07212
16:16:48	Bailey Rock	SE06_MM_07259
16:22:07	Head of Sylburn Harbor	SE06_MM_07325
16:34:07	Hemlock Island	SE06_MM_07481
16:42:11	Copper Point	SE06_MM_07542
16:49:52	Metlakatla	SE06_MM_07654
16:52:52	Cedar Point	SE06_MM_07697
17:04:51	Just north of Canoe Cove, east of Hid Reef	SE06_MM_07840

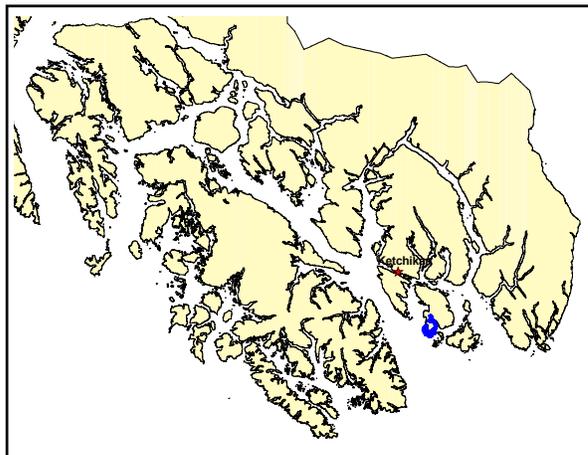
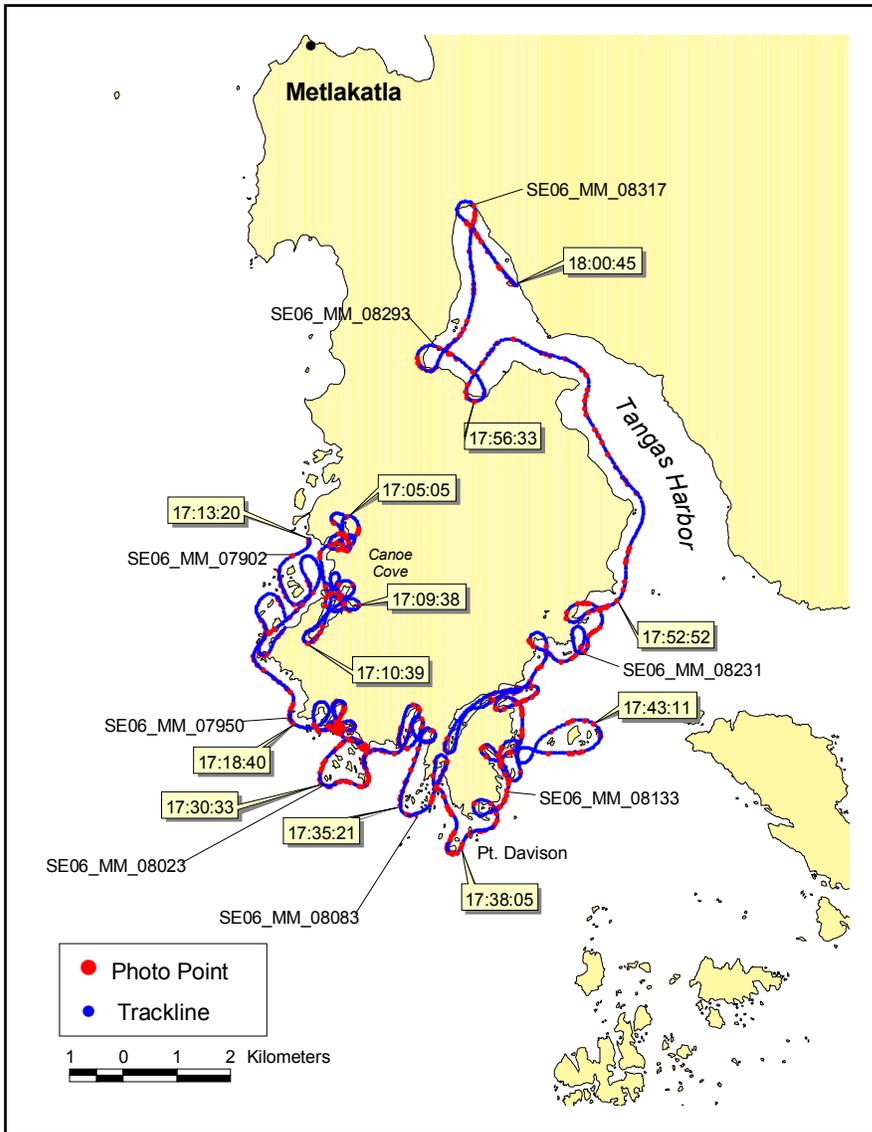


Figure 17. Location of Tape SE06_SL_17, 30 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_17 **Date:** 30 May 06

General Location: Annette Island- Canoe Cove, Point Davis, Tamgas Harbor

Time Start (UTC):	17:05:05	Geo:	Borecky
Pilot Pit Stop	17:21:23 to 17:26:48	Bio:	Morris
Time End (UTC):	18:00:45	Nav:	Anderson
Tape Length:	50:20		

Weather: Rainy, windy.

Time (UTC)	Location	Photo
17:05:05	North Canoe Cove	SE06_MM_07843
17:10:39	South Canoe Cove	SE06_MM_07883
17:19:54	Two inlets north of Pt. Davis	SE06_MM_07956
	Filming Break- 17:21:23 to 17:26:48	
17:37:19	Pt. Davis	SE06_MM_08101
17:50:13	Moss Pt.	SE06_MM_08229
17:59:20	Head of Tamgas Harbor	SE06_MM_08317

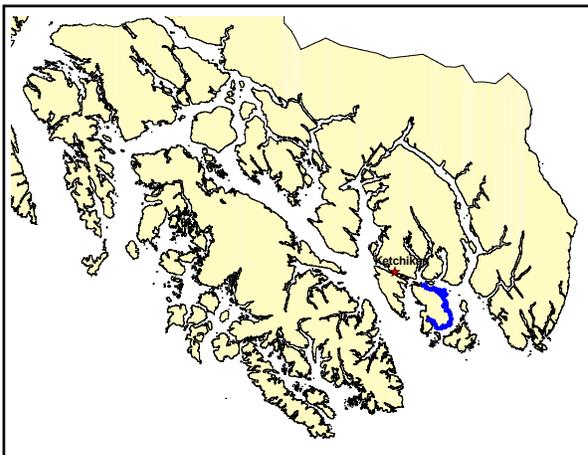
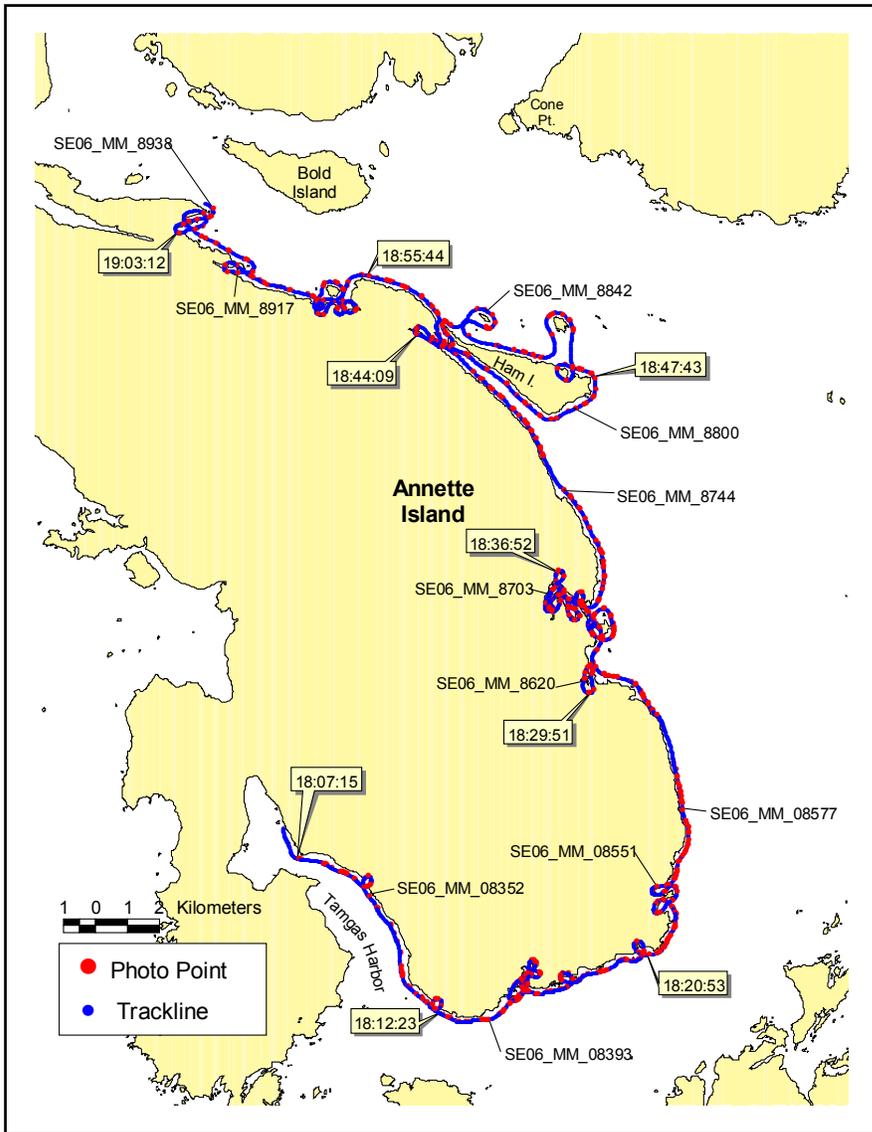


Figure 18. Location of Tape SE06_SL_18, 30 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_18 **Date:** 30 May 06

General Location: East Side Annette Island- Tamgas Harbor, Crab Bay, Ham Island, Nadzaheen Cove

Time Start (UTC): 18:07:15 **Geo:** Borecky
Time End (UTC): 19:04:43 **Bio:** Morris
Tape Length: 57:58 **Nav:** Anderson

Weather: Rainy, windy.

Time (UTC)	Location	Photo
18:07:15	NE side of Tamgas Harbor	SE06 MM 08331
18:12:47	Survey Pt.	SE06 MM 08387
18:21:11	Annette Pt.	SE06 MM 08514
18:29:23	Kwain Bay	SE06 MM 08621
18:34:52	Crab Bay Estuary	SE06 MM 08690
18:46:43	Ham Island, SW side	SE06 MM 08797
18:55:50	Harbor Point	SE06 MM 08870
19:01:16	Nadzaheen Cove	SE06 MM 08915

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Sand Lance**

Tape: SE06_SL_18 **Date:** 30 May 06

General Location: East Side Annette Island- Tamgas Harbor, Crab Bay, Ham Island,
Nadzaheen Cove

Time Start (UTC): 18:07:15 **Geo:** Borecky
Time End (UTC): 19:04:43 **Bio:** Morris
Tape Length: 57:58 **Nav:** Anderson

Weather: Rainy, windy.

Time (UTC)	Location	Photo
18:07:15	NE side of Tamgas Harbor	SE06 MM 08331
18:12:47	Survey Pt.	SE06 MM 08387
18:21:11	Annette Pt.	SE06 MM 08514
18:29:23	Kwain Bay	SE06 MM 08621
18:34:52	Crab Bay Estuary	SE06 MM 08690
18:46:43	Ham Island, SW side	SE06 MM 08797
18:55:50	Harbor Point	SE06 MM 08870
19:01:16	Nadzaheen Cove	SE06 MM 08915

Section 2: Team Georgia Lee

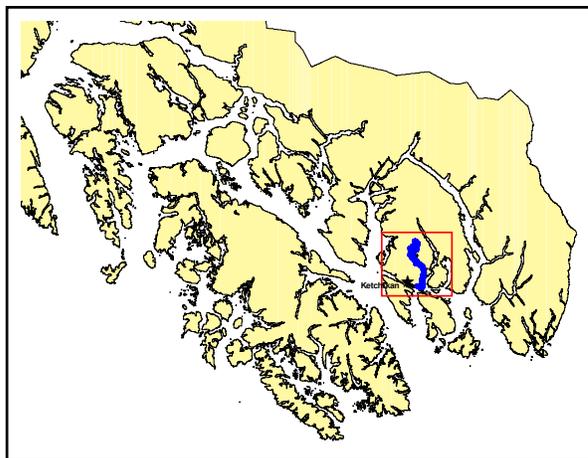
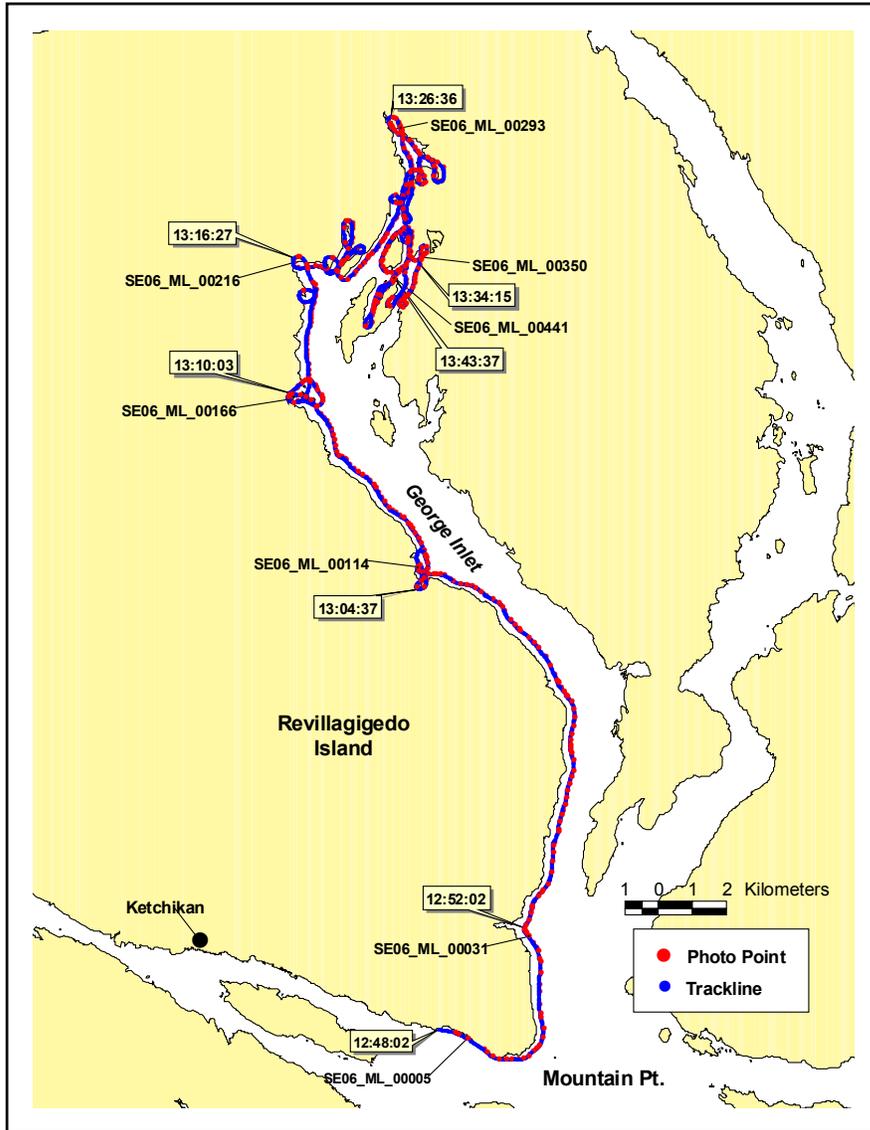


Figure 19. Location of Tape SE06_GL_01, 25 May 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_01 **Date:** 25 May 06

General Location: Mountain Point, East George Inlet

Time Start (UTC): 12:48:02 **Geo:** Harney
Time End (UTC): 13:43:37 **Bio:** Lindeberg
Tape Length: 55:35 **Nav:** Morrow

Weather: Rain, occasionally heavy

Time (UTC)	Location	Photo
12:48:02	West of Mountain Point	SE06 ML 00003
12:52:52	Herring Bay	SE06 ML 00035
13:10:03	White River	SE06 ML 00162
13:16:27	Leask Cove	SE06 ML 00213
13:34:15	Tsa Cove	SE06 ML 00348
13:43:37	Bull Island	SE06 ML 00441

Rendezvous evening and overnight with Georgia Lee

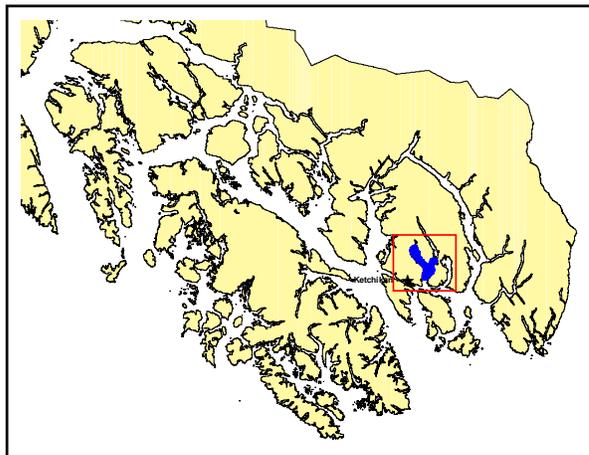
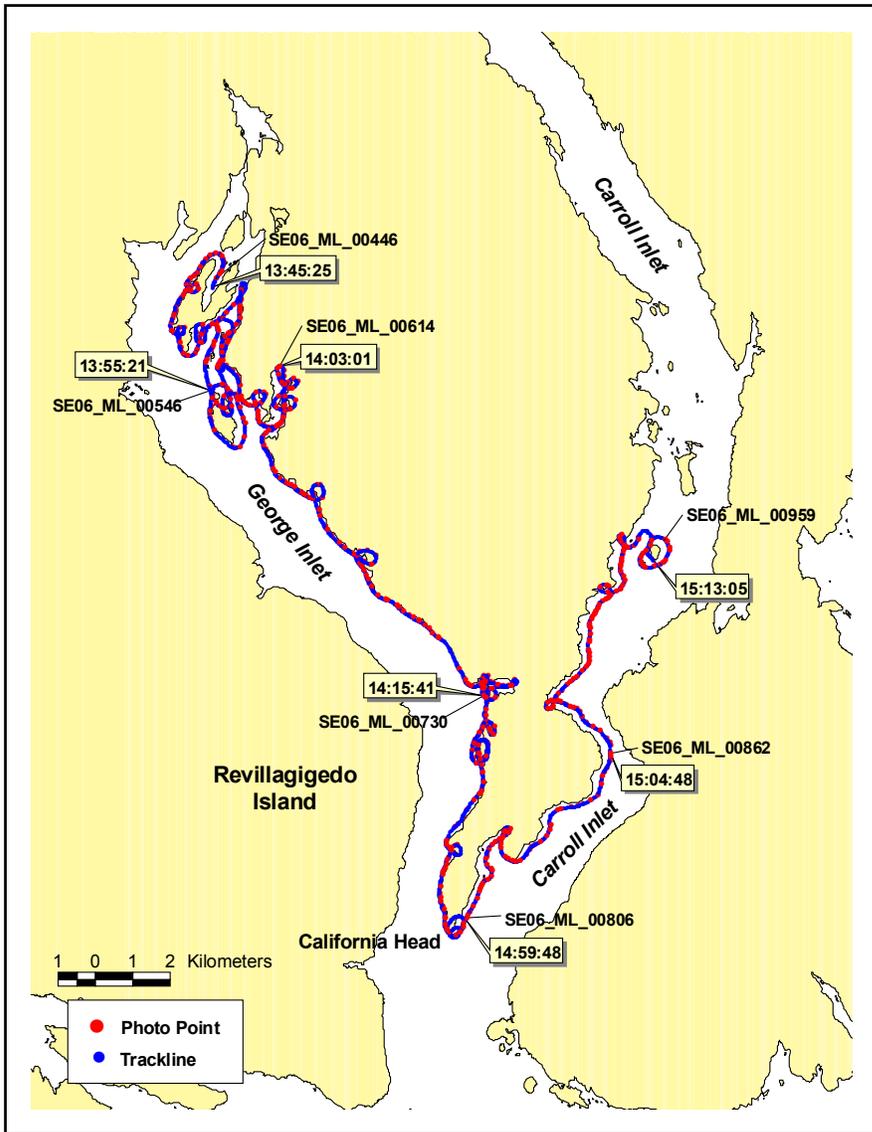


Figure 20. Location of Tape SE06_GL_02, 25 May 06

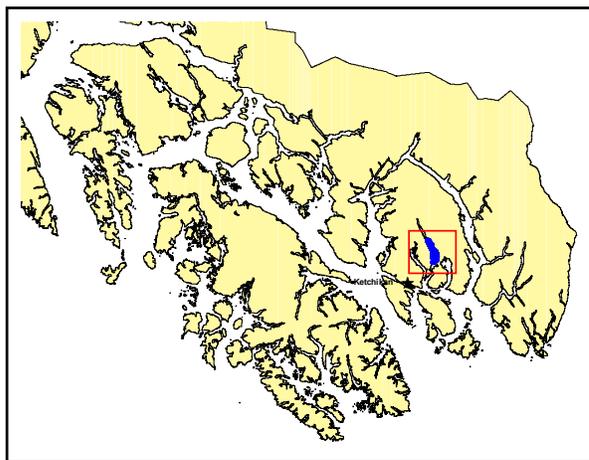
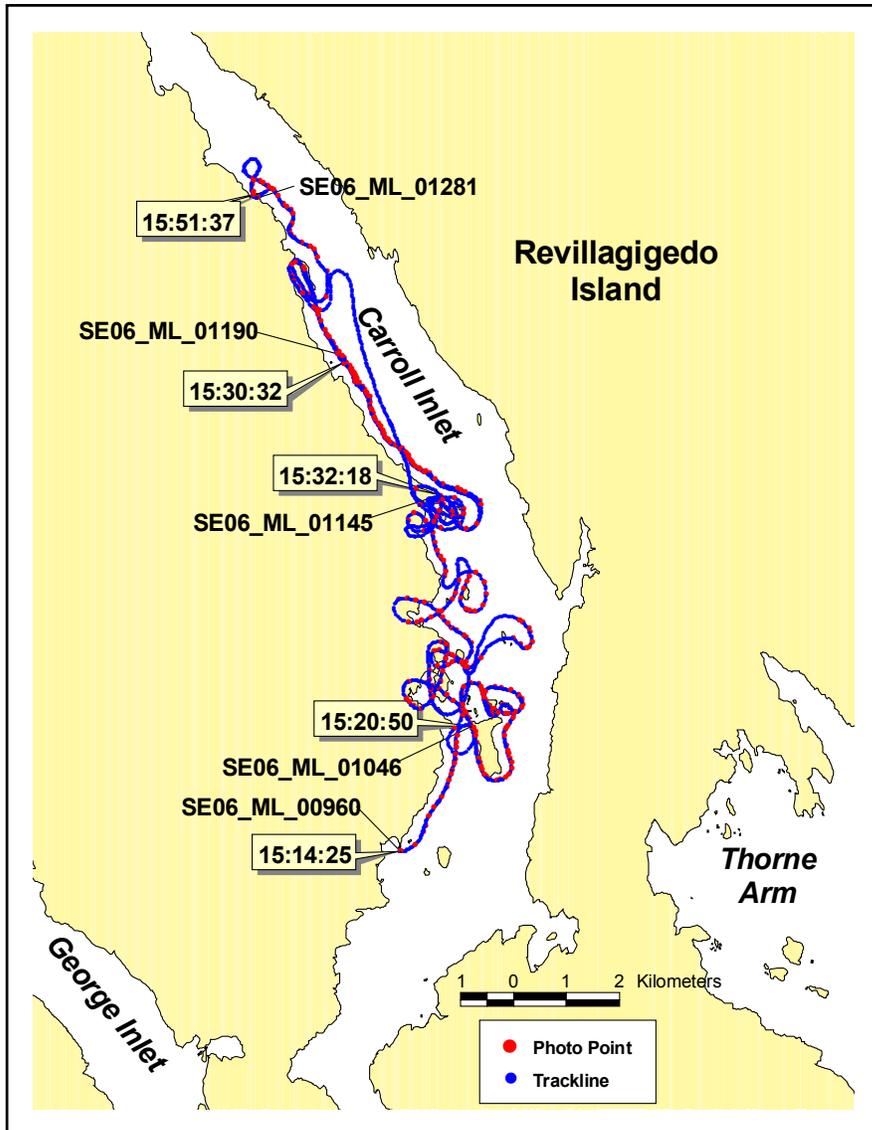


Figure 21. Location of Tape SE06_GL_03, 25 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_03 **Date:** 25 May 06

General Location: West Carroll Inlet, Osten Island, Island Point

Time Start (UTC): 15:14:25 **Geo:** Harney
Time End (UTC): 15:51:37 **Bio:** Lindeberg
Tape Length: 37:12 **Nav:** Morrow

Weather: Rain, occasionally heavy

Time (UTC)	Location	Photo
15:14:25	West side Carroll Inlet, opposite Hume Island	SE06 ML 00960
15:20:50	Osten Island	SE06 ML 01046
15:32:18	Island Point	SE06 ML 01145
15:51:37	West side Carroll Inlet, Gunsight Creek	SE06 ML 01281

Rendezvous evening and overnight with Georgia Lee

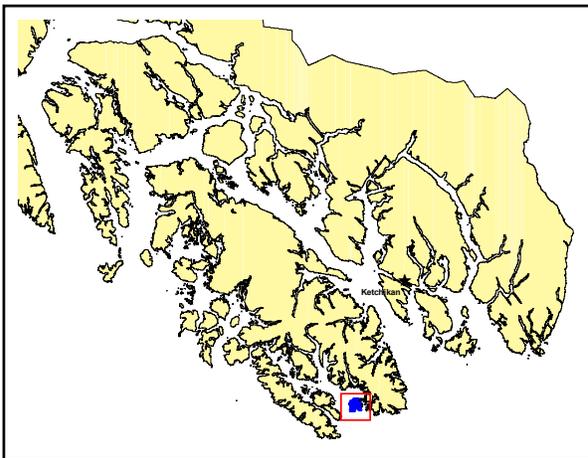
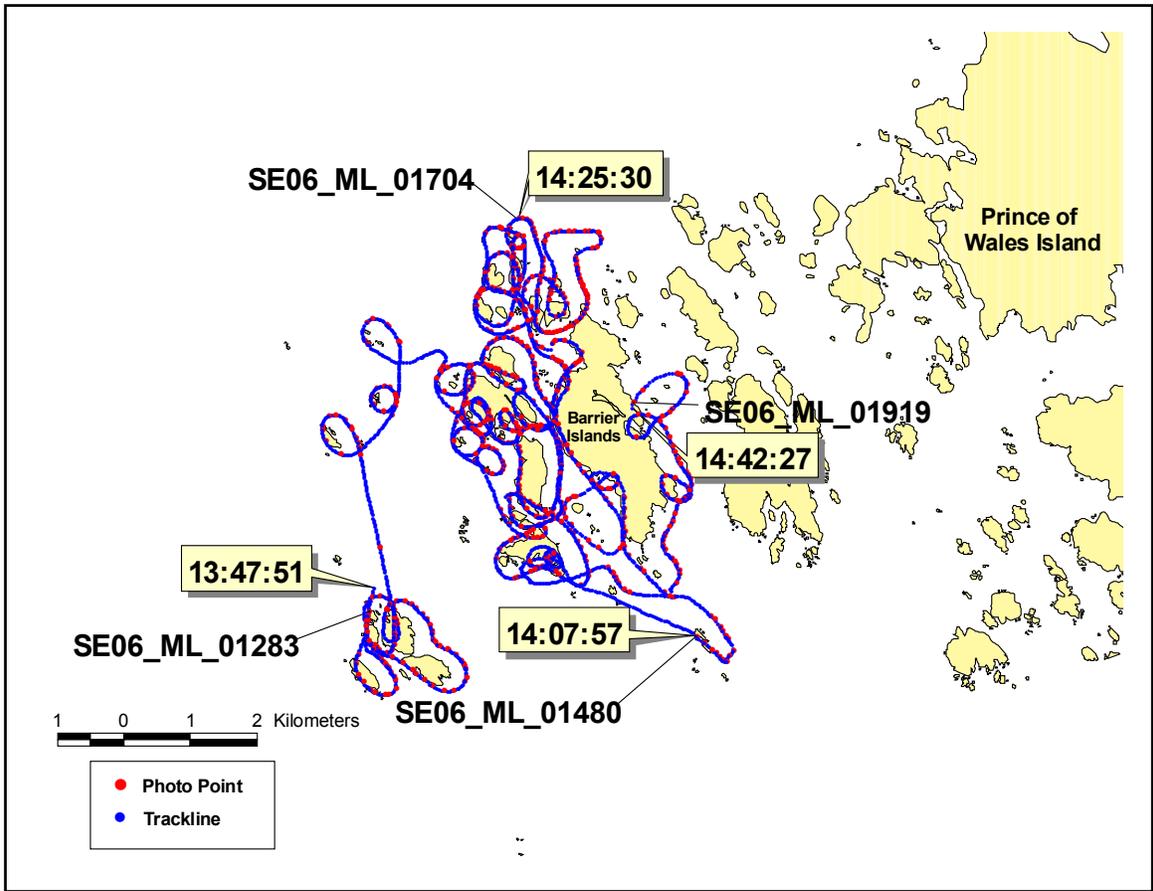


Figure 22. Location of Tape SE06_GL_04, 26 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_04 **Date:** 26 May 06

General Location: Barrier Islands (SW Prince of Wales Island)

Time Start (UTC): 13:47:51 **Geo:** Harney
Time End (UTC): 14:42:27 **Bio:** Lindeberg
Tape Length: 54:36 **Nav:** Morrow

Weather: Heavy fog early morning, prevented flight until 40minutes into tide window; northerly wind, turbulence; good water visibility so flew 10 minutes past closing tide window; variable lighting through morning (sunny and shaded), occasionally making imagery collection difficult.

Time (UTC)	Location	Photo
13:47:51	Round Islands, Barrier Island Group	SE06 ML 01283
14:07:57	Black Rock, Barrier Island Group	SE06 ML 01480
14:25:30	Poe Island, Barrier Island Group	SE06 ML 01704
14:42:27	Center of the Barrier Island Group	SE06 ML 01919

Crew based on and stayed overnight on the Georgia Lee

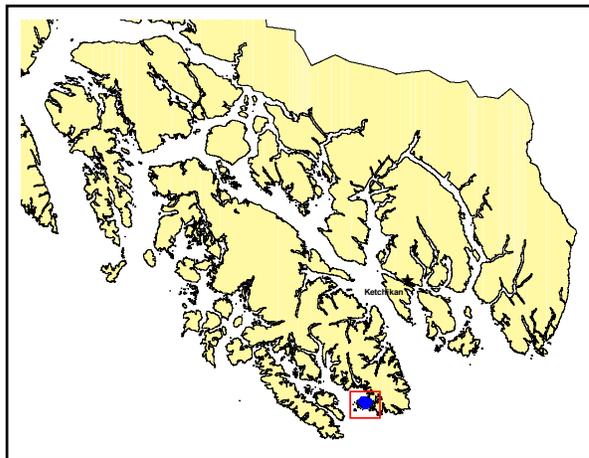
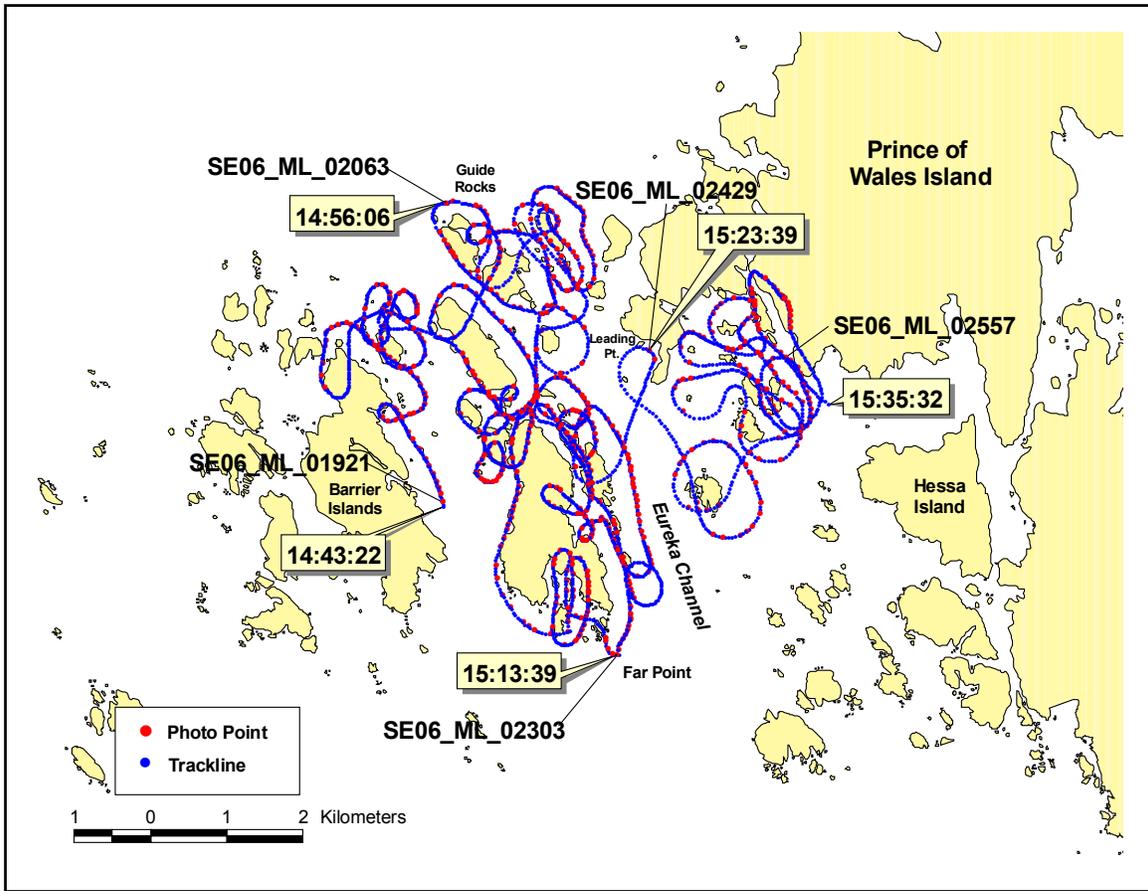


Figure 23. Location of Tape SE06_GL_05, 26 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_05 **Date:** 26 May 06

General Location: Barrier Islands (SW Prince of Wales Island)

Time Start (UTC): 14:43:22 **Geo:** Harney
Time End (UTC): 15:35:32 **Bio:** Lindeberg
Tape Length: 52:10 **Nav:** Morrow

Weather: Heavy fog early morning, prevented flight until 40minutes into tide window; northerly wind, turbulence; good water visibility so flew 10 minutes past closing tide window; variable lighting through morning (sunny and shaded), occasionally making imagery collection difficult.

Time (UTC)	Location	Photo
14:43:22	Center of the Barrier Island Group	SE06 ML 01921
14:56:06	Guide Rocks, Barrier Island Group	SE06 ML 02063
15:13:39	Far Point, Barrier Island Group	SE06 ML 02303
15:23:39	Slightly south of Leading Point	SE06 ML 02429
15:35:32	SW Prince of Wales Island, immediately north of Hessa Island	SE06 ML 02557

Crew based on and stayed overnight on the Georgia Lee

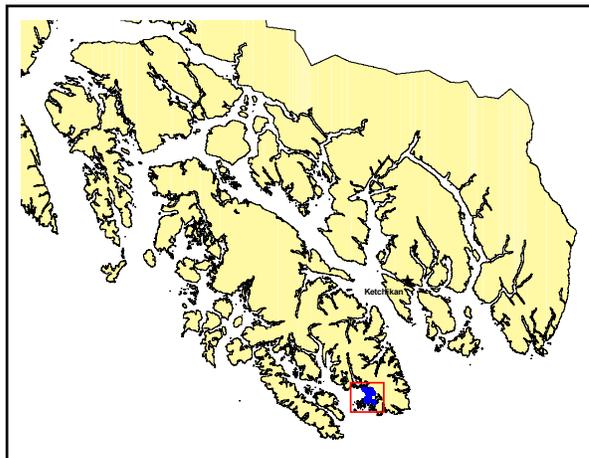
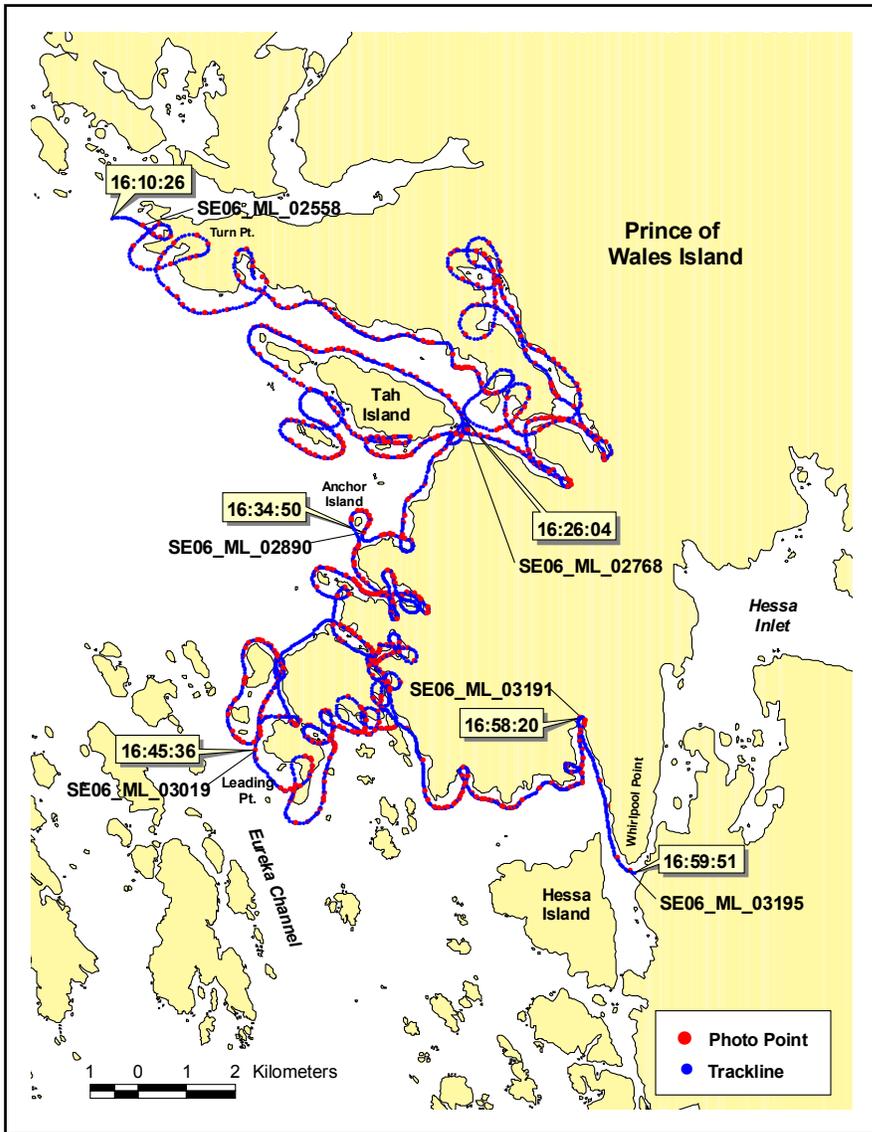


Figure 24. Location of Tape SE06_GL_06, 26 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_06 **Date:** 26 May 06

General Location: Tah Bay , Tah Island, Barrier Islands, Winter Bay
(SW Prince of Wales Island)

Time Start (UTC): 16:10:26 **Geo:** Harney
Time End (UTC): 16:59:51 **Bio:** Lindeberg
Tape Length: 49:25 **Nav:** Morrow

Weather: Heavy fog early morning, prevented flight until 40minutes into tide window; northerly wind, turbulence; good water visibility so flew 10 minutes past closing tide window; variable lighting through morning (sunny and shaded), occasionally making imagery collection difficult.

Time (UTC)	Location	Photo
16:10:26	Turn Point	SE06_ML_02558
16:26:04	Tah Island	SE06_ML_02768
16:34:50	Anchor Island	SE06_ML_02890
16:45:36	Leading Point, SW Prince of Wales Island	SE06_ML_03019
16:58:20	Winter Bay	SE06_ML_03191
16:59:51	Whirlpool point, entrance to Hessa Inlet	SE06_ML_03195

Crew based on and stayed overnight on the Georgia Lee

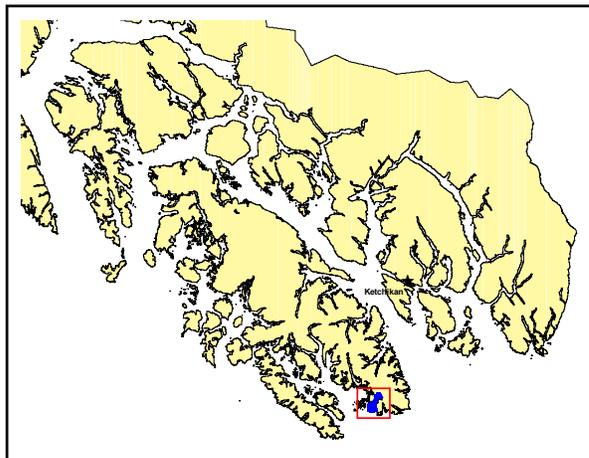
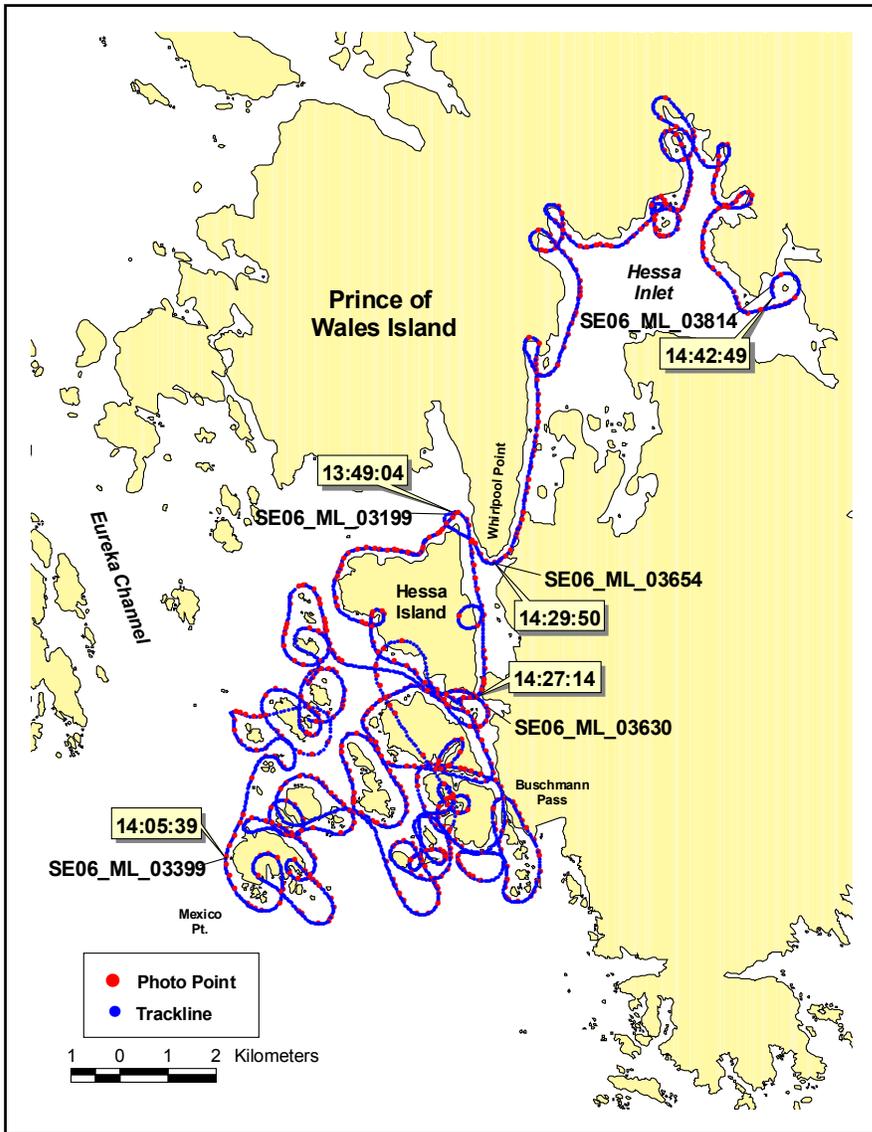


Figure 25. Location of Tape SE06_GL_07, 27 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_07 **Date:** 27 May 06

General Location: Hessa Island, Barrier Islands, Buschmann Pass, Hessa Narrows, Hessa Inlet

Time Start (UTC): 13:49:04 **Geo:** Harney
Time End (UTC): 14:42:49 **Bio:** Lindeberg
Tape Length: 53:45 **Nav:** Morrow

Weather: Low fog on southern end of Prince of Wales Island prevented flying continuously between Brownson Bay and Nichols Bay; also between Nichols Bay and Cape Chacon. Weather on the eastern side of Prince of Wales was clear, allowing imagery to be shot starting from Cape Chacon to the north.

Time (UTC)	Location	Photo
13:49:04	NE corner of Hessa Island	SE06 ML 03199
14:05:39	Mexico Point, Barrier Island Group	SE06 ML 03399
14:27:14	SE corner of Hessa Island	SE06 ML 03630
14:29:50	Whirlpool Point / Hessa Narrows, entrance to Hessa Inlet	SE06 ML 03654
14:42:49	East side of Hessa Inlet	SE06 ML 03814

Flights originated and refueled on the Georgia Lee but returned to Ketchikan for the night after completion of the day's surveys.

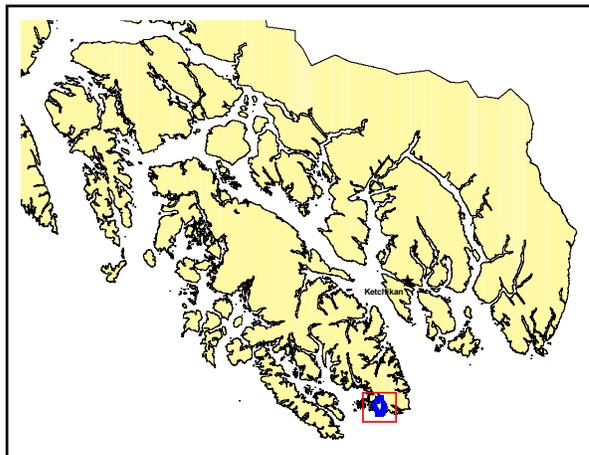
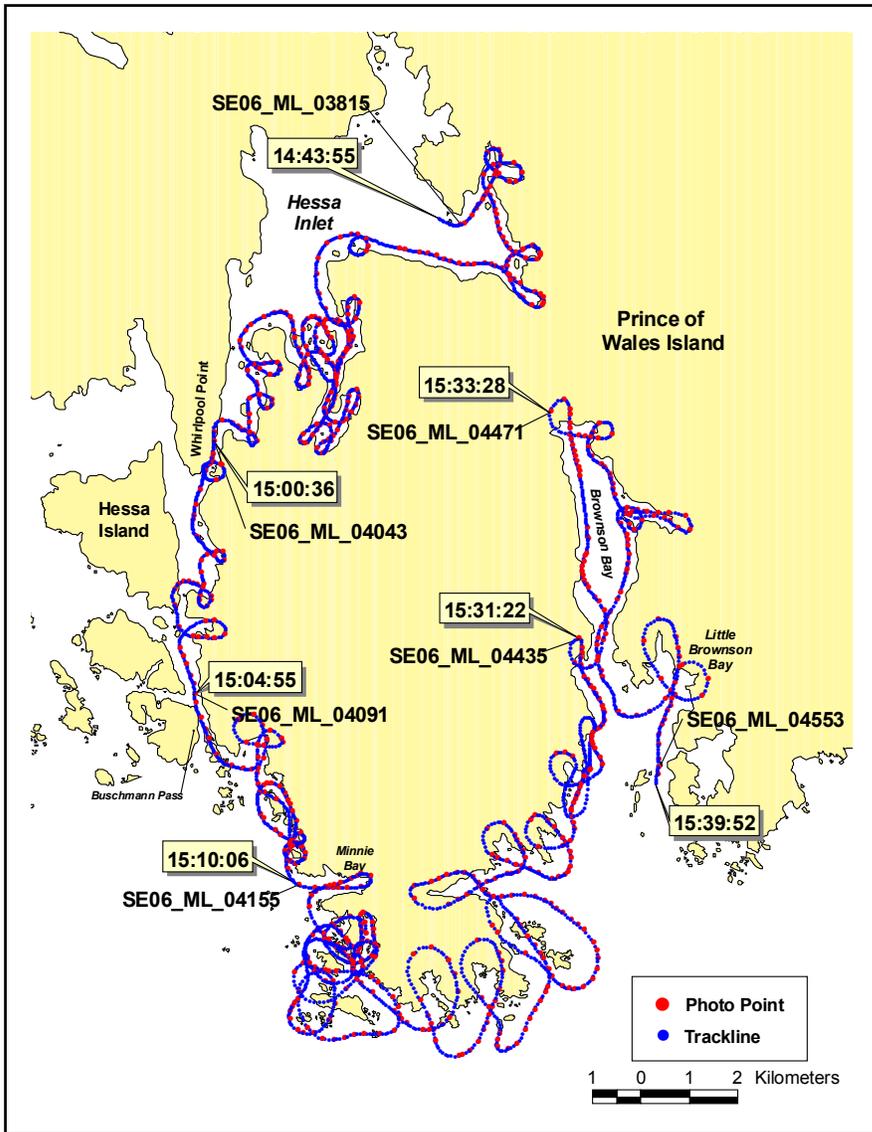


Figure 26. Location of Tape SE06_GL_08, 27 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_08 **Date:** 27 May 06

General Location: Hessa Inlet, Buschmanns Pass, Brownson Bay, Little Brownson Bay (South Prince of Wales Island)

Time Start (UTC): 14:43:55 **Geo:** Harney
Time End (UTC): 15:39:52 **Bio:** Lindeberg
Tape Length: 55:57 **Nav:** Morrow

Weather: Low fog on southern end of Prince of Wales Island prevented flying continuously between Brownson Bay and Nichols Bay; also between Nichols Bay and Cape Chacon. Weather on the eastern side of Prince of Wales was clear, allowing imagery to be shot starting from Cape Chacon to the north.

Time (UTC)	Location	Photo
14:43:55	East side of Hessa Inlet	SE06 ML 03815
15:00:36	Hessa Narrows, Whirlpool Point, entrance to Hessa Inlet	SE06 ML 04043
15:04:55	Buschmann Pass	SE06 ML 04091
15:10:06	Minnie Bay	SE06 ML 04155
15:31:22	Entrance to Brownson Bay	SE06 ML 04435
15:33:28	North end Brownson Bay	SE06 ML 04471
15:39:52	Slightly south of Little Brownson Bay	SE06 ML 04553

Flights originated and refueled on the Georgia Lee but returned to Ketchikan for the night after completion of the day's surveys.

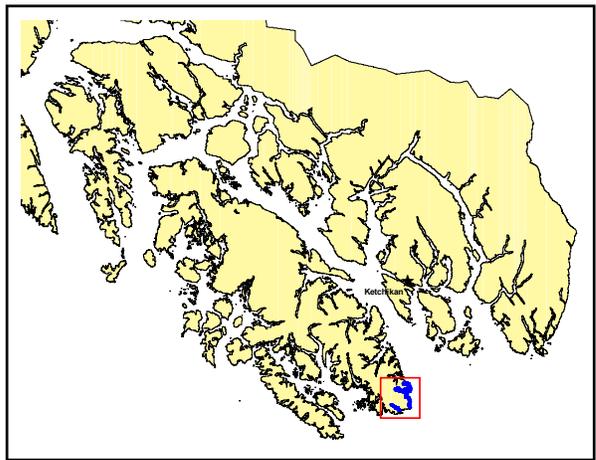
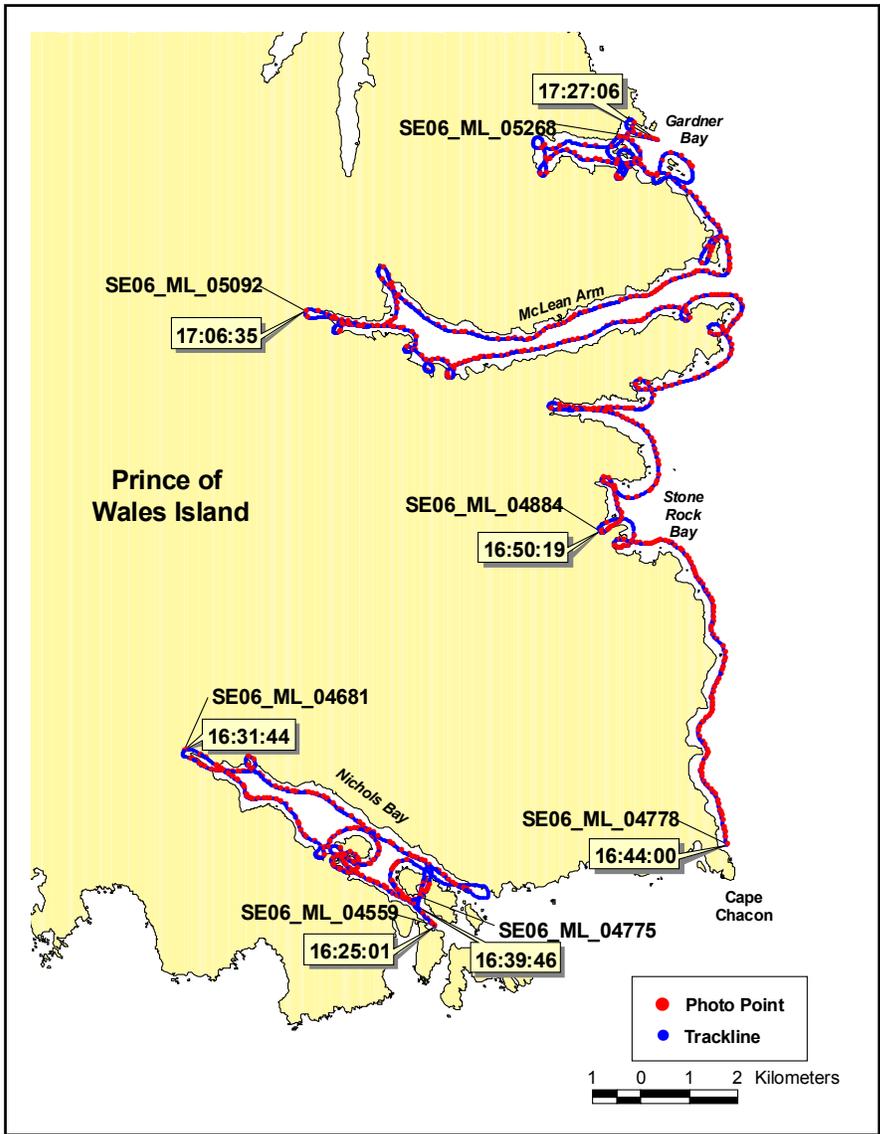


Figure 27. Location of Tape SE06_GL_09, 27 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_09 **Date:** 27 May 06

General Location: Nichols Bay, Cape Chacon, Stone Rock Bay, Maclean Arm, Gardner Bay (some gaps due to fog)
(SE corner of Prince of Wales Island)

Time Start (UTC): 16:25:01 **Geo:** Harney
Filming Break: 16:39:46 to 16:44:00 (due to fog) **Bio:** Lindeberg
Time End (UTC): 17:27:05 **Nav:** Morrow
Tape Length:

Weather: Low fog on southern end of Prince of Wales Island prevented flying continuously between Brownson Bay and Nichols Bay; also between Nichols Bay and Cape Chacon. Weather on the eastern side of Prince of Wales was clear, allowing imagery to be shot starting from Cape Chacon to the north.

Time (UTC)	Location	Photo
16:25:01	Entrance to Nichols Bay	SE06_ML_04559
16:31:44	North end of Nichols Bay	SE06_ML_04681
16:39:46	Exit Nichols Bay (filming stopped due to fog)	SE06_ML_04775
	Filming Break due to fog (16:39:46 to 16:44:00)	
16:44:00	Slightly north of Cape Chacon (filming restarted)	SE06_ML_04778
16:50:19	Stone Rock Bay	SE06_ML_04884
17:06:35	West end McLean Arm	SE06_ML_05092
17:27:06	North shore entrance to Gardner Bay	SE06_ML_05268

Notes: Imagery is not continuous along shoreline due to fog and inability to fly those sections.

Flights originated and refueled on the Georgia Lee but returned to Ketchikan for the night after completion of the day's surveys.

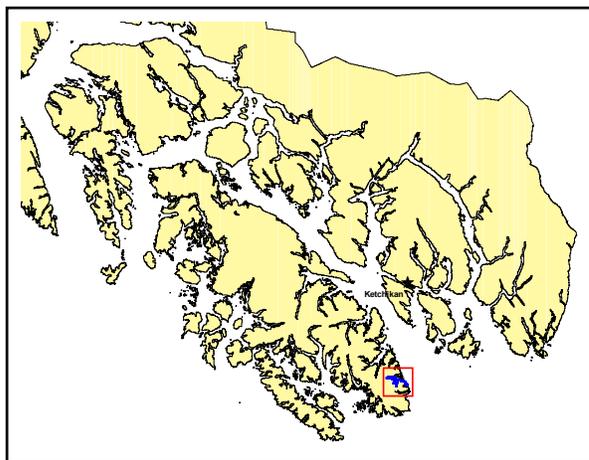
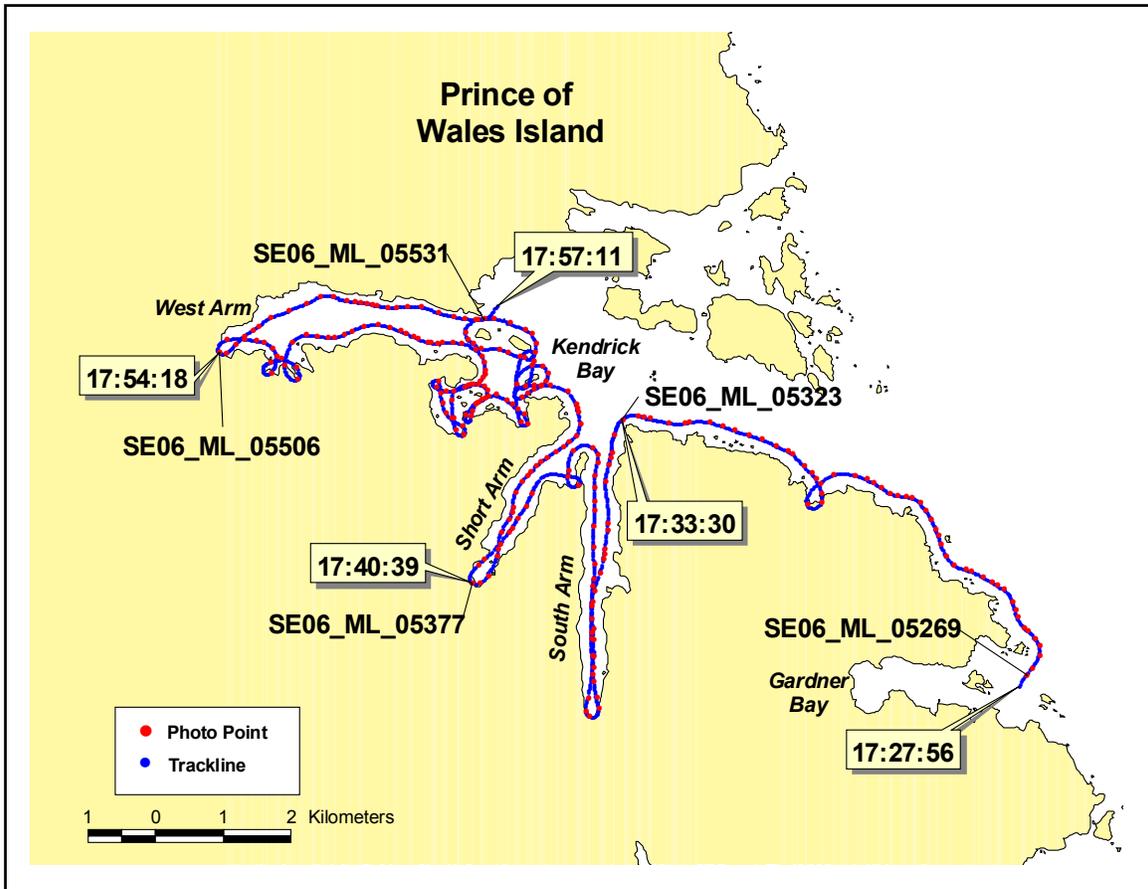


Figure 28. Location of Tape SE06_GL_10, 27 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_10 **Date:** 27 May 06

General Location: Gardner Bay, Kendrick Bay (SE corner of Prince of Wales Island)

Time Start (UTC): 17:27:56 **Geo:** Harney
Time End (UTC): 17:57:11 **Bio:** Lindeberg
Tape Length: 29:15 **Nav:** Morrow

Weather: Low fog on southern end of Prince of Wales Island prevented flying continuously between Brownson Bay and Nichols Bay; also between Nichols Bay and Cape Chacon. Weather on the eastern side of Prince of Wales was clear, allowing imagery to be shot starting from Cape Chacon to the north.

Time (UTC)	Location	Photo
17:27:56	North shore entrance to Gardner Bay	SE06_ML_05269
17:33:30	Entrance to South Arm of Kendrick Bay	SE06_ML_05323
17:40:39	South end of Short Arm, Kendrick Bay	SE06_ML_05377
17:54:18	West end of the West Arm of Kendrick Bay	SE06_ML_05506
17:57:11	North shore entrance to the West Arm of Kendrick Bay	SE06_ML_05531

Flights originated and refueled on the Georgia Lee but returned to Ketchikan for the night after completion of the day's surveys.

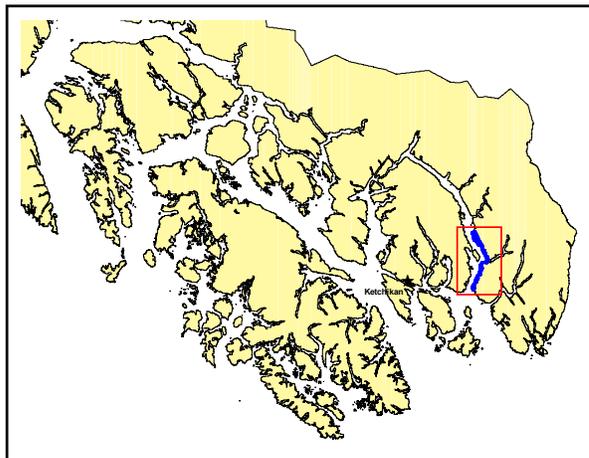
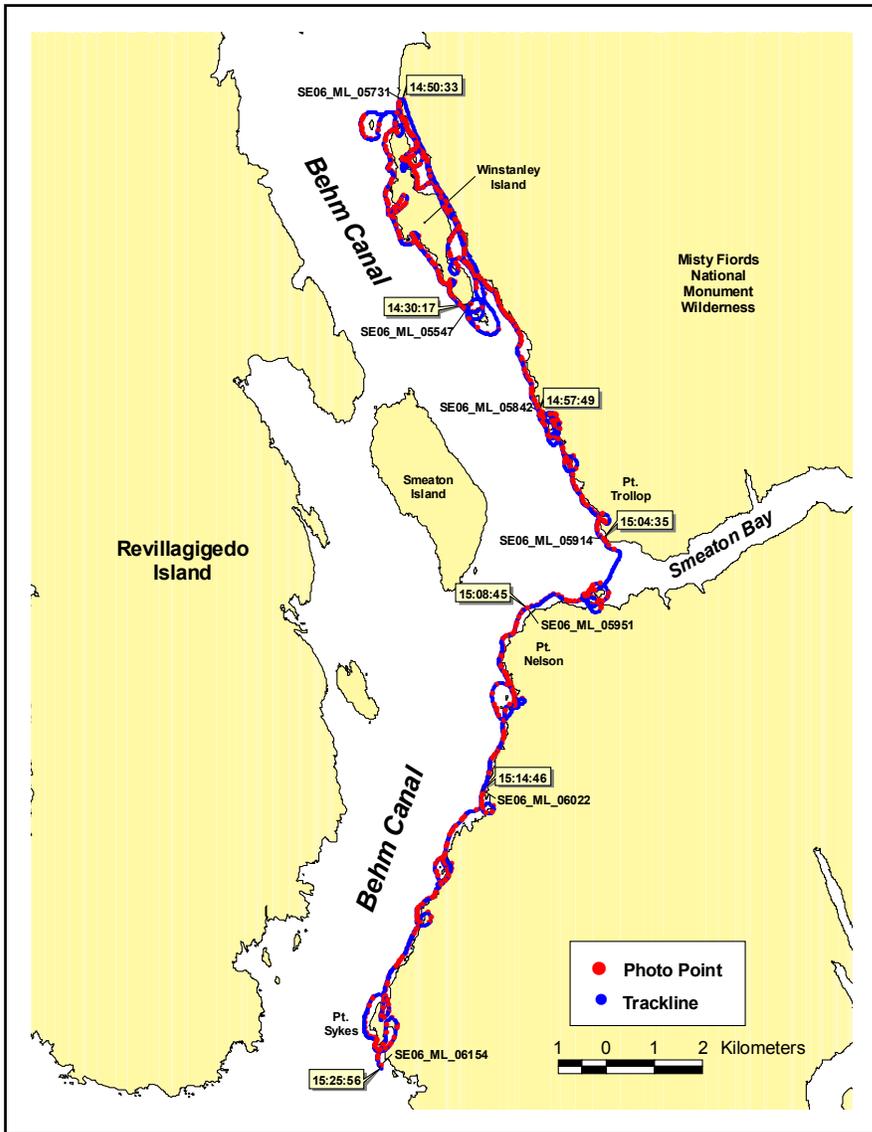


Figure 29. Location of Tape SE06_GL_11, 28 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_11 **Date:** 28 May 06

General Location: Winstanley Island, Shoalwater Pass, East side of the southern end of Behm Canal

Time Start (UTC): 14:30:17 **Geo:** Harney
Time End (UTC): 15:25:56 **Bio:** Lindeberg
Tape Length: 55:39 **Nav:** Morrow

Weather: Fog in Ketchikan but flew to Behm Canal where it was overcast. Towards the south there was some low fog and light rain but no breaks for weather.

Time (UTC)	Location	Photo
14:30:17	South end Winstanley Island (Candle Island), Behm Canal	SE06_ML_05547
14:50:33	North end Shoalwater Pass, Behm Canal	SE06_ML_05731
15:04:35	Point Trollop, north shore entrance to Smeaton Bay	SE06_ML_05914
15:08:45	Point Nelson, south shore entrance to Smeaton Bay	SE06_ML_05951
15:25:56	Slightly south of Point Sykes, south shore entrance to Behm Canal	SE06_ML_06154

Flight originated in Ketchikan, rendezvous with Georgia Lee for refuel at Foggy Bay. Overnight on Georgia Lee at Tongass Island in Nakat Bay.

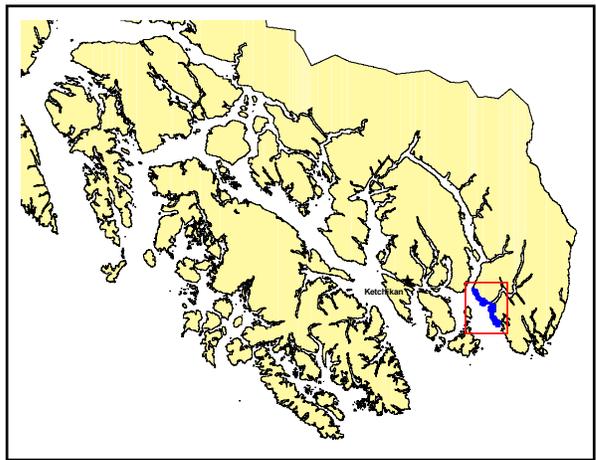
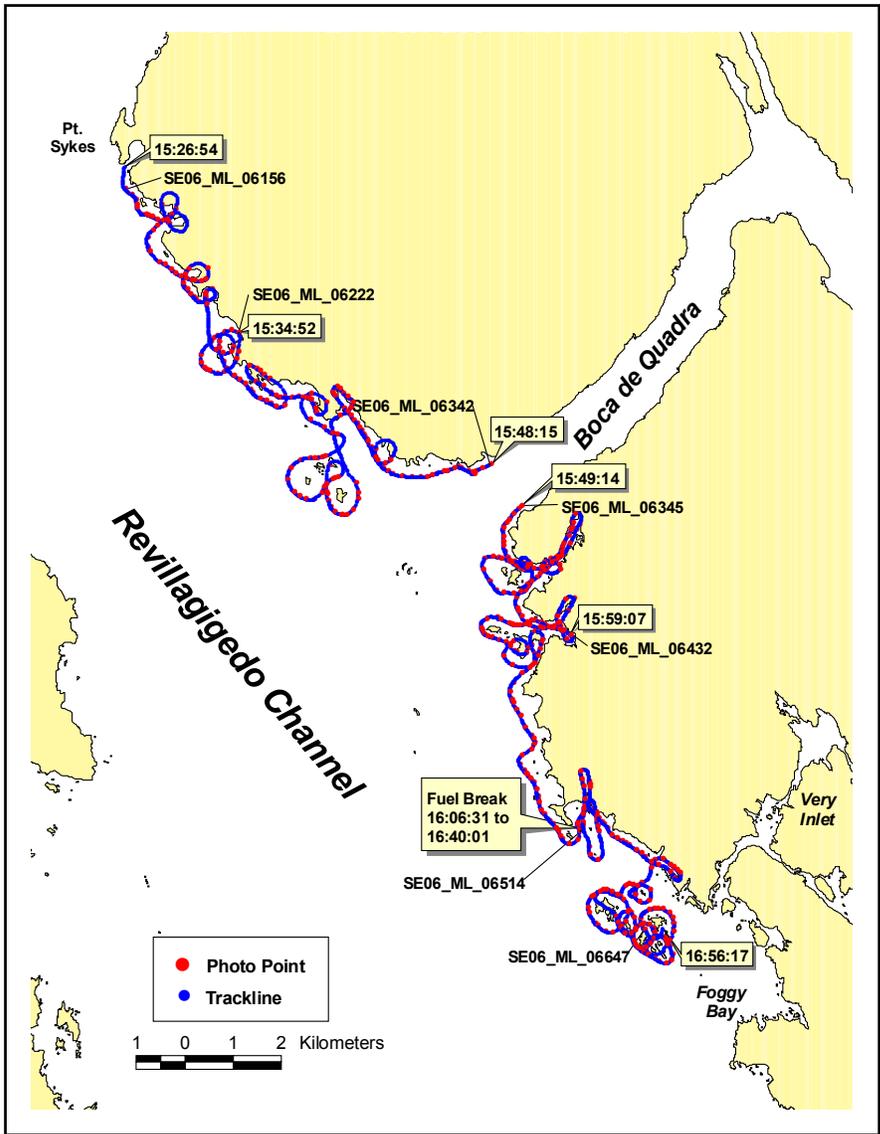


Figure 30. Location of Tape SE06_GL_12, 28 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_12 **Date:** 28 May 06

General Location: Eastern side of Revillagigedo Channel from the entrance of Behm Canal to northern Foggy Bay (Refuel on Georgia Lee in Foggy Bay)

Time Start (UTC):	15:26:54	Geo:	Harney
Filming Break:	15:48:16 to 15:49:13 (transit)	Bio:	Lindeberg
Fuel Break:	16:06:31 to 16:40:01	Nav:	Morrow
Time End (UTC):	16:56:17		
Tape Length:	55:56		

Weather: Fog in Ketchikan but flew to Behm Canal where it was overcast. Towards the south there was some low fog and light rain but no breaks for weather.

Time (UTC)	Location	Photo
15:26:54	Slightly south of Point Sykes in Revillagigedo Channel	SE06 ML 06156
15:48:15	North shore entrance to Boca de Quadra	SE06 ML 06342
	Filming Break - 15:48:16 to 15:49:13 (transit)	
15:49:14	South shore entrance to Boca de Quadra	SE06 ML 06345
15:59:07	Kah Shakes Cove	SE06 ML 06432
	Fuel Break - 16:06:31 to 16:40:01	SE06 ML 06514
16:56:17	Foggy Bay	SE06 ML 06647

Flight originated in Ketchikan, rendezvous with Georgia Lee for refuel at Foggy Bay. Overnight on Georgia Lee at Tongass Island in Nakat Bay.

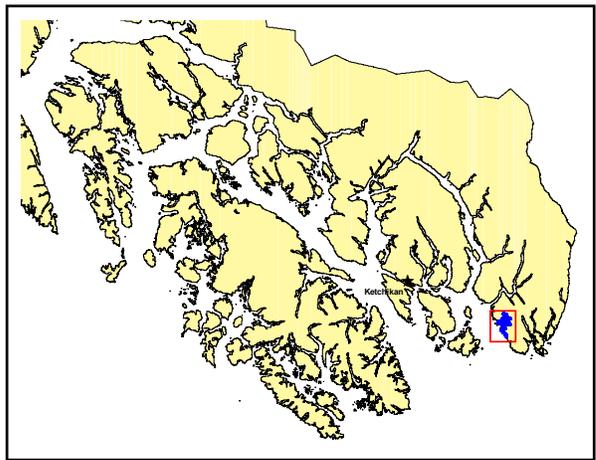
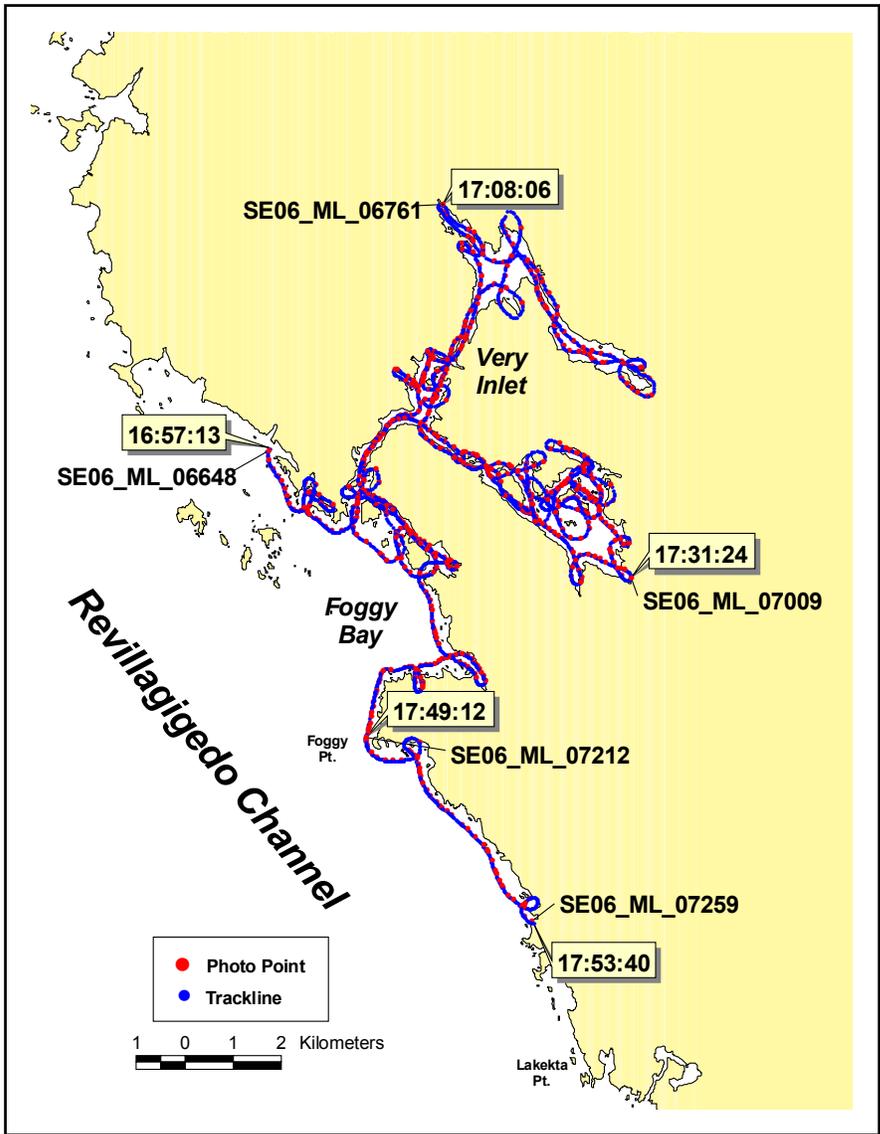


Figure 31. Location of Tape SE06_GL_13, 28 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_13 **Date:** 28 May 06

General Location: Foggy Bay, Very Inlet, Foggy Point at the southeastern edge of Revillagigedo Channel

Time Start (UTC): 16:57:13 **Geo:** Harney
Time End (UTC): 17:53:40 **Bio:** Lindeberg
Tape Length: 56:27 **Nav:** Morrow

Weather: Fog in Ketchikan but flew to Behm Canal where it was overcast. Towards the south there was some low fog and light rain but no breaks for weather.

Time (UTC)	Location	Photo
16:57:13	Foggy Bay, slightly north of the entrance to Very Inlet	SE06 ML 06648
17:08:06	Northern tip of Very Inlet	SE06 ML 06761
17:31:24	Southern tip of Very Inlet	SE06 ML 07009
17:49:12	Foggy Point	SE06 ML 07212
17:53:40	Approximately halfway between Foggy Point and Lakekta Point	SE06 ML 07259

Flight originated in Ketchikan, rendezvous with Georgia Lee for refuel at Foggy Bay. Overnight on Georgia Lee at Tongass Island in Nakat Bay.

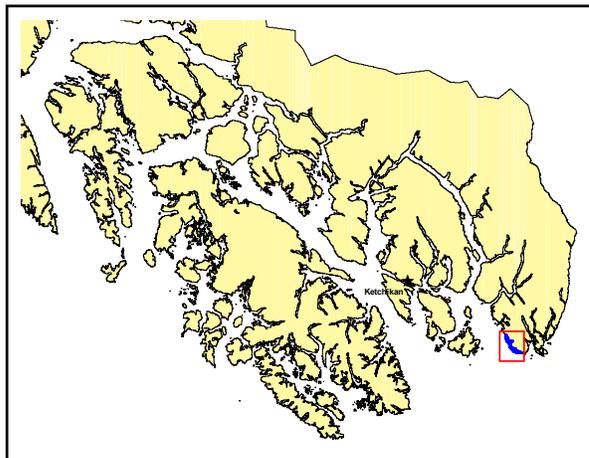
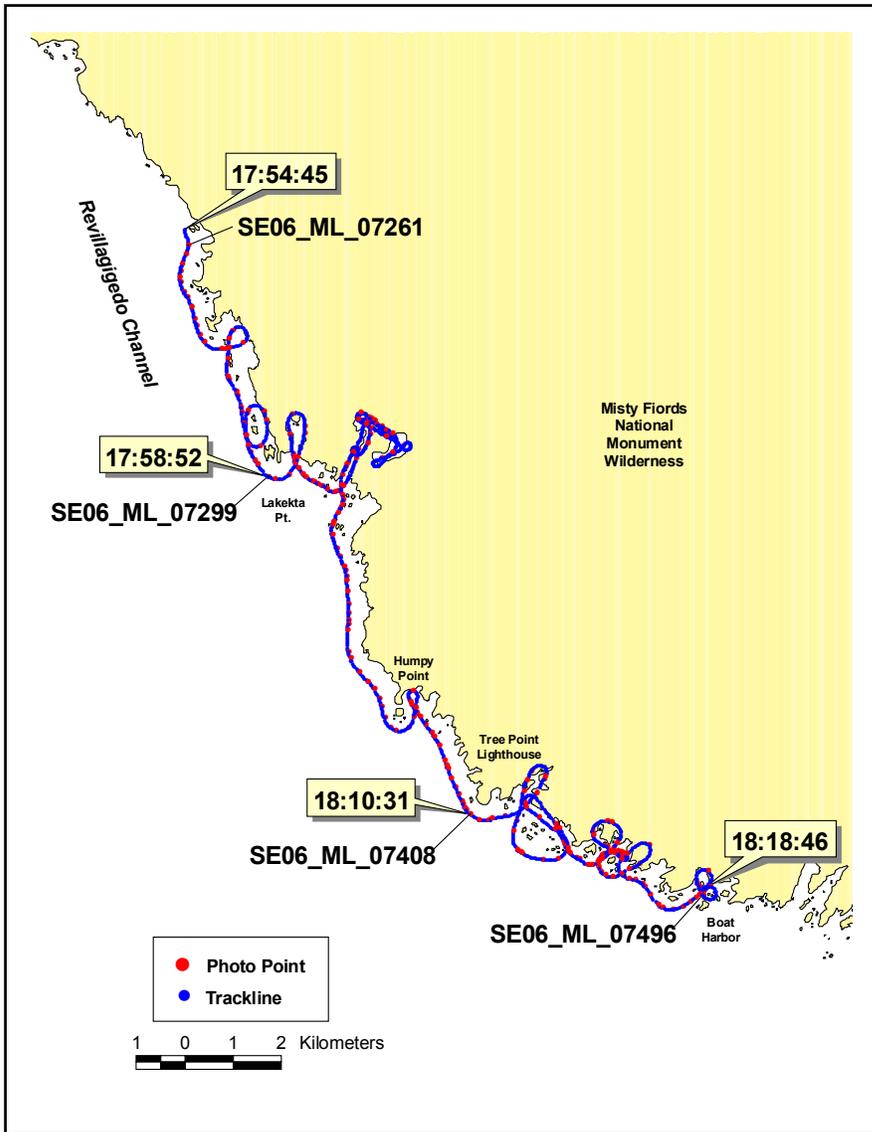


Figure 32. Location of Tape SE06_GL_14, 28 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_14 **Date:** 28 May 06

General Location: Lakekta Point, Humpy Point, Tree Point, Boat Harbor on the Southeastern end of Revillagiedo Channel. Finished slightly north of Cape Fox covering 70 km extra than planned for the day.

Time Start (UTC): 17:54:45 **Geo:** Harney
Time End (UTC): 18:18:46 **Bio:** Lindeberg
Tape Length: 24:01 **Nav:** Morrow

Weather: Fog in Ketchikan but flew to Behm Canal where it was overcast. Towards the south there was some low fog and light rain but no breaks for weather.

Time (UTC)	Location	Photo
17:54:45	Approximately halfway between Foggy Point and Lakekta Point	SE06_ML_07261
17:58:52	Lakekta Point	SE06_ML_07299
18:10:31	Tree Point (Lighthouse)	SE06_ML_07408
18:18:46	Boat Harbor, slightly north of Cape Fox	SE06_ML_07496

Flight originated in Ketchikan, rendezvous with Georgia Lee for refuel at Foggy Bay. Overnight on Georgia Lee at Tongass Island in Nakat Bay.

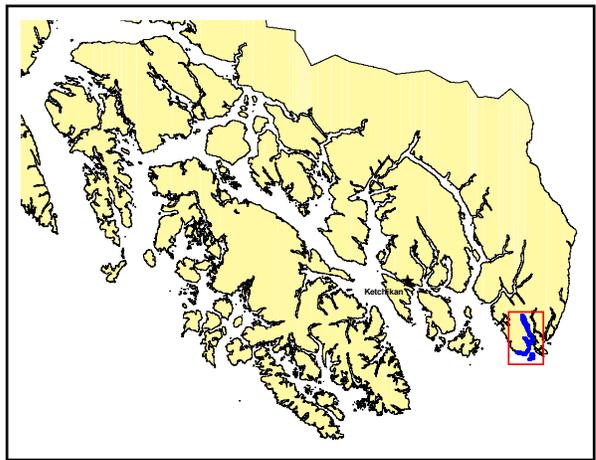
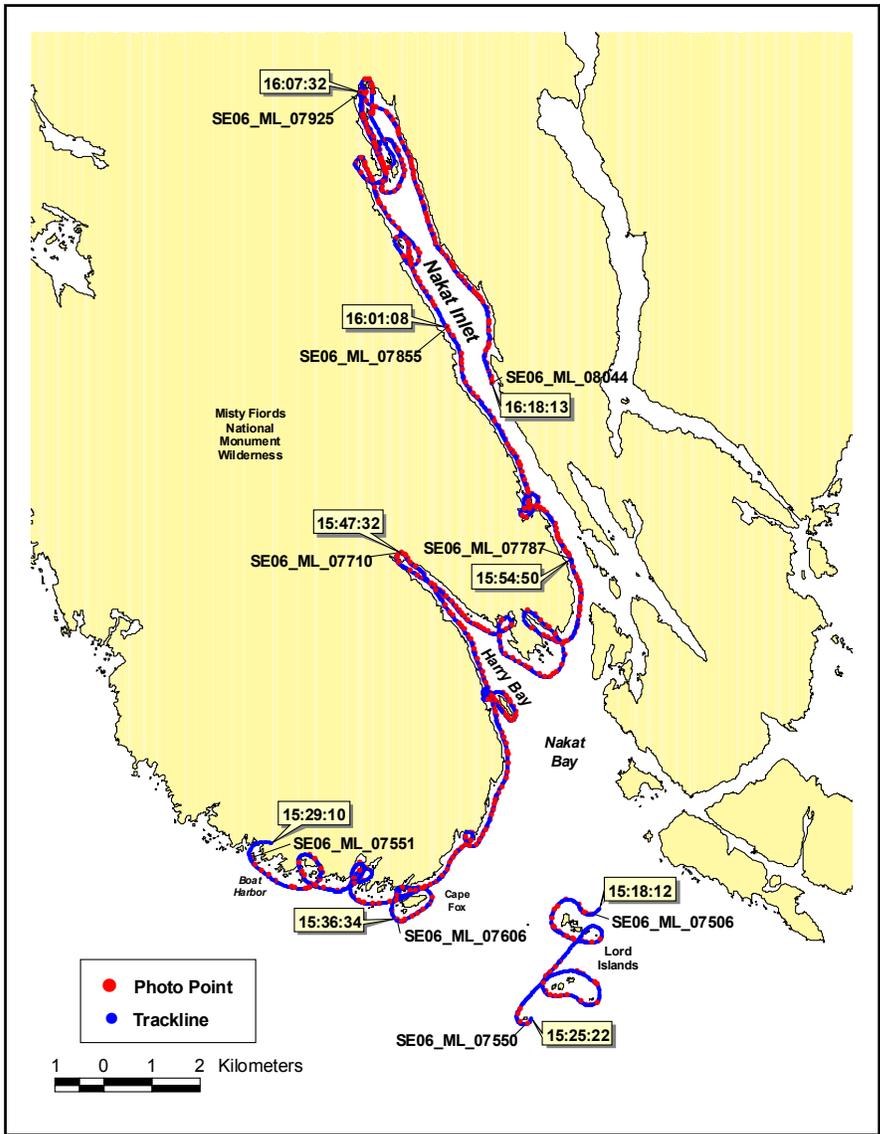


Figure 33. Location of Tape SE06_GL_15, 29 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_15 **Date:** 29 May 06

General Location: Lord Islands, Cape Fox, Harry Inlet, Nakat Bay, Nakat Inlet

Time Start (UTC): 15:18:12 **Geo:** Harney
Filming Break: 15:25:23 to 15:29:09 (transit) **Bio:** Lindeberg
Time End (UTC): 16:18:13 **Nav:** Morrow
Tape Length:

Weather: High overcast, light wind, no fog or rain; great conditions.

Time (UTC)	Location	Photo
15:18:12	Lord Islands	SE06 ML 07506
	Filming Break 15:25:23 to 15:29:09 (transit)	
15:29:10	Slightly north of Boat Harbor	SE06 ML 07551
15:36:34	Cape Fox / Fox Island	SE06 ML 07606
15:47:32	North end of Harry Bay	SE06 ML 07710
15:54:50	West shore entrance to Nakat Inlet	SE06 ML 07787
16:07:32	North end of Nakat Inlet	SE06 ML 07925
16:18:13	Halfway along East shore of Nakat Inlet	SE06 ML 08044

Flight originated from the Georgia Lee at Tongass Island with a refuel in the same location. Rendezvous and overnight on Georgia Lee at Just Island.

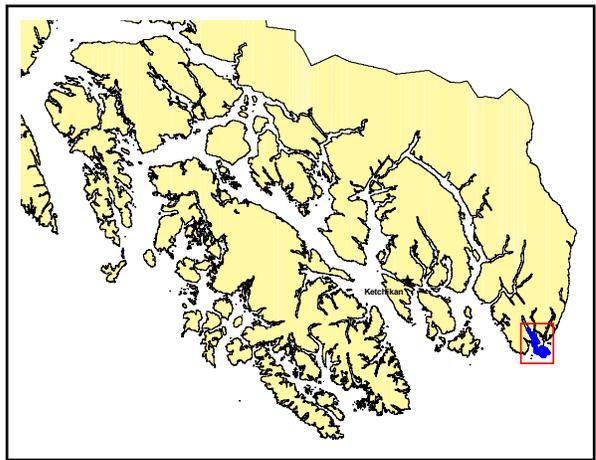
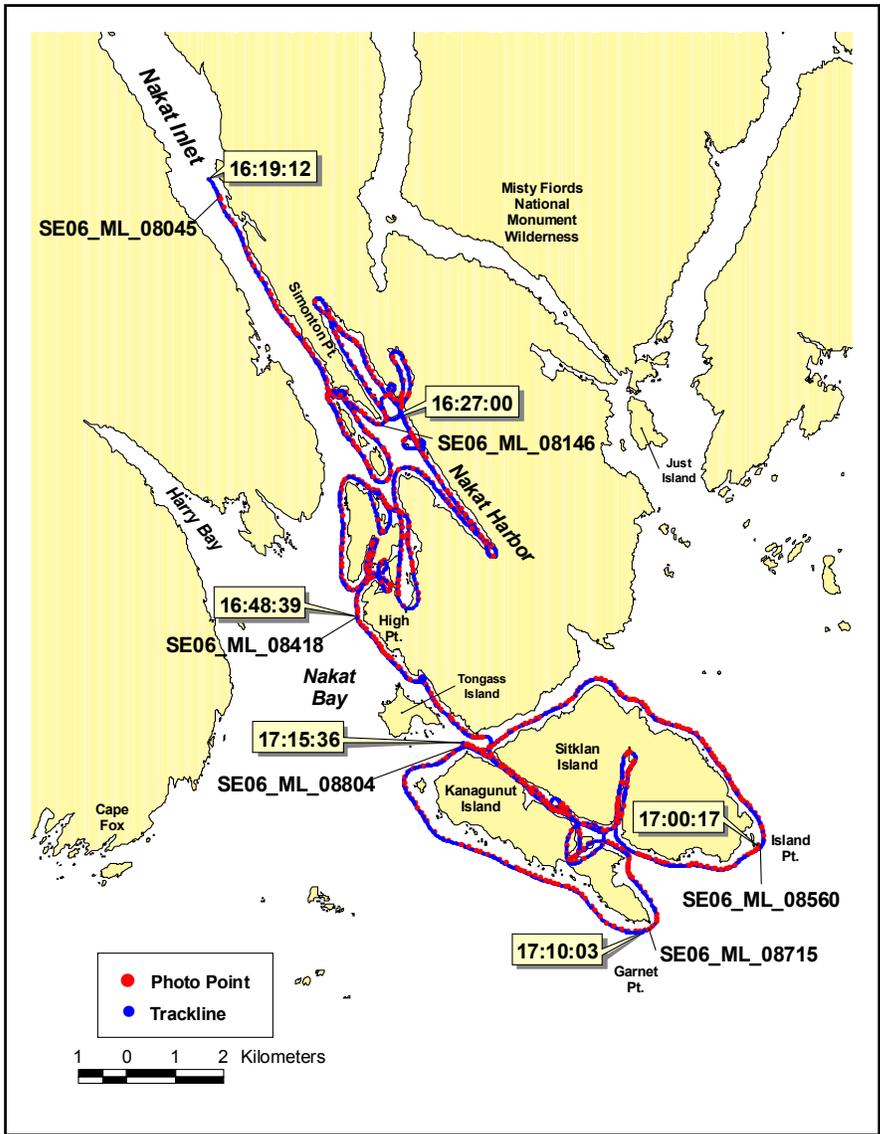


Figure 34. Location of Tape SE06_GL_16, 29 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_16 **Date:** 29 May 06

General Location: Nakat Inlet, Nakat Harbor, Nakat Bay, Sitklan Island, Kanagunut Island

Time Start (UTC): 16:19:12 **Geo:** Harney
Time End (UTC): 17:15:36 **Bio:** Lindeberg
Tape Length: 56:24 **Nav:** Morrow

Weather: High overcast, light wind, no fog or rain; great conditions

Time (UTC)	Location	Photo
16:19:12	Halfway along east shore of Nakat Inlet	SE06_ML_08045
16:27:00	Simonton Point, north entrance to Nakat Harbor	SE06_ML_08146
16:48:39	High Point, Nakat Harbor	SE06_ML_08418
17:00:17	Island Point, SE corner of Sitklan Island	SE06_ML_08560
17:10:03	Garnet Point, south tip of Kanagunut Island	SE06_ML_08715
17:15:36	NE tip of Kanagunut Island in Sitklan Passage	SE06_ML_08804

Flight originated from the Georgia Lee at Tongass Island with a refuel in the same location. Rendezvous and overnight on Georgia Lee at Just Island.

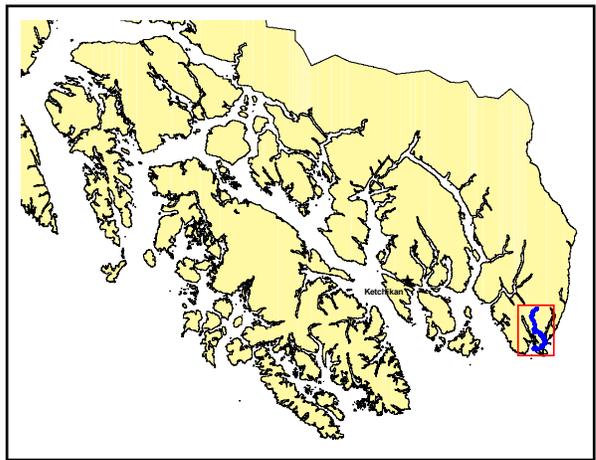
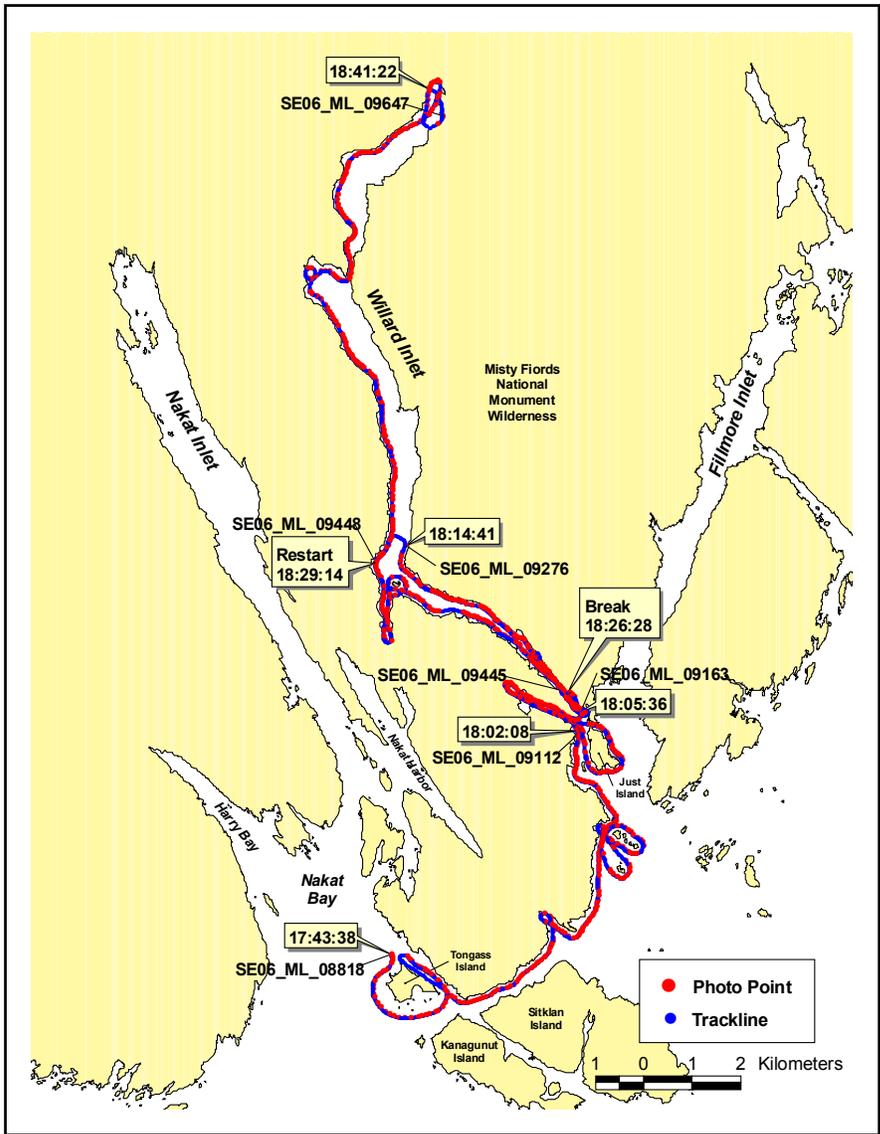


Figure 35. Location of Tape SE06_GL_17, 29 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_17 **Date:** 29 May 06

General Location: Tongass Island, Sitklan Passage, Just Island, Willard Inlet

Time Start (UTC): 17:43:38 **Geo:** Harney
Filming Break: 18:26:29 to 18:29:13 (transit) **Bio:** Lindeberg
Time End (UTC): 18:41:22 **Nav:** Morrow
Tape Length: 54:58

Weather: High overcast, light wind, no fog or rain; great conditions

Time (UTC)	Location	Photo
17:43:38	North tip of Tongass Island, Nakat Bay	SE06 ML 08818
18:02:08	NE corner of Just Island	SE06 ML 09112
18:05:36	Entrance to Willard Inlet	SE06 ML 09163
18:14:41	Crossover to East shore of Willard Inlet	SE06 ML 09276
18:26:28	End of low and slow flight over entrance to Willard Inlet	SE06 ML 09445
	Filming Break 18:26:29 to 18:29:13 (Transit north up Willard Inlet)	
18:29:14	Restart filming halfway along west shore of Willard Inlet	SE06 ML 09448
18:41:22	North end of Willard Inlet	SE06 ML 09647

Notes: Decision was made to return to the entrance of Willard Inlet to observe extraordinary biology during low tide window. A low and slow flight was made there followed by a break in filming to return to previous location further up Willard Inlet.

Flight originated from the Georgia Lee at Tongass Island with a refuel in the same location. Rendezvous and overnight on Georgia Lee at Just Island.

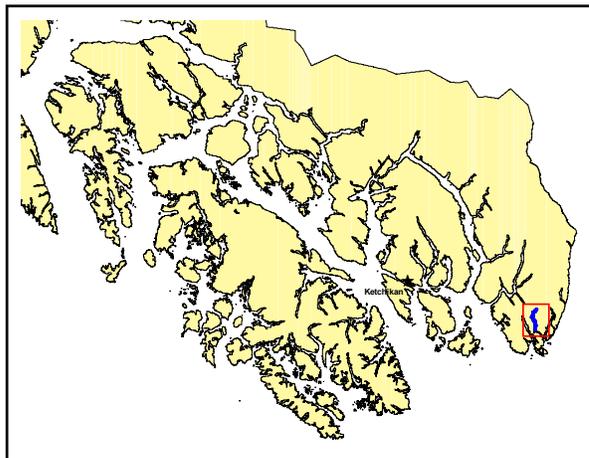
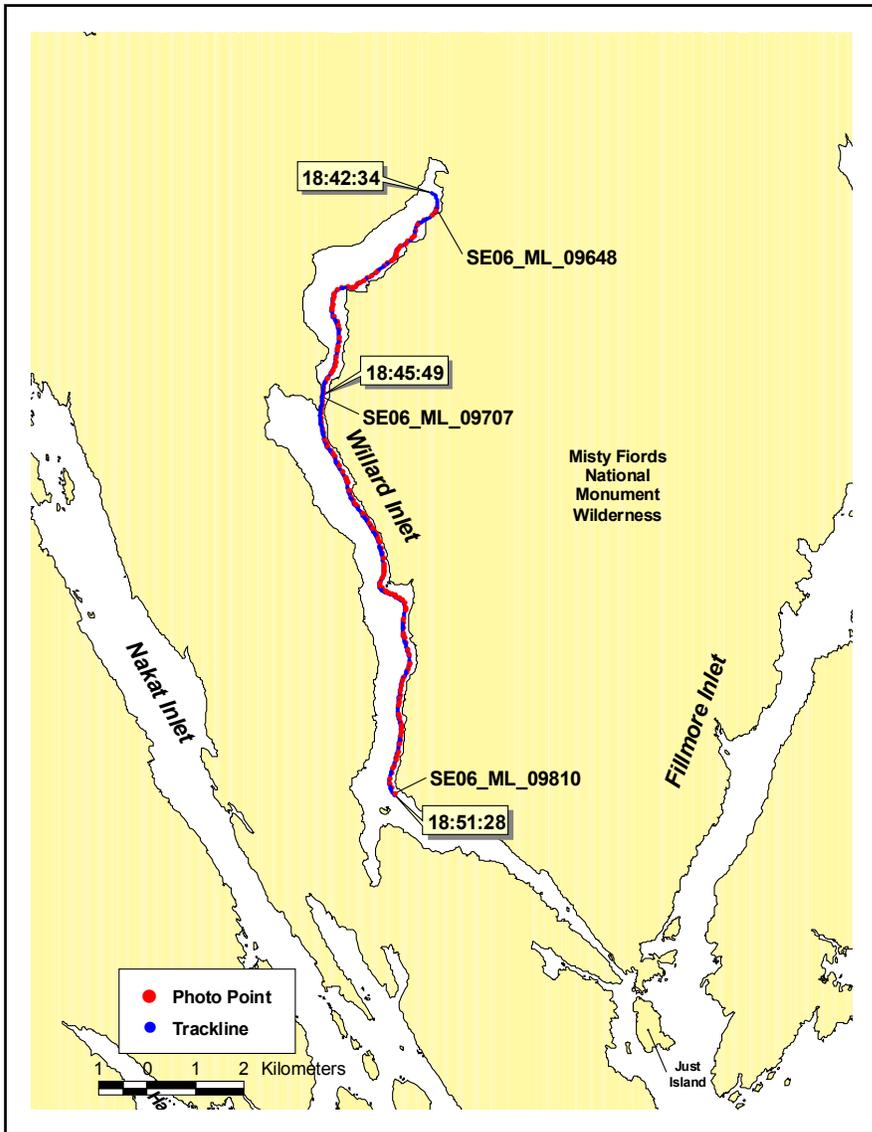


Figure 36. Location of Tape SE06_GL_18, 29 May 06

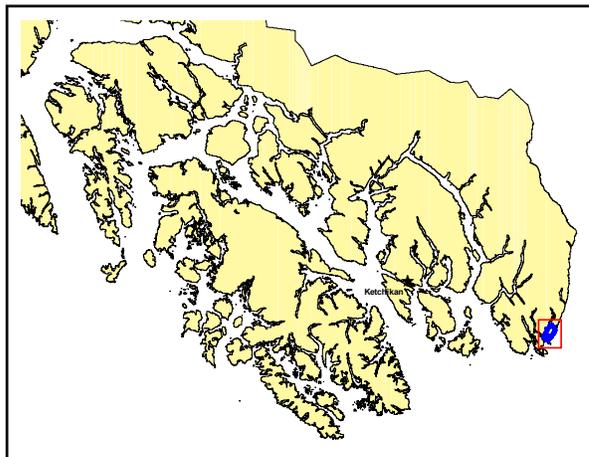
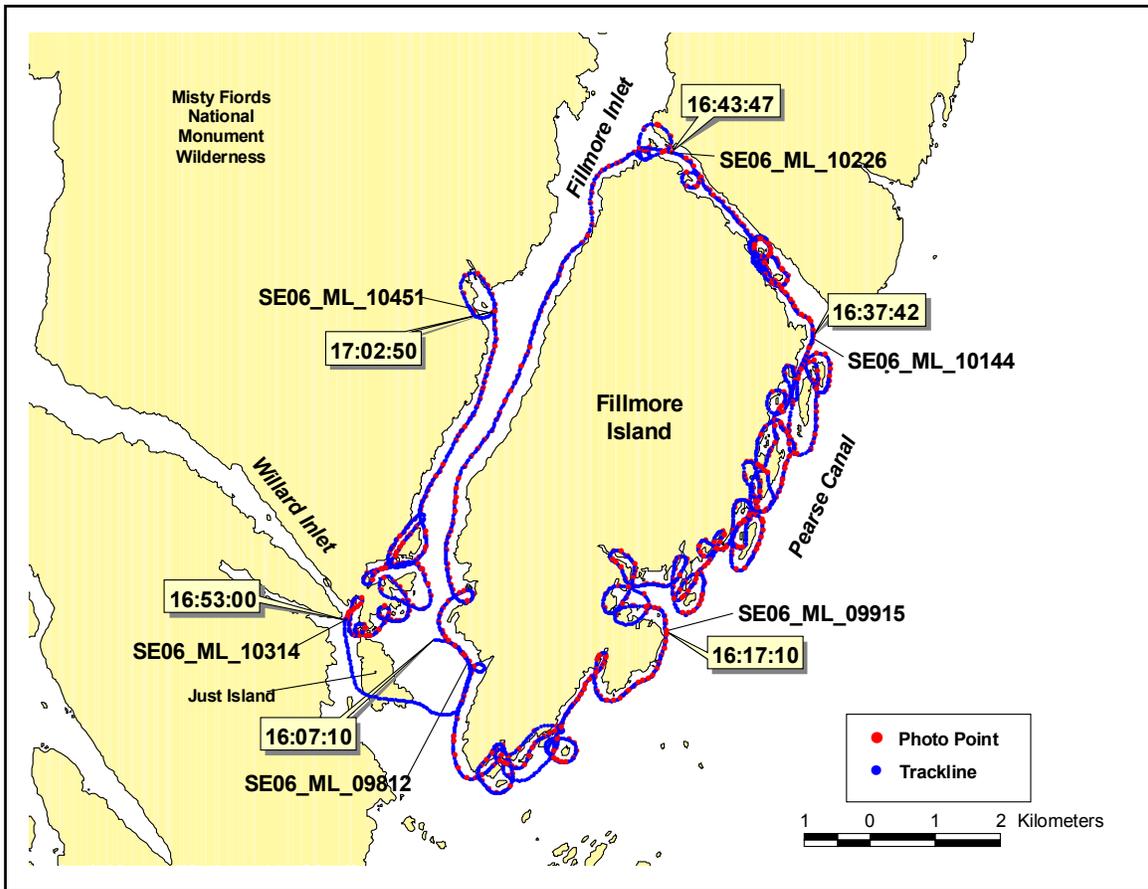


Figure 37. Location of Tape SE06_GL_19, 30 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_19 **Date:** 30 May 06

General Location: Fillmore Island, Pearse Canal, Edward Passage, Fillmore Inlet

Time Start (UTC): 16:07:10 **Geo:** Harney
Time End (UTC): 17:02:50 **Bio:** Lindeberg
Tape Length: 55:40 **Nav:** Morrow

Weather: High ceiling with rain, moderate wind

Time (UTC)	Location	Photo
16:07:10	West side of Fillmore Island, slightly north of Male Point	SE06 ML 09812
16:17:10	Regina Cove, Fillmore Island	SE06 ML 09915
16:37:42	East corner of Fillmore Island	SE06 ML 10144
16:43:47	NE corner of Fillmore Island, north end Edward Passage	SE06 ML 10226
16:53:00	East shore entrance to Willard Inlet (did not enter inlet)	SE06 ML 10314
17:02:50	Halfway along north shore of Fillmore Inlet	SE06 ML 10451

Flight originated from Georgia Lee at Just Island with a refuel in the same location. Crew returned to Ketchikan following the day's survey and another refuel on the Georgia Lee.

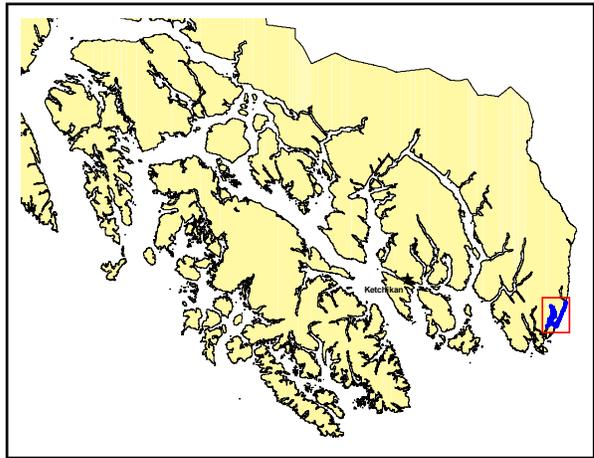
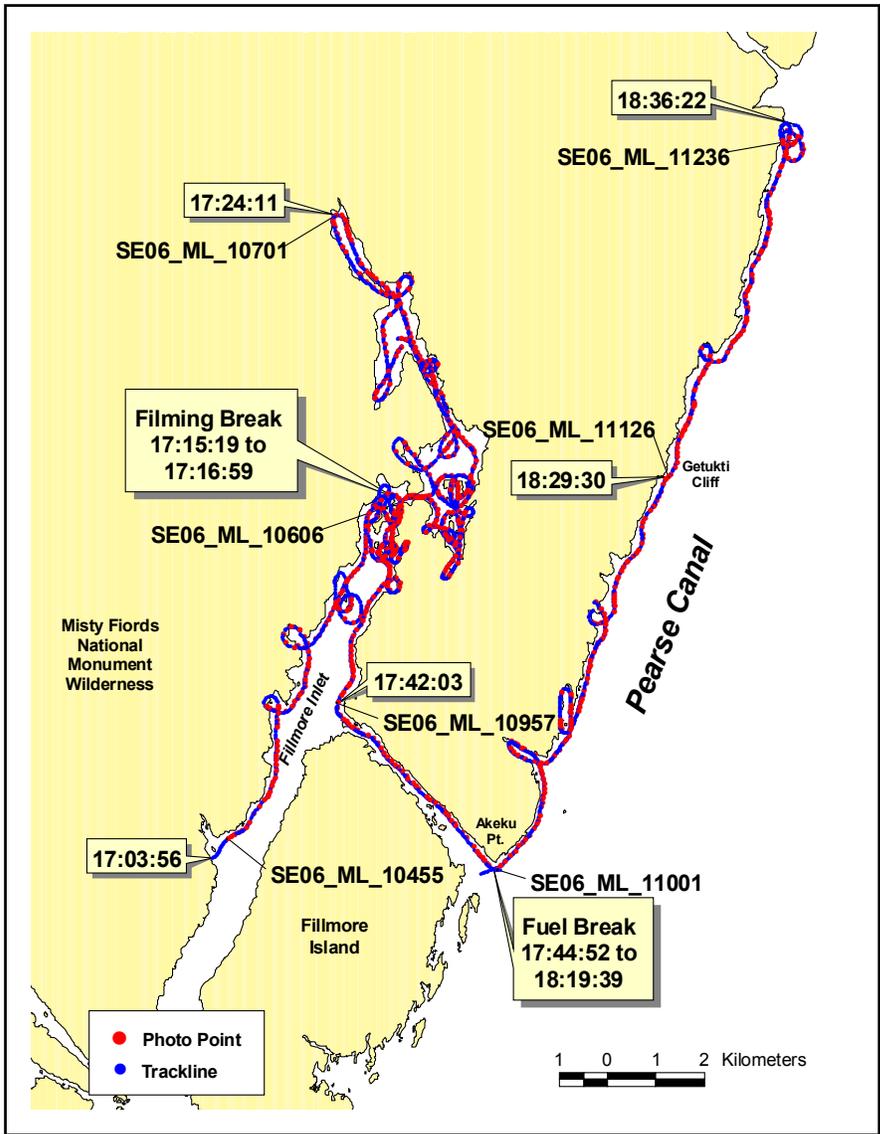


Figure 38. Location of Tape SE06_GL_20, 30 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_20 **Date:** 30 May 06

General Location: Fillmore Inlet, Edward Passage (refuel), Akeku Point, North shore
Pearse Canal to Hidden Inlet

Time Start (UTC):	17:03:56	Geo:	Harney
Filming Break:	17:15:19 to 17:16:59 (audio problems)	Bio:	Lindeberg
Fuel Break:	17:44:52 to 18:19:39	Nav:	Morrow
Time End (UTC):	18:36:22		
Tape Length:	56:15		

Weather: High ceiling with rain, moderate wind

Time (UTC)	Location	Photo
17:03:56	Halfway along north shore of Fillmore Inlet	SE06 ML 10455
	Filming Break 17:15:19 to 17:16:59 (audio problems)	
17:17:00	Restart filming in northern Fillmore Inlet	SE06 ML 10606
17:24:11	North tip of Fillmore Inlet	SE06 ML 10701
17:42:03	Entrance to north end of Edward Passage	SE06 ML 10957
	Fuel Break 17:44:52 to 18:19:39, Akeku Point	SE06 ML 11001
18:29:30	Getukti Cliff, north shore Pearse Canal	SE06 ML 11126
18:36:22	Slightly south of Hidden Inlet, Pearse Canal	SE06 ML 11236

Flight originated from Georgia Lee at Just Island with a refuel in the same location. Crew returned to Ketchikan following the day's survey and another refuel on the Georgia Lee.

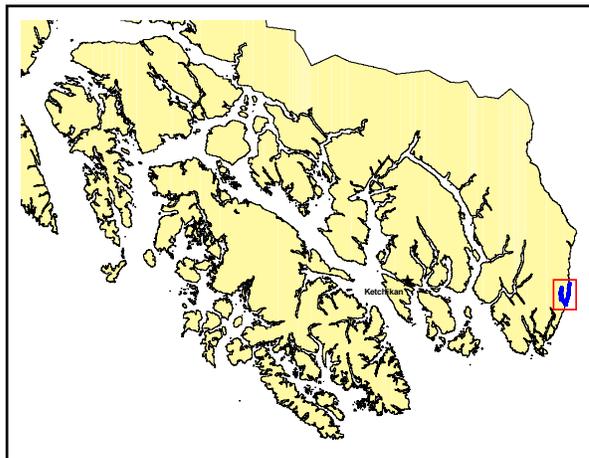
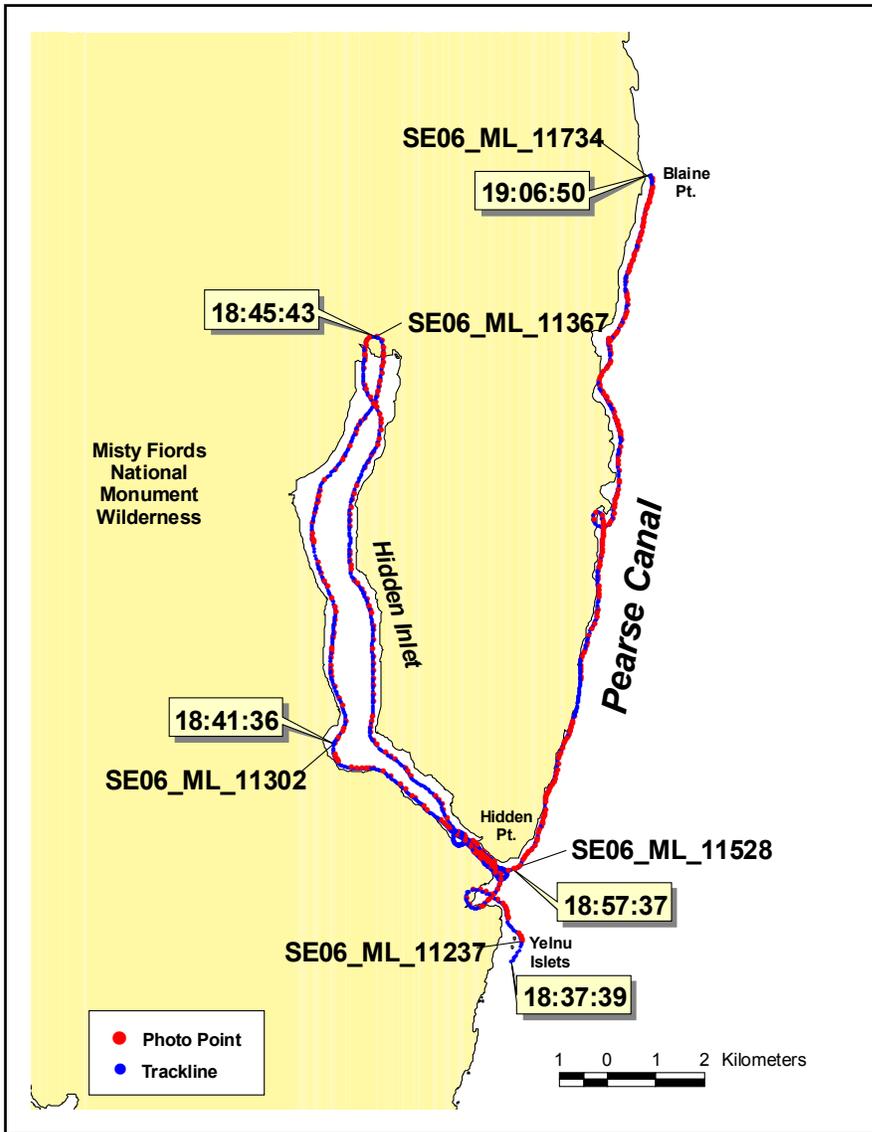


Figure 39. Location of Tape SE06_GL_21, 30 May 06

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Georgia Lee**

Tape: SE06_GL_21 **Date:** 30 May 06

General Location: Yelnu Islets, Hidden Inlet, north shore Pearse Canal from Hidden Inlet to Blaine Point

Time Start (UTC): 18:37:39 **Geo:** Harney
Time End (UTC): 19:06:50 **Bio:** Lindeberg
Tape Length: 29:11 **Nav:** Morrow

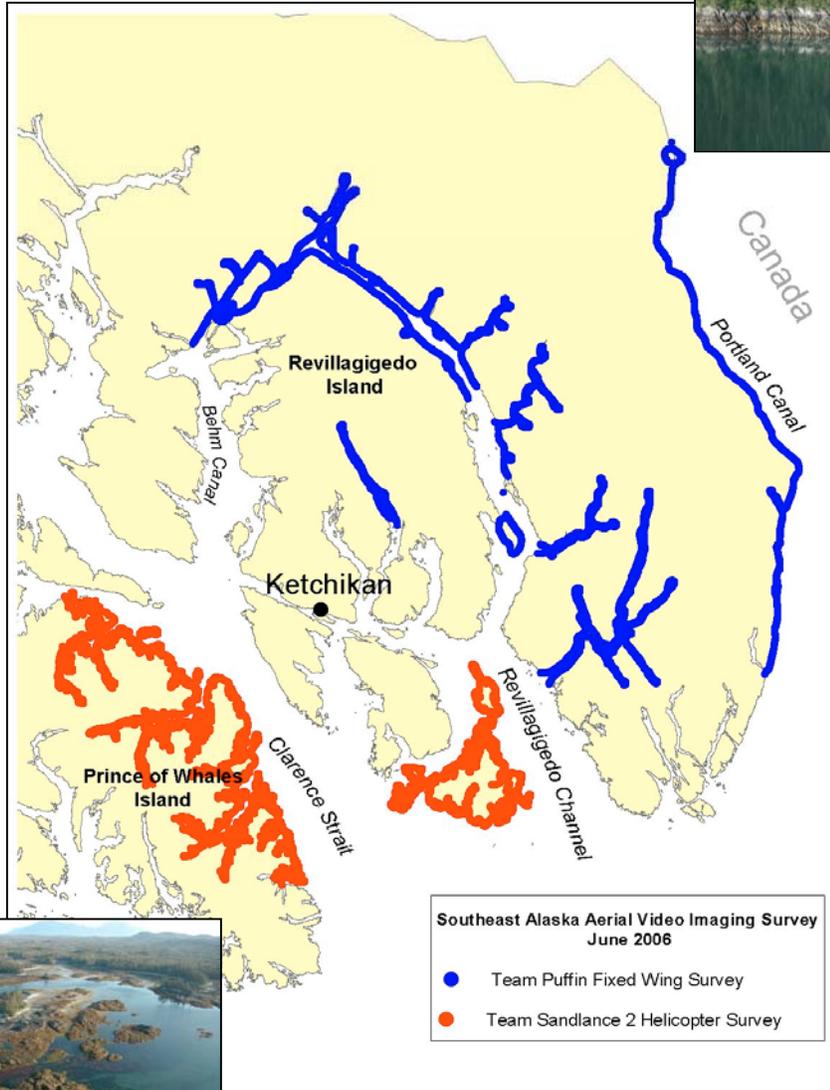
Weather: High ceiling with rain, moderate wind

Time (UTC)	Location	Photo
18:37:39	Yelnu Islets, slightly south of Hidden Inlet	SE06_ML_11237
18:41:36	Outlet of Hidden Inlet Lake into Hidden Inlet	SE06_ML_11302
18:45:43	Northern tip of Hidden Inlet	SE06_ML_11367
18:57:37	Hidden Point, north shore entrance to Hidden Inlet	SE06_ML_11528
19:06:50	Blaine Point, north shore Pearse Canal at junction with Portland Canal	SE06_ML_11734

Note: Low and slow passes were conducted over the entrance to Hidden Inlet because of extraordinary biology.

Flight originated from Georgia Lee at Just Island with a refuel in the same location. Crew returned to Ketchikan following the day's survey and another refuel on the Georgia Lee.

Southeast Alaska Aerial Video Imaging Survey, (11 - 16 June 2006)



Prepared for: The Nature Conservancy
Juneau, Alaska



**COASTAL & OCEAN
RESOURCES INC.**

214-9865 W. Saanich Rd., Sidney, BC V8L 5Y8
www.coastalandoceans.com

INTRODUCTION

This survey combines the use of digital video camera technology with real-time GPS mapping to image the shoreline of areas in southeast Alaska: Behm Canal, Misty Fiords National Monument, Portland Canal and Boca De Quadra at low tide. The unusual features of the survey are: (a) the survey was conducted during the lowest tides of the year so the entire intertidal zone is imaged; (b) the technique is not weather dependent so imagery can be collected in any conditions under which aircraft can fly and; (c) both a coastal ecologist and coastal geomorphologist were in the aircraft providing real-time commentary on intertidal features that may not be visible on the imagery.

The survey was conducted by Coastal & Ocean Resources, Inc. (CORI), of Sidney, BC under contract to The Nature Conservancy, located in Juneau Alaska.

This report is divided into two sections, one for each flight survey team. Section 1 (Team Puffin) begins on Page 5 . Figure A illustrates the locations of the various tapes over the course of the four-day fixed-wing survey. Section 2 (Team Sandlance 2) begins on Page 25, with figure B illustrating the tape locations from this helicopter-based survey. The flight crew names and responsibilities are summarized in Tables 1 and 2.

Table 1: Southeast Alaska AVI Flight Personnel and Responsibilities (Team Puffin)

Function	Individual/ Affiliation	Responsibilities
<i>Geomorphologist Project leader Navigator</i>	Neil Borecky CORI	co-ordination of survey, video imaging, geomorphology commentary, project reporting in flight navigation & recording, post-flight track plotting
<i>Coastal ecologist</i>	Heather Anderson, Archipelago Marine Resources	biology commentary, digital photographs
<i>Pilot</i>	Stephan, Promech Air LLC	

Table 2: Southeast Alaska AVI Flight Personnel and Responsibilities (Team Sandlance 2)

Function	Individual/ Affiliation	Responsibilities
<i>Geomorphologist Project leader</i>	Jodi Harney CORI	co-ordination of survey, video imaging, geomorphology commentary, project reporting
<i>Coastal ecologist</i>	Mary Morris, Archipelago Marine Resources	biology commentary, digital photographs
<i>Navigator</i>	Sherri Ward CORI	in flight navigation & recording, post-flight track plotting
<i>Pilot</i>	Lewis Hart, Coastal Helicopters	

Part I: Team Puffin, Fixed Wing

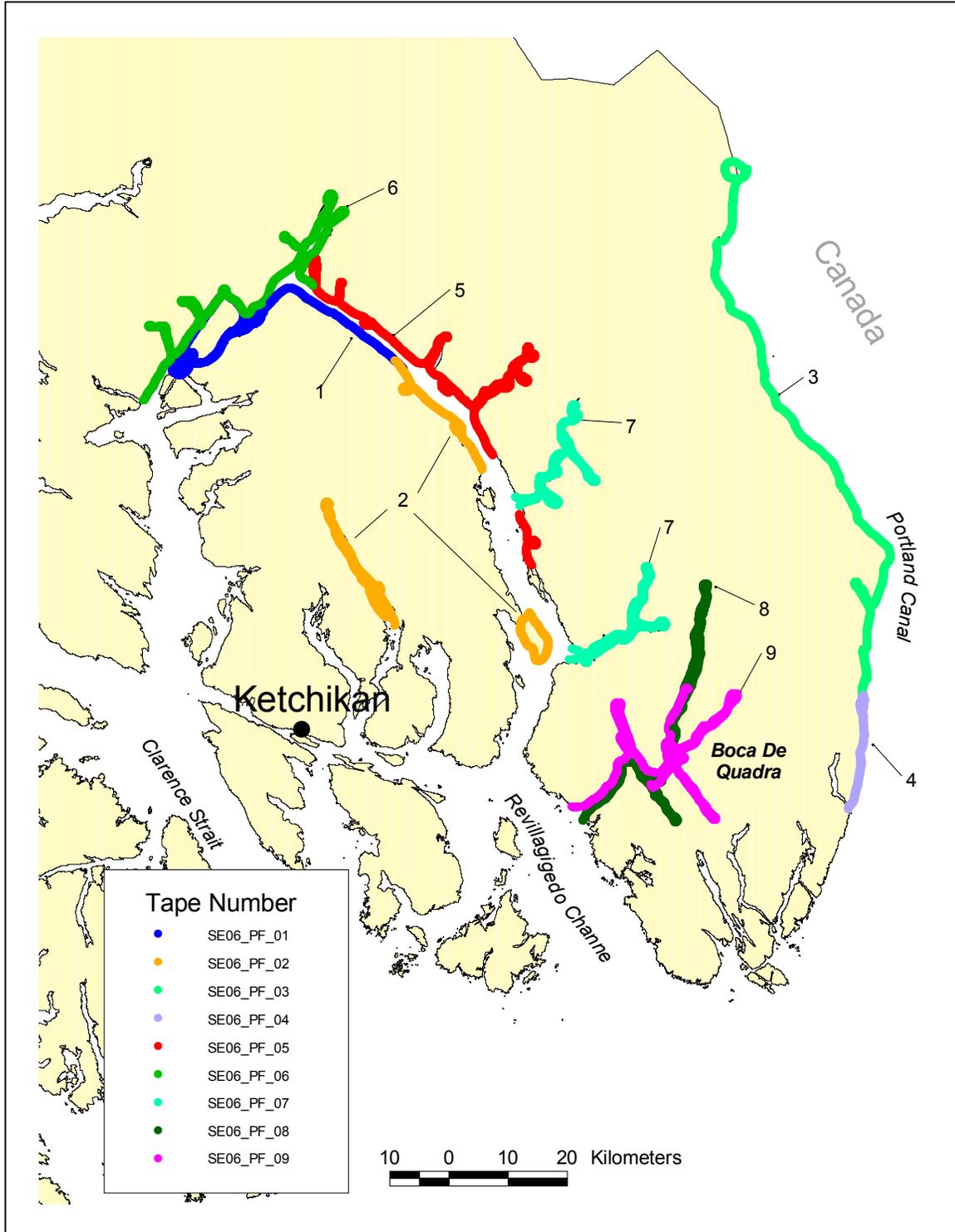


Figure A Tape Numbers for Team Puffin, Fixed-wing survey, June 2006.

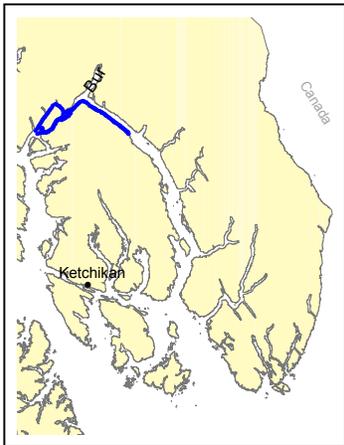
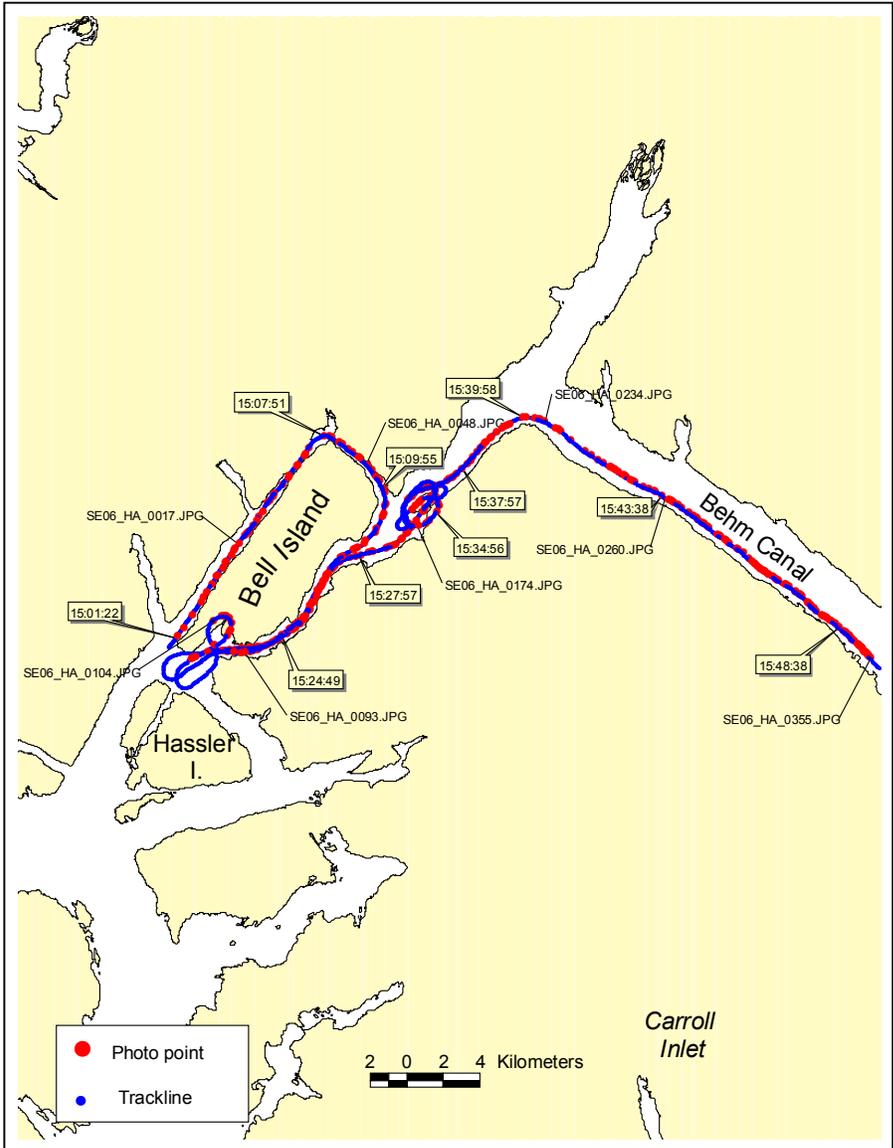


Figure 1. Location of Tape SE06_PF_01, 12 June 2006.

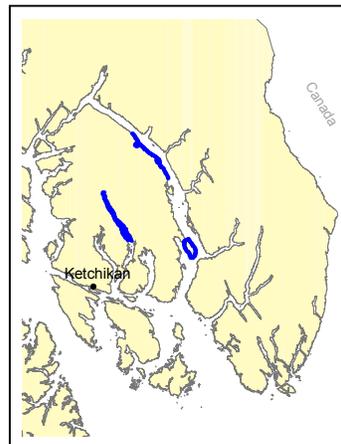
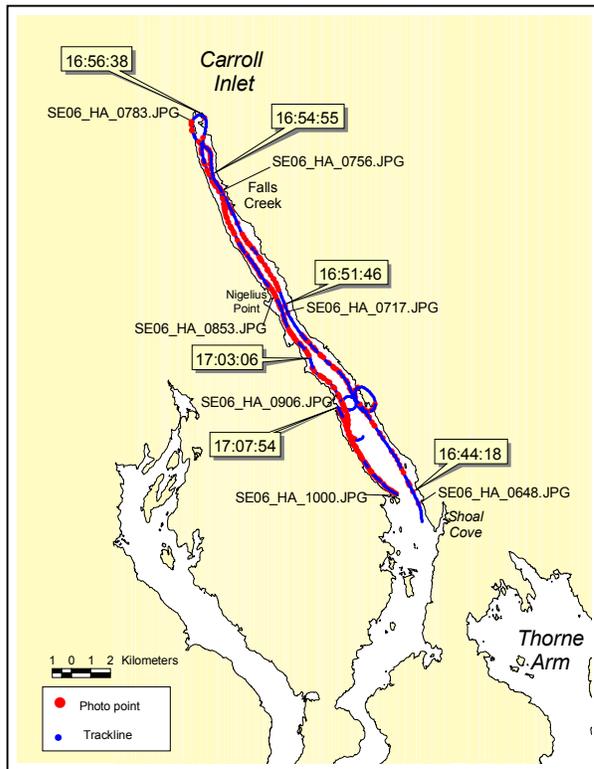
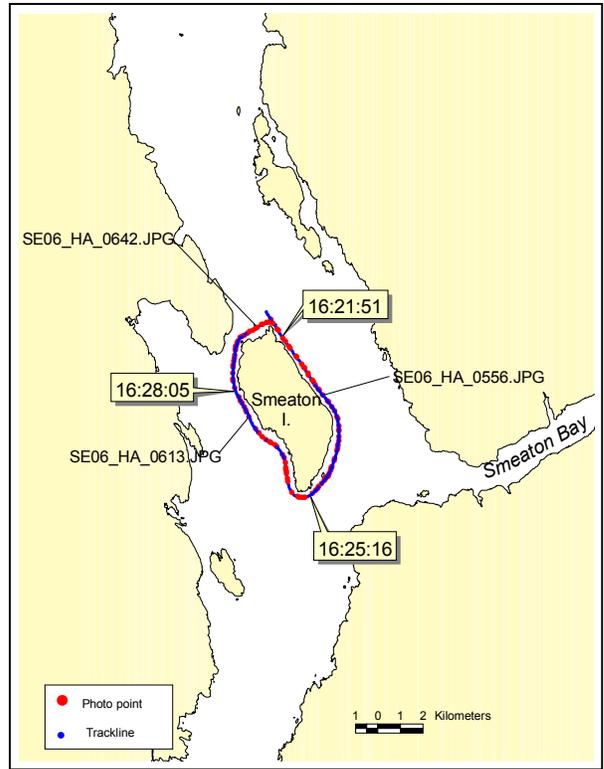
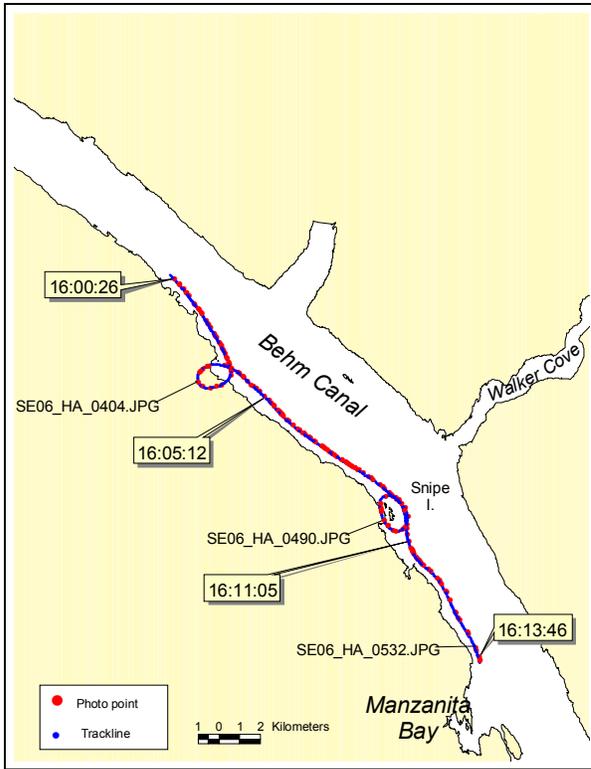


Figure 2. Location of Tape SE06_PF_02, 12 June 2006.

**2006 Southeast Alaska Aerial Video Imaging Survey
Team Puffin**

Tape: SE06_PF_02 **Date:** 12 June 06

General Location: Eastern Behm Canal, Smeaton Island, Upper Carroll Inlet

Time Start (UTC): 16:00:21 **Geo:** Borecky
Break Transit from Manzanita Bay to Smeaton **Bio:** Anderson
 Island: 16:13:53 to 16:21:14

Break Transit from Smeaton to Carroll Inlet: **Nav:** Borecky
 16:30:01 to 16:43:30

Time End (UTC): 17:10:30

Tape Length: 48:59

Weather: Bright, Sunny Day

Time (UTC)	Location	Photo
16:03:30	Portage Cove, Behm Canal	SE06_HA_0404
16:09:30	Snipe Island	SE06_HA_0490
16:13:35	Just north of Manzanita Bay	SE06_HA_0532
16:13:53 to 16:21:14	Transit from Manzanita Bay to Smeaton Island	
16:23:07	East side of Smeaton Island	SE06_HA_0556
16:27:26	West side of Smeaton Island	SE06_HA_0613
16:30:01 to 16:43:30	Transit from Smeaton to Carroll Inlet	
16:43:57	North of Shoal Cove	SE06_HA_0648
16:56:14	Head of Carroll Inlet	SE06_HA_0783
17:01:22	Nigelius Point	SE06_HA_0853
17:10:29	Island Point	SE06_HA_1000

*Note: overlap with SE06_GL_03 from 17:03:55 to 17:10:30 (we filmed this regardless as it was on the way and wanted to ensure complete overlap.

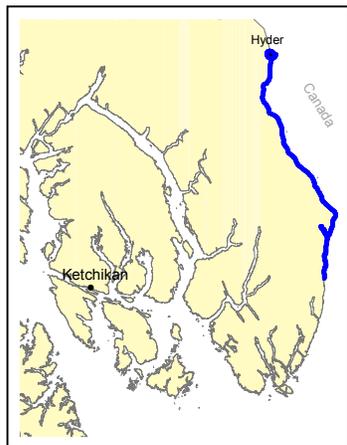
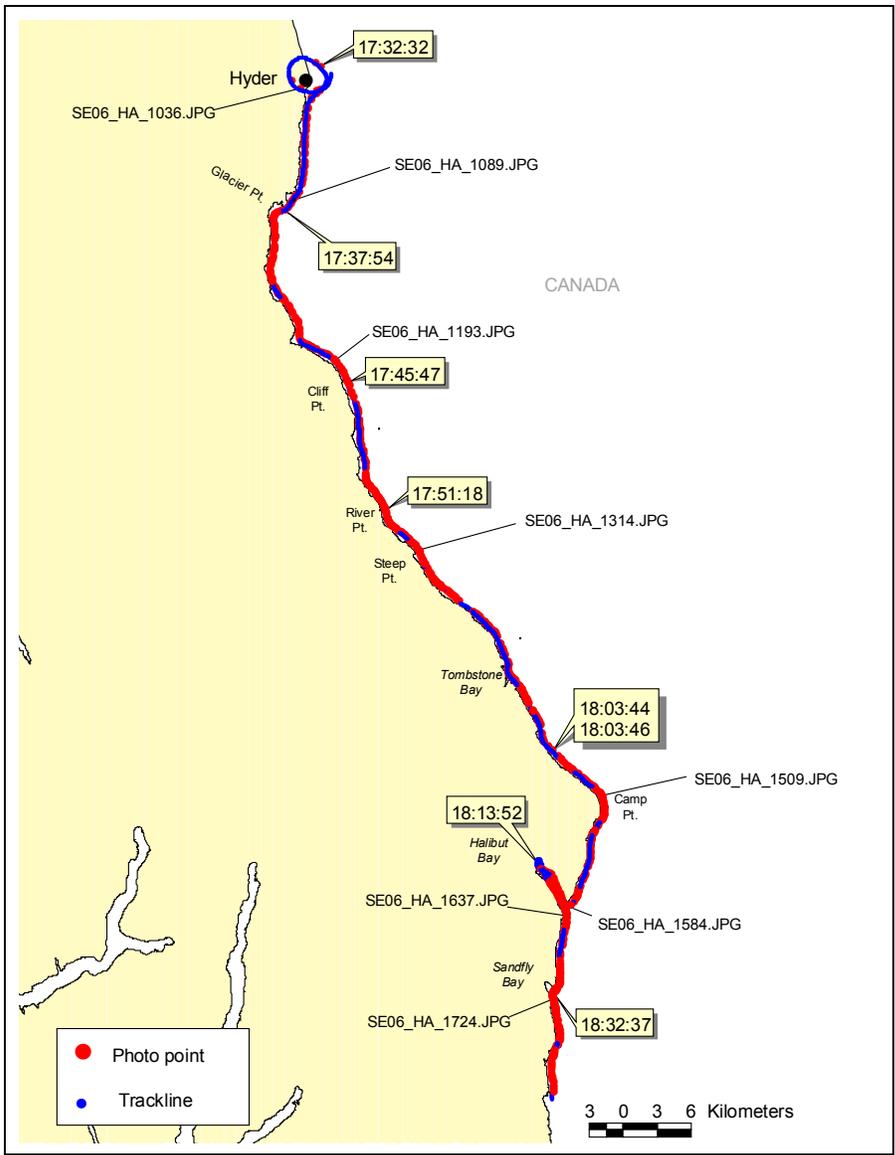


Figure 3. Location of Tape SE06_PF_03, 13 June 2006.

Tape: SE06_PF_03

Date: 13 June 06

General Location: Portland Canal, Hyder to Hidden Inlet

Time Start (UTC): 17:30:04

Geo: Borecky

Fog Break 18:22:27 to 18:31:50

Bio: Anderson

Time End (UTC): 18:36:48

Nav: Borecky

Tape Length: 57:21

Weather: Bright, Sunny Day with Foggy Patches

Time (UTC)	Location	Photo
17:31:04	Salmon River Delta, Hyder	SE06_HA_1036
17:37:21	Glacier Point	SE06_HA_1089
17:44:46	Cliff Point	SE06_HA_1193
17:53:32	Steep Point	SE06_HA_1314
18:06:32	Camp Point	SE06_HA_1509
18:11:40	N. entrance to Halibut Bay	SE06_HA_1584
18:16:36	Mouth of Halibut Bay, south exit	SE06_HA_1637
	Fog Break 18:22:27 to 18:31:50	
18:32:42	Sandfly Bay, south shore	SE06_HA_1724

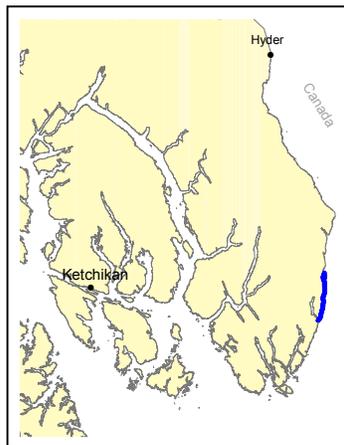
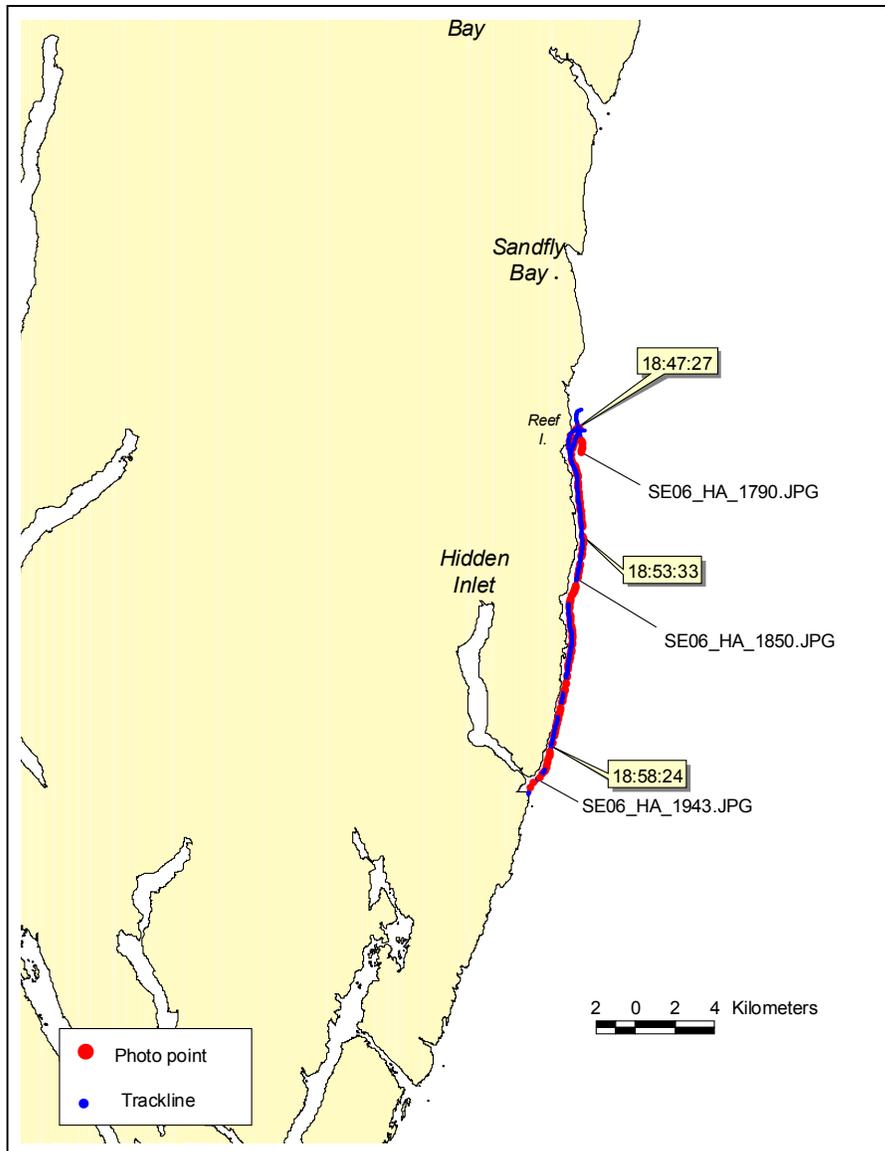


Figure 4. Location of Tape SE06_PF_04, 13 June 2006.

Tape: SE06_PF_04 **Date:** 13 June 06

General Location: Pearse Canal to Hidden Inlet

Time Start (UTC): 18:46:55
Fog Break 18:47:35 to 18:48:07, 18:49:13 to 18:50:51

Geo: Borecky
Bio: Anderson

Time End (UTC): 18:59:44
Tape Length: 13:30

Nav: Borecky

Weather: Bright, Sunny Day with Foggy Patches

Time (UTC)	Location	Photo
18:49:11	Reef Island	SE06_HA_1790
18:54:29	Halfway between Reef Island and Hidden Inlet	SE06_HA_1850
18:59:15	Hidden Inlet	SE06_HA_1943

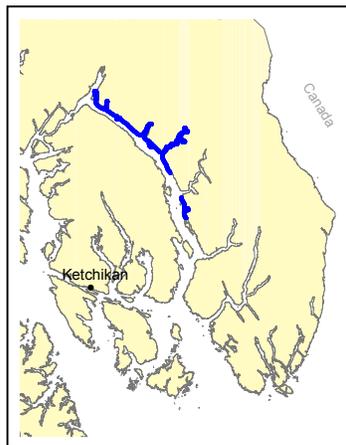
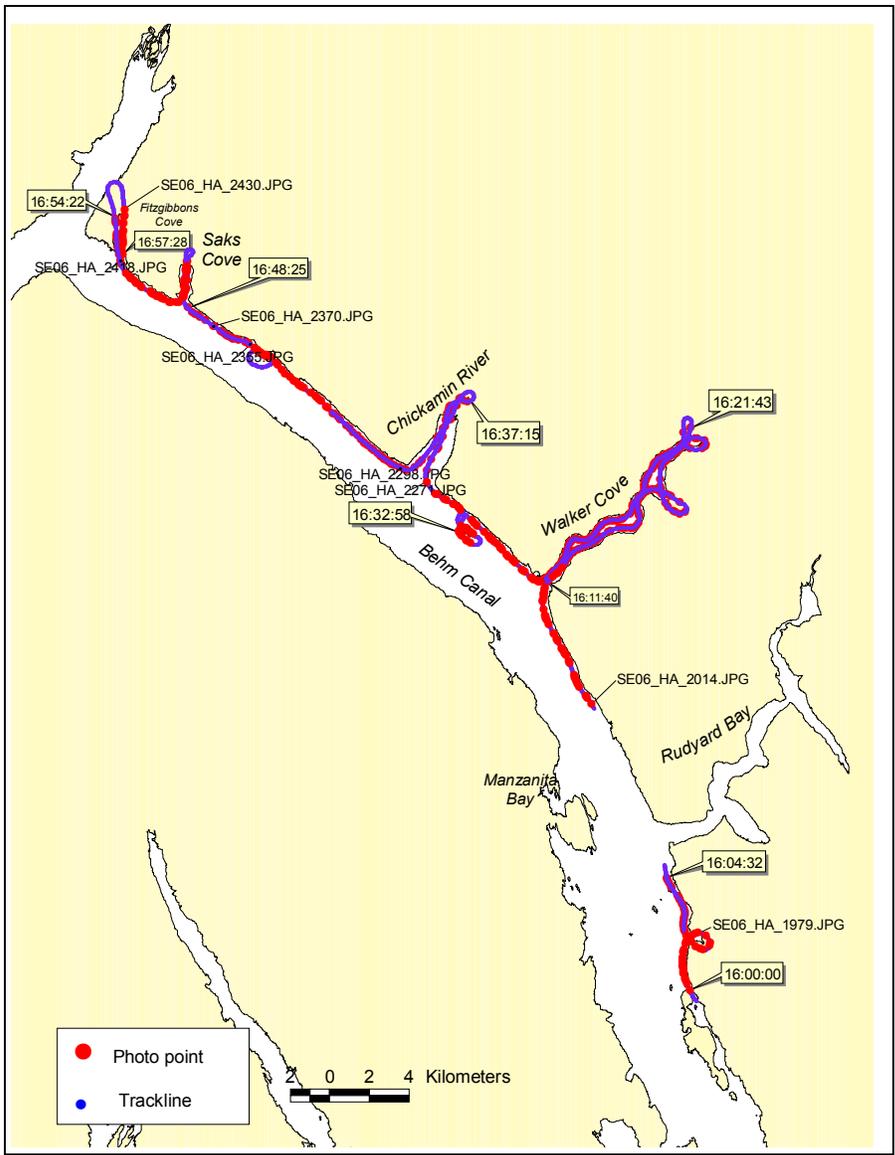


Figure 5. Location of Tape SE06_PF_05, 14 June 2006.

Tape: SE06_PF_05

Date: 14 June 06

General Location: Behm Canal, Walker Cove

Time Start (UTC): 15:59:39

Geo: Borecky

**Pre-taped segment
(transit)** 16:04:52 to 16:08:28

Bio: Anderson

Time End (UTC): 16:57:30

Nav: Borecky

Tape Length: 55:10

Weather: Rainy, Drizzle...Tailwind.

***note ...fill gap in Recorder tap from 16:08:08 to 16:08:28 from Camera**

Time (UTC)	Location	Photo
16:00:00	Shoalwater Pass	SE06_HA_1957
16:04:32	Behm Canal, 2km south of Rudyard Bay	SE06_HA_2006
Transit	16:04:52 to 16:08:28	
16:11:40	S. entrance to Walker Cove	SE06_HA_2048
16:21:43	Head of Walker Cove	SE06_HA_2136
16:32:58	Channel Islands	SE06_HA_2261
16:37:15	Head of Chikamin River mud flats	SE06_HA_2285
16:48:25	S. entrance to Saks Cove	SE06_HA_2376
16:54:22	Head of Fitzgibbons Cove	SE06_HA_2429
16:57:28	S. entrance to Fitzgibbons Cove	SE06_HA_2445

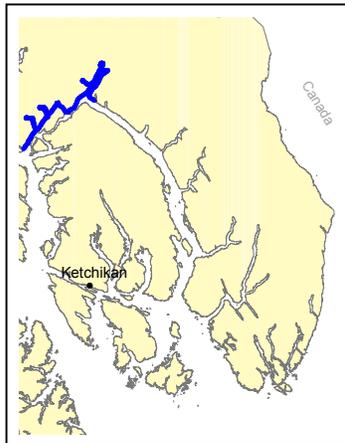
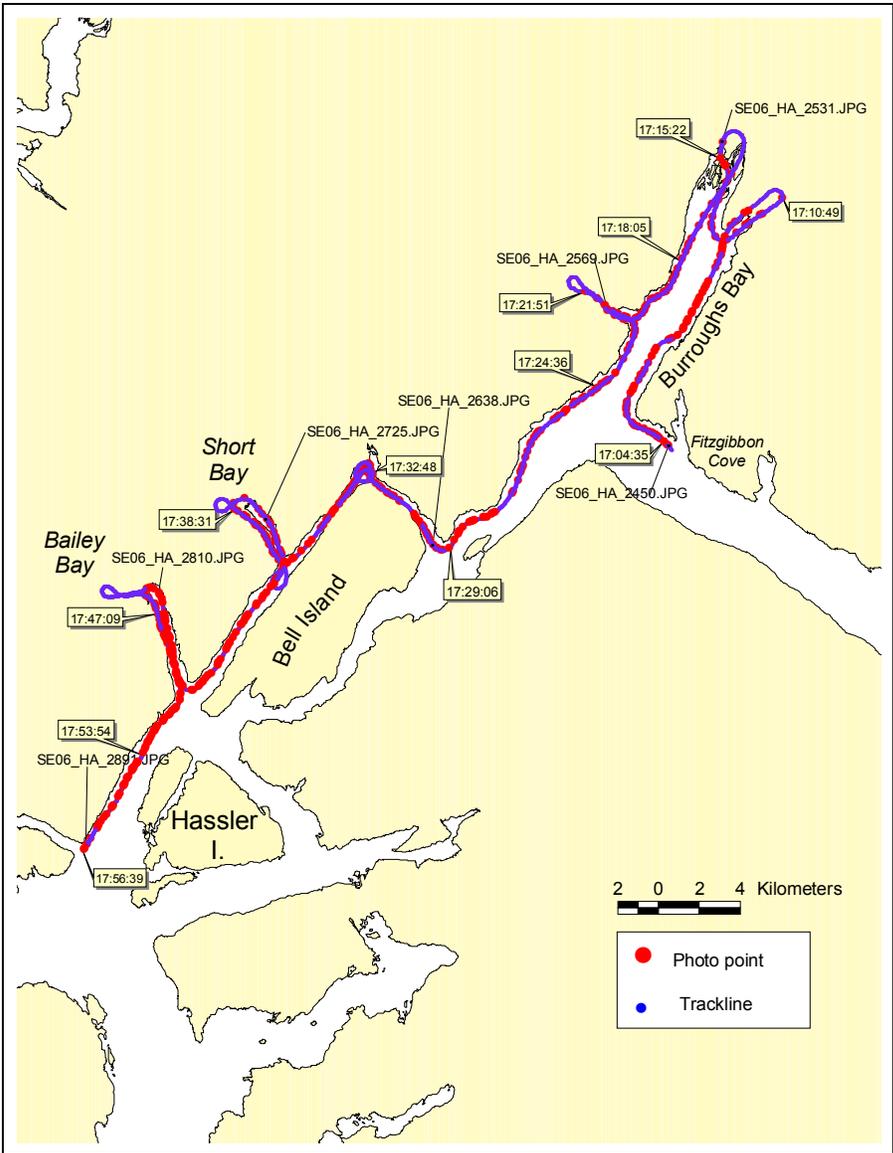


Figure 6. Location of Tape SE06_PF_06, 14 June 2006.

Tape: SE06_PF_06

Date: 14 June 06

General Location: Behm Canal, Burroughs Bay, Bell Arm

Time Start (UTC): 17:04:21

Geo: Borecky

Time End (UTC): 17:56:40

Bio: Anderson

Tape Length: 52:17

Nav: Borecky

Weather: Rainy, Drizzle...Tailwind.

Time (UTC)	Location	Photo
17:04:28	N. entrance to Fitzgibbon Cove	SE06_HA_2450
17:15:01	Head of Burroughs Bay	SE06_HA_2531
17:22:16	N. side Burroughs Bay, small Estuary	SE06_HA_2569
17:29:30	S. entrance to Anchor Pass	SE06_HA_2638
17:40:26	Short Bay	SE06_HA_2725
17:49:58	Bailey Bay	SE06_HA_2810
17:56:22	N. entrance to Yes Bay	SE06_HA_2890

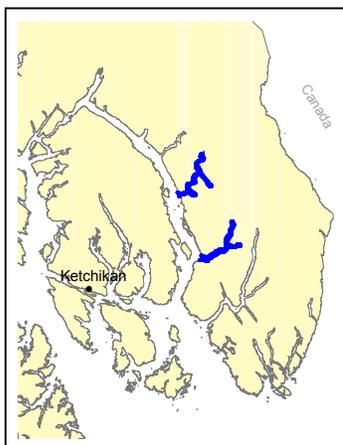
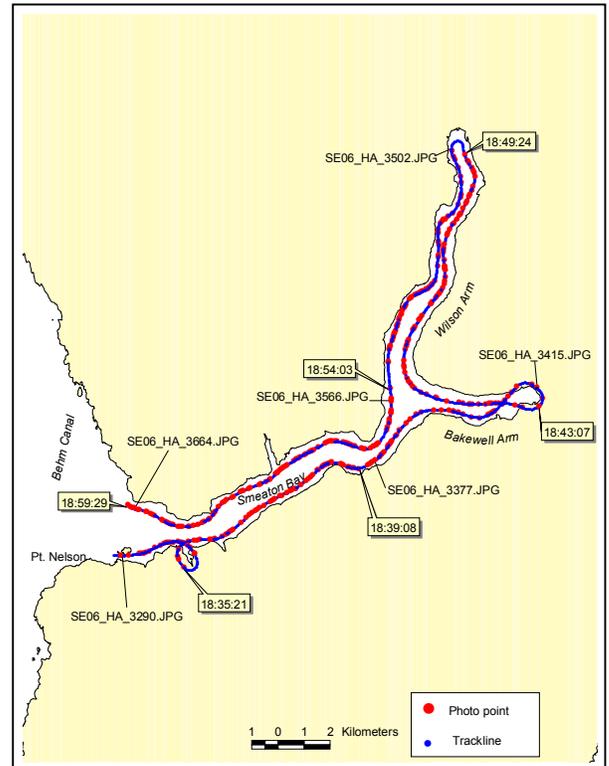
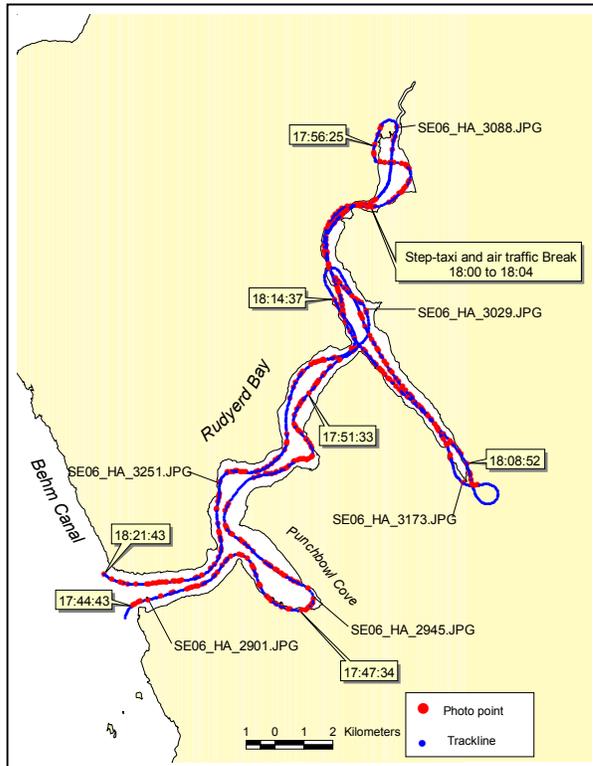


Figure 7. Location of Tape SE06_PF_07, 15 June 2006.

Tape: SE06_PF_07

Date: 15 June 06

General Location: Rudyerd Bay, Smeaton Bay

Time Start (UTC): 17:44:30
"Air Traffic" break in Rudyerd
Transit Rudyerd to Smeaton

Geo: Borecky
Bio: Anderson

Nav: Borecky

Time End (UTC): 18:59:29
Tape Length: 59:45

Weather: Rainy, Drizzle...Tailwind.

Time (UTC)	Location	Photo
17:44:57	S. entrance to Rudyerd Bay	SE06_HA_2901
17:47:45	Head of Punchbowl Cove	SE06_HA_2945
17:52:56	Entering N. arm of Rudyerd Bay	SE06_HA_3029
17:57:01	Head of N. arm of Rudyerd Bay	SE06_HA_3088
18:00:05 to 18:04:39	Break for Flightseeing air traffic	
18:10:15	Head of S. arm of Rudyerd Bay	SE06_HA_3173
18:18:41	Exiting Rudyerd Bay, north side	SE06_HA_3251
18:21:43 to 18:33:23	Transit from Rudyerd to Smeaton Bay	
18:33:30	Entrance to Smeaton Bay, Carp Island area	SE06_HA_3290
18:42:46	Head of Bakewell Arm	SE06_HA_3415
18:49:52	Head of Wilson Arm	SE06_HA_3502
18:59:22	Mouth of Smeaton Bay, north side	SE06_HA_3664

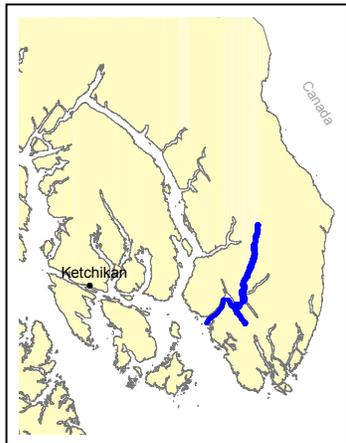
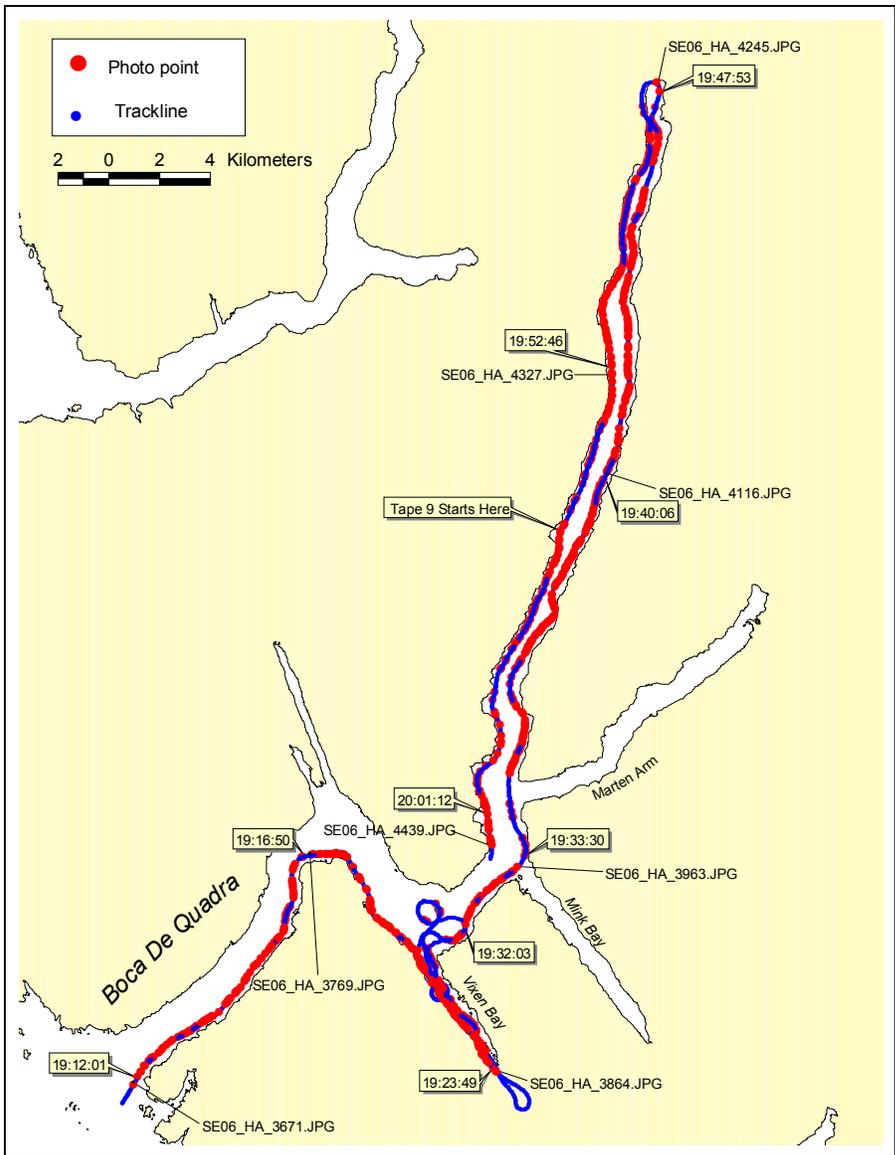


Figure 8. Location of Tape SE06_PF_08, 15 June 2006.

Tape: SE06_PF_08

Date: 15 June 06

General Location: Boca De Quadra

Time Start (UTC): 19:11:28

Geo: Borecky

Time End (UTC): 20:01:54

Bio: Anderson

Tape Length: 50:27

Nav: Borecky

Weather: Rainy, Drizzle...Tailwind.

NOTE! Losing tide towards tail end of this day. The section on Tape 8 from 19:55:52 onward is overlapped on Tape 9. in the upper western portion of Boca De Quadra

Time (UTC)	Location	Photo
19:11:52	S. entrance to Boca De Quadra	SE06_HA
19:23:45	Head of Vixen Bay	SE06_HA_3864
19:33:17	Entrance to Mink Bay	SE06_HA_3963
19:40:13	Half way up eastern side of upper Boca De Quadra	SE06_HA_4116
19:47:44	Head of Boca De Quadra	SE06_HA_4245
19:52:53	Half way up western side of upper Boca De Quadra	SE06_HA_4327
20:01:41	Entrance to upper Boca De Quadra, opposite Mink Bay	SE06_HA_4439

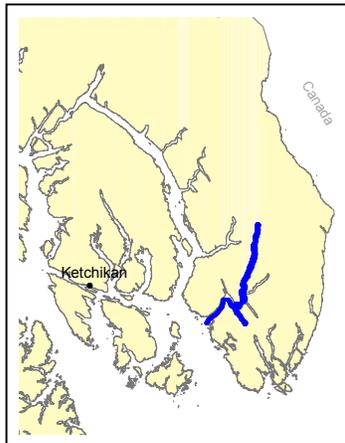
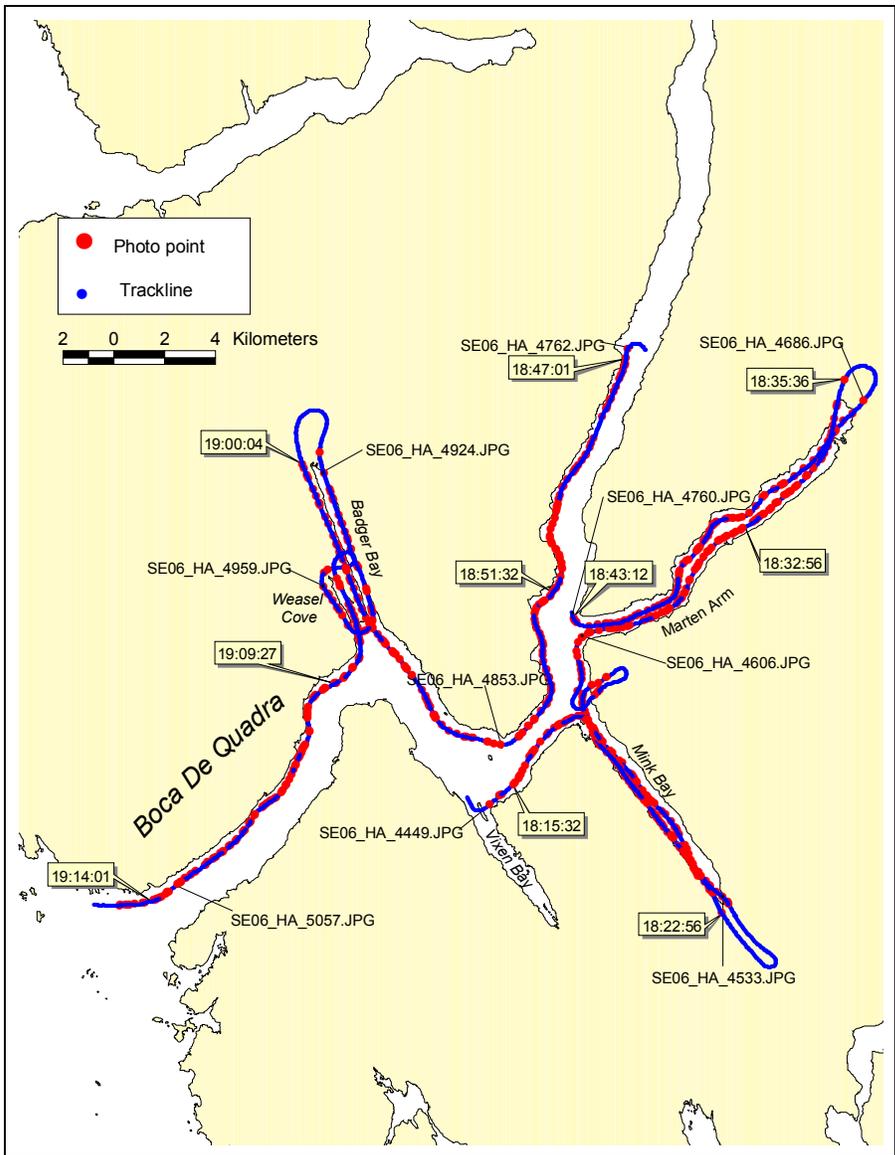


Figure 9. Location of Tape SE06_PF_09, 16 June 2006.

Tape: SE06_PF_09

Date: 16 June 06

General Location: Boca De Quadra

Time Start (UTC): 18:14:37
Transit up Boca de Quadra* 18:43:17 to 18:46:29 (30:41 tape time)

Geo: Borecky
Bio: Anderson

Time End (UTC): 19:14:53
Tape Length: 57:10

Nav: Borecky

Weather: High overcast...partly sunny at times

Time (UTC)	Location	Photo
18:15:04	Start, head of Vixen Bay	SE06_HA_4449
18:20:35	Head of Mink Bay	SE06_HA_4533
18:29:54	Mouth of Marten Arm, south side	SE06_HA_4606
18:36:57	Head of Marten Arm	SE06_HA_4687
18:43:17 to 18:46:29	Transit up Boca De Quadra	
18:46:52	Northwest side of upper Boca De Quadra	SE06_HA_4762
18:54:43	Porpoise Point	SE06_HA_4853
19:02:10	Head of Badger Bay	SE06_HA_4924
19:13:35	Mouth of Boca De Quadra, north side	SE06_HA_57

Part II: Team Sandlance 2, Helicopter

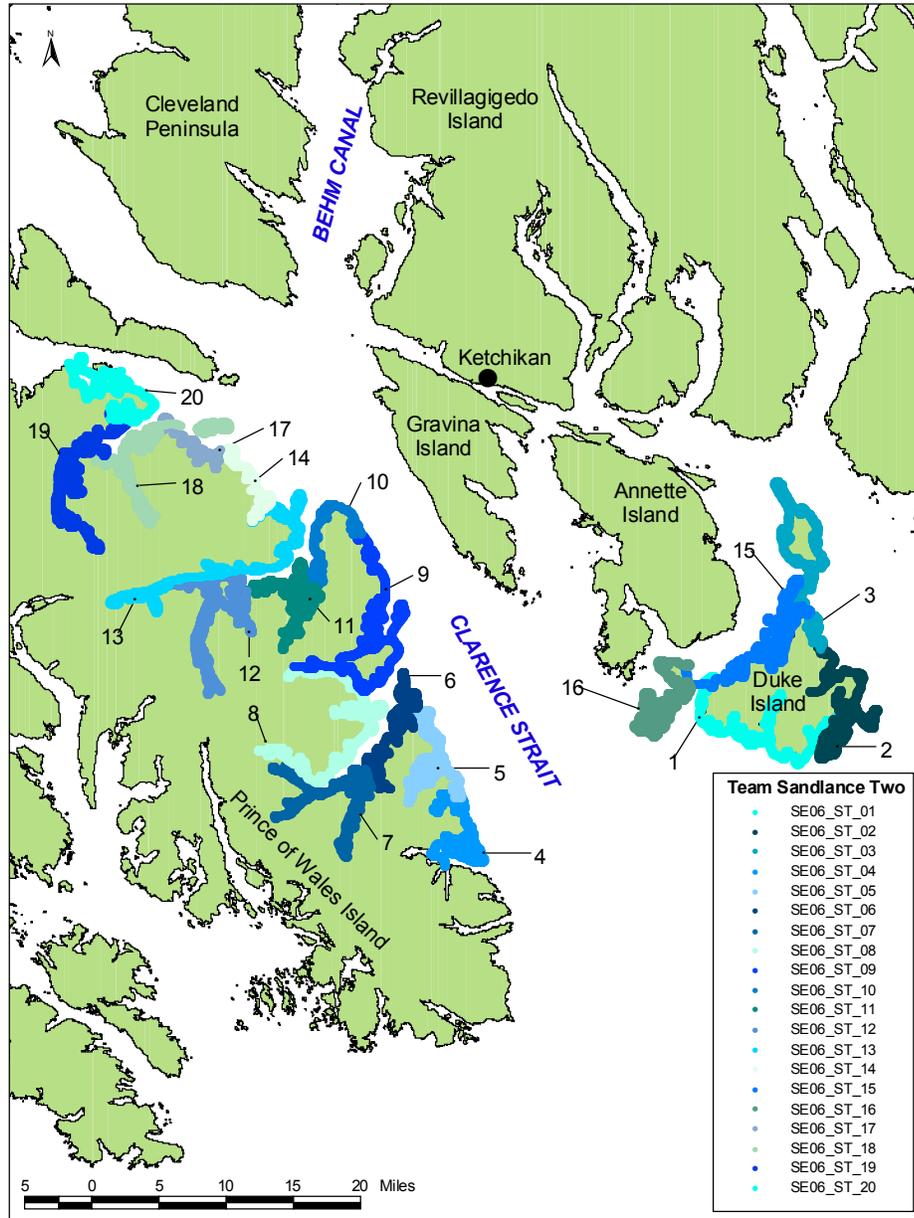


Figure B: Tape Locations of Sandlance 2 Survey Team



Figure 10. Location of Tape SE06_ST_01, 11 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_01 **Date:** 11 Jun 06

General Location: Mary and Duke Islands (southeast of Revillagigedo Island)

Time Start (UTC):	13:50:48	(2:40 elapsed)	Geo:	Harney
Fuel Break:	none		Bio:	Morris
Time End (UTC):	14:46:26	(58:17 elapsed)	Nav:	Ward
Tape Length:	56min, 37 sec		Pilot:	Hart

Weather: Sunny, clear, some wind and turbulence, occasional glare

Time (UTC)	Location	Photo
135048	Vegas Islands, NW Duke Island	SE06_MM_09004
140000	Point White, Duke Island	SE06_MM_09079
141600	Entrance to Hall Cove, Duke Island	SE06_MM_09242
142100	Lagoon, head of Hall Cove	SE06_MM_09287
143600	Cape Northumberland	SE06_MM_09417
144626	Hook Harbor, Duke Island	SE06_ML_09504

Note: No refuel or other tape breaks

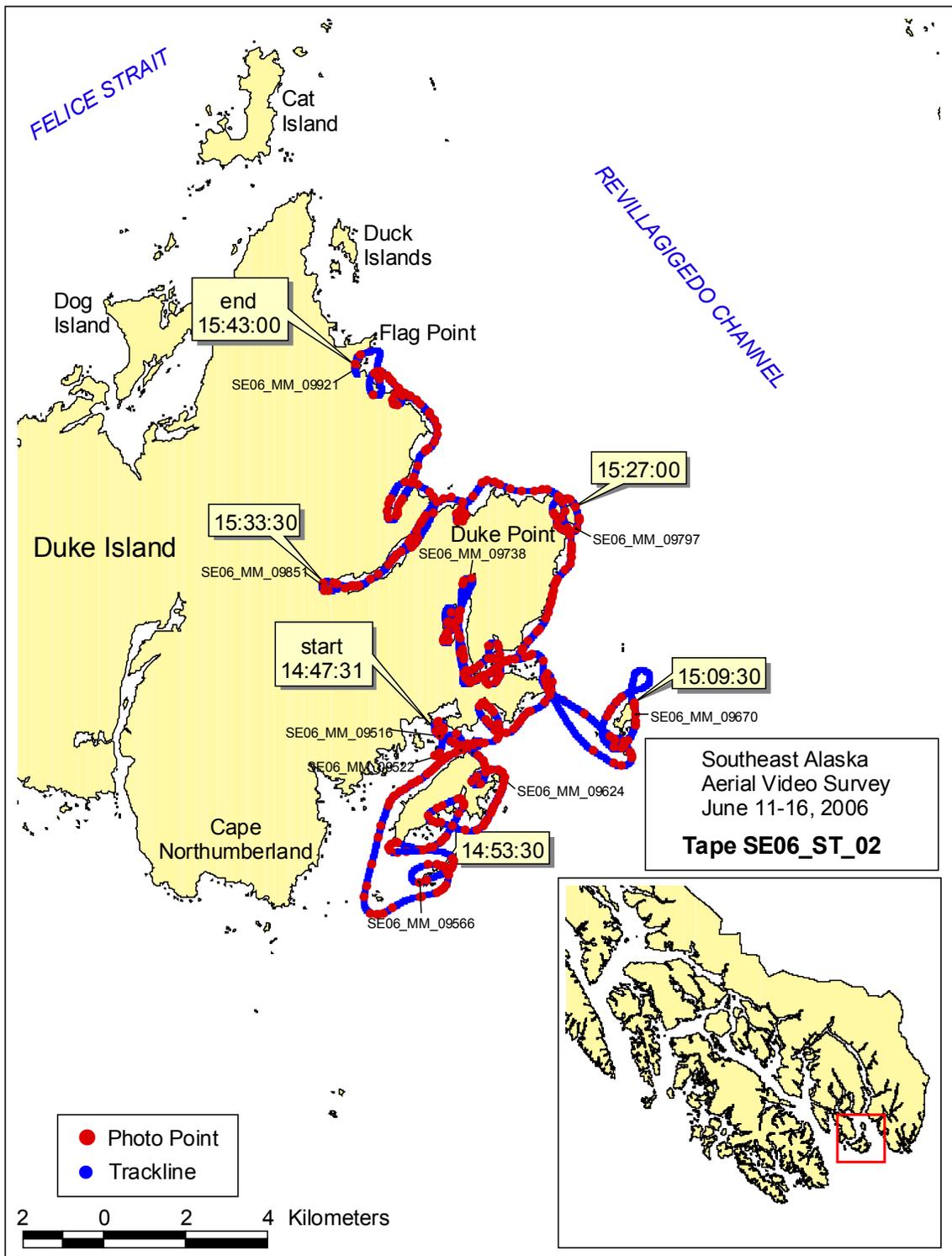


Figure 11. Location of Tape SE06_ST_02, 11 June 2006.

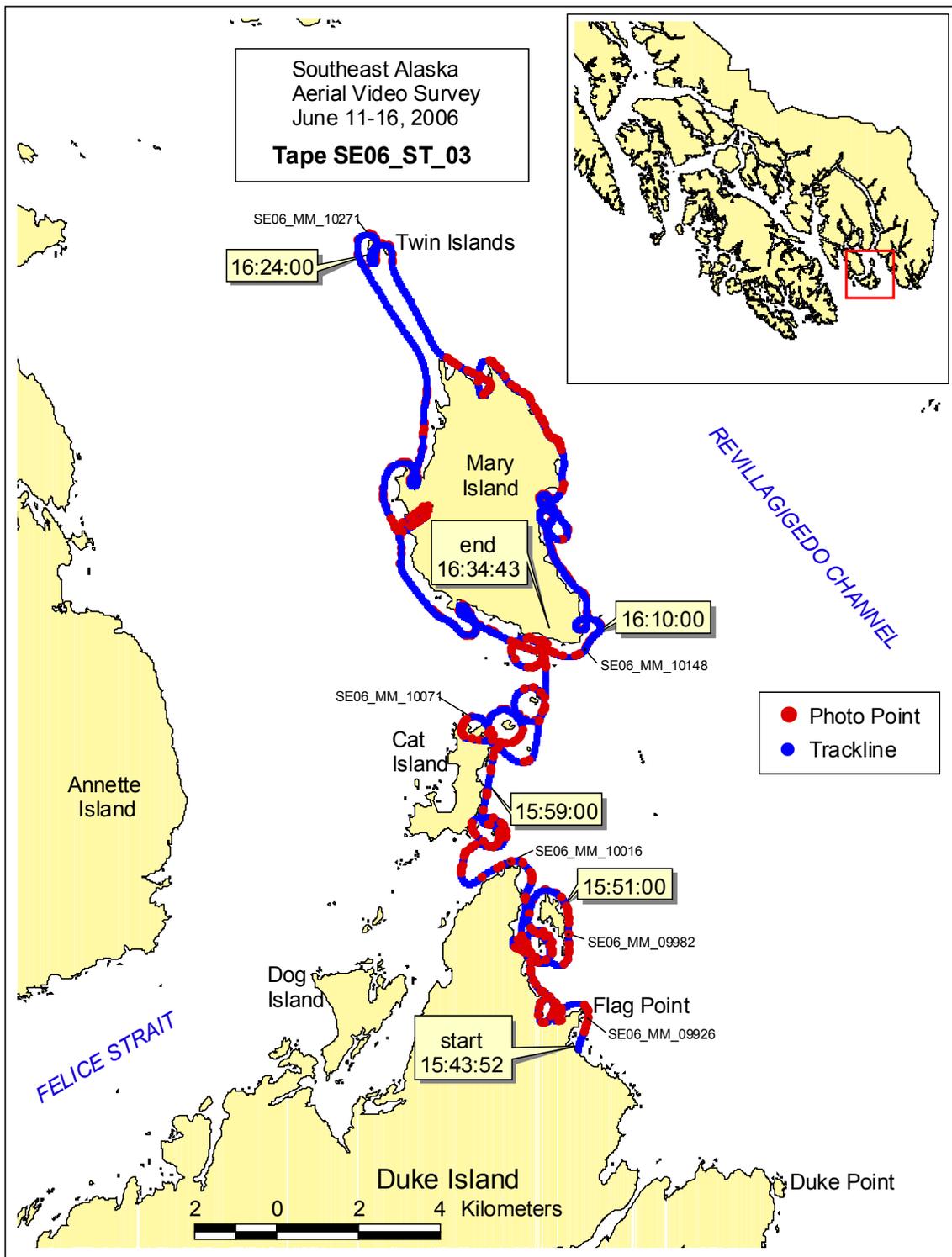


Figure 12. Location of Tape SE06_ST_03, 11 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_03 **Date:** 11 Jun 06

General Location: Mary and Duke Islands (southeast of Revillagigedo Island)

Time Start (UTC):	15:43:52	(2:01 elapsed)	Geo:	Harney
Fuel Break:	none		Bio:	Morris
Time End (UTC):	16:34:43	(52:52 elapsed)	Nav:	Ward
Tape Length:	50min, 51sec		Pilot:	Hart

Weather: Sunny, clear, some wind and turbulence, occasional glare

Time (UTC)	Location	Photo
154352	Flag Point, Duke Island	SE06_MM_09923
155100	Duck Islands, north tip Duke Island	SE06_MM_09983
155500	Grave Point, Duke Island	SE06_MM_10016
155900	East side Cat Island, north of Duke Island	SE06_MM_10058
160930	Edge Point, Mary Island	SE06_MM_10151
162330	Twin Islands, north of Mary Island	SE06_MM_10271
163443	Danger Island, south tip Mary Island	SE06_MM_10370

Note: No refuel or other tape breaks

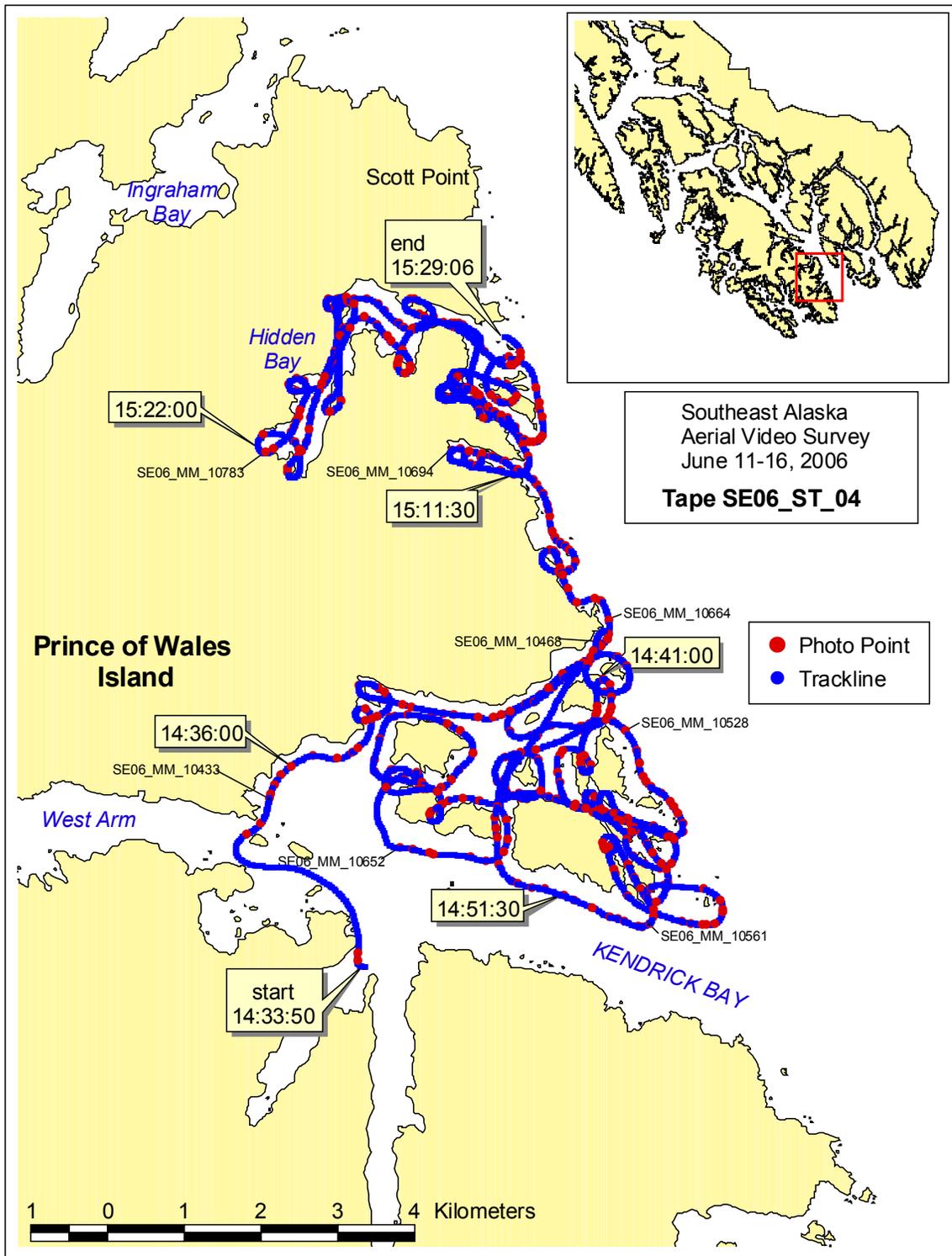


Figure 13. Location of Tape SE06_ST_04, 12 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_04 **Date:** 12 Jun 06

General Location: Kendrick Islands, Hidden Bay, (southeast Prince of Wales Island)

Time Start (UTC):	14:33:47	(04:24 elapsed)	Geo:	Harney
Fuel Break:	none		Bio:	Morris
Time End (UTC):	15:29:06	(57:43 elapsed)	Nav:	Ward
Tape Length:	53 min, 19 sec		Pilot:	Hart

Weather: Sunny, clear, some wind and turbulence, occasional glare

Time (UTC)	Location	Photo
14:33:50	West Arm, Kendrick Bay, Prince of Wales Island, (overlap May survey)	SE06_MM_10429
14:35:36	North side, Kendrick Bay,	SE06 MM 10432
14:41:00	North of Kendrick Bay Islands group	SE06 MM 10472
14:52:00	South of Kendrick Bay Islands group	SE06 MM 10561
15:18:15	Entrance to Hidden Bay	SE06 MM 10747
15:22:00	Head of Hidden Bay	SE06 MM 10783
15:29:06	Islet outside Hidden Bay	SE06 MM 10830

Note: No refuel or other tape breaks

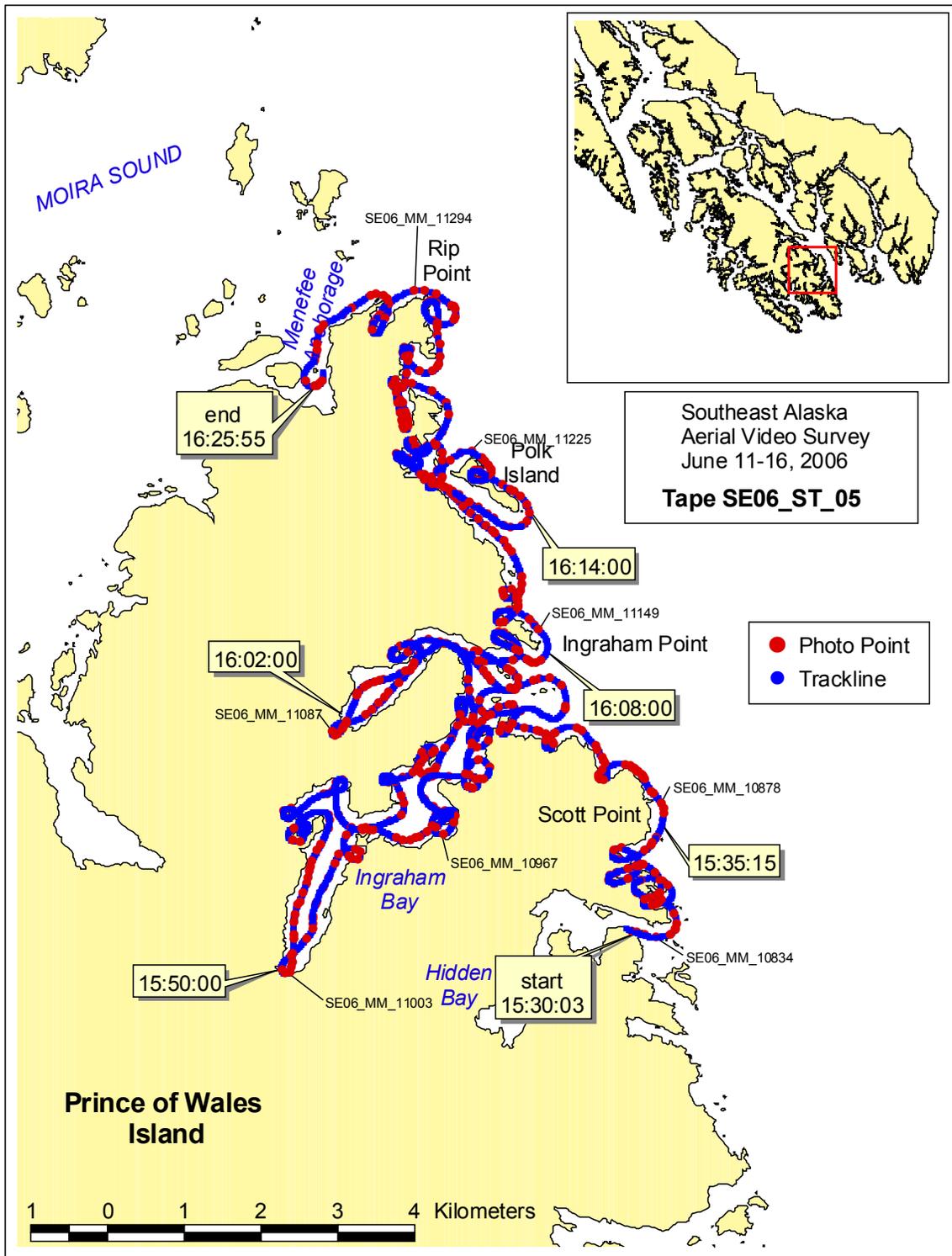


Figure 14. Location of Tape SE06_ST_05, 12 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_05 **Date:** 12 Jun 06

General Location: Ingraham Bay, entrance to Moira Sound (Prince of Wales Island)

Time Start (UTC):	15:30:03	(02:06 elapsed)	Geo:	Harney
Fuel Break:	none		Bio:	Morris
Time End (UTC):	16:25:55	(57:57 elapsed)	Nav:	Ward
Tape Length:	55 min, 51 sec		Pilot:	Hart

Weather: Sunny, clear, some wind and turbulence, occasional glare

Time (UTC)	Location	Photo
153003	Entrance to Hidden Bay	SE06_MM_10831
153515	Scott Point	SE06_MM_10878
154130	Entrance to Ingraham Bay	SE06_MM_10933
155000	Head of Ingraham Bay	SE06_MM_11002
160750	Ingraham Point	SE06_MM_11148
161400	Polk Island	SE06_MM_11210
162300	Rip Point	SE06_MM_11292
162555	Menefee Anchorage, entrance to Moira Sound	SE06_MM_11318

Note: No refuel or other tape breaks

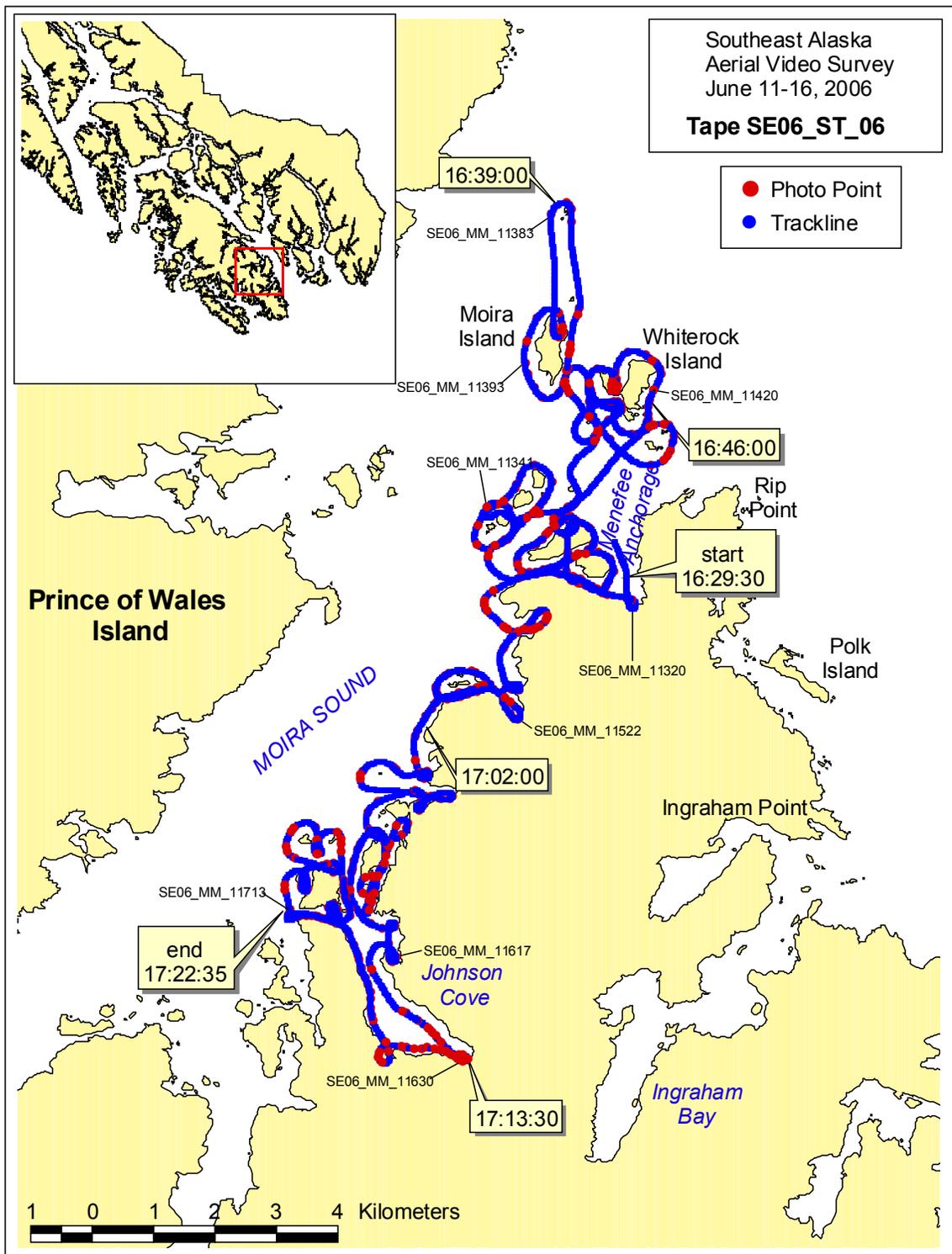


Figure 15. Location of Tape SE06_ST_04, 12 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_06 **Date:** 12 Jun 06

General Location: Entrance to Moira Sound, to Johnson Cove (southeast Prince of Wales Island)

Time Start (UTC): 16:28:29 (03:37 elapsed) **Geo:** Harney
Fuel Break: none **Bio:** Morris
Time End (UTC): 17:22:39 (57:47 elapsed) **Nav:** Ward
Tape Length: 54 min, 10 sec **Pilot:** Hart

Weather: Sunny, clear, some wind and turbulence, occasional glare

Time (UTC)	Location	Photo
162930	Menefee Anchorage	SE06 MM 11321
163900	Moira Rock, entrance to Moira Sound	SE06 MM 11379
164100	Moira Island, entrance to Moira Sound	SE06 MM 11391
164600	Whiterock Island, entrance to Moira Sound	SE06 MM 11422
171000	Entrance to Johnson Cove	SE06 MM 11608
171330	Head of Johnson Cove	SE06 MM 11630
172235	Entrance to Johnson Cove	SE06 MM 11714

Note: No refuel or other tape breaks

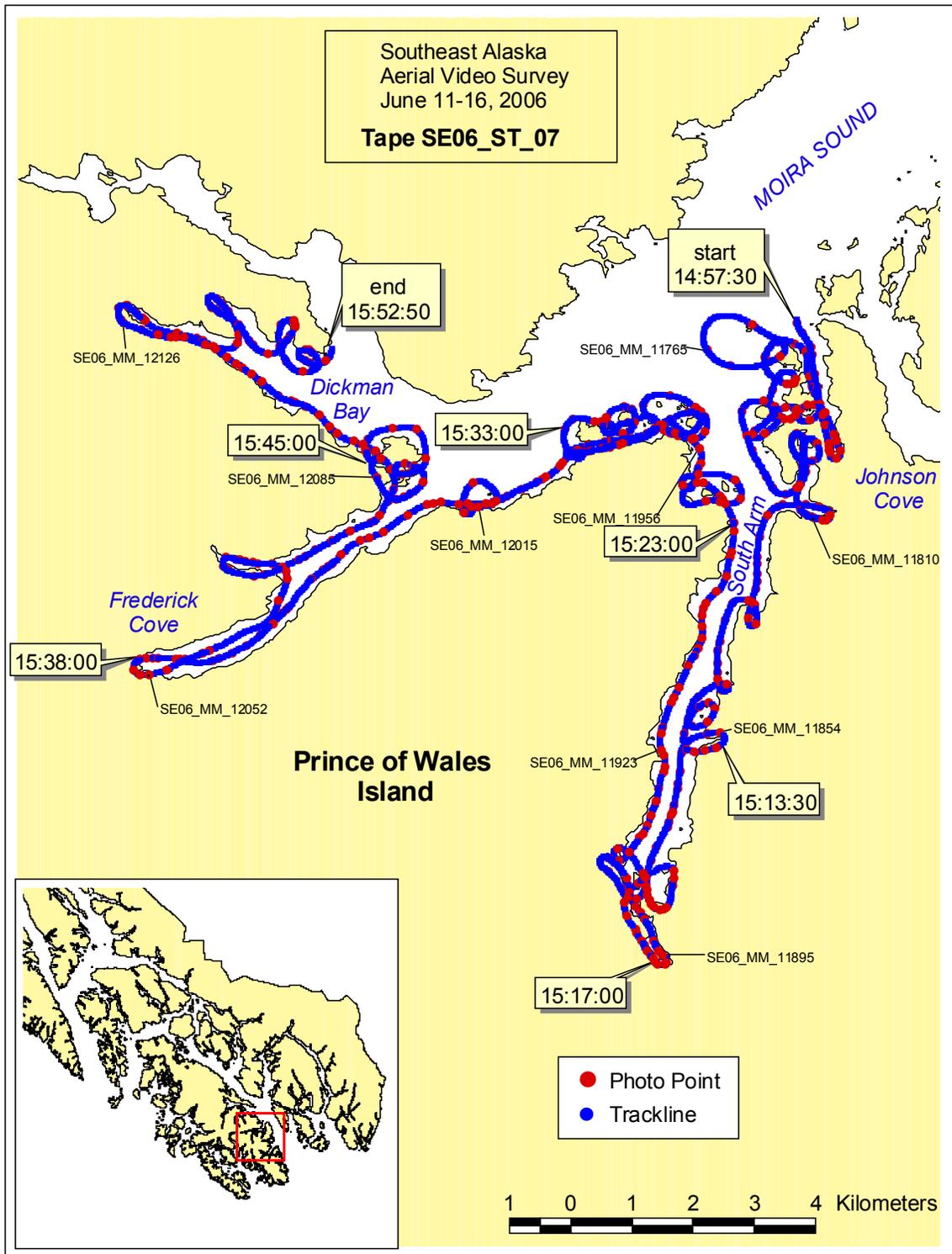


Figure 16. Location of Tape SE06_ST_07, 13 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_07 **Date:** 13 Jun 06

General Location: South and West Arms, Moira Sound (southeast Prince of Wales Island)

Time Start (UTC):	14:57:32	(02:25 elapsed)	Geo:	Harney
Fuel Break:		none	Bio:	Morris
Time End (UTC):	15:52:55	(57:47 elapsed)	Nav:	Ward
Tape Length:		55 min, 22 sec	Pilot:	Hart

Weather: Completely fogged in over Duke and Percy Islands and south; across Clarence Strait high fog, low ceiling, overcast

Time (UTC)	Location	Photo
145730	East side entrance to South Arm, Moira Sound	SE06 MM 11736
151700	Head of South Arm, Moira Sound	SE06 MM 11892
152700	West side entrance to South Arm, Moira Sound	SE06 MM 11966
153300	entrance to West Arm, Moira Sound	SE06 MM 12006
153830	Head of Frederick Cove	SE06 MM 12049
154500	Entrance to Dickman Bay	SE06 MM 12096
155250	End tape Dickman Bay	SE06 MM 12160

Note: No refuel or other tape breaks

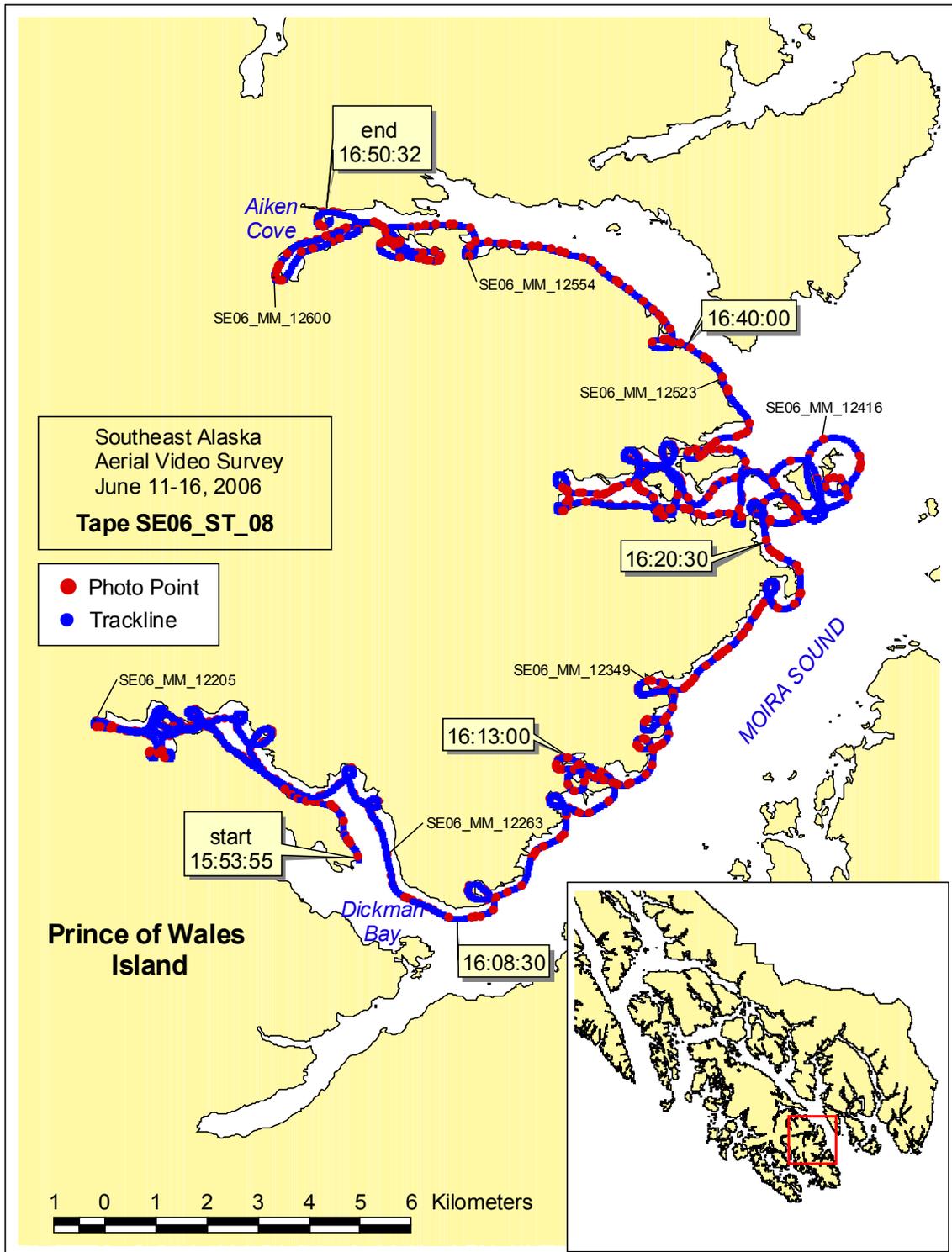


Figure 17. Location of Tape SE06_ST_08, 13 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_08 **Date:** 13 Jun 06

General Location: Dickman Bay, Niblack Anchorage, North Arm, Moira Sound (southeast Prince of Wales Island)

Time Start (UTC):	15:53:54	(02:11 elapsed)	Geo:	Harney
Fuel Break:	none		Bio:	Morris
Time End (UTC):	16:50:41	(58:58 elapsed)	Nav:	Ward
Tape Length:	56 min, 47 sec		Pilot:	Hart

Weather: Completely fogged in over Duke and Percy Islands and south; across Clarence Strait high fog, low ceiling, overcast

Time (UTC)	Location	Photo
155355	Dickman Bay	SE06_MM_12161
160830	North side entrance to Dickman Bay	SE06_MM_12275
162030	Entrance to Niblack Anchorage, Moira Sound	SE06_MM_12383
162600	Egg Island, Moira Sound	SE06_MM_12416
164000	Entrance to North Arm, Moira Sound	SE06_MM_12524
164400	Entrance to Aiken Cove	SE06_MM_12566
165032	Head of Aiken Cove	SE06_MM_12614

Note: No refuel or other tape breaks

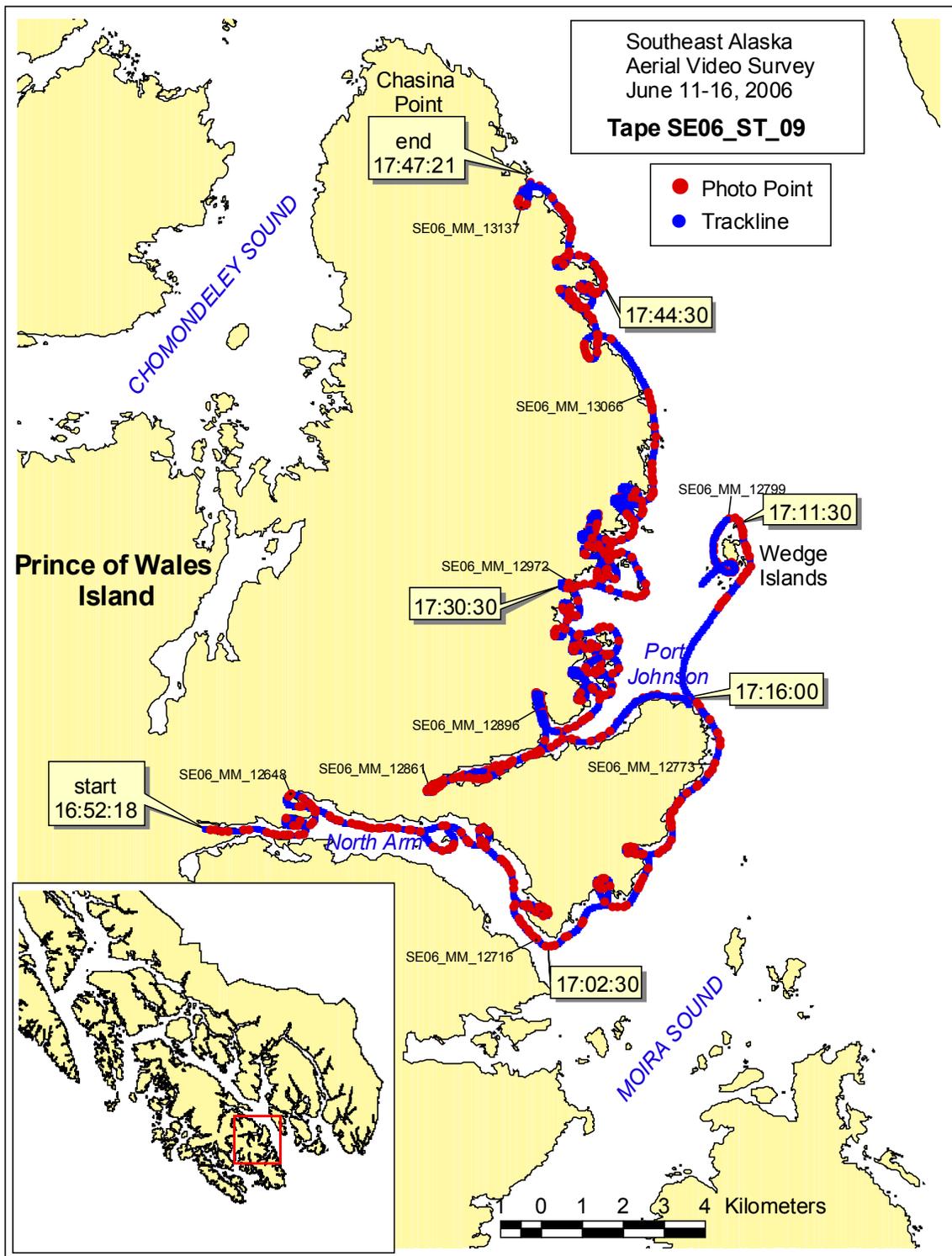


Figure 18. Location of Tape SE06_ST_09, 13 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_09 **Date:** 13 Jun 06

General Location: North Arm, Moira Sound, Port Johnson, to S. Chasina (southeast Prince of Wales Island)

Time Start (UTC): 16:52:13 (02:22 elapsed) **Geo:** Harney
Fuel Break: none **Bio:** Morris
Time End (UTC): 17:47:21 (elapsed) **Nav:** Ward
Tape Length: 51 min, 39 sec **Pilot:** Hart

Weather: Completely fogged in over Duke and Percy Islands and south; across Clarence Strait high fog, low ceiling, overcast

Time (UTC)	Location	Photo
165218	Outlet to Miller Lake, Aiken Cove	SE06_MM_12624
165800 - 165834	Short transit	
170230	Entrance to North Arm, Moira Sound	SE06_MM_12716
171130	Wedge Islands	SE06_MM_12798
171313-171510	Short transit	
171600	Entrance to Port Johnson	SE06_MM_12827
171900	Head of Port Johnson	SE06_MM_12862
173030	French Harbor	SE06_MM_12973
174430	Windy Point	SE06_MM_13102
174721	South of Chasina Point	SE06_MM_13139

Note:

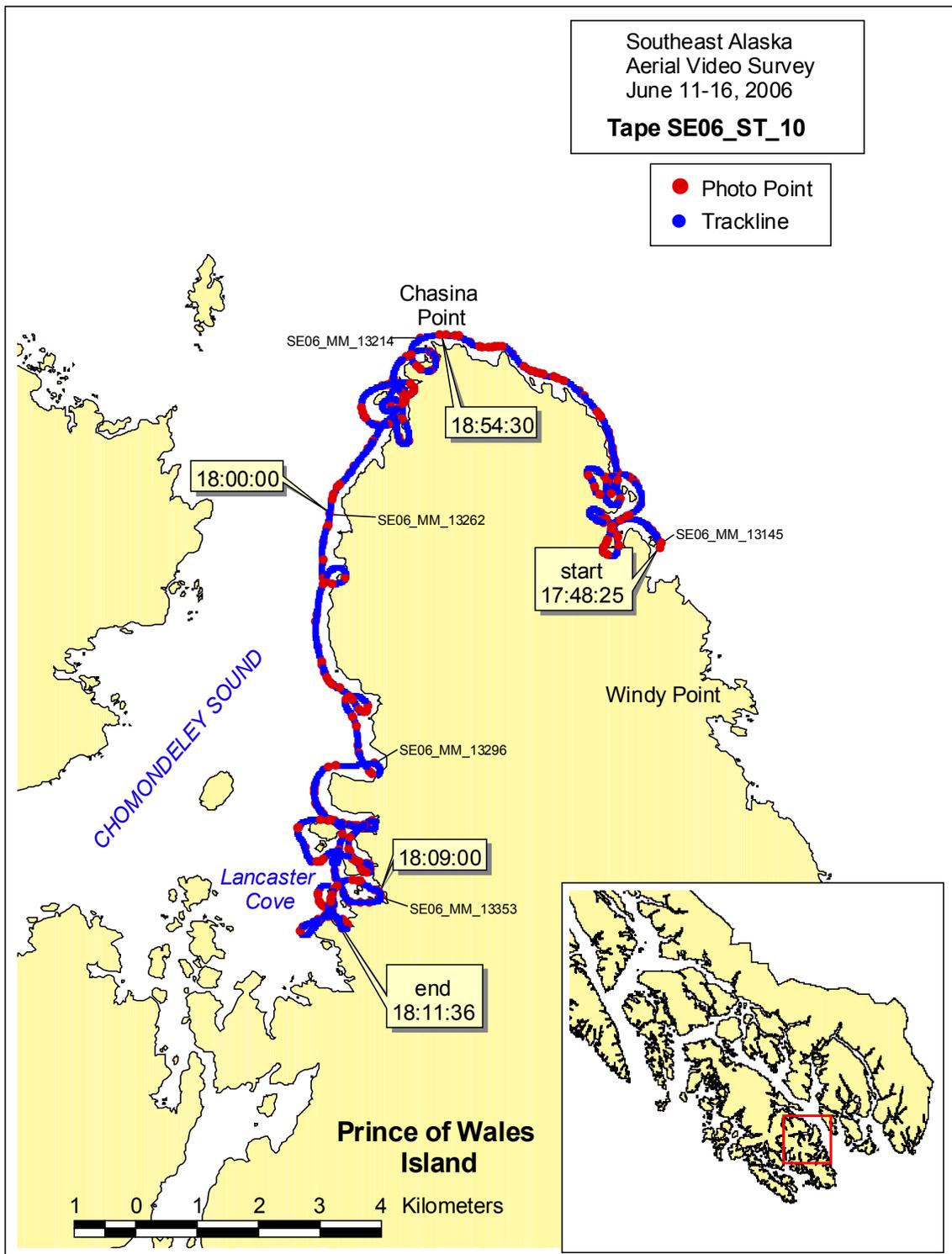


Figure 19. Location of Tape SE06_ST_10, 12 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_10 **Date:** 13 Jun 06

General Location: Chasina Point, entrance to Cholmondeley Sound (southeast Prince of Wales Island)

Time Start (UTC): 17:48:25 (02:00 elapsed) **Geo:** Harney
Fuel Break: none **Bio:** Morris
Time End (UTC): 18:11:42 (25:17 elapsed) **Nav:** Ward
Tape Length: 23 min, 17 sec **Pilot:** Hart

Weather: Completely fogged in over Duke and Percy Islands and south; across Clarence Strait high fog, low ceiling, overcast

Time (UTC)	Location	Photo
174825	South of Chasina Point	SE06_MM_13144
175430	Chasina Point	SE06_MM_13212
180000	Entrance to Cholmondeley Sound	SE06_MM_13264
180904	Lancaster Cove	SE06_MM_13353
181136	End in Lancaster Cove	SE06_MM_13386

Note: No refuel or other tape breaks

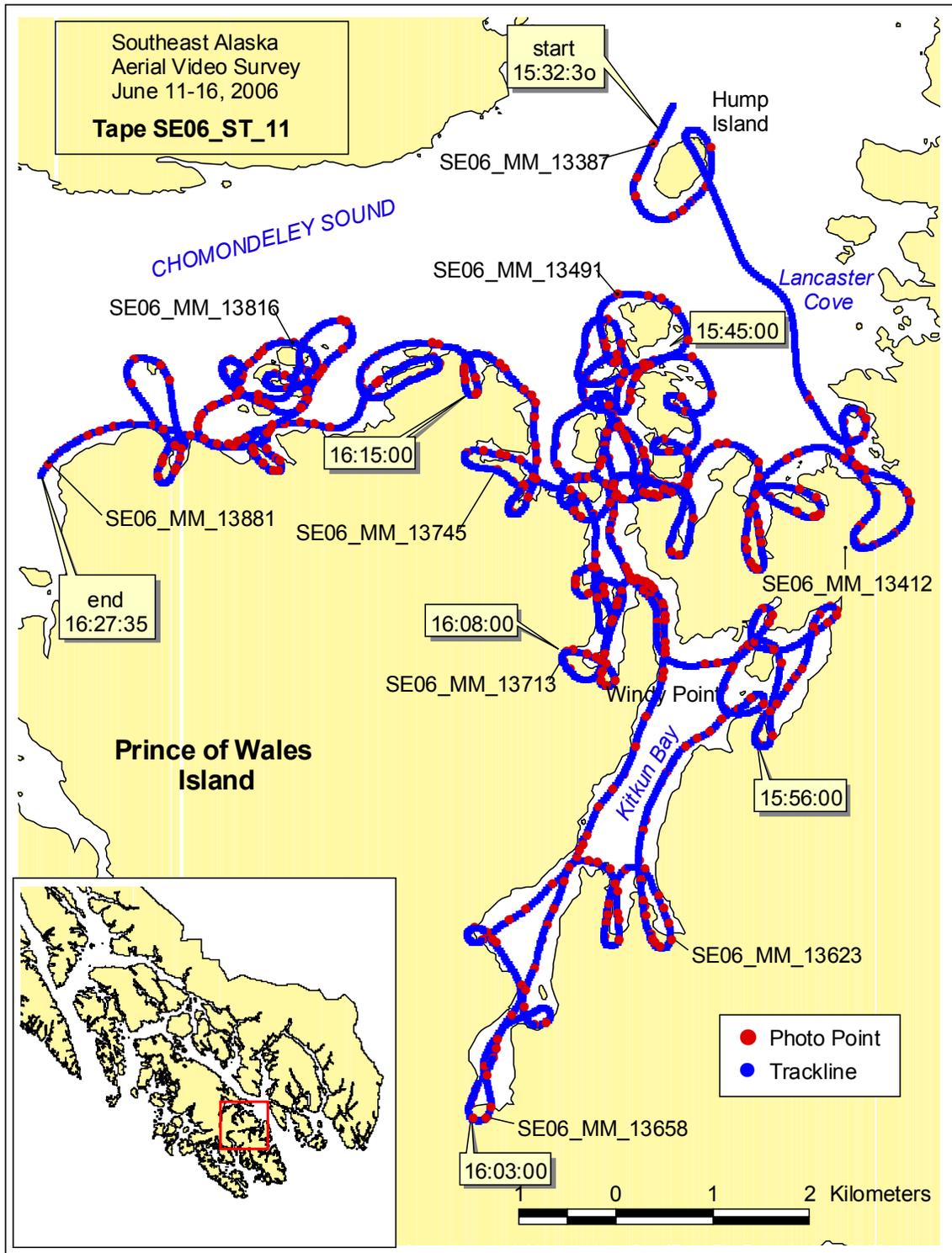


Figure 20. Location of Tape SE06_ST_11, 12 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_11 **Date:** 14 Jun 06

General Location: Lancaster Cove, Kitkun Bay, Cholmondeley Sound (southeast Prince of Wales Island)

Time Start (UTC): 15:32:15 **Geo:** Harney
Fuel Break: none **Bio:** Morris
Time End (UTC): 16:27:39 **Nav:** Ward
Tape Length: 55 min, 24 sec **Pilot:** Hart

Weather: Percy Islands and south were completely fogged in; across Clarence Strait high fog and clouds, rain, overcast, windy and turbulent.

Time (UTC)	Location	Photo
153230	Hump Island, Cholmondeley Sound	SE06_MM_13387
153730	Lancaster Cove	SE06_MM_13415
154500	Babe Islands, Cholmondeley Sound	SE06_MM_13478
155300	Entrance to Kitkun Bay	SE06_MM_13556
160300	Head of Kitkun Bay	SE06_MM_13654
160800	Smaller west bay of Kitkun Bay	SE06_MM_13704
161430	Cholmondeley Sound	SE06_MM_13752
162735	Entrance to Dora Sound	SE06_MM_13881

Note: No refuel or other tape breaks

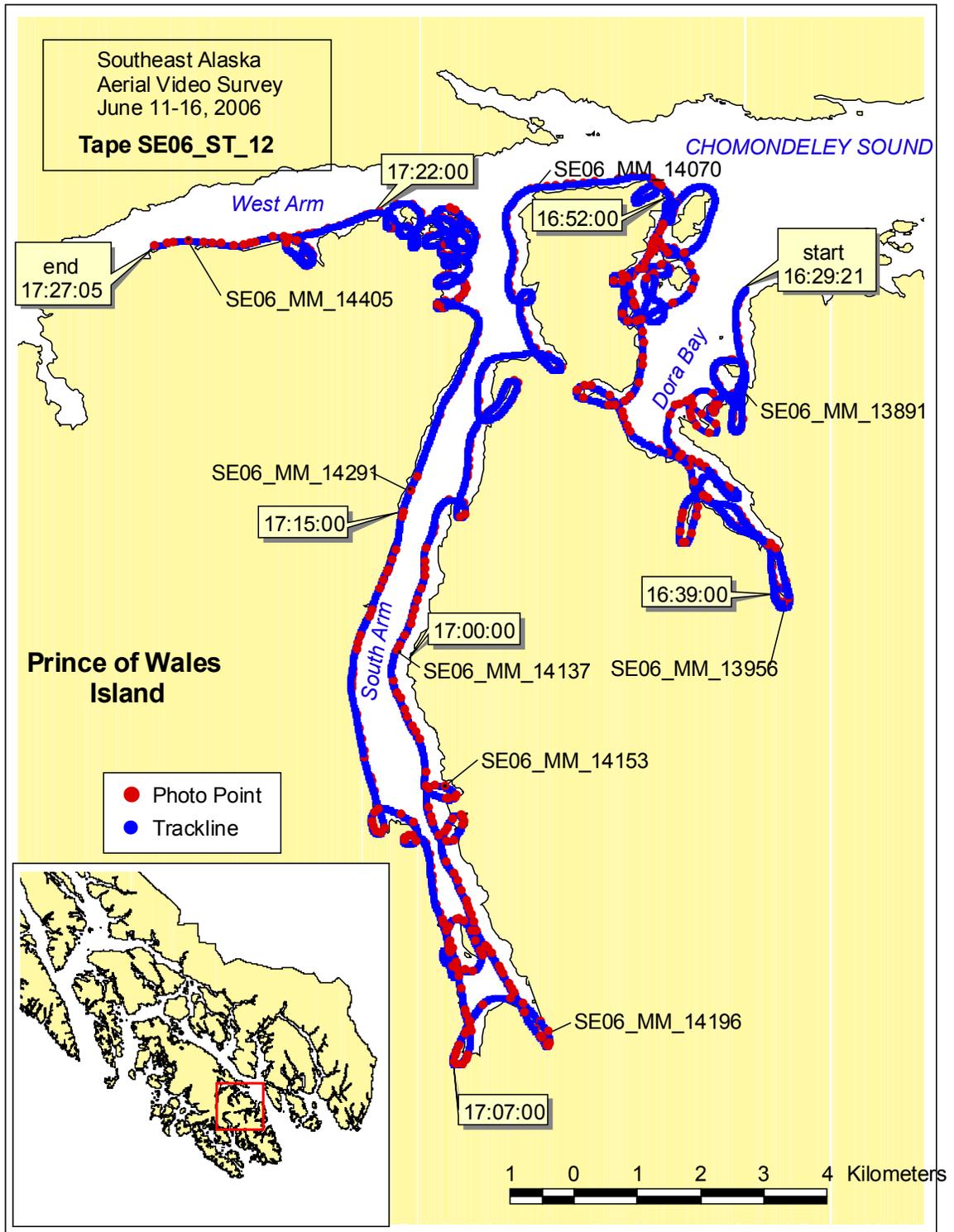


Figure 21. Location of Tape SE06_ST_12, 14 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_12 **Date:** 14 Jun 06

General Location: South and West Arms, Cholmondeley Sound (southeast Prince of Wales Island)

Time Start (UTC): 16:29:19 **Geo:** Harney
Fuel Break: none **Bio:** Morris
Time End (UTC): 17:27:05 **Nav:** Ward
Tape Length: 57 min, 46 sec **Pilot:** Hart

Weather: Percy Islands and south were completely fogged in; across Clarence Strait high fog and clouds, rain, overcast, windy and turbulent.

Time (UTC)	Location	Photo
162921	Entrance to Dora Bay	SE06_MM_13882
163237	Set down in Dora Bay, stop track	
163530	Resume track	
163900	Head of Dora Bay	SE06_MM_13957
165200	Divide Head, Cholmondeley Sound	SE06_MM_14059
170000	Midway E. side South Arm	SE06_MM_14137
170700	Head of South Arm	SE06_MM_14212
171500	Midway W. side South Arm	SE06_MM_14290
172200	Entrance to West Arm, Cholmondeley Sound	SE06_MM_14356
172705	End on S. side of West Arm	SE06_MM_14408

Note: trackline repair required 16:32:37 to 16:35:29

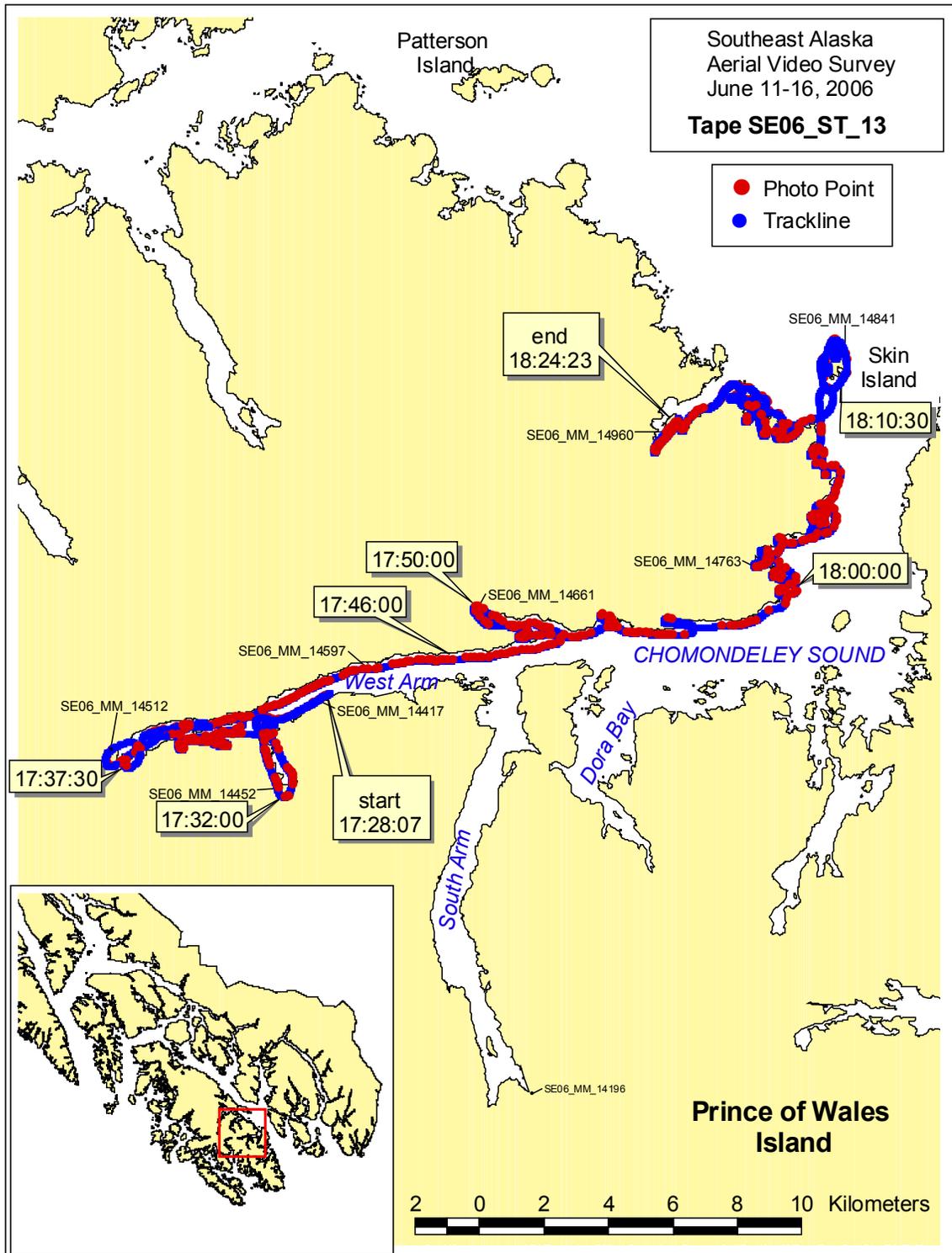


Figure 22. Location of Tape SE06_ST_13, 14 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_13 **Date:** 14 Jun 06

General Location: West Arm, Cholmondeley Sound, to Clover Bay (southeast Prince of Wales Island)

Time Start (UTC): 17:28:03 **Geo:** Harney
Fuel Break: none **Bio:** Morris
Time End (UTC): 18:24:35 **Nav:** Ward
Tape Length: 56 min, 32 sec **Pilot:** Hart

Weather: Percy Islands and south were completely fogged in; across Clarence Strait high fog and clouds, rain, overcast, windy and turbulent.

Time (UTC)	Location	Photo
172807	Start S. side West Arm, Cholmondeley Sound	SE06_MM_14413
173200	Big Creek	SE06_MM_14460
173730	Head of West Arm	SE06_MM_14519
174600	N. side, entrance to West Arm	SE06_MM_14614
175000	Head of Sunny Cove	SE06_MM_14664
180000	Entrance to Cholmondeley Sound	SE06_MM_14756
181030	Skin Island	SE06_MM_14841
182423	End head of Clover Bay	SE06_MM_14975

Note: No refuel or other tape breaks

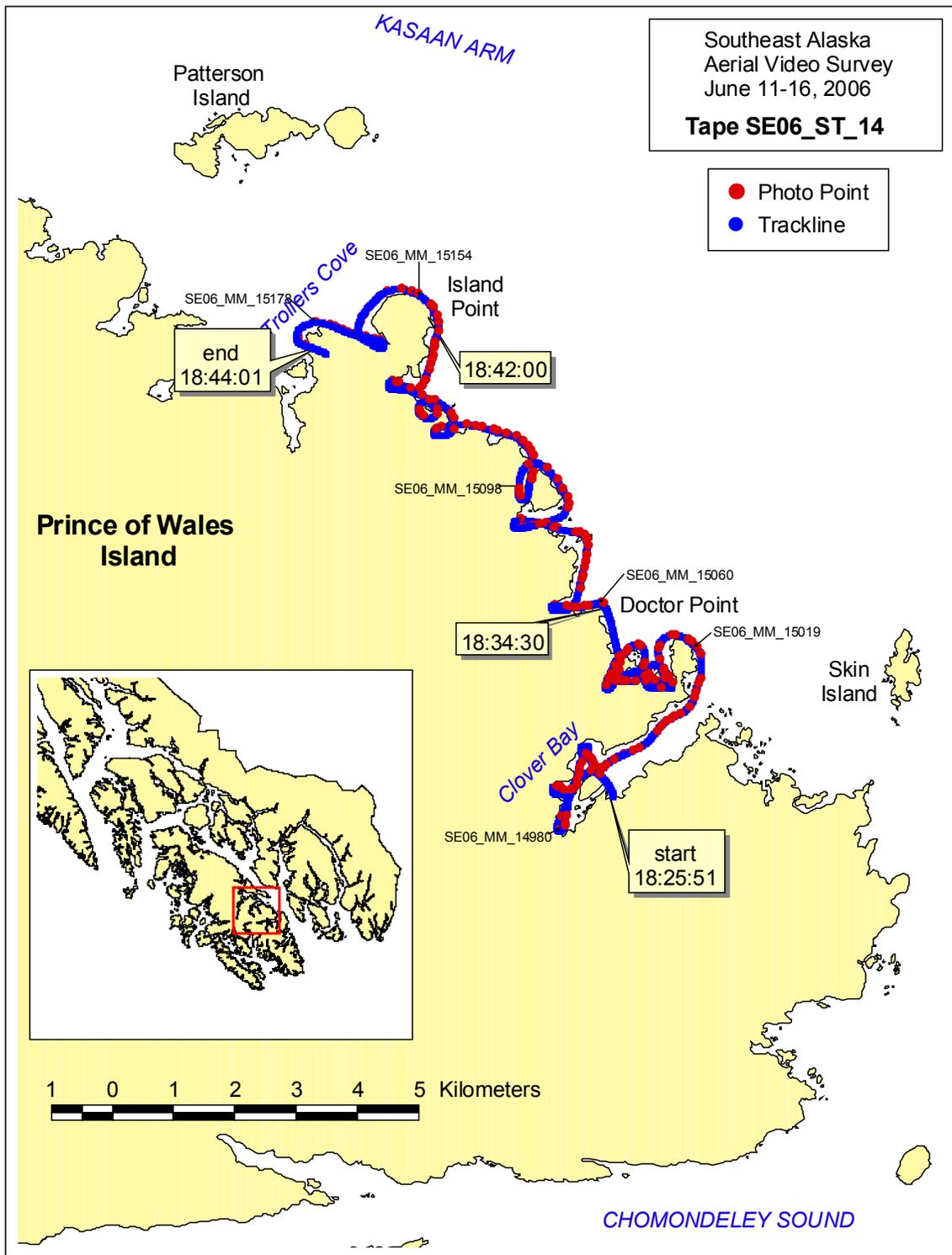


Figure 23. Location of Tape SE06_ST_14, 14 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_14 **Date:** 14 Jun 06

General Location: Clover Bay to Trollers Cove (southeast Prince of Wales Island)

Time Start (UTC):	18:25:33	Geo:	Harney
Fuel Break:	none	Bio:	Morris
Time End (UTC):	18:44:15	Nav:	Ward
Tape Length:	18 min, 42 sec	Pilot:	Hart

Weather: Percy Islands and south were completely fogged in; across Clarence Strait high fog and clouds, rain, overcast, windy and turbulent.

Time (UTC)	Location	Photo
182551	Start head of Clover Bay	SE06 MM 14976
183430	Doctor Point	SE06 MM 15060
184200	Island Point	SE06 MM 15156
184401	End entrance to Trollers Cove	SE06 MM 15181

Note: No refuel or other tape breaks

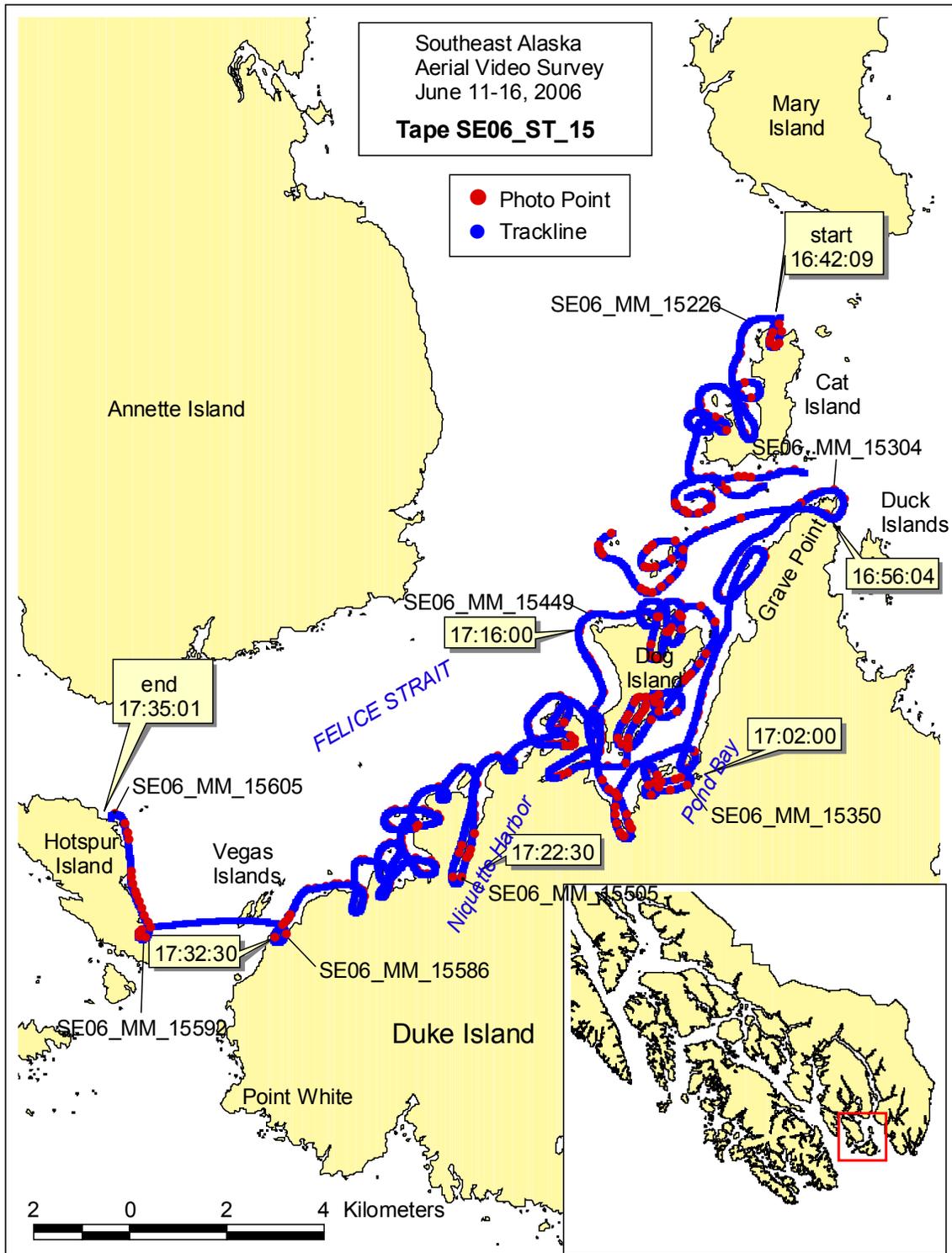


Figure 24. Location of Tape SE06_ST_15, 15 June 2006.

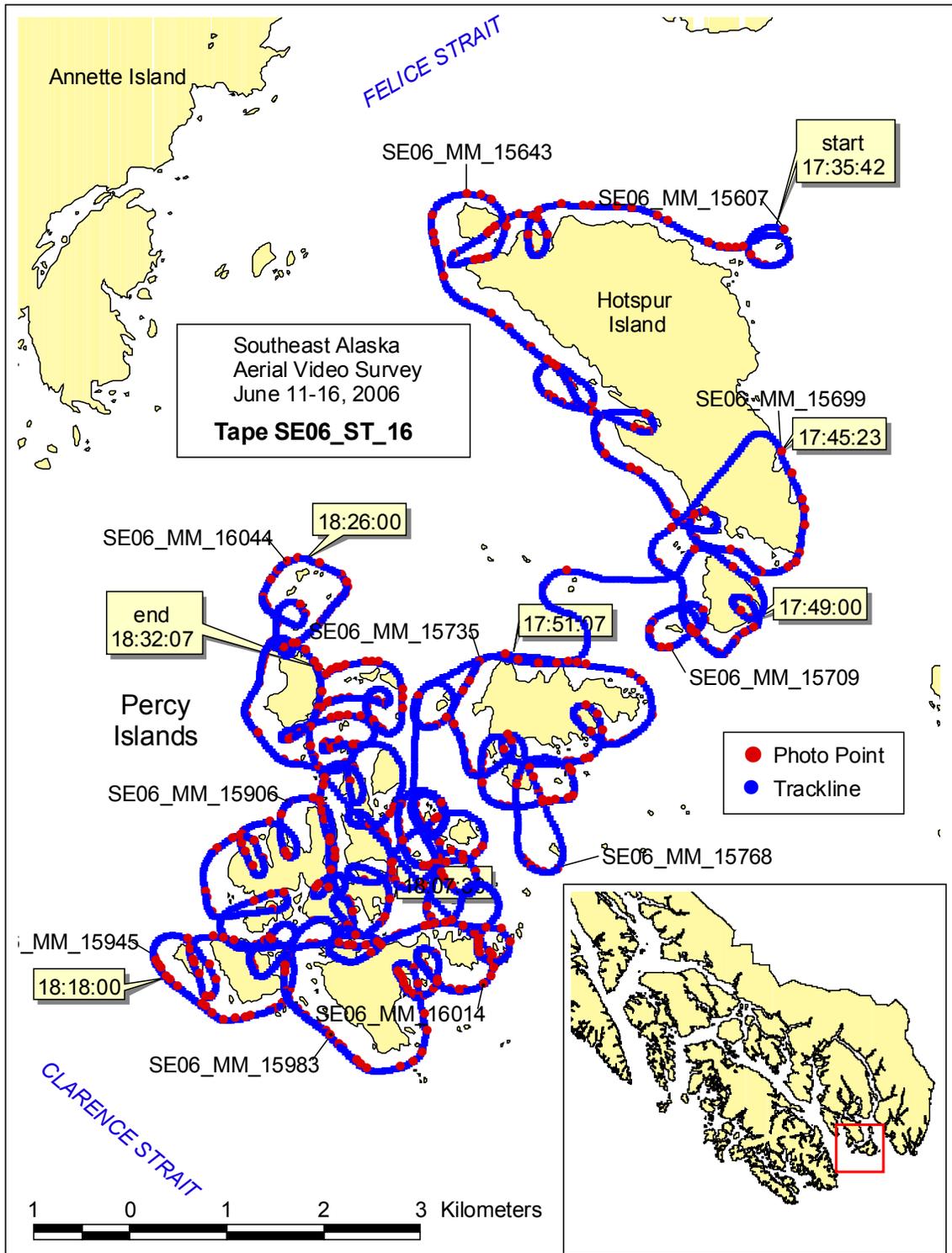


Figure 25. Location of Tape SE06_ST_16, 15 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_16 **Date:** 15 Jun 06

General Location: Hotspur Island, Percy Islands group (southeast of Revillagigedo Island)

Time Start (UTC): 17:35:42 **Geo:** Harney

Fuel Break: none **Bio:** Morris

Time End (UTC): 18:32:07 **Nav:** Ward

Tape Length: 56 min, 25 sec **Pilot:** Hart

Weather: Rain, very windy and turbulent (especially at Percy); across Clarence high fog, clouds, rain, overcast, very windy and turbulent.

Time (UTC)	Location	Photo
173542	Start E. side Hotspur Island	SE06_MM_15607
174523	Complete Hotspur Island	SE06_MM_15699
174900	Werlick Island	SE06_MM_15724
175107	Easternmost island of Percy group	SE06_MM_15732
180730	central bay in Percy group	SE06_MM_15874
181800	Percy Point	SE06_MM_15950
182430	Cow Island, north side of Percy group	SE06_MM_16024
183207	End of Percy group	SE06_MM_16115

Note: No refuel or other tape breaks

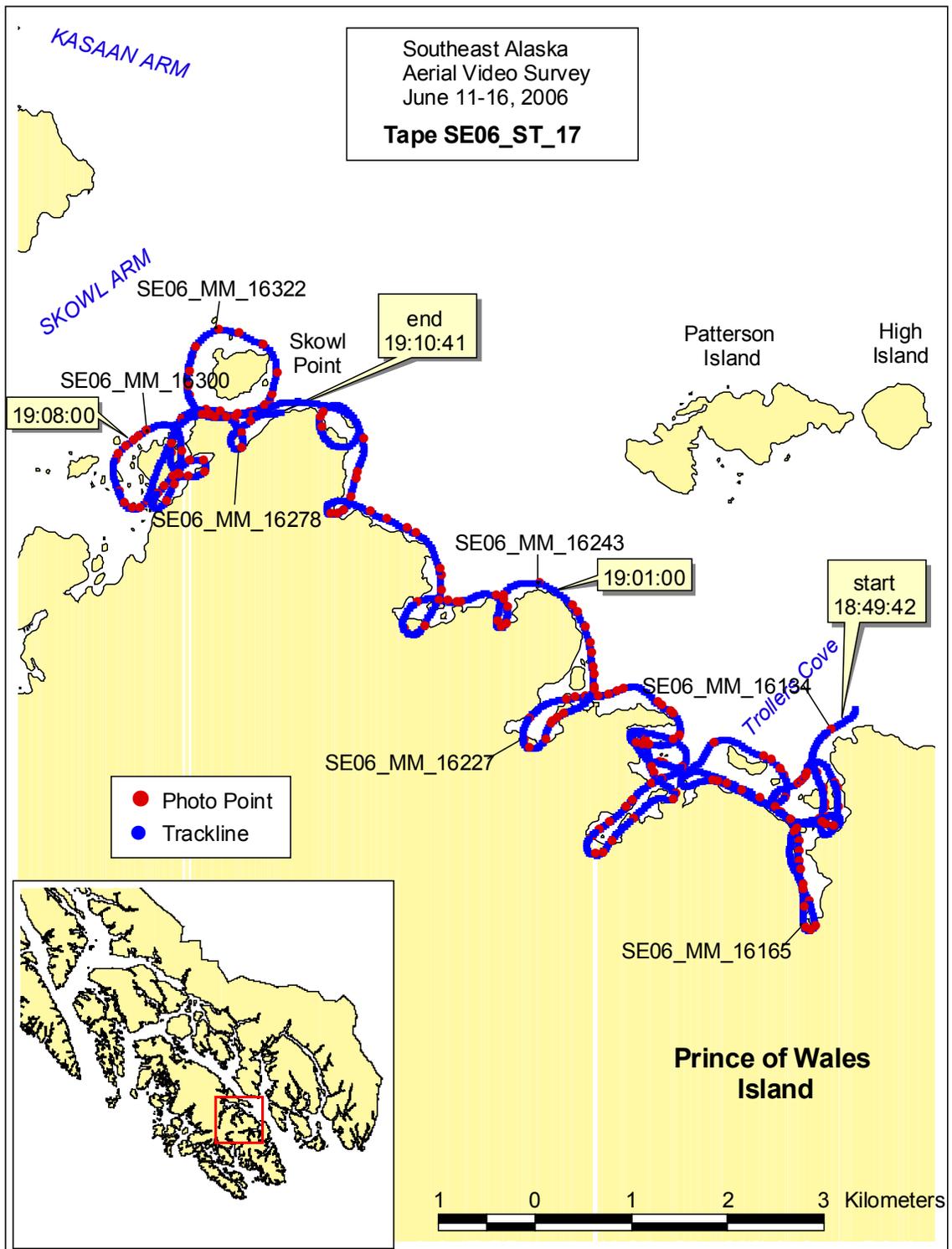


Figure 26. Location of Tape SE06_ST_17, 15 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_17 **Date:** 15 Jun 06

General Location: Trollers Cove to Skowl Point (southeast Prince of Wales Island)

Time Start (UTC):	18:49:42	Geo:	Harney
Fuel Break:	none	Bio:	Morris
Time End (UTC):	19:10:41	Nav:	Ward
Tape Length:	20 min, 59 sec	Pilot:	Hart

Weather: Rain, very windy and turbulent (especially at Percy); across Clarence high fog, clouds, rain, overcast, very windy and turbulent.

Time (UTC)	Location	Photo
184942	Entrance to Trollers Cove	SE06 MM 16134
190100	E. side of Prince of Wales Island, opposite Patterson Island	SE06 MM 16243
190800	Entrance to Skowl Arm	SE06 MM 16302
191000	Island at Skowl Point	SE06 MM 16323
191041	End Skowl Point	SE06 MM 16333

Note: HORITA captioning lost at start of tape, requires ~2 min. repair

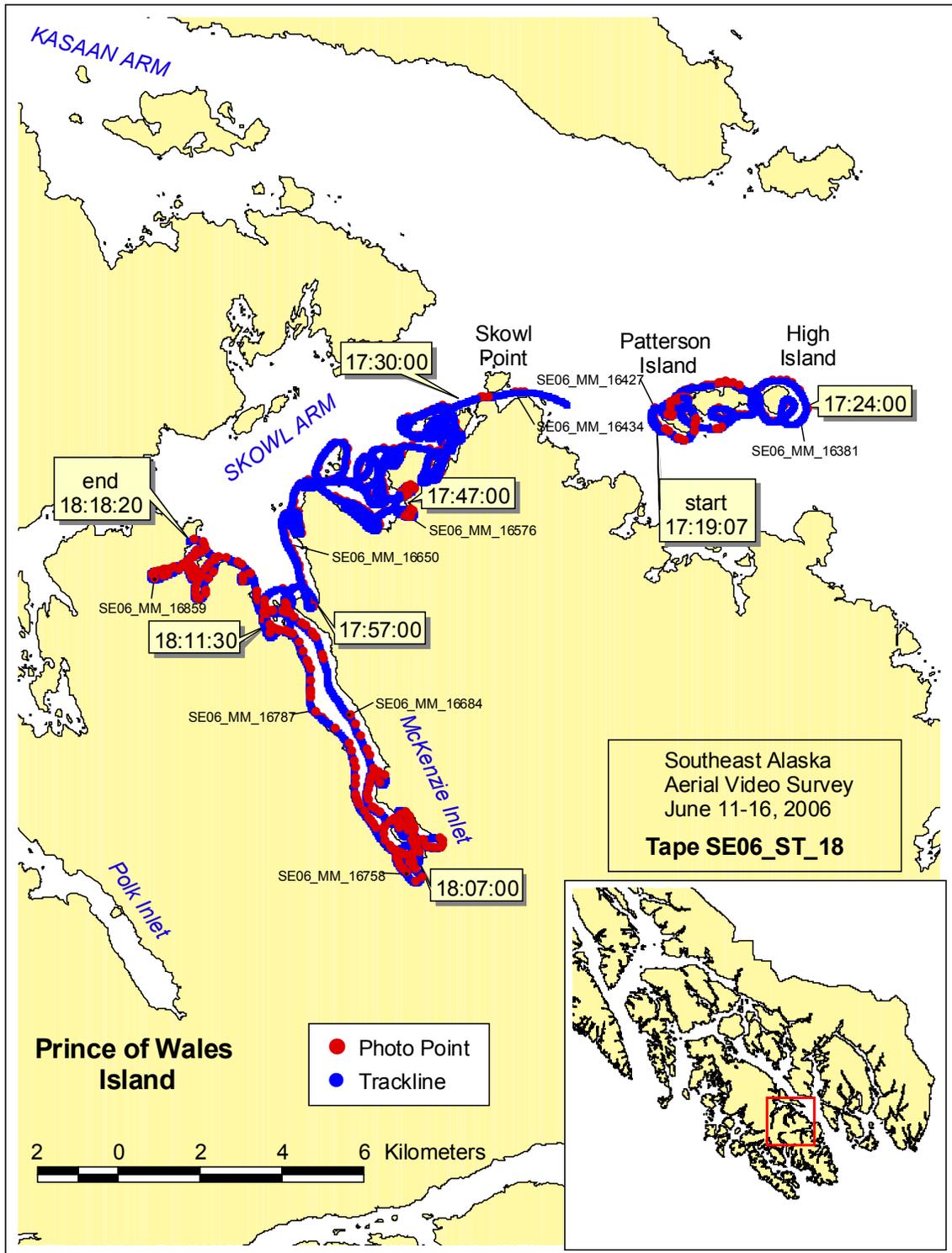


Figure 27. Location of Tape SE06_ST_18, 16 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_18 **Date:** 16 Jun 06

General Location: Patterson Island, Skowl Arm, McKenzie Inlet (southeast Prince of Wales Island)

Time Start (UTC): 17:19:07 **Geo:** Harney
Fuel Break: none **Bio:** Morris
Time End (UTC): 18:18:20 **Nav:** Ward
Tape Length: 56 min, 13 sec **Pilot:** Hart

Weather: Overcast and rainy; very windy and turbulent.

Time (UTC)	Location	Photo
171907	Patterson Island	SE06 MM 16341
172400	High Island	SE06 MM 16383
172747	Complete Patterson Island	SE06 MM 16431
172910	Overlap shoreline at Skowl Point	SE06 MM 16432
173006	Lost GPS and captioning, entrance to Skowl Arm	SE06 MM 16438
173342	Resume imaging, entrance to Skowl Arm	SE06 MM 16452
174704	Saltery Cove	SE06 MM 16571
175430	Entrance to McKenzie Inlet	SE06 MM 16629
180700	Head of McKenzie Inlet	SE06 MM 16746
181130	Narrows at entrance to McKenzie Inlet	SE06 MM 16800
181820	End west side of entrance to McKenzie Inlet, Skowl Arm	SE06 MM 16871

Note: Tape break 17:30:06 to 17:33:42, no shoreline loss

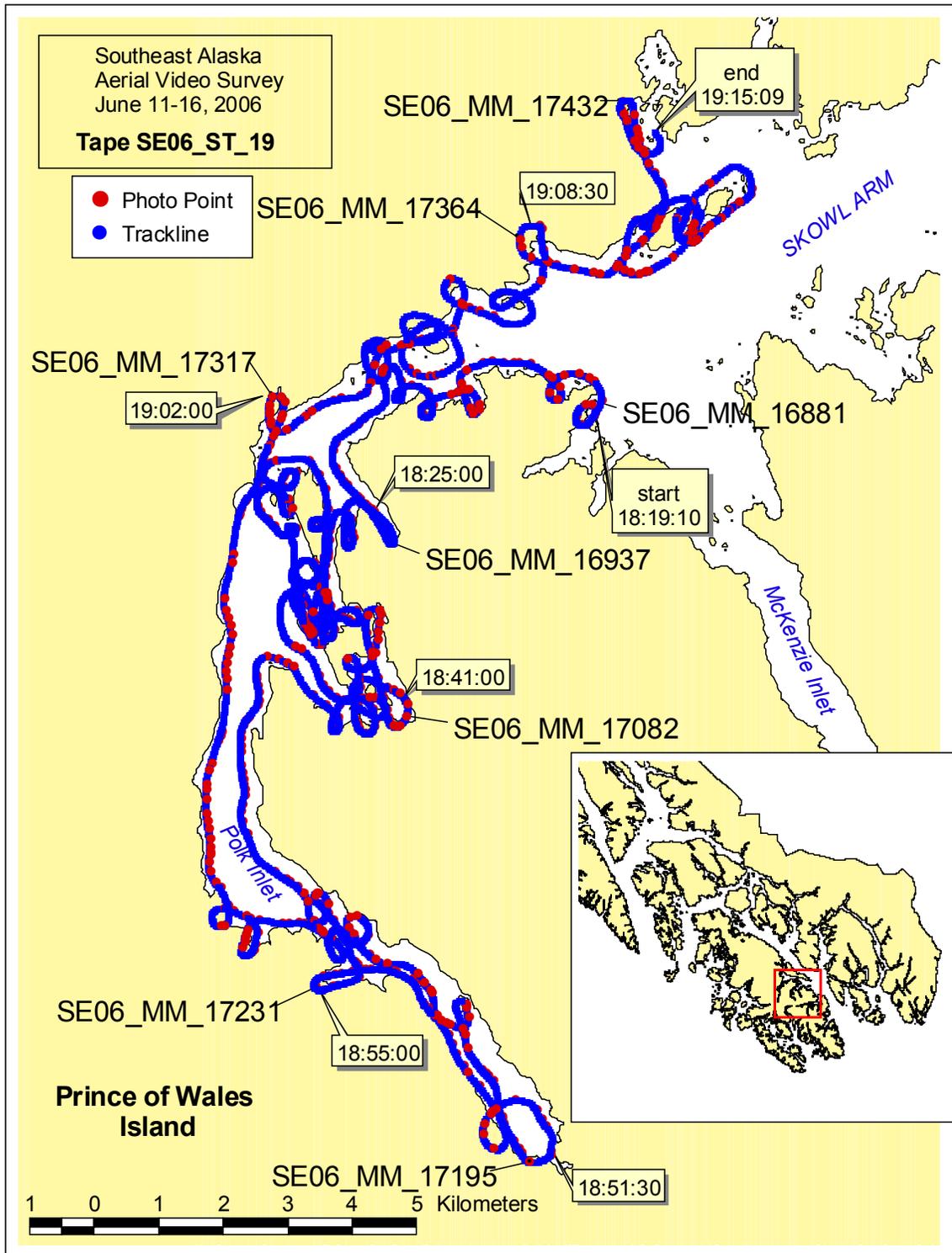


Figure 28. Location of Tape SE06_ST_19, 16 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_19 **Date:** 16 Jun 06

General Location: Polk Inlet, Skowl Arm to Smith Lagoon (southeast Prince of Wales Island)

Time Start (UTC): 18:19:10 **Geo:** Harney
Fuel Break: none **Bio:** Morris
Time End (UTC): 19:15:09 **Nav:** Ward
Tape Length: 55 min, 59 sec **Pilot:** Hart

Weather: Overcast and rainy; very windy and turbulent.

Time (UTC)	Location	Photo
181910	S. side Skowl Arm, west of McKenzie Inlet	SE06 MM 16874
182500	Little Goose Bay	SE06 MM 16931
184100	Head of Goose Bay	SE06 MM 17078
184500	Entrance to Polk Inlet	SE06 MM 17124
185230	Head Polk Inlet	SE06 MM 17193
185500	Dog Salmon Creek, Polk Inlet	SE06 MM 17231
190200	Mary Creek, Skowl Arm	SE06 MM 17317
190830	Monument Creek, Skowl Arm	SE06 MM 17362
191509	End Smith Lagoon, N. side Skowl Arm	SE06 MM 17437

Note: No refuel or other tape breaks

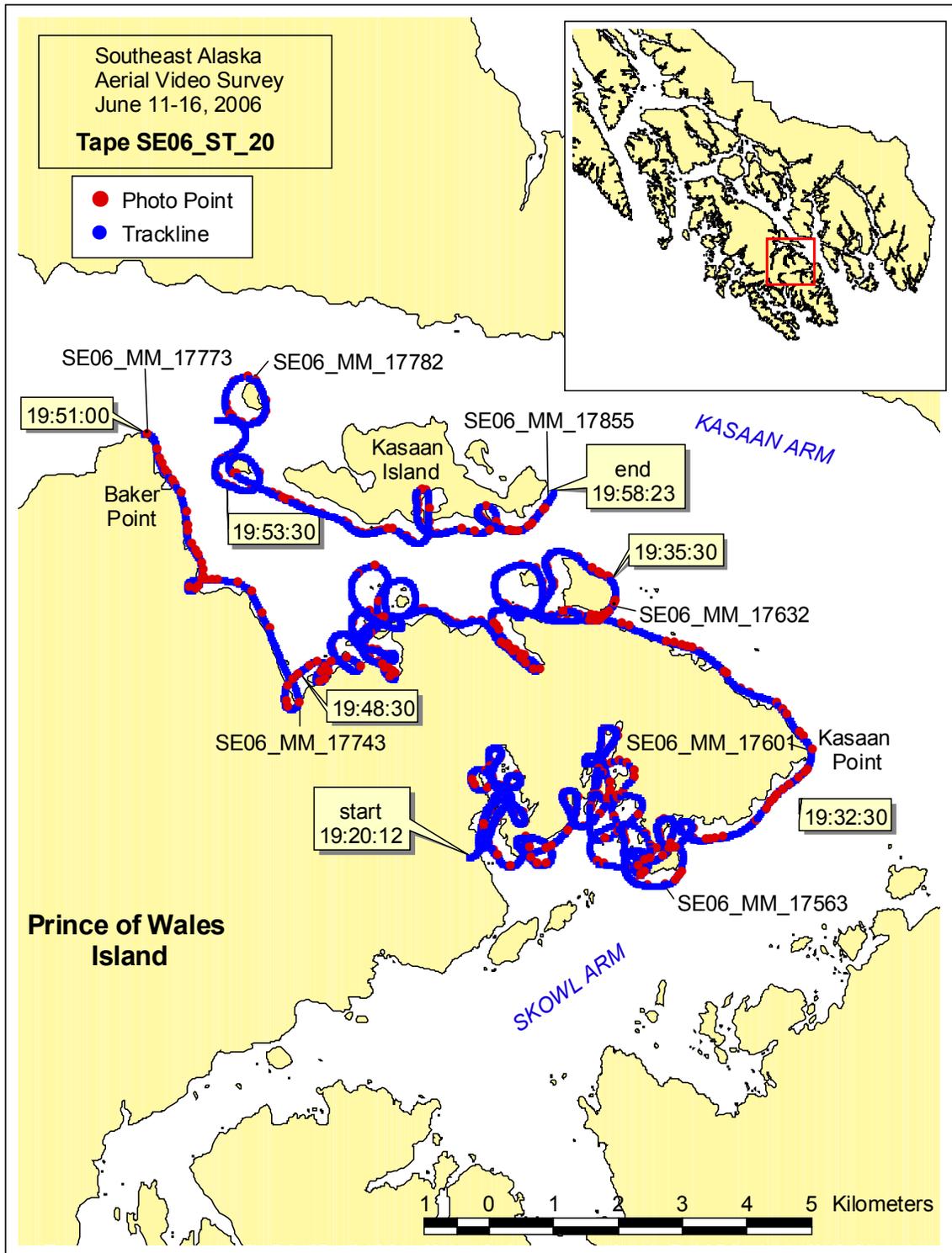


Figure 29. Location of Tape SE06_ST_20, 16 June 2006.

2006 Southeast Alaska Aerial Video Imaging Survey
June 2006
Team SandlanceTwo (ST)

Tape: SE06_ST_20 **Date:** 16 Jun 06

General Location: Smith Lagoon to Kasaan Pt. in Skowl Arm, Kasaan Pt. to Baker Pt. in Kasaan Arm, Kasaan Island (southeast Prince of Wales Island)

Time Start (UTC):	19:20:12	Geo:	Harney
Fuel Break:	none	Bio:	Morris
Time End (UTC):	19:58:23	Nav:	Ward
Tape Length:	38 min, 11 sec	Pilot:	Hart

Weather: Overcast and rainy; very windy and turbulent.

Time (UTC)	Location	Photo
192012	Smith Lagoon, Skowl Arm	SE06 MM 17472
192900	N. side of Skowl Arm	SE06 MM 17564
193230	Kasaan Point	SE06 MM 17600
193530	Daisy Island	SE06 MM 17638
195100	Baker Point, Kasaan Arm	SE06 MM 17773
195200	Round Island	SE06 MM 17774
195330	Berry Island	SE06 MM 17790
195445	W. tip Kasaan Island	SE06 MM 17800
195823	End E. tip Kasaan Island	SE06 MM 17855

Note: No refuel or other tape breaks