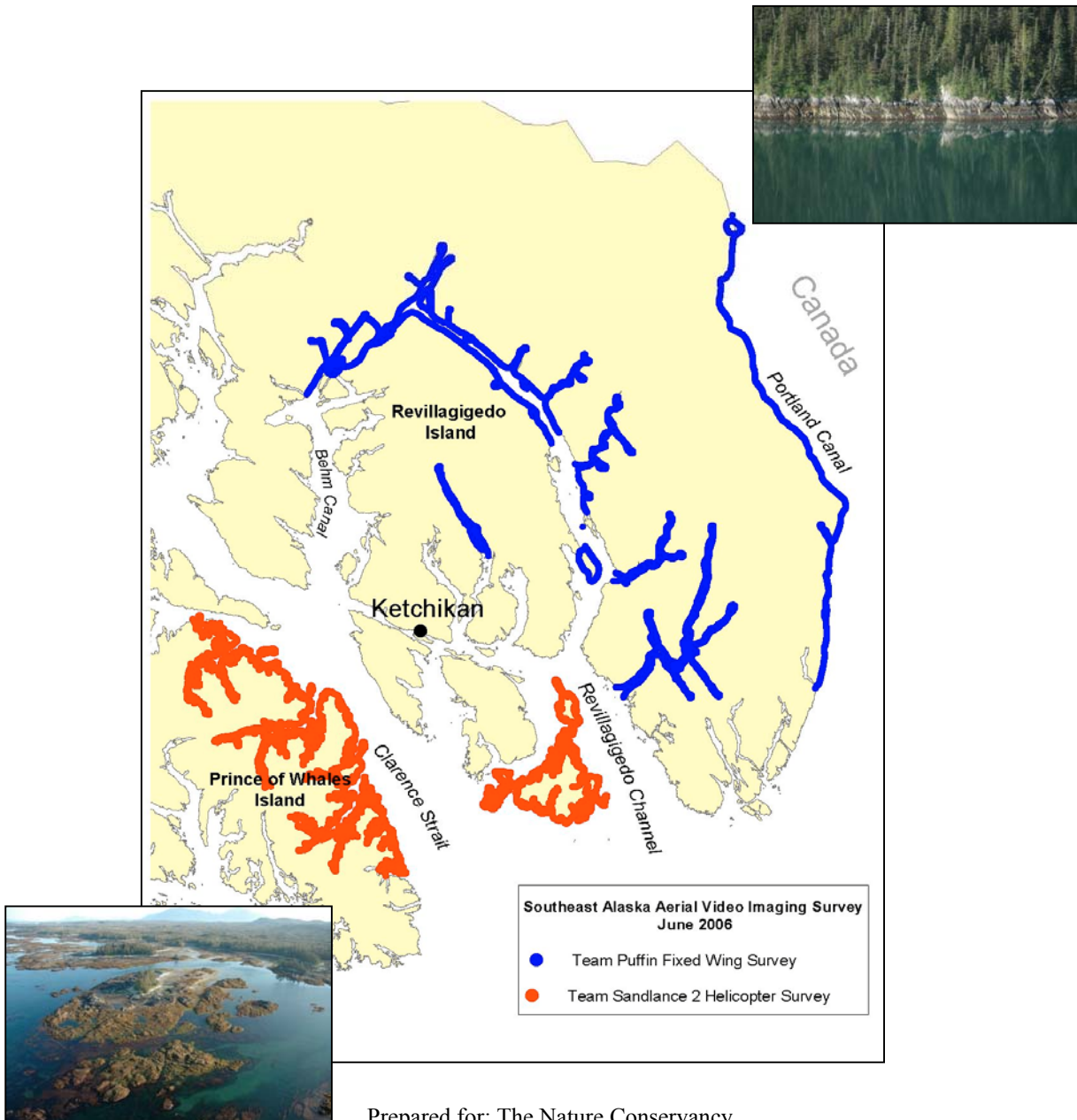


***Southeast Alaska
Aerial Video Imaging Survey,
(11 - 16 June 2006)***



Prepared for: The Nature Conservancy
Juneau, Alaska



**COASTAL & OCEAN
RESOURCES INC.**

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

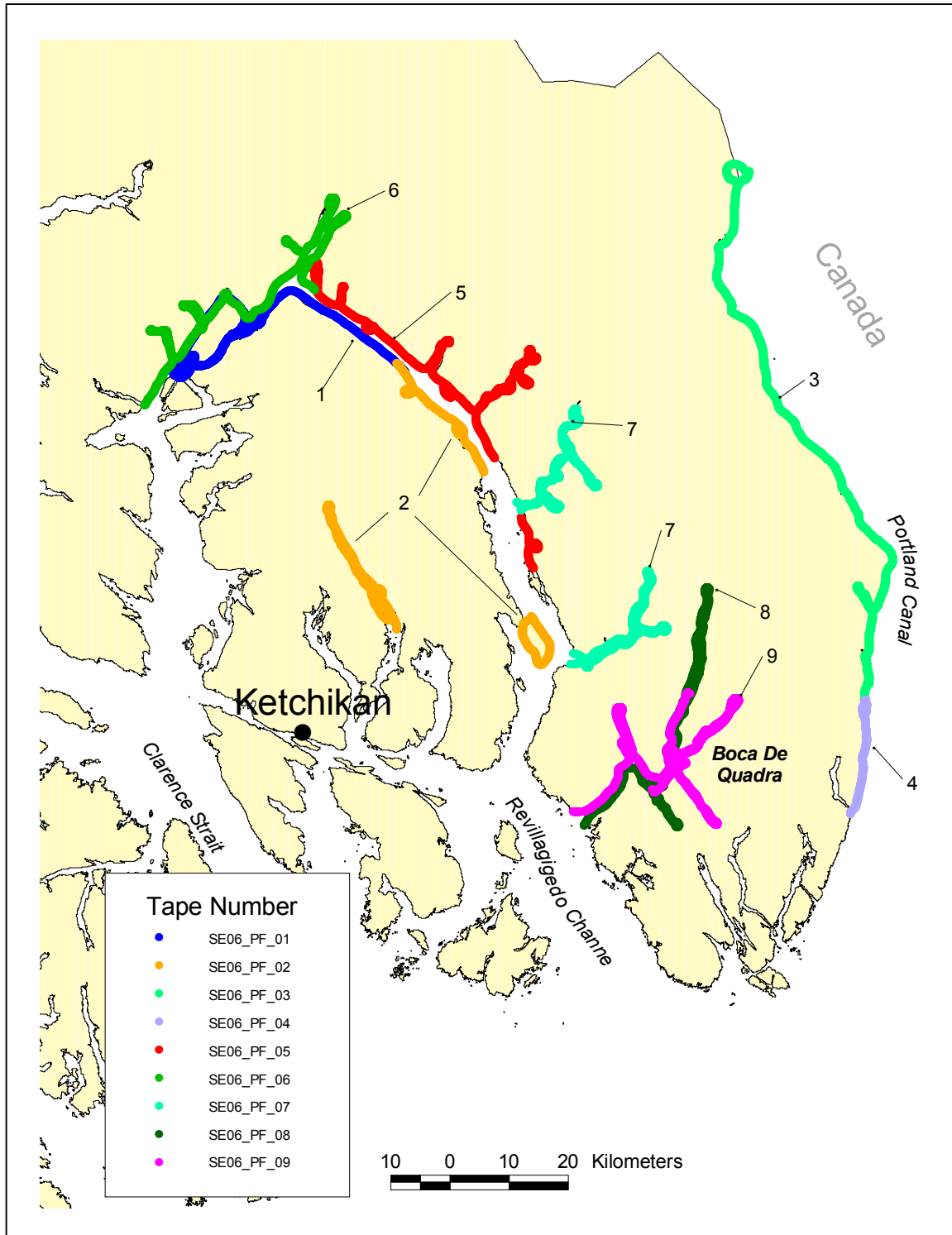


Figure A Tape Numbers for Team Puffin, Fixed-wing survey, June 2006.

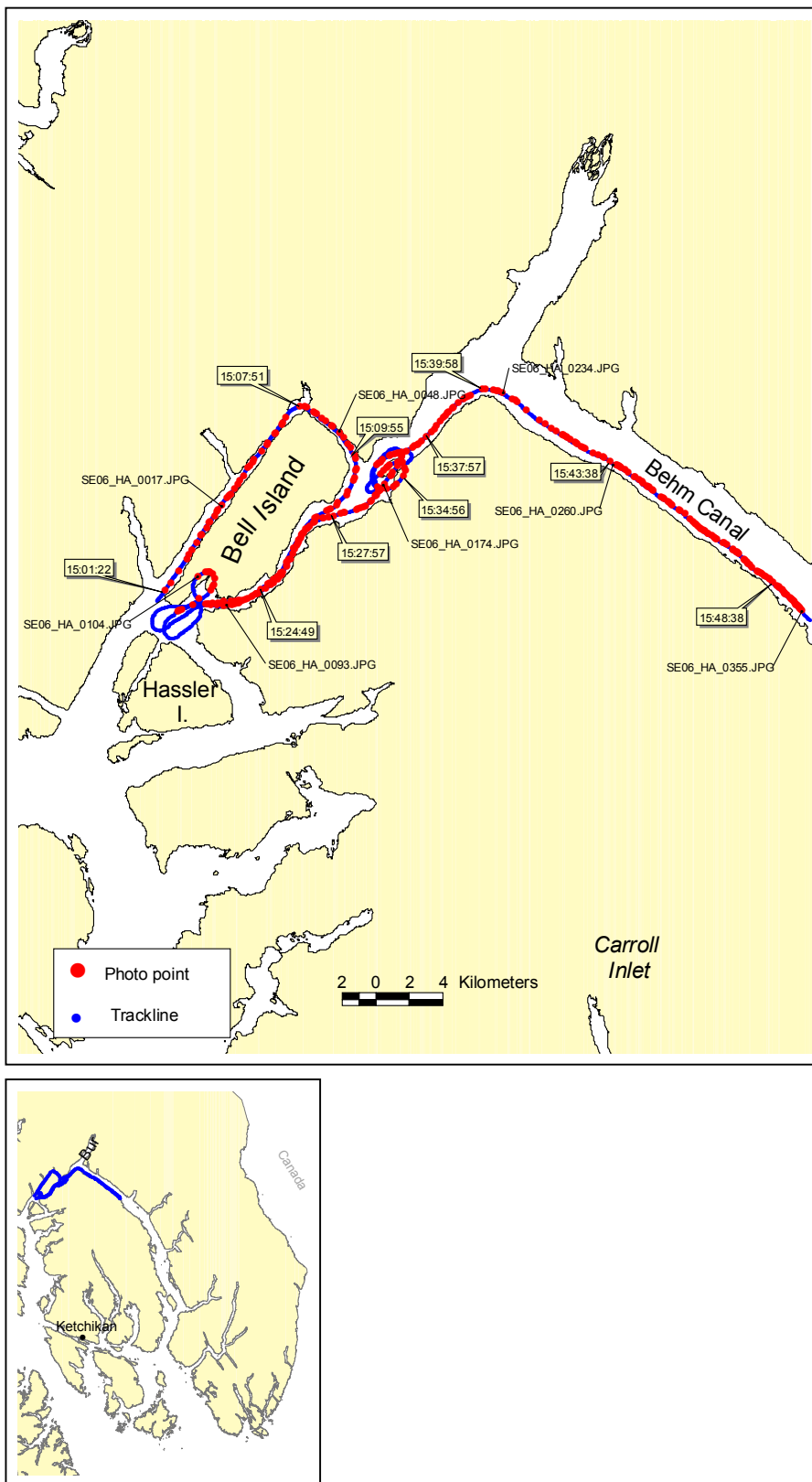


Figure 1. Location of Tape SE06_PF_01, 12 June 2006.

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

Tape: SE06_PF_01 **Date:** 12 June 06

General Location: Bell Island, Eastern Behm Canal

Time Start (UTC): 15:00:56

Time End (UTC): 15:49:55

Tape Length: 48:59

Geo: Borecky

Bio: Anderson

Nav: Borecky

Weather: Bright, Sunny Day

Time (UTC)	Location	Photo
15:04:17	Bell Arm	SE06_HA_0017
15:09:10	Anchor Pass	SE06_HA_0048
15:18:56	Bell Island Hotsprings	SE06_HA_0104
15:29:43	Claude Point	SE06_HA_0174
15:40:33	Pt. Whaley	SE06_HA_0234
15:43:47	Portage Cove	SE06_HA_0260
15:49:34	Just north of Manzanita Bay	SE06_HA_0355

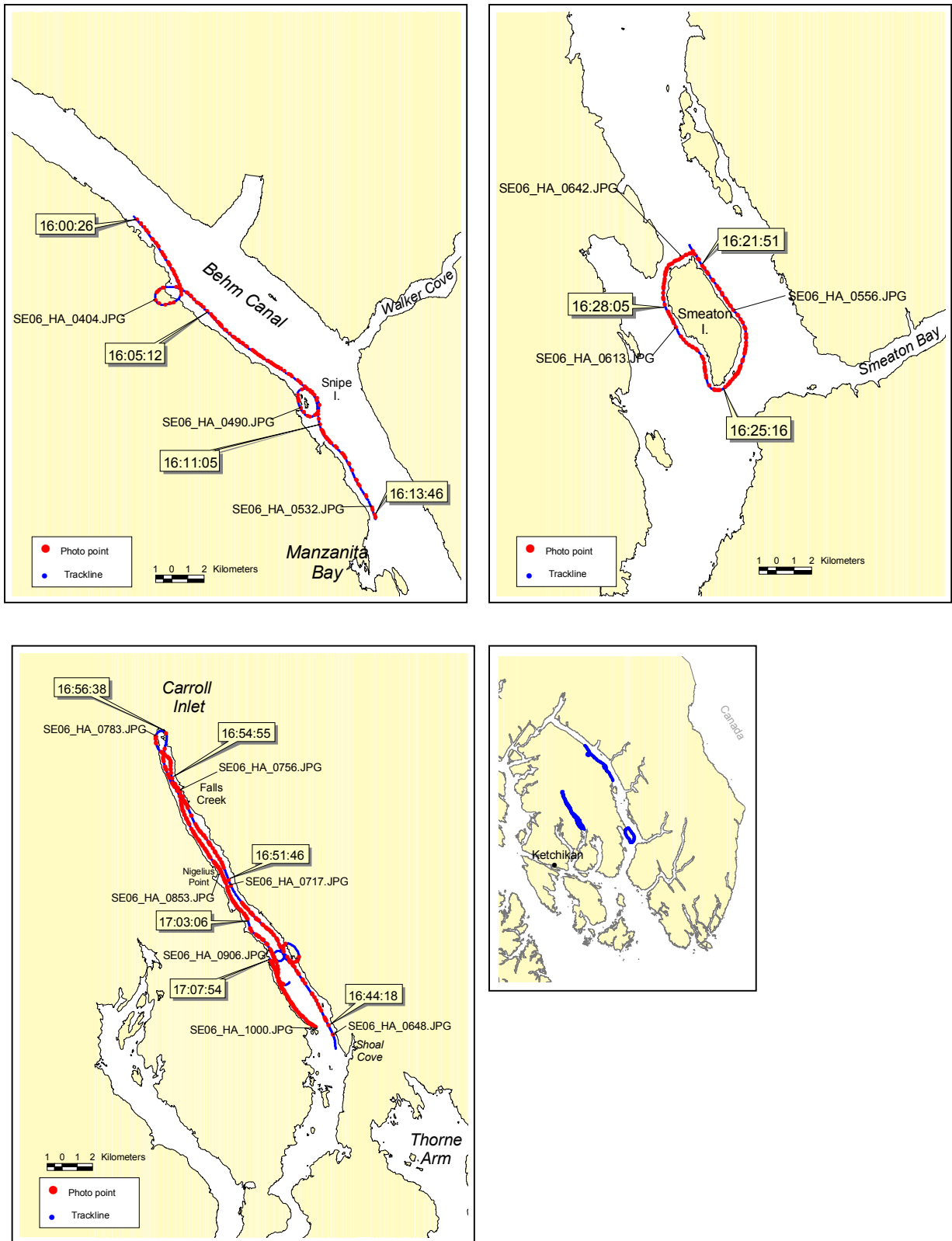


Figure 2. Location of Tape SE06_PF_02, 12 June 2006.

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.

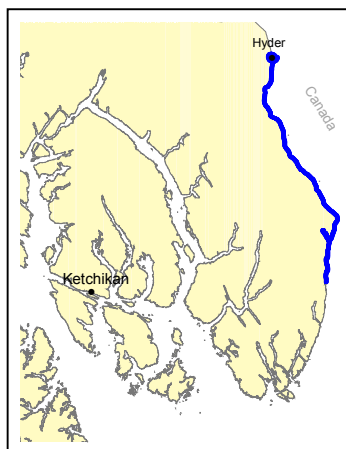
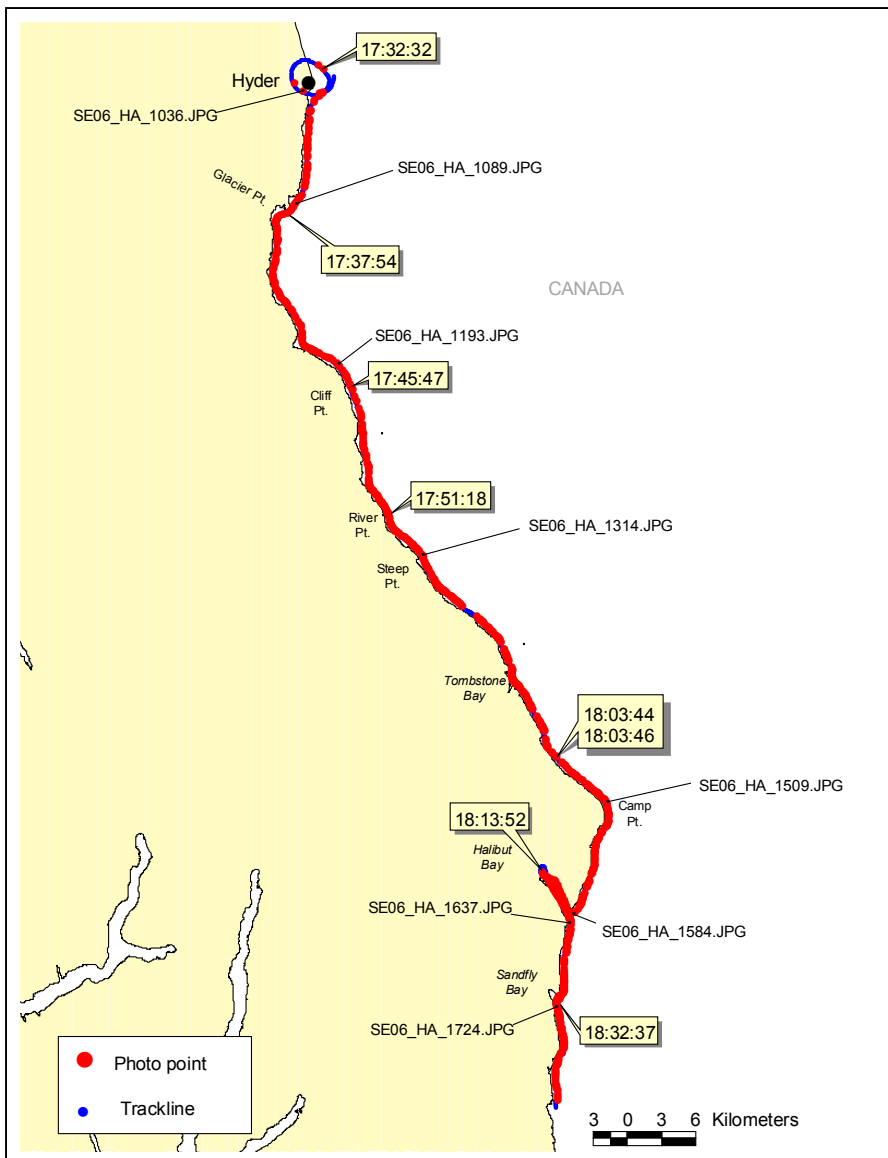


Figure 3. Location of Tape SE06_PF_03, 13 June 2006.

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

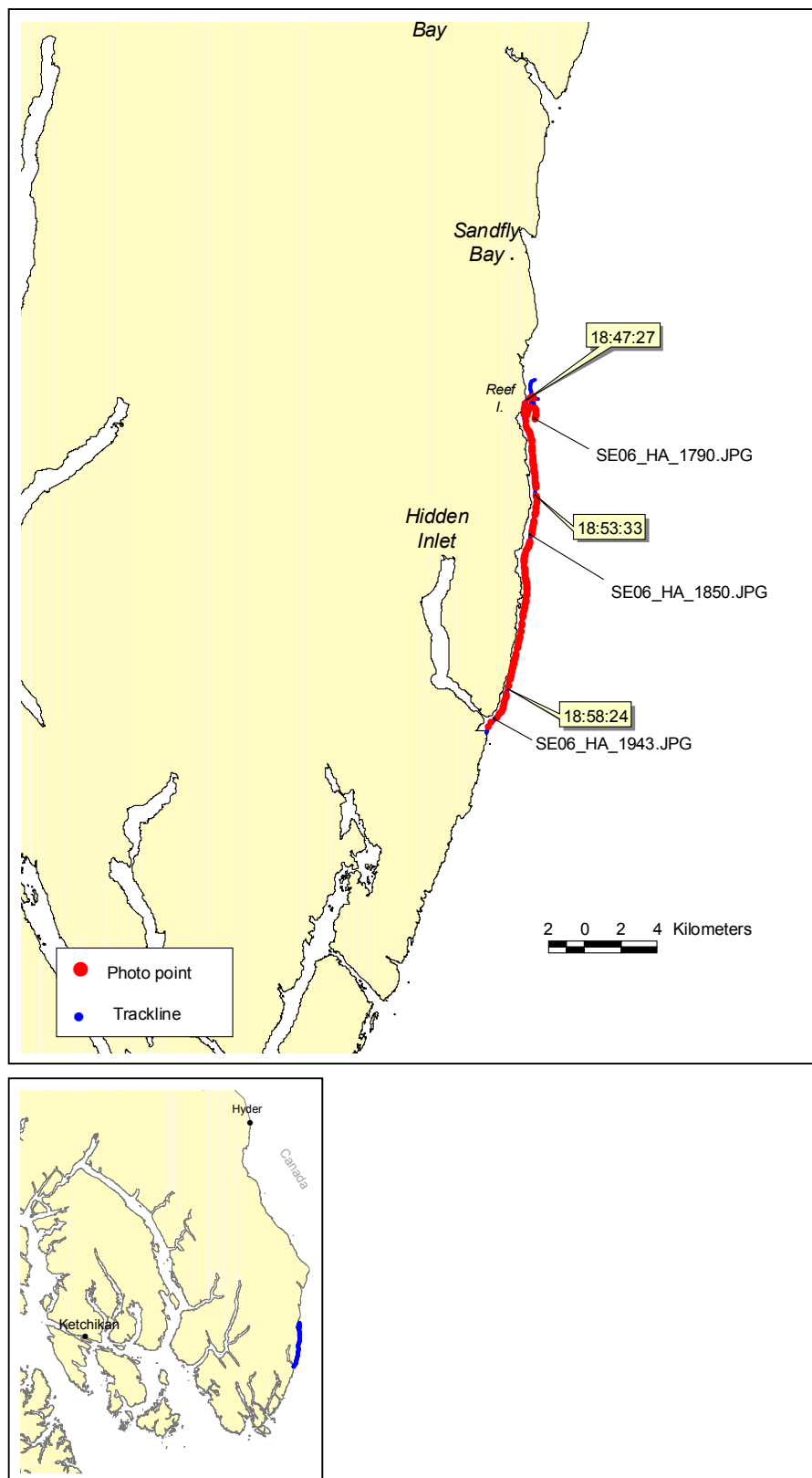


Figure 4. Location of Tape SE06_PF_04, 13 June 2006.

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

Time End (UTC): 18:59:44

Tape Length: 13:30

Geo: Borecky

Bio: Anderson

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

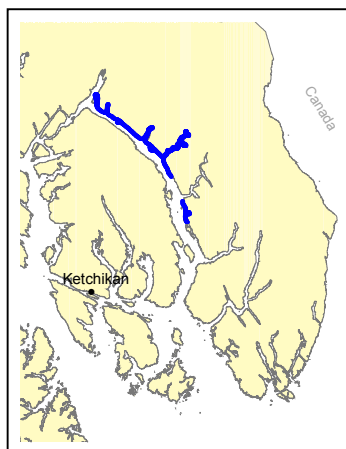
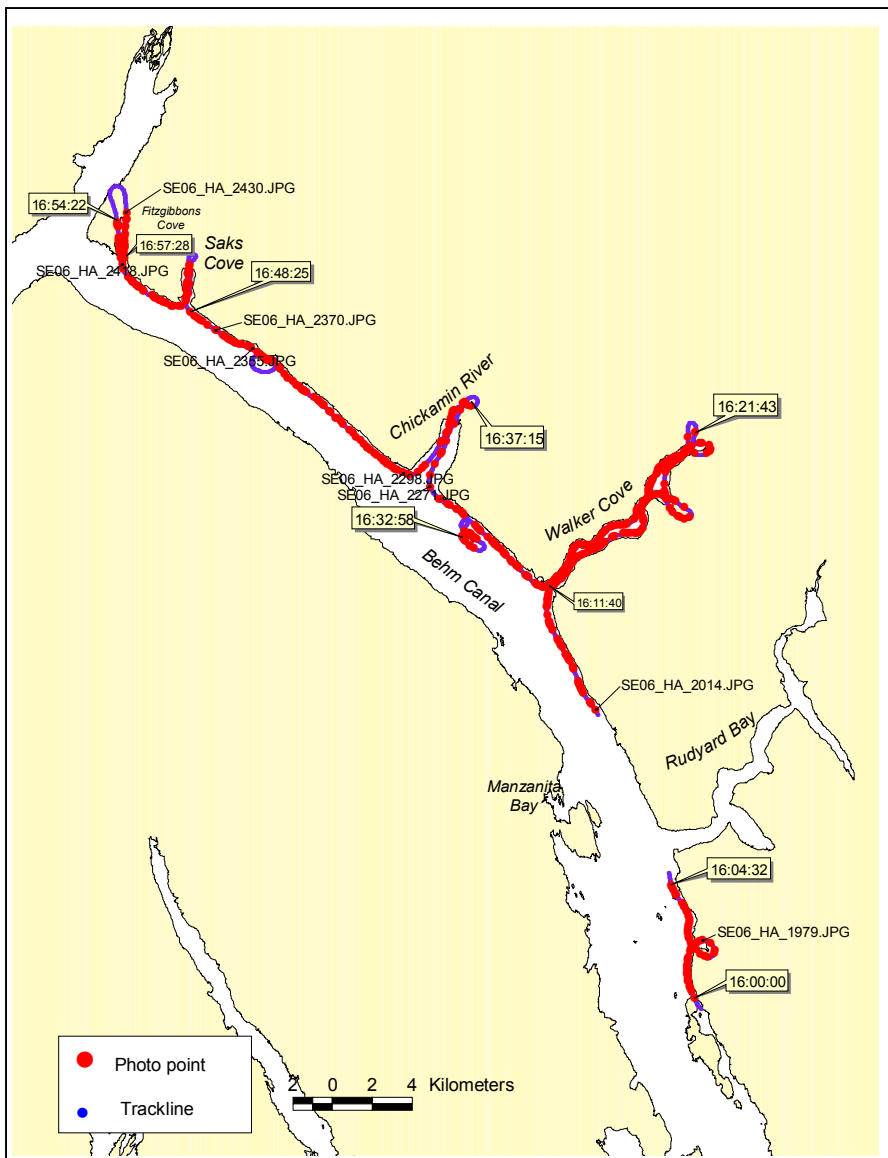


Figure 5. Location of Tape SE06_PF_05, 14 June 2006.

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

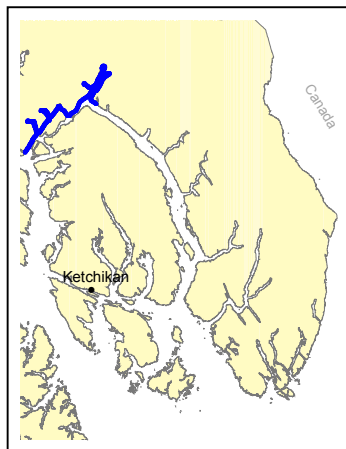
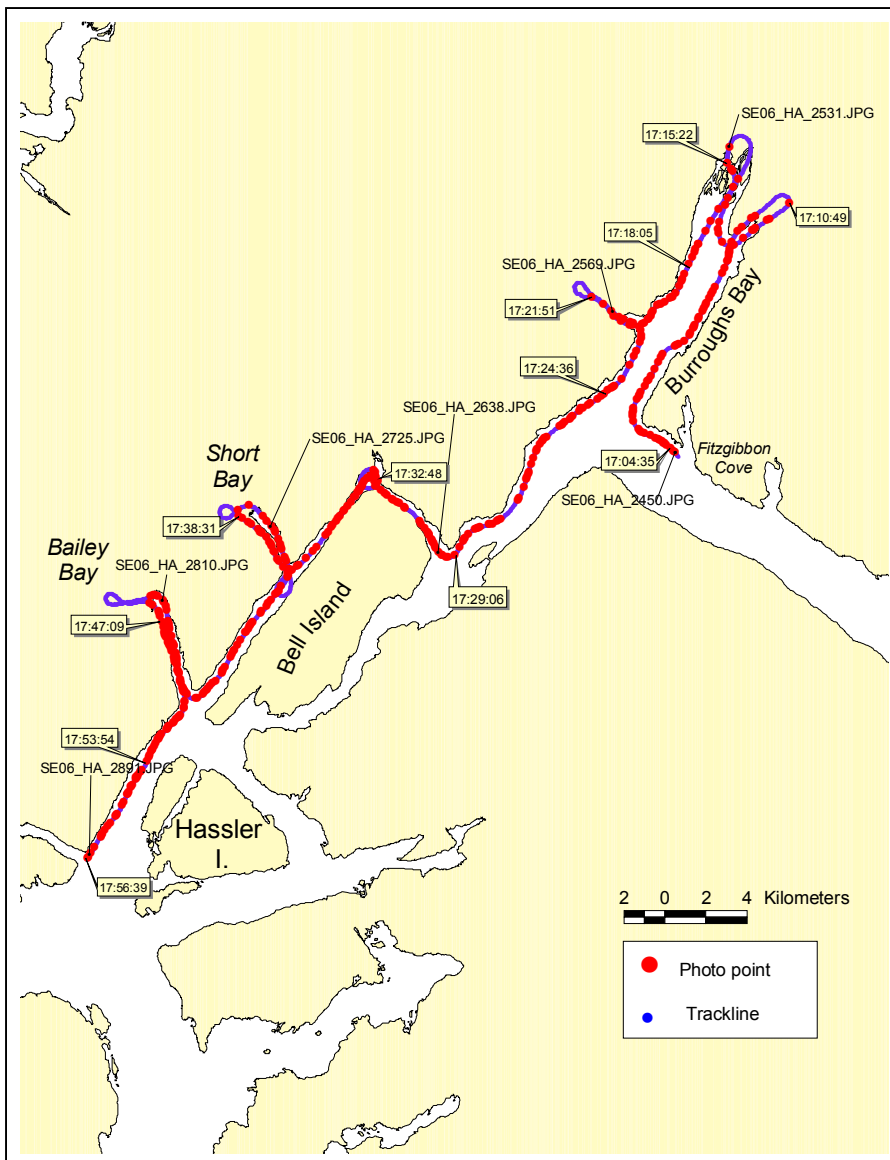


Figure 6. Location of Tape SE06_PF_06, 14 June 2006.

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

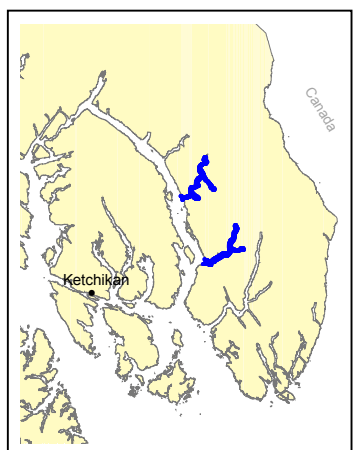
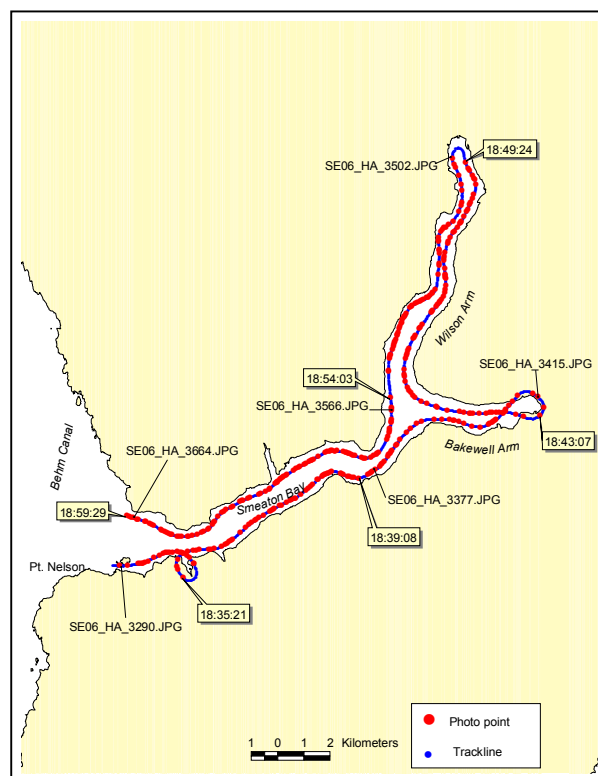
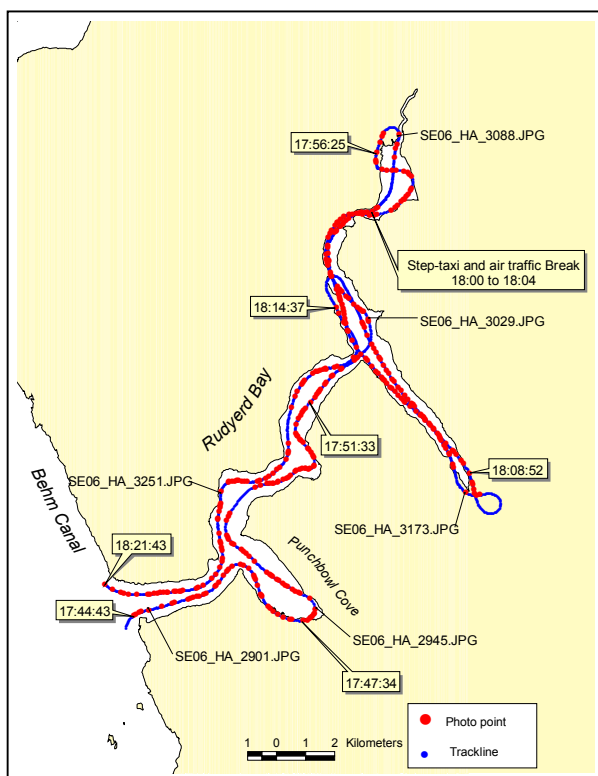


Figure 7. Location of Tape SE06_PF_07, 15 June 2006.

Tape: SE06_PF_07

Date: 15 June 06

General Location: Rudyerd Bay, Smeaton Bay

Time Start (UTC): 17:44:30
“Air Traffic” break in 18:00:05 to 18:04:39
Rudyerd
Transit Rudyerd to 18:21:43 to 18:33:23
Smeaton
Time End (UTC): 18:59:29
Tape Length: 59:45

Geo: Borecky
Bio: Anderson
Nav: Borecky

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

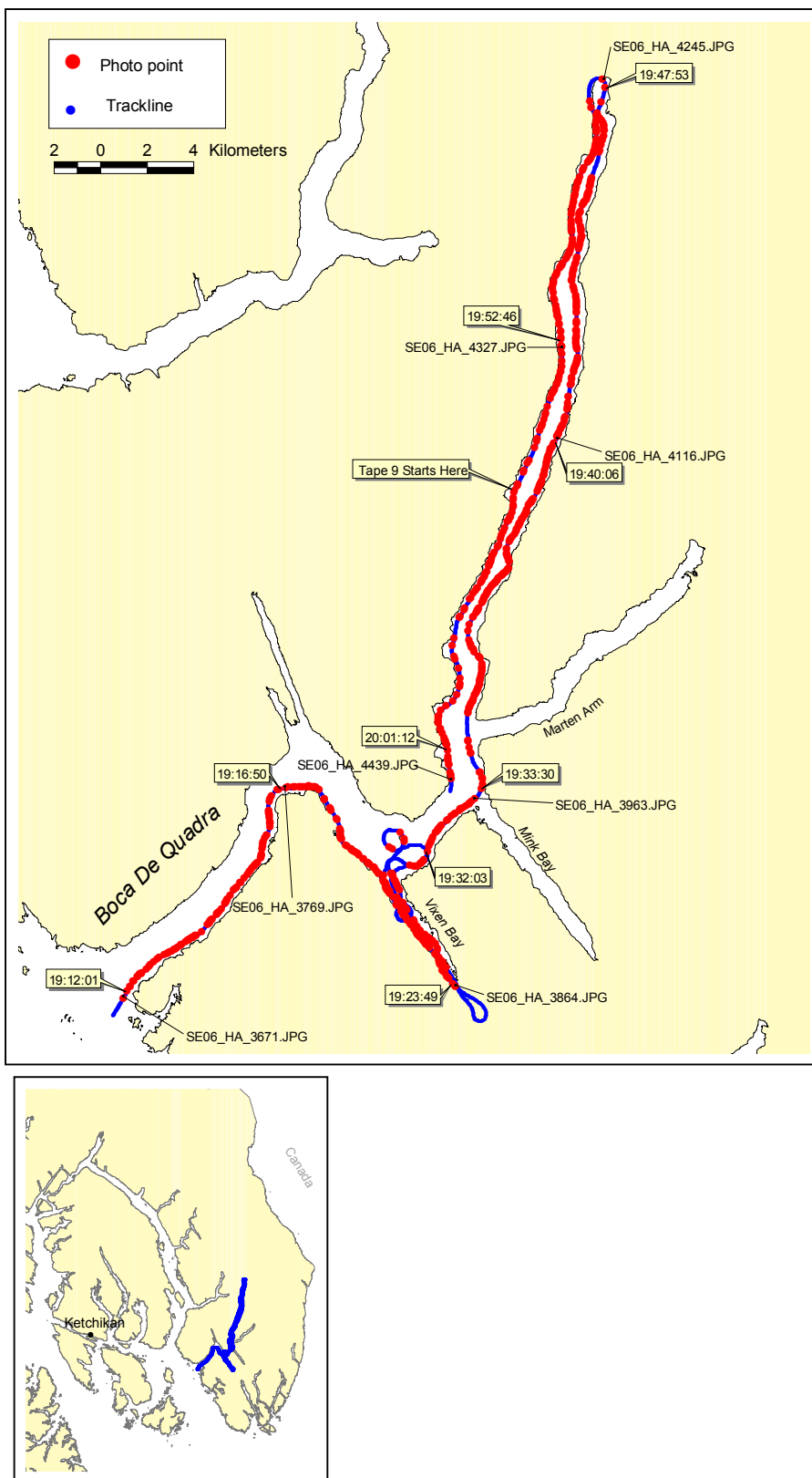


Figure 8. Location of Tape SE06_PF_08, 15 June 2006.

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

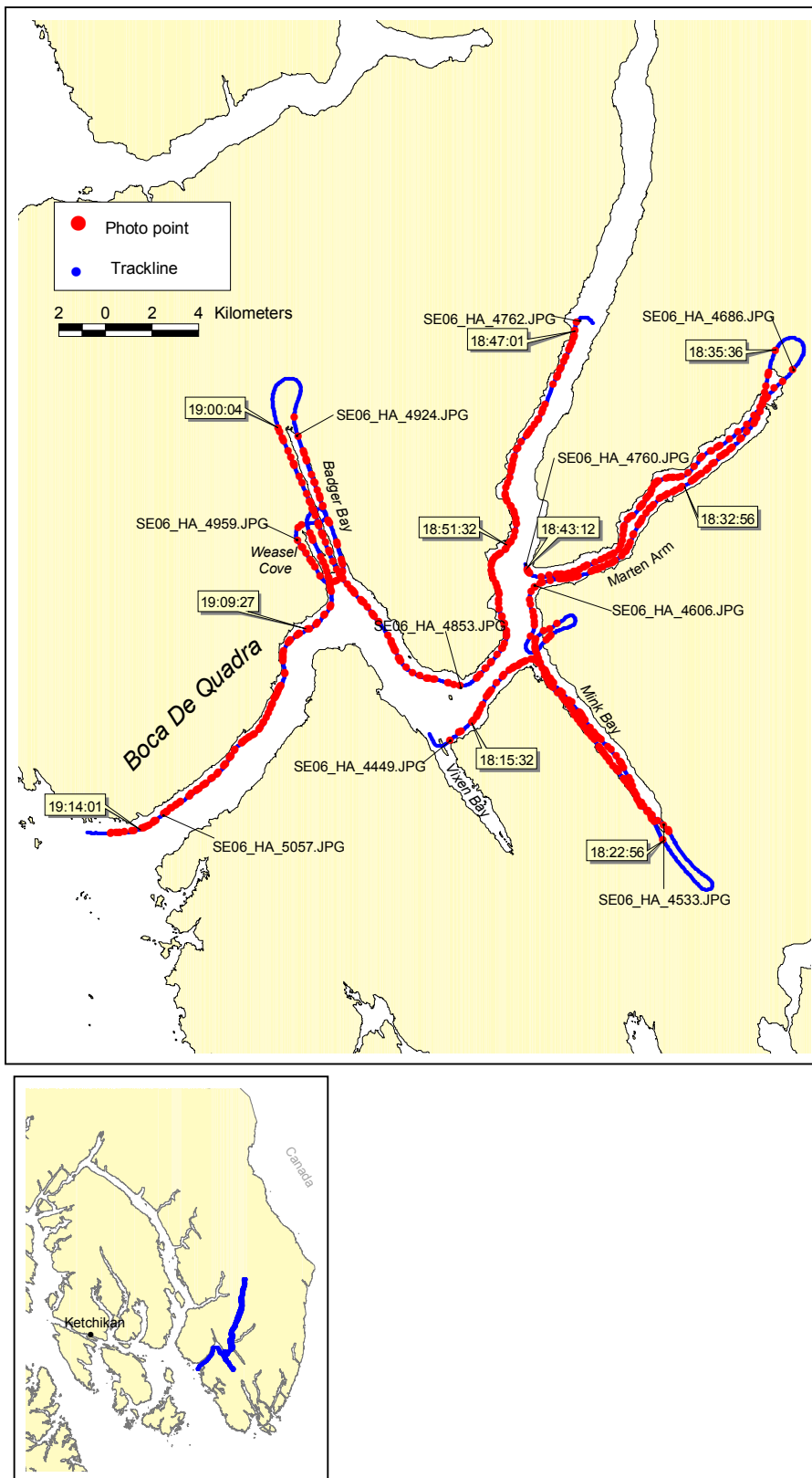


Figure 9. Location of Tape SE06_PF_09, 16 June 2006.

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

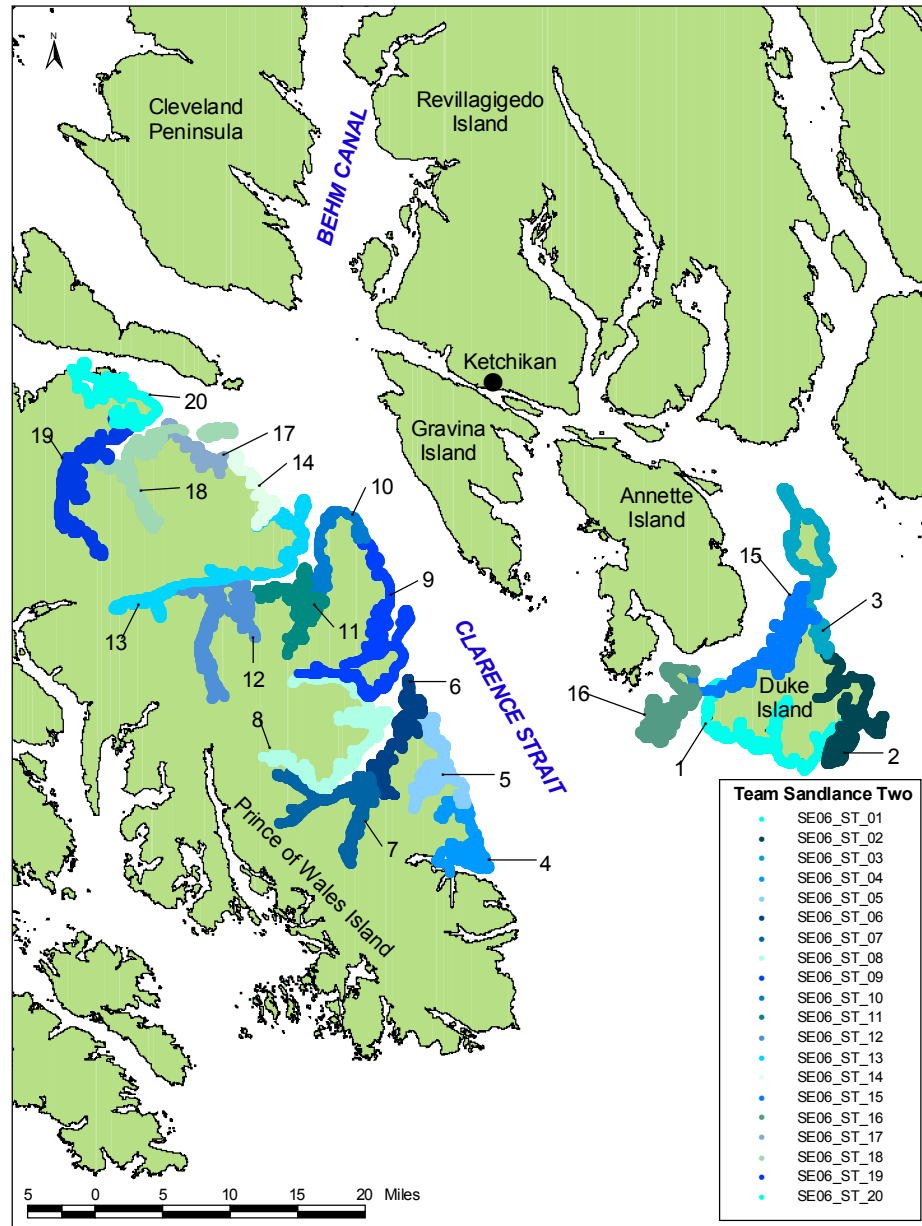


Figure B: Tape Locations of Sandlance 2 Survey Team



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

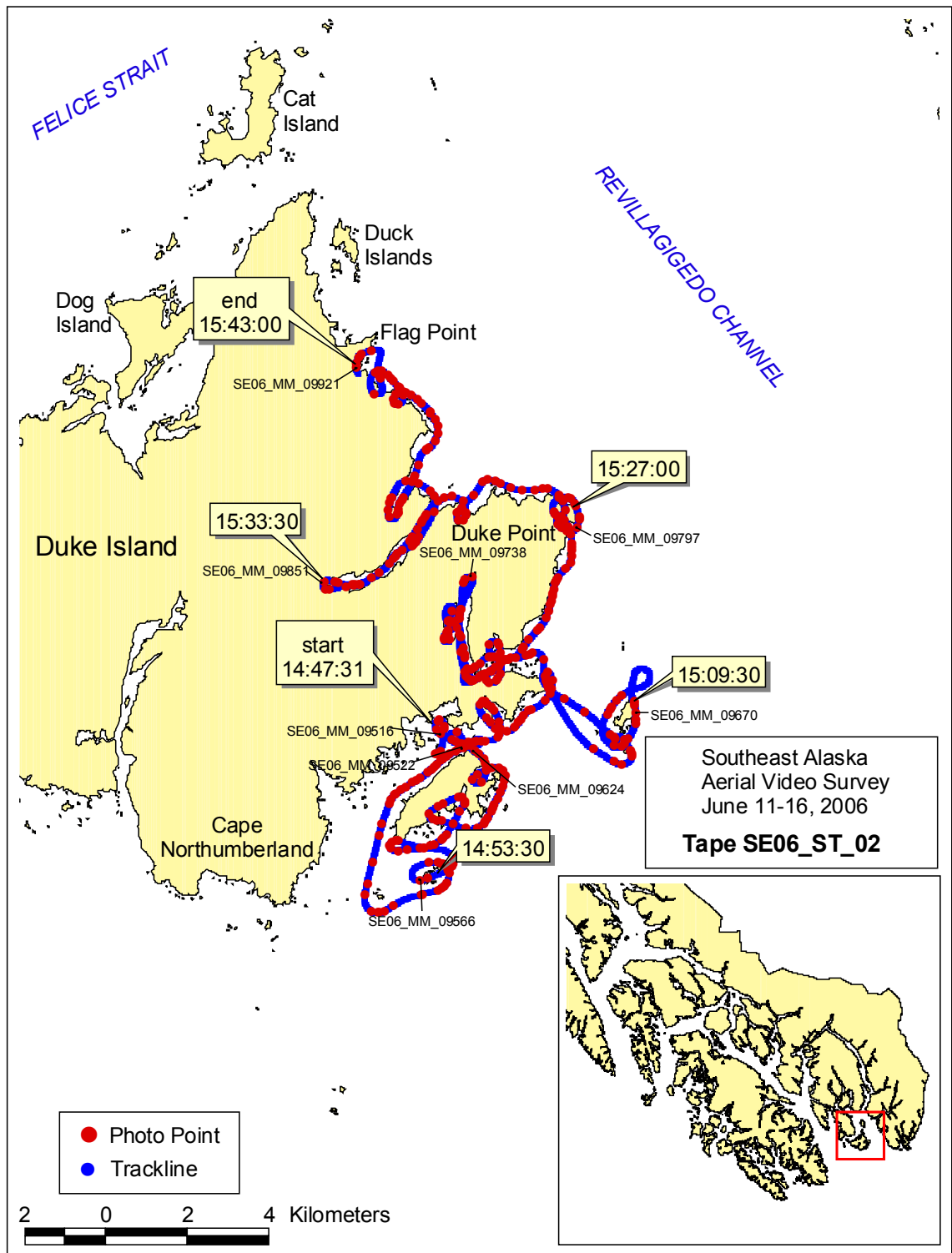


Figure 11. Location of Tape SE06_ST_02, 11 June 2006.

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

Tape: SE06_ST_02 **Date:** 11 Jun 06

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

Time Start (UTC):	14:47:31	(2:01 elapsed)	Geo:	Harney
Fuel Break:	none		Bio:	Morris
Time End (UTC):	15:43:00	(57:30 elapsed)	Nav:	Ward
Tape Length:	55min, 29sec		Pilot:	Hart

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

Time (UTC)	Location	Photo
144731	Hook Harbor, Duke Island	SE06_MM_09510
144930	Kelp Island	SE06_MM_09522
145330	Sister Islands, South of Duke Island	SE06_MM_09554
150200	Complete Kelp Island	SE06_MM_09624
150930	East Island, SE of Duke Island	SE06_MM_09669
152700	Duke Point, Duke Island	SE06_MM_09799
153330	Head of Morse Cove, Duke Island	SE06_MM_09851
154300	Flag Point, Duke Island	SE06_MM_09921

Note: No refuel or other tape breaks

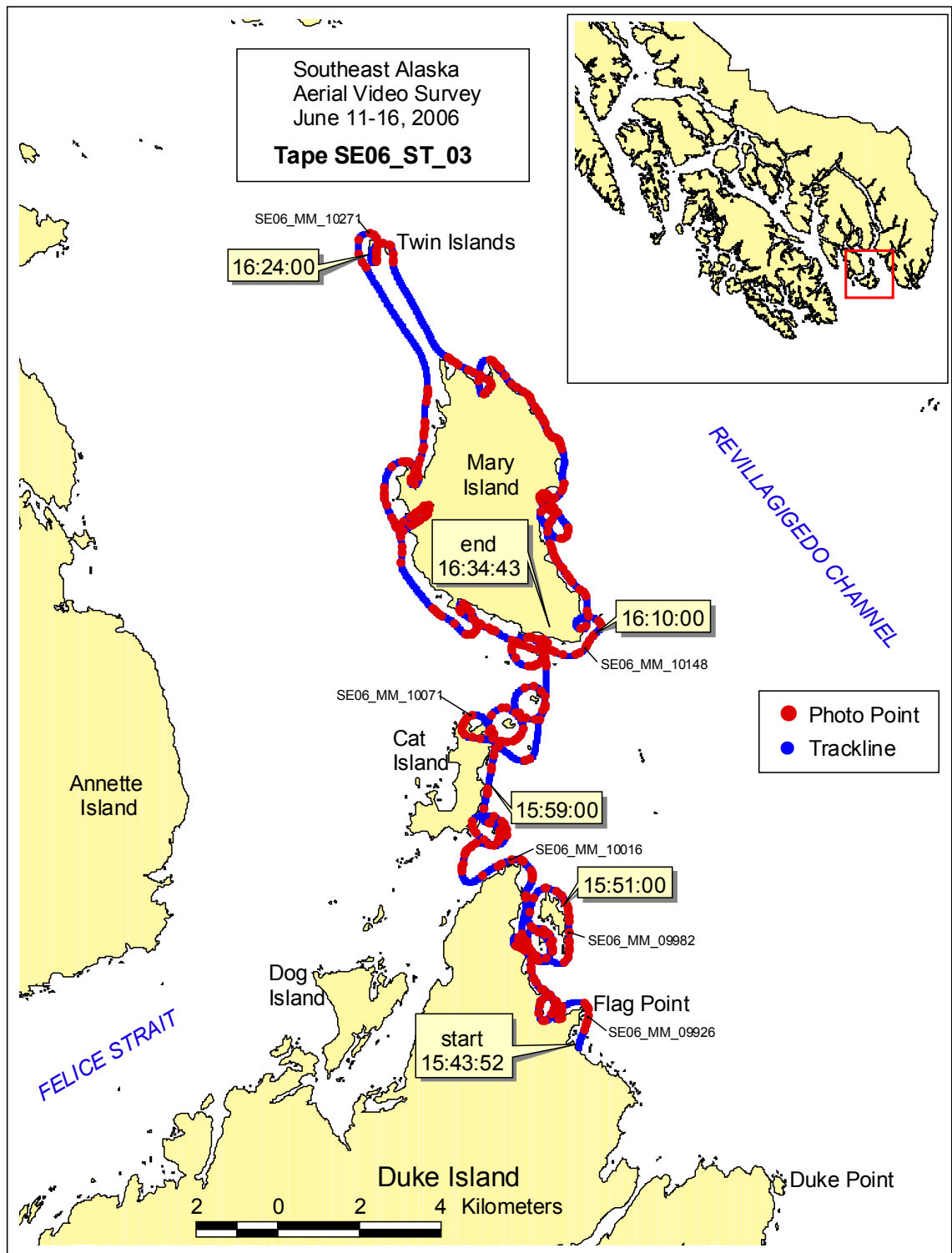


Figure 12. Location of Tape SE06_ST_03, 11 June 2006.

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

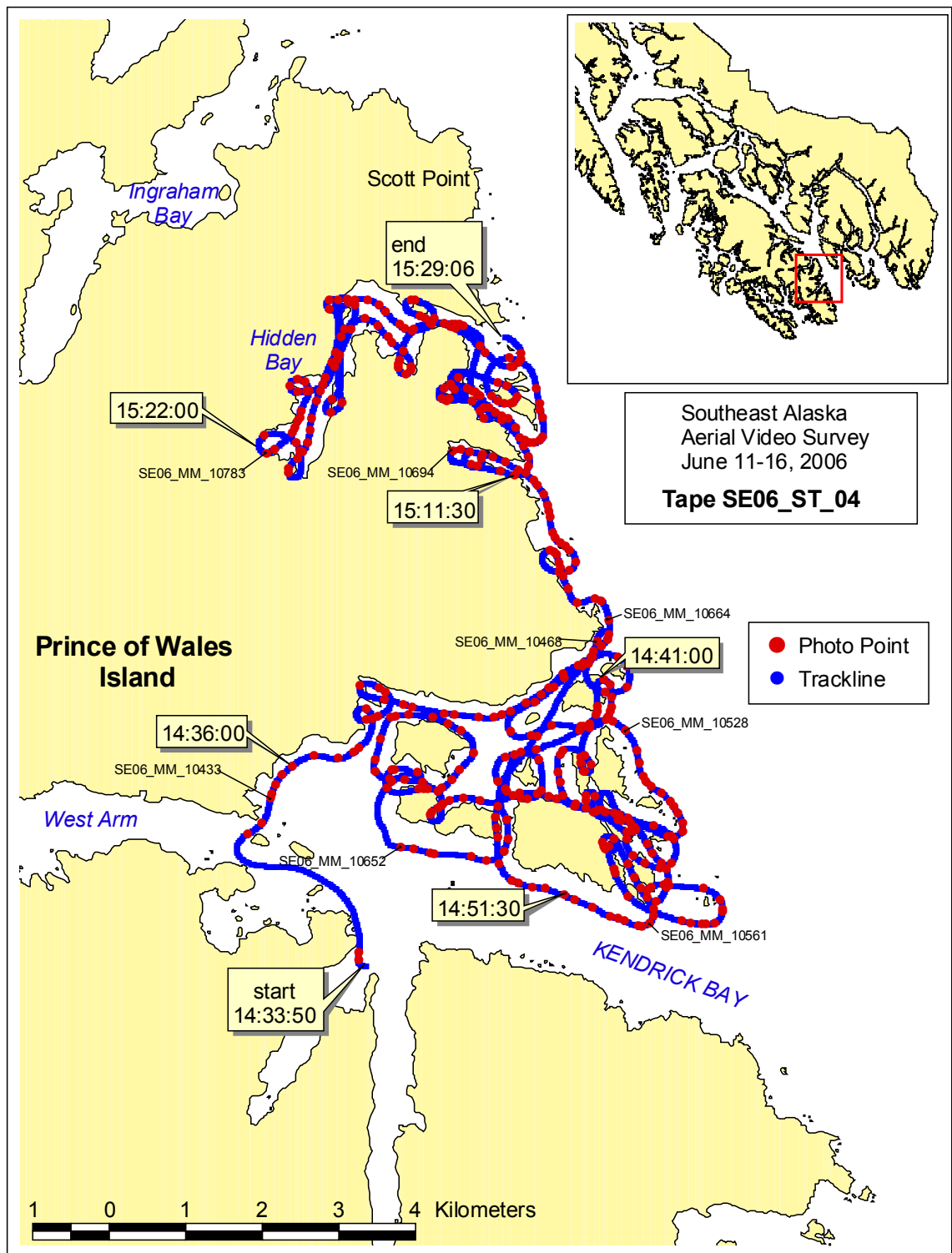


Figure 13. Location of Tape SE06_ST_04, 12 June 2006.

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

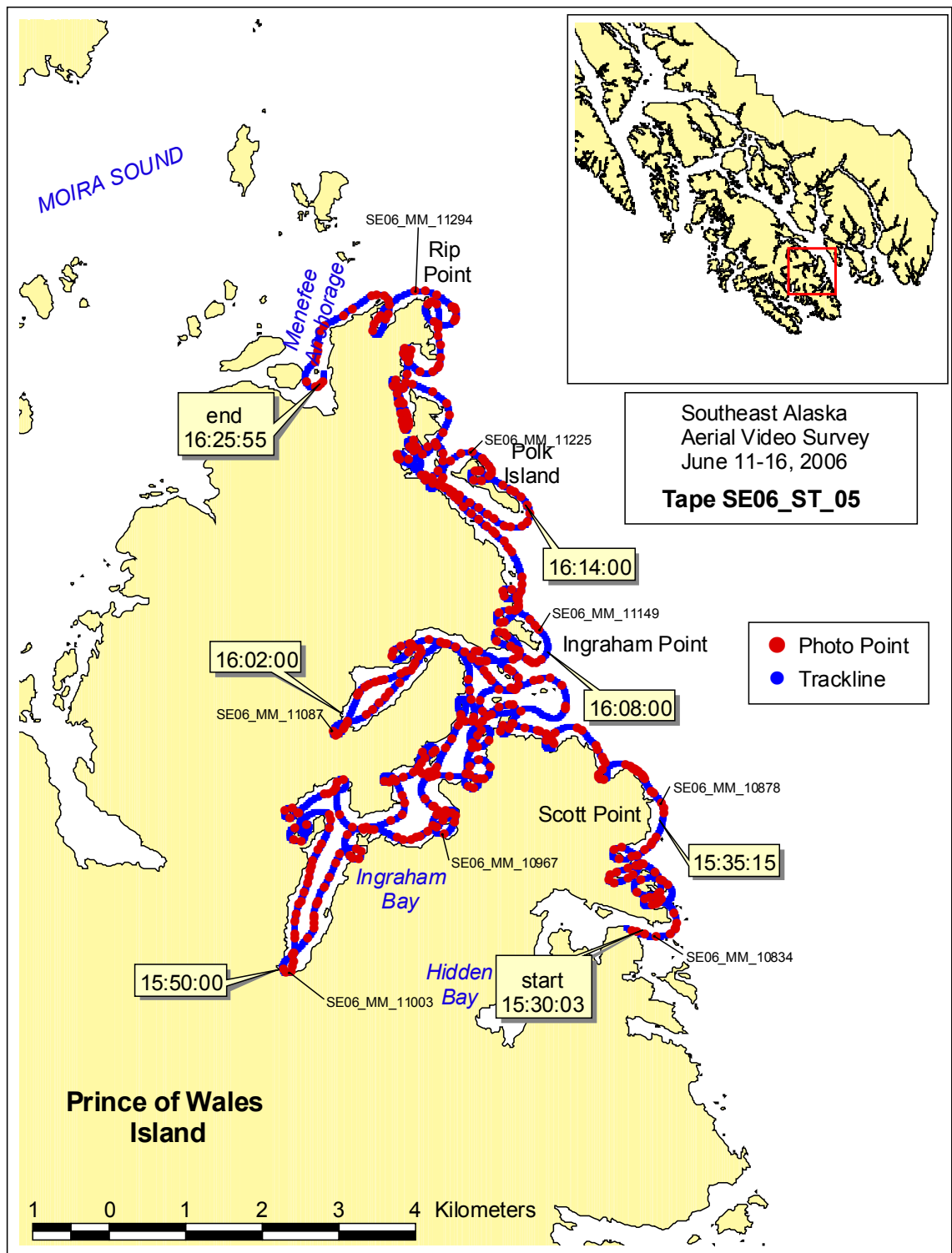


Figure 14. Location of Tape SE06_ST_05, 12 June 2006.

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

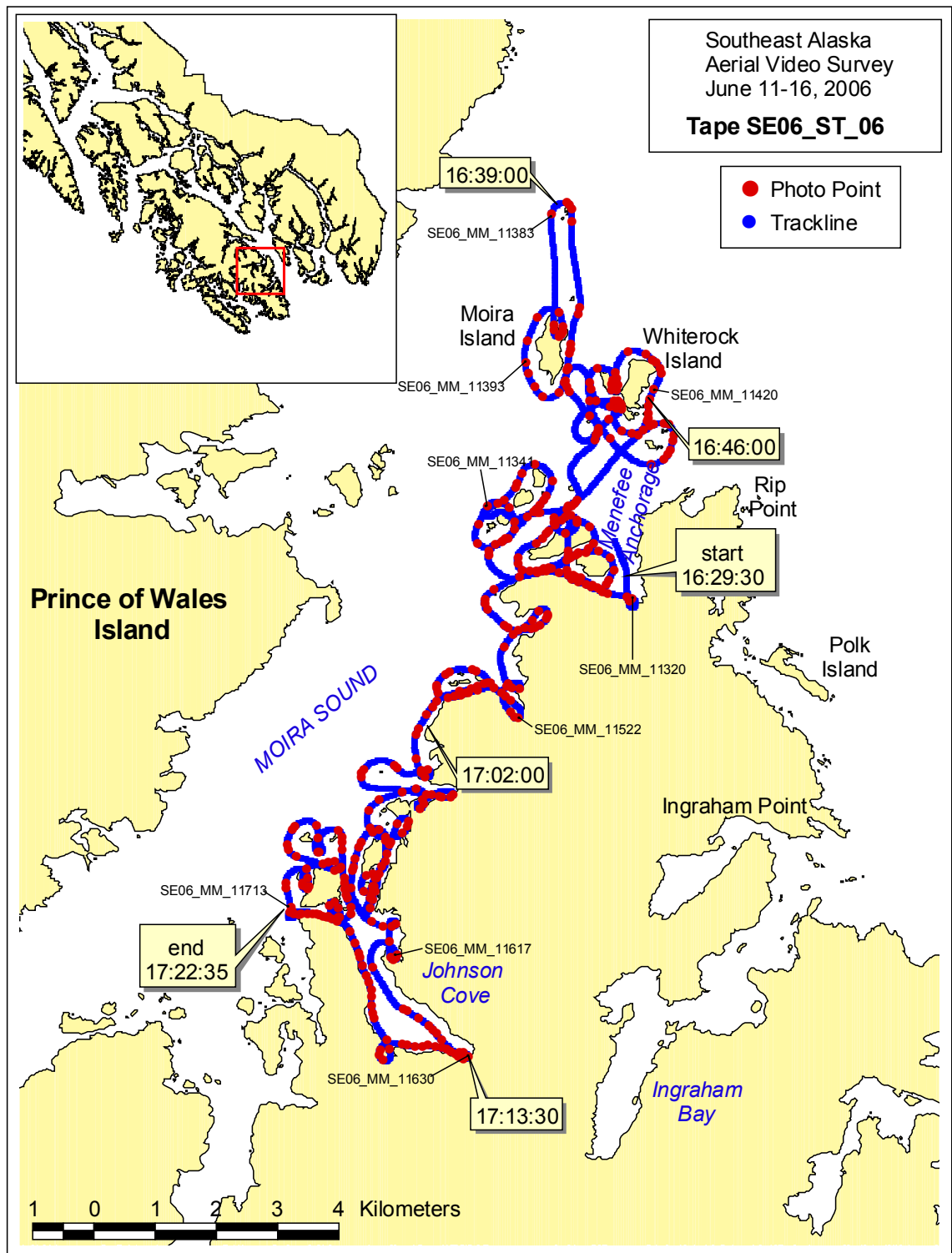


Figure 15. Location of Tape SE06_ST_04, 12 June 2006.

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

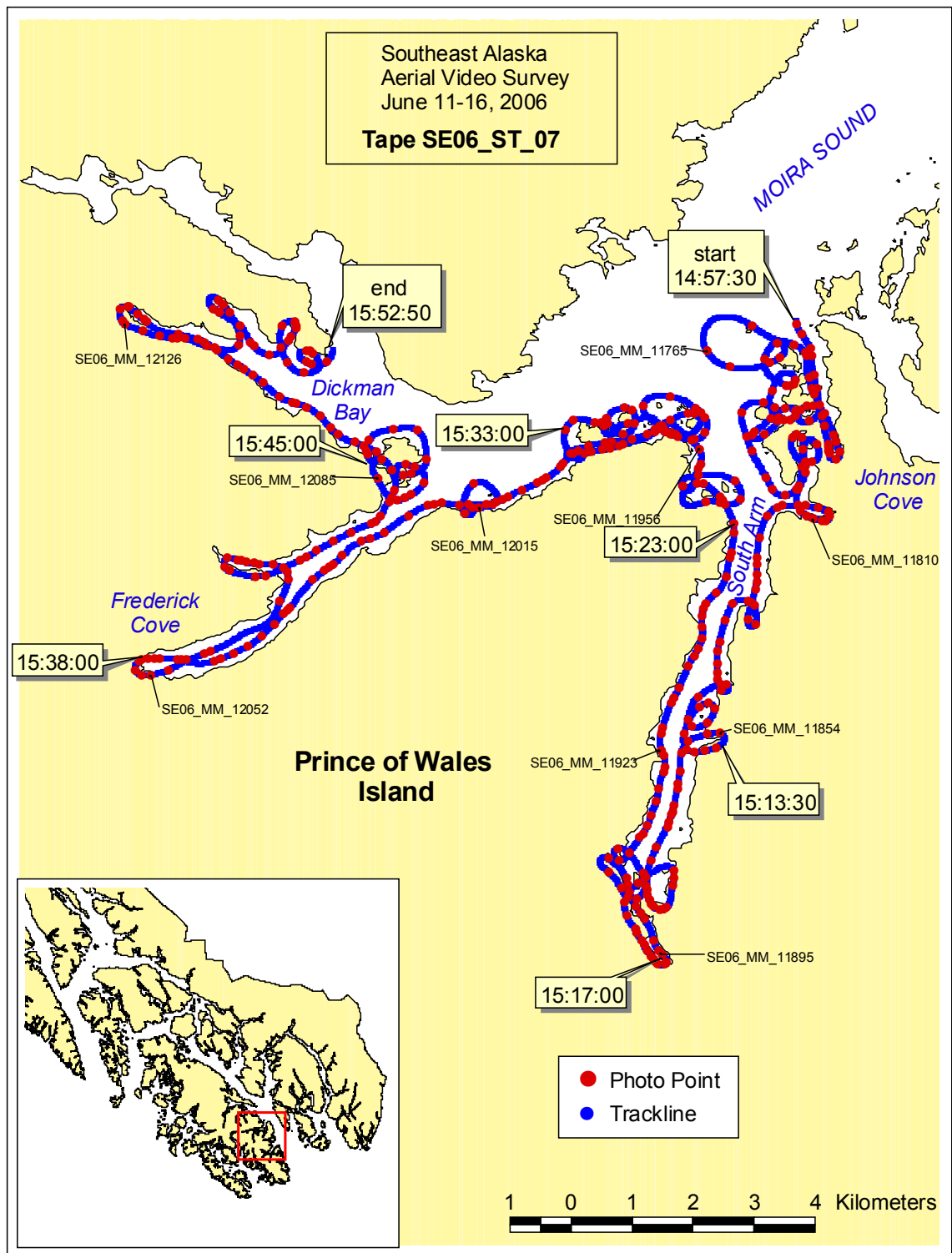


Figure 16. Location of Tape SE06_ST_07, 13 June 2006.

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

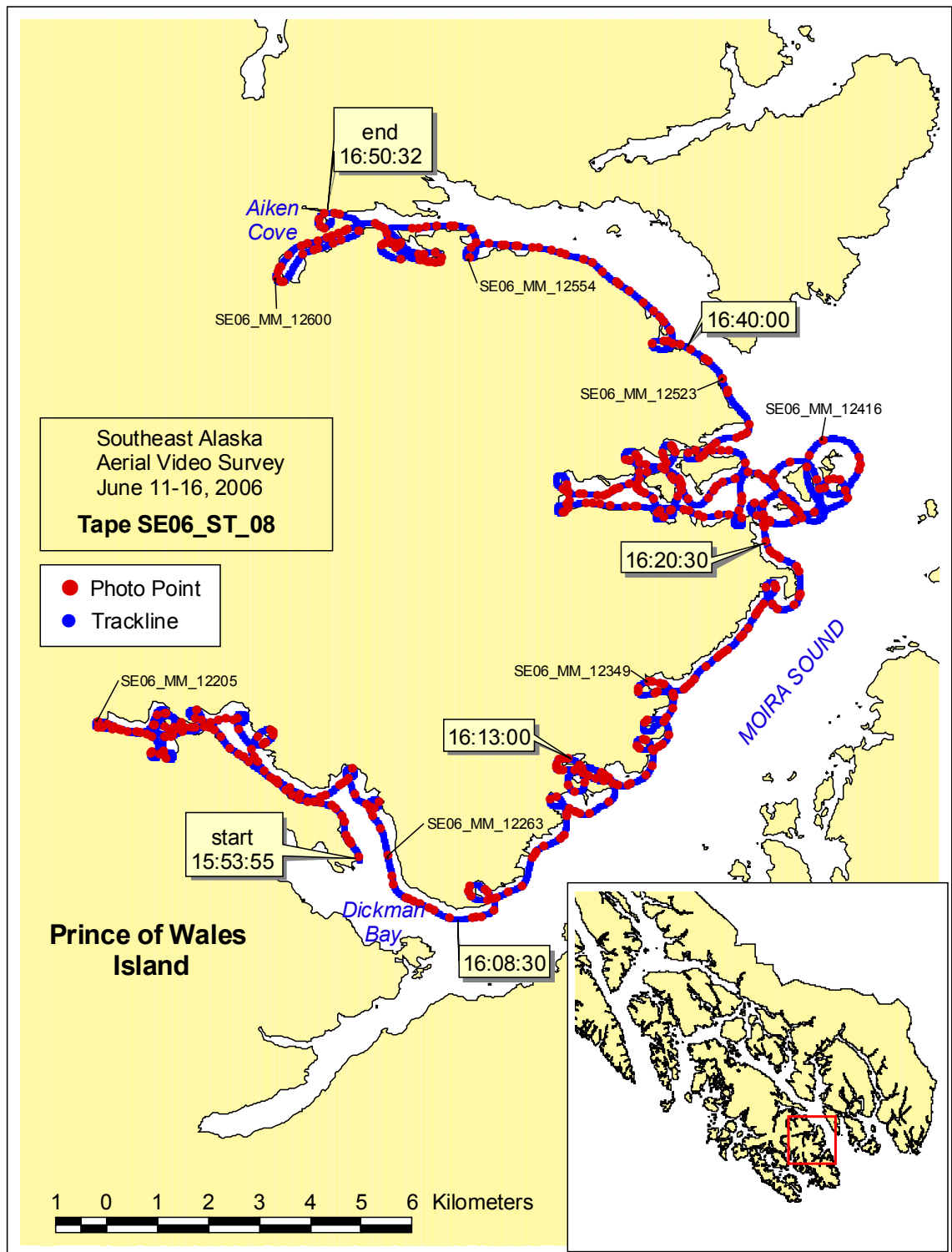


Figure 17. Location of Tape SE06_ST_08, 13 June 2006.

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

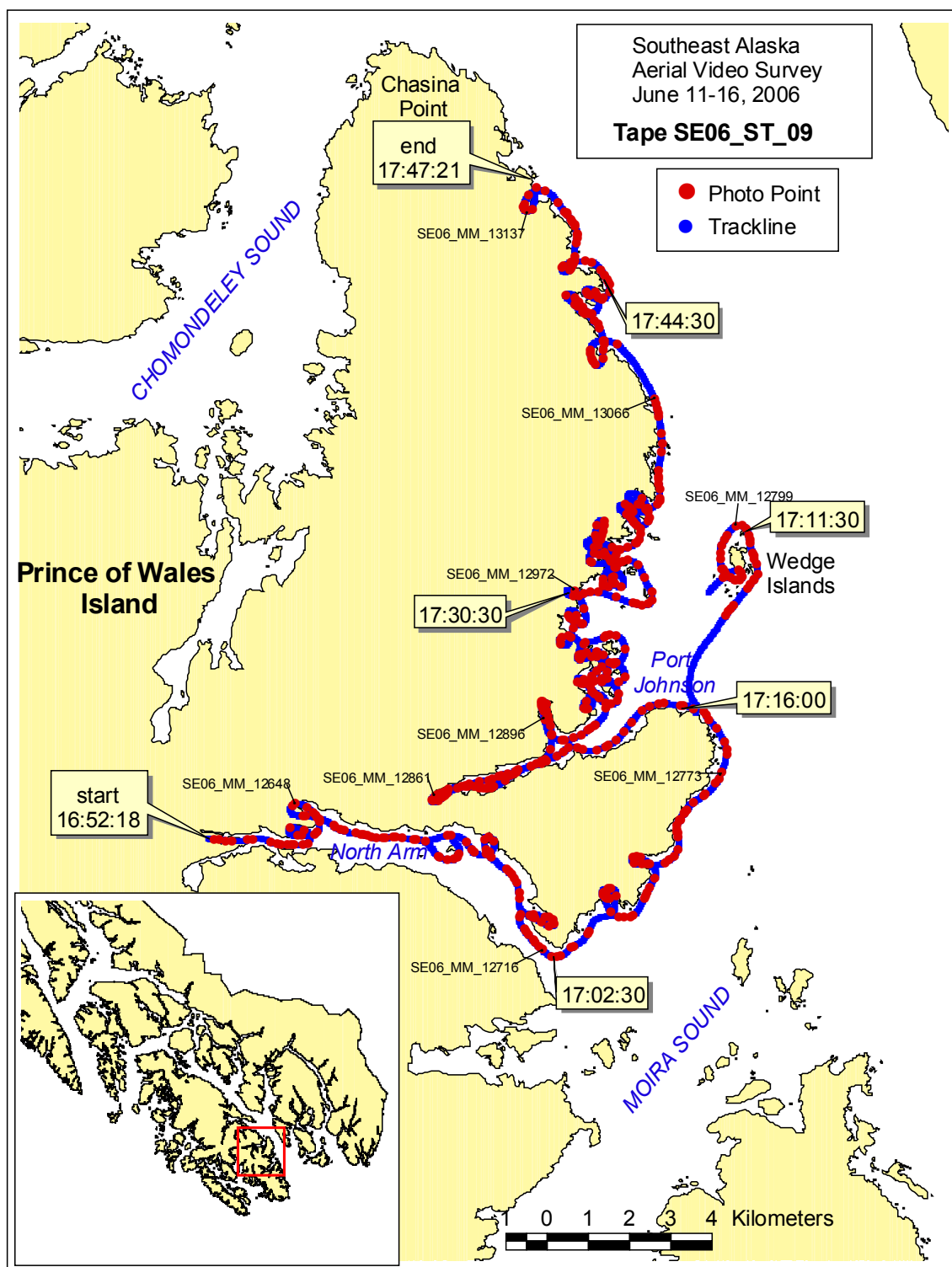


Figure 18. Location of Tape SE06_ST_09, 13 June 2006.

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:

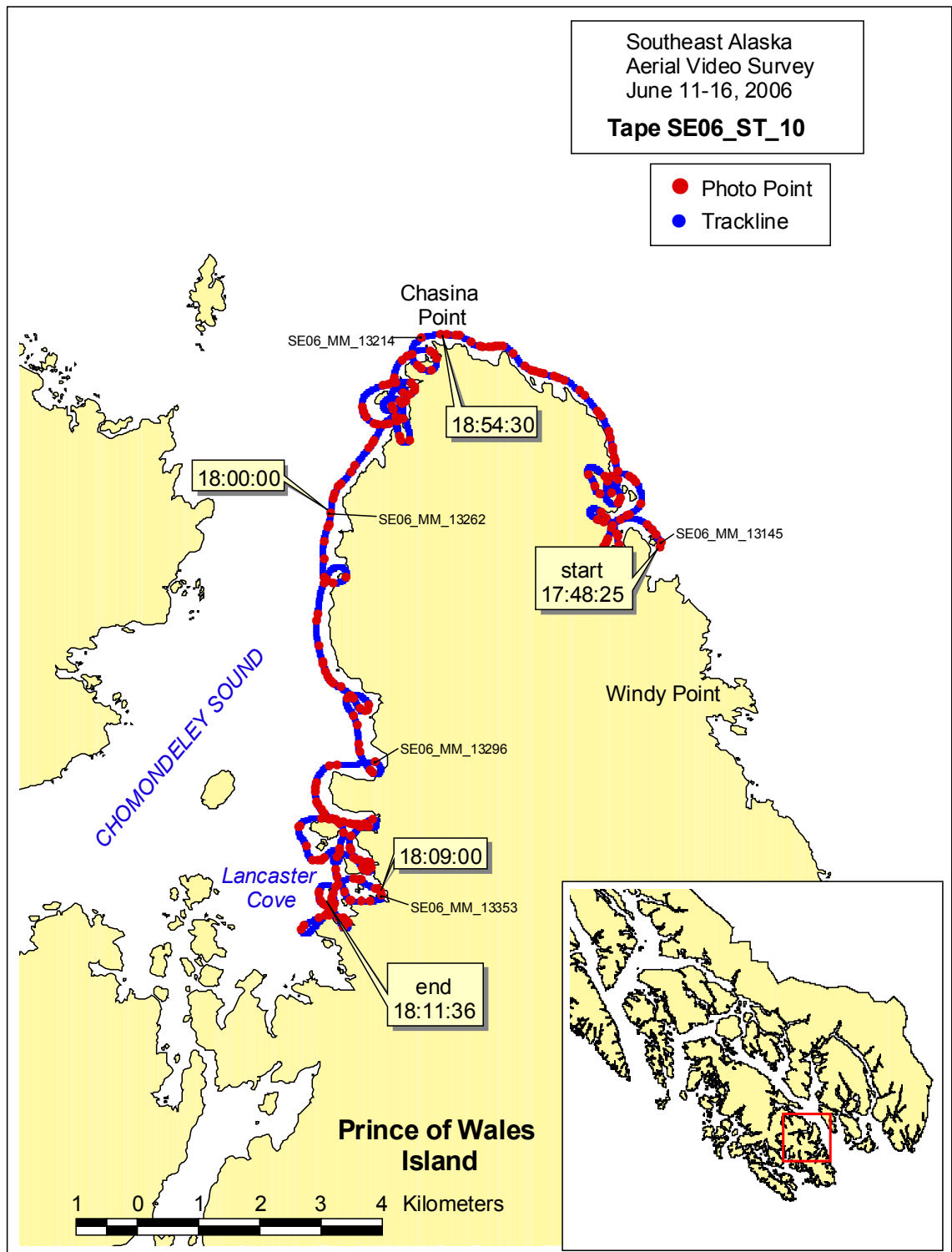


Figure 19. Location of Tape SE06_ST_10, 12 June 2006.

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

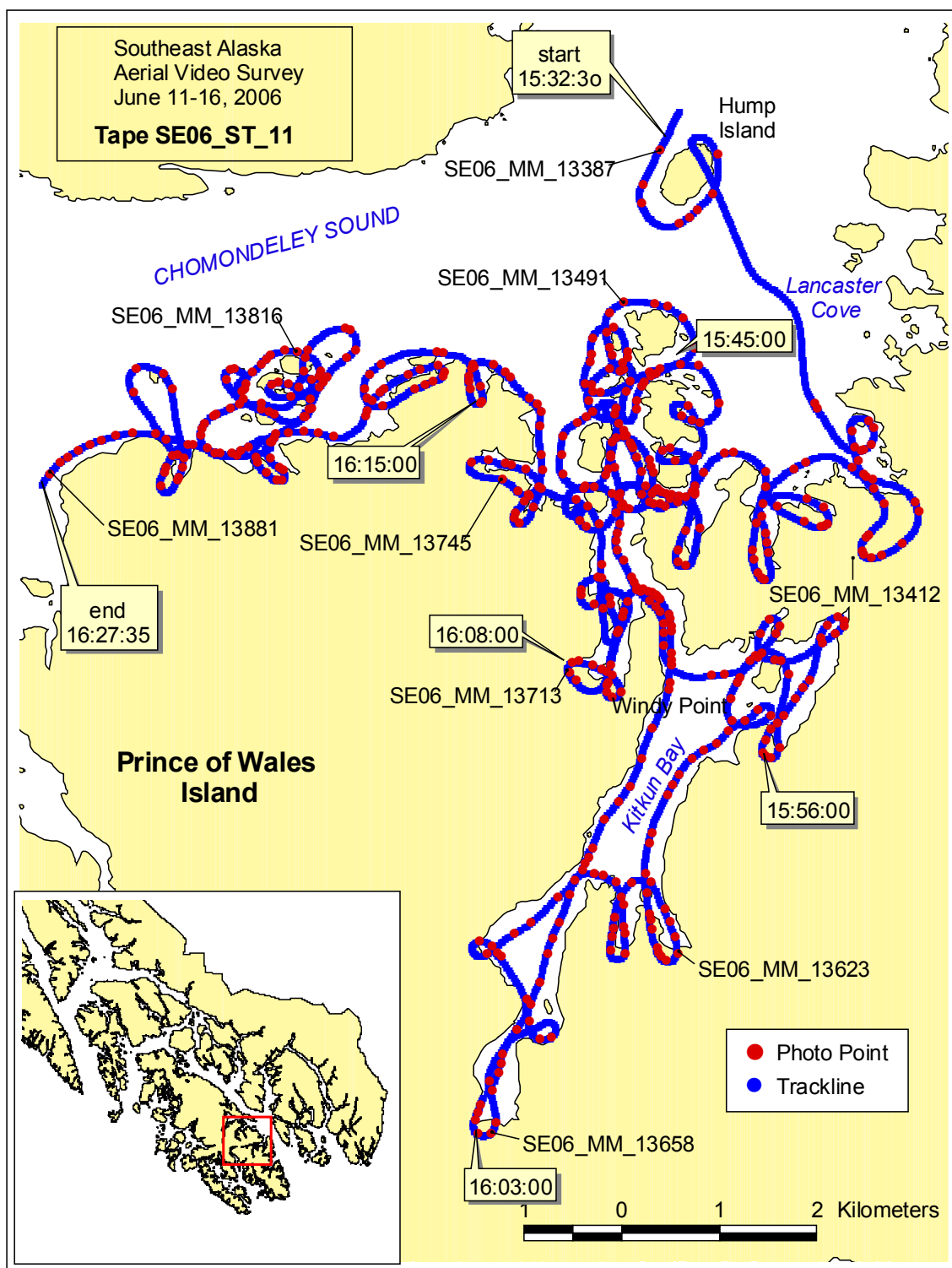


Figure 20. Location of Tape SE06_ST_11, 12 June 2006.

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

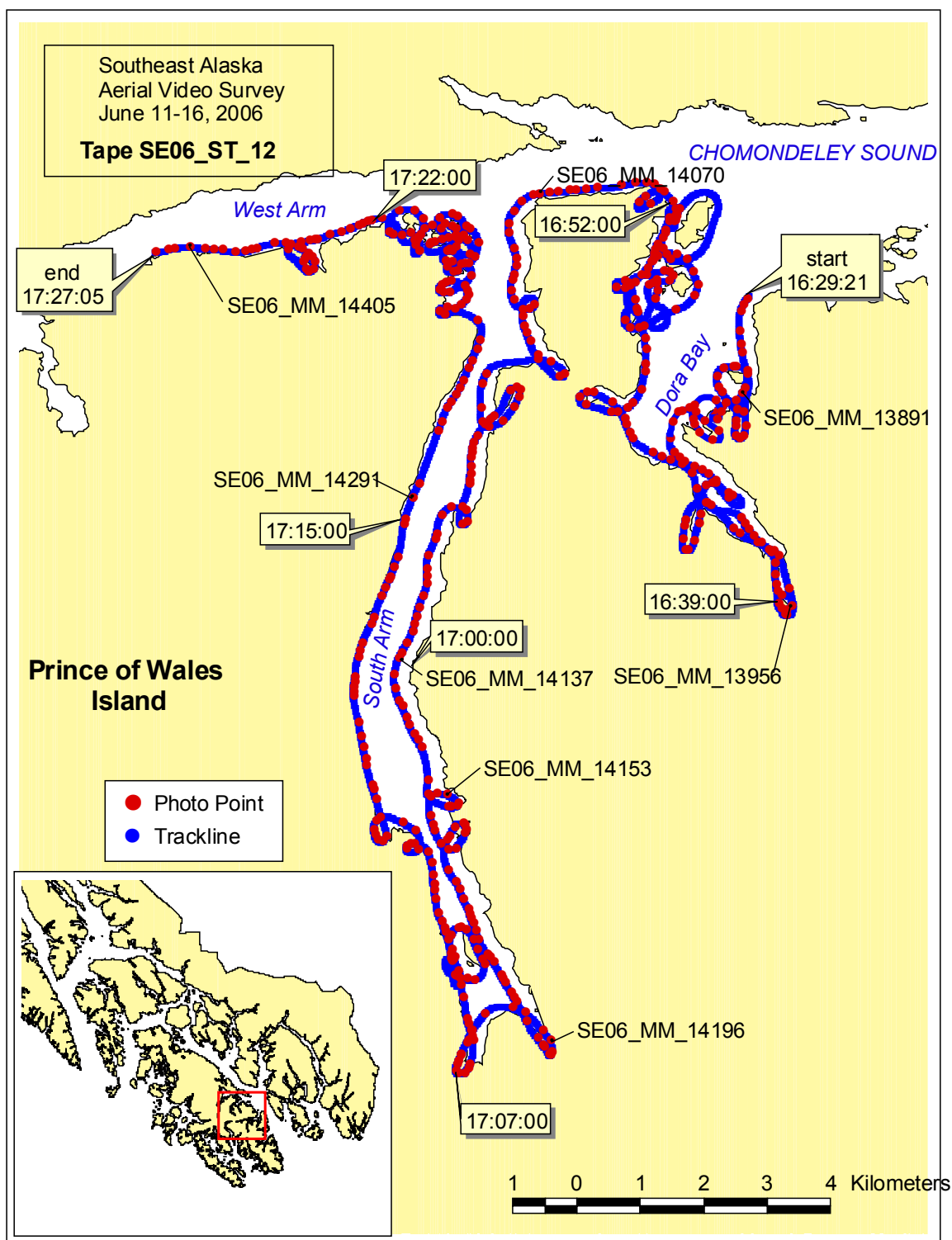


Figure 21. Location of Tape SE06_ST_12, 14 June 2006.

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

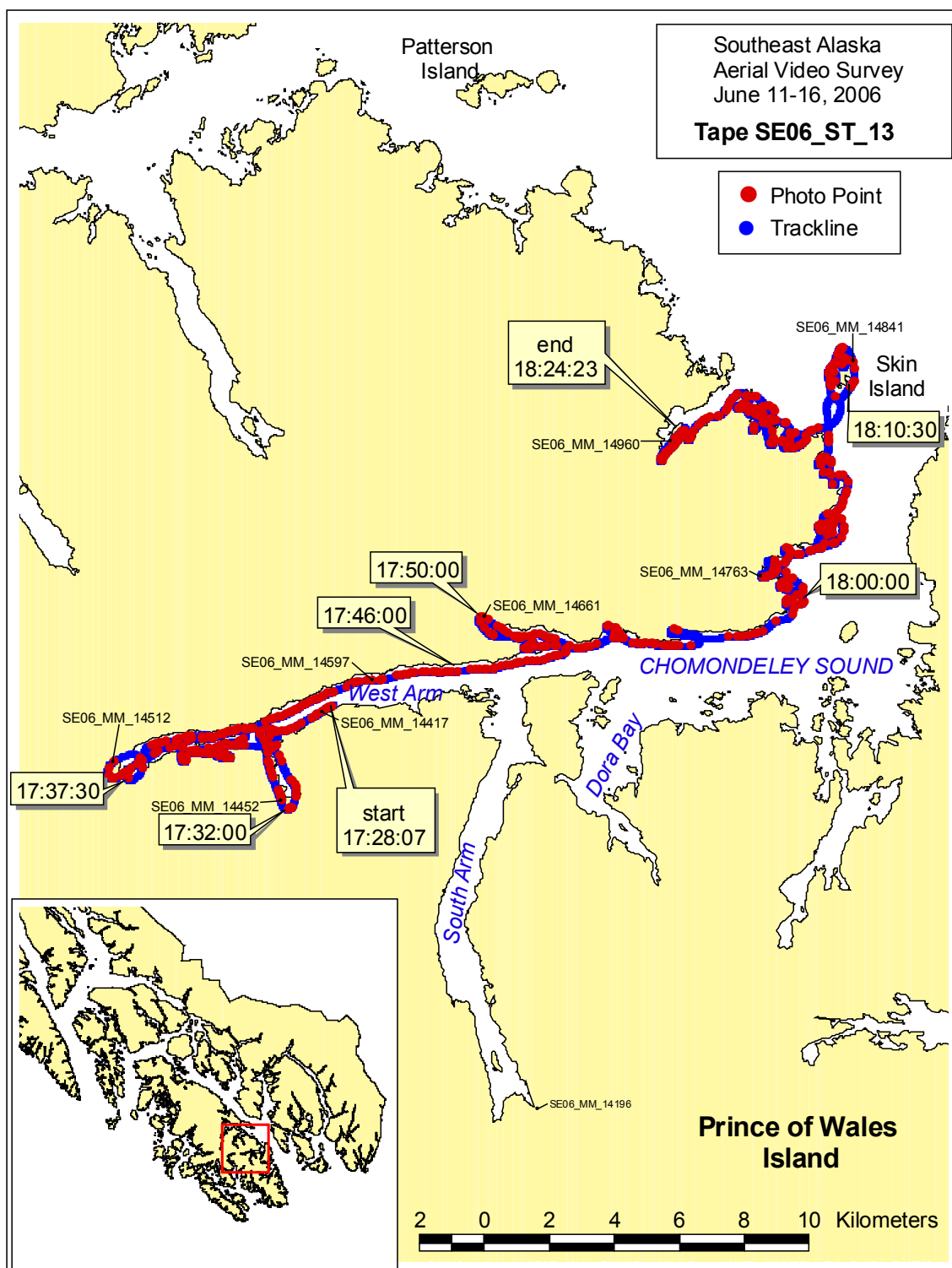


Figure 22. Location of Tape SE06_ST_13, 14 June 2006.

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

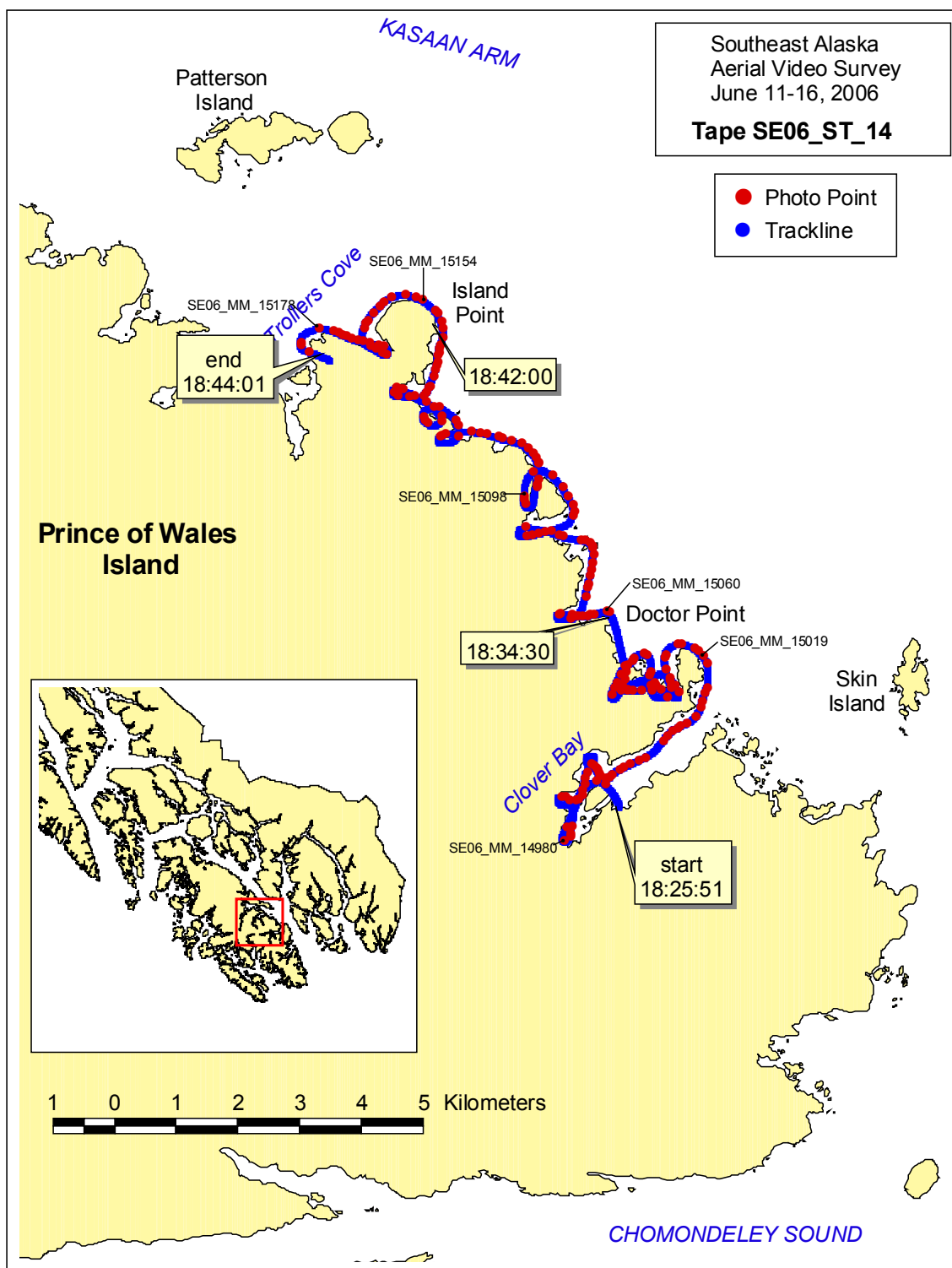


Figure 23. Location of Tape SE06_ST_14, 14 June 2006.

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

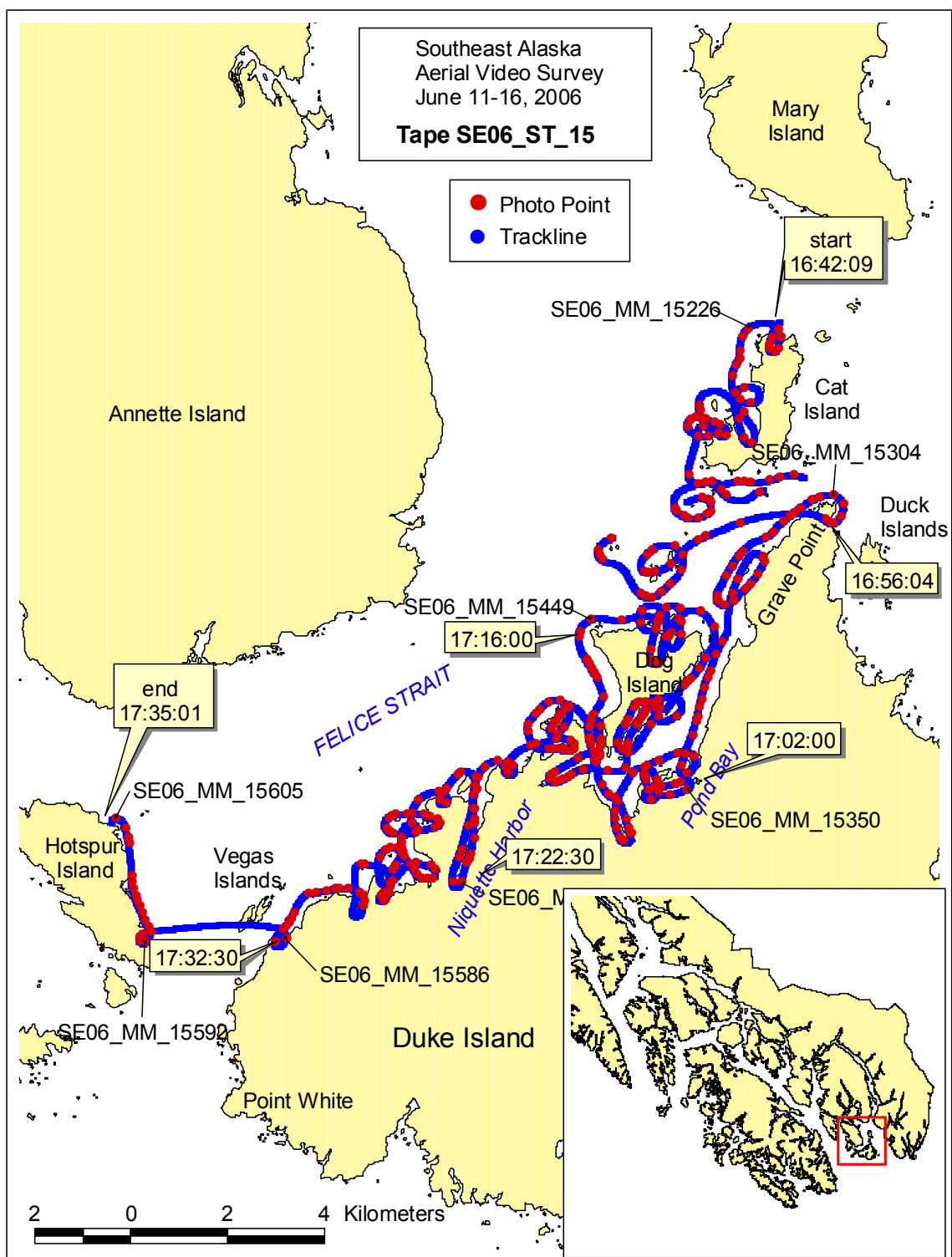


Figure 24. Location of Tape SE06_ST_15, 15 June 2006.

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

Tape: SE06_ST_15 **Date:** 15 Jun 06

General Location: Cat, Duke, Dog, Hotspur Islands (southeast of Revillagigedo Island)

Time Start (UTC):	16:42:09	Geo:	Harney
Fuel Break:	none	Bio:	Morris
Time End (UTC):	17:35:01	Nav:	Ward
Tape Length:	52 min, 52 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
164209	start N. tip Cat Island	SE06 MM 15225
164842	complete Cat Island	SE06 MM 15261
165604	Grave Point, Duke Island	SE06 MM 15304
170200	Pond Bay	SE06 MM 15349
171600	Dog Island	SE06 MM 15451
172230	Niquette Harbor	SE06 MM 15506
173230	complete Duke Island, opposite Vegas Islands	SE06 MM 15586
173340	S. end Hotspur Island	SE06 MM 15590
173501	end E. side Hotspur Island	SE06 MM 15605

Note: No refuel or other tape breaks

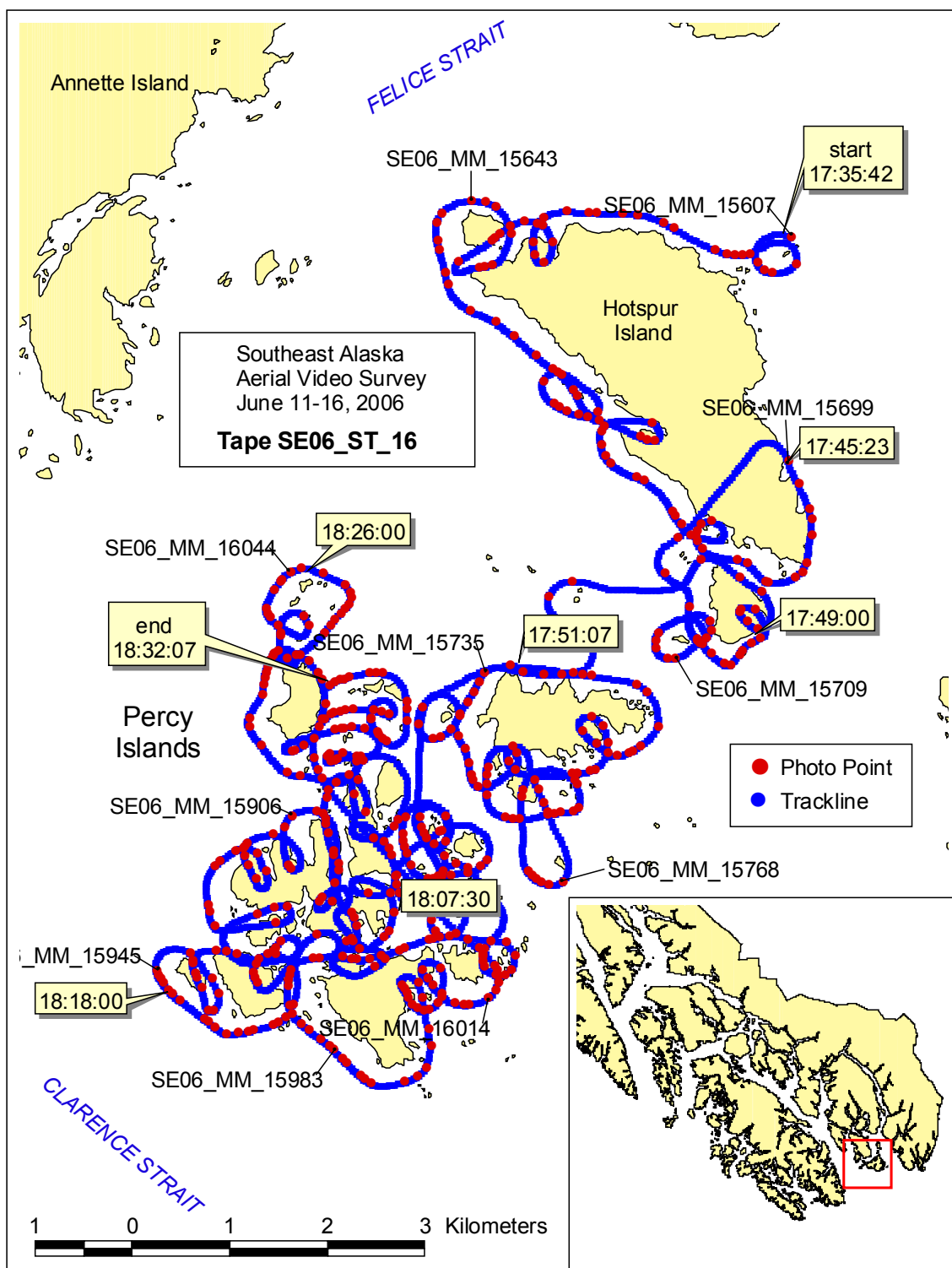


Figure 25. Location of Tape SE06_ST_16, 15 June 2006.

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

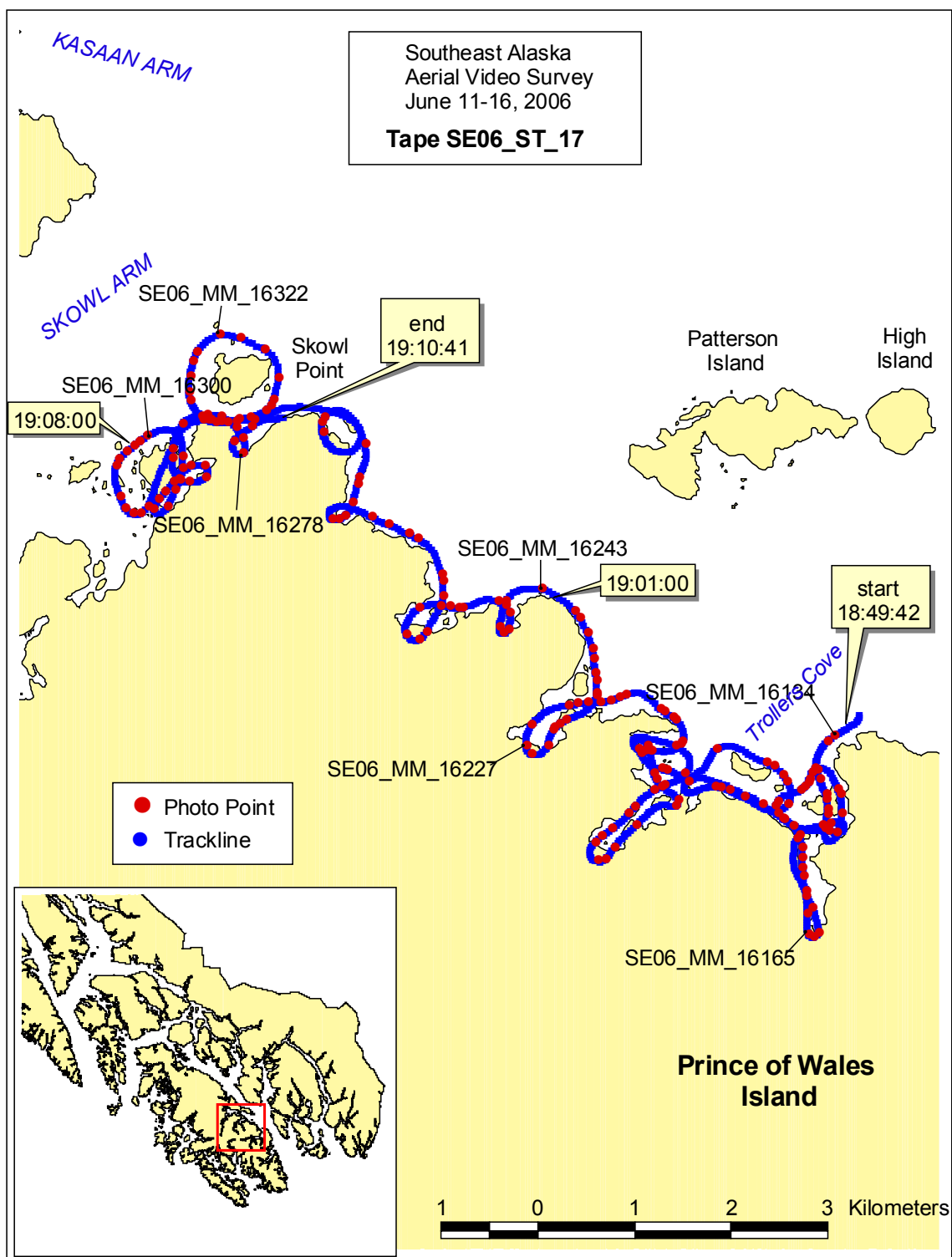


Figure 26. Location of Tape SE06_ST_17, 15 June 2006.

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

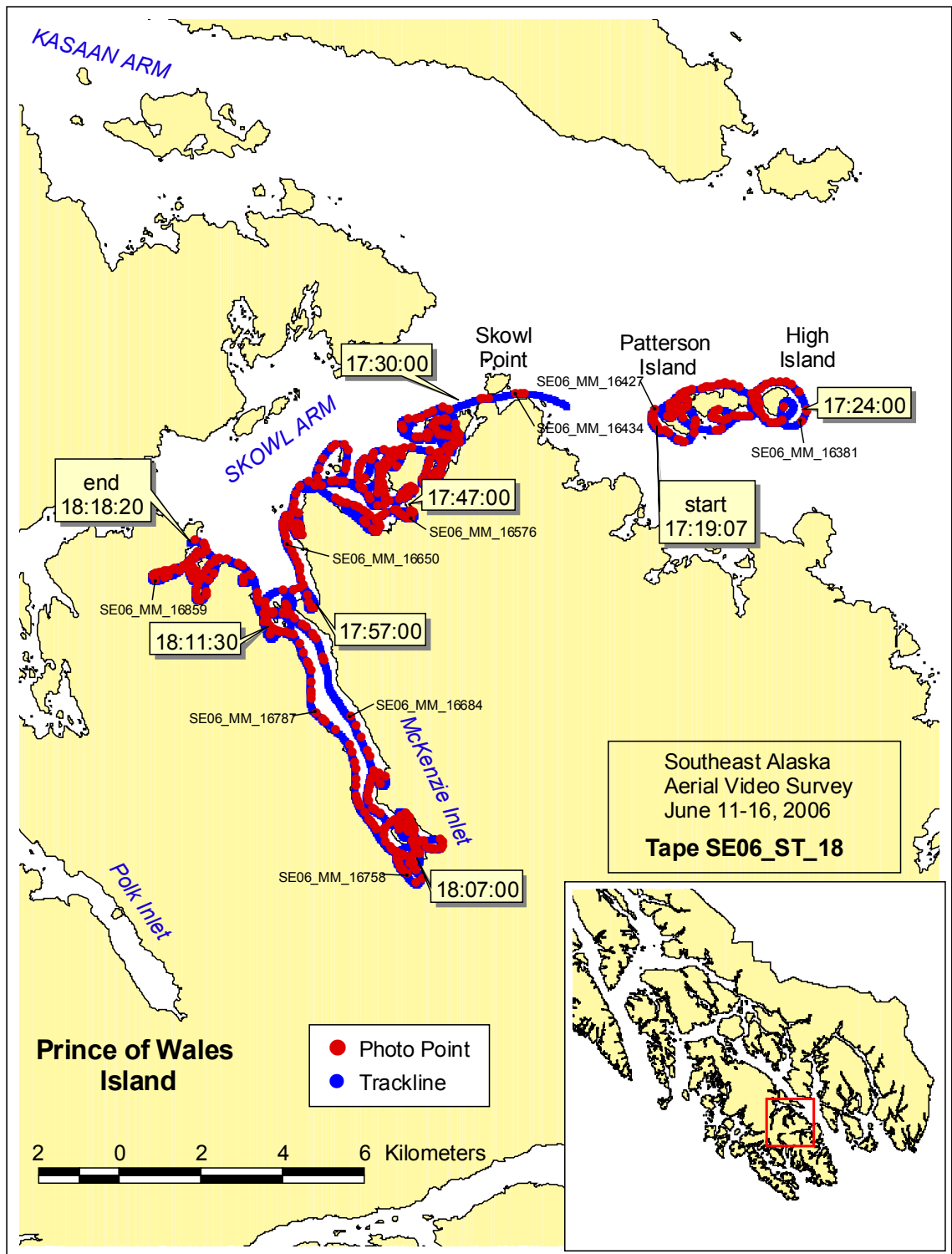


Figure 27. Location of Tape SE06_ST_18, 16 June 2006.

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

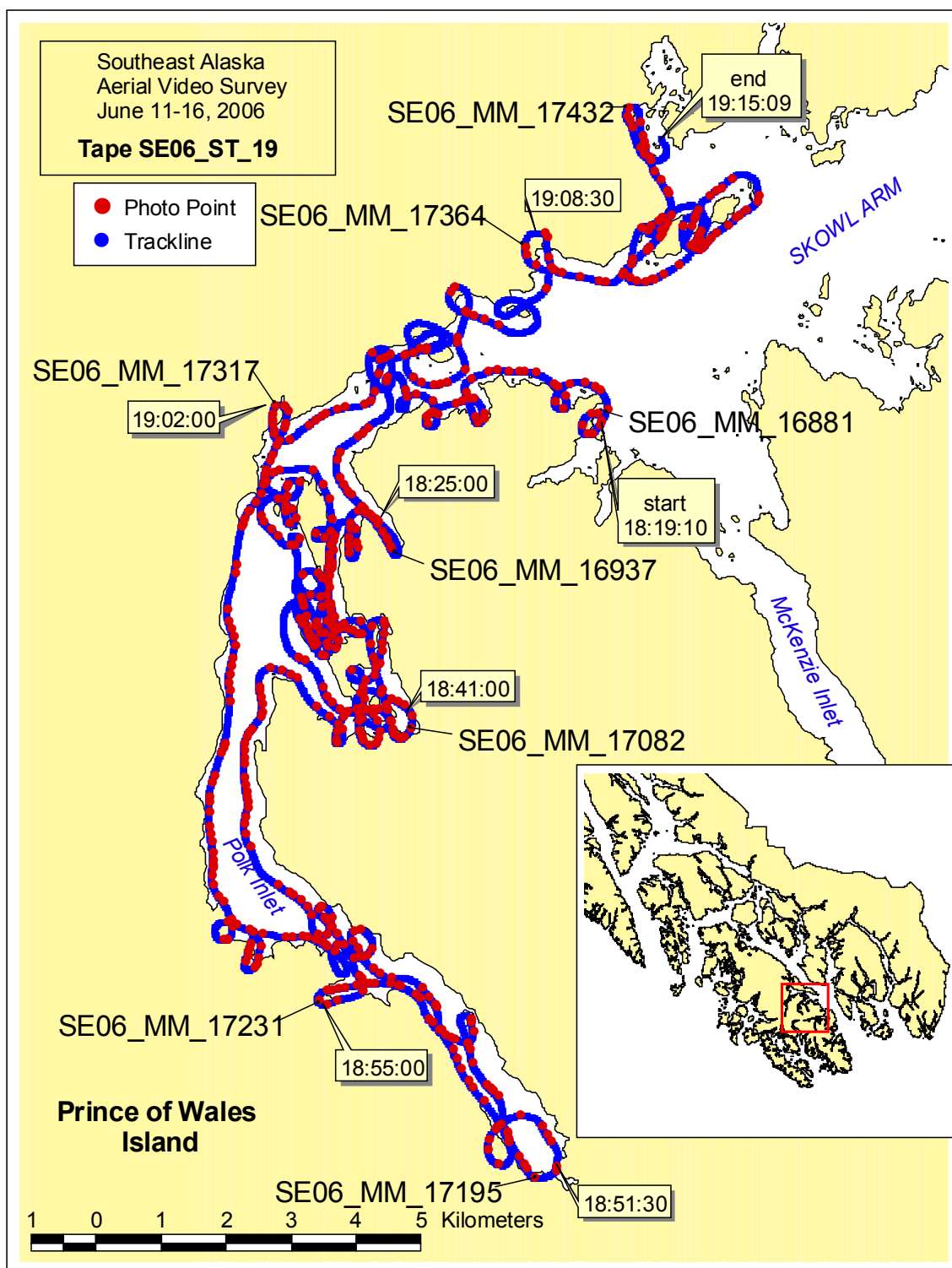


Figure 28. Location of Tape SE06_ST_19, 16 June 2006.

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

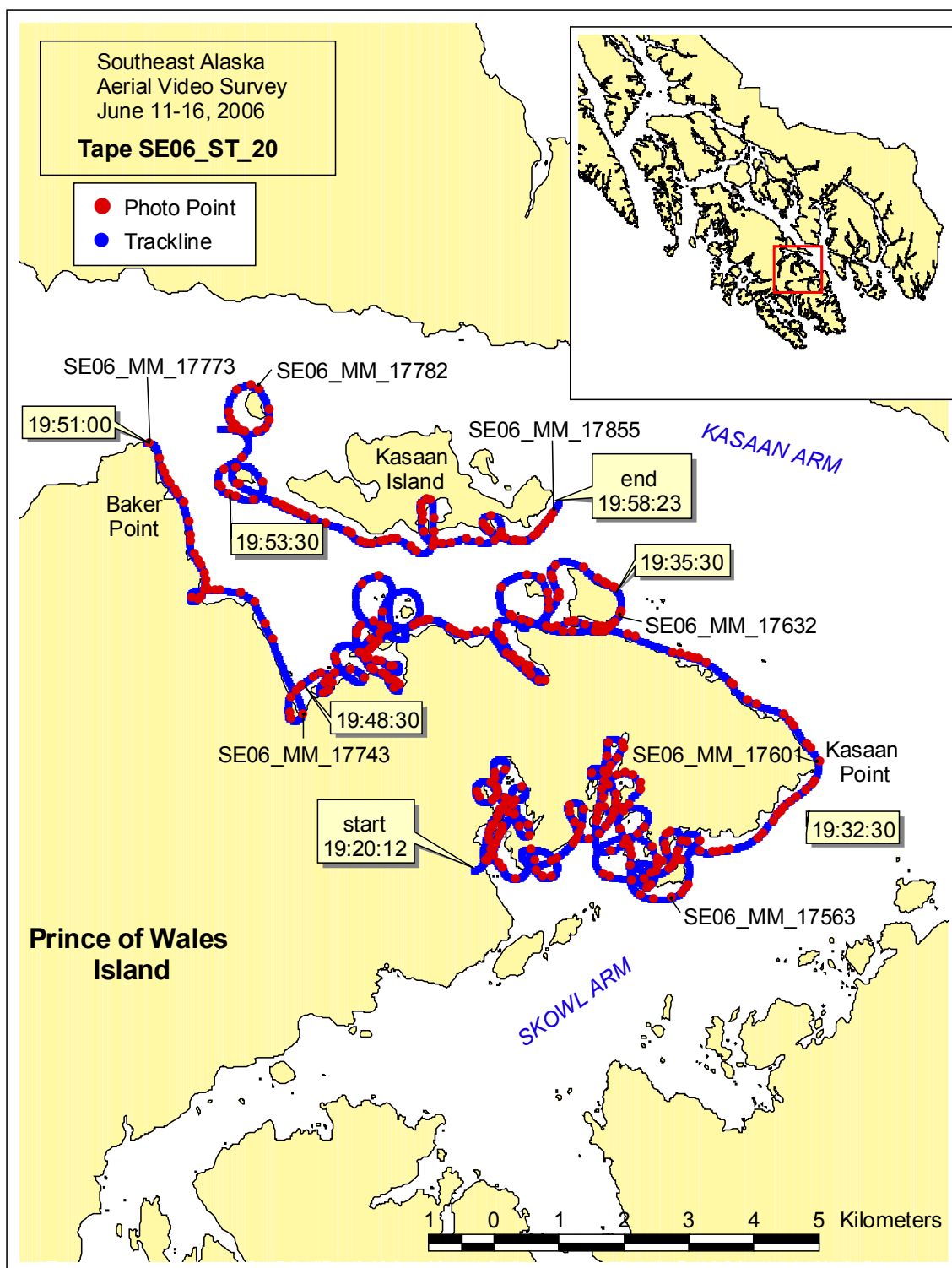


Figure 29. Location of Tape SE06_ST_20, 16 June 2006.

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