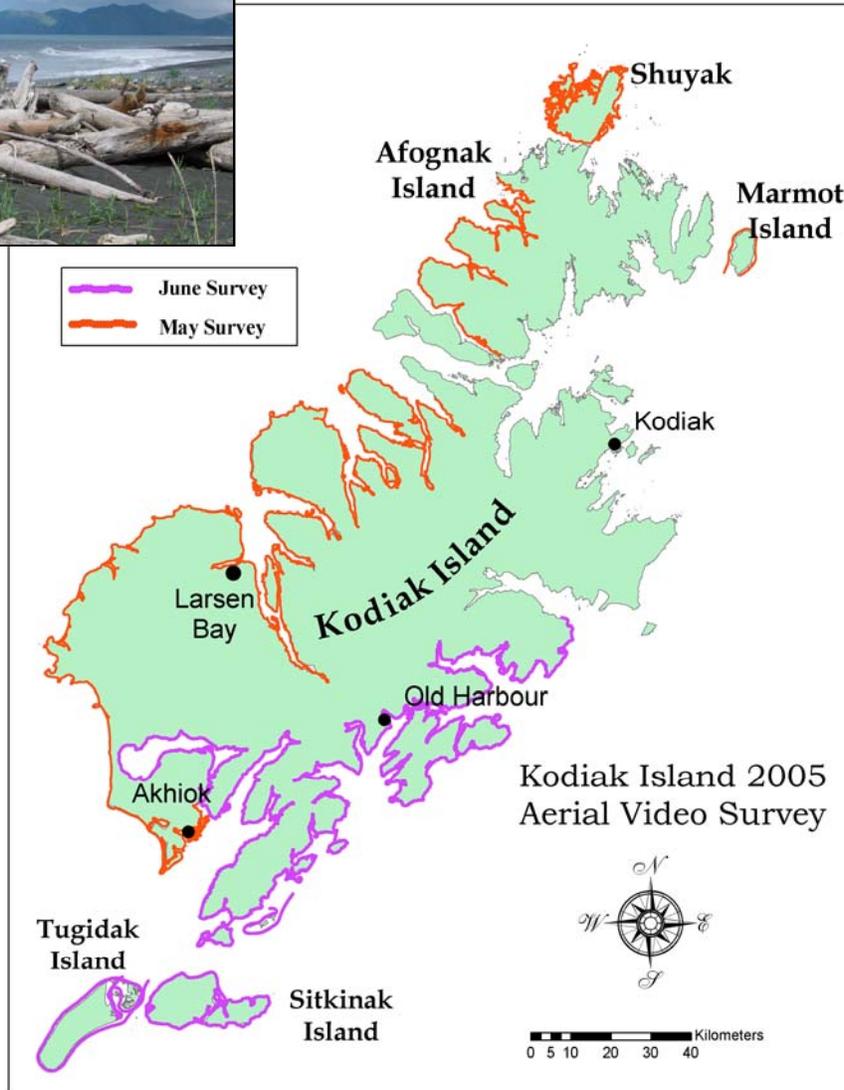


2005 Aerial Video Imaging Surveys, Kodiak Island, Alaska (22-29 May, & 21-24, 27 June 2005)



prepared for
Cook Inlet Regional Citizen's Advisory Committee
Exxon Valdez Oil Spill Trustee Council



INTRODUCTION

This survey involved the use of digital video camera technology to image the shoreline of Kodiak, and adjacent islands 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 could 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 Cook Inlet Regional Citizen Advisory Council, as part of the Gulf of Alaska Ecosystem Monitoring and Research Program; a program of the *Exxon Valdez* Oil Spill Trustee Council.

Figures 1 and 2 show the overall flight coverages by tape number for each of the May and June surveys. The flight crew names and responsibilities are summarized in Table 1. We very much appreciate the assistance of Maritime Helicopters, and the principle pilot in this survey, Tom Walters. His flight expertise and local knowledge contributed greatly to the success of this survey.

Table 1 AVI Flight Personnel and Responsibilities

Function	Individual/ Affiliation	Responsibilities
<i>geomorphologist project leader</i>	John Harper 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>	Neil Borecky (May) Sheri Ward (June) CORI	in flight navigation & recording post-flight track plotting
<i>pilot</i>	Tom Walters – Maritime Helicopters, Homer, AK	pilot

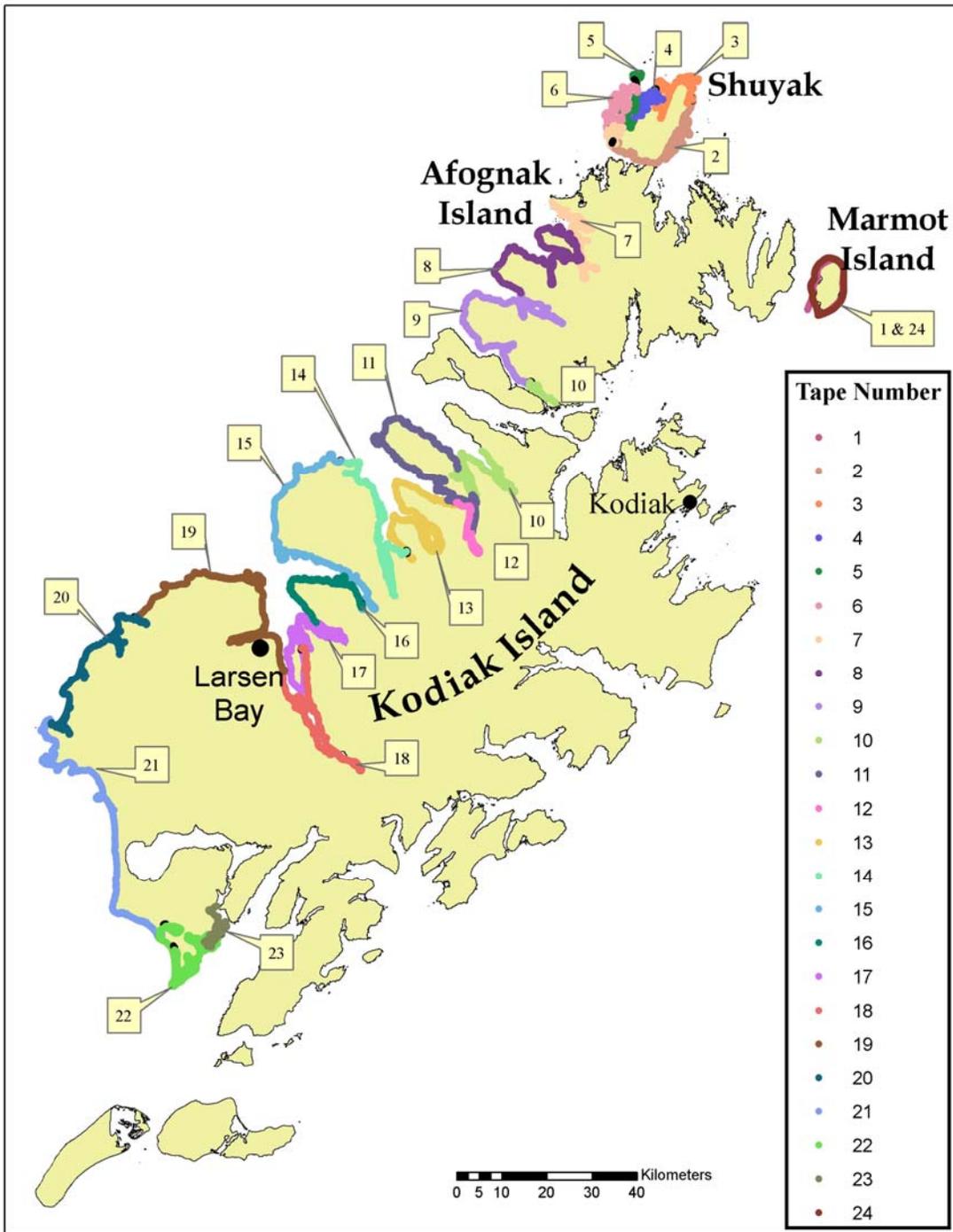


Figure 1. Location of tape coverage during the May 2005 Kodiak Island Aerial Video Survey

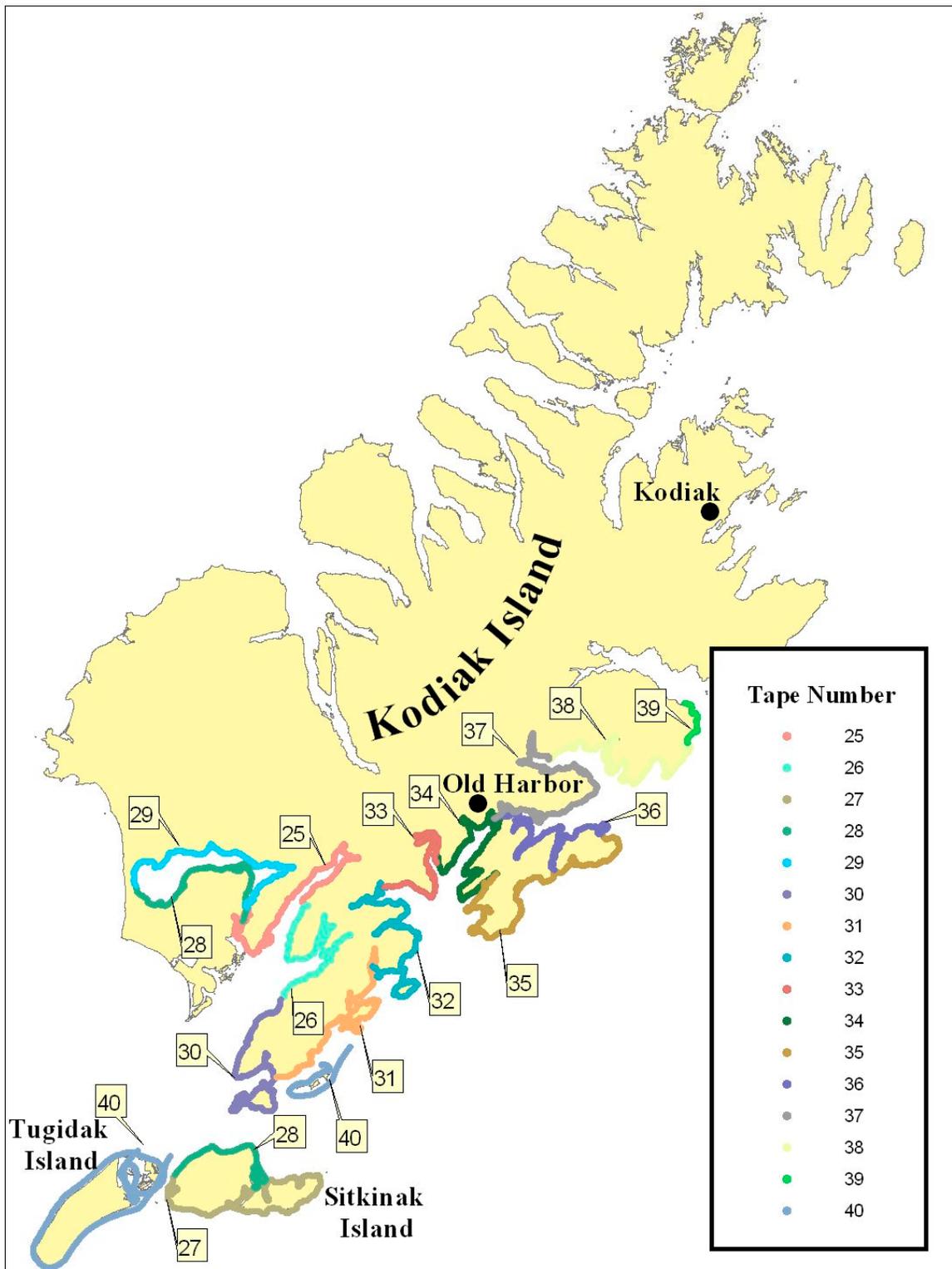
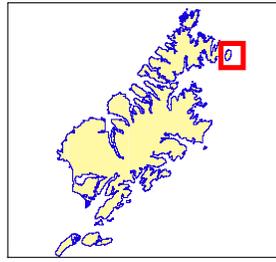
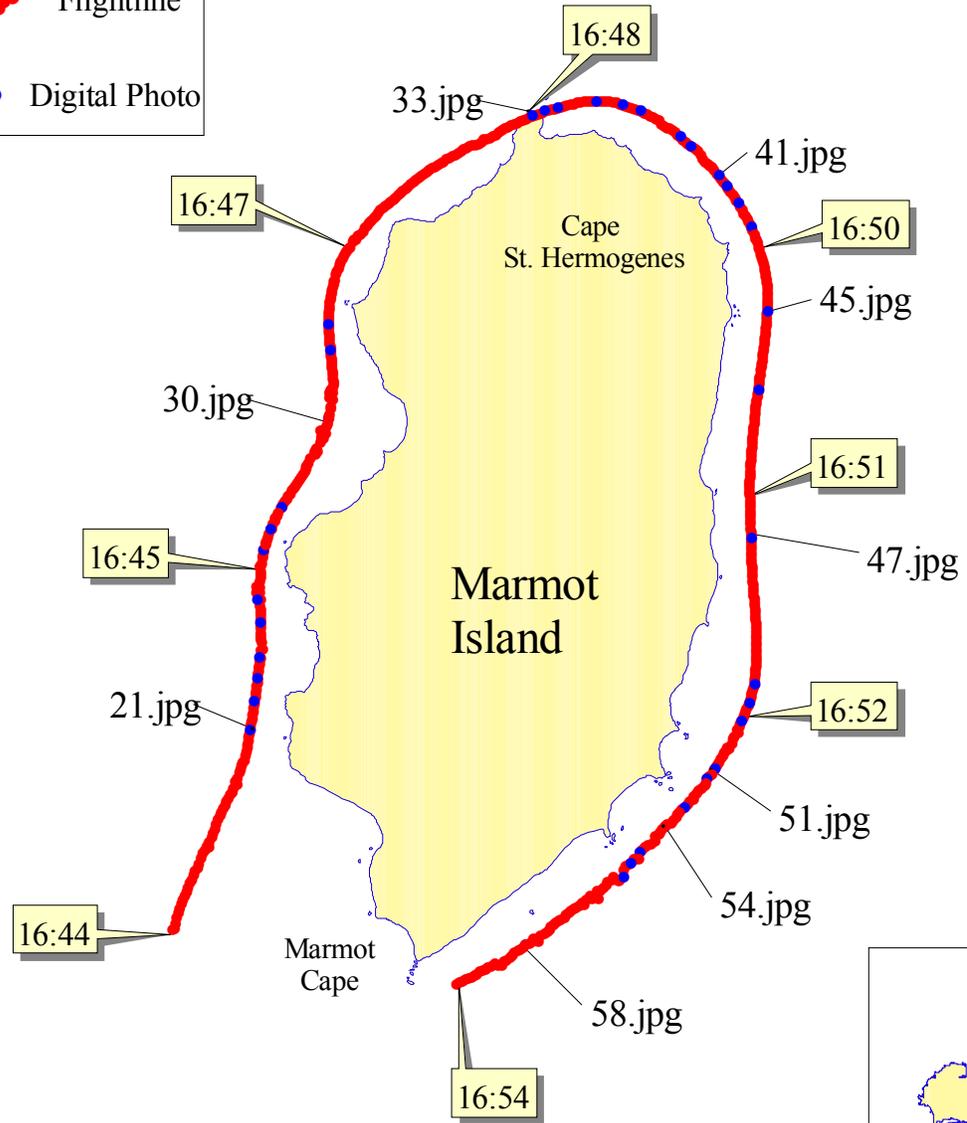


Figure 2. Location of tape coverage during the June 2005 Kodiak Island Aerial Video Survey

May 2005
Kodiak Island AVI
Tape 1

 Flightline
 Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 1

General Location: Marmot Island

Date: May 22, 2005

Time Start: 16:44:00

Time End: 16:54:20

Tape Length: 10:36

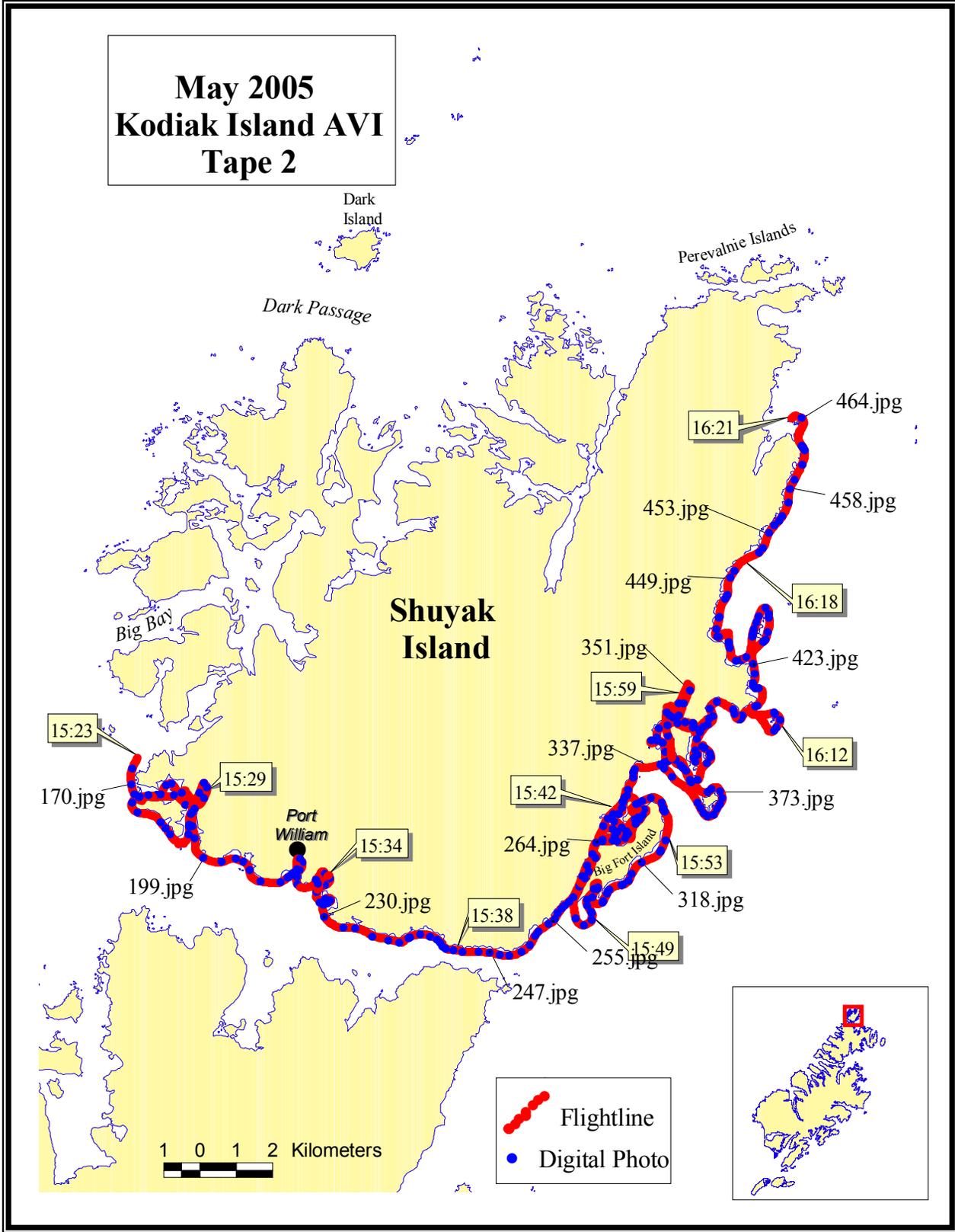
Weather: Low overcast with fog

Electronic File Names: kdk23may05_1.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
16:44:00	Marmot Strait (Start)		16604	53
16:45:00	Marmot Strait	22	16604	53
16:48:44	North Marmot Island	33	16604	53
16:49:56	Cape St. Hermogenes	44	16604	53
16:52:12	E. side Marmot Island	48	16604	53
16:53:56	S. side Marmot Island	58	16604	53
16:54:20	Marmot Cape (End)		16604	53

Note: very spotty coverage due to fog; only about 50% of shoreline imaged.

**May 2005
Kodiak Island AVI
Tape 2**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 2

General Location: Southern and eastern Shuyak Island

Date: May 23, 2005

Time Start: 15:23:46

Time End: 16:22:28

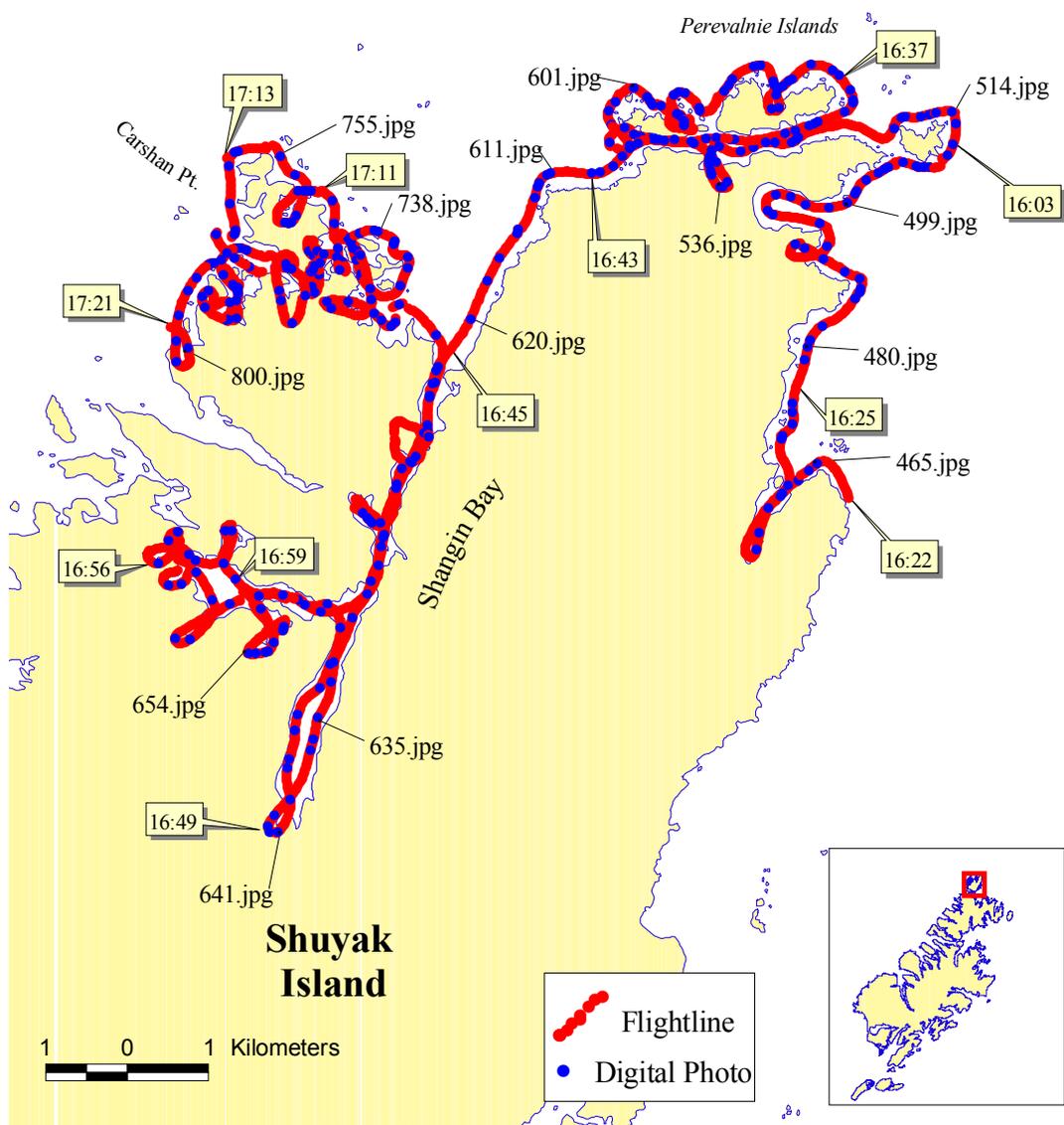
Tape Length: 57:46

Weather: High overcast, moderate to calm winds

Electronic File Names: kdk23may05_1.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
15:23:58	Cape Newland	169	16604	53
15:32:08	Port William	210	16604	53
15:38:48	Cape Current Narrow	249	16604	53
15:48:30	Big Fort Channel	295	16604	53
15:52:14	E. side Big Fort Island	318	16604	53
16:05:12	Tetrakof Pt	376	16604	53
16:21:18	E. Side Shuyak Island	464	16604	53

**May 2005
Kodiak Island AVI
Tape 3**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 3

General Location: N. Side Shuyak, Perevalnie Passage, Shangin Bay, Carhsan Point.

Date: May 23, 2005

Time Start: 16:22:28

Time End: 17:21:21

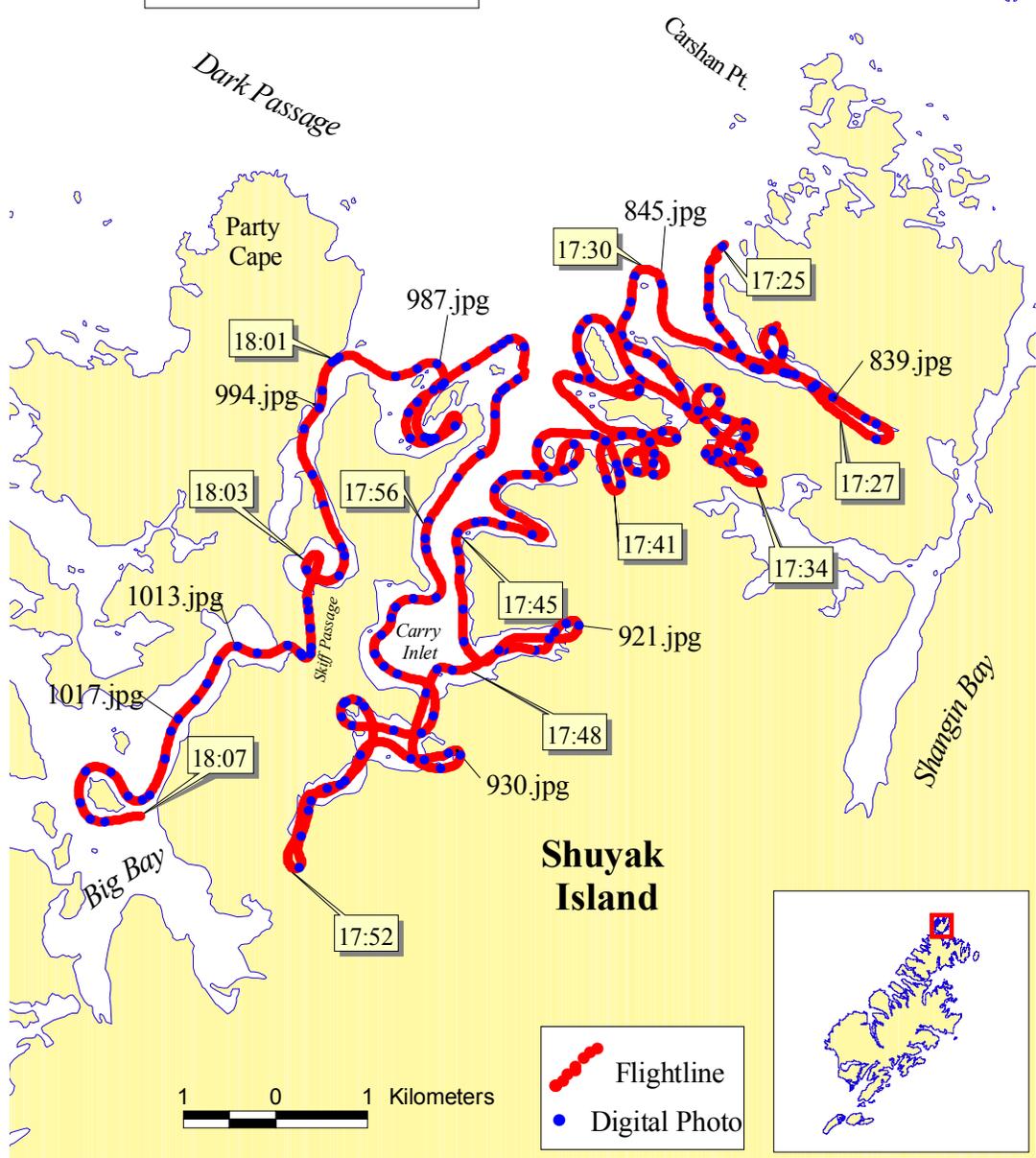
Tape Length: 59:54

Weather: High overcast, moderate to calm winds

Electronic File Names: kdk23may05_1.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
16:25:52	NE side of Shuyak Island	479	16604	53
16:32:48	Perevalnie Passage	524	16604	53
16:44:26	E. entrance to Shangin Bay	616	16604	53
16:49:44	Head of Shangin Bay	641	16604	53
16:56:30	Complex lagoon Shangin Bay	667	16604	53
17:03:54	W. entrance to Shangin Bay	696	16604	53
17:13:54	Carshan Pt.	755	16604	53
17:21:06	End near Carry Inlet	800	16604	53

**May 2005
Kodiak Island AVI
Tape 4**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 4

General Location: Carry Inlet, Skiff Passage, Big Bay

Date: May 23, 2005

Time Start: 17:25:00

Time End: 18:07:44

Tape Length: 47:45

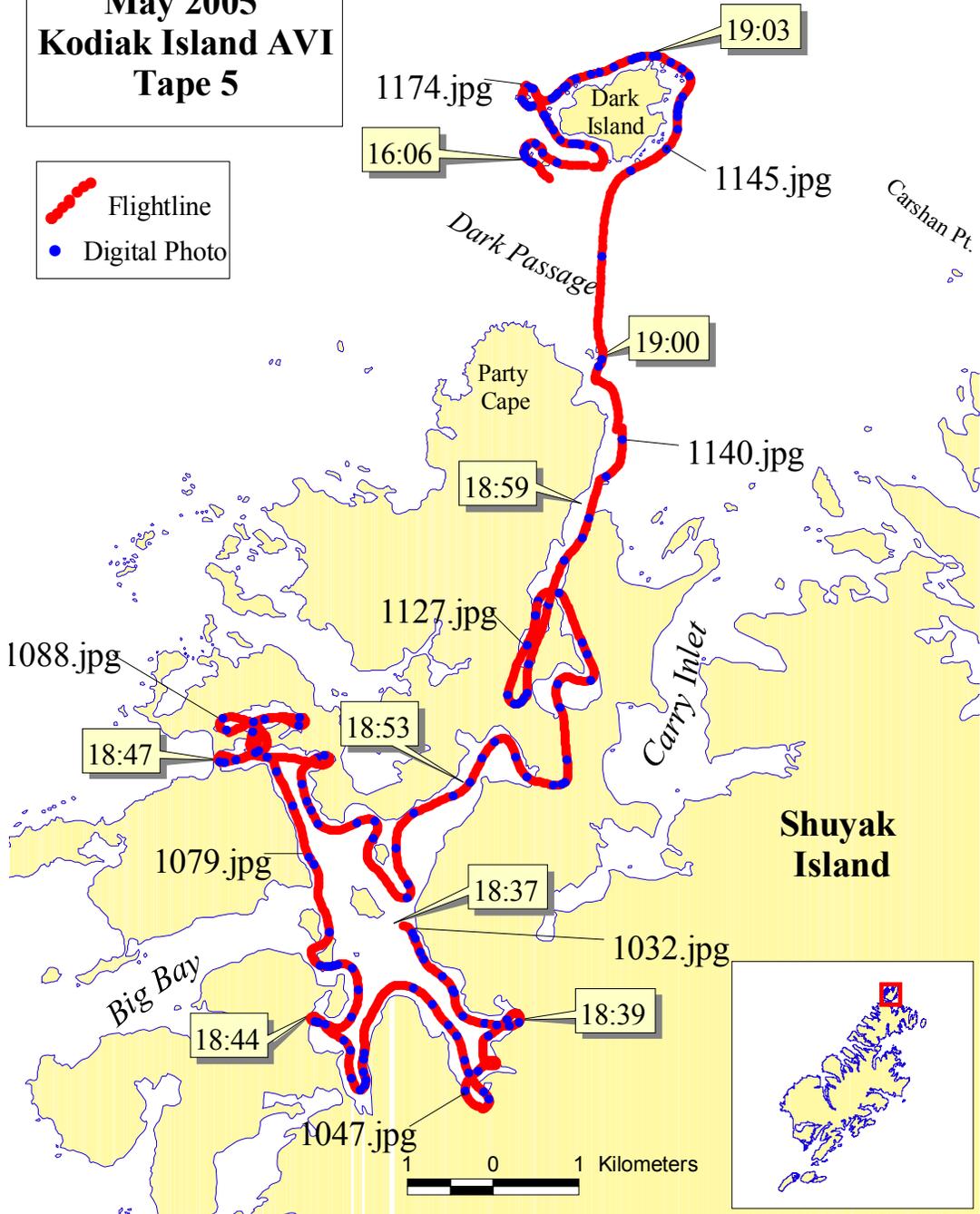
Weather: High overcast, moderate to calm winds

Electronic File Names: kdk23may05_1.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
17:25:20	Entrance to Carry Inlet (exposed and very complex area)	820	16604	53
17:38:52	Mouth of Carry Inlet (less exposed)	882	16604	53
17:52:00	Head of Carry Inlet	956	16604	53
18:01:12	N entrance to Skiff Passage	991	16604	53
18:04:56	Big Bay (from Skiff Passage)	1012	16604	53
18:07:30	Big Bay islands (end tape and refuel)	1027	16604	53

**May 2005
Kodiak Island AVI
Tape 5**

-  Flightline
-  Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 5

General Location: Big Bay, Skiff Passage, Party Cape, Dark Island

Date: May 23, 2005

Time Start: 18:37:21

Time End: 19:06:55

Tape Length: 29:33

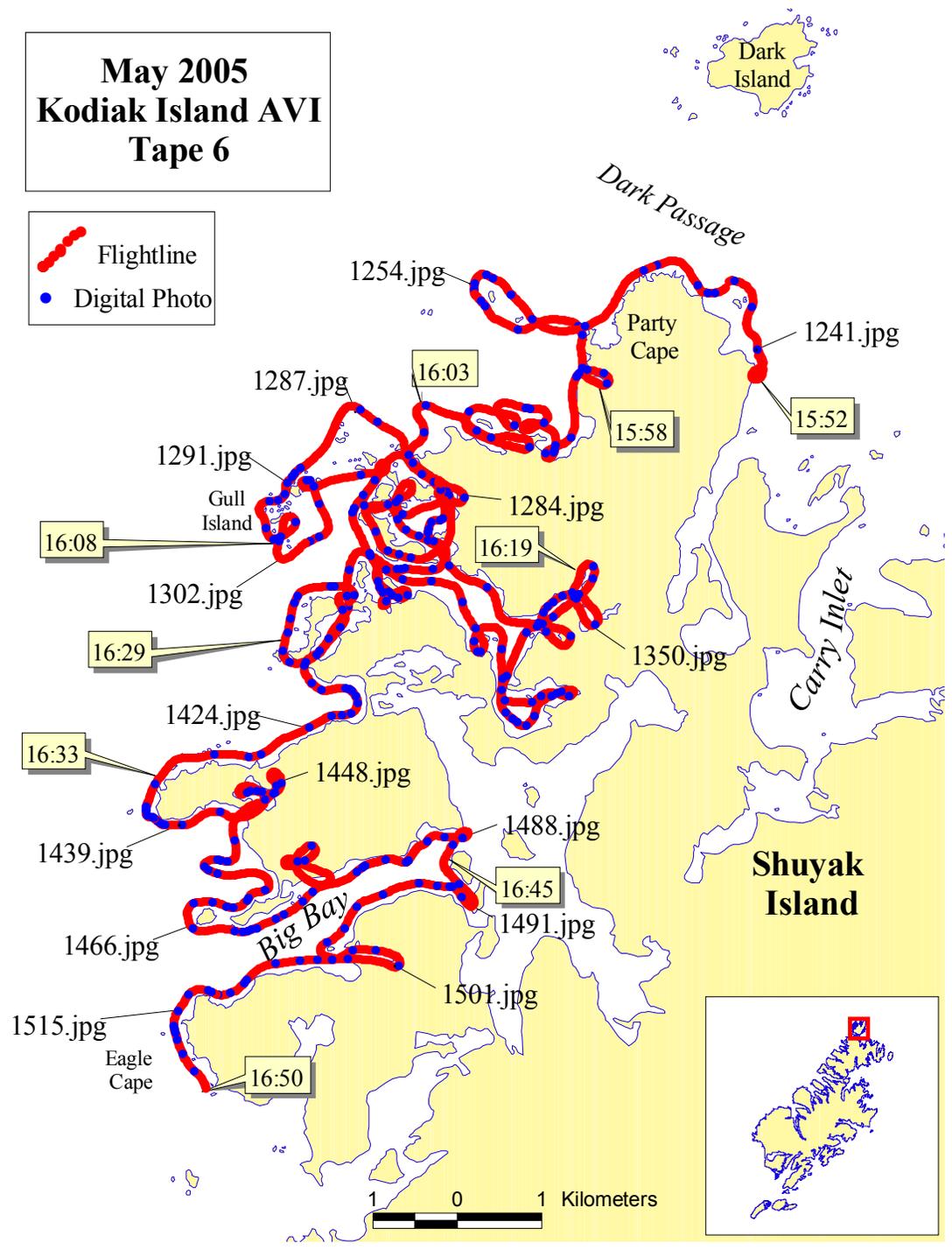
Weather: High overcast to sunny, moderate to calm winds

Electronic File Names: kdk23may05_1.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
18:37:30	Big Bay	1032	16604	53
18:48:52	Complex lagoon in Big Bay	1088	16604	53
18:55:18	Skiff Passage	1181	16604	53
19:00:26	Party Cape	1142	16604	53
19:02:46	Dark Island	1156	16604	53
19:06:36	Dark Passage	1196	16604	53

**May 2005
Kodiak Island AVI
Tape 6**

● Flightline
● Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 6

General Location: Shuyak Island; Party Cape, Wonder Bay, Eagle Cape

Date: May 24, 2005

Time Start: 15:53:03

Time End: 16:50:41

Tape Length: 57:36

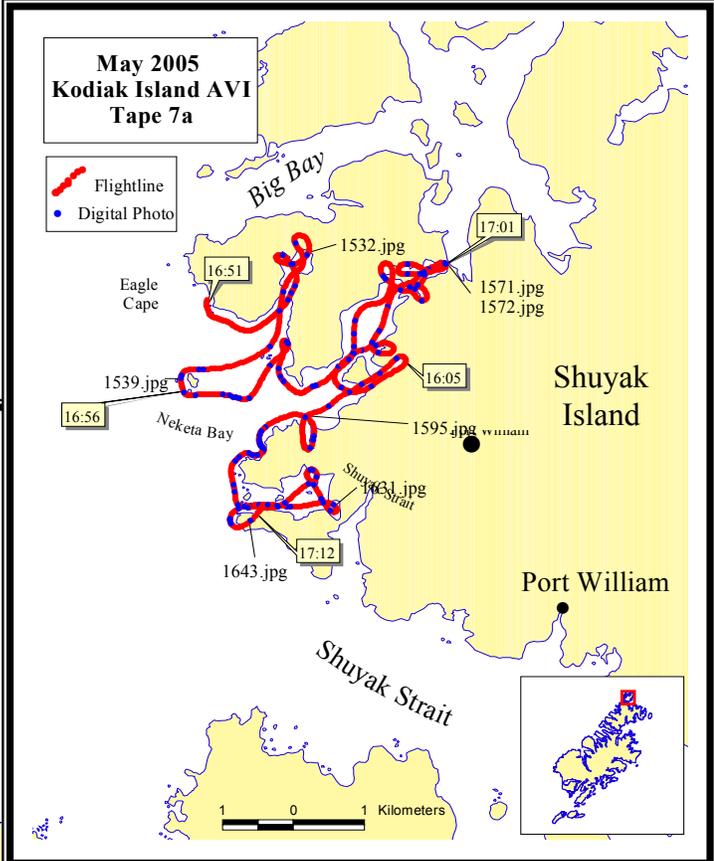
Weather: Clear, calm, sunny

Electronic File Names: kdkmay24.trk, kdkmay24.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
15:53:18	Party Cape	1241	16604	53
15:59:34	Wonder Bay	1268	16604	53
16:07:28	Gull Island	1294	16604	53
16:19:58	Western Inlet	1350	16604	53
16:40:06	Entrance to Big Bay	1467	16604	53
16:50:28	Eagle Cape	1521	16604	53

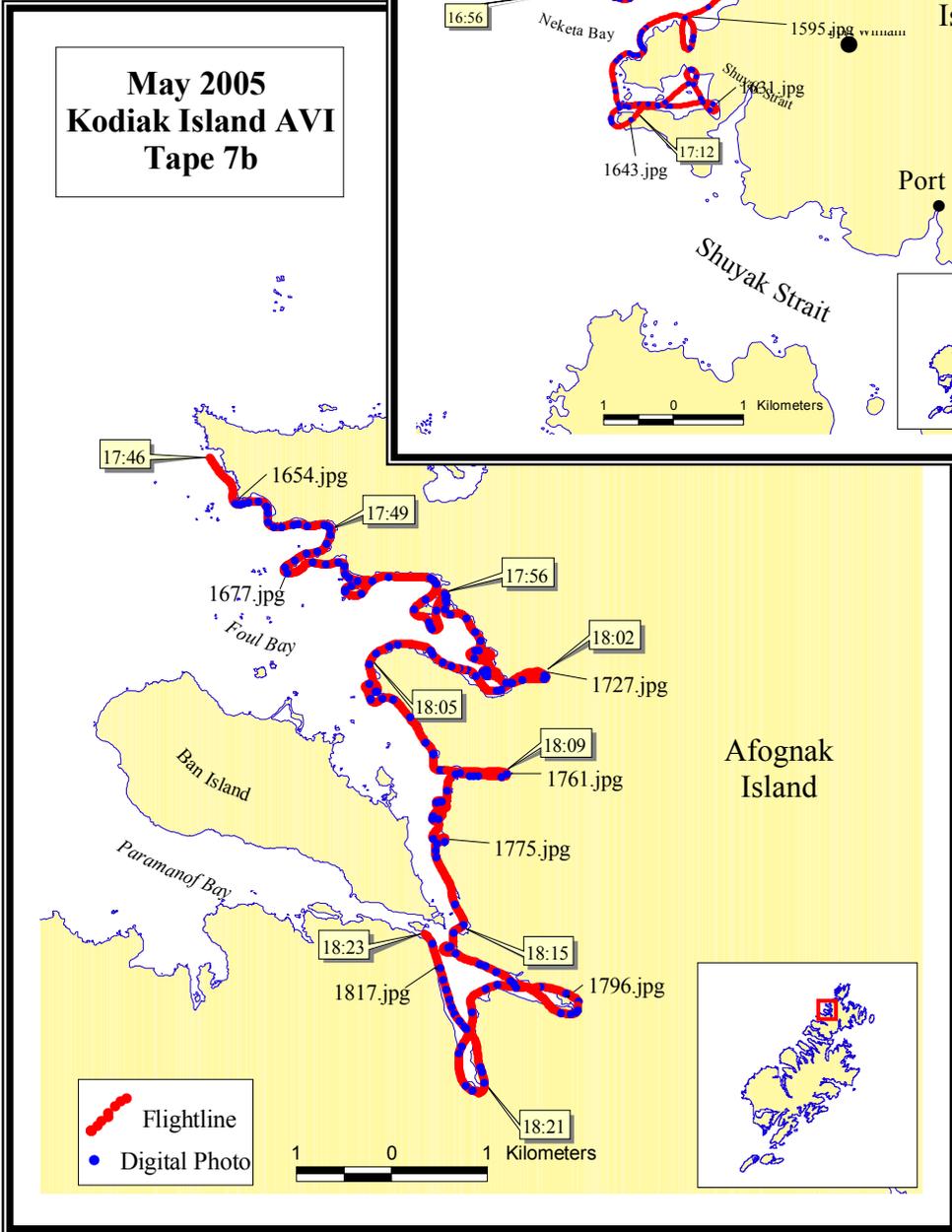
**May 2005
Kodiak Island AVI
Tape 7a**

Flightline
Digital Photo



**May 2005
Kodiak Island AVI
Tape 7b**

Flightline
Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 7

General Location: Shuyak Island; Eagle Cape, Afognak; Foul Bay

Date: May 24, 2005

Time Start: 16:51:23

Time End: 18:23:42

Tape Length: 58.29

Fuel Break: 17:12:08 to 17:46:00

Weather: Clear, calm, sunny

Electronic File Names: kdkmay24.trk, kdkmay24.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
16:52:36	Eagle Cape	1524	16604	53
17:06:12	Mouth of Neketa Bay (exiting)	1594	16604	53
17:12:00	Cape Newland	1643	16604	53
17:12:08	Start Fuel Break/transit to Afognak		16604	53
17:46:00	End Transit		16604	53
17:47:00	Mouth of Foul Bay	1654	16604	53
18:09:04	Long straight inlet in Foul Bay	1760	16604	53
18:18:22	North branch, head of Foul Bay	1795	16604	53
18:21:20	South branch, head of Foul Bay	1805	16604	53
18:23:32	Head of Paramanof Bay	1818	16604	53

* Note: Black and white on video recorder, from 17:46:00 (21:56 Elapsed time) to 17:48:23 (Elapsed 24:20).

**May 2005
Kodiak Island AVI
Tape 8**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 8

General Location: Ban Island, Paramanof Bay

Date: May 24, 2005

Time Start: 18:25:35

Time End: 19:25:12

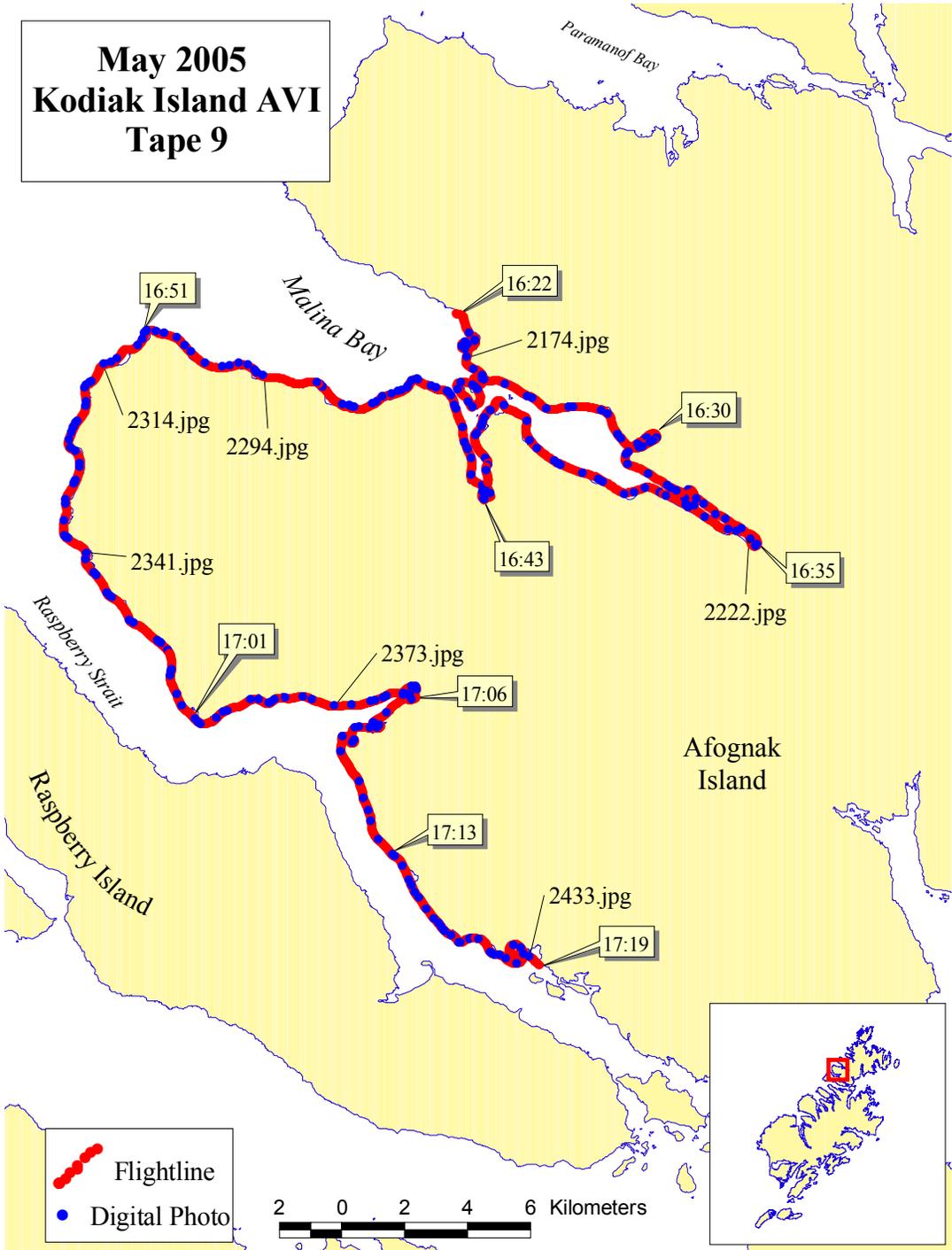
Tape Length: 59:37

Weather: Clear Sunny Calm

Electronic File Names: kdkmay24.trk, kdkmay24.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
18:27:34	South end of Ban Island	1827	16604	53
18:37:06	Lagoon, east side of Ban Island	1884	16604	53
18:44:48	Northwest tip of Ban Island	1929	16604	53
18:52:58	Head of Paramanof Bay	1978	16604	53
19:05:14	Head of deep estuary mid- Paramanof Bay	2036	16604	53
19:15:52	Cape Paramanof	2096	16604	53
19:20:30	Tannak Cape	2136	16604	53
19:25:06	Malina Bay	2165	16604	53

**May 2005
Kodiak Island AVI
Tape 9**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 9

General Location: MalinaBay, Raspberry Strait

Date: May 25, 2005

Time Start: 16:22:26

Time End: 17:19:07

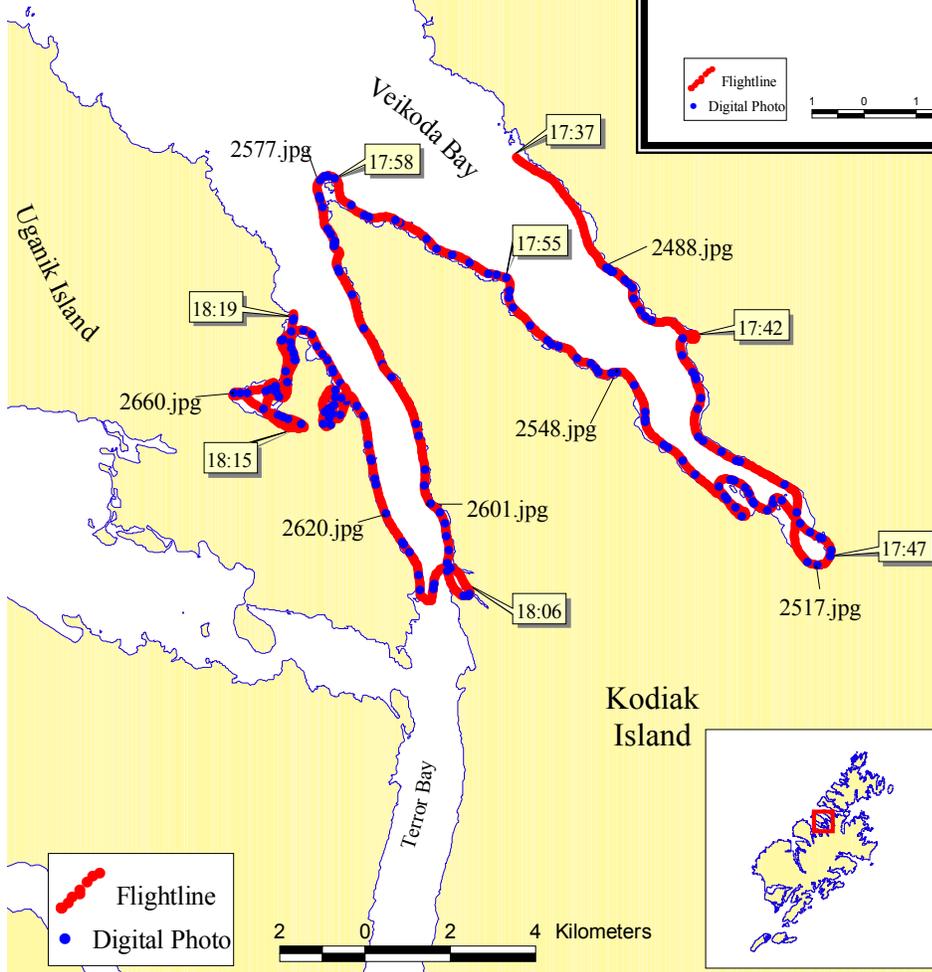
Tape Length: 56:41

Weather: Sunny, clear

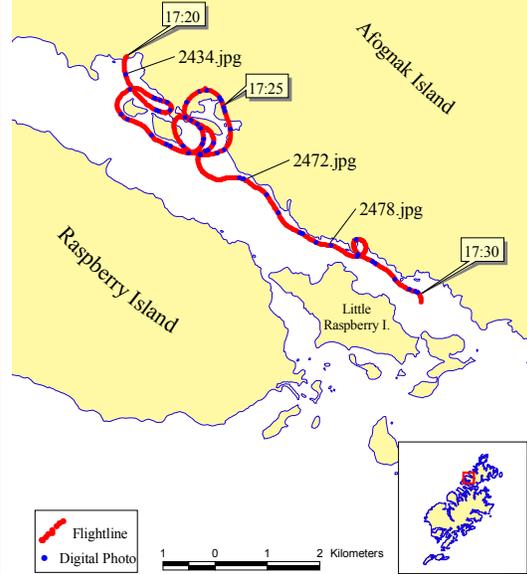
Electronic File Names: kdkmay25.trk, kdkmay25.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
16:23:00	Malina Bay, mid-way north side (start)	2166	15594	53, 54
16:35:28	Head of Malina Bay	2224	15594	53, 54
16:43:04	Head of Maka Bay	2259	15594	53, 54
16:52:54	Steep Cape (Shelikof Strait)	2314	15594	53, 54
17:04:30	Muskomee Bay, Raspberry Strait	2373	15594	53, 54
17:18:20	Yukuk Bay, Raspberry Strait	2432	15594	53, 54

**May 2005
Kodiak Island AVI
Tape 10b**



**May 2005
Kodiak Island AVI
Tape 10a**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 10

General Location: Raspberry Strait, Afognak Island, Veikoda Bay, Uganik Passage, Kodiak Island, Uganik I.

Date: May 25, 2005

Time Start: 17:19:53

Time End: 18:19:47

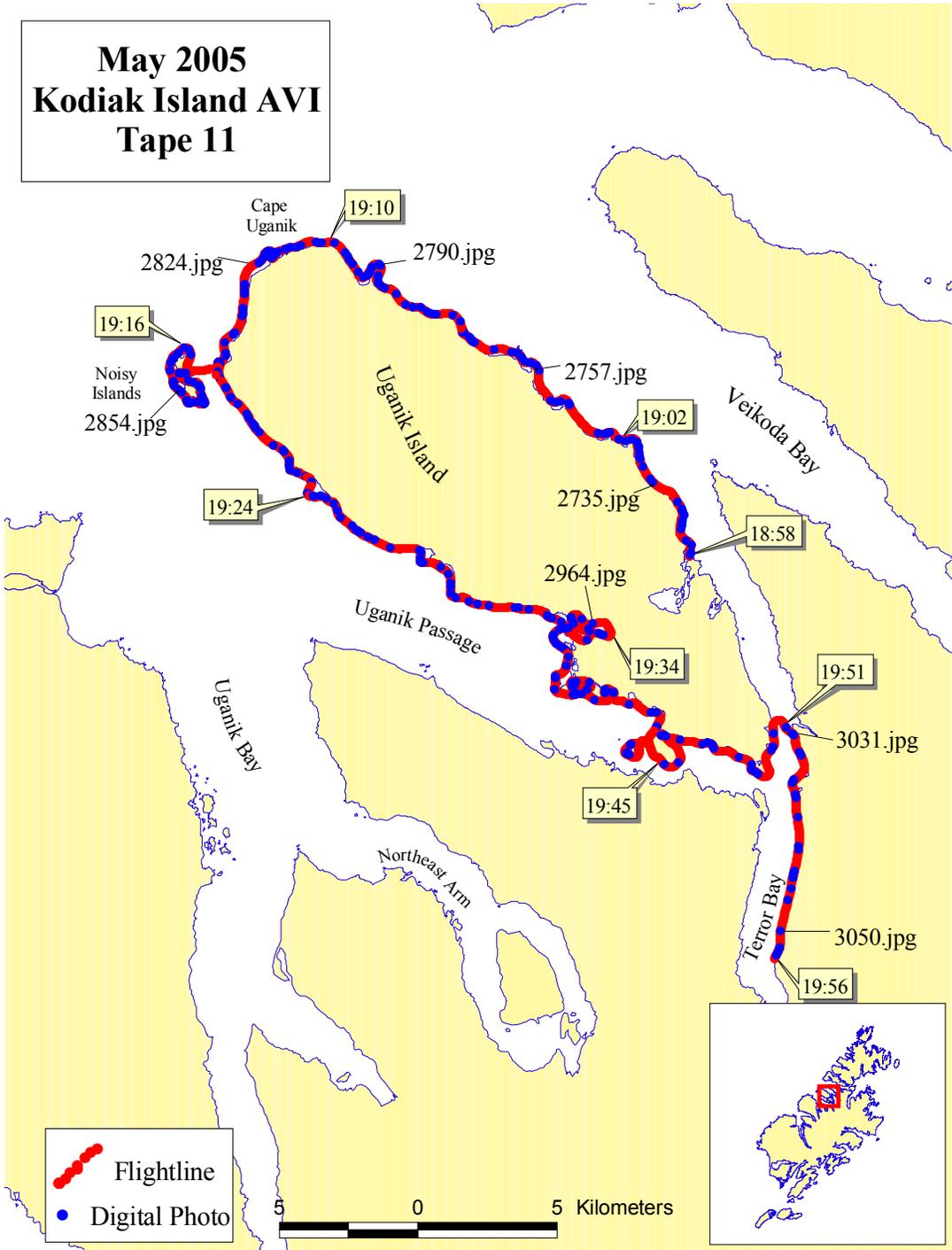
Tape Length: 53:25

Weather: Sunny, clear

Electronic File Names: kdkmay25.trk, kdkmay25.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
17:21:30	Yukuk Bay, Raspberry Strait	2442	15594	53, 54
17:30:38	The Narrows, Raspberry Strait	2487	15594	53,54
17:47:14	Head of Veikoda Bay	2518	15594	53, 54
17:58:20	Mouth of Veikoda Bay (Naugolka Pt.)	2574	15594	53, 54
18:05:14	Uganik Passage	2607	15597	53, 54
18:10:48	Small lagoon, NE Uganik	2632	15597	53, 54
18:19:42	NE Uganik I. (End)	2674	15597	53, 54

**May 2005
Kodiak Island AVI
Tape 11**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 11

General Location: Uganik Passage, Uganik I., Terror Bay

Date: May 25, 2005

Time Start: 18:58:43

Time End: 19:56:26

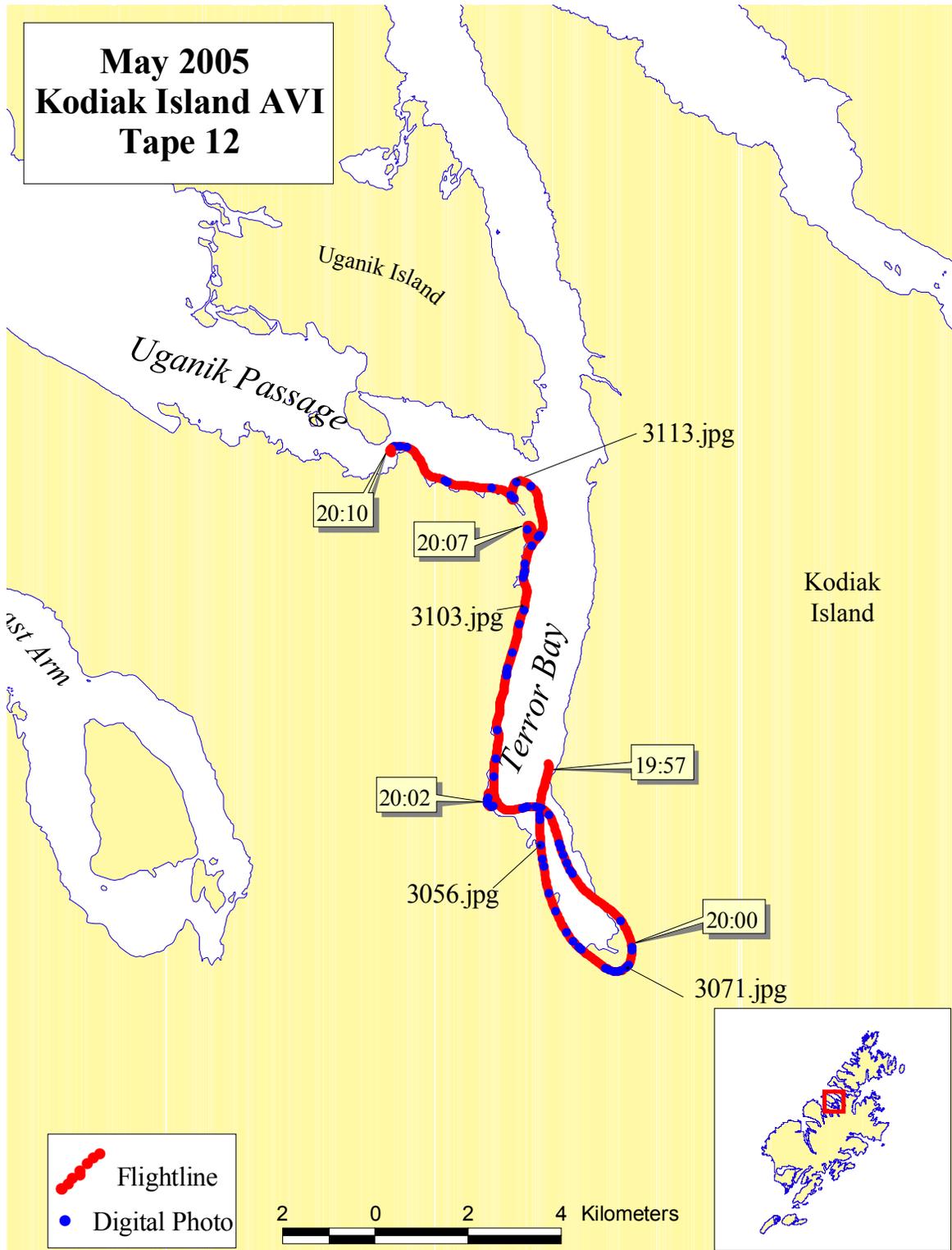
Tape Length: 57:41

Weather: Sunny, clear

Electronic File Names: kdkmay25.trk, kdkmay25.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
18:58:46	Uganik Passage, north side Uganik Island	2723	15597	44, 45
19:09:14	Fishtraps on north side of Uganik Island	2790	15597	44, 45
19:11:34	Cape Uganik	2811	15597	44, 45
19:16:14	Noisy Islands	2842	15597	44, 45
19:35:02	Lagoons, SW side of Uganik Island	2964	15597	44, 45
19:49:30	South end Uganik Island	3026	15597	44, 45
19:56:20	Terror Bay	3053	15597	44, 45

**May 2005
Kodiak Island AVI
Tape 12**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 12

General Location: Terror Bay, Uganik Passage

Date: May 25, 2005

Time Start: 19:57:22

Time End: 20:10:47

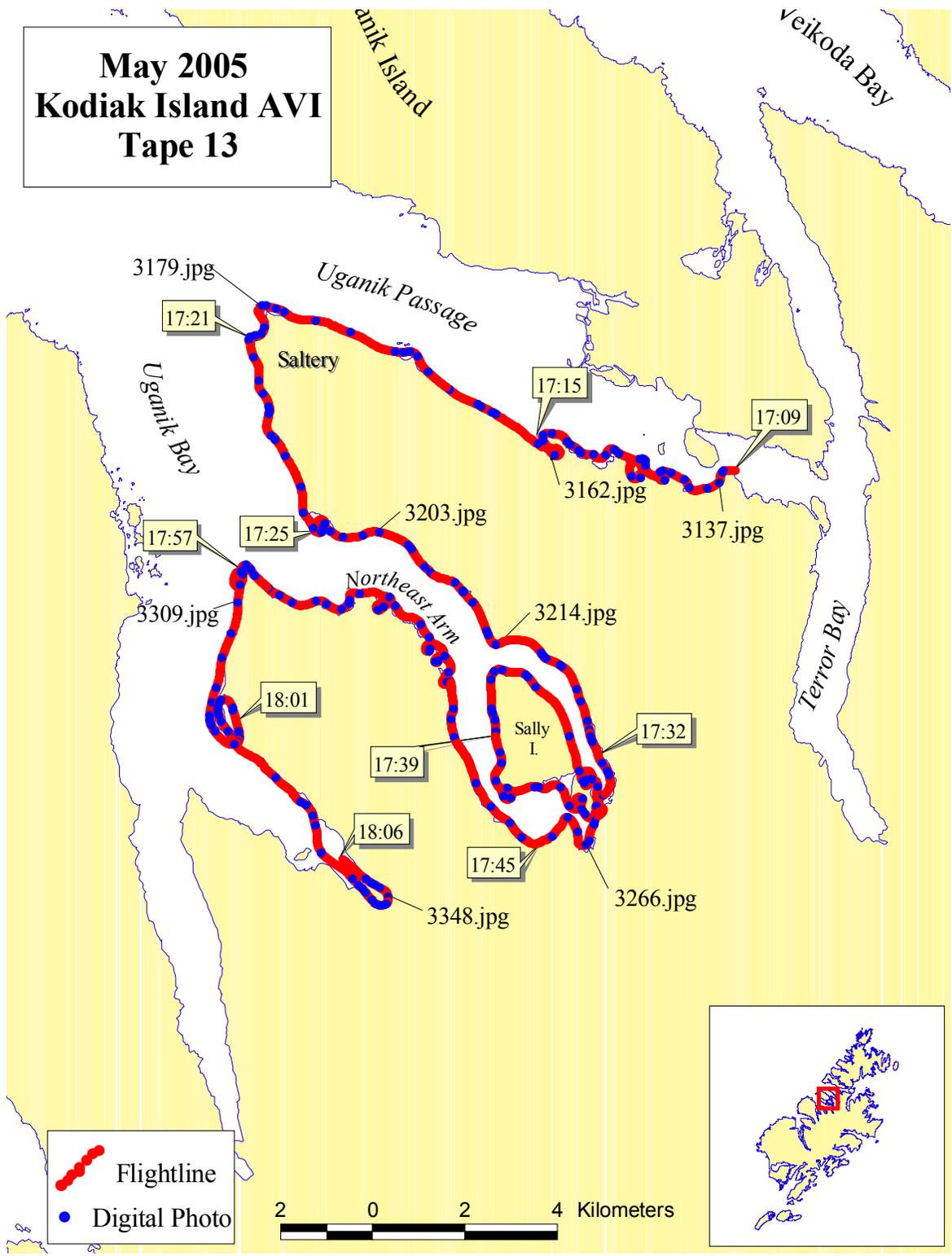
Tape Length: 13:35

Weather: Sunny, clear

Electronic File Names: kdkmay25.trk, kdkmay25.txt, KDK05_trackline_a.shp

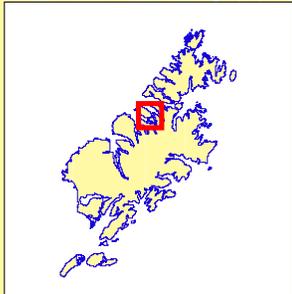
UTC_Time	Location	JPEG No.	Chart	Atlas Page
19:58:12	Terror Bay (start of flats north side)	3054	15597	44, 45
19:59:48	Head of Terror Bay	3065	15594	44, 45
20:01:46	Terror Bay (end of flats, south side)	3088	15594	44, 45
20:07:42	Head of Terror Bay	3111	15594	44, 45
20:10:38	Southern Uganik Passage (End)	3121	15597	44, 45

**May 2005
Kodiak Island AVI
Tape 13**



 Flightline
 Digital Photo

2 0 2 4 Kilometers



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 13

General Location: Uganik Passage, Uganik Bay; Northeast Arm, East Arm

Date: May 26, 2005

Time Start: 17:09:10

Time End: 18:06:35

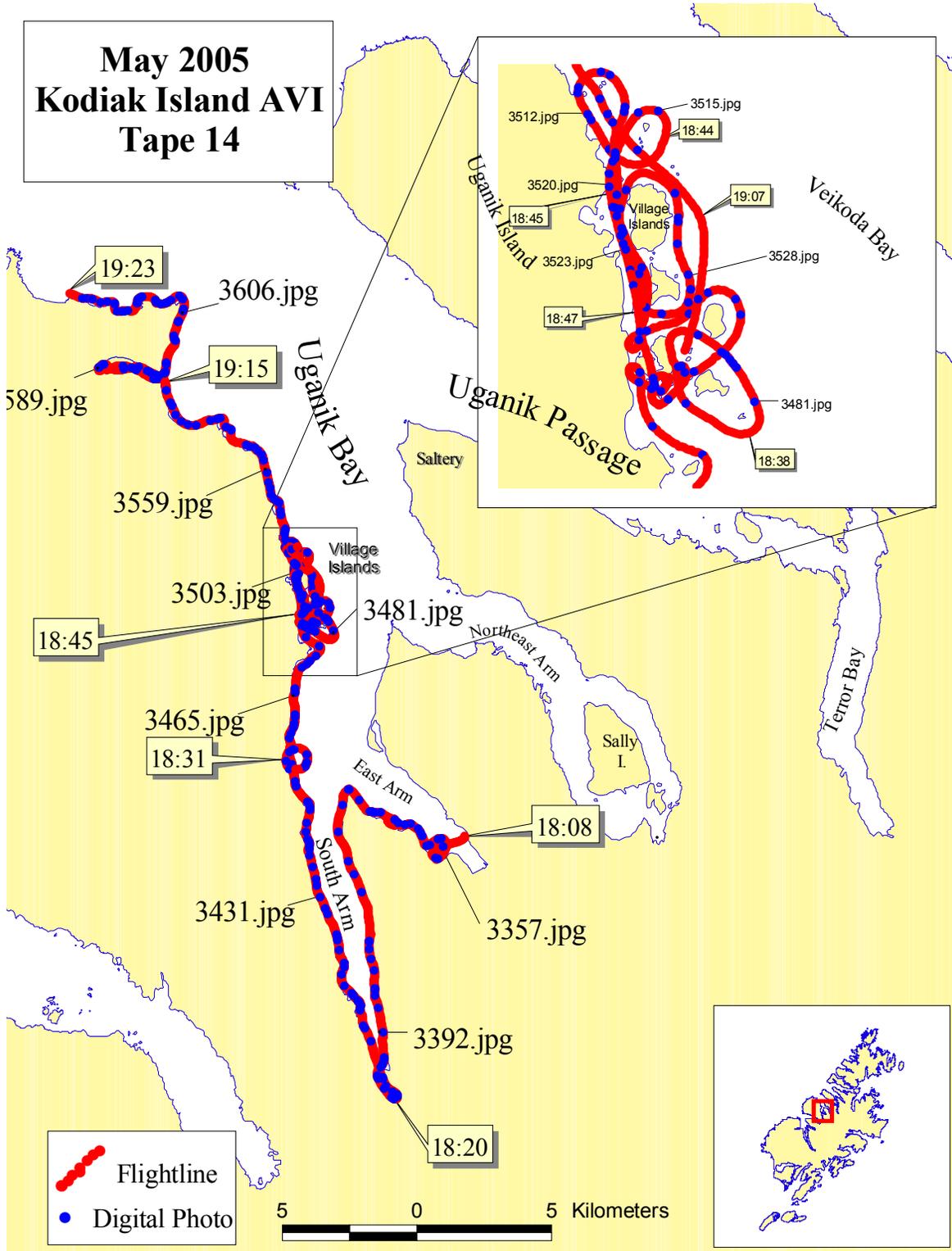
Tape Length: 57:35

Weather: High overcast, occasional light drizzle

Electronic File Names: kdkmay26.trk, kdkmay26.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
17:09:24	Uganik Passage (Start)	3136	15597	44, 45
17:20:38	East Point	3178	15597	44, 45
17:25:42	North entrance to Northeast Arm	3200	15597	44, 45
17:36:48	North side, Sally Island, Northeast Arm	3243	15597	44, 45
17:44:14	Head of Northeast Arm	3267	15597	44, 45
17:57:08	Rock Point	3302	15597	44, 45
18:01:38	Packer's Spit	3323	5597	44,45
18:06:16	Head of East Arm (End)	3352	15597	44, 45

**May 2005
Kodiak Island AVI
Tape 14**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 14

General Location: Uganik Bay; East Arm, South Arm

Date: May 26, 2005

Time Start: 18:08:00

Time End: 19:23:35

Fuel Break: 18:48:57 to 19:06:24

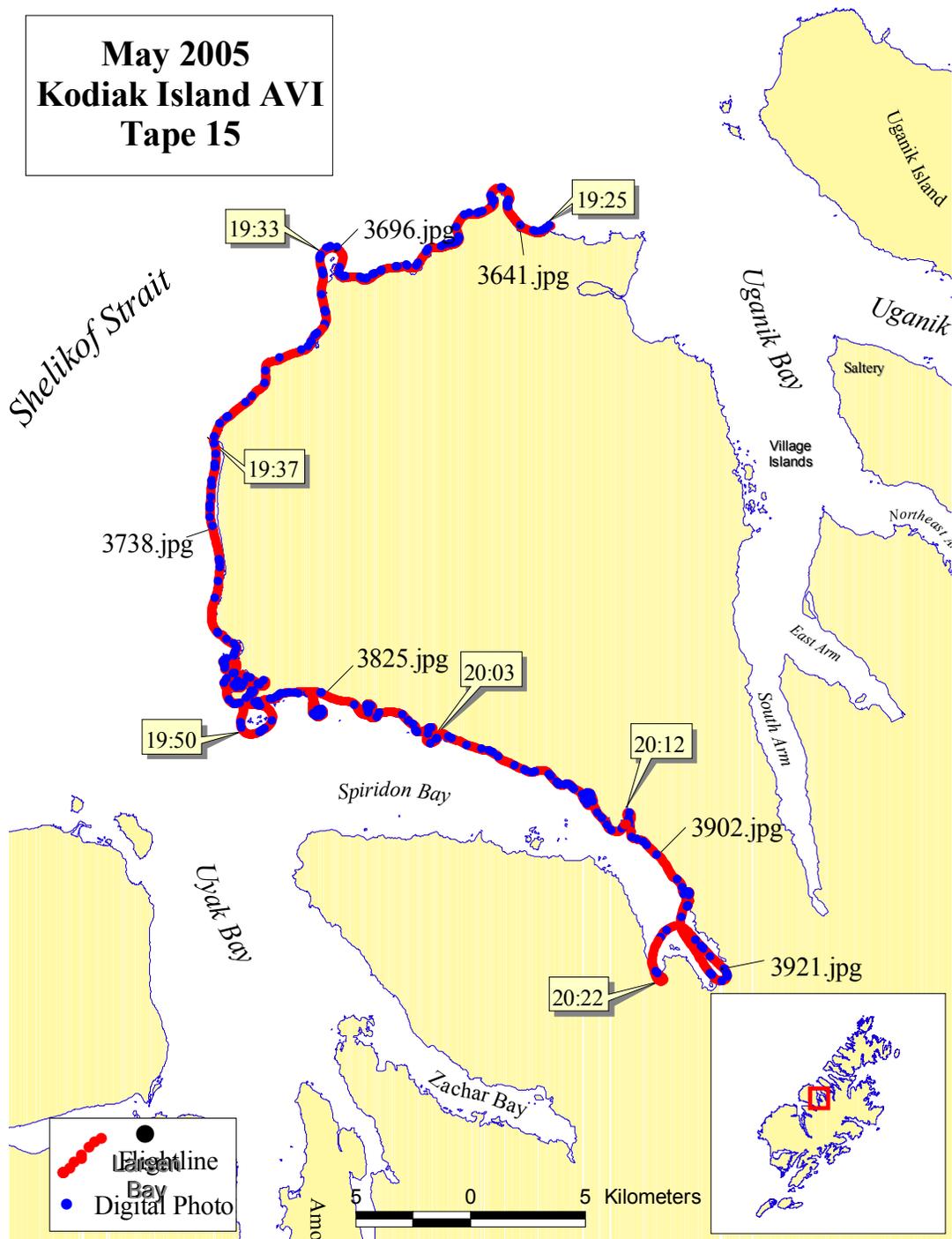
Tape Length: 58:22

Weather: High Overcast, occasional light drizzle

Electronic File Names: kdkmay26.trk, kdkmay26.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
18:08:26	Head of East Arm (Start)	3357	15597	44, 45
18:13:08	Mink Point	3377	15597	44, 45
18:19:56	Head of South Arm	3402	15597	44, 45
18:28:52	Mouth of Southeast Arm	3445	15597	44, 45
18:45:54	Village Islands (cluster)	3525	15597	44, 45
18:48:57	Start fuel break		15597	44,45
19:06:24	End fuel break		15597	44,45
19:11:40	West Point	3561	15597	44, 45
19:20:38	Broken Point	3608	15597	44, 45
19:24:58	Entrance to Shelikof Strait (End)	3635	15597	44, 45

**May 2005
Kodiak Island AVI
Tape 15**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 15

General Location: Shelikof Strait to Spiridon Bay

Date: May 26, 2005

Time Start: 19:24:55

Time End: 20:22:55

Tape Length: 58:00

Weather: Overcast, low drizzle

Electronic File Names: kdkmay26.trk, kdkmay26.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
19:26:16	Miners Point	3642	15597	44, 45
19:32:22	Cape Ugat	3695	15597	44, 45
19:37:48	Cape Kuliuk	3746	15597	44, 45
19:48:32	Chief Point	3773	15597	44, 45
20:03:58	Hook Point	3849	15597	44, 45
20:12:38	Telrod Cove	3895	15597	44, 45
20:22:38	Weasel Cove	3929	15597	44, 45

***Note:** ShoreZone Ground team is visible at 19:56:41 (Elapsed time: 33:10)

**May 2005
Kodiak Island AVI
Tape 16**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 16

General Location: Spiridon Bay, Uyak Bay, Zachar Bay

Date: May 26, 2005

Time Start: 20:24:16

Time End: 20:53:27

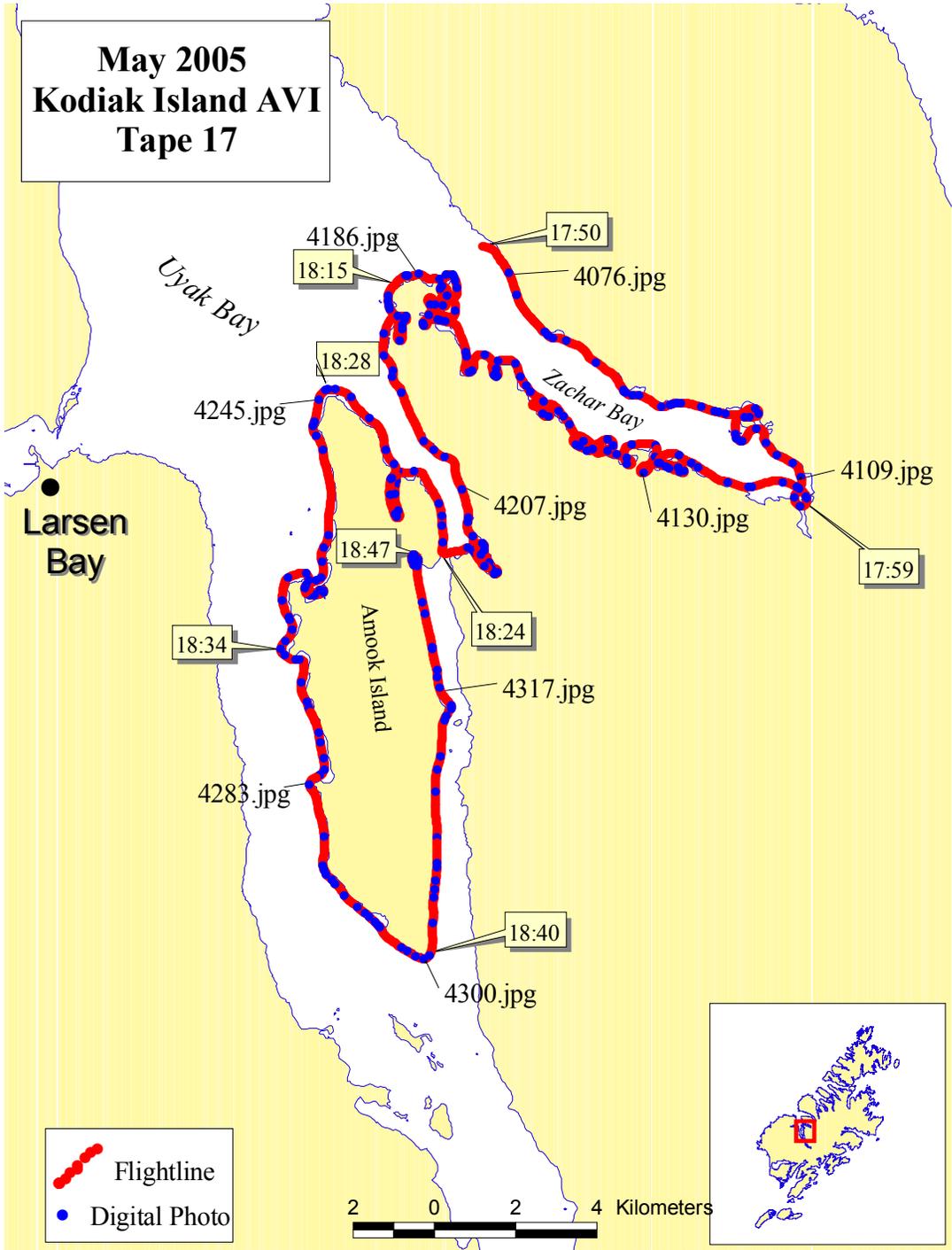
Tape Length: 29:11

Weather: Low overcast, drizzle

Electronic File Names: kdkmay26.trk, kdkmay26.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
20:25:38	Weasel Cove	3932	15597	44, 45
20:34:40	Ditto Islets	3959	15597	44, 45
20:43:46	Thistle Rock	3995	15597	44, 45
20:47:14	Entrance to Uyak Bay	4010	15597	44,45
20:53:24	Zachar Bay	4033	15597	44, 45

**May 2005
Kodiak Island AVI
Tape 17**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 17

General Location: Zachar Bay, Uyak Bay, Amook Island

Date: May 27, 2005

Time Start: 17:50:32

Time End: 18:47:40

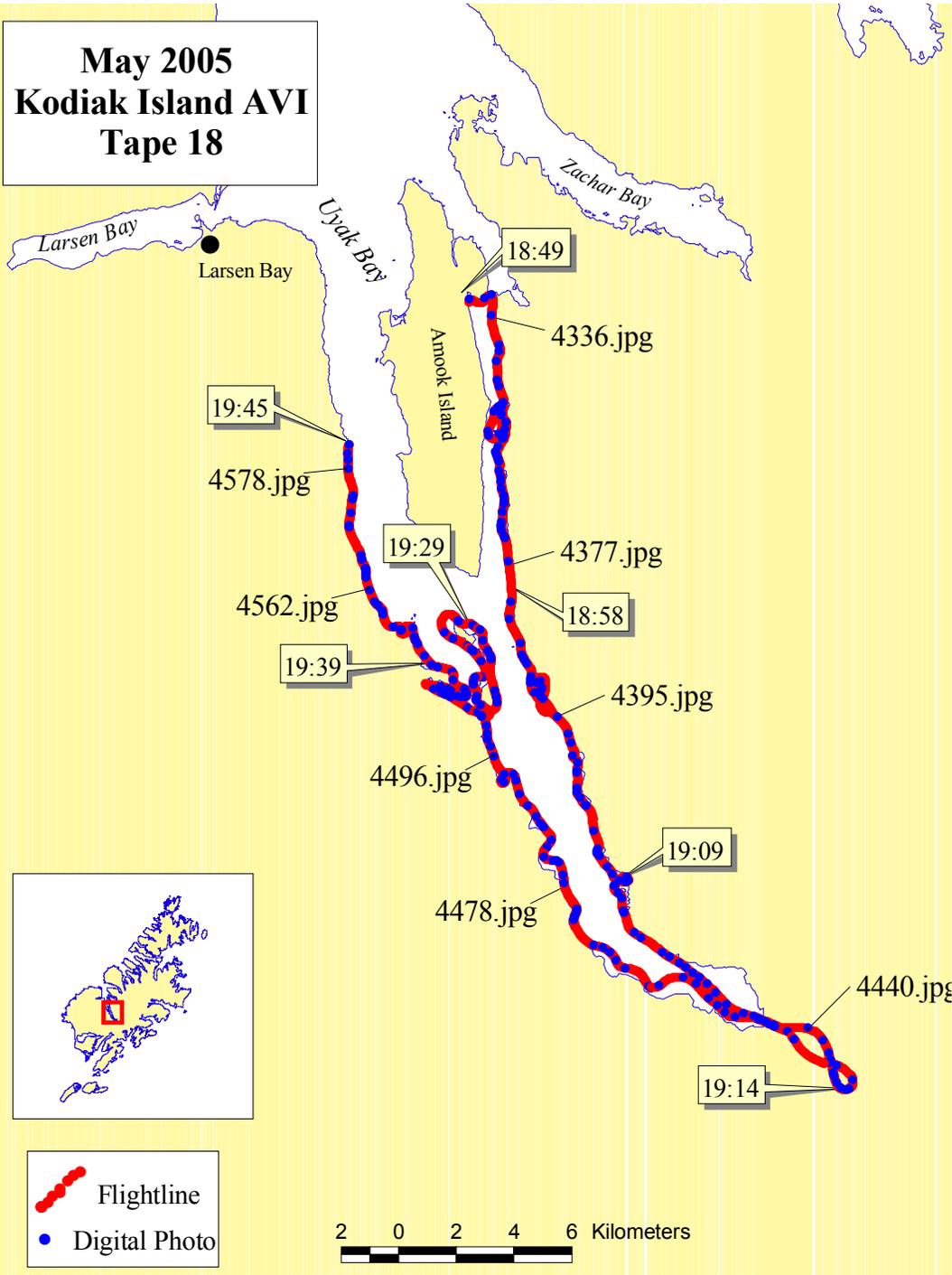
Tape Length: 57:08

Weather: Variable very windy to light winds, overcast with showers

Electronic File Names: kdkmay27.trk, kdkmay27.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
17:51:04	Mid-way, north side Zachar Bay	4076	15597	44, 45
17:58:48	Head of Zachar Bay	4110	15597	44, 45
18:15:32	Carlsen Point	4188	15594	44, 45
18:24:28	Start of Amook Island (E side)	4223	15594	44, 45
18:28:56	North tip of Amook Island	4243	15597	44, 45
18:34:48	West side Amook Island	4271	15597	44, 45
18:40:46	South end Amook Island	4301	15597	44, 45
18:47:40	East Side Amook Island	4331	1597	44,45

**May 2005
Kodiak Island AVI
Tape 18**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 18

General Location: Uyak Bay

Date: May 27, 2005

Time Start: 18:48:51

Time End: 19:45:42

Tape Length: 56:49

Weather: Variable heavy to light winds, overcast, showers

Electronic File Names: kdkmay27.trk, kdkmay27.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
18:48:58	East Side Amook Island (Start)	4333	15597	44, 45
18:58:26	East Side Uyak Bay, opposite Amook	4377	15597	44, 45
19:14:42	Head of Uyak Bay	4440	15597	44, 45
19:29:30	Alf Island	4504	15597	44, 45
19:45:22	Uyak Bay west side opposite Amook	4579	15597	44, 45

**May 2005
Kodiak Island AVI
Tape 19**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 19

General Location: Uyak Bay, Larsen Bay, Seven mile Beach, Shelikof Strait

Date: May 27, 2005

Time Start: 19:46:36

Time End: 21:11:24

Fuel Break: 20:10:53 to 20:37:01 (Elapsed Time 25:25 TO 25:31)

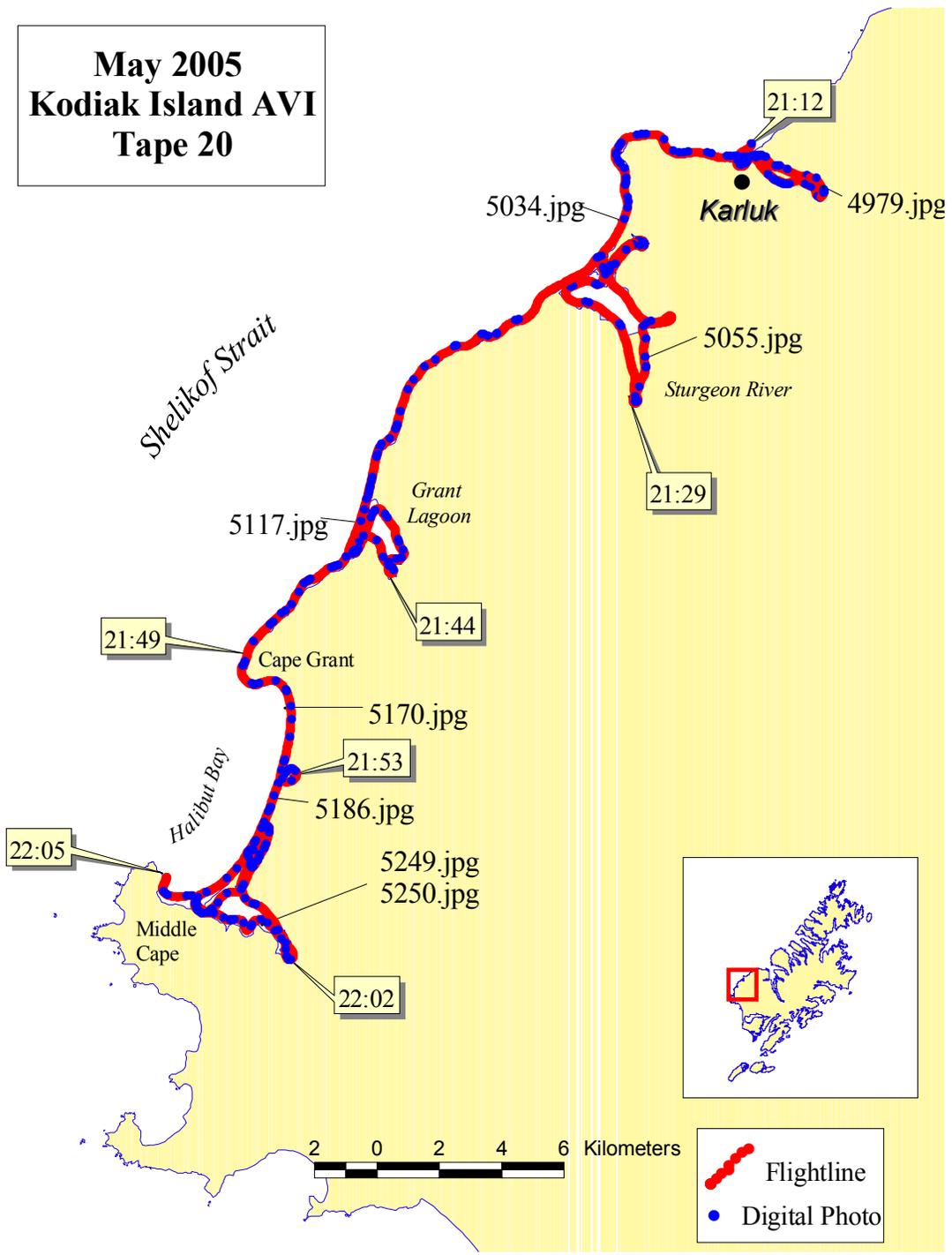
Tape Length: 59:53

Weather: Variable heavy to light winds, high overcast 18:47t, occasional light showers

Electronic File Names: kdkmay27.trk, kdkmay27.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
19:47:00	West side Uyak, opposite Amook I.	4583	15597	44, 45
19:53:50	Mouth of Larsen Bay (South side)	4609	15597	44, 45
20:00:26	Head of Larsen Bay	4666	15597	44, 45
20:09:10	Lagoon at mouth of Larsen Bay (north side)	4711	15597	44, 45
20:10:53	Start fuel break		15597	44, 45
20:37:01	End fuel break		1597	44, 45
20:44:18	Harvester Island	4754	15598	44, 45
20:55:56	Seven Mile Beach	4847	15598	44, 45
21:05:18	Cape Uyak	4906	15598	44, 45
21:10:56	Karluk	4947	15598	44, 45

**May 2005
Kodiak Island AVI
Tape 20**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 20

General Location: Shelikof Strait, Karluk River, Sturgeon River, Halibut Bay

Date: May 27, 2005

Time Start: 21:12:26

Time End: 22:05:50

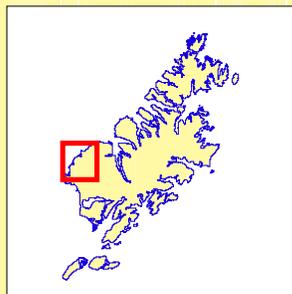
Tape Length: 53:25

Weather: Variable heavy to light winds, overcast, occasional light showers

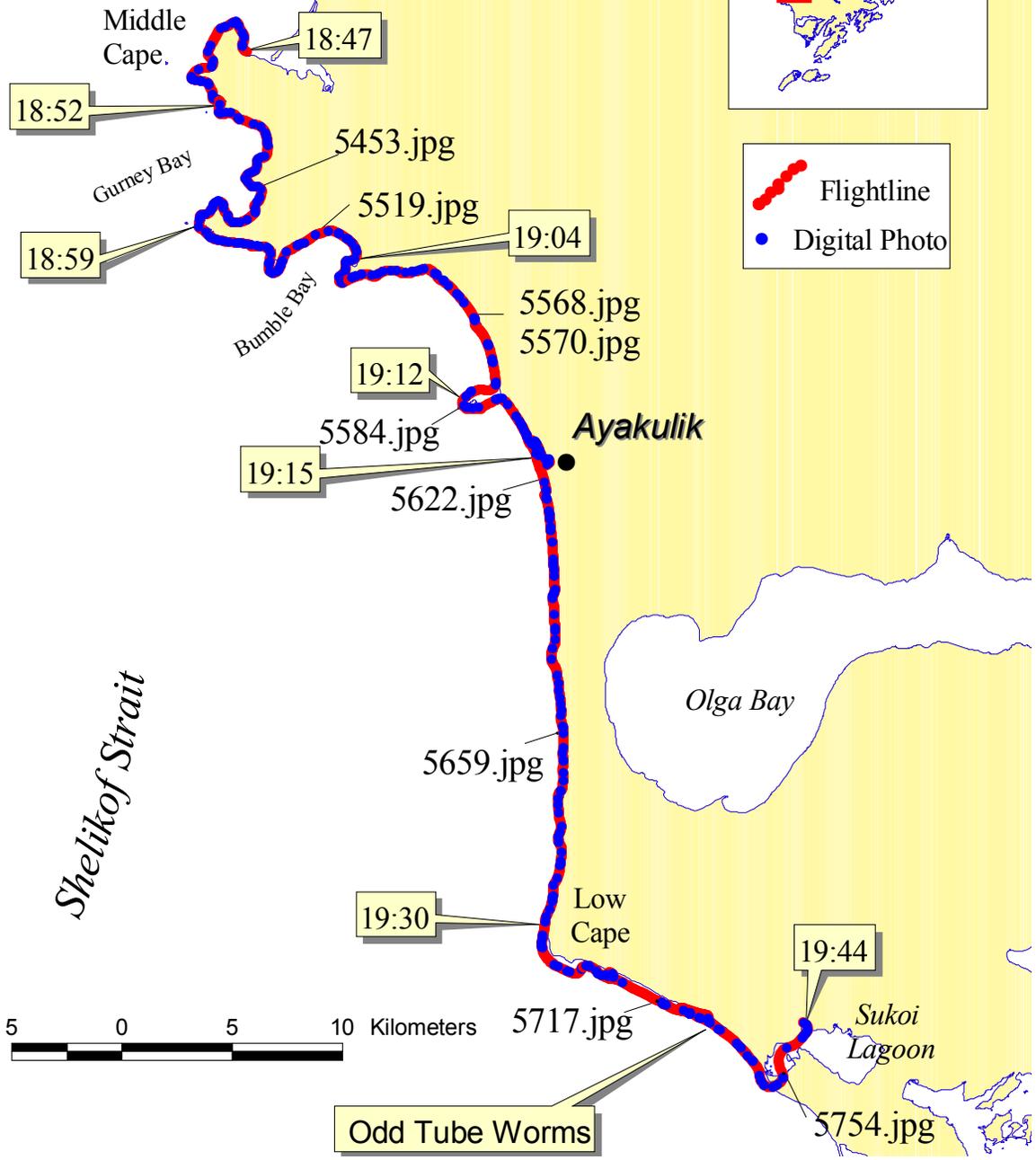
Electronic File Names: kdkmay27.trk, kdkmay27.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
21:12:28	Karluk Anchorage	4955	16598	44, 45
21:20:20	Cape Karluk	5020	16598	44, 45
21:29:24	Sturgeon River estuary	5061	16598	44, 45
21:42:30	Grant Lagoon	5122	16598	44, 45
21:49:48	Cape Grant	5159	16598	44, 45
21:56:38	Halibut Bay estuary	5208	16598	44, 45
22:05:28	Middle Cape	5268	16598	44, 45

May 2005 Kodiak Island AVI Tape 21



 Flightline
 Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 21

General Location: Gurney Bay, Bumble Bay, Ayakulik, Low Cape, Sukhoi Lagoon

Date: May 28, 2005

Time Start: 18:47:28

Time End: 19:44:22

Tape Length: 56:54

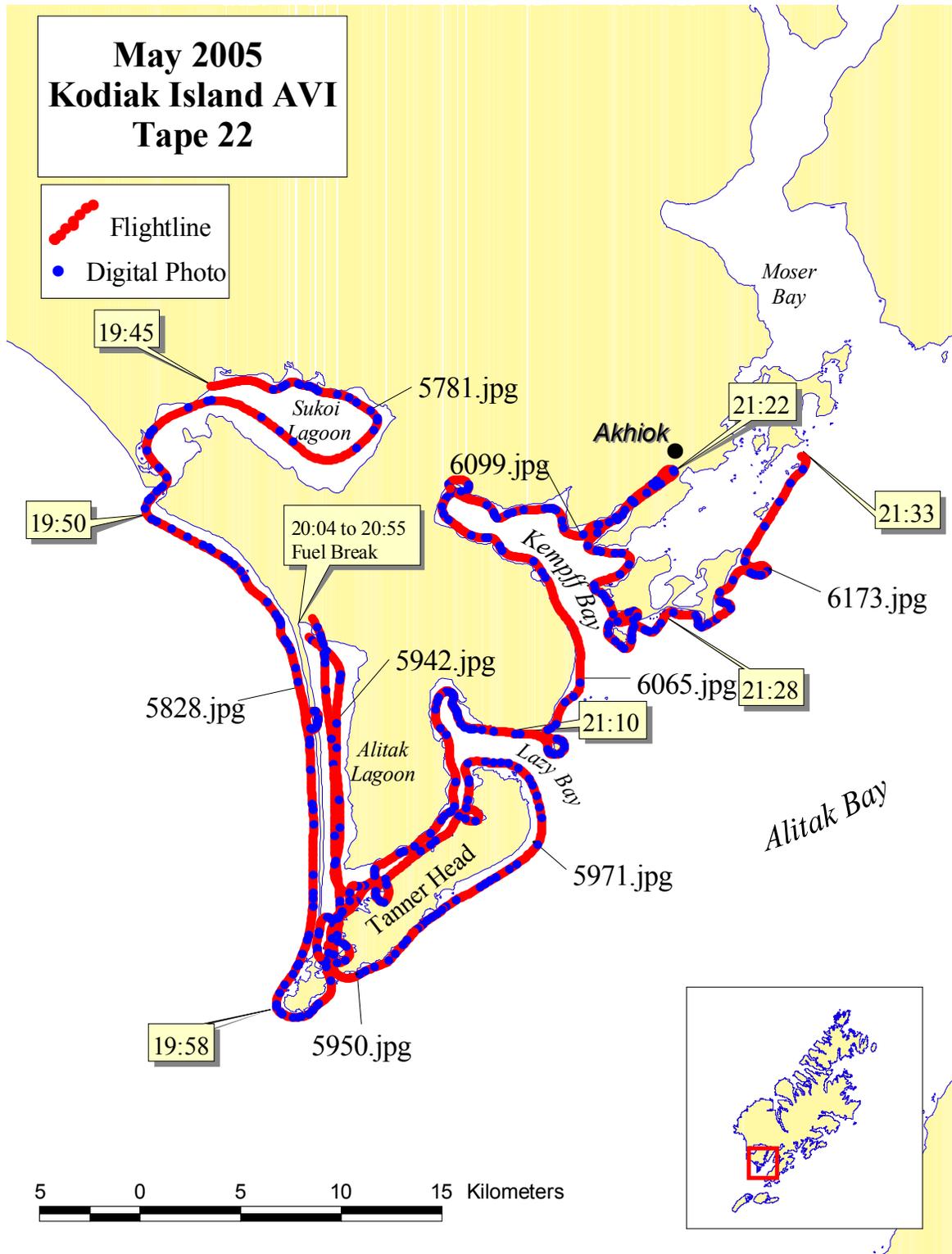
Weather: Windy, occasional rain showers, partly cloudy skies

Electronic File Names: kdkmay28a.trk, kdkmay28a.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
18:47:48	Halibut Bay	5401	16601	43
18:55:48	Gurney Bay	5456	16601	43
19:03:52	Bumble Bay	5523	16601	43
19:12:26	Ayakulik Island	5583	16601	43
19:15:58	Ayakulik River	5613	16601	43
19:30:36	Low Cape	5691	16601	43
19:44:16	Sukhoi Bay	5762	16601	43

May 2005 Kodiak Island AVI Tape 22

-  Flightline
-  Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 22

General Location: Sukhoi Lagoon, Alitak Lagoon, Lazy Bay, Alitak Bay, Akhiok

Date: May 28, 2005

Time Start: 19:45:05

Time End: 21:33:45

Fuel Break: 20:04:41 to 20:54:45 (elapsed time 19:37 to 19:40)

Tape Length: 57:37

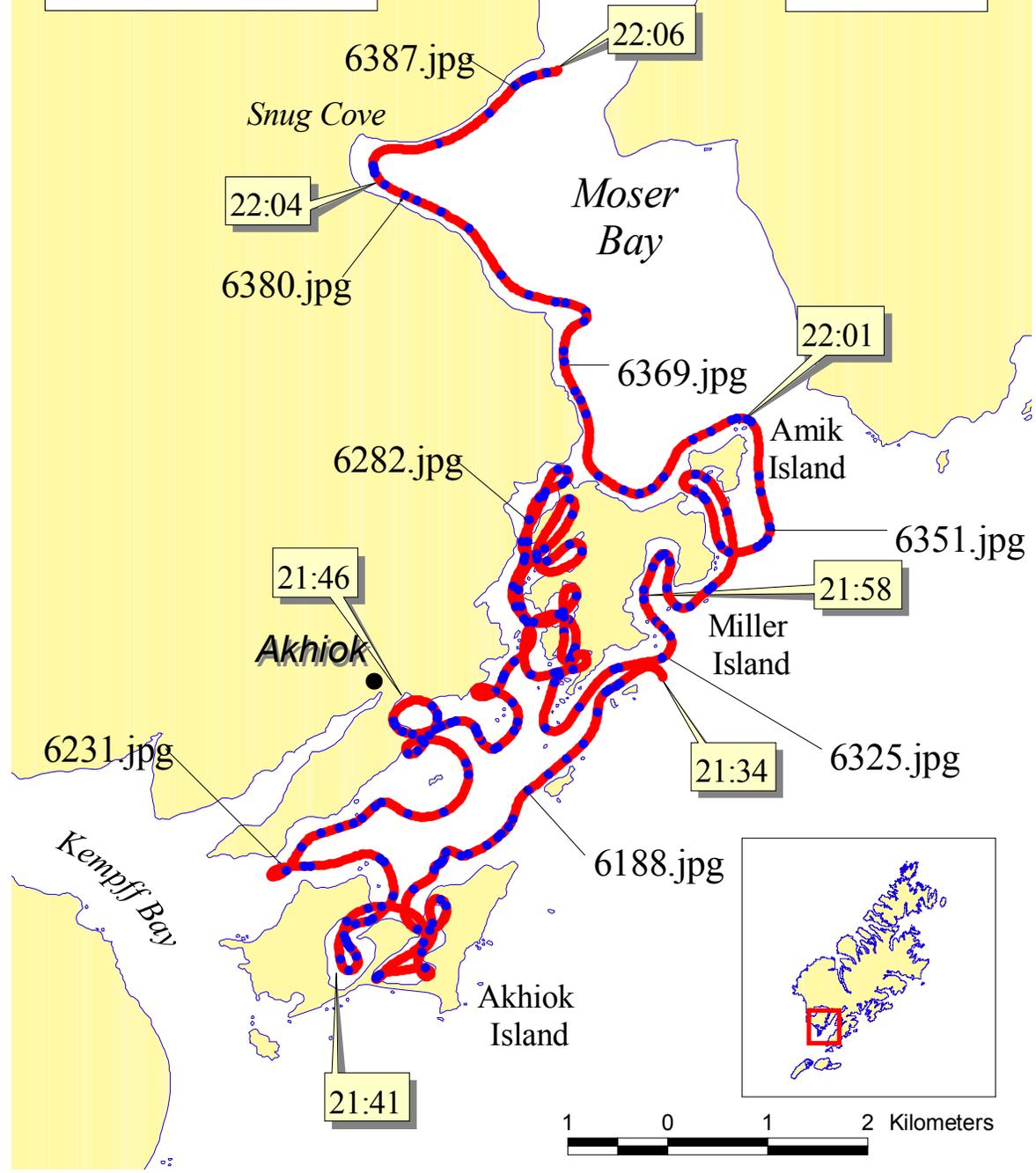
Weather: Windy, occasional rain showers, partly cloudy skies

Electronic File Names: kdkmay28a.trk, kdkmay28a.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
19:45:58	Sukhoi Lagoon (start)	5768	16601	64
19:50:32	Sukhoi Bay mouth (exiting)	5798	16601	64
19:58:38	Cape Alitak	5856	16601	64
20:04:35	Alitak Lagoon (fuel break start)	5902	16601	64
20:55:06	Alitak Lagoon (fuel break end)	5938	16601	64
20:59:06	Tanner Head	5950	16601	64
20:03:00	Rodman Reach (Alitak Lagoon)	5984	16601	64
21:10:56	Lazy Bay Cannery	6030	16601	64
21:22:36	Akhiok	6111	16601	64
21:33:30	Akhoik Bay reefs (end)	6179	16601	64

**May 2005
Kodiak Island AVI
Tape 23**

Flightline
Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 23

General Location: Alitak Bay, Miller Island, Moser Bay

Date: May 28, 2005

Time Start: 21:34:22

Time End: 22:07:02

Tape Length: 32:40

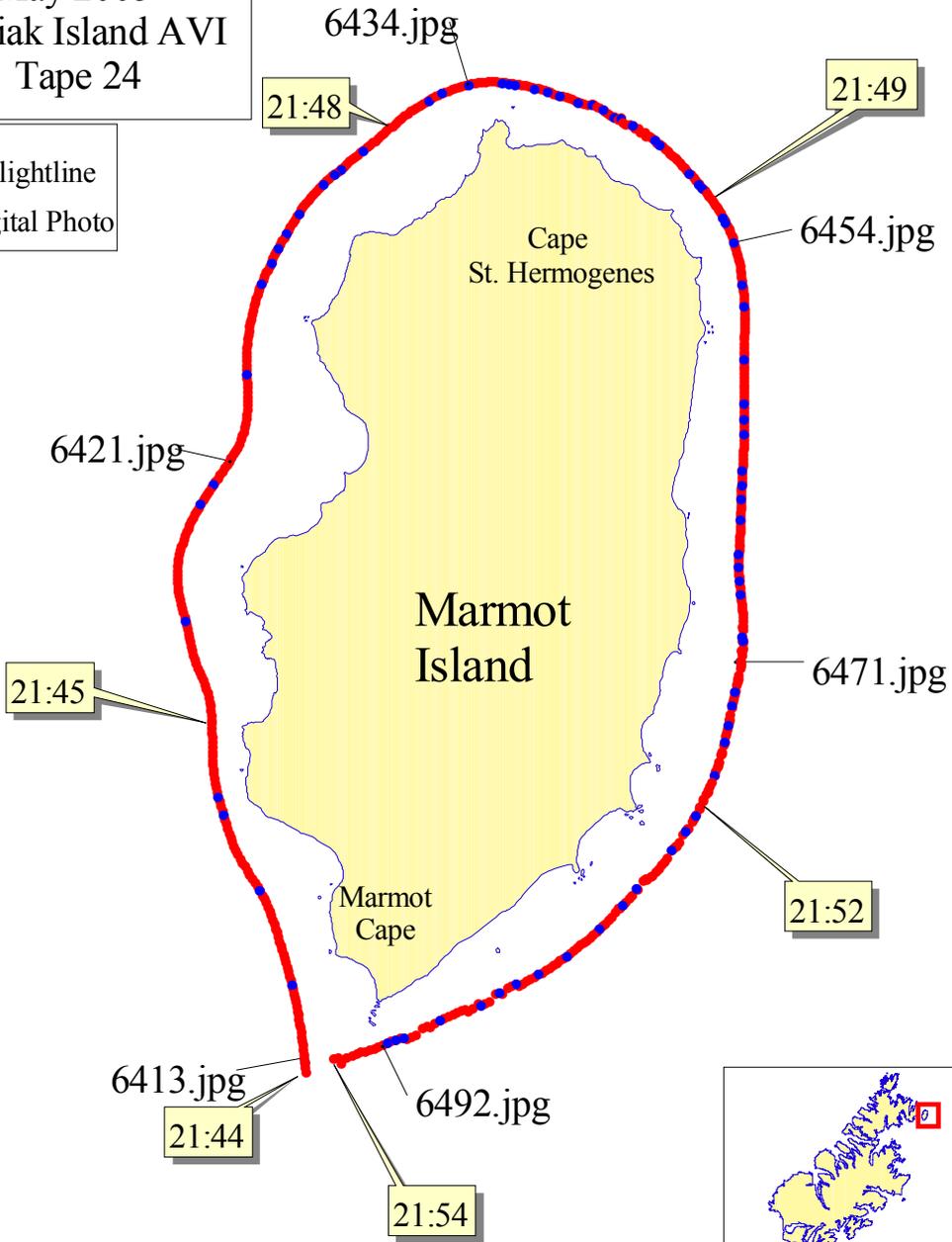
Weather: Moderate winds, , partly cloudy skies

Electronic File Names: kdkmay28a.trk, kdkmay28a.txt, KDK05_trackline_a.shp

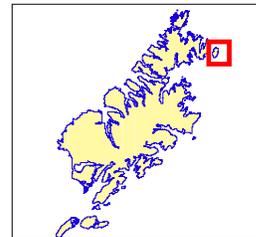
UTC_Time	Location	JPEG No.	Chart	Atlas Page
21:34:50	Akhiok Bay (start)	6181	16590	64
21:41:12	Akhiok Island	6221	16590	64
21:52:14	Miller Island (west side, protected)	6297	16590	64
21:58:44	Miller Island (east side, exposed)	6335	16590	64
22:01:06	Amik Island	6354	16590	64
22:04:56	Snug Cove	6378	16590	64
22:06:56	Trap Point	6391	16590	64

May 2005
Kodiak Island AVI
Tape 24

 Flightline
 Digital Photo



1 0 1 Kilometers



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 24

General Location: Marmot Island

Date: May 29, 2005

Time Start: 21:44:00

Time End: 21:54:30

Tape Length: 10:30

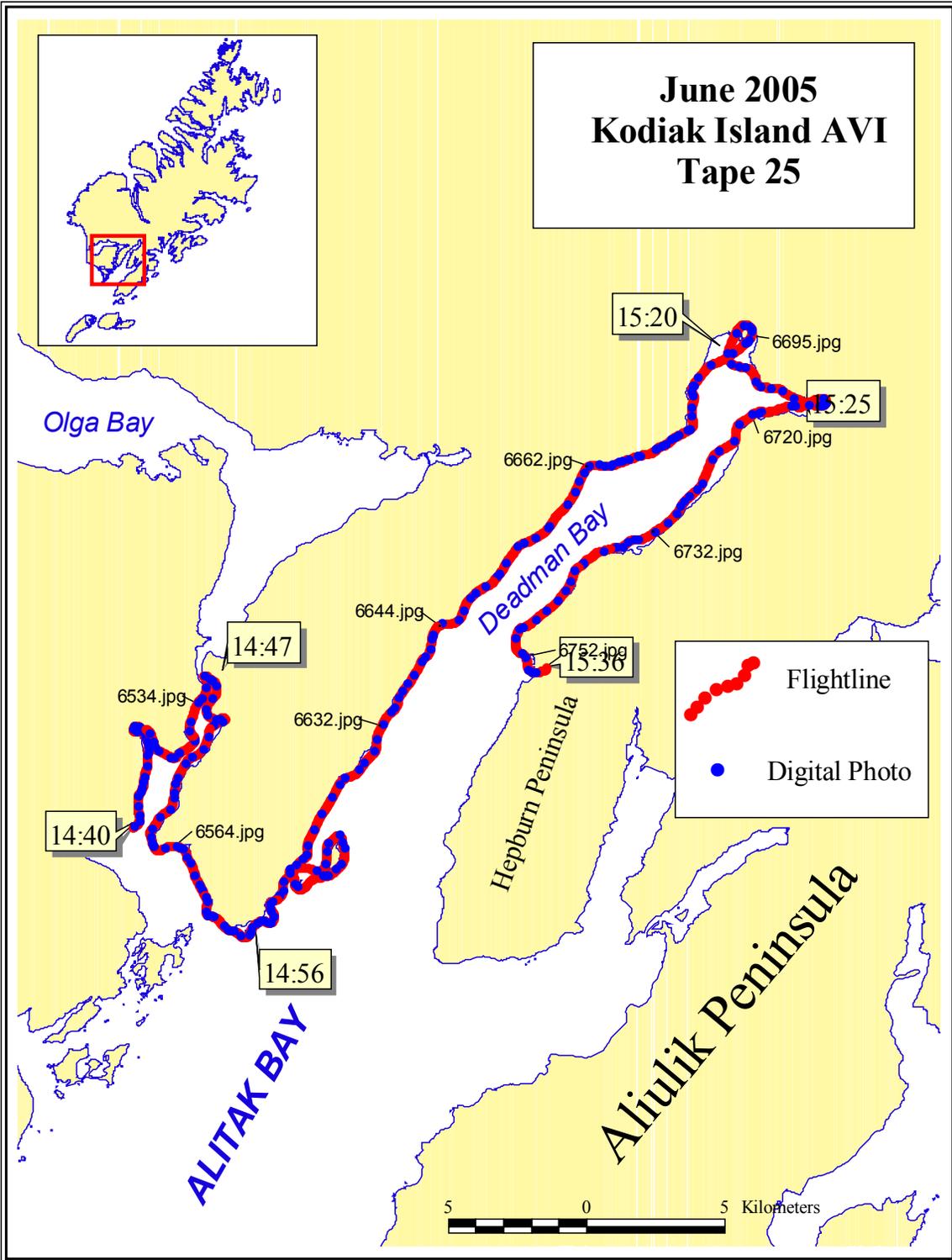
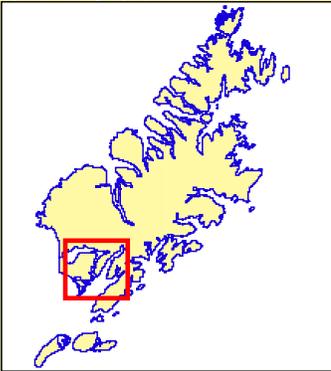
Weather: ROUGH!

Electronic File Names: may29.txt, xxxx.trk, xxxx.txt, KDK05_trackline_a.shp

UTC_Time	Location	JPEG No.	Chart	Atlas Page
214402	Start Marmot Cape	6413	16604	44, 45
214628	West Marmot Island	6421	16604	44, 45
214828	North Marmot Island	6434	16604	44, 45
215006	Cape St. Hrmogenes	6454	16604	44, 45
215204	East Marmot Island	6471	16604	44, 45
215418	End Marmot Cape	6492	16604	44, 45

Note: most of the imagery from the east coast is unusable due to turbulence.

**June 2005
Kodiak Island AVI
Tape 25**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 25
General Location: Moser Bay, Deadman Bay, Portage Bay

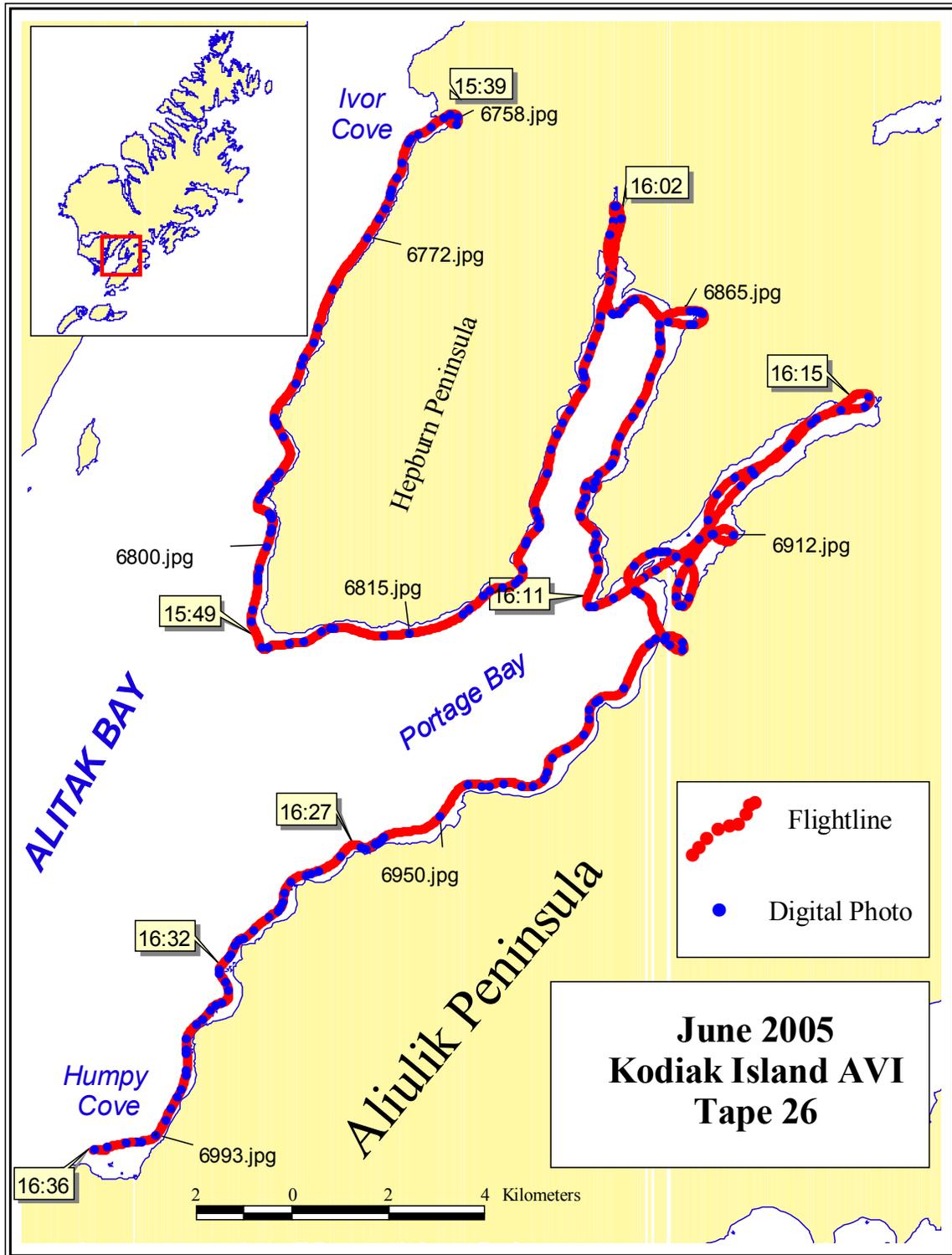
Date: 21 June 2005
Time Start: 14:40:30
Time End: 15:37:46
Tape Length: 1:00:04

Fuel Break: none

Weather: Low ceiling, calm

Electronic File Names: Kdkjun21.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
14:40:30	Start tape at Trap Point	6501	16590	44
14:47:01	Olga Narrows	6537	16590	44
14:56:15	High Rock	6583	16590	44
15:20:39	Head of Deadman Bay	6689	16590	44
15:25:48	Alpine Cove	6715	16590	44
15:28:00	Ptarmigan Point	6721	16590	44
15:36:00	Ivor Point	6749	16590	44
15:37:46	End tape at Ivor Cove	6757	16590	44



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 26
General Location: Deadman Bay, Portage Bay, Alitak Bay

Date: 21 June 05
Time Start: 15:38:47
Time End: 16:35:41
Tape Length: 58:58

Fuel Break: none

Weather: low overcast, calm

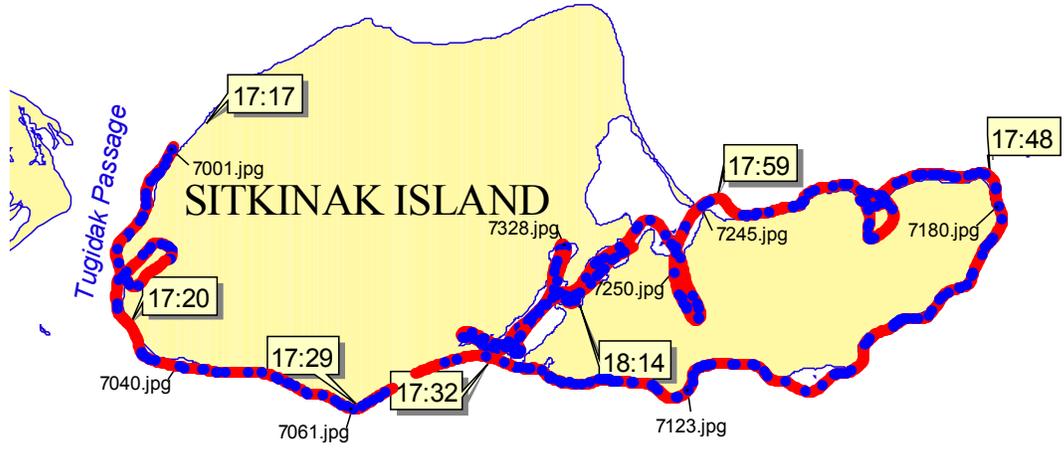
Electronic File Names: Kdkjun21.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
15:38:47	Start tape at Ivor Cove	6757	16590	44
15:49:35	Cape Hepburn	6806	16590	64
16:01:53	Head of Sulua Bay	6847	16590	44
16:11:40	Bert Point	6892	16590	65
16:15:20	Unnamed lagoon	6904	16590	65
16:26:56	Shag Bluff	6948	16590	64
16:32:16	Seaborg Cove	6977	16590	64
16:35:41	End tape at Humpy Cove	6999	16590	64

**June 2005
Kodiak Island AVI
Tape 27**

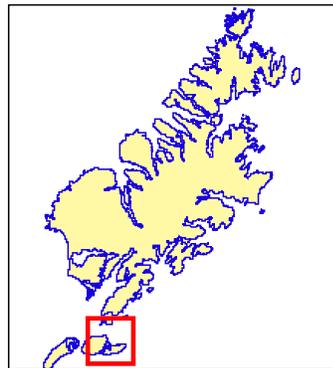


Sitkinak Strait



Legend:

-  Flightline
-  Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 27
General Location: Sitkinak Island

Date: 21 June 05
Time Start: 17:17:45
Time End: 18:14:38
Tape Length: 56:53

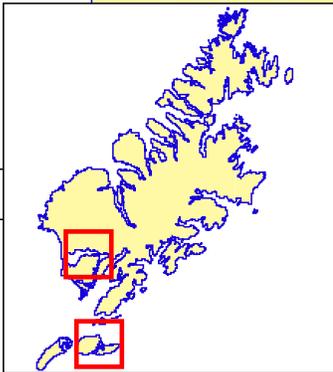
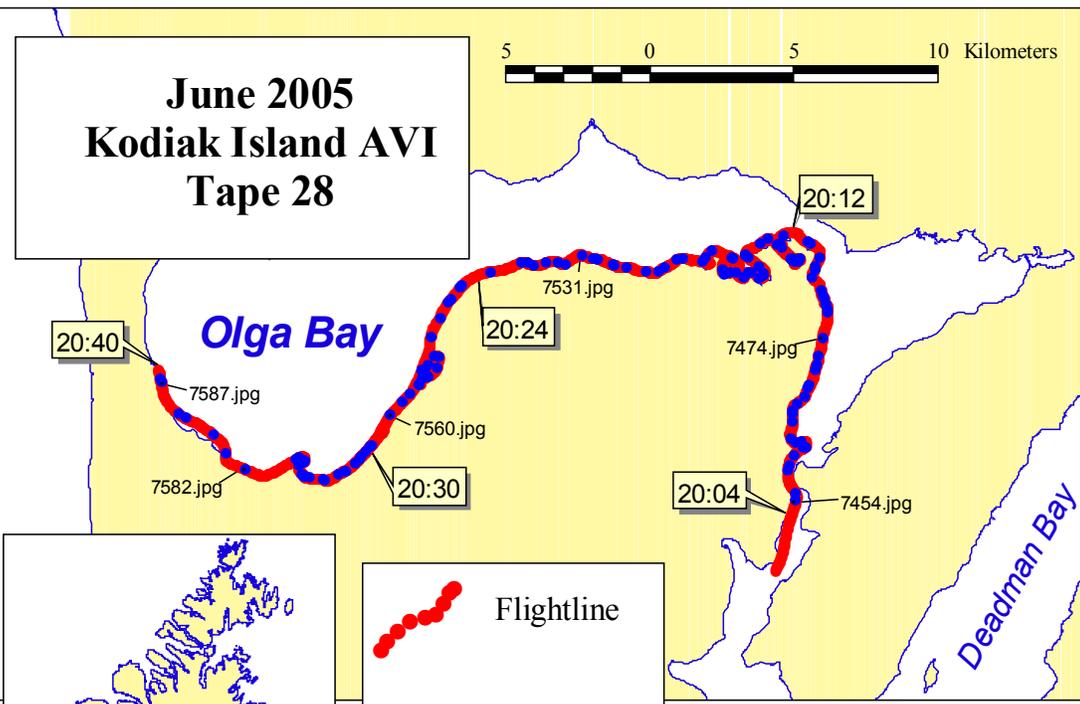
Fuel Break: none

Weather: overcast, wind light

Electronic File Names: Kdkjun21.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
17:17:45	Start tape at NW side Sitkinak	7000	16590	64
17:20:18	Tugidak Passage, west point of Sitkinak	7015	16590	64
17:29:16	SW point of Sitkinak	7061	16590	64
17:32:26	S entrance to Sitkinak Lagoon	7075	16590	64
17:48:30	Cape Sitkinak	7183	16590	65
17:53:00	Lagoon west of Cape Sitkinak	7208	16590	64
17:59:20	N entrance to Sitkinak Lagoon	7243	16590	64
18:14:38	End tape at Sitkinak Lagoon	7346	16590	64

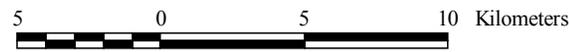
**June 2005
Kodiak Island AVI
Tape 28**



● Flightline

● Digital Photo

Sitkinak Strait



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 28
General Location: Sitkinak Lagoon, Sitkinak Island, Olga Bay

Date: 21 June 05
Time Start: 18:15:28
Time End: 20:40:24
Tape Length: 56:46

Fuel Break: yes

Weather: overcast, light wind

Electronic File Names: Kdkjun21.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
18:15:28	Start tape at Sitkinak Lagoon	7350	16590	64
18:20:40	N entrance to Sitkinak Lagoon	7374	16590	64
18:24:38	Whirlpool Point	7394	16590	64
18:28:56	Dolina Point	7413	16590	64
18:33:16	End Sitkinak, NW side	7436	16590	64
18:33:57	Break for fuel			
20:04:00	Olga Narrows	7455	16590	44
20:12:08	Stockholm Point	7488	16590	44
20:24:06	Stints Bluffs	7538	16590	44
20:29:56	Upper Station	7560	16590	44
20:40:24	End tape at W end Olga Bay	7588	16590	44

June 2005 Kodiak Island AVI Tape 29



 Flightline

 Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 29
General Location: Olga Bay

Date: 21 June, 2005
Time Start: 20:41:08
Time End: 21:28:50
Tape Length: 43:21

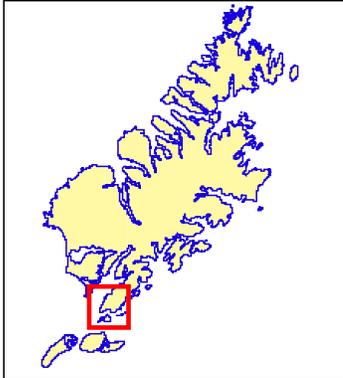
Fuel Break: none

Weather: overcast, winds light to moderate east

Electronic File Names: Kdkjun21.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
20:41:08	Start tape at W end of Olga Bay	7589	16590	44
20:47:26	Stormy Point	7609	16590	44
21:03:36	Akalura Creek	7659	16590	44
21:13:22	Dog Salmon Creek	7703	16590	44
21:18:34	Horse Marine Lagoon	7726	16590	44
21:28:08	Olga Narrows	7761	16590	44
21:28:50	End tape at Olga Narrows	7763	16590	44

**June 2005
Kodiak Island AVI
Tape 30**



ALITAK BAY

Aliulik Peninsula

Flightline
Digital Photo



5 0 5 Kilometers

Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 30
General Location: Alitak Bay, Aiaktalik Island

Date: 22 June, 2005
Time Start: 15:00:32
Time End: 15:57:55
Tape Length: 57:22

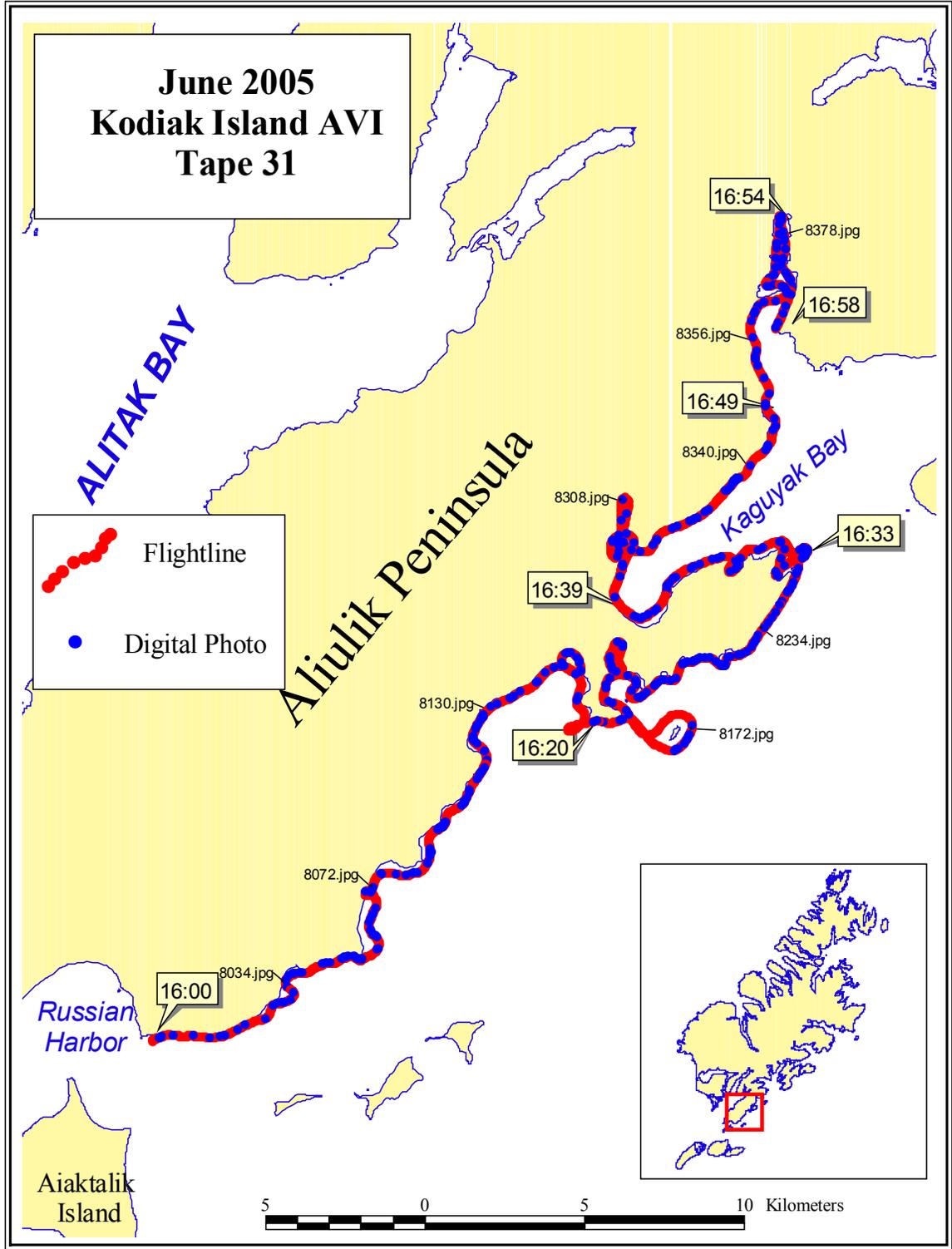
Fuel Break: none

Weather: overcast, winds light NE, intermittent drizzle and fog

Electronic File Names: Kdkjun22.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
15:00:32	Start tape at Humpy Cove	7788	16590	64
15:04:20	Dead Humpback whale on beach	7806	16590	64
15:08:52	Hawk Point	7830	16590	64
15:13:26	Cape Trinity	7847	16590	64
15:20:26	Russian Harbor	7866	16590	64
15:29:48	Transit to Aiaktalik in fog		16590	64
15:31:18	Aiaktalik Island, north tip	7897	16590	64
15:57:55	End tape at completion Aiaktalik Island	8014	16590	64

**June 2005
Kodiak Island AVI
Tape 31**



ALITAK BAY

Aliulik Peninsula

Kaguyak Bay

Russian Harbor

Aiaktalik Island

5 0 5 10 Kilometers

Flightline
Digital Photo

16:00

8034.jpg

8072.jpg

8130.jpg

16:20

8172.jpg

16:39

8234.jpg

16:49

8340.jpg

8356.jpg

16:54

8378.jpg

16:58

Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 31
General Location: Southeast side of Aliulik Peninsula, Kaguyak Bay

Date: 22 June, 2005
Time Start: 15:59:53
Time End: 16:56:43
Tape Length: 56:50

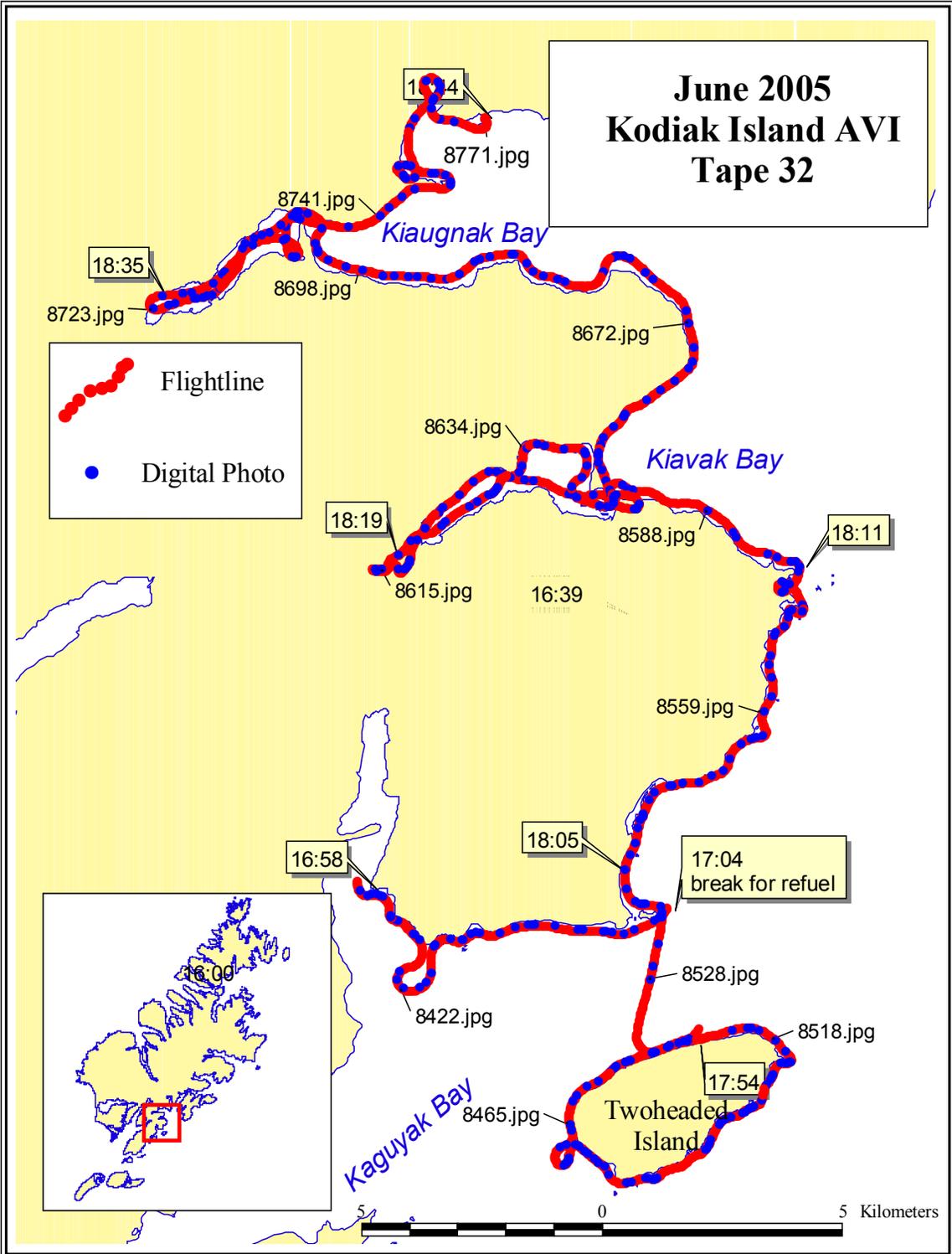
Fuel Break: none

Weather: overcast, winds light to moderate northeast, fog at beginning

Electronic File Names: Kdkjun22.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
15:59:53	Start tape at E side Russian Harbor	8015	16590	64
16:20:24	Boot Point	8162	16590	65
16:33:16	Cape Kaguyak	8253	16590	65
16:39:06	Head of Kaguyak Bay	8292	16590	65
16:49:44	Entrance to Jap Bay	8350	16590	65
16:54:08	Head of Jap Bay	8380	16590	65
16:56:36	End tape at point E side Jap Bay	8400	16590	65

June 2005 Kodiak Island AVI Tape 32



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 32
General Location: Jap Bay, Kiavak Bay, Kaiugnak Bay

Date: 22 June, 2005
Time Start: 16:57:55
Time End: 18:42:41
Tape Length: 55:39

Fuel Break: yes, (Filmed Sportsman's Lodge boat on camera only)

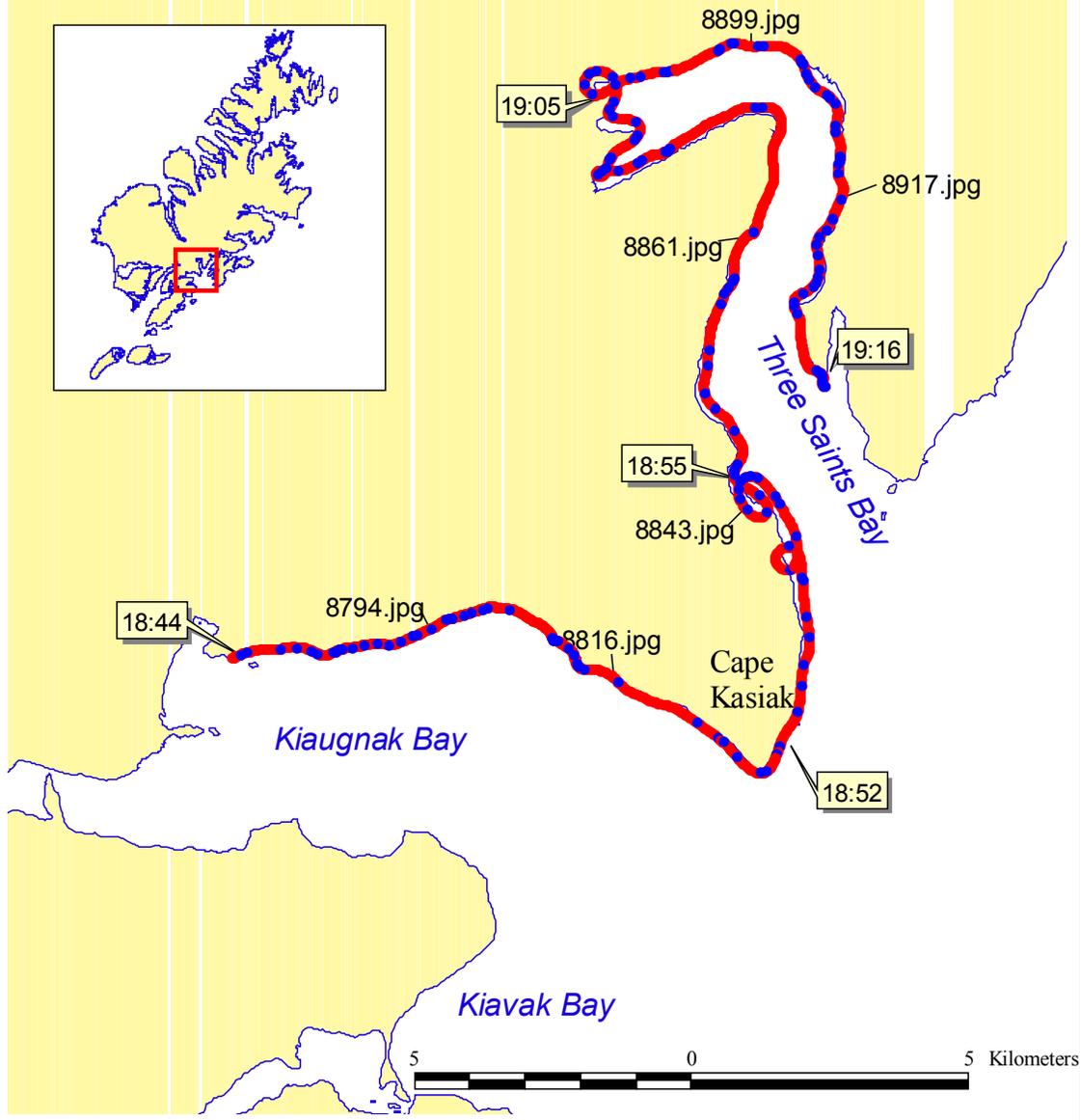
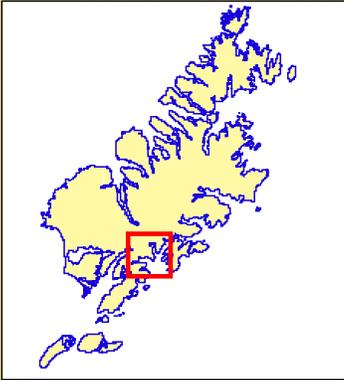
Weather: overcast, winds light to moderate east, intermittent drizzle

Electronic File Names: Kdkjun22.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
16:57:55	Start tape at point E side Jap Bay	8406	16590	65
17:04:07	Knoll Point	8449	16590	65
17:04:07	Transit to Old Harbor –refuel			
17:53:58	Twoheaded Island	8451	16590	65
18:04:12	Knoll Point	8532	16590	65
18:10:58	Cape Kiavak	8579	16590	65
18:18:34	Head Kiavak Bay/Lagoon	8616	16590	44
18:34:54	Head Kaiugnak Bay/Lagoon	8723	16590	44
18:44:18	End tape at N side Kaiugnak Bay	8775	16590	44

**June 2005
Kodiak Island AVI
Tape 33**

Flightline
Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 33
General Location: Kaiugnak Bay, Three Saints Bay

Date: 22 June, 2005
Time Start: 18:44:04
Time End: 19:16:40
Tape Length: 32:37

Fuel Break: none

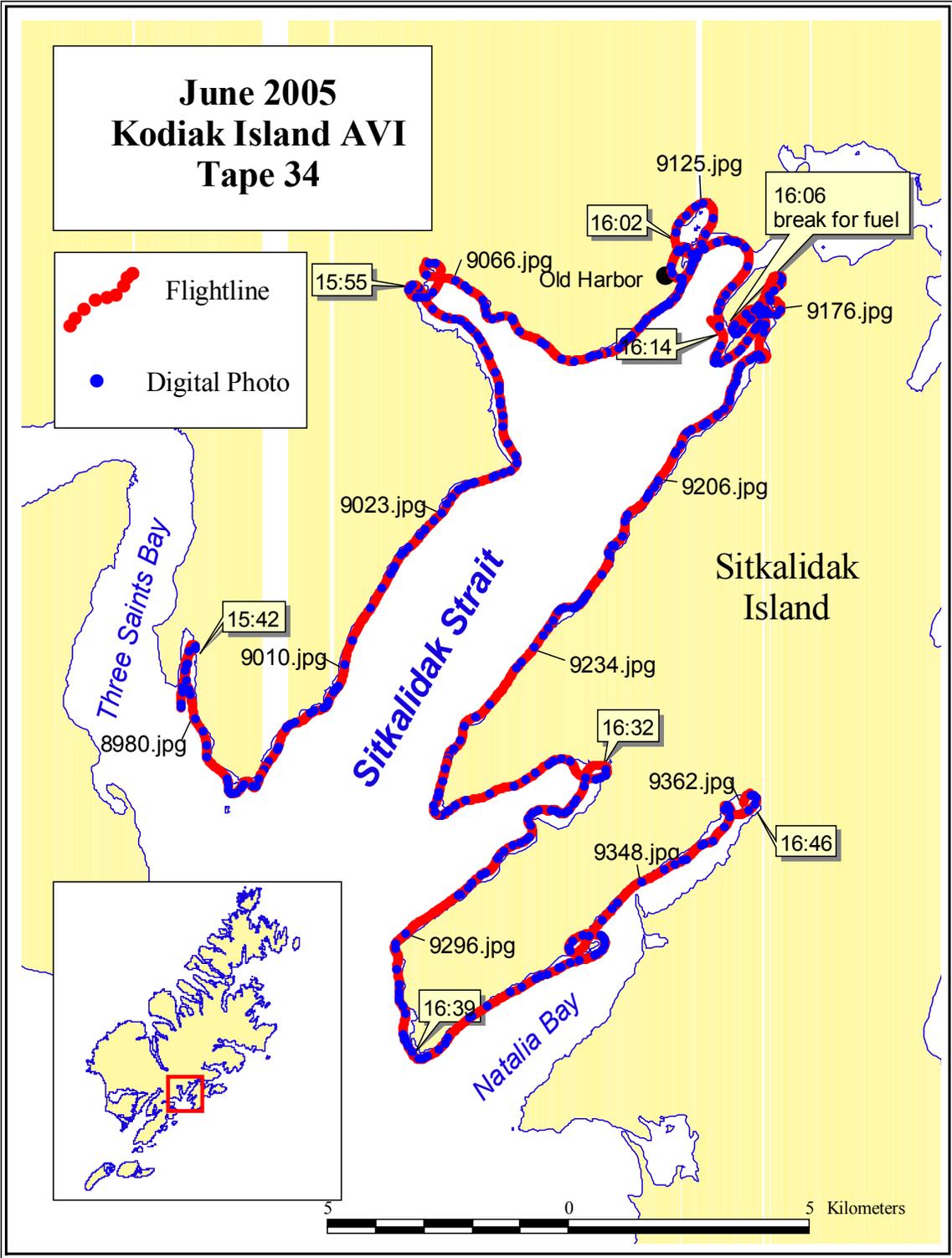
Weather: overcast, winds light to moderate east

Electronic File Names: Kdkjun22.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
18:44:04	Start tape at N side of Kaiugnak Bay	8777	16590	44
18:51:46	Cape Kasiak	8822	16590	44
18:55:00	Village site, entrance to Three Saints Bay	8834	16590	44
19:03:48	Head of Three Saints Bay	8874	16590	44
19:16:40	End tape at Cape Liakik	8938	16590	44

June 2005 Kodiak Island AVI Tape 34

● Flightline
● Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 34
General Location: Sitkalidak Strait

Date: 23 June, 2005
Time Start: 15:42:42
Time End: 16:46:48
Tape Length: 57:11

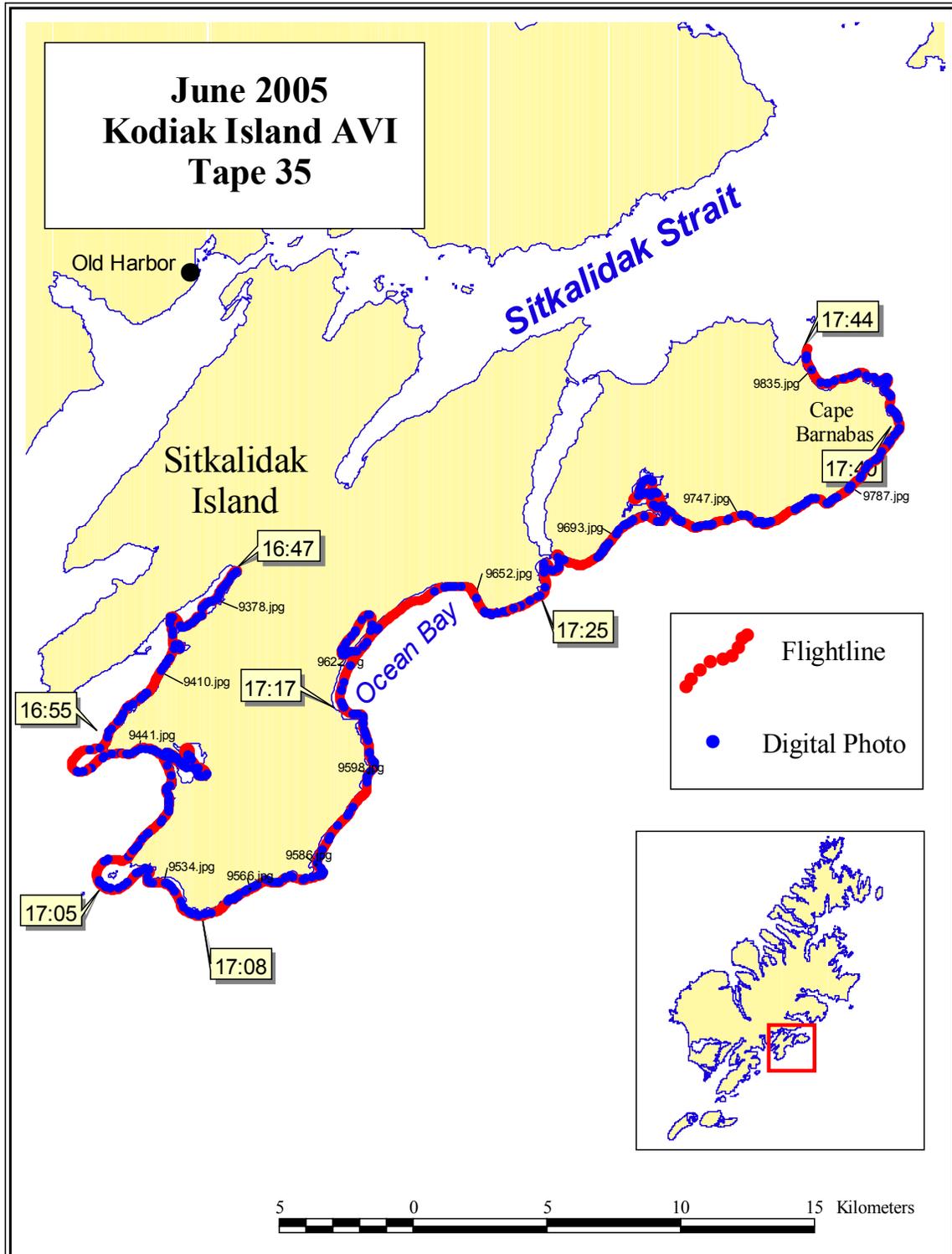
Fuel Break: yes, 16:06:32 to 16:14:02

Weather: Clear, sunny, calm, glassy water

Electronic File Names: Kdkjun23.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
15:42:42	Start tape at Cape Liakik	8967	16592	44
15:55:02	Head of Barling Bay	9055	16592	44
16:01:36	Old Harbor	9108	16592	44
16:05:30	Sitkalidak Island	9137	16592	44
16:06:32	Break for fuel top-up		16592	
16:14:02	Resume Sitkalidak Island	9144	16592	44
16:32:26	Head of Newman Bay	9268	16592	44
16:39:00	Natalia Point	9312	16592	44
16:46:48	End tape at head Sitkalidak Lagoon	9364	16592	44

**June 2005
Kodiak Island AVI
Tape 35**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 35
General Location: South end and SE side of Sitkalidak Island
Date: 23 June, 2005
Time Start: 16:47:29
Time End: 17:44:44
Tape Length: 57:15

Fuel Break: none

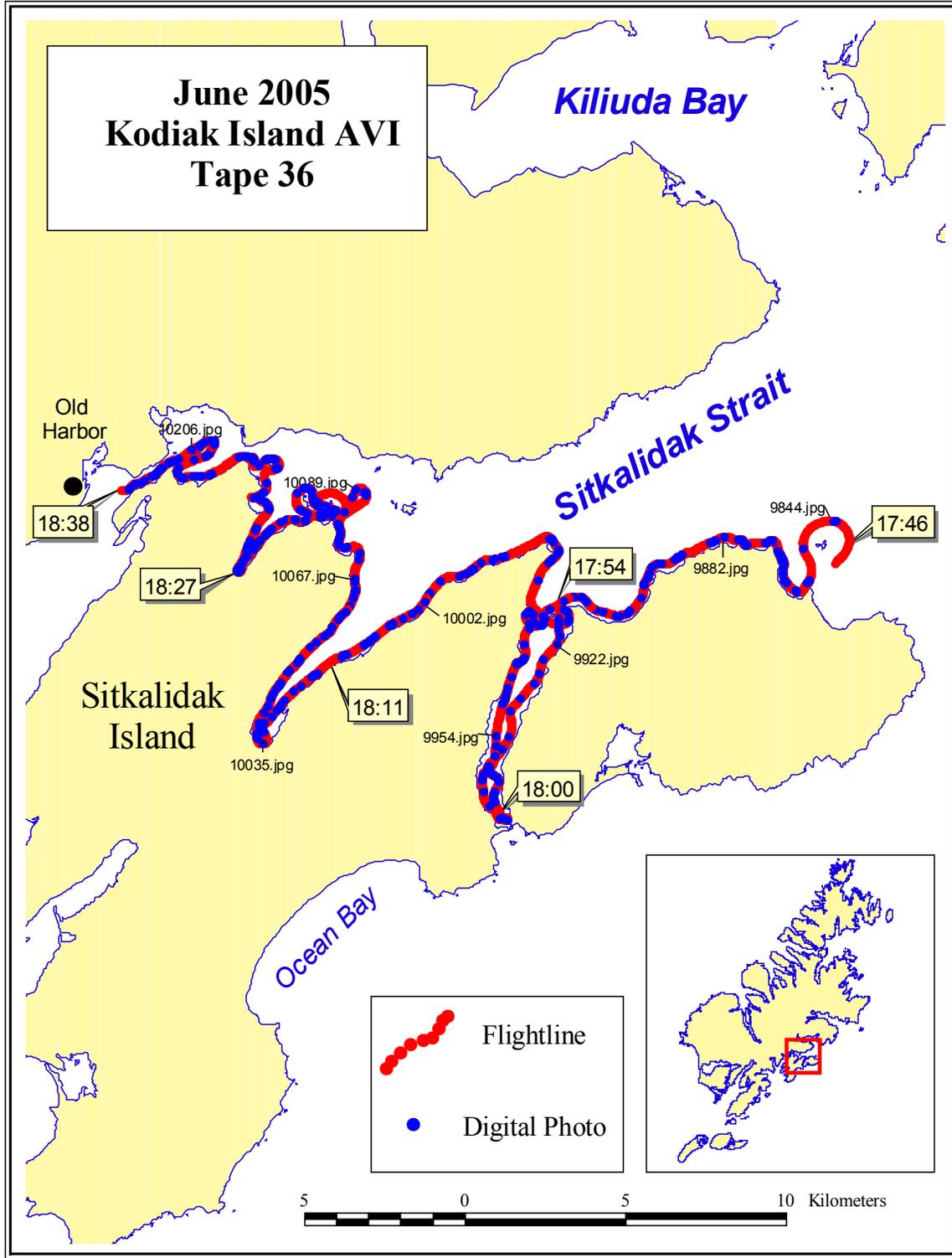
Weather: sunny, calm, winds very light

Electronic File Names: Kdkjun23.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
16:47:29	Start tape at head of Sitkalidak Lagoon	9369	16592	44
16:55:42	South side Natalia Bay	9426	16592	44
17:04:58	Puffin Island	9512	16592	44
17:08:14	Black Point	9514	16592	65
17:17:02	South side of Ocean Bay	9618	16592	45
17:25:26	Entrance to Partition Cove	9668	16592	45
17:40:22	Cape Barnabas	9805	16592	45
17:44:44	End tape at prominent point S of Table Island	9837	16592	45

Note: Dead whale 57 4.6552 N 153 12.9167 W, time 17:19:57
 Bouyancy floats at 57 9.4502 N 152 52.4378 W, time 17:40:57

**June 2005
Kodiak Island AVI
Tape 36**



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 36
General Location: East end Sitkalidak Island

Date: 23 June, 2005
Time Start: 17:45:45
Time End: 18:38:04
Tape Length: 52:19

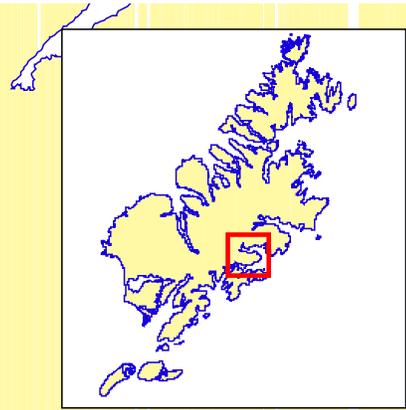
Fuel Break: none

Weather: sunny, winds light east

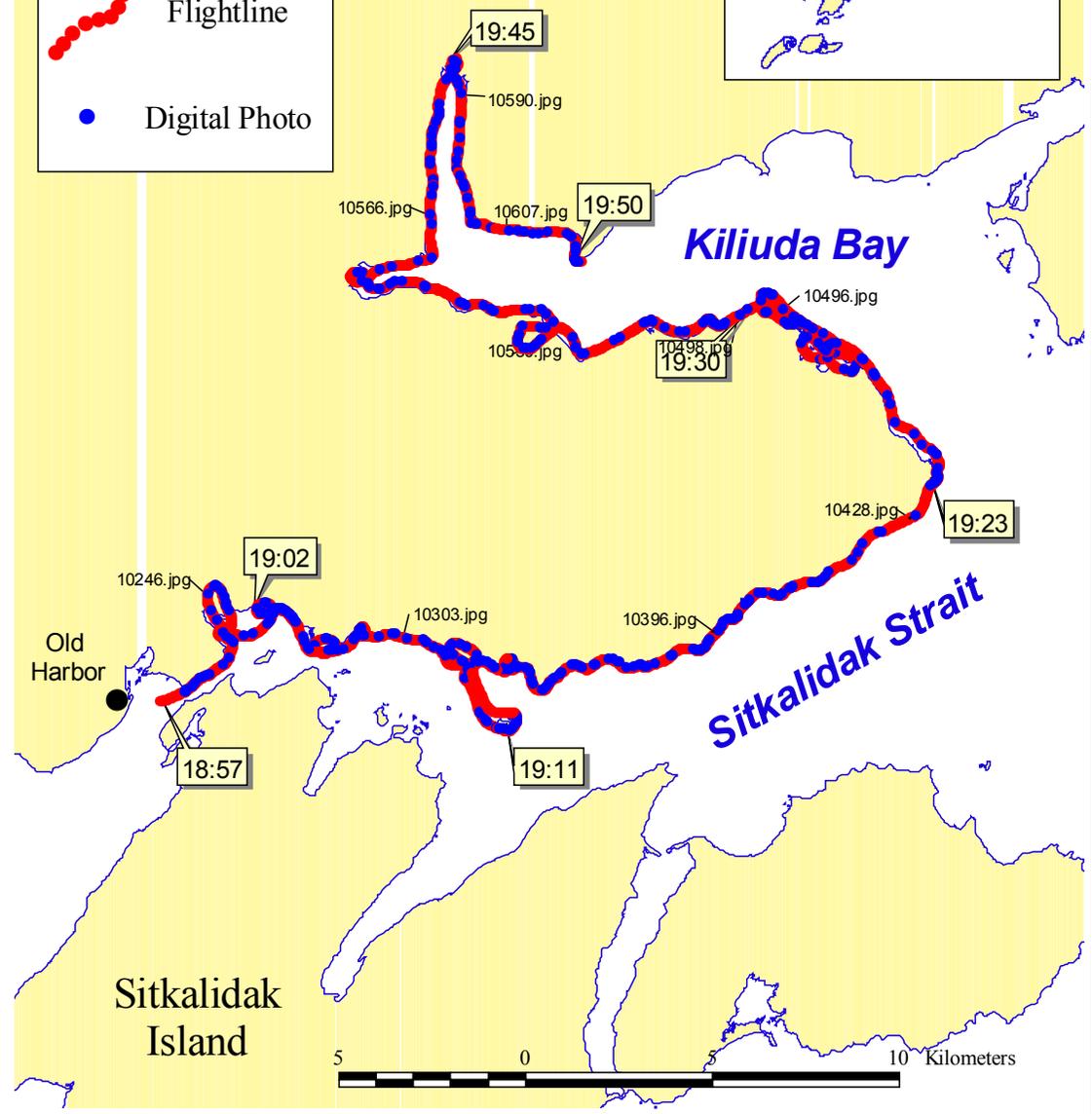
Electronic File Names: Kdkjun23.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
17:45:45	Start tape at Table Island	9843	16592	45
17:54:12	Entrance to McDonald Lagoon	9907	16592	45
18:00:08	Head of McDonald Lagoon	9942	16592	45
18:11:18	Port Hobron, whaling station ruins	10013	16592	45
18:27:38	Head of Ameer Bay	10142	16592	45
18:38:04	End tape at completion of Sitkalidak Island	10222	16592	44

**June 2005
Kodiak Island AVI
Tape 37**



● Flightline
● Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 37
General Location: Sitkalidak Passage, Sitkalidak Strait, Kiliuda Bay

Date: 23 June, 2005
Time Start: 18:56:27
Time End: 19:50:27
Tape Length: 54:00

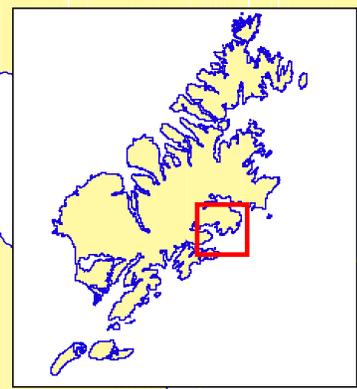
Fuel Break: none

Weather: sunny, winds light east

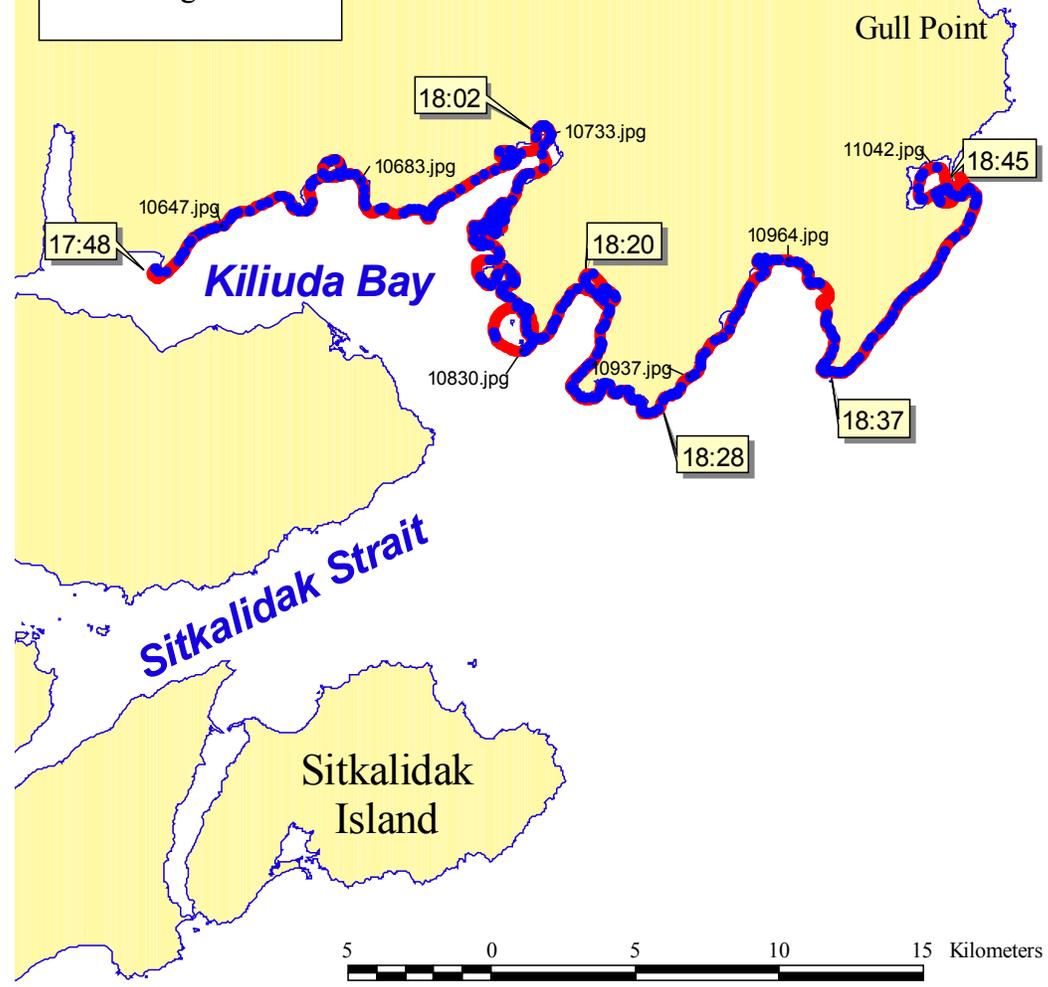
Electronic File Names: Kdkjun23.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
18:56:27	Start tape at Sitkalidak Passage	10226	16592	44
19:01:54	Massacre Island	10254	16592	44
19:10:54	Cathedral Island	10330	16592	45
19:23:26	Left Cape	10437	16592	45
19:29:58	Pivot Point	10486	16592	45
19:45:24	N arm of Kiliuda Bay	10585	16592	45
19:50:27	End tape at prominent spit, North side of Kiliuda Bay	10620	16592	45

**June 2005
Kodiak Island AVI
Tape 38**



Flightline
Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 38
General Location: Kiliuda Bay, Boulder Bay, Dangerous Cape

Date: 24 June, 2005
Time Start: 17:48:04
Time End: 18:45:08
Tape Length: 57:05

Fuel Break: none

Weather: Broken cloud, partial overcast, calm

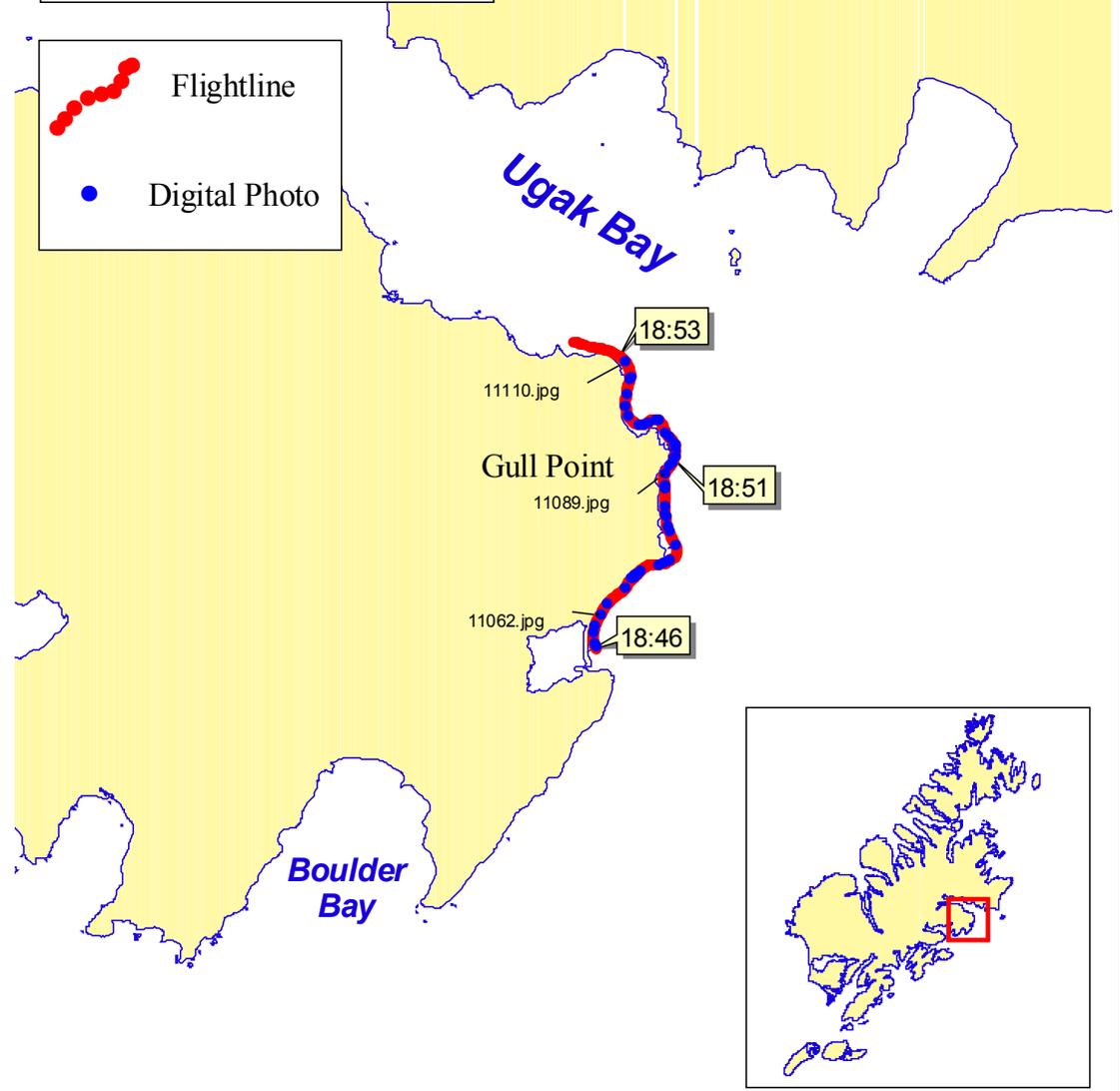
Electronic File Names: Kdkjun24.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
17:48:04	Start tape at prominent spit, N side Kiliuda Bay	10634	16592	45
17:52:40	Coxcomb Point	10661	16592	45
18:01:50	Shearwater Bay	10731	16592	45
18:19:44	Santa Flavia Bay	10857	16592	45
18:27:46	Outer Right Cape	10920	16592	45
18:36:56	Dangerous Cape	10987	16592	45
18:45:08	End tape at unnamed lagoon	11050	16592	45

Note: *Macrocystis* confirmed at Pillar Point, 57.30693 N 152.89478 W

**June 2005
Kodiak Island AVI
Tape 39**

Flightline
Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 39
General Location: Gull Point

Date: 24 June, 2005
Time Start: 18:46:08
Time End: 18:53:06
Tape Length: 07:02

Fuel Break: none

Weather: partial overcast, winds light

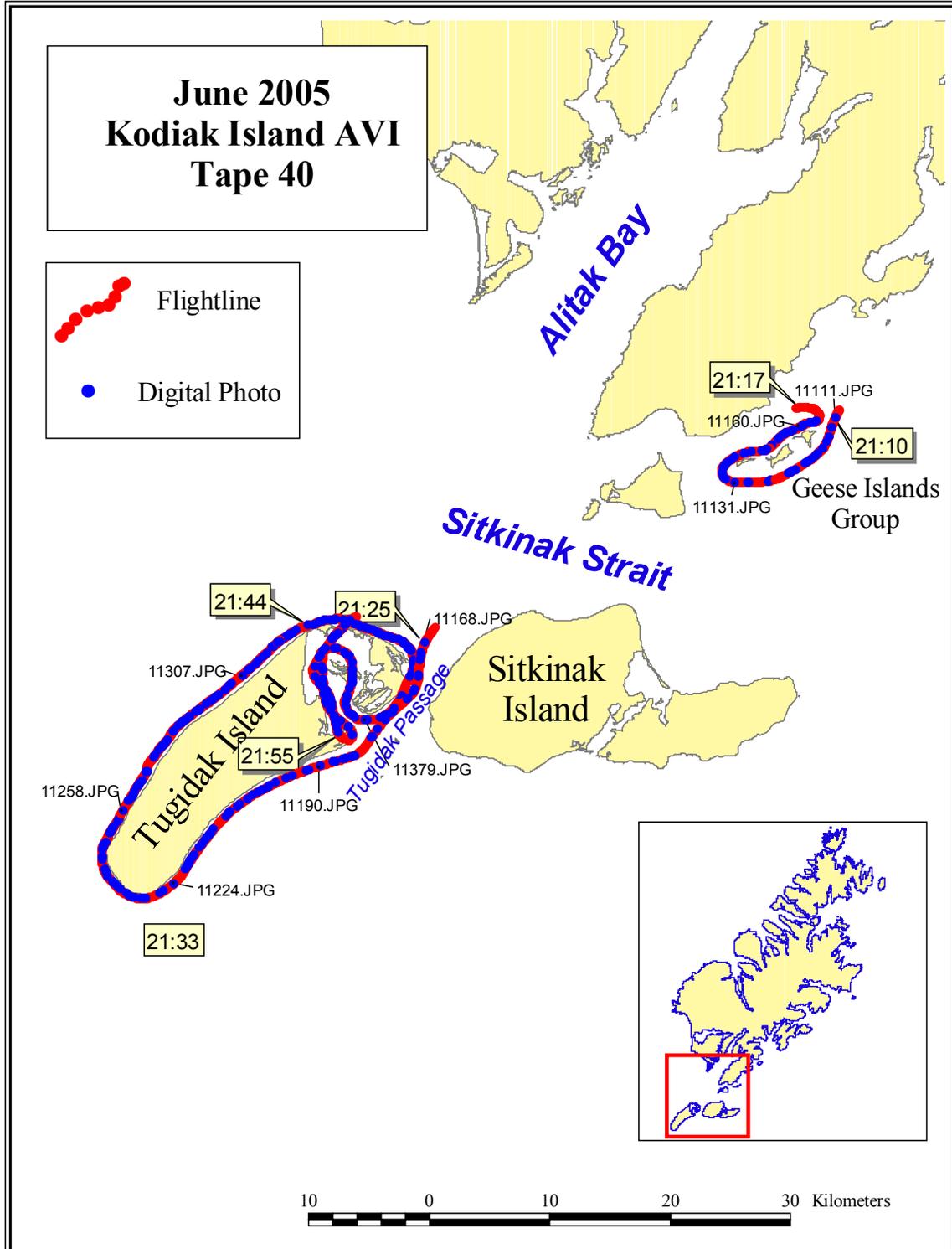
Electronic File Names: Kdkjun24.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
18:46:08	Start tape at lagoon south of Gull Point	11058	16592	45
18:51:22	Gull Point	11094	16592	45
18:53:06	End tape slightly N of Gull Point	11110	16592	45

**June 2005
Kodiak Island AVI
Tape 40**

 Flightline

 Digital Photo



Kodiak Island 2005 Aerial Video Imaging Survey

Tape Number: 40 (fixed wing)

General Location: Tugidak Island

Date: 27 June, 2005

Time Start: 21:08:08

Time End: 21:58:41

Tape Length: 41:53

Fuel Break: none

Weather: overcast, intermittent rain, fog

Electronic File Names: Kdkjun27.txt, KDK05june_a.shp

UTC Time	Location	JPEG No.	Chart	Atlas Page
21:10:00	Start tape at E end Geese Islands		16590	64/65
21:13:12	W end Geese Islands		16590	64/65
21:16:33	Complete Geese Islands		16590	64/65
21:16:34	Transit to Tugidak			
21:25:27	Tugidak Passage, E end		16580	64
21:33:10	S tip of Tugidak		16580	64
21:43:50	N tip of Tugidak, start barrier spit		16580	64
21:49:10	Entrance to lagoon		16580	64
21:58:40	End of tape, complete Tugidak		16580	64