

2003
Aerial Video Imaging Survey,
Upper Cook Inlet, Alaska
(17 - 18 June 2003)



prepared for



Cook Inlet Citizens Advisory Council
Kenai, Alaska

COASTAL & OCEAN RESOURCES INC.

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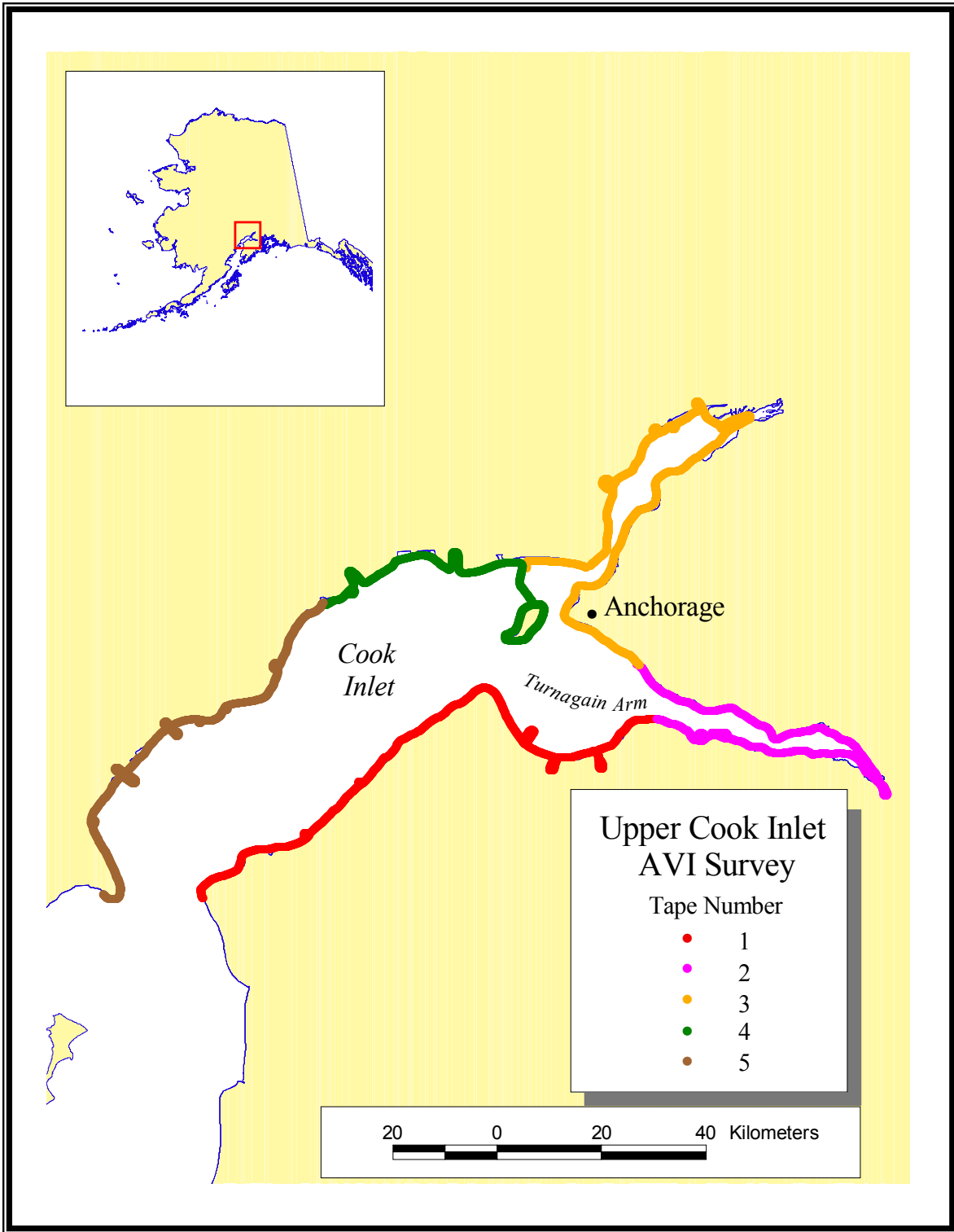


Figure 1. Location of individual tapes from the 2003 Upper Cook Inlet AVI Survey.

INTRODUCTION

This survey involved the use of digital video camera technology to image the shoreline of Upper Cook Inlet 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 Cook Inlet Regional Citizens Advisory Council (CIRCAC) located in Kenai, Alaska.

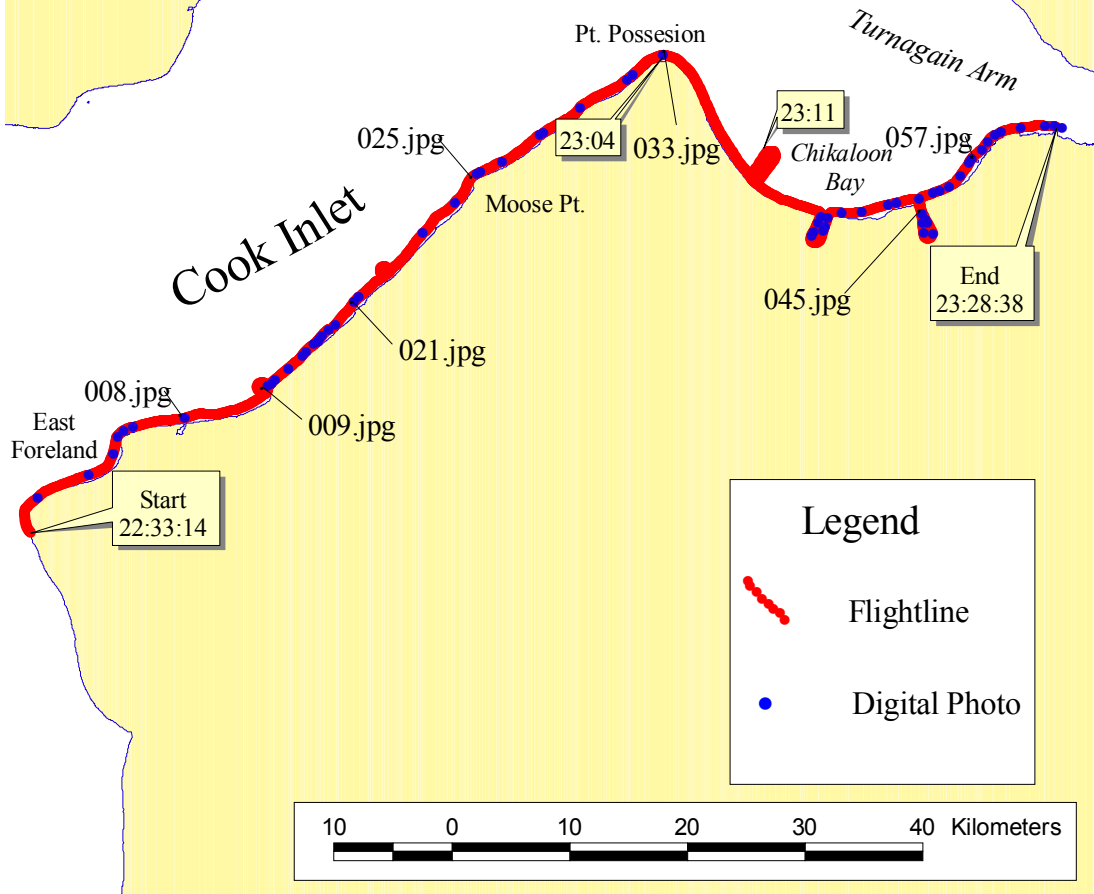
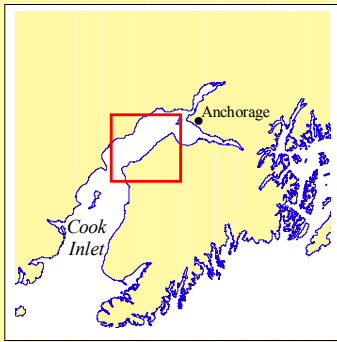
The flight crew names and responsibilities are summarized in Table 1.

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>	Susan Saupe CIRCAC	contract management biology commentary digital photographs
<i>navigator</i>	Neil Borecky CORI	in flight navigation & recording post-flight track plotting Tape5 geomorphology commentary
<i>pilots</i>	Will Statathite – Clearwater Air	Fixed wing pilot

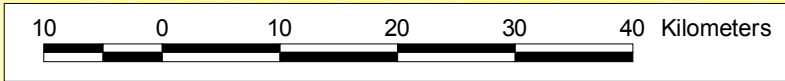
Logs and flightline tracks of tapes are summarized sequentially in the following pages.

2003 Upper Cook Inlet Aerial Video Imaging Survey Tape #1



Legend

-  Flightline
-  Digital Photo

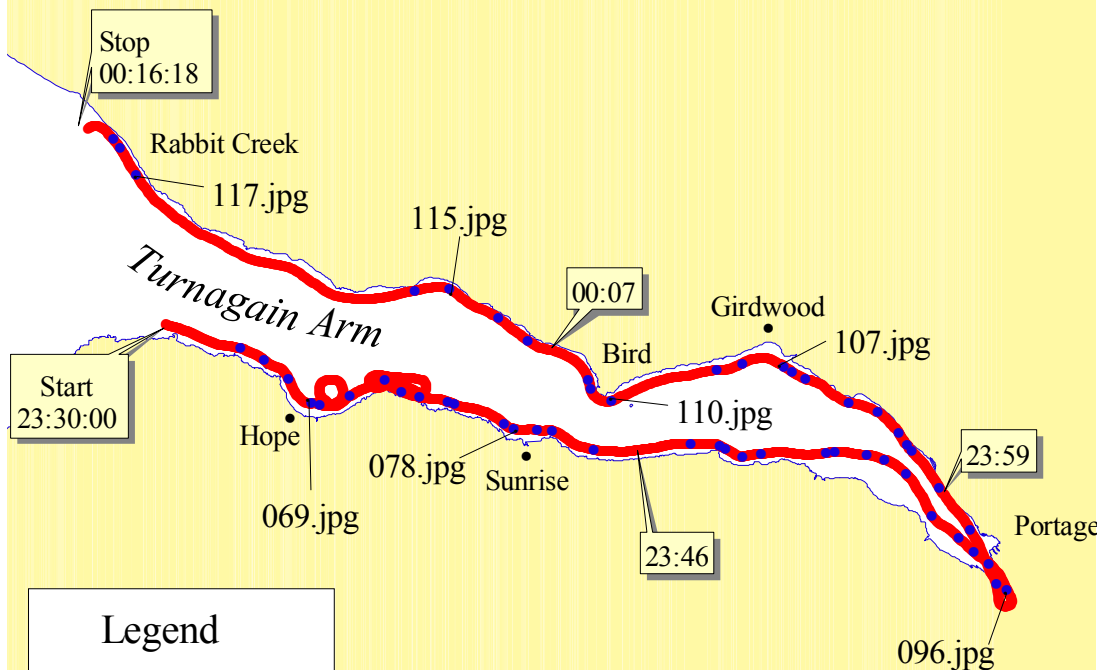
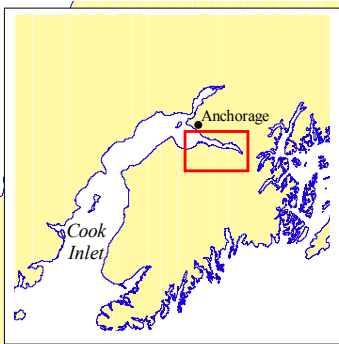


Upper Cook Inlet 2003 Aerial Video Imaging Survey

Tape Number: Upper Cook -1
General Location: East Foreland to Turnagain Arm
Date: June 17, 2003
Time Start: 22:33:14
Time Stop: 23:28:38
Tape Length: 59:14
Weather: sunny
Electronic File: UpperCook_afinal.shp, UpperCookphoto_a.shp

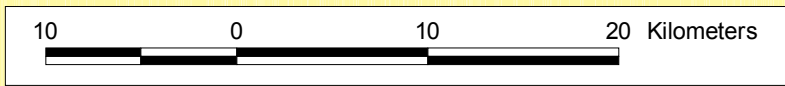
Time (UTC)	Location	Film Frame	Chart	Gazette Page
22:33:14	East Foreland	1	16660	69
22:37:36	Boulder Pt	4	16660	69
22:43:46	Swanson River	9	16660	69
22:55:57	Moose Pt	25	16660	70
23:03:58	Pt. Possession	33	16660	82
23:15:45	NW corner of Chickaloon Bay	34	16660	70
23:21:13	Chickaloon River channel	45	16660	70
23:25:31	Burst Is	57	16660	70
23:28:38	Gull Rock, Turnagain Arm	65	16660	70

2003 Upper Cook Inlet Aerial Video Imaging Survey Tape #2



Legend

- Flightline
- Digital Photo

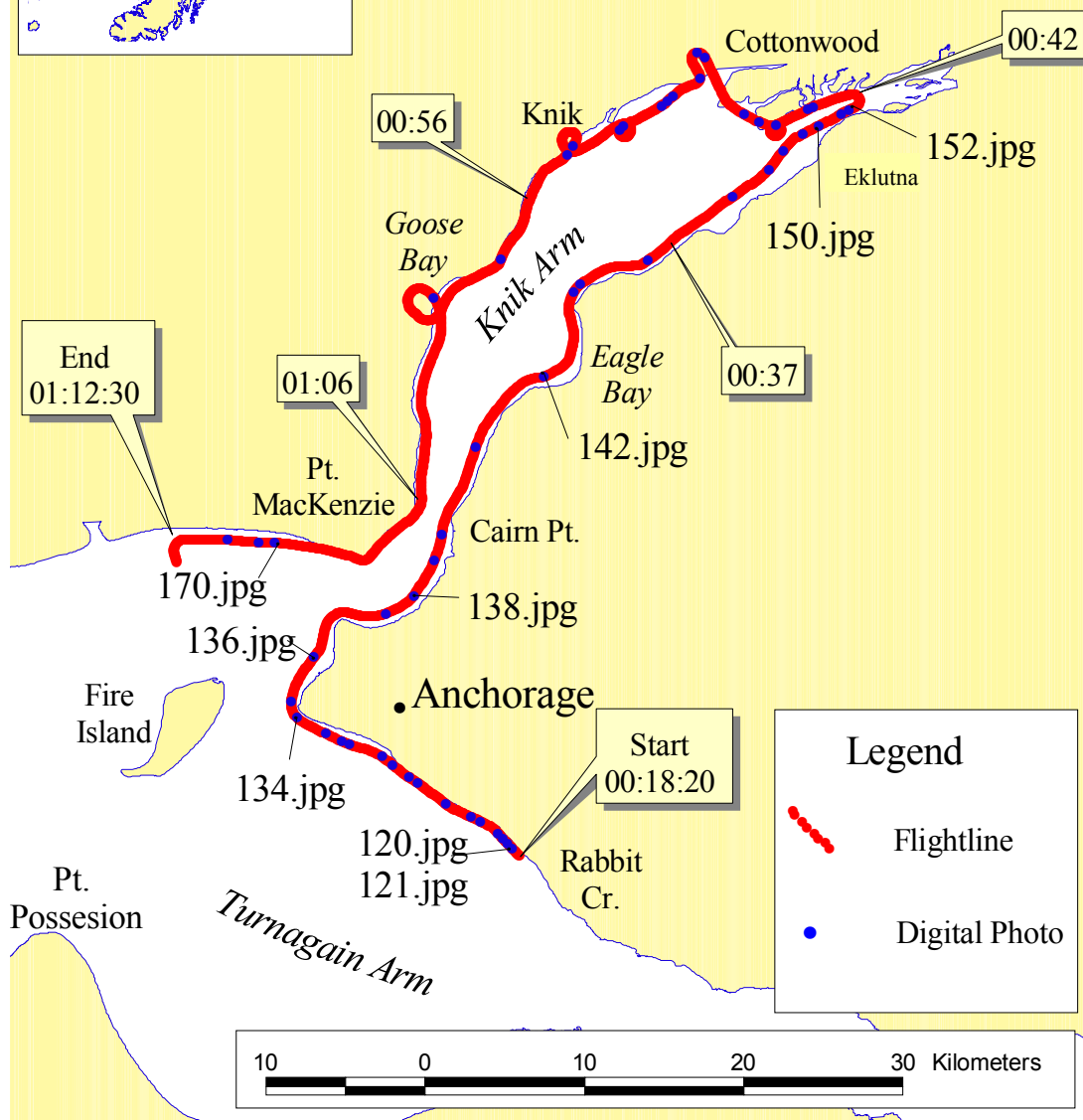
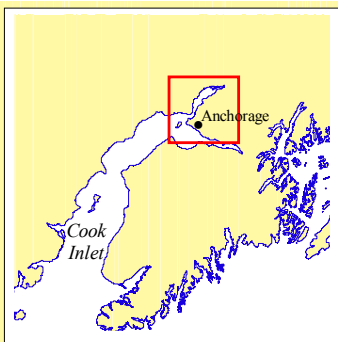


Upper Cook Inlet 2003 Aerial Video Imaging Survey

Tape Number: Upper Cook -2
General Location: Turnagain Arm
Date: June 17, 2003
Time Start: 23:30:00
Time Stop: 00:16:18
Tape Length: 48:56
Weather: sunny
Electronic File: UpperCook_afinal.shp, UpperCookphoto_a.shp

Time (UTC)	Location	Film Frame	Chart	Gazette Page
23:30:00	Gull Rock, Turnagain Arm	66	16660	71
23:33:58	Cotton Cr, Hope	69	16660	71
23:43:46	Six Mile Cr, Sunrise	78	16660	71
23:56:15	Placer Cr, Portage	96	16660	71
00:02:34	Glacier Cr, Girdwoos	107	16660	71
00:05:52	Bird Pt	110	16660	71
00:09:04	Bird Cr	115	16660	71
00:15:26	Rabbit Cr	117	16660	82
00:16:18	Rabbit Creek flats	119	16660	82

2003 Upper Cook Inlet Aerial Video Imaging Survey Tape #3

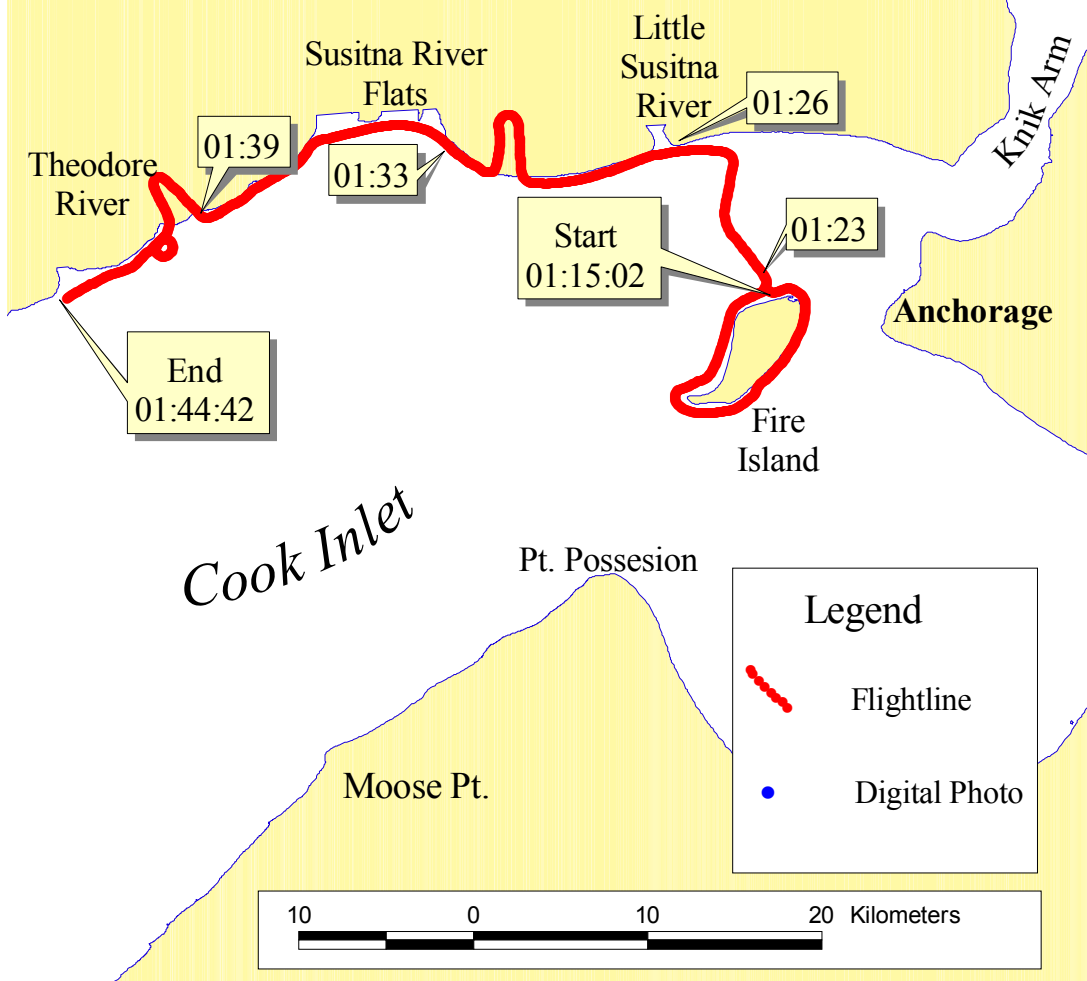
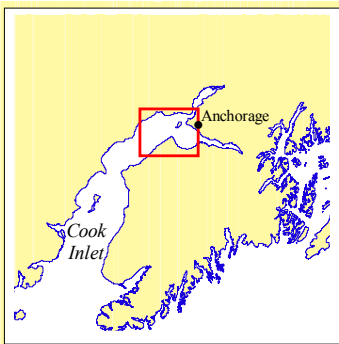


Upper Cook Inlet 2003 Aerial Video Imaging Survey

Tape Number: Upper Cook -3
General Location: Anchorage, Knik Arm
Date: June 17, 2003
Time Start: 00:18:20
Time Stop: 01:12:30
Tape Length: 56:08
Weather: sunny
Electronic File: UpperCook_afinal.shp, UpperCookphoto_a.shp

Time (UTC)	Location	Film Frame	Chart	Gazette Page
00:18:20	Rabbit Creek flats	120	16660	82
00:23:21	Campbell Pt, Anchorage Int. Airport	134	16660	82
00:24:36	Pt. Woronzof, sewer plant	136	16660	82
00:27:23	Chester Cr, Anchorage	138	16660	82
00:28:36	Anchorage Container Dock	139	16660	82
00:28:58	Cairn Pt	140	16660	82
00:32:33	w end Eagle Bay	142	16660	83
00:36:25	Fire Cr	145	16660	83
00:38:46	Peters Cr	146	16660	83
00:41:52	Eklutna, Knik River Channel	152	16660	83
00:48:06	Cottonwood Cr, Cottonwood	158	16660	83
00:54:34	Knik	166	16660	83
01:00:10	Goose Bay	169	16660	82
01:07:02	Pt. MacKenzie	170	16660	82
01:12:30	mouth of Little Susitna River		16660	82

2003 Upper Cook Inlet Aerial Video Imaging Survey Tape #4

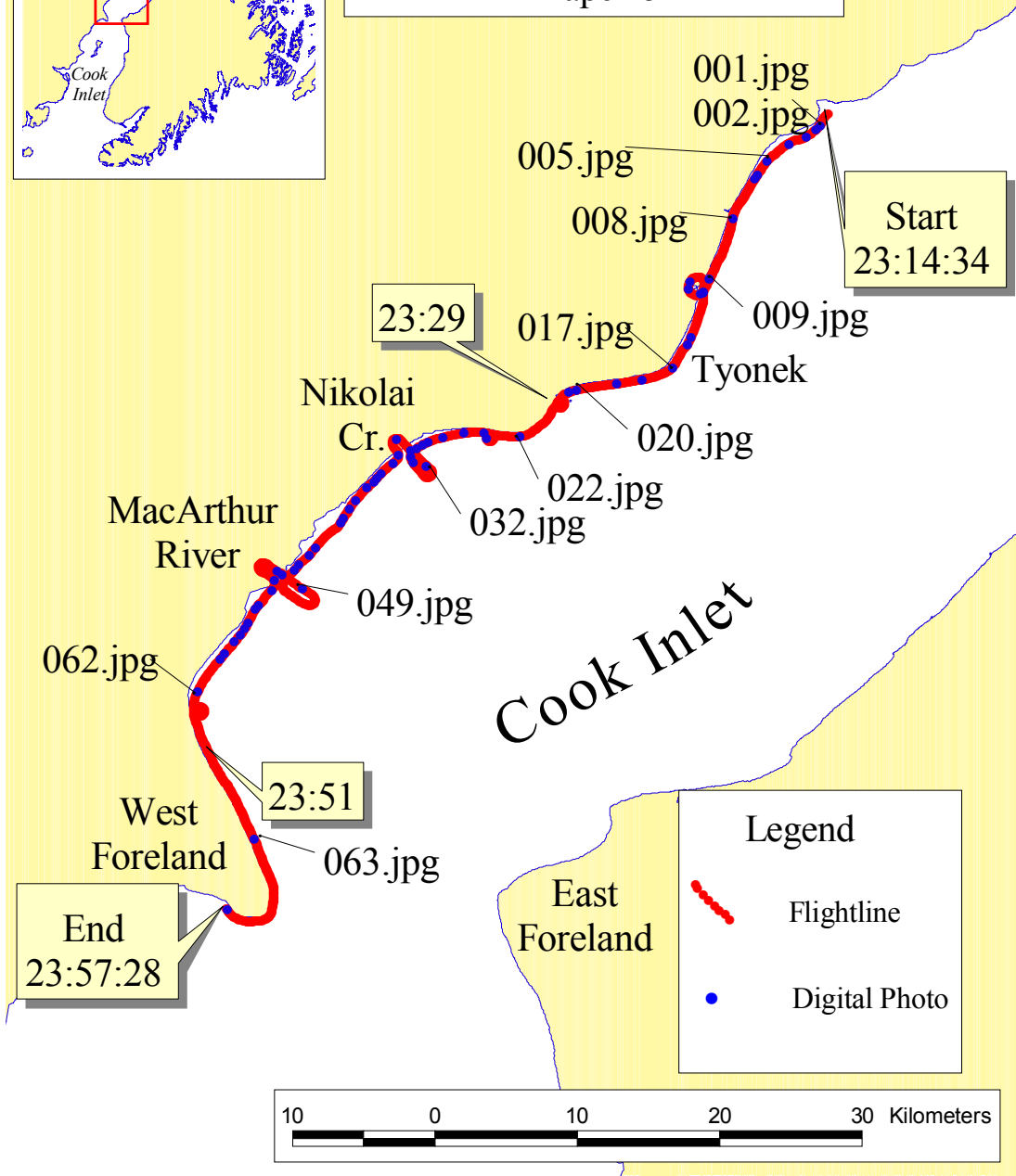
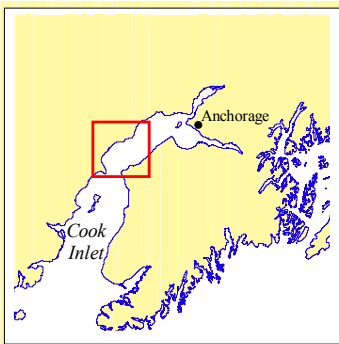


Upper Cook Inlet 2003 Aerial Video Imaging Survey

Tape Number: Upper Cook -4
General Location: Fire Island, Susitna River, Beluga River
Date: June 17, 2003
Time Start: 01:15:02
Time Stop: 01:44:42
Tape Length: 33:33
Weather: sunny
Electronic File: UpperCook_afinal.shp, UpperCookphoto_a.shp

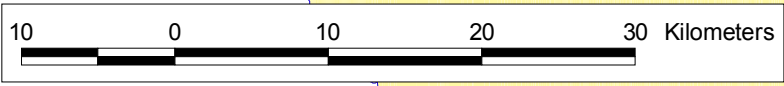
Time (UTC)	Location	Film Frame	Chart	Gazette Page
01:15:02	NE tip of Fire Island	N/A	16660	82
01:19:32	SW tip of Fire Island	N/A	16660	82
01:22:36	complete circuit of Fire Is	N/A	16660	82
01:26:04	mouth of Little Susitna River	N/A	16660	82
01:33:34	mouth of Susitna River	N/A	16660	82
01:38:56	mouths of Lewis and Theodore Rivers	N/A	16660	82
01:44:42	mouth of Beluga River	N/A	16660	82

2003 Upper Cook Inlet
Aerial Video Imaging Survey
Tape #5



Legend

- Flightline
- Digital Photo



Upper Cook Inlet 2003 Aerial Video Imaging Survey

Tape Number: Upper Cook -5
General Location: Beluga River, Trading Bay, West Foreland
Date: June 18, 2003
Time Start: 23:14:34
Time Stop: 23:57:28
Tape Length: 45:23
Weather: sunny
Electronic File: UpperCook_afinal.shp, UpperCookphoto_a.shp

Time (UTC)	Location	Film Frame	Chart	Gazette Page
23:14:34	Beluga River mouth	1	16660	82
23:16:48	Beluga runway	5	16660	81
23:18:53	Three Mile Cr	8	16660	81
23:20:53	Chuitna River	9	16660	81
23:24:55	North Foreland; dock	17	16660	81
23:27:29	Old Tyonek	20	16660	81
23:30:12	Granite Pt	22	16660	81
23:35:17	Nikolai Cr; transect	32	16660	69
23:40:56	MacArthur River; transect	48	16660	69
23:43:09	Monopod Offshore Rig	49	16660	69
23:53:46	West Foreland	63	16660	69
23:57:28	Kustatan	64	16660	69

note: Hi8 tape time not synchronized – 1min 2 sec offset