##  <br> Sowifeest Alesho <br> 



Prepared for the National Marine Fisheries Service


Figure 1. Location of individual tapes from the 2004 Southeast Alaska AVI Survey

This survey combines the use of digital video camera technology with real-time GPS mapping to image the shoreline of three areas in southeast Alaska: Icy Strait, Lynn Canal, and Sitka, 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 NOAA and National Marine Fisheries Services, located in Juneau Alaska.

Figure 1 shows the overall flight coverage by tape number. The flight crew names and responsibilities are summarized in Table 1.

## Table 1 Southeast Alaska AVI Flight Personnel and Responsibilities,

| Function | $\begin{array}{c}\text { Individual/ } \\ \text { Affiliation }\end{array}$ | Responsibilities |
| :---: | :--- | :--- | \left\lvert\, \(\left.\begin{array}{l}geomorphologist <br>

project leader\end{array} \quad $$
\begin{array}{l}\text { John Harper } \\
\text { CORI }\end{array}
$$ \quad $$
\begin{array}{l}\text { co-ordination of survey, } \\
\text { video imaging, } \\
\text { geomorphology commentary, } \\
\text { project reporting }\end{array}
$$\right.\right]\)


Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-01
General Location: Port Frederick, The Narrows, Neka Bay
Date:
Time Start:
June 3, 2004
Time Stop:
Tape Length:
14:05:00

Weather:
15:01:13
59:05

Electronic File: jun3_1.trk, jun3_1.txt, navdatav2.mdb

| Time <br> (UTC) | Location |
| :---: | :--- | :--- | :---: | :---: |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-02
General Location: West side Port Frederick, south side of Icy Strait (west of Pt. Adolphus)
Date:
Time Start:
June 3, 2004
Time Stop:
15:03:28

Tape Length:
Weather:
16:35:41
59:47
clear, sunny, very light winds
jun3_1.txt, navdatav2.mbd

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $15: 04: 00$ | Log sort north of Neka Bay | SEAK04_J3_D1_162.JPG | 17302 | 32 |
| $15: 09$ | point north of Humpback <br> creek | SEAK04_J3_D1_180.JPG | $"$ | $"$ |
| $15: 16$ | Halibut Island | SEAK04_J3_D1_192.JPG | $"$ | $"$ |
| $15: 23$ | Crist Point | SEAK0__J3_D1_201.JPG | $"$ | $"$ |
| $15: 36$ | Flynn Cove | SEAK04_J3_D1_234.JPG | $"$ | $"$ |
| $15: 40$ | Eagle Point | SEAK04_J3_D1_243.JPG | $"$ | $"$ |
| $15: 48$ | Chicken Creek | SEAK04_J3_D1_252.JPG | $"$ | $"$ |
|  | break for refuel | SEAK04_J3_D1_253.JPG | $"$ | $"$ |
| $16: 20$ | Chicken Creek | SEAK04_J3_D1_295.JPG | $"$ | $"$ |
| $16: 27$ | Point Adolphus | SEAK04_J3_D1_308.JPG | $"$ | $"$ |
| $16: 33$ | point south side Icy strait |  |  |  |
| $16: 35$ | end of tape 2 |  |  |  |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-03
General Location: Icy Strait, Mud Bay, Idaho Inlet, South Inian Pass
Date:
Time Start:
Time Stop:
Tape Length:
Weather:
June 3, 2004

Electronic File:
16:36:46
17:32:49
58:21
Clear, sunny, 10-15 knot westerly
navdatav2.mbd

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $16: 36$ | East of Mud Bay | SEAK_J3_D1_312.jpg | 17302 | 32 |
| $16: 38$ | Mud Bay | SEAK_J3_D1_322.jpg | $"$ | $"$ |
| $16: 43$ | Mud Bay River | SEAK_J3_D1_321.jpg | $"$ | $"$ |
| $16: 48$ | Quartz Point | SEAK_J3_D2_001.jpg | $"$ | 31 |
| $16: 56$ | point E. entrance Idaho Inlet | SEAK_J3_D2_018.jpg | $"$ | $"$ |
| $17: 06$ | E. side Idaho Inlet | SEAK_J3_D2_040.jpg | $"$ | $"$ |
| $17: 12$ | head of Idaho Inlet | SEAK_J3_D2_058.jpg | $"$ | $"$ |
| $17: 25$ | Shaw Island | SEAK_J3_D2_092.jpg | $"$ | $"$ |
| $17: 31$ | east end South Inian Pass | SEAK_J3_D2_102.jpg | $"$ | $"$ |
| $17: 33$ | end of tape 3 |  |  |  |



Southeast Alaska 2004 Aerial Video Imaging Survey

Tape Number: SE_AK 2004-04
General Location: South Inian Pass, Port Althorp
Date:
Time Start:
Time Stop:
June 3, 2004

Tape Length:
Weather:
17:33:52
18:08:17
36:33
Clear, sunny, 10-15 knot westerly
navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $17: 34$ | South Inian Pass | SEAK_J3_D2_105.jpg | 17302 | 31 |
| $17: 36$ | Point Lavinia | SEAK_J3_D2_109.jpg | $"$ | $"$ |
| $17: 46$ | Port Althorp, opposite <br> Pt.Lucan | SEAK_J3_D2_126.jpg | $"$ | $"$ |
| $17: 57$ | head of Port Althorp | SEAK_J3_D2_137.jpg | $"$ | $"$ |
| $18: 03$ | Three Hill Island | SEAK_J3_D2_155.jpg | $"$ | $"$ |
| $18: 08$ | Althorp Rock ---end tape 4 | SEAK_J3_D2_164.jpg | $"$ | $"$ |



# Southeast Alaska 2004 Aerial Video Imaging Survey 

Tape Number: $\quad$ SE_AK 2004-05
General Location: Taiya Inlet, north Lynn Canal
Date:
Time Start:
Time Stop:
June 4, 2004
14:48:32
Tape Length:
Weather:
15:45:59
59:49
clear, northwesterly 15-20 knots
Electronic File: jun4_5.TRK, jun4_5.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $14: 48$ | West side Taiya Inlet | SEAK04_J4_D1_026.JPG | 17317 | 38 |
| $14: 58$ | head of Taiya Inlet | SEAK04_J4_D1_038.JPG | $"$ | $"$ |
| $15: 05$ | Skagway | SEAK04_J4_D1_052.JPG | $"$ | $"$ |
| $15: 18$ | Katzehin delta | SEAK04_J4_D1_098.JPG | $"$ | $"$ |
| $15: 44$ | opposite Eldred Rock | SEAK04_J4_D1_183.JPG | $"$ | 32 |
| $15: 46$ | end tape 5 |  |  |  |



# Southeast Alaska 2004 Aerial Video Imaging Survey 

Tape Number: $\quad$ SE_AK 2004-06
General Location: East side Lynn Canal
Date:
Time Start:
June 4, 2004
15:47:06
Time Stop:
Tape Length:
Weather:
16:47:27
1:00:00
clear,northwesterly 20knots
Electronic File: jun4_6.TRK, jun4_6.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $15: 47$ | East side Lynn Canal | SEAK04_J4_D1_191.JPG | 17316 | 32 |
| $15: 52$ | Point Sherman | SEAK04_J4_D1_212.JPG | $"$ | $"$ |
| $16: 10$ | Point St. Mary | SEAK04_J4_D1_265.JPG | $"$ | $"$ |
| $16: 16$ | Slate Creek | SEAK04_J4_D2_030.JPG | $"$ | $"$ |
| $16: 28$ | Berners Bay | SEAK04_J4_D2_064.JPG | $"$ | $"$ |
| $16: 43$ | Echo Cove | SEAK04_J4_D2_169.JPG | $"$ | $"$ |
| $16: 47$ | end tape 6 | SEAK04_J4_D2_196.JPG |  |  |



# Southeast Alaska 2004 Aerial Video Imaging Survey 

Tape Number: $\quad$ SE_AK 2004-07
General Location: Echo Cove, Point Bridget to Lena Cove
Date:
Time Start:
Time Stop:
June 4, 2004
16:48:40
Tape Length:
Weather:
18:30:40
59:58
clear to high overcast
jun4_7.TRK, jun4_7.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $16: 50$ | Cowee Creek | SEAK04_J4_D2_210.JPG | 17316 | 32 |
| $16: 54$ | Mab Island | SEAK04_J4_D2_263.JPG | $"$ | $"$ |
| $17: 01$ | break for refuel |  |  |  |
| $17: 47$ | Bridget Cove | SEAK04_J4_D2_251.JPG | $"$ | $"$ |
| $17: 55$ | Benjamin Island | SEAK04_J4_D3_001.JPG | $"$ | $"$ |
| $18: 17$ | Amalga Harbour | SEAK04_J4_D3_057.JPG | $"$ | $"$ |
| $18: 26$ | Lena Cove | SEAK04_J4_D3_115.JPG | $"$ | $"$ |
| $18: 31$ | end tape 7 | SEAK04_J4_D3_123.JPG | $"$ | $"$ |



# Southeast Alaska 2004 Aerial Video Imaging Survey 

Tape Number: $\quad$ SE_AK 2004-08
General Location: Auke Bay, Mendenhall delta
Date:
Time Start:
Time Stop:
Tape Length:
Weather:
Electronic File:
June 4, 2004
18:31:32
18:49:26
20:11
high overcast
jun5_8.TRK, jun5_8.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :---: | :--- | :--- | :---: | :---: |
| $18: 31$ | Lena Cove | SEAK04_J4_D3_125.JPG | 17316 | 32 |
| $18: 35$ | Pt Louisa | SEAK04_J4_D3_143.JPG | $"$ | $"$ |
| $18: 43$ | Fritz Cove | SEAK04_J4_D4_049.JPG | $"$ | $"$ |
| $18: 45$ | Mendenhall delta | SEAK04_J4_D4_060.JPG | $"$ | $"$ |
| $18: 48$ | end tape 8 | SEAK04_J4_D4_075.JPG | $"$ | $"$ |



# Southeast Alaska 2004 Aerial Video Imaging Survey 

Tape Number: $\quad$ SE_AK 2004-09
General Location: False Bay, Chatham \& Icy Straits
Date:
Time Start:
Time Stop:
Tape Length:
Weather:
June 5, 2004
15:24:43 imagery time not synched, 27 seconds behind GPS
16:20:21
55:38
Overcast, light rain, winds light to moderate
jun5_9.TRK, jun5_9.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :---: | :--- | :--- | :---: | :---: |
| $15: 25$ | False Bay | SEAK04_J5_D1_011.JPG | 17300 | 27 |
| $15: 35$ | Point Augusta | SEAK04_J5_D1_034.JPG | $"$ | 32 |
| $16: 05$ | Neck Point | SEAK04_J5_D1_138.JPG | $"$ | $"$ |
| $16: 10$ | Cannery Point | SEAK04_J5_D1_162.JPG | 17302 | $"$ |
| $16: 20$ | end tape 9 | SEAK04_J5_D1_199.JPG | $"$ | $"$ |



## Southeast Alaska 2004 Aerial Video Imaging Survey

Tape Number: $\quad$ SE_AK 2004-10
General Location: Port Frederick,
Date:
Time Start:
Time Stop:
Tape Length: June 5, 2004
16:21:43 imagery time not synched, 27 seconds behind GPS
16:42:17
20:34
Weather:
Electronic File: jun5_10.TRK, jun5_10.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :---: | :--- | :--- | :--- | :---: |
| $16: 25$ | north of Burnt Point | SEAK04_J5_D1_275.JPG | 17302 | 32 |
| $16: 39$ | the Narrows, Port Frederick | SEAK04_J5_D1_310.JPG |  |  |
| $16: 42$ | Midway Island; tape end | SEAK04_J5_D1_316.JPG | $"$ | 26 |



# Southeast Alaska 2004 Aerial Video Imaging Survey 

Tape Number: $\quad$ SE_AK 2004-11
General Location: Mendenhall Delta, Douglas Island, Gastineau Channel
Date:
Time Start:
Time Stop:
June 5, 2004
17:24:37
Tape Length:
18:21:13

Weather:
Electronic File: jun5_11.TRK, jun5_11.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $17: 25$ | Mendenhall delta | SEAK04_J5_D2_001.JPG | 17315 | 33 |
| $17: 30$ | Outer Point, Douglas Island | SEAK04_J5_D2_030.JPG | $"$ | $"$ |
| $17: 40$ | Point Hilda | SEAK04_J5_D2_066.JPG |  |  |
| $17: 50$ | Tantallon Point | SEAK04_J5_D2_132.JPG | $"$ | $"$ |
| $18: 15$ | Thane | SEAK04_J5_D2_295.JPG | $"$ | $"$ |
| $18: 20$ | Pt. Salisbury---end tape 11 | SEAK04_J5_D2_330.JPG |  | $"$ |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-12
General Location: Gastineau Channel, Portland Island
Date:
June 5, 2004
18:22:17 lost 14 minutes on recorder, ok on camera
Time Start:
19:17:33
Tape Length:
00:00
Weather:
Electronic File: jun5_12.TRK, jun5_12.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :---: | :--- | :--- | :---: | :---: |
| $18: 20$ | Gastineau Channel | SEAK04_J5_D3_001.JPG | 17315 | 33 |
| $18: 27$ | Bishop Point | SEAK04_J5_D3_024.JPG | $"$ | $"$ |
|  | break,transit |  | $"$ | $"$ |
| $18: 47$ | Spuhn Island | SEAK04_J5_D3_061.JPG | $"$ | $32 / 33$ |
| $19: 17$ | Juneau Airport/Mendenhall Delta | SEAK04_J5_D3_160.JPG |  |  |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-13
General Location: Kruzof Island
Date:
June 6, 2004
Time Start:
Time Stop:
15:46:06
16:43:56
Tape Length:
Weather:
Electronic File:
1:00:36
High overcast, occasional light rain, clearing
6jun_13.TRK, 6jun_13.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :---: | :--- | :--- | :---: | :---: |
| $15: 46$ | Cape Edgecumbe | SEAK04_J6_D1_001.JPG | 17325 | 26 |
| $15: 54$ | St. Lazaria Island | SEAK04_J6_D1_040.JPG | $"$ | $"$ |
| $16: 11$ | Inner Point | SEAK04_J6_D1_123.JPG | 17324 | 27 |
| $16: 30$ | Sukoi Inlet | SEAK04_J6_D1_220.JPG | $"$ | 26 |
| $16: 44$ | Sukoi Point---end tape 13 | SEAK04_J6_D1_248.JPG | $"$ | $"$ |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-14
General Location: North end Kruzof Is. Partofshikof Is., St John Baptist Bay
Date:
June 6, 2004
Time Start:
16:44:55
Time Stop:
Tape Length:
Weather:
Electronic File:

57:37
Clearing, Light northwesterly
6jun_14.TRK, 6jun_14.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Gazette <br> Chart |  |
| :---: | :--- | :--- | :---: | :---: |
| $16: 45$ | Sukoi Point | SEAK04_J6_D1_254.JPG | 17323 | 26 |
| $17: 05$ | Kalinin Point | SEAK04_J6_D1_311.JPG | $"$ | $"$ |
| $17: 10$ | Cape Georgiana | SEAK04_J6_D1_326.JPG | $"$ | $"$ |
| $17: 13$ | Hayward Point | SEAK04_J6_D1_328.JPG | 17324 | $"$ |
| $17: 26$ | Partof Point | SEAK04_J6_D2_025.JPG | $"$ | 27 |
| $17: 34$ | Gilmer Cove | SEAK04_J6_D2_050.JPG | $"$ | 26 |
| $17: 45$ | Head of St. John Baptist <br> Bay | SEAK04_J6_D2_087.JPG | $"$ | 27 |
|  | end tape 14 | SEAK04_J6_D2_087.JPG |  |  |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-15
General Location: St. John Baptist Bay, Neva Strait, Slocum Arm
Date:
June 6, 2004
Time Start:
17:46:42
Time Stop:
19:44:10
Tape Length:
Weather:
55:40

Electronic File:

Clearing, patchy cloud
6jun_15.TRK, 6jun_15.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :---: | :--- | :--- | :---: | :---: |
| $17: 46$ | Head St. John Baptist Bay | SEAK04_J6_D2_087.JPG | 17324 | 27 |
| $17: 52$ | Entrance Island | SEAK04_J6_D2_116.JPG | $"$ | 26 |
| $17: 58$ | Neva Point | SEAK04_J6_D2_130.JPG | $"$ | 27 |
|  | break for refuel Sitka |  | $"$ |  |
| $18: 52$ | Head Slocum Arm | SEAK04_J6_D2_133.JPG | 17323 | 26 |
| $19: 12$ | Head Slocum Arm | SEAK04_J6_D2_206.JPG | $"$ | $"$ |
|  | transit to Peril strait |  |  |  |
| $19: 24$ | Point Marie | SEAK04_J6_D2_212.JPG | $"$ | 27 |
| $19: 35$ | Ushk Point | SEAK04_J6_D2_256.JPG | $"$ | 26 |
| $19: 46$ | Fick Cove --- end of tape 15 | SEAK04_J6_D2_285.JPG | $"$ | $"$ |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-16
General Location: South Arm Hoonah Sound
Date:
Time Start:
Time Stop:
June 6, 2004
19:45:29
20:18:24
Tape Length:
34:58
Weather:
Electronic File:
Clear
6jun_16.TRK, 6jun_16.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :---: | :--- | :--- | :---: | :---: |
| $19: 47$ | Fick Cove | SEAK04_J6_D2_285.JPG | 17323 | 26 |
| $19: 56$ | Head Patterson Bay | SEAK04_J6_D2_318.JPG | $"$ | $"$ |
| $20: 10$ | Head Douglas Bay | SEAK04_J6_D3_025.JPG | $"$ | $"$ |
| $20: 18$ | White Cliff Point | SEAK04_J6_D2_055.JPG | $"$ | $"$ |
|  | end of tape 16 |  |  |  |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-17
General Location: Nakwasina Sound, Nakwasina Passage, Katlian Bay
Date:
June 7, 2004
Time Start:
17:01:54
Time Stop:
Tape Length:
Weather:
Electronic File:

55:35
Fog, clearing from north
7jun_17.TRK, 7jun_17.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :---: | :--- | :--- | :---: | :---: |
| $17: 01$ | Krugloi Point | SEAK04_J7_D1_065.JPG | 17324 | 27 |
| $17: 10$ | Allen Point | SEAK04_J7_D1_028.JPG | $"$ |  |
| $17: 21$ | Neva Point | SEAK04_J7_D1_106.JPG | $"$ |  |
| $17: 31$ | Nakwasina Passage/River | SEAK04_J7_D1_168.JPG | $"$ |  |
| $17: 50$ | Lisianski Point | SEAK04_J7_D1_212.JPG | $"$ | $"$ |
| $17: 55$ | Cedar Cove | SEAK04_J7_D1_233.JPG | $"$ | $"$ |
| $17: 58$ |  | SEAK04_J7_D1_242.JPG |  |  |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-18
General Location: Katlian Bay, Sitka, Islands in Middle Channel
Date:
Time Start:
June 7, 2004
Time Stop:
17:59:01
Tape Length:
18:55:39
54:08
Weather:
Sunny, v. light winds
Electronic File: 7jun_18.TRK, 7jun_18.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $17: 59$ | Katlian Bay, east point of <br> island | SEAK04_J7_D1_245.JPG | 17324 | 27 |
| $18: 03$ | Katlian River | SEAK04_J7_D1_279.JPG | $"$ | $"$ |
| $18: 19$ | Halibut Point | SEAK04_J7_2_001.JPG | $"$ | $"$ |
| $18: 23$ | Sitka waterfront | SEAK04_J7_D2_015.JPG | 17323 | $"$ |
| $18: 30$ | Group of islands off Sitka <br> Airport | SEAK04_J7_D2_043.JPG | $"$ | $"$ |
| $18: 40$ | Harris Island | SEAK04_J7_D2_124.JPG | $"$ | $"$ |
| $18: 50$ | Islands at Sitka | SEAK04_J7_D2_168.JPG | $"$ | $"$ |
| $18: 57$ | Bamdoroshni Island; end tape | SEAK04_J7_D3_010.JPG | $"$ | $"$ |
|  |  |  |  |  |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-19
General Location: Sitka, Aleutkina Bay,

Date:
Time Start:
Time Stop:
Tape Length:
Weather:
Electronic File:

June 7, 2004
18:55:39
20:16:39

Sunny, v. light winds
7jun_19.TRK, 7jun_19.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :---: | :---: |
| $18: 57$ | Whale Island | SEAK04_J7_D3_020.JPG | 17323 | 27 |
| $19: 11$ | Kutchuma Islands | SEAK04_J7_D3_055.JPG | $"$ | $"$ |
|  | Break for fuel |  | $"$ |  |
| $19: 47$ | Head of No Thorofare Bay | SEAK04_J7_D4_003.JPG | $"$ |  |
| $19: 56$ | Head of Camp Coogan bay | SEAK04_J7_D4_061.JPG |  |  |
| $20: 07$ | S. entrance to Leesoffskaia <br> Bay | SEAK04_J7_D4_107.JPG |  |  |
| $20: 17$ | Samsing Cove ---end tape 19 | SEAK04_J7_D4_148.JPG |  |  |



Southeast Alaska 2004 Aerial Video Imaging Survey
Tape Number: $\quad$ SE_AK 2004-20
General Location: Samsing Cove to Road Island, Islands off Redoubt Bay
Date:
Time Start:
Time Stop:
Tape Length:
Weather: June 7, 2004

Electronic File: 7jun_20.TRK, 7jun_20.txt, navdatav2.mdb

| $\begin{gathered} \text { Time } \\ \text { (UTC) } \end{gathered}$ | Location | Film <br> Frame | Chart | Gazette Page |
| :---: | :---: | :---: | :---: | :---: |
| 20:18 | Samsing Cove | SEAK04_J7_D4_158.JPG | 17323 | 22 |
| 20:25 | Cape Burunof | SEAK04_J7_D4_210.JPG | " | " |
| 20:39 | Povorotni Point | SEAK04_J7_D4_272.JPG | " | " |
| 20:46 | Korga Island | SEAK04_J7_D4_299.JPG | " | " |
| 21:01 | Kita Island | SEAK04_J7_D5_044.JPG | " | " |
| 21:08 | Peisar Island | SEAK04_J7_D5_060.JPG | " | " |
| 21:19 | Kanga Island ---end tape 20 | SEAK04_J7_D5_081.JPG | " | " |



## Southeast Alaska 2004 Aerial Video Imaging Survey

Tape Number: $\quad$ SE_AK 2004-21
General Location: Islands off Redoubt Bay
Date:
June 7, 2004
Time Start:
21:12:50
Time Stop:
21:26:44
Tape Length:
Weather:
Electronic File:
jun7_21.TRK, jun7_21.txt, navdatav2.mdb

| Time <br> (UTC) | Location | Film <br> Frame | Chart | Gazette <br> Page |
| :--- | :--- | :--- | :--- | :---: |
| $21: 19$ | Kanga Island | SEAK04_J7_D5_082.JPG | 17323 | 22 |
| $21: 22$ | Fankuda Island | SEAK04_J7_D5_122.JPG | $"$ | $"$ |
| $21: 27$ | Korga Island ---end <br> tape 21 | SEAK04_J7_D5_144.JPG | $"$ |  |

