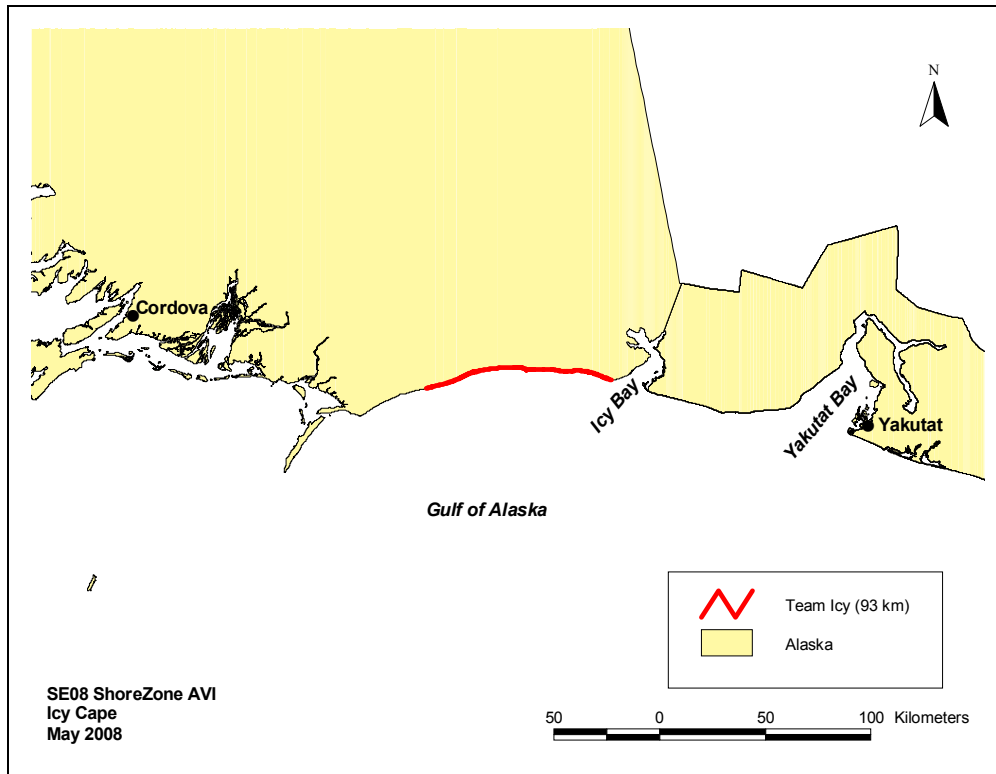


FLIGHT REPORT
ShoreZone Aerial Video Imaging (AVI) Survey
Icy Cape: Team Icy
May 11, 2008



Prepared for
NOAA National Marine Fisheries Service
by



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ShoreZone is a coastal habitat mapping and classification system in which georeferenced aerial imagery is collected specifically for the interpretation and integration of geological and biological features of the intertidal zone and nearshore environment. Oblique low-altitude aerial video and digital still imagery of the coastal zone is collected during summer low tides (zero tide level or lower), usually from a helicopter flying at <100 m altitude. The flight trackline is recorded at 1-second intervals using Fugawi electronic navigation software and is continuously monitored in-flight to ensure all shorelines have been imaged. Video and still imagery collected are georeferenced and time-synchronized. Video imagery is accompanied by continuous, simultaneous commentary by a geologist and a biologist aboard the aircraft. The imagery and commentary are later used in the definition of discrete along-shore coastal habitat units and the “mapping” of observed physical, geomorphic, sedimentary, and biological features in those units. For more information on the ShoreZone program, please visit Coastal and Ocean Resources, Inc. web site at <http://www.coastalandoceans.com>.

The purpose of this flight report is to summarize the field activities of the ShoreZone aerial video imaging (AVI) survey conducted near **Icy Cape** during the low-tide of **May 11, 2008**. The survey was conducted by Coastal & Ocean Resources Inc. (CORI, Sidney, British Columbia) under contract with NOAA National Marine Fisheries Service (NMFS). A coastal ecologist from Archipelago Marine Research Ltd. (AMR, Victoria, British Columbia) was sub-contracted by CORI to provide biological expertise. Table 1 provides a summary of crew affiliations and responsibilities.

The length of shoreline imaged during the survey and delivered with this report is **93 km**. One mini DV master tapes was collected during the survey and recorded to DVD. The table and figures on the following pages summarize the extent and location of the AVI data and imagery collected. The aircraft used in this survey was a Cessna 206 fixed-wing aircraft chartered from Alsek Air in Yakutat, Alaska. Imagery collected from the aircraft is flown looking onshore out of the right side of the aircraft. Maps for the tape are annotated with representative geographic names, trackline times (in hh:mm:ss UTC in 24-hour clock time), and photo numbers. The six-digit UTC time is imprinted on the video imagery that is provided on DVD with this report.

Representative digital still photos of the survey are provided in the last section of this report. All photos are supplied on DVD, organized by tape number, consistent with the image library. More than 300 photos were collected during this survey.

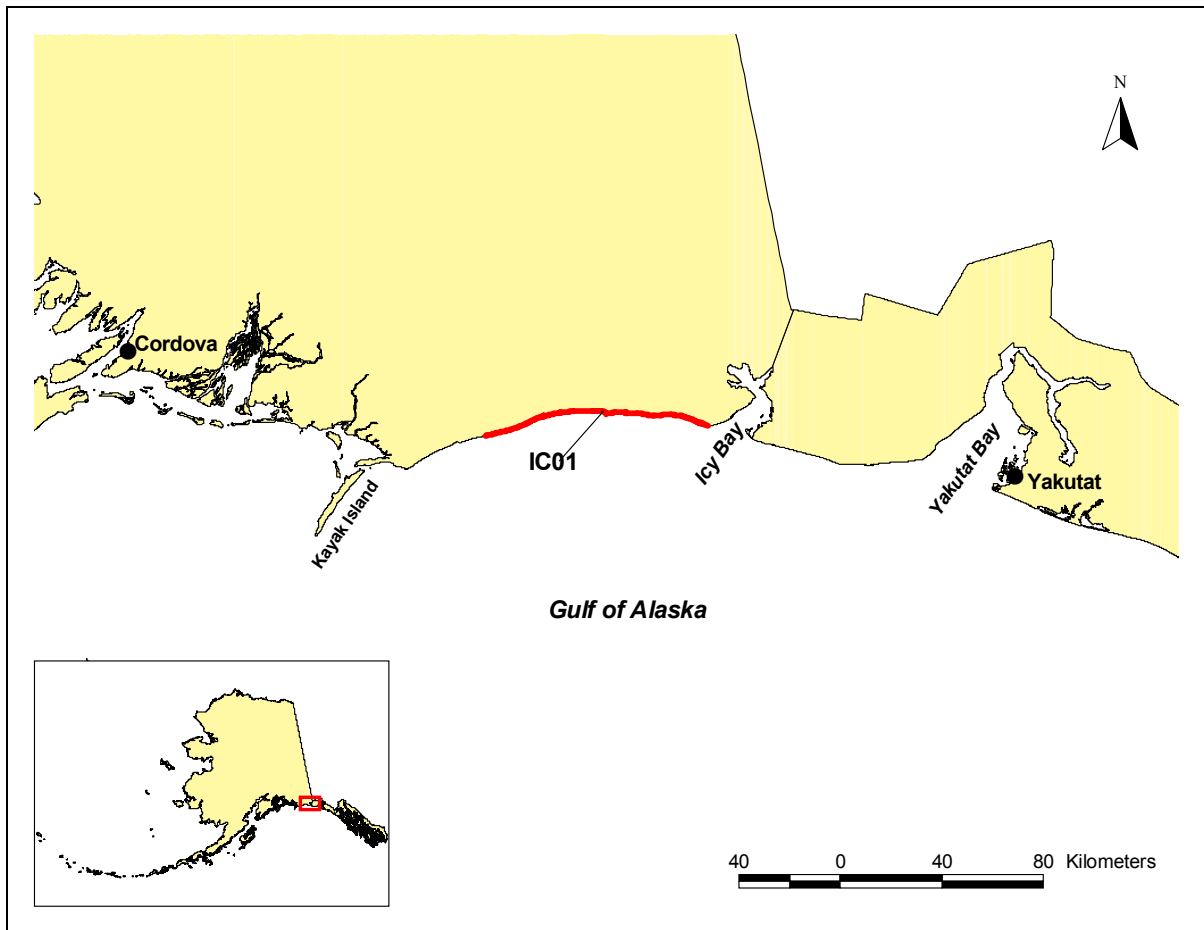
The shapefiles and GIS data that accompany this report on DVD illustrate the flight trackline positions at 1-second intervals (displayed by tape number), as well as the digitized shoreline segments flown. Data and imagery are linked by a date time code (yyyymmddhhmmss). When processing is complete, all imagery will be posted online at the NOAA ShoreZone web site (<http://www.fakr.noaa.gov/maps/szintro.htm>).

Table 1. ShoreZone AVI Flight Personnel and Responsibilities: Team Icy (IC).

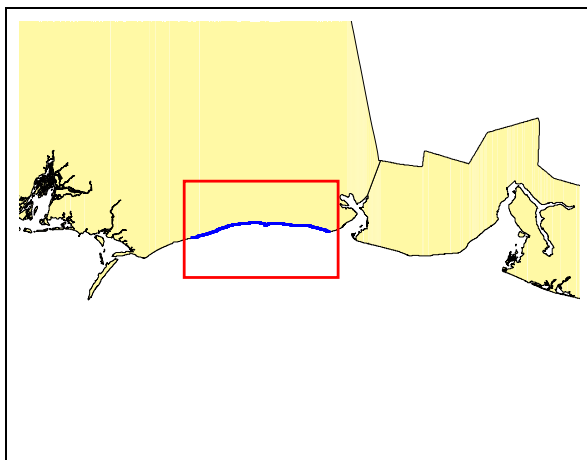
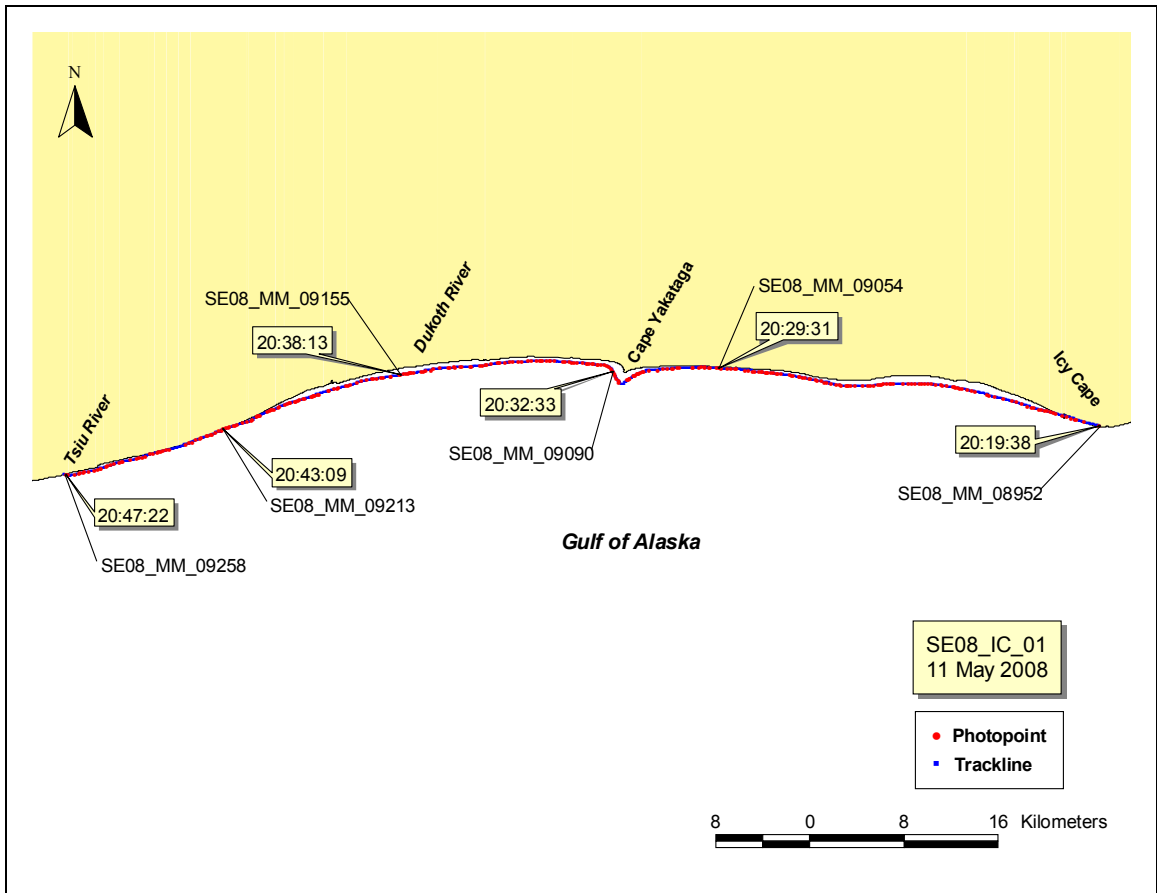
Crew Member	Individual / Affiliation	Responsibilities
<i>Geomorphologist</i>	Kalen Morrow CORI, Sidney BC	survey coordination, videography, geologic commentary, post-flight data processing, project reporting
<i>Coastal Ecologist</i>	Mary Morris AMR, Victoria BC	digital photography, biologic commentary
<i>Navigator</i>	Sean Daley CORI, Sidney BC	in-flight navigation, post-flight data processing
<i>Pilot</i>	Jody Peterson Alsek Air Yakutat, Alaska	Cessna 206 piloting

**ShoreZone Aerial Video Imaging (AVI) Survey
Icy Cape, Alaska
May 11, 2008**

**Team Icy (IC)
Survey Map and Tape Log
DVD: SE08_IC01**



Flight trackline map showing the location and extent of the videotape (DVD) for the May 11, 2008 Team Icy survey near Icy Cape.



**2008 Southeast Alaska Aerial Video Imaging Survey
Team Icy (IC)**

Tape: SE08_IC_01 **Date:** 11 May 08

General Location: Icy Cape, Cape Yakataga, Tsiu River

Time Start (UTC): 20:19:38 **Geo:** Morrow
Fuel Break: None **Bio:** Morris
Time End (UTC): 20:47:26 **Nav:** Daley
Tape Length: 00:27:48

Weather: Overcast

Time (UTC)	Location	Photo
20:19:38	Icy Cape	SE08_MM_08952
20:29:31	East of Cape Yakataga	SE08_MM_09054
20:32:33	Cape Yakataga	SE08_MM_09090
20:38:13	Dukoth River	SE08_MM_09155
20:43:09	East of Tsiu River	SE08_MM_09213
20:47:22	Tsiu River	SE08_MM_09258

Fixed-wing survey, Icy Cape to Tsiu River (west of Cape Yakataga)

Wide sand beaches characterized the section of coast between Icy Cape and the Tsiu River. The only section of bedrock was observed at Cape Yakataga. Backshore dunes, when present, were vegetated with dune grass. Most of the high water line was characterized by cut banks and freshly moved driftwood. Blowing sand and active dunes were common observations, particularly in the westward end of the section.



Whale carcass, east of Cape Yakataga
SE08_MM_09054.jpg



Fringing forest, east of Cape Yakataga, with recent logging in backshore
SE08_MM_09068.jpg



Blue Mussel bioband on bedrock platform, Cape Yakataga
SE08_MM_09081.jpg



Former radio facility, Cape Yakataga
SE08_MM_09090.jpg



Shore-parallel outflow of Duktoth River
SE08_MM_09113.jpg



Wreck of log carrying barge, Dukoth River mouth
SE08_MM_09155.jpg



Sand dunes burying camp buildings, west of
Kaliakh River mouth, west of Cape Yakataga
SE08_MM_09201.jpg



Blowing sand, east of the Tsiu River mouth
SE08_MM_09213.jpg