

Alaganik Angler Access Signs Cordova Ranger District Chugach National Forest USDA Forest Service, Alaska Region for Fiscal Year 2003

<u>Objective/Purpose of Project:</u> The purpose of this project was to provide interpretation of natural cycles on the Copper River Delta that affect fish and fish resources along the newly installed Alaganik Slough Angler Access Trail.

Methods or Techniques Used: A fish crew member wrote most of the text for the signs with assistance from the district I&E staff. The artwork was created by a talented wildlife biologist on the district. Many district folks reviewed and edited the signs.

<u>Realized/Expected results:</u> Five signs were created. Topics covered include Pacific salmon life cycles, tide cycles, beaver pond cycles, human use cycles and an introduction to cycles effecting the Copper River Delta (like earthquake uplifts, glaciers, etc).

Contact Person and telephone number: Samantha Greenwood (907)424-4740 or Deyna Kuntzsch (907)424-4737

Links to sites:

Project Data:

	Category	# New Sites	# Sites Restore Enhance	# Presentations	Under 18 Attendance	Over 18 Attendance		(a) P&M Program Mgmt. Plan \$ \$	(b) P&M Overhead \$\$	(c) NFWL \$\$	(d) NFAF \$\$	(e) NFIF \$\$	(f) NFTE \$\$	Other Res. \$	Total FS \$\$ (a)+(b)+(c) +(d)+(e)+(f)
То	tals	0	0	0	0	0	5	0	0	0	22,000	0	0	0	22,000
Fis	sh Watch	0	0	0	0	0	5	0	0	0	22,000	0	0	0	22,000

Photographs

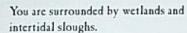
On The Copper River Delta Cycles Are Everywhere

The grand show is evernal. It is always sunrise somewhere,

she dese is never dried at once; a shower is forever falling.

super is over rising

John Muir



The Copper River Delta is a very unique and special place. You are standing in a place of constant change and renewal. The dynamic forces of nature are constantly sculpting the landscape. Glaciers, earthquakes, tides, rivers, and living creatures that call this place home are all interconnected and influence how this area changes and evolves.

The Alaganik Slough Trail will provide you with a firsthand view of the cycles that are occurring on the Delta every day. Interpretive signs will guide you as you explore the many cycles that influence the Copper River Delta.



Be a Responsible User

Stay on the Trail

The wetlands are sensitive. You can destroy vegetation if you leave the trail.

Be Quiet

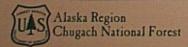
You will have a better chance of seeing wildlife if you walk quietly and slowly along the trail.

Don't Litter!

Wildlife can be harmed by discarded plastic and other garbage.

Recycle Your Fishing Line

Do your part to protect the wildlife and environment. Place used fishing line in the box at the trailhead.



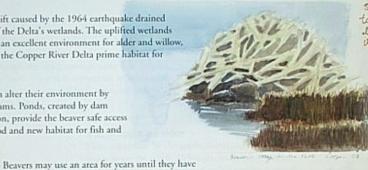
Beavers Build New Habitat



The uplift caused by the 1964 earthquake drained some of the Delta's wetlands. The uplifted wetlands provide an excellent environment for alder and willow, making the Copper River Delta prime habitat for beavers.

> exhausted their food supply. Even though the beavers have moved on, the ponds they created can continue to provide habitat for many years.

Beavers can alter their environment by building dams. Ponds, created by dam construction, provide the beaver safe access to their food and new habitat for fish and wildlife.



Dams will eventually break, draining the ponds and allowing the alder and willow to grow back until the beavers return.

.....and the cycle begins again



Alaska Region Chugach National Forest

Alaganik Slough Trail

Are You Part Of The Cycle?

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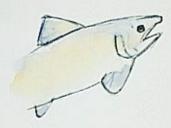
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People play a role in the natural cycles that occur on the Copper River Delta by enjoying its vast resources. As this area has grown in popularity, it has been challenging to provide a balance between human access and wetlands protection.

The Alaganik Slough Trail strikes this balance. The trail is partially constructed out of Geoblock®, a recycled plastic. The Geoblock® provides a stable footpath, allows light to penetrate, and encourages plants to grow and flourish.







you touch the last that has gone before

and the first of what is still to come.

Leonardo Da Vin





Opportunities for anglers

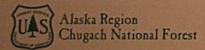
The fish using Alaganik Slough to migrate to their natal streams entice many anglers to test their skills. If you release your fish, use the proper techniques to improve their chances of survival.

Tips to release fish unharmed include:

- . K eep the fish in the water
- · K eep fingers away from gills and eyes
- U se barbless hooks
- · Don't use bait
- Support the fish facing the current until it swims away

Recycle when you re-spool

- Drop unwanted line in recycle box at the star t of the trail
- O ld line is recycled into new fishing reel handles, knife handles and pr opellers



Alaganik Slough Trail

Where Are The Salmon Going?





On the Copper River Delta one has a unique opportunity to view the intricate life cycles of the Pacific salmon. Salmon are anadromous fish, which means they live their adult lives in the ocean and return to freshwater to spawn.

Adult salmon migrate back to their natal streams to spawn. With her tail, the female salmon digs a nest in the gravel called a redd. She deposits eggs in the redd and the male fertilizes the eggs. The eggs develop throughout the winter and hatch into alevins. As the alevins absorb the egg yolks they become fry and swim up through the gravel to begin their lives in the stream. After spending up to three years in freshwater, the fry go through physical changes and become smolts. Then the smolts migrate to the ocean to mature into adults.



Five Species of Salmon Found on the Delta

King salmon = Chinook Red salmon = Sockeye Silver salmon = Coho Pink salmon = Humpy Chum salmon = Dog







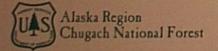




Even in death salmon provide life...

Although the salmon die after spawning, their carcasses continue to play an important role in the ecosystem. The decomposing salmon provide food for aquatic insects and other animals. The carcasses also serve as a nutrient source for the developing juvenile salmon.

....and the cycle begins again



Lbb and Flow

amount of pieces remains constant; there is never

a drop more, mover a drop loss. This is a more of circular infinity of a planet birthing inell.

between earth and earth) atmosphere, the The ocean greatly affects this special place. Tidal fluctuations supply nutrients and help carve the landscape that you see in front of you. Although the open ocean is more than 6 miles downstream from here, this area is influenced by tide cycles. Aquatic species must be tolerant of both saltwater and freshwater to survive here.





The science of tides

Tides are caused by the gravitational pull of the sun and moon upon the earth. Although the moon is smaller than the sun, the gravitational pull is much greater due to the moon's proximity to the earth. The sides of the earth that are closest to and farthest from the moon are the areas that experience high tides.

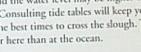




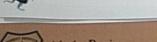


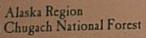
Be Careful.....

Here at Alaganik Slough, tides affect the water level. Caution must be taken when crossing sloughs as the tide informed as to the best times to cross the slough. The tide is two hours later here than at the ocean.









Alaganik Slough Trail



Figure 6: Yellow cedar frames and posts for signs