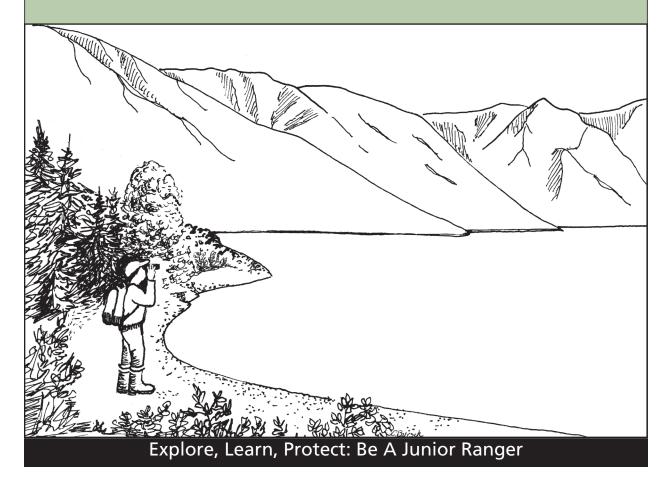
National Park Service U.S. Department of the Interior

Lake Clark National Park and Preserve



Lake Clark National Park and Preserve:

Junior Ranger Journey



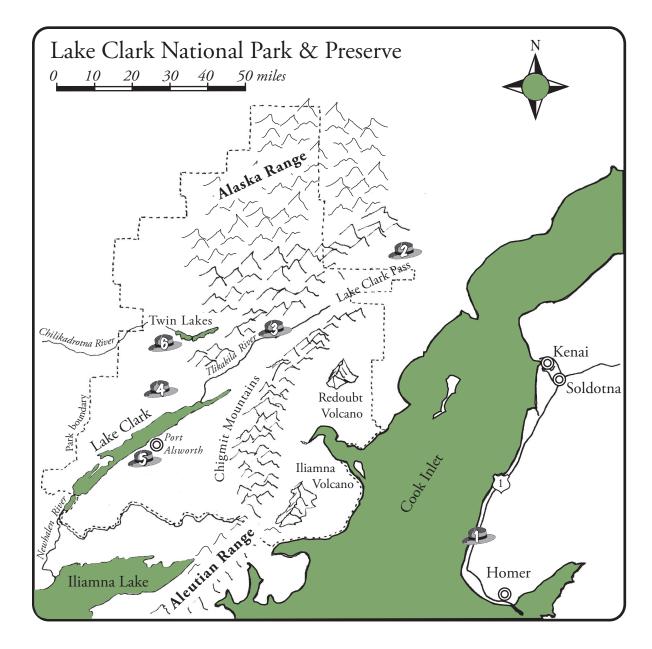
Welcome!

Lake Clark National Park and Preserve is a gathering place of mountains, glaciers, rivers, wildlife and people.

The Lake Clark area has been home to the Inland Dena'ina Athabascan people for hundreds of years. Look for Dena'ina words throughout this book. Dena'ina use different sounds for the letters in their language so don't worry if you can't pronounce Yil is the Dena'ina word for a their words. journey of one day.* Follow our day's journey by using the map on the facing page. The numbered ranger hats mark the places we'll visit. Look for a numbered ranger hat at the top of the left-hand pages to help you find each location on the map.

* Many Dena'ina words use a barred L like *yil*. The barred L makes a "thl" sound. Place your tongue on the roof of your mouth right behind your front teeth. As you start to say the "th" sound let the air blow out on both sides of tongue then add the "L". Most of the Dena'ina words used in this book are from the Inland Dena'ina dialect. Refer to the Dena'ina Topical Dictionary by Jim Kari, published by the Alaska Native Language Center in 2007 for more information on the Dena'ina language.

Map the Journey!

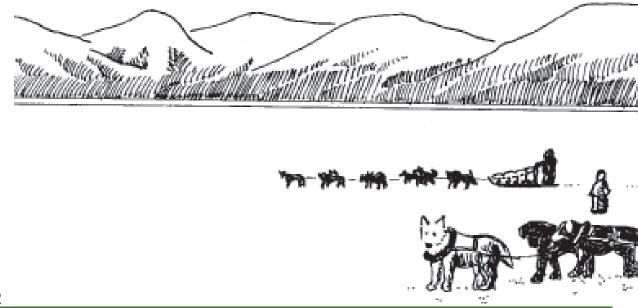


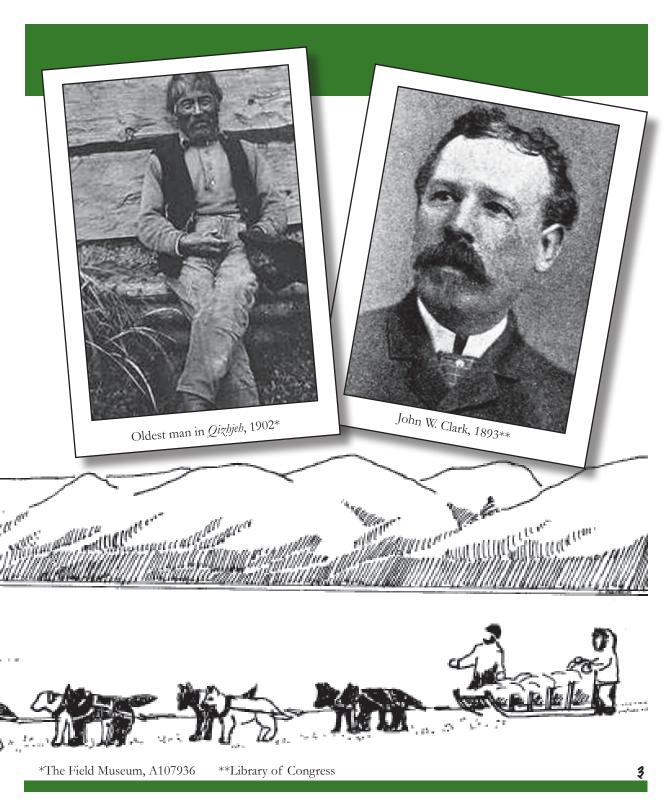
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A Lake with Two Names

Lake Clark got its present name when A.B. Schanz, a New York newspaperman, named the lake after John W. Clark, a well-respected trader in southwest Alaska. Schanz's newspaper sent him to get exciting stories about the new U.S. territory - Alaska. Schanz and Clark made a very exciting dogsled trip to the lake from Bristol Bay in the winter of 1891. Deep snow, frostbite and starving sled dogs left their group in a serious survival situation by the time they reached the lake. A Dena'ina man, out checking his traps, rescued the men and their dogs. He took them to his village, *Qizhjeh*, where they were welcomed and fed.

Qizhjeh Vena is the Dena'ina name for Lake Clark. Qizhjeh means, "people gathered." Vena means "lake." The trapper's ancestors had been gathering on the lake in Qizhjeh village (now called Kijik) for nearly 1,000 years. They had been walking across glaciers through Lake Clark Pass to trade with people in Cook Inlet for hundreds of years before they met John Clark. Many of the modern things Clark and Schanz saw in the village – store-bought clothing, teakettles, a cook stove, and furniture, came from the Dena'ina's extensive trading activities.





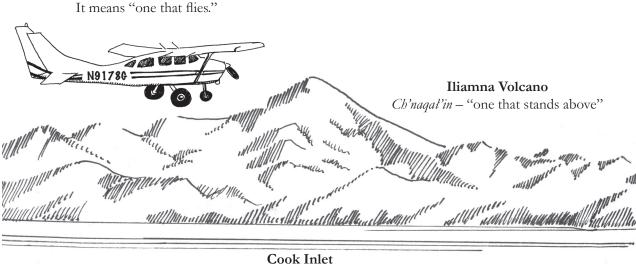
We're Going to Fly...

Nunejehi is the Dena'ina word for airplane.



Our journey begins on southcentral Alaska's Kenai Peninsula. Although you can see the park from the Sterling Highway, you can't drive to it. There are no roads to Lake Clark National Park and Preserve. Most people get to the park in an airplane. We're going to fly across Cook Inlet and through the mountains in a Cessna 180.

The view most people have of Lake Clark National Park from the Kenai Peninsula, is only the coastal part of over 4 million acres of park and preserve. The beauty of the glacier-covered volcanoes along the coast is one of the reasons Congress made this place a National Park. *Viq'idazg'eni* is the Dena'ina word for volcano. It means "one burning inside."



Cook Inlet *Tikahtnu* – "big water river"

...Across Cook Inlet!

Use the numbers below to fill in the blanks. Answers on page 24.

The park lies along the Ring of Fire, a zone of earthquakes and volcanoes circling the Pacific Ocean. Both Iliamna and Redoubt volcanoes are over ________ - feet high! The Chigmit Mountains, in between the volcanoes, are only half as high, averaging about _______feet. Redoubt Volcano erupted _______ times between December ______ and April ______. Iliamna Volcano has not erupted in recorded history, but ______ miles under the volcanoes, magma is building up pressure for a future eruption!

Redoubt Volcano Bentuggezh K'enulgheli "one that has a notched forehead" "munullaggin **Chigmit Mountains**

Mountains Gather Here



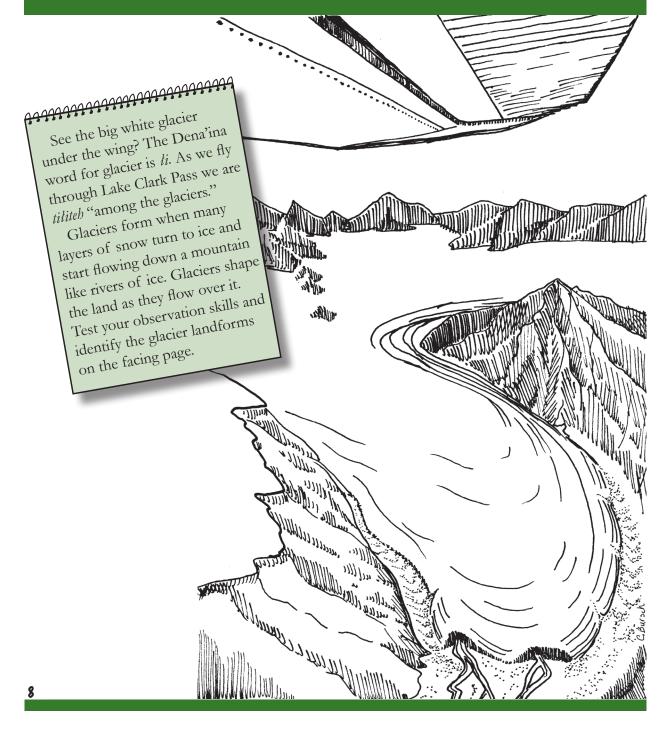
Iliamna and Redoubt volcanoes and the Chigmit Mountains are part of the Aleutian mountain range. The Aleutian Range meets the Alaska Range in Lake Clark National Park and Preserve. Both ranges form a mountain barrier that separates the park's coast from the park's interior, influencing the climate and ecosystems of the park. Dghili is the Dena'ina word for mountain. We're going to cross the mountains by flying through Lake Clark Pass. The pass formed along an earthquake fault that is still active today. Glaciers carved the pass tens of thousands of years ago. Qizhjeh Vena Tustes is the Dena'ina name for Lake Clark Pass. CFOCK



Lake Clark Pass Read the airplane's instrument panel and fill in the flight information. Time: _____ a.m. Altitude*: _____ feet Air speed: _____ mph Direction: _____ *Hint: the little hand marks 1,000's of feet and the big hand marks 100's of feet Answers on page 24.

Glaciers Gather Here





Glaciers Shape the Land

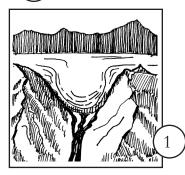
Read the name and the description of the glacier landform. Look at the pictures of glacier landforms. Match the number of the picture with its written description. *Answers on page 24.*

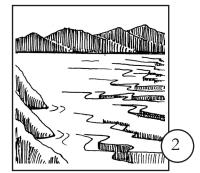
U-shaped valley - A valley carved by a glacier.

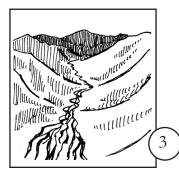
Hanging glacier - A glacier hanging off the side of a mountain.

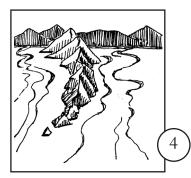
Arête - Sharp-peaked ridge of rock that has resisted the glacier.

Crevasses - Deep cracks in the surface of a glacier.





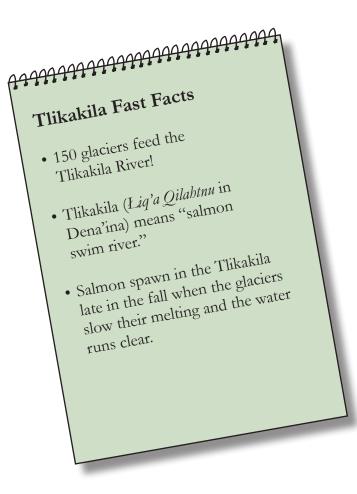




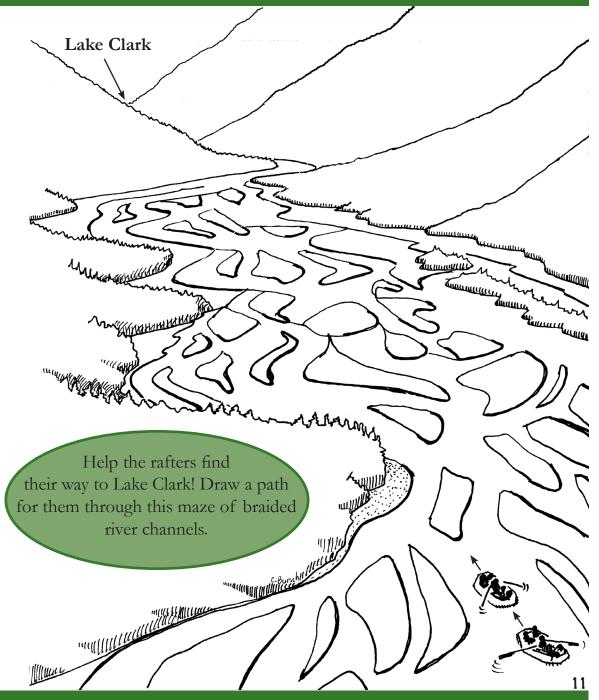
Rivers Gather Here



Glaciers melt into over 6,000 miles of rivers in Lake Clark National Park and Preserve. You can recognize a glacial river by its many braided channels of milky water. The river below us is the Tlikakila River. It begins at the summit of Lake Clark Pass and flows southwest into Lake Clark. Visitors raft the park's wild rivers for fun and adventure.

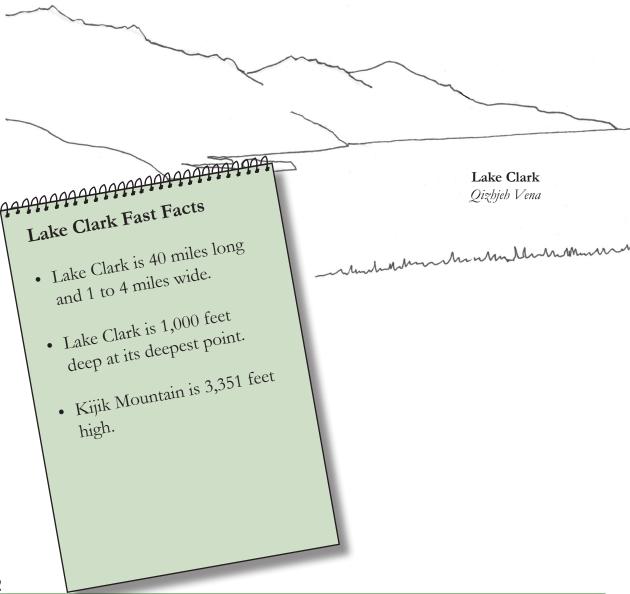


Raft A Wild River!

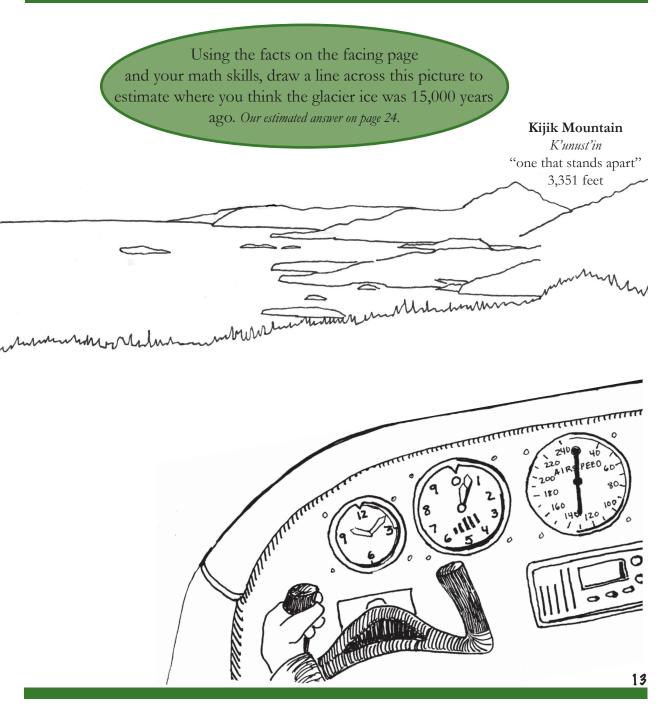


Carved by a Glacier!

As we fly out the southwest end of Lake Clark Pass we get our first view of Lake Clark / *Qizhjeh Vena*. Glaciers carved Lake Clark about 15,000 years ago. Geologists estimate the glacier ice at that time was 2,400 feet deep!



Where Was the Ice?



Salmon Gather Here

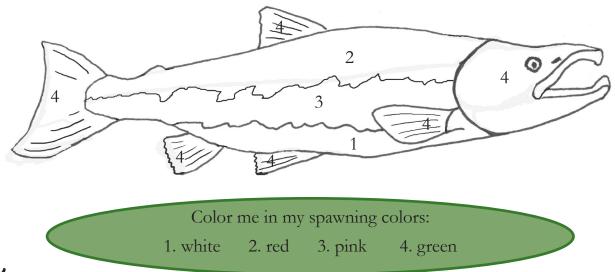
Who am I?

I was born in Lake Clark and lived there for about two years. Then I went for a long swim, down to the end of Lake Clark, down the Newhalen River into Iliamna Lake, down the Kvichak River, into Bristol Bay and out to the ocean.

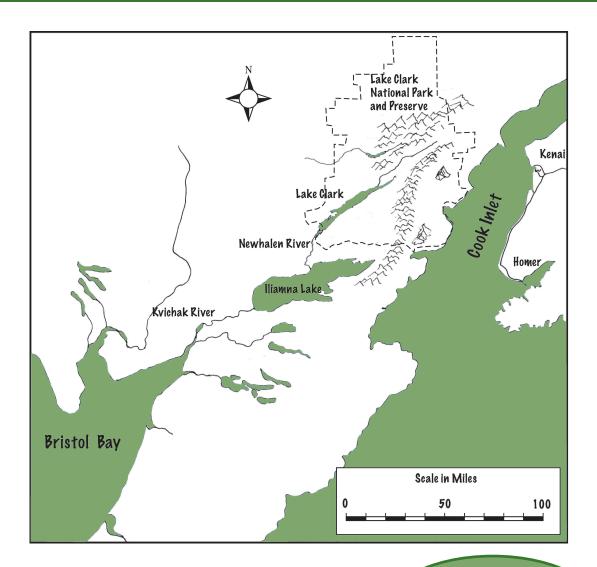
I came back to Lake Clark with hundreds of thousands of others like me after two or three years in the ocean. We came back to find mates and spawn. We die soon after spawning. Our decomposing bodies feed the plants and animals that live in and near Lake Clark.

Unscramble the letters below to learn which kind of salmon I am.

I am a EEYKOCS _____ salmon! (Hint: My name rhymes with "Popeye.") Dena'ina call me *hey liqa* or "winter salmon." *Answer on page 24*.



Trace My Journey!



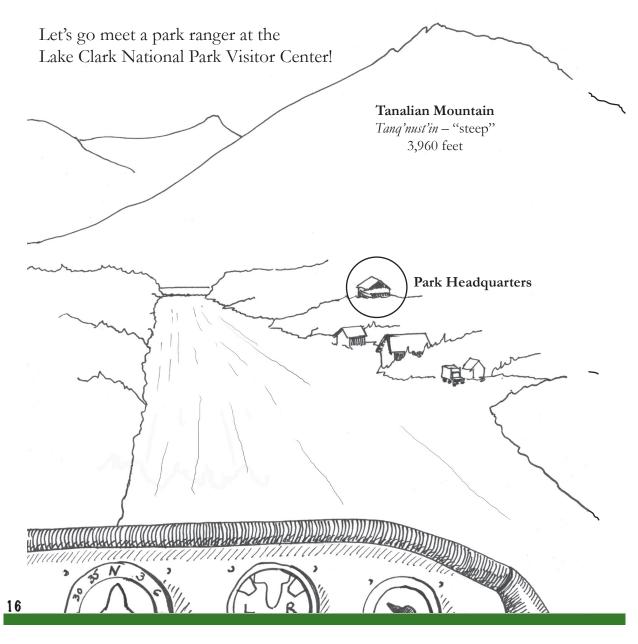
Dena'ina names for the lakes and rivers on my journey are:

Lake Clark Newhalen River Iliamna Lake Kvichak River Qizhjeh Vena Nughil Vetnu Nila Vena Nilan Q'estsiq' "people gathered lake" "current flows down stream" "islands lake" "islands outlet" Follow my life's journey by drawing a line on this map from Lake Clark, down the rivers to Bristol Bay and back again.

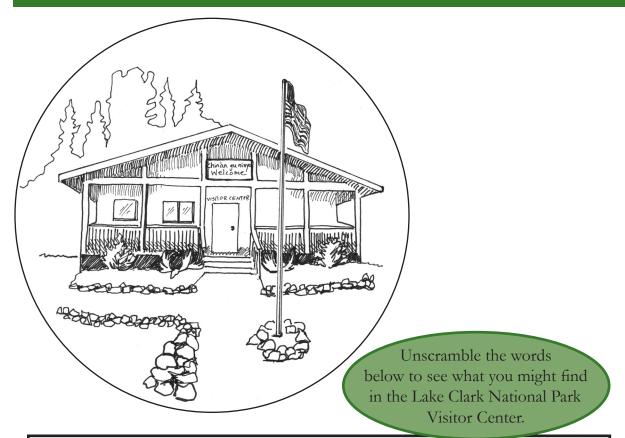
People Gather Here



We're landing on the runway at Port Alsworth, a town of about 150 people. The town is named after Babe Alsworth, a famous Alaskan bush pilot. Lake Clark National Park headquarters is in Port Alsworth.



Visitors Welcome!



At the Visitor Center, the ranger can help you learn about the park

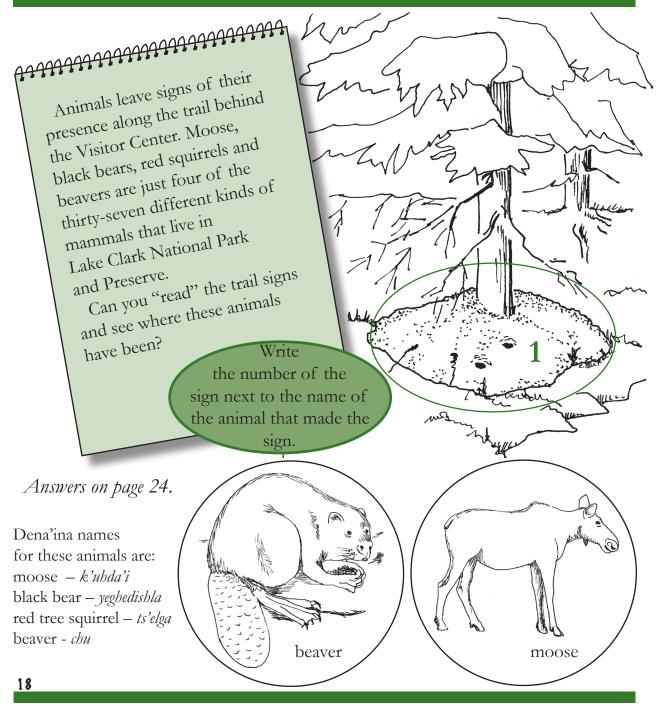
Something to read about the park's history: OKBOS _____ Something to watch that shows you the park volcanoes up close: OEDIV _____

Something to read that shows you places to go in the park: PMA _____ Some things to touch that help you learn about the park's animals: NISSK _____

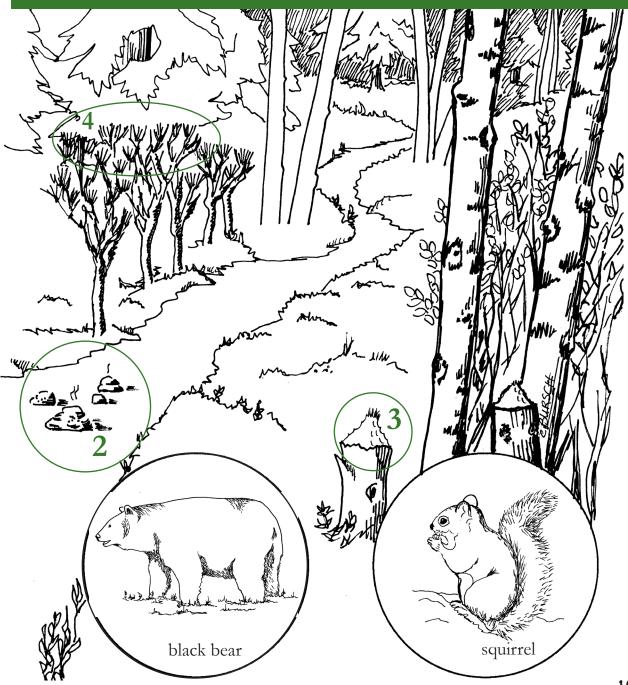
Answers on page 24.

Wildlife Gather Here



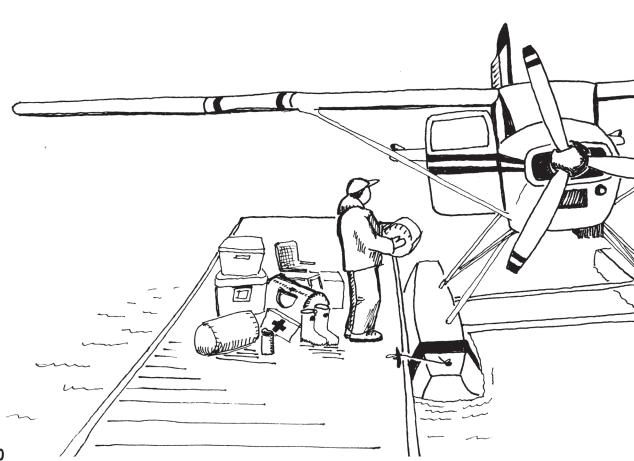


Read their Trail Signs!

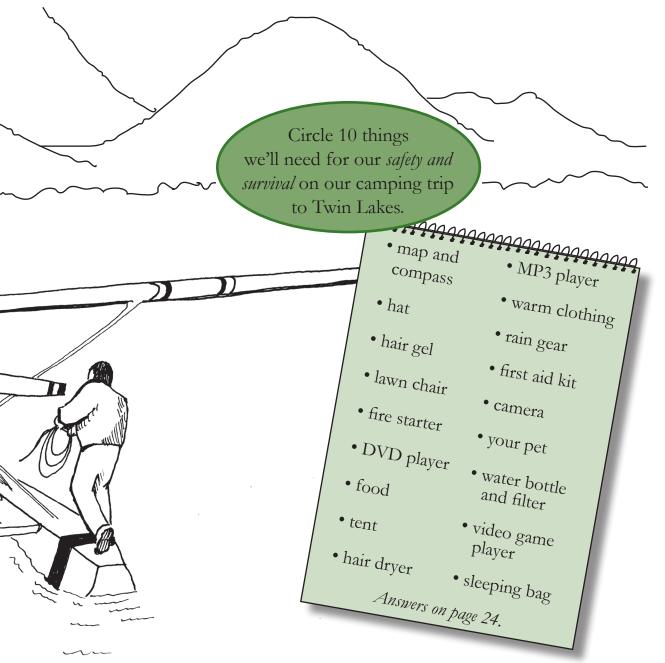


Campers Gather Here

Many people leave Port Alsworth in floatplanes, heading into Lake Clark National Park and Preserve's backcountry for a wilderness camping adventure. We're going to end our journey with a camping trip at Twin Lakes. The Dena'ina words for floatplane, *milniq nunudeli*, mean "one that lands on water." Landing a plane on water is very tricky and the pilot wants to make sure the load is balanced. We can only take things that are necessary for our safety and survival. We'll have to leave some of the things we brought behind.



Choose Well!



Stewards Gather Here

Stewards are people who take care of the land. The Dena'ina have been stewards of this land for hundreds of years. Richard (Dick) Proenneke was a steward here at Twin Lakes in the years before it became part of Lake Clark National Park. He built this cabin by hand and lived in it for thirty years. He wrote in his

journal everyday. Dick wrote about the weather, wildlife, and his thoughts about life. After thirty years, he had one hundred pounds of journals! The Proenneke cabin is now a registered National Historic Site.

Dick Proenneke's written weather and wildlife observations have become important scientific information for today's stewards – the park biologists and other park people that now care for the land and wildlife of Lake Clark National Park and Preserve.

Twin Lakes - Nilgidlen Vena - "lakes that flow into one another"

"The simplest things have given me the most pleasure." **Dick Proenneke**

111111 A.	Use this journal page
Date:	to write down your own thoughts about your journey to Lake Clark Na- tional Park and Preserve.
Weather:	
La Barrell	
	23

Answer page

Page 5: The park lies along the Ring of Fire, a zone of earthquakes and volcanoes circling the Pacific Ocean. Both Iliamna and Redoubt volcanoes are over <u>10,000</u> - feet high! The Chigmit Mountains in between the volcanoes are only half as high, averaging about <u>5,000</u> feet. Redoubt Volcano erupted <u>23</u> times between December <u>1989</u> and April <u>1990</u>. Iliamna Volcano has not erupted in recorded history, but <u>60</u> miles under the volcanoes, magma is building up pressure for a future eruption!

Page 7: Time: 9:35 a.m. Altitude: 1,300 feet Airspeed: 130 mph Direction: SW (southwest)

Page 9: 3) U-shaped valley 1) hanging glacier 4) arête 2) crevasses

Page 12 and 13: The ice line should extend across the lake from about halfway up Kijik Mountain, but remember, we're just guessing!

Page 14: SOCKEYE salmon! Protecting sockeye salmon habitat is one of the reasons Congress created Lake Clark National Park & Preserve.

Page 17: At the Visitor Center, the ranger can help you learn about the park with: Something to read about the park's history: **BOOKS** Something to read that shows you places to go in the park: **MAP** Something to watch that shows you the park volcanoes up close: **VIDEO** Some things to touch that help you learn about the park's animals: **SKINS**

Page 18-19: beaver - 3 (gnawed birch stump), moose - 4 (browsed willow branches), black bear - 2 (bear scat), squirrel - 1 ("squirrel midden" a pile of discarded spruce cone scales)

Page 21: map and compass (or a GPS and know how to use these items), hat (bring 2! one for sun, one for warmth), warm clothing (layer your clothing for changes in weather), rain gear (it can rain or snow on any day in the back country), first aid kit, fire starter, matches or lighter (for emergencies only, use a camp stove for cooking), food (check out a bear resistant food container when you're at the Visitor Center), water bottle and filter (it's always best to filter water for safety), tent (make sure it's strong with a good rain cover), sleeping bag (bring a warm one, it can be cold, even in summer)



If you want to become a Lake Clark National Park and Preserve Junior Ranger:

Try the activities in this book and/or color the pages. Take the Junior Ranger Pledge below. Sign and print your name on the Pledge. Cut out the Pledge along the lines. Mail the Pledge, along with your name and **RETURN ADDRESS** to:

> Lake Clark National Park and Preserve Junior Rangers 1 Park Place Port Alsworth, AK 99653

We'll send you a Lake Clark Junior Ranger Certificate and a badge.

Cut Here Remember to include YOUR RETURN ADDRESS on the letter.



I promise to explore, learn about, enjoy and protect the natural and cultural resources of my National Parks, my community and my Earth.

Signed:	(your name)
Address:	
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Thank you for coming on our Junior Ranger Journey to Lake Clark National Park and Preserve! Learn more about the park on our website: http://www.nps.gov/lacl

Make plans to visit the other National Park units all across America.

The National Park Service cares for special places saved by the American people so that all may experience our heritage.





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