



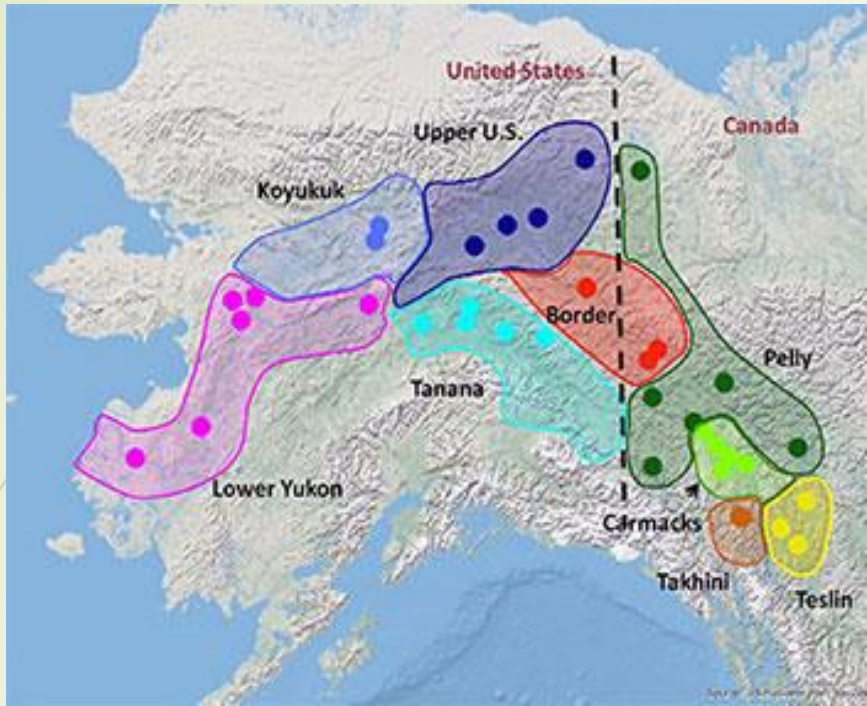
Tribal Climate Resilience in Alaska





There are 575 Federally Recognized Tribes in the United States

229 Federally Recognized Tribes in Alaska



Coastal Resources Impact on Interior Communities

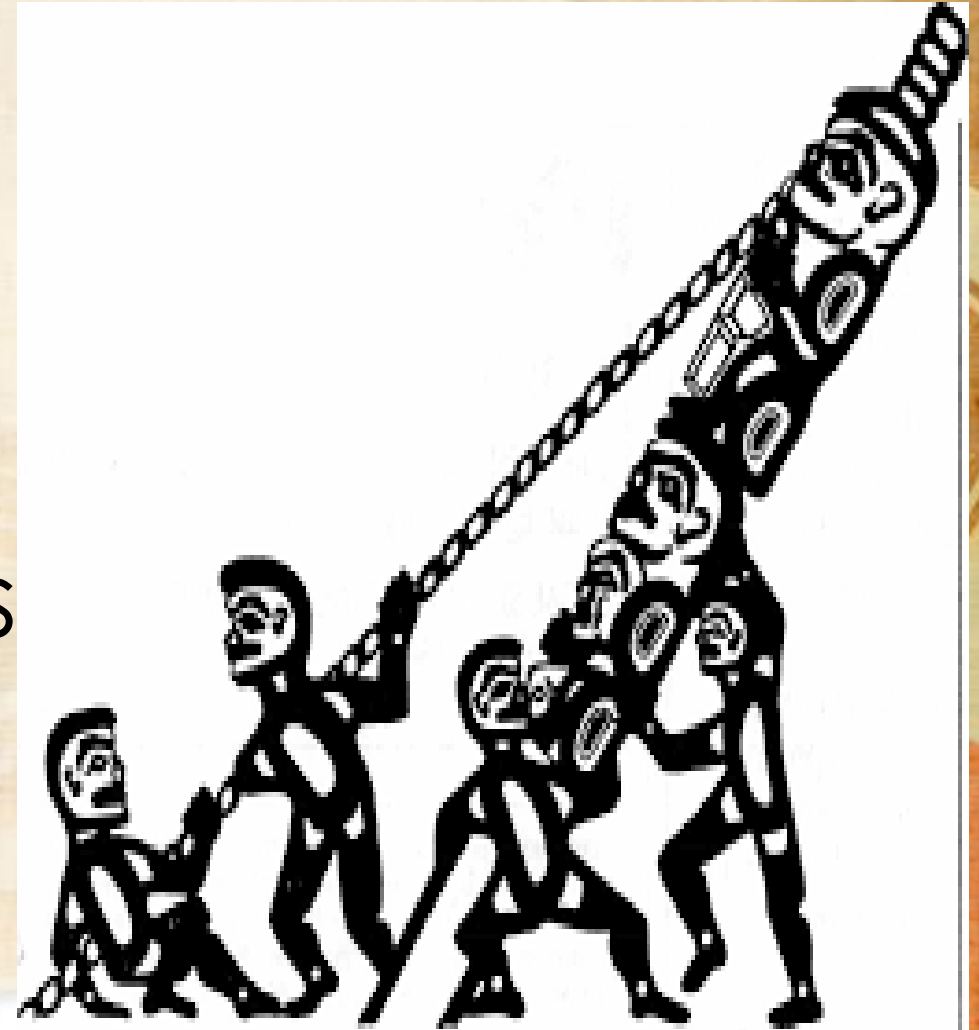
Subsistence Resources



- Climate impacts to traditional gathering calendars
- Maintain important First Foods like berry species
- Impacts to salmon
- Impacts on special forest products like cedar

Wooch.een (Working Together)

- Offset Cost
- Share Resources
- Develop Partnerships



Identifying our Issues



Erosion



Yuri Kozyrev/NOOR/eyevine

Permafrost Melt

Harmful Algae Bloom



Ocean Acidification



Alaska Ocean Acidification Network

Impacts of Ocean Acidification on Alaska Fish & Shellfish

Ocean acidification is expected to negatively impact species in Alaska. This research reflects results from peer reviewed literature.

| Resident marine species | Economic Importance/ Food Security |
|-------------------------|------------------------------------|
| Southern Tanner crab | Commercial |
| Red king crab | Commercial |
| Pink salmon* | Commercial |
| Dungeness crab* | Commercial |
| Blue king crab | Commercial |
| Northern rock sole* | Commercial |
| Walleye pollock | Commercial |
| Northern shrimp | Commercial |
| "Pempop" | Commercial |
| Battle clam* | Commercial |
| Public gastropod | Commercial |
| Commercial gastropod | Commercial |
| Hard shell mussel | Commercial |

KEY: * indicates... NOTE: The impact on Alaska species...

A hand is holding a bottle of beer in front of the poster. The bottle label reads "LONGSIGHT BEER" and "Pilsner".



Barriers

- Even with these efforts, it's hard to plan for these slow-moving/unseen disasters
- The biggest barrier to adaptation is the multiple bureaucracies, mandates and regulations that don't fit the system we see unfolding around us.
- Lack of resources generally
- Made worse by competitive granting process for something that all our communities need (ie., Adaptation Planning)

Traditional/Indigenous Knowledge



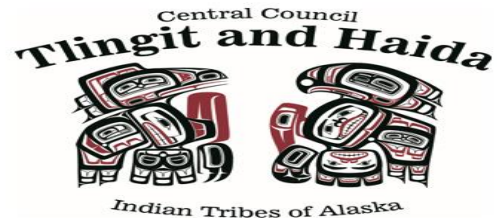
Regional Efforts

- Central Council Tlingit and Haida's Climate Change Adaptation plan
- Southeast Alaska Tribal Ocean Research (SEATOR)
- EPA Region 10 Tribal Operations Committee



Central Council Tlingit and Haida's Climate Change Adaptation Plan

The Central Council of the Tlingit and Haida Indian Tribes of Alaska
Climate Change Adaptation Plan



By
The Central Council of the Tlingit and Haida Indian Tribes of Alaska
July 10, 2019

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I. The Central Council of the Tlingit and Haida Indian Tribes of Alaska and Resilience

The Central Council of the Tlingit and Haida Indian Tribes of Alaska (Tlingit & Haida) is a federally recognized Indian Tribe that serves 20 villages and communities stretching over 43,000 square miles within the Alaska Panhandle. The Tlingit and Haida membership is among the largest, most isolated, and most geographically dispersed of Native or Tribal populations nationwide. The region encompasses a 525-mile strip of coastline and interior waterways, bordered by Canada on the north, south, and east, with the Gulf of Alaska on the west.

The area of Southeast Alaska known as the "Panhandle" or the "Alexander Archipelago" is one of the few temperate rain forests in the world. It consists of many islands which comprise the Alexander Archipelago, and a thin strip of mainland running from Dixon Entrance to Icy Bay. Southeast Alaska stretches from approximately 54 degrees north latitude at the southern tip of Prince of Wales Island to 60 degrees north latitude near Yakutat, Alaska. The many sounds, channels, straits, fjords, narrows, bays, coves and natural harbors create a maze of waterways between the islands and the mainland.

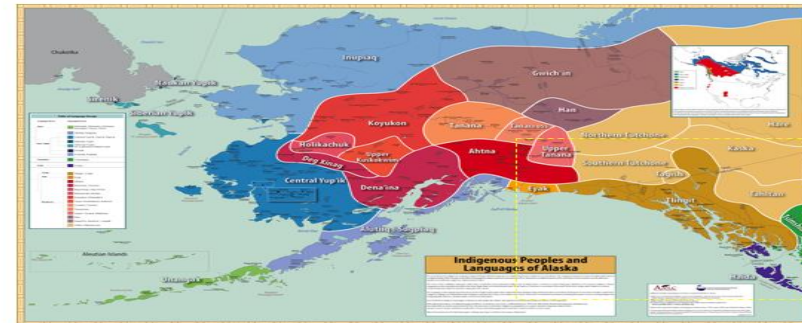


Figure 1: Tlingit and Haida Ancestral Land and Waters – Yellow dotted-lined box. (Source: UAF)

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<http://www.ccthita.org/services/community/environmental/documents/T&HClimateChangeAdaptationPlan.pdf>

A Climate Change Adaptation Plan & Template for a Unique Region

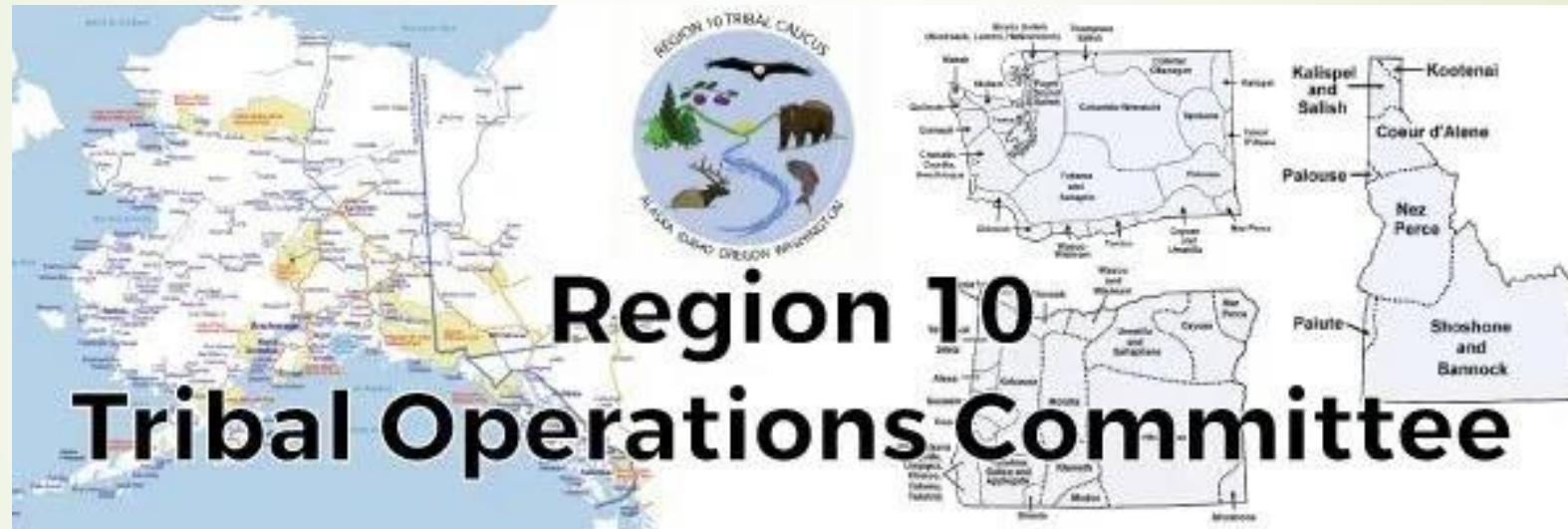


Shellfish / Harmful Algal Bloom / Ocean Acidification / Biomass Survey – SEATOR



<http://www.seator.org/>

EPA Region 10 Tribal Operations Committee



- Subsistence Initiative

<http://region10rtoc.net/home/>



A quick note on tribal response to COVID-19

- ▶ 130+ Alaska Native Tribes have issued Tribal Orders requesting that outsiders not visit their communities at this time
- ▶ Regardless of federal or state direction the appropriate authority for all inquiries is the tribe in our communities Check out the National Indian Health Board website for more info https://www.nihb.org/public_health/coronavirus_disease_2019.php
- ▶ **Please share this** with any of your colleagues who have oversight on operations in Alaska

Gunalcheesh/Haw'aa/Thank you!

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