Outreach and Engagement for the Makah Tribe’s Climate Adaptation Plan

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Outline

1. Makah Tribe Context
2. Makah Climate Planning Efforts
3. Community Engagement
4. Next Steps
Context of the Makah Tribe

- 1855 Treaty of Neah Bay
- Ceded 750,000 acres of land to the U.S. and reserved the rights to hunt, fish, gather, seal, and whale within surrounding Usual and Accustomed Fishing Areas
- The Makah Tribe, along with all other Northwest Tribes and Indigenous groups, have been cultivating salmon and marine resources for millennia
Lessons Learned from CC Assessments

- Dense, Highly Technical Review of Literature
  - Written by scientists for scientists
- Lack of Traditional and Cultural Knowledge Expressed
  - How to complement traditional knowledge with western science?
- Lack of Planning Relevancy
  - How does a vulnerability assessment translate into an adaptation plan? And how can an adaptation plan be implemented?
  - Issue of scale?
Climate Adaptation Logic Model

Climate Change Vulnerability Assessment

Traditional Knowledge and Cultural Assessment

Community Engagement Strategy

Climate Change Adaptation and Implementation Plan

Carbon Offset and Mitigation Plan

Community Outreach and Education Plan
Climate Adaptation Logic Model

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Community Outreach and Education Plan

How can we institutionalize this process within the Tribe?
Community Engagement

Developed a community survey with the following goals:
1. Help us to identify community concerns so that we can address those in the adaptation plan.
2. Learn some about the community’s understanding of climate change.
3. Understand the level of support for climate planning efforts.
4. Explore the challenges natural resource managers face when trying to incorporate climate change planning into their work; are there things the CCWG can do to make this easier.
Community Dinner

- Held a dinner in Neah Bay in February 2017.
- Members of the climate change workgroup discussed ongoing and future work.
- Had a table set up for people to take the community survey.
Ranked concerns of climate change impacts from the Makah community. Impacts to fisheries ranked the highest concern.

Community members’ level of worry about climate change impacts to the Makah Tribe.
temperature
- decreases in lower level food organisms for higher level fish stocks (less fish)
- Sea level rise affects wildlife
- Ice melting
- Change extinction of whales
- Weather rising sea levels
- Early berry harvesting increases of storms impacts on traditional harvest seasons
- Shellfish biota pest control food security water security

acidification
- Feed rise in sea levels heavy weather extreme heat
- For our fishes seafoods
- Conditions changing species w/in U&A Air quality sea level rise production resulting in a lack of prey for salmonids
- Acidity ocean refuse ocean and stream fossil fuel contamination education to the public
- Refuse ocean and stream fossil fuel contamination education to the public
- And stream fossil fuel contamination education to the public
- Level is rising more CO2 in the air less animal life animal species going extinct less food
- Warming unexpected weather changes heat waves dry summer
- Pollution our shellfish whales our dump (old one) is full of PB and POLLUTION
- Rivers animals weather pollution
- On the fishing in this area
- Life change in migration health etc WATER shortages atmospheric temperature rising ocean temperature change extinction of whales

water
- Quality air quality levels
- Decrease in primary ocean production resulting in a lack of prey for salmonids
- Causing issues with ocean life change in migration health etc
- Radioactive fallout from Japan
- Availability skin safety
- Quantity quality and quantity of fish

temperature and quality
- Air quality
- Being a coastal native
- Shellfish red tide and other toxins
- Marine mammals
- Effect on fishing plants and trees
- Atmospheric temperature rising

shortages
- Trees
- Security
- In summer months
- Ocean pollution our shellfish whales our dump (old one) is full of PB and POLLUTION
- Availability
- Dry conditions food chain fish life bees
- Shortage dryer summers colder winters more rain in the winter months
- Levels
Challenges identified by natural resource managers.

How important is it that your work address climate change?
Next Steps

- Climate Change Vulnerability Assessment
- Traditional Knowledge and Cultural Assessment
- Community Engagement Strategy
- Climate Change Adaptation and Implementation Plan
- Carbon Offset and Mitigation Plan
- Community Outreach and Education Plan

How can we institutionalize this process within the Tribe?
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