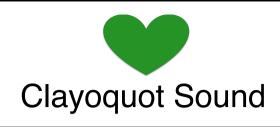
- Salmon are an integral part of the Clayoquot Sound food web and bring nutrients to freshwater and forest ecosystems.
- Commercial as well as recreational fisheries rely on a healthy wild salmon population.
- o Salmon is an important source of food, especially for long-term regional food security.

Climate Change Impacts on Salmon

- Higher stream temperatures would restrict salmon migration and spawning.
- Reduced marine oxygen levels will lead to reduced krill populations and therefore decrease food availability for salmon.
- Reduced rainfall in summer months will lead to the drying of spawning streams, delaying up-stream migration and impacting fry still in the streams





What can you do?

- o Show that you care about climate change. Talk to your local council
- o Help make our region more climateresilient by supporting Friends of Clayoquot Sound in protecting the old growth forests of Clayoquot Sound.
- o Help cut global carbon emissions by opposing industrial mega-projects that create massive increases in greenhouse gas emissions. Take the No-Tankers pledge and lets keep BC from becoming a climate changing energy corridor.



All photo credit - Adrian Dorst

Climate Change Local Values at Risk



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Old-growth Temperate Rainforests

Local Significance

- Clayoquot Sound is the largest area of old-growth temperate rainforest left on Vancouver Island.
- Old-growth forests as found in Clayoquot Sound store huge amounts of carbon and continue to do so. They are an important factor in climate change mitigation.
- Healthy forests protect freshwater bodies.
- The temperate rainforests found on Canada's west coast are an increasingly rare ecosystem. They are an important habitat and landscape feature.

Probable Climate Change Impacts on our Forests

 Vancouver Island could be facing a temperature increase of up to 7°C by

- the end of the century. Higher temperatures will cause a shift in species distribution, changing forests. Some species face higher potential for growth (e.g. Red Cedar) while others (e.g. Yellow Cedar) face extreme habitat loss.
- With higher temperatures and increased rainfall in winter more pests and diseases could occur.
- Increased risk of wildfires due to drier summers.
- Old growth forests show a much



Local Significance

- Surfing is a popular recreational activity with locals and visitors
- Surfing and surf culture add to the area's character and popularity with visitors
- Surf beaches hold high economic value

Climate Change Impacts on Surfing

- More frequent and severe storms could lead to a loss of sand on surf beaches
- o Rising sea levels will in the long term lead to shoreline retreat
- o Hard to predict changes in the way waves break might occur
- A higher number of coastal protection schemes might have to be installed to protect commercial and housing developments, reducing beach access and quality.
- o Higher water temperatures lead to denser algae blooms, clogging beaches and the water surface.



Significance to the West Coast

o Salmon have high cultural and historical values