Changes in Freshwater Keep Salmon on the Run: Understanding the Interactions Between Stream Fishes and Water Temperatures

Ignore

Dying Salmon, Wildfires, Heat Waves, Vanishing Ice: In Alaska, Climate Change Is Impossible to

Drought and dry conditions impacting salmon across state

The water is so hot in Alaska it's killing large numbers of salmon

Bristol Bay Salmon Are in Hot Water

This past summer, high water temperatures contributed to the deaths of more than 100,000 salmon.



By Ryan Prior, CNN () Updated 7:23 AM ET. Sat August 17, 2019

by Nick Rahaim September 11, 2019] 700 words, about 3 minutes

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Alaskan salmon deaths blamed on record warm temperatures

of fish' in Alaska cause salm

Unprecedented heatwave 'kills thousands of fish' in Alaska 'We're seeing not just stressful temperatures for salmon, but

lethal temperatures,' experts say

Warm waters across Alaska cause salmon die-offs

Thursday, August 22, 2019 6:44pm NEWS ALASKA OUTDOURS

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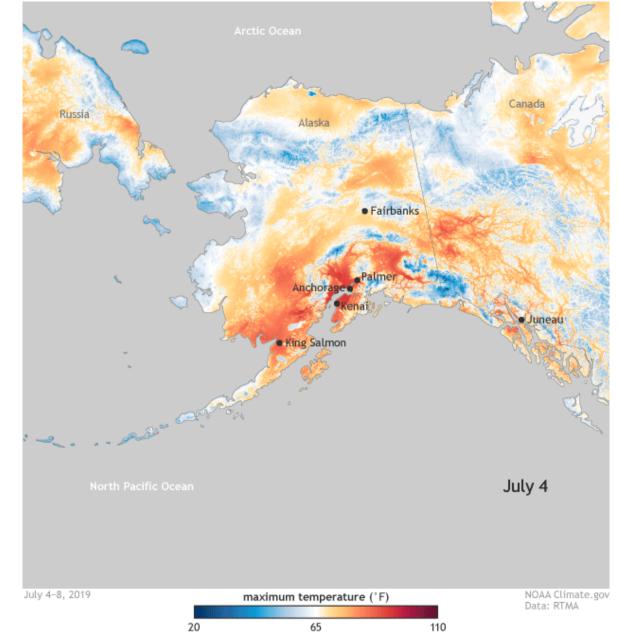
Record Warm Water Blamed for Salmon Deaths

Record-high temperatures in Alaska are believed to be the culprit behind salmon deaths in the western part of the state.

Alaska's Salmon Dying in Warm Rivers

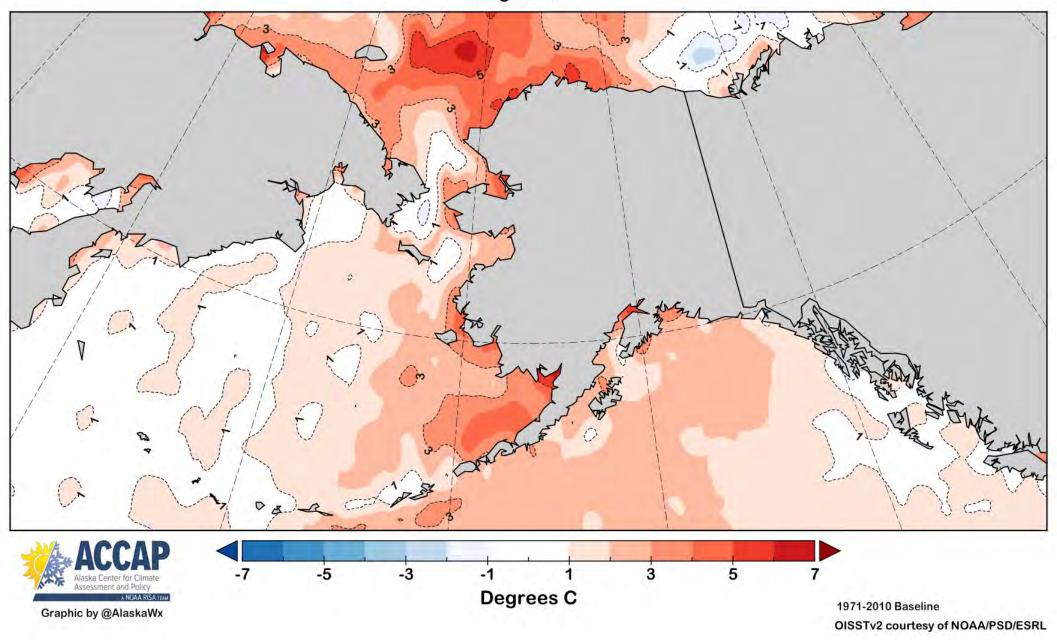
By Associated Press, Wire Service Content July 13, 2019, at 7:26 p.m.

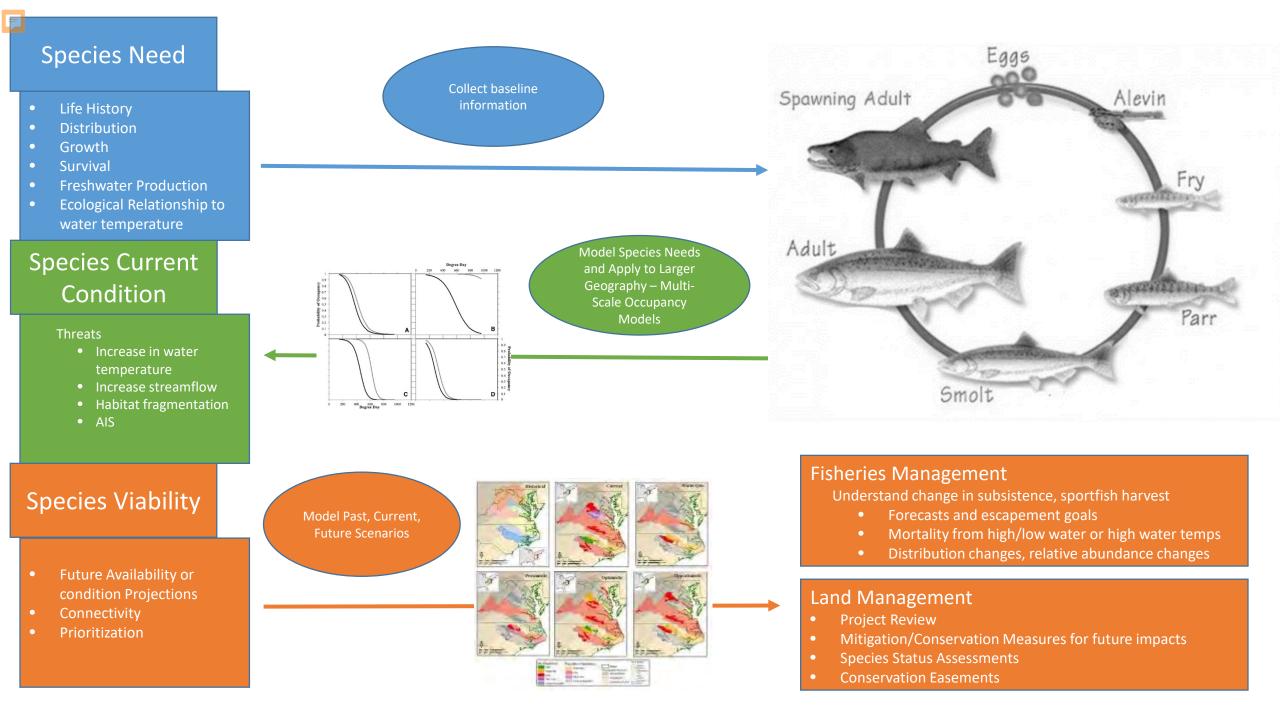
High temperatures smash all-time records in Alaska in early July

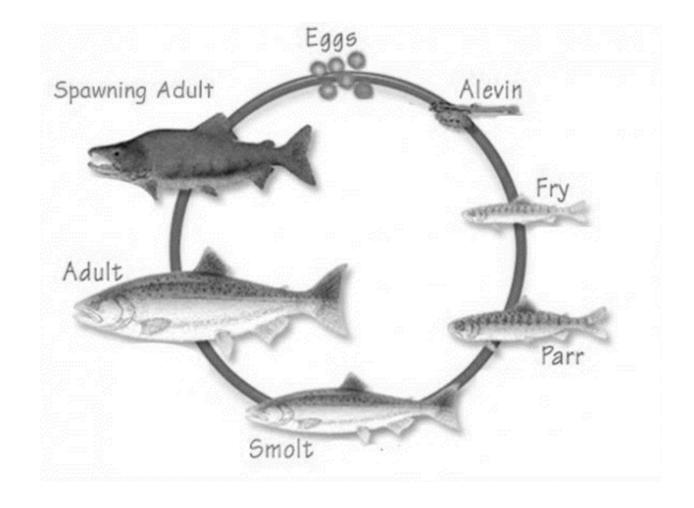


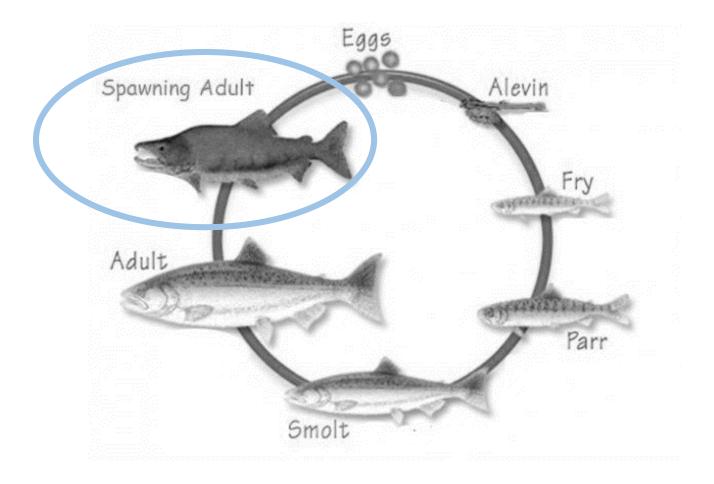
Average Sea Surface Temperature Departure from Normal

August 2019



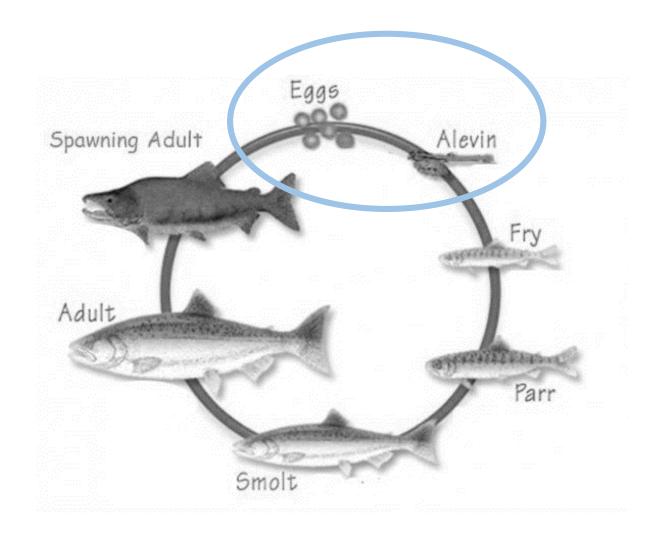




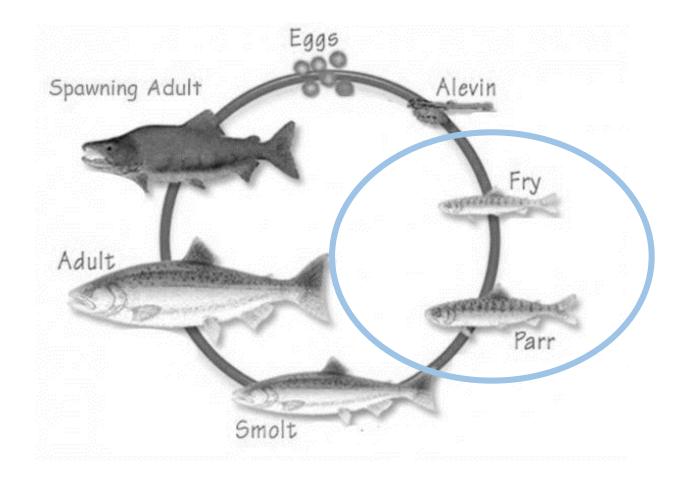


Physiological Effects: Reduced gamete viability Disease Reduced swimming performance

> **Behavioral Effects:** Migration delays

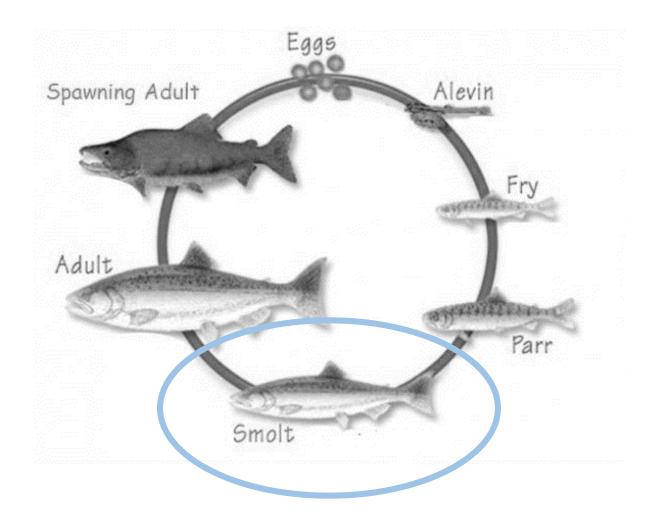


Physiological Effects: Reduced egg viability Late emergence



> Physiological Effects: Suboptimal feeding Suboptimal growth

Behavioral Effect: Redistribution



Physiological Effect: Impairment to smoltification

Behavioral Effect: Changes to outmigration timing

Summary

Stream temperature and discharge have profound influences on salmon and their habitats. As such, environmental conditions like warm temperatures and changes in flood frequencies have the potential to significantly alter the suitability of freshwater habitat for Alaskan salmon populations.





National Park Service October 9 · 🚱

She is beauty and she is grace, she stuffed a lot of salmon in her face... Your 2019 Heavyweight Champ! #FatBearWeek

