

Western Washington University
Western CEDAR

Salish Sea Ecosystem Conference

2022 Salish Sea Ecosystem Conference (Online)

Apr 26th, 1:30 PM - 3:00 PM

Three Big Themes (and a thousand Band-aids) we need to move forward to protect the Salish Sea

Ginny Broadhurst Western Washington University

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Broadhurst, Ginny, "Three Big Themes (and a thousand Band-aids) we need to move forward to protect the Salish Sea" (2022). *Salish Sea Ecosystem Conference*. 371. https://cedar.wwu.edu/ssec/2022ssec/allsessions/371

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Environmental Cooperation Agreement Between the Province of British Columbia and The State of Washington

HEREAS the Province of British Columbia and the State of Washington are committed to ensuring a consistent and high-level of environmental quality for their citizens; and

WHEREAS environmental concerns and impacts respect neither physical or political boundaries, and both governments recognize the necessity for joint action on issues of mutual interest; and

WHEREAS the Ministries of the Province and the Executive Departments of Washington wish to share information and to cooperate on environmental matters, are prepared to work together with respect to their responsibilities, and wish to enter into specific cooperation arrangements; and

WHEREAS the increased complexity of environmental issues, particularly their interjurisdictional impacts, requires coordinated responses from both governments;

Now, THEREFORE, the Province of British Columbia and the State of Washington agree to establish a British Columbia/Washington Environmental Initiative to promote and coordinate mutual efforts to ensure the protection, preservation and enhancement of our shared environment for the benefit of current and future generations;

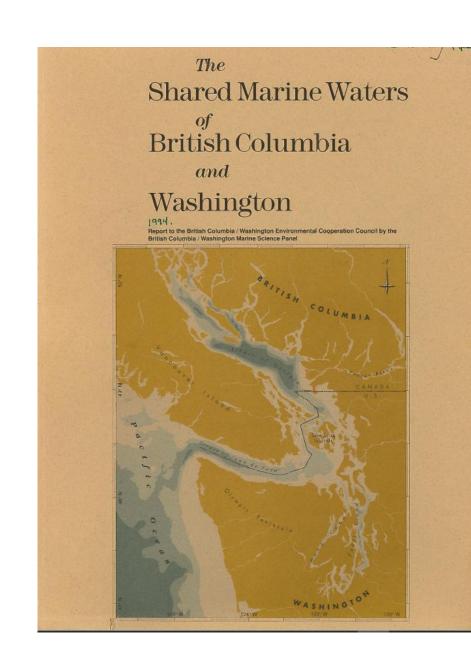
The parties also agree to develop an action plan, which shall form part of these efforts, reflecting mutual priorities and to enter into specific arrangements necessary to address environmental problems.

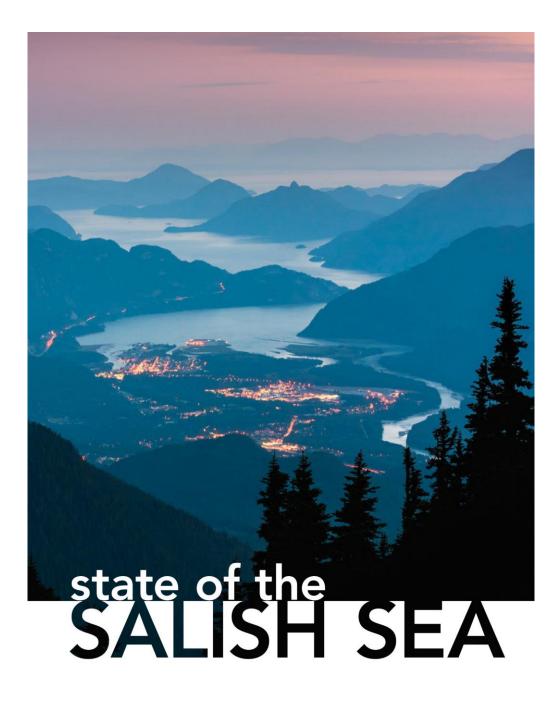
DATED AT Olympia Washington, United States of America, This 7 ™ day of May, AD 1992.

Del Dossol Hansen

Mike Harcourt, Premier Province of British Columbia

Booth Gardner, Governor State of Washington





Released May 25, 2021

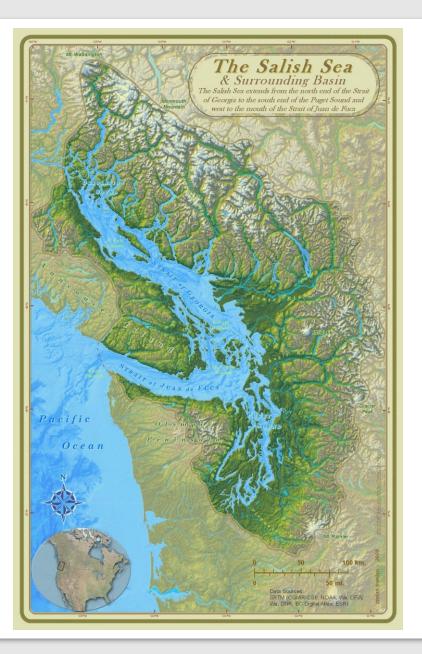
Sobocinski, K.L. (2021). State of the Salish Sea (G. Broadhurst and N.J.K. Baloy, Contributing Eds.). Salish Sea Institute, Western Washington University, Bellingham, WA.

3 Big Themes

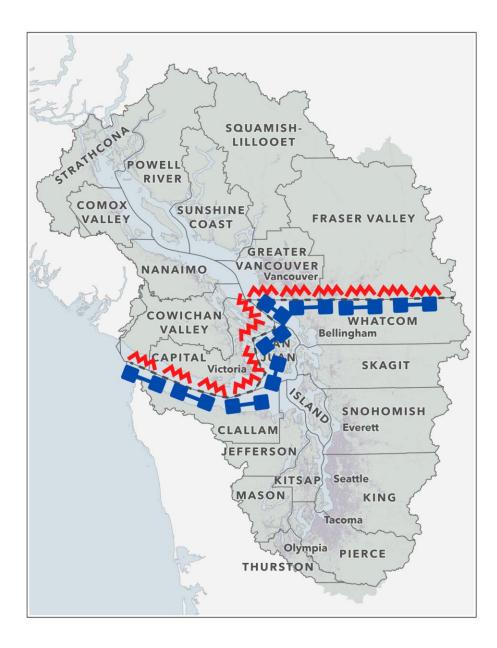
- Salish Sea is one ecosystem
- Solutions are possible think big
- We all need to plan for a different future

One Ecosystem

Salish Sea from space Source: NASA 2021



Map by Stefan Freelan, WWU, 2009



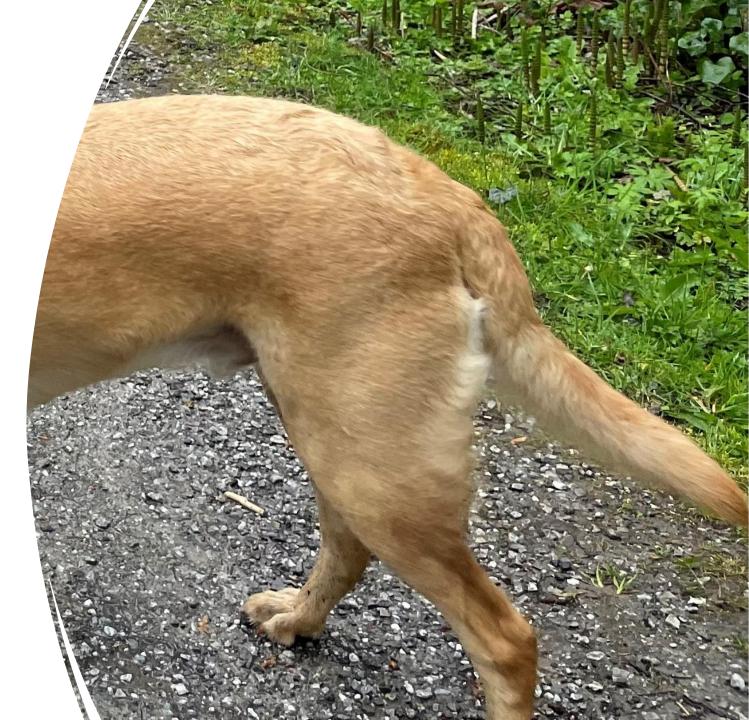
Map by Dr Aquila Flower, WWU, 2021 – embellishment by Tabitha Hellman, directed by Ginny Broadhurst

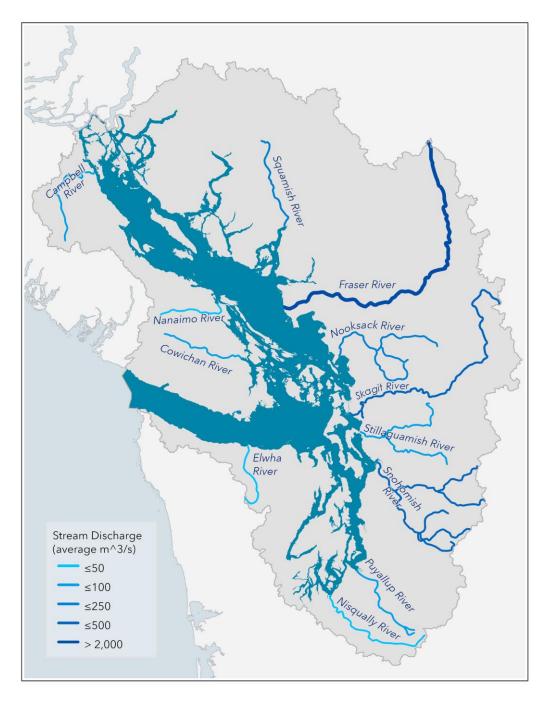


Bow had a limp that turned out to be elbow displacia

Sorry I only have jurisdiction on the tail and back legs – our monitoring system doesn't indicate any problems

you'll have to talk to my Canadian counterpart to find out what's going on up there.





Map by Dr Aquila Flower, WWU, 2021



The Fraser River plume As seen by European Space Agency's Copernicus satellite

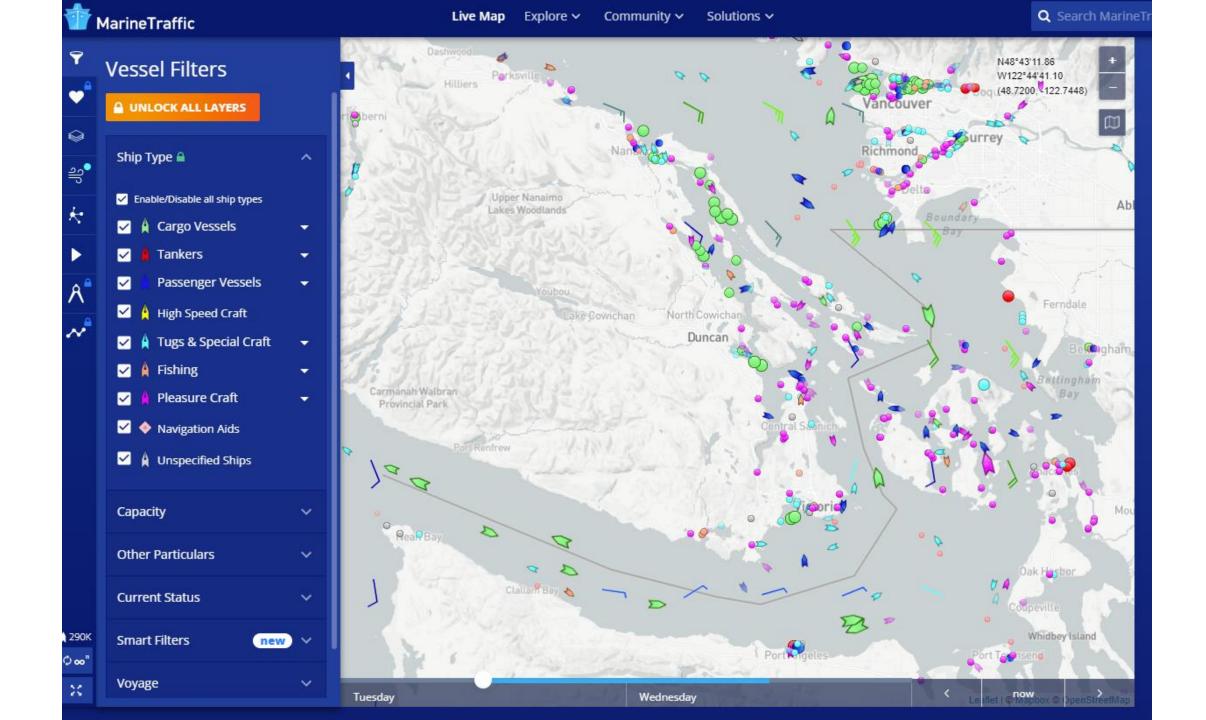
Source: European Space Agency 2021

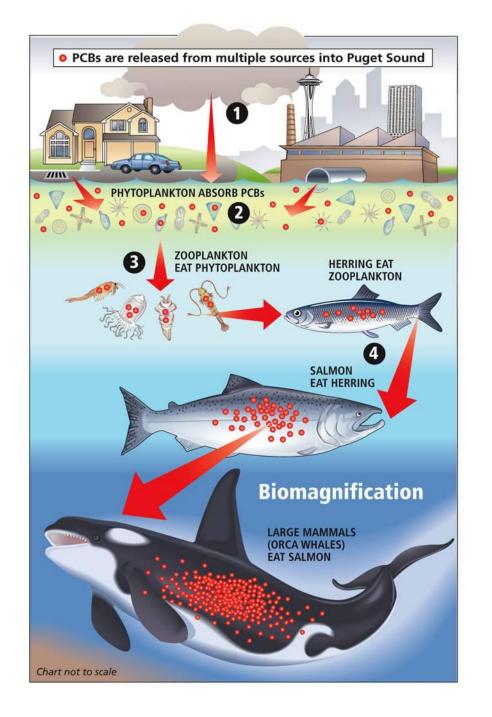
Orcas in Bellingham Bay 2020

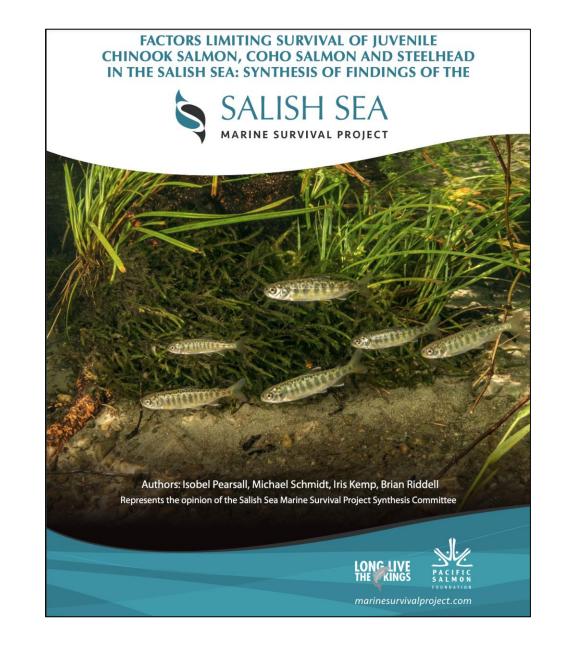
and the second s

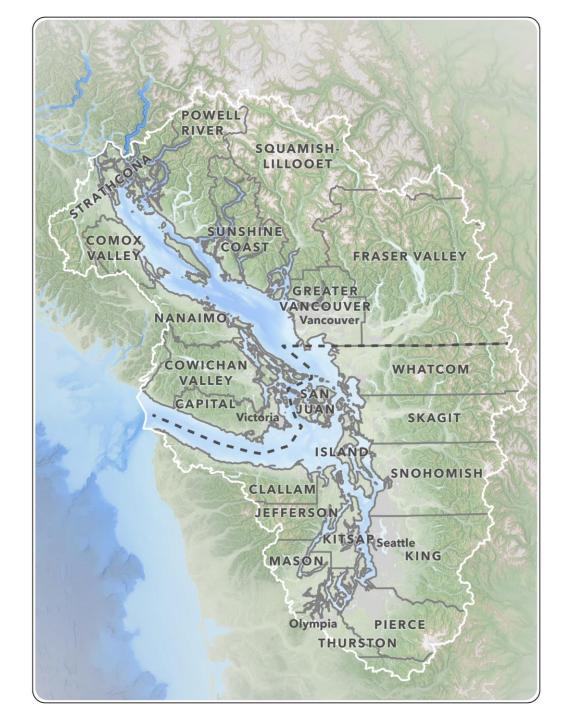
- (000) Billion





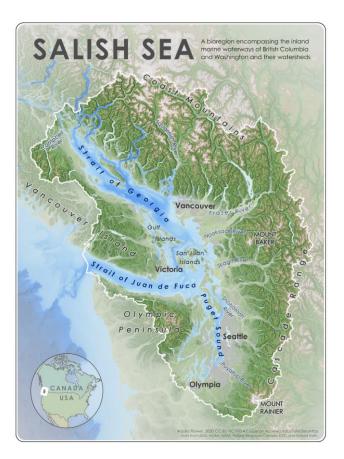




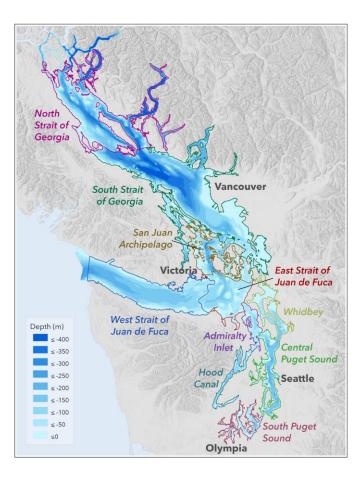


Map by Dr Aquila Flower, WWU, 2021

Salish Sea maps and models are vital tools







Maps by Flower, Freelan and Flower respectively

Open access, free downloads <u>www.wwu/salishsea</u> - maps



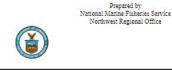


Washington State Blue Ribbon Panel on Ocean Acidification

Treaty Rights



Ocean Acidification: From Knowledge to Action







NDRA

Recovery Plan for

Southern Resident Killer Whales (Orcinus orca)

Volume

January 19, 2007

Plan adopted by the National Marine Fisheries Service (NMFS)



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BIOSPHERE REGION

Georgia Basin **Action Plan** (Archived)

Fraser River Estuary Management Plan

And many, many more....





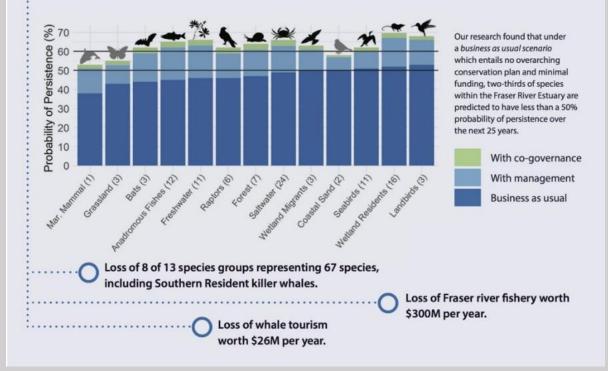
102 species are **AT RISK** of extinction in the Fraser River Estuary

It's not too late to save them.

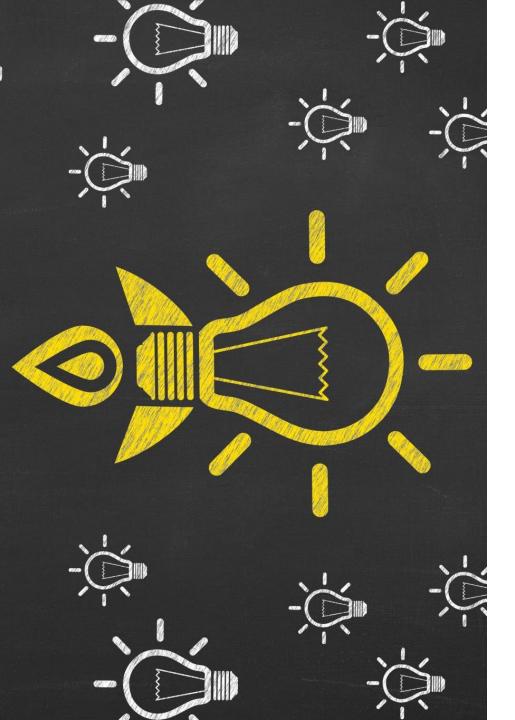


O The cost of doing nothing is staggering

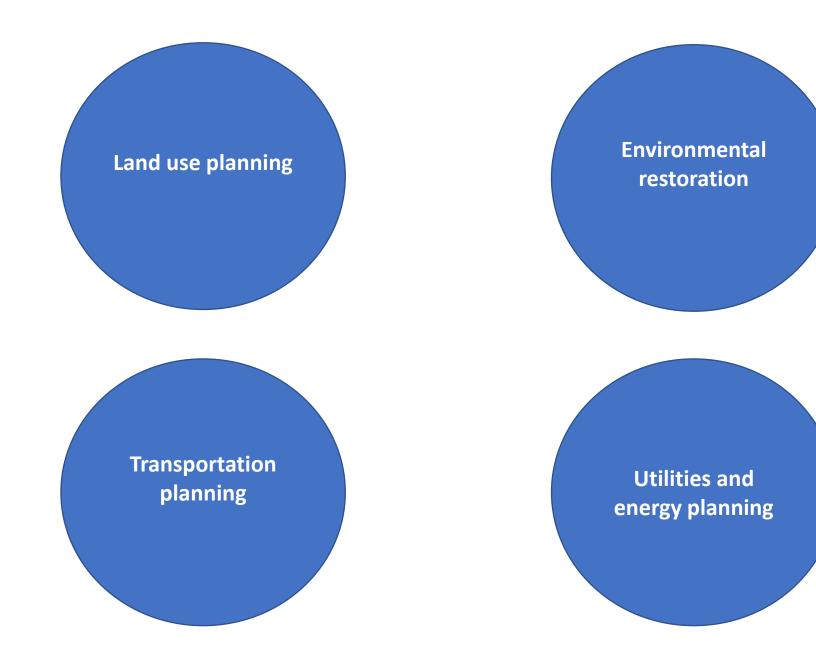
Priority management and co-governance are crucial for species recovery.

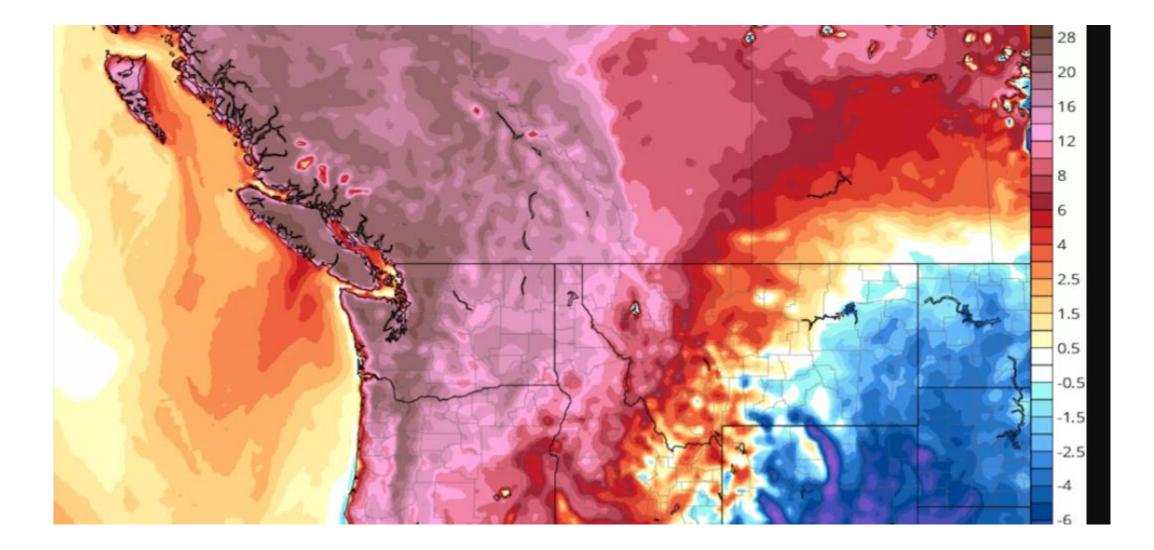


Source: Kehoe et al. 2020 Conservation in heavily urbanized biodiverse regions requires urgent management action and attention to governance Conservation Science and Practice



Plan for a different future – not business as usual

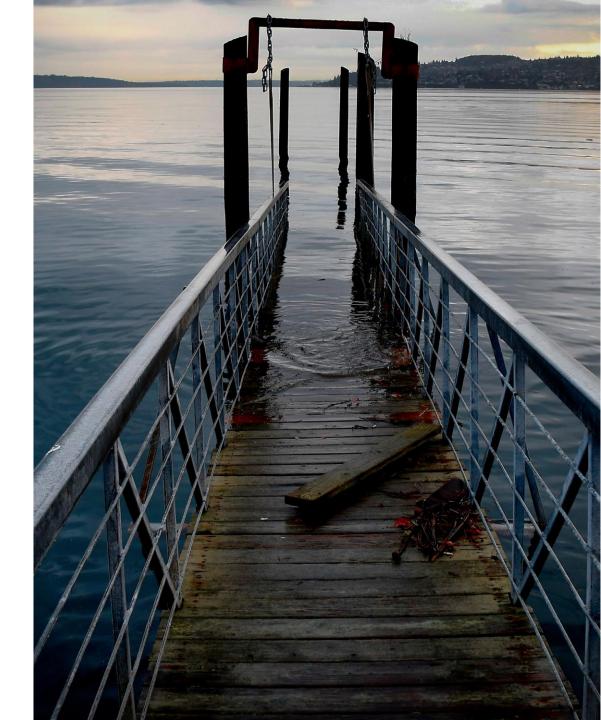


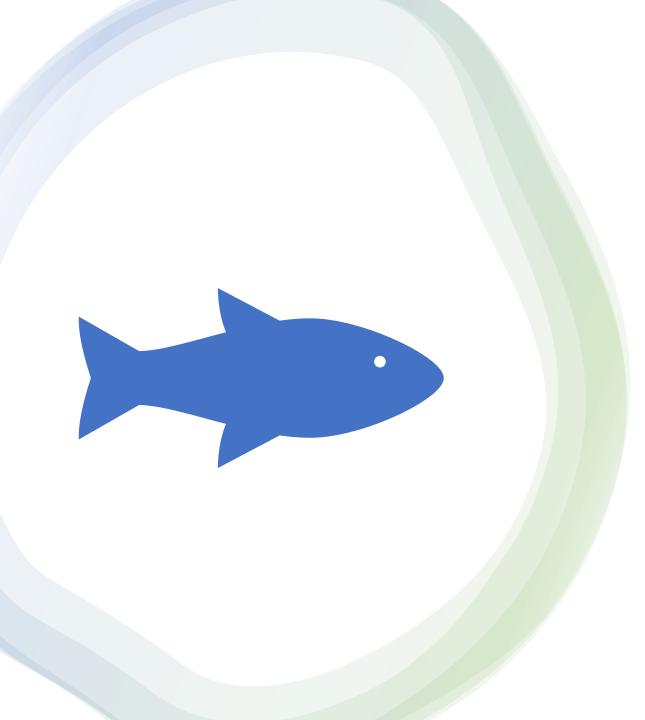


Plan for a different future

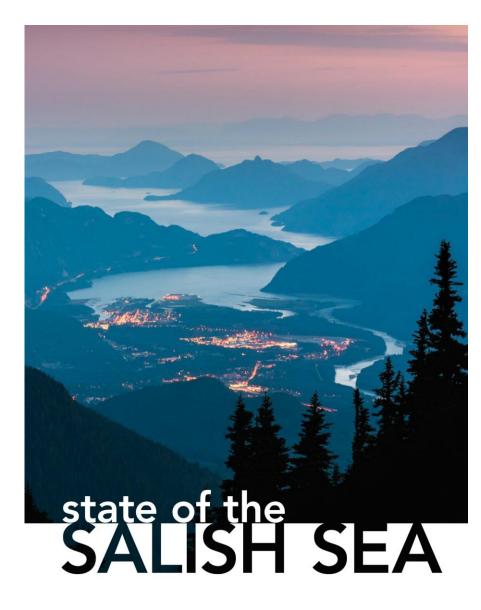
Climate impacts are here - climate adaptation and mitigation need to be incorporated into everything we do

> King Tide in Tacoma, WA Photo: Ryan Dicks via MyCoast





- Acknowledge and advocate for the Salish Sea as one ecosystem in your work, in your conversations.
- Think big, think across disciplines and borders. Push for collaboration.
- Prepare for a different future, be solutions oriented and be part of the solution.



Many thanks to Kathryn Sobocinski and Natalie Baloy for their work and conversations related to salish sea and where we go from here.

> Salish Sea Institute @wwusalishsea on FB and Twitter wwu.edu/Salishsea