

Young-of-the-Year Rockfish Survey Program

2022 Year in Review



Effort continues to increase

2022 YOY Program Stats

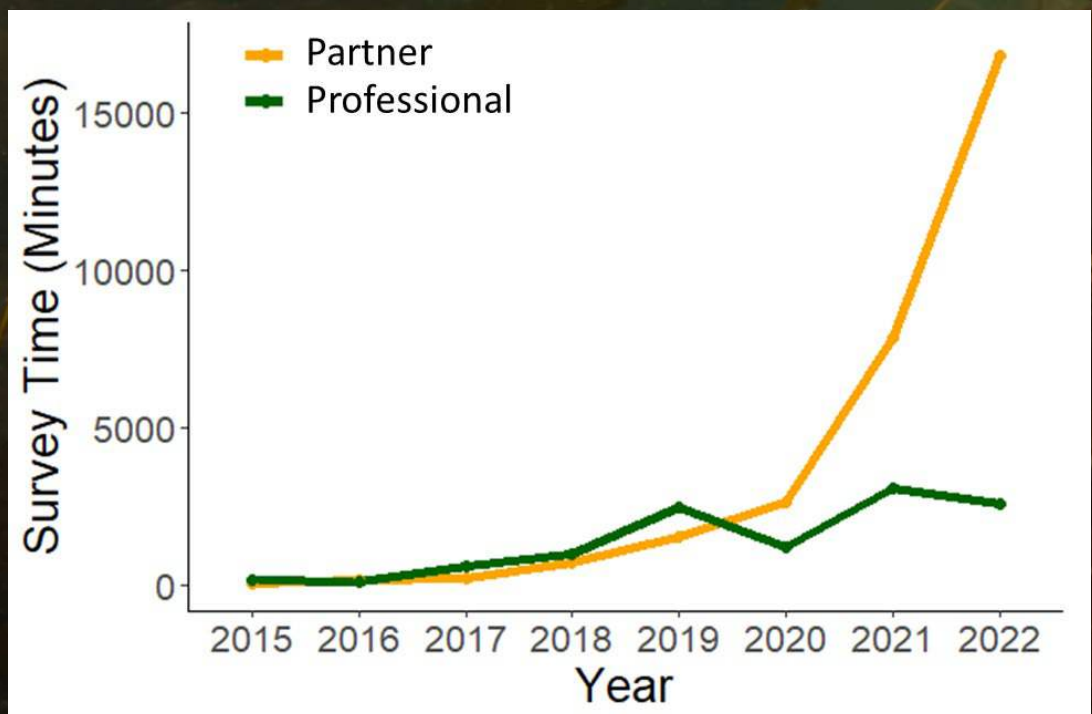
288 Site Visits

106 Unique Sites

1,998 Transects

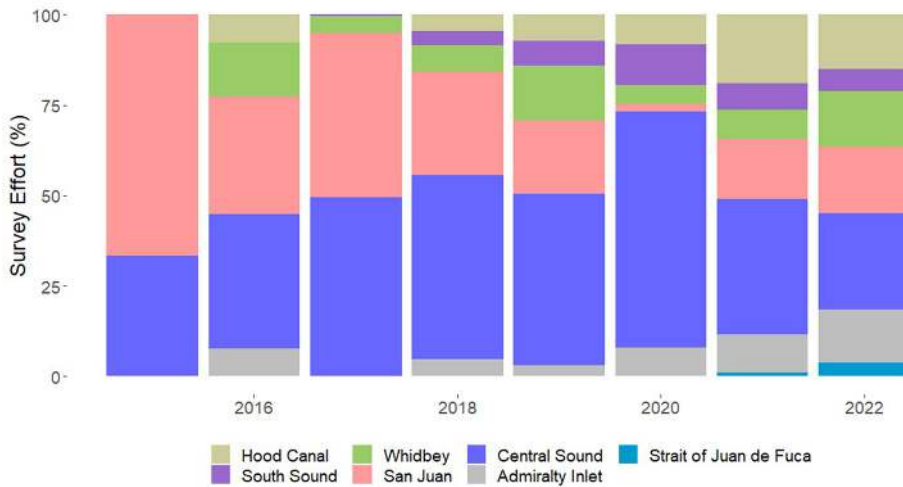
19,327.5 Survey Minutes

It's not a competition, but if it was...





New partner, better coverage

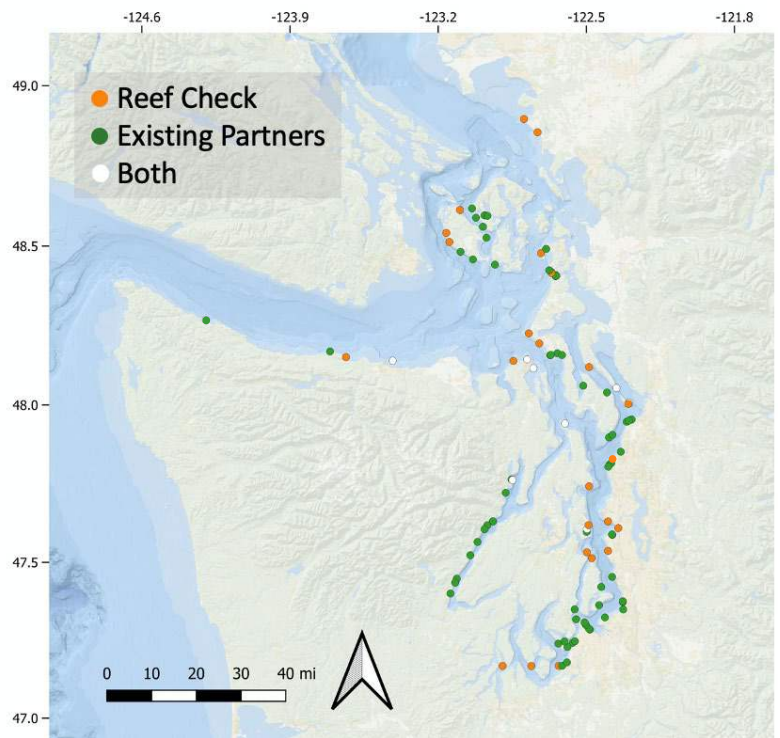


A major reason for the **greater evenness** in effort across basins is because of our partner, **Reef Check!**



2022 Reef Check YOY Survey Stats

-  23 Novel Sites
-  34 Survey Events
-  784 Transects
-  4,372 Survey Minutes



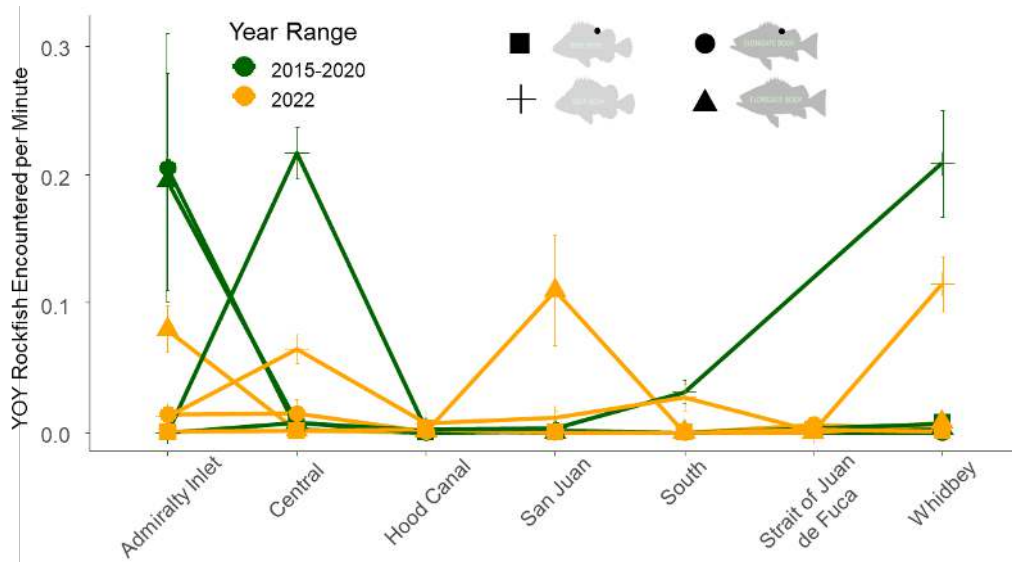
Note – several Reef Check sites are covered in this map, including Sund Rock, and Goby Garden



A **MASSIVE** thank you to **Reef Check** for their survey efforts!

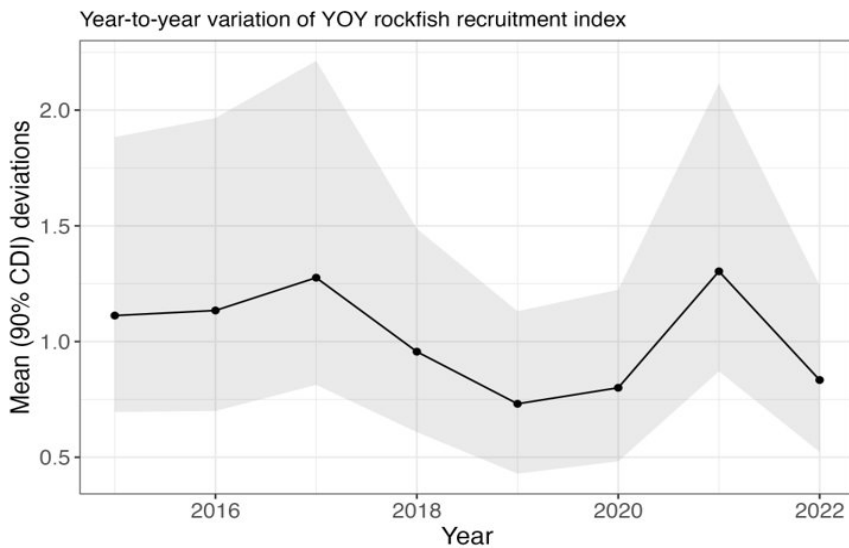


We can say more about YOY



* 2021 is excluded because it was a boom year

We took our messy data and collaborated with many partners, including NOAA's NWFSC, to **create a single recruitment index (fancy!)...**



using this **YOY rockfish monitoring plan** for the Southern Salish Sea!

Young-of-the-year rockfish monitoring plan for the Southern Salish Sea



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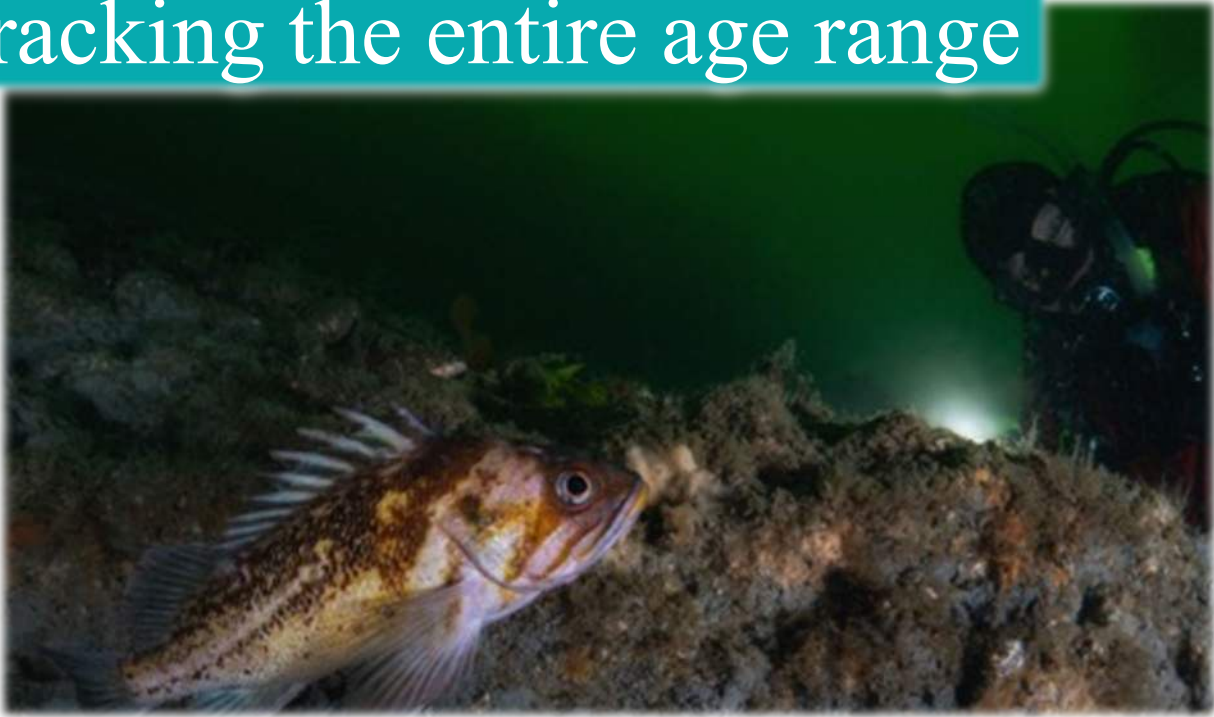
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A collaboration among:



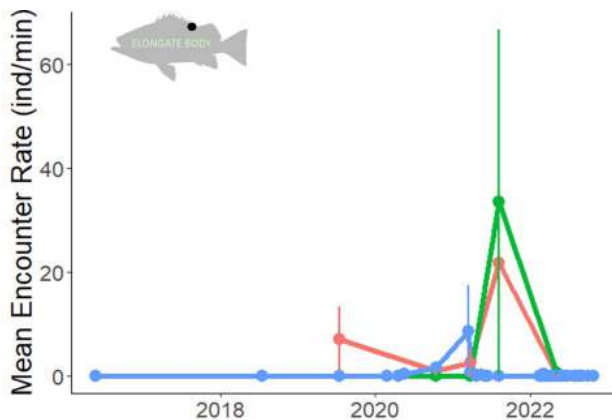
Tracking the entire age range



Since 2018, a subset of surveyors have been collecting data on adult rockfish...

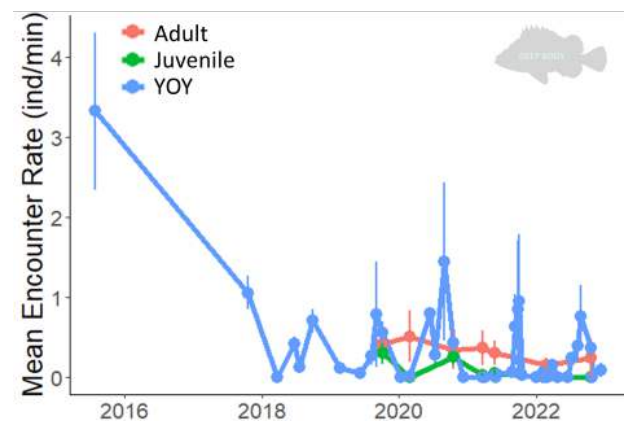


Keystone Jetty



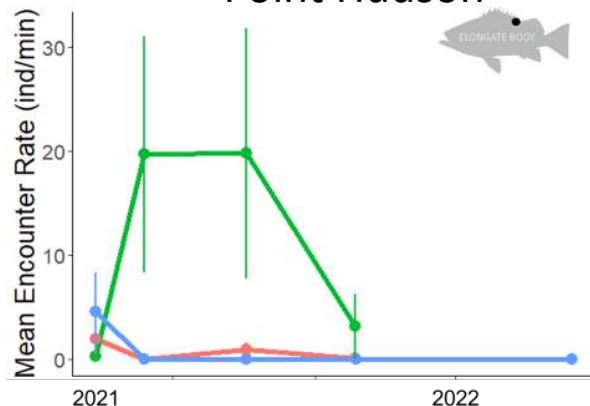
Notice a boom event in elongate/dorsal spot RF in Keystone and Point Hudson and no boom event in deep body/no dorsal spot at Edmonds

Edmonds Underwater Park

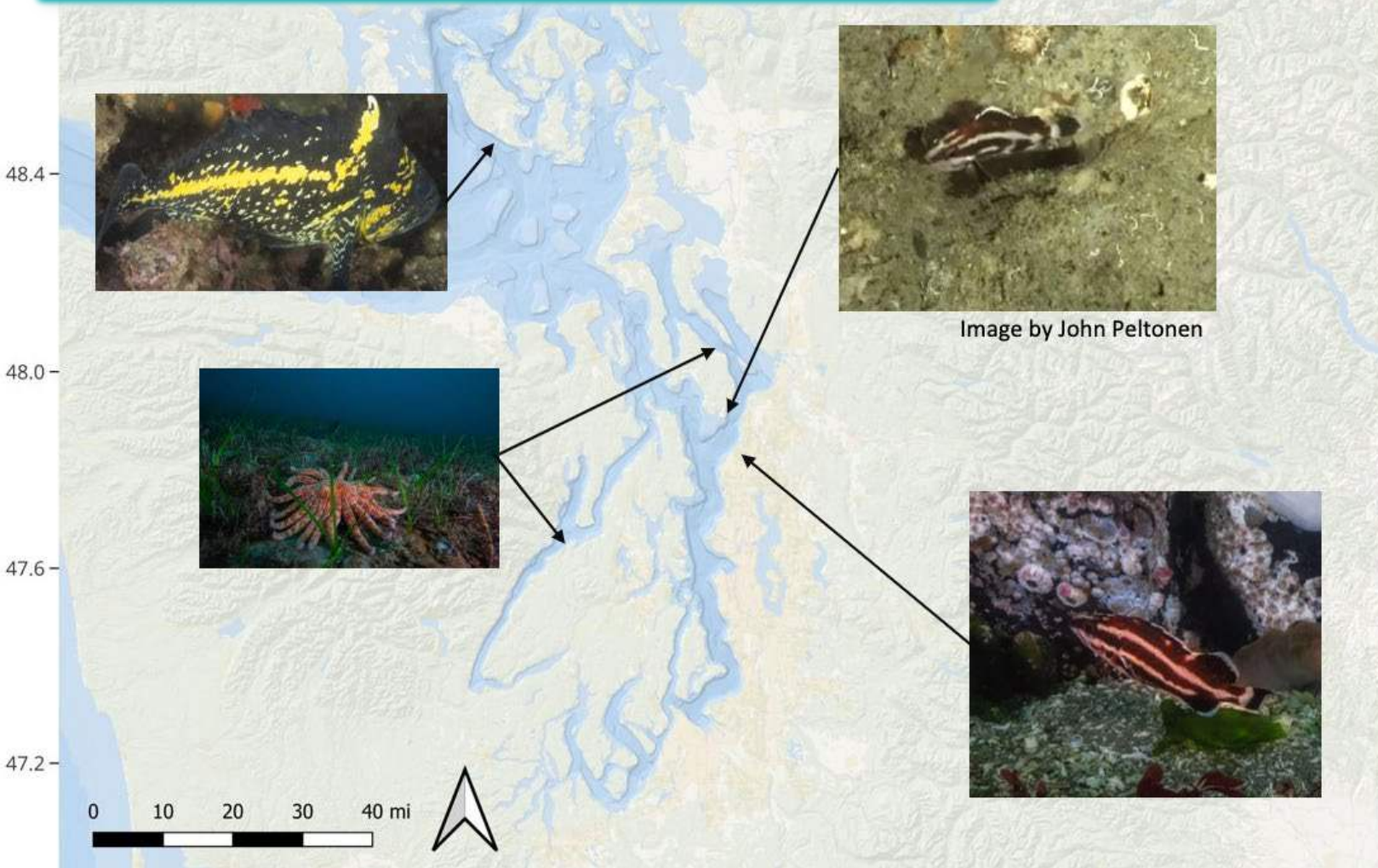





This allows us to look at age classes through time & visualize effects of a boom event

Point Hudson




A few additional highlights from 2022



-  Multiple YOY Yelloweye (*S. ruberrimus*) found at Possession Point and Edmonds Pipeline
-  Possible *Pycnopodia* hotspots found in northern Hood Canal and Whidbey Island
-  First adult China rockfish (*S. nebulosus*) in the program recorded off the west side of San Juan Island



An underwater photograph showing two large, mottled fish swimming in a shallow, clear water environment. The fish are positioned on the left and right sides of the frame, facing each other. The background is filled with dense, dark green seaweed and other aquatic plants. Sunlight filters through the water, creating bright, shimmering patterns on the seaweed and the fish's scales. The overall tone is serene and natural.

Thank you to our partners!
*This would not be possible
without your help.*

*This program is generously funded through the
National Marine Fisheries Service West Coast Region
Education and Outreach Program.*



Partners: Aquarium of the Pacific, Bottom Dwellers Dive Club, Everett Community College, Emerald Sea Dive Club, Friends of Saltwater State Park, Harbor WildWatch, NOAA Affiliates, Tacoma SCUBA, Surfrider Foundation, Point Defiance Zoo and Aquarium, JenJay Consulting, Pacific Marine Research, Lighthouse Diving, Marker Buoy Dive Club, Northwest Dive Adventures, Puget Sound Restoration Fund, SeaDoc Society, Rosario Beach Marine Laboratory, Soundwater Stewards, Reef Check, UC Davis, and Western Washington University.

If you want to participate or have questions, reach out to us at Adam@pauamarineresearch.com or RockfishID@noaa.gov.

Check out www.pauamarineresearch.com to learn more!

