## Enabling coexistence: Indigenous voices reveal key strategies for navigating the return of sea otters

Through a collaborative partnership with Indigenous leaders and knowledge holders (<a href="www.CoastalVoices.net">www.CoastalVoices.net</a>) from Alaska to British Columbia, we conducted workshop focus groups and community surveys that identified a suite of strategies for improving coastal Indigenous people's ability to adapt to the social, ecological, and cultural changes that are triggered by the recovery of sea otters.



Our findings reveal four key strategies are perceived as critical to facilitate the coexistence of people and sea otters:

 $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ 

Indigenous and federal governments share power in making decisions about sea otter management planning, policies, research, and monitoring.

Establish adaptive co-management

Implement locally-designed co-management plans for sea otters, shellfish, and kelp that can be adapted based on monitoring over time.

Survey results also showed coexistence with sea otters is improved if Indigenous people have the right to engage in the traditional practice of hunting sea otters in their traditional territories.

Gather & incorporate Indigenous knowledge

Ensure contemporary management is informed by Indigenous knowledge of sea otters, shellfish, and kelp. This includes information, protocols, and practices, along with cultural values and principles.

4 Build learning platforms

Communities can benefit by learning from others' experiences of navigating sea otter recovery. This can be done by building forums and networks to share experiences, support, and information about management approaches and outcomes.







of Port Graham/Nanawalek, Alaska, and 2) the Kyuguot/Chekleset First Nations in B.C.

This study suggests that enhancing Indigenous peoples' ability to coexist with sea otters will require a *transformation in current resource management* if we are to navigate towards a system that is both ecologically sustainable and socially just. Existing examples of Indigenous co-management of marine mammals provide evidence that such a transformation is possible.

We identify a suite of possible actions to improve Indigenous communities' capacity to coexist with sea otters. These are relevant to many communities and governments that are currently navigating or anticipating sea otter recovery across the northeast Pacific.

More broadly, this study illustrates how *regime shifts can disproportionally impact Indigenous communities* that are reliant on subsistence harvest and are frequently marginalized in natural resource management. Our findings highlight the **need for more Indigenous authority, knowledge, and leadership in addressing the challenges that accompany predator-recovery** in complex systems where people and nature are tightly linked.

Learn more at www.CoastalVoices.net



STUDY TITLE: Enabling coexistence: Navigating predator-induced regime shifts in human-ocean systems
AUTHORS: (photos above - left to right) Jenn Burt, Kii'iljuus Barb J. Wilson, Tim Malchoff, Wii-tsts-koom Anne Mack, Skil Hiilans
Allan Davidson, Gitkinjuaas Ronald Wilson, and Anne Salomon
PUBLISHED IN: People and Nature. May 2020. https://besjournals.onlinelibrary.wiley.com/doi/full/10.1002/pan3.10090

Thanks/Qyuanna/Haaw'a/Giáxsixa/Kelko to the Nuu-chah-nuth Council of Ha'wiih, The Haida Hereditary Chiefs Council, and the Heiltsuk Hemas, along with the Nuu-chah-nuulth Tribal Council, Council for the Haida Nation, Heiltsuk Tribal Council, and Chiefs of Port Graham and Nanwalek who approved and supported this work in your territories. We are deeply thankful to the project steering committee. We also thank the Hakai Institute for hosting the 2014 workshop and supporting Jenn Burt, and Pew Charitable Trusts for project funding by way of a Pew Fellowship to Anne Salomon.