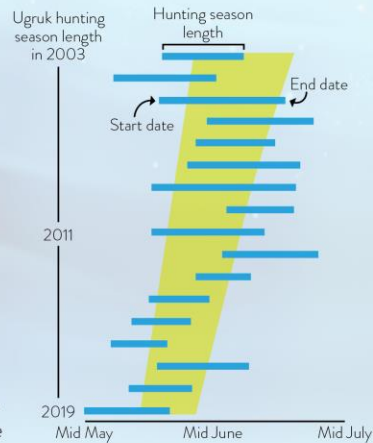


Loss of Indigenous hunting opportunities in the face of Arctic climate change

Donna Hauser, Alex Whiting, Andrew Mahoney, John Goodwin, Cyrus Harris, Robert Schaeffer, Roswell Schaeffer Sr., Nathan Laxague, Ajit Subramaniam, Carson Witte, Sarah Betcher, Jessica Lindsay, Christopher Zappa

**1 day/
year
shorter**

The ugruk (bearded seal) hunting season in Kotzebue Sound shrank ~1 day per year, ending ~26 days earlier, over the past 17 years. Sea ice breaks up ~22 days earlier & contributes to the decline.

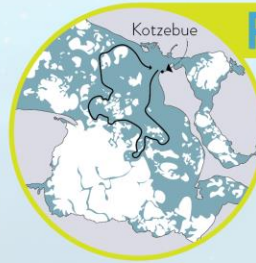


<https://doi.org/10.1088/1748-9326/ac1a36>



NATIVE VILLAGE OF KOTZEBUE
KOTZEBUE IRA

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Past ice

Consistent ice, more searching for ugruk, consistent success.



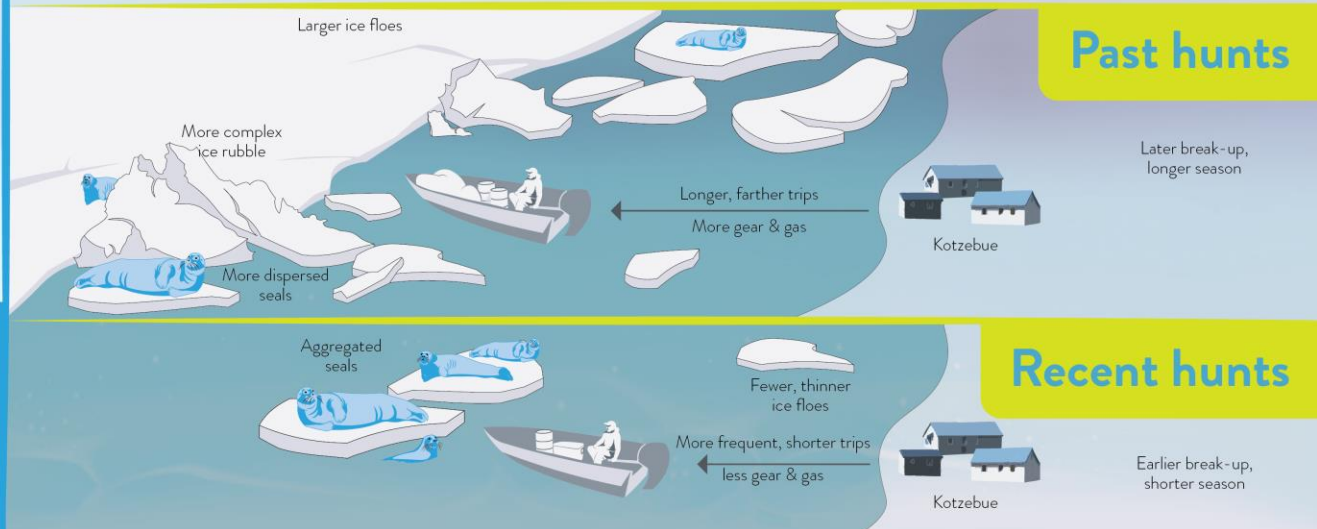
Recent

Recent scenario: Ice close to Kotzebue, low effort, high success.



Future

Possible scenario: Ice far from shore, more searching, lower success.



<https://iopscience.iop.org/article/10.1088/1748-9326/ac1a36/pdf>