

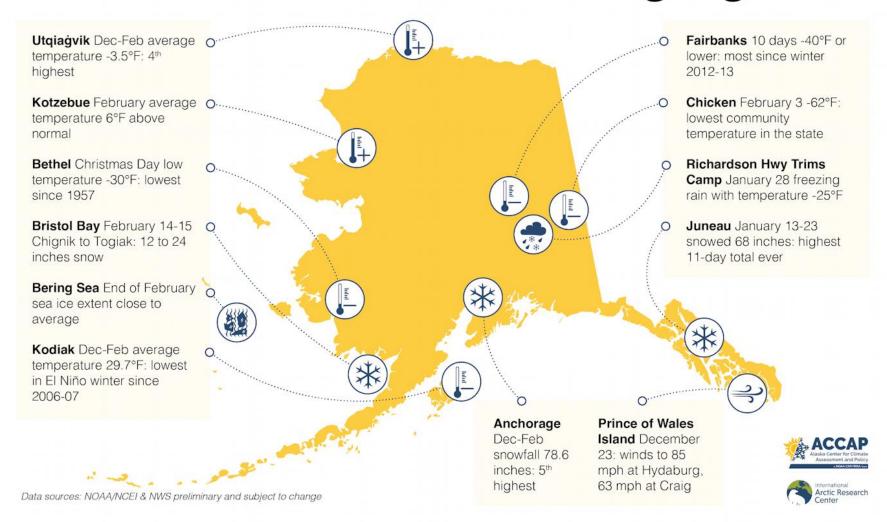
LEO Alaska Webinar Winter 2023-24 Climate Review and Spring 2024 Outlook

Rick Thoman

Alaska Center for Climate Assessment and Policy
University of Alaska Fairbanks

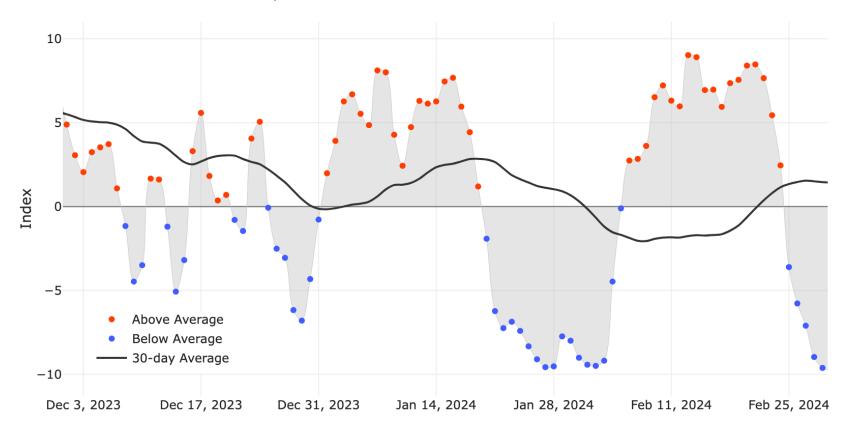


Winter 2023-24 Alaska weather & climate highlights



Alaska Daily Temperature Index

Alaska Statewide Temperature Index December 1, 2023 to February 29, 2024

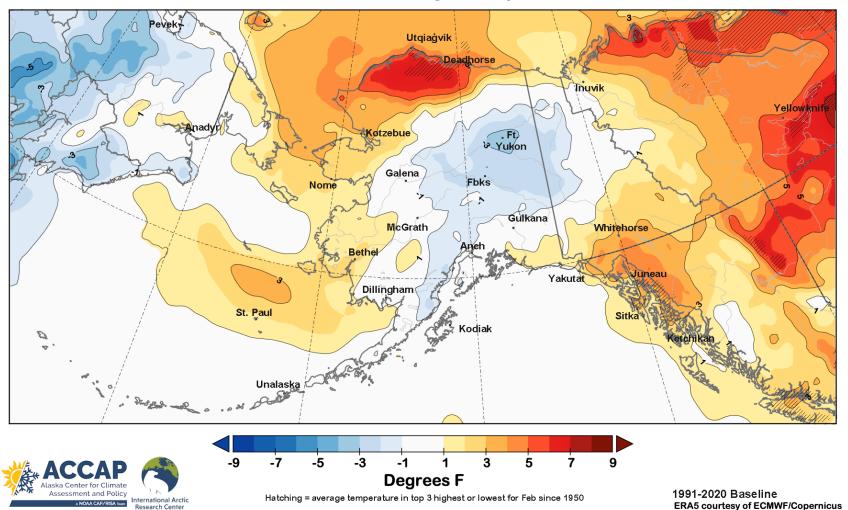




Temperature Difference from Normal

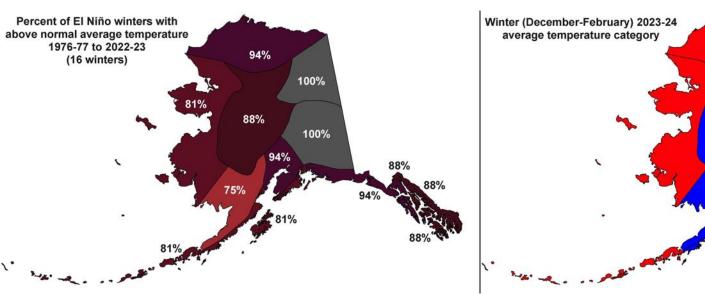
Average Temperature: Departure from Normal

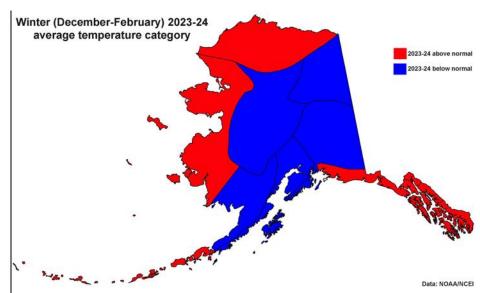
December 2023 though February 2024



Research Center

Temperatures El Niño and Winter 2023-24





Based on El Niños since mid-1970s

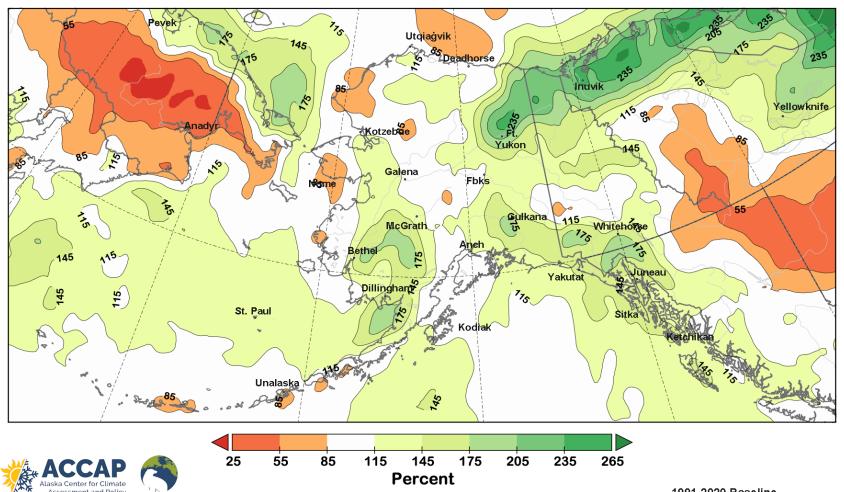
What happened this winter



Precipitation Difference from Normal

Total Precipitation: Percent of Normal

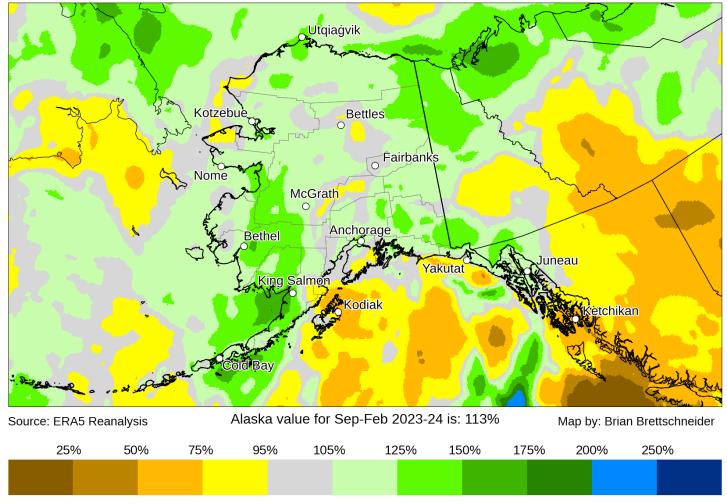
December-February, 2023-24





2023-24 Snowfall

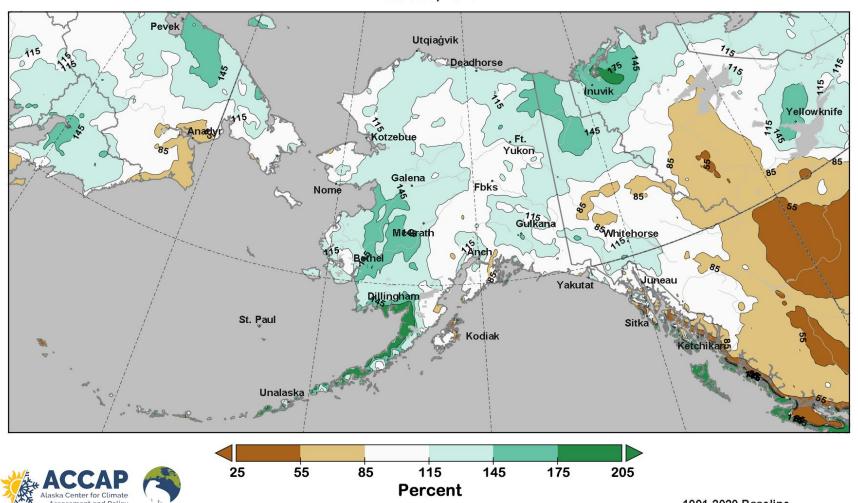
Snowfall Departure for Sep-Feb 2023-24





Snowpack analysis

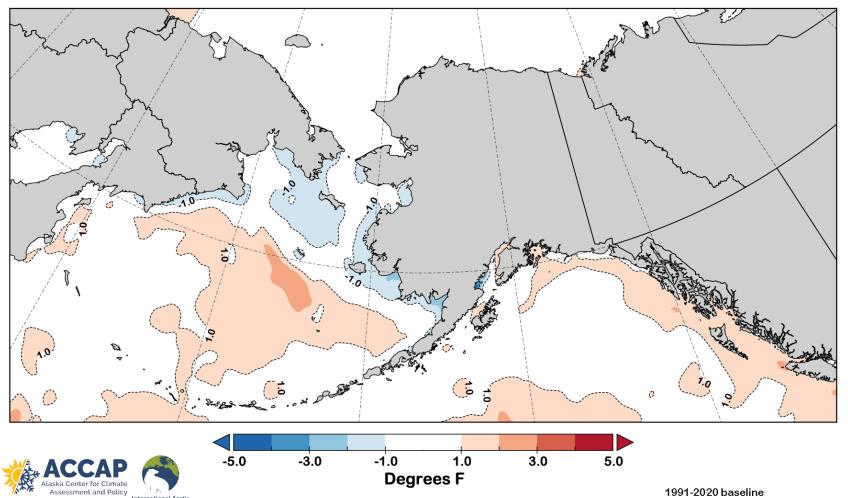
Snowpack Snow Water Equivalent: Percent of Median March 1, 2024



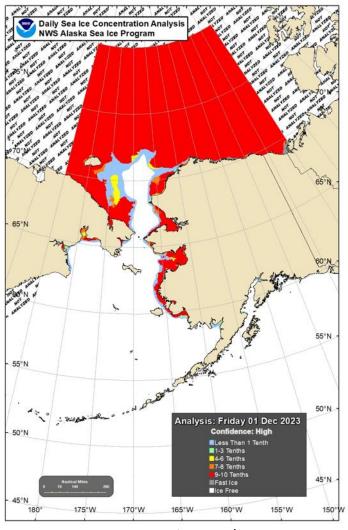
Winter 2023-24 Ocean Temperatures

Average Sea Surface Temperature Departure from Normal

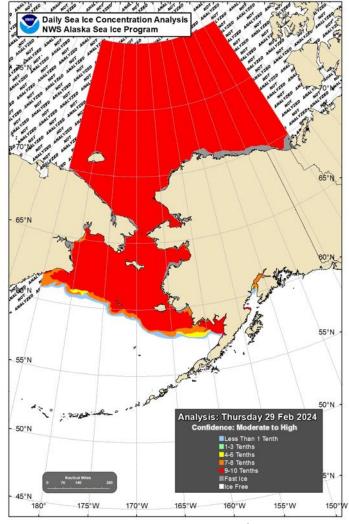
December through February, 2023-24



Alaska Sea Ice Extent: Winter 2023-24



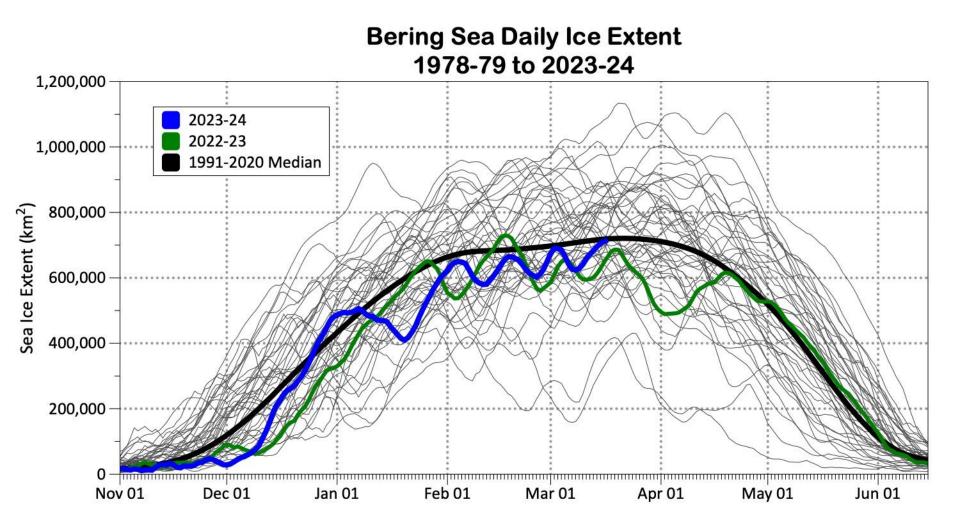
December 1st



February 29th



Bering Sea Ice Extent in Context





Data source: NSIDC Sea Ice Index, Version 3 Updated through March 17, 2024

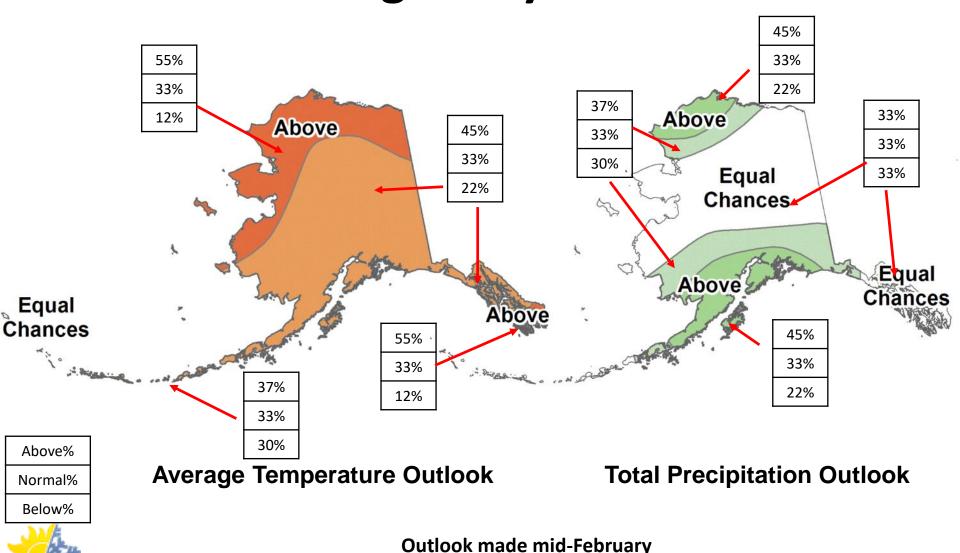
Spring 2024 Outlooks

- Alaska Outlooks
 - NOAA/Climate Prediction Center
- Arctic Sea Ice Experimental Outlook
 - NOAA/Climate Prediction Center





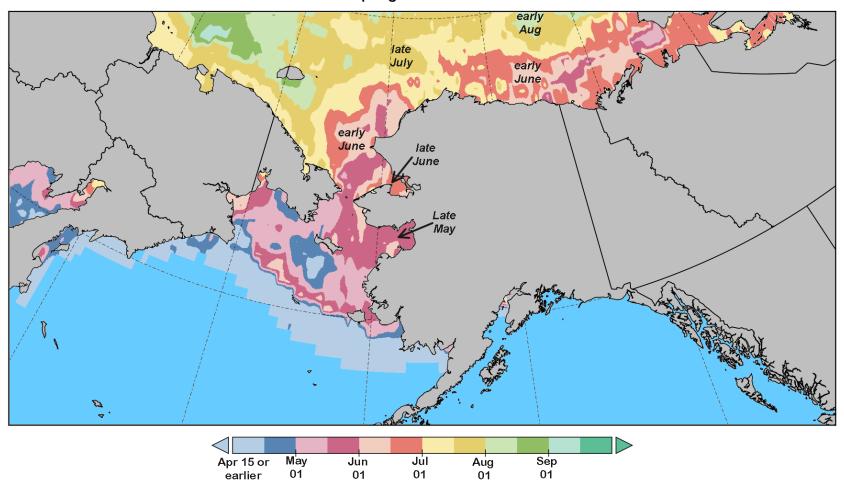
NOAA/NWS Climate Prediction Center March through May 2024 Outlook



Spring/Summer 2024 Sea Ice Outlook

First date with open water

Spring/Summer 2024



Thanks very much!





Juneau, Alaska Jan 16, 2024