



LEO Alaska Webinar

Spring 2022 Climate Review and Summer 2022 Outlook

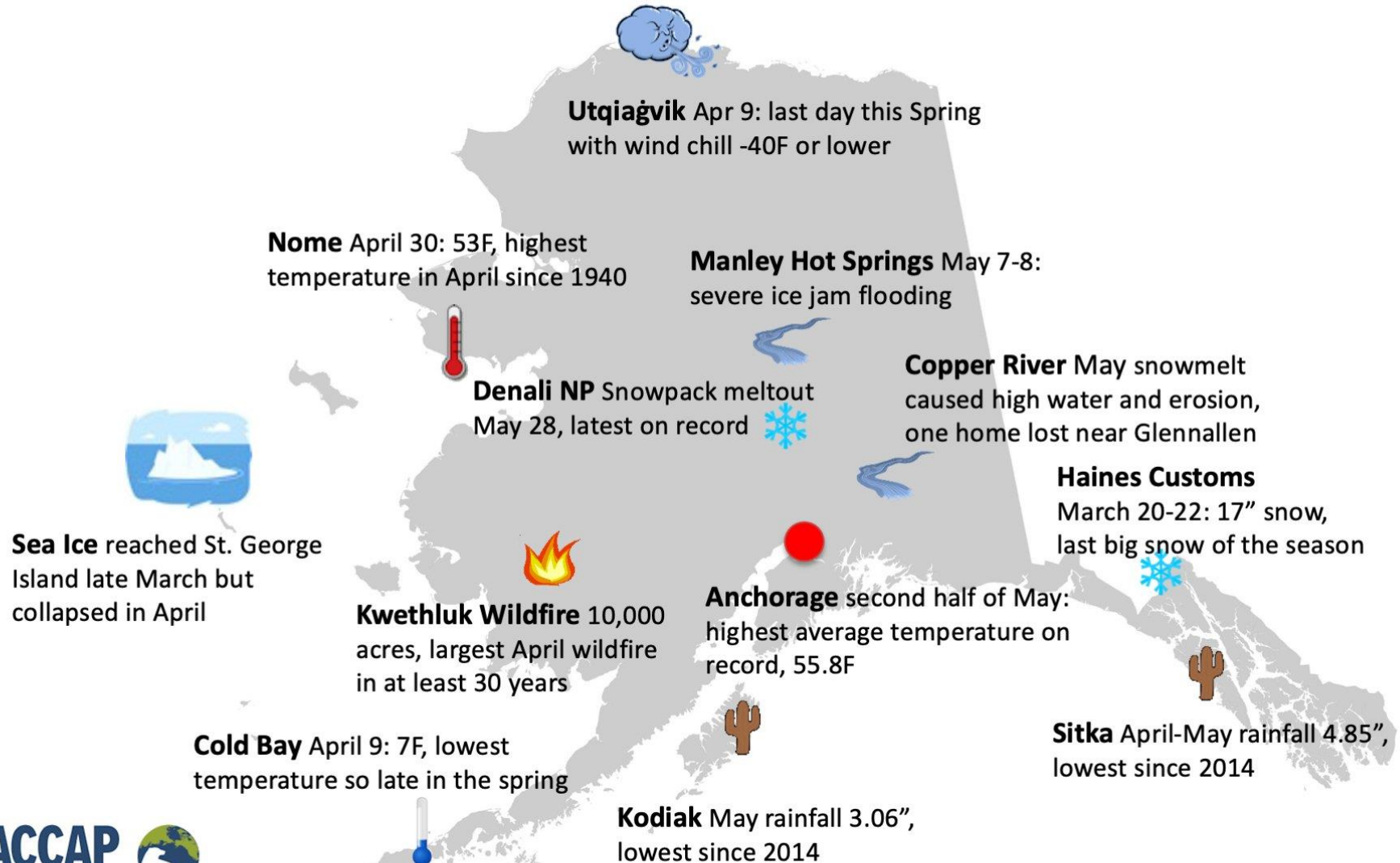
Rick Thoman

Alaska Center for Climate Assessment and Policy
University of Alaska Fairbanks



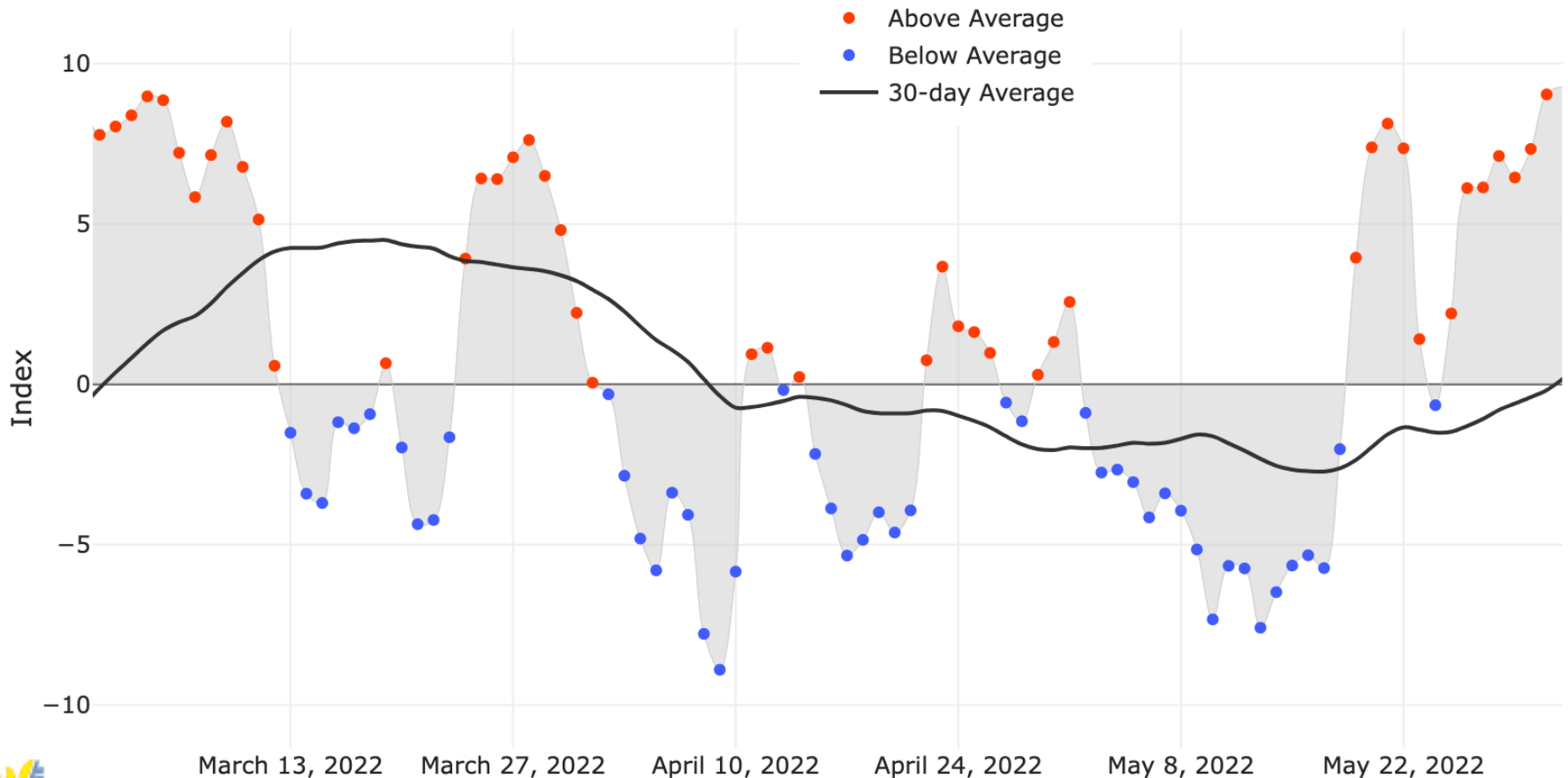
June 14, 2022
rthoman@alaska.edu

Spring 2022 Alaska Weather & Climate Highlights



Alaska Daily Temperature Index

Alaska Statewide Temperature Index
March 1-May 31, 2022

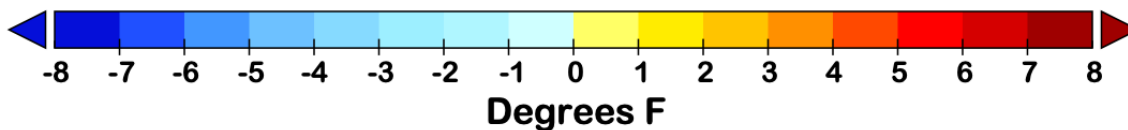
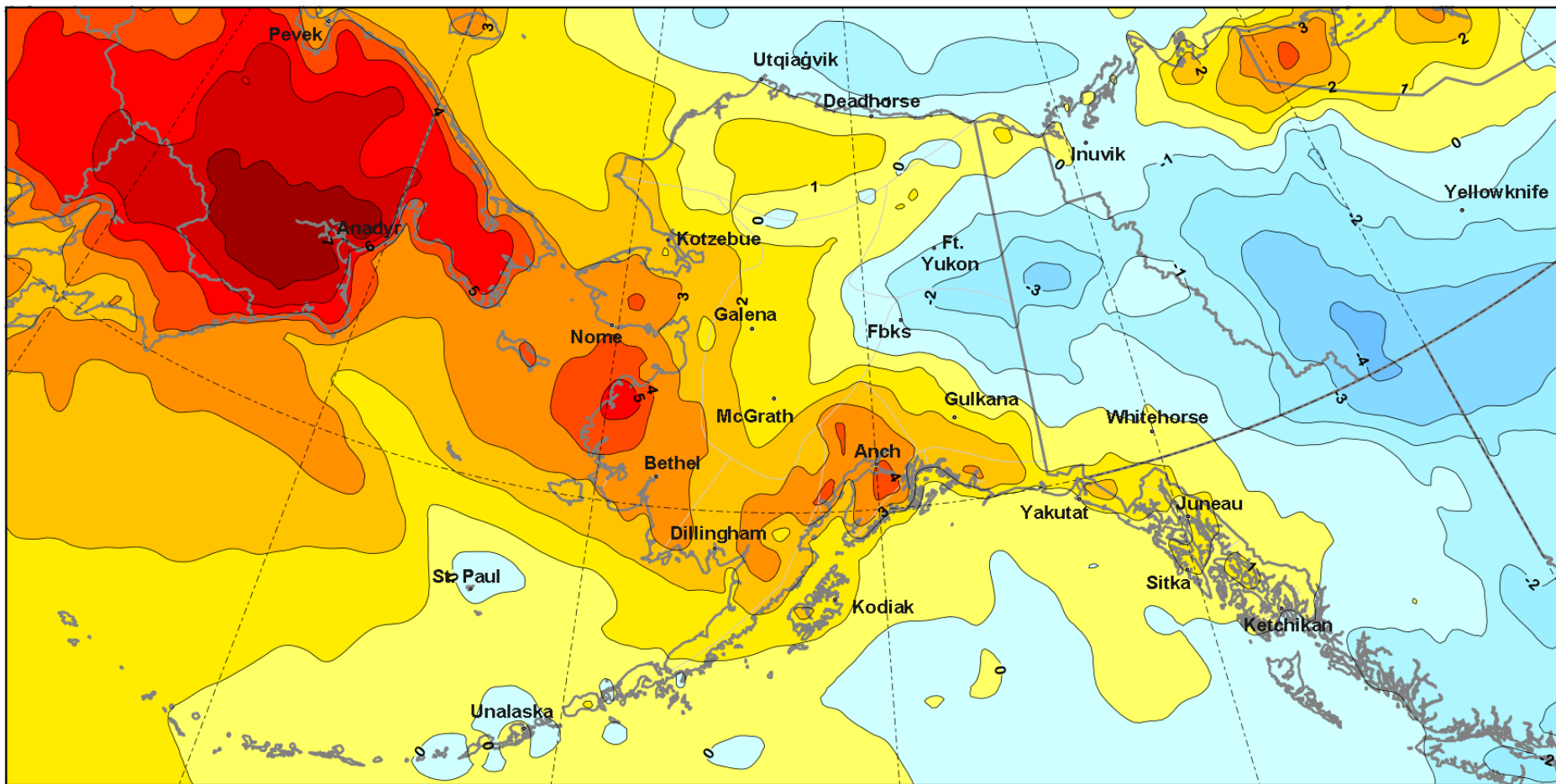


Online: <http://accap.uaf.edu/tools/statewide-temperature-index>



Average Temperature: Departure from Normal

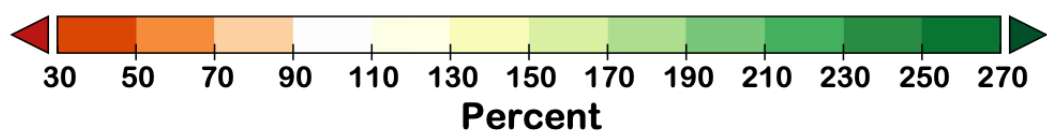
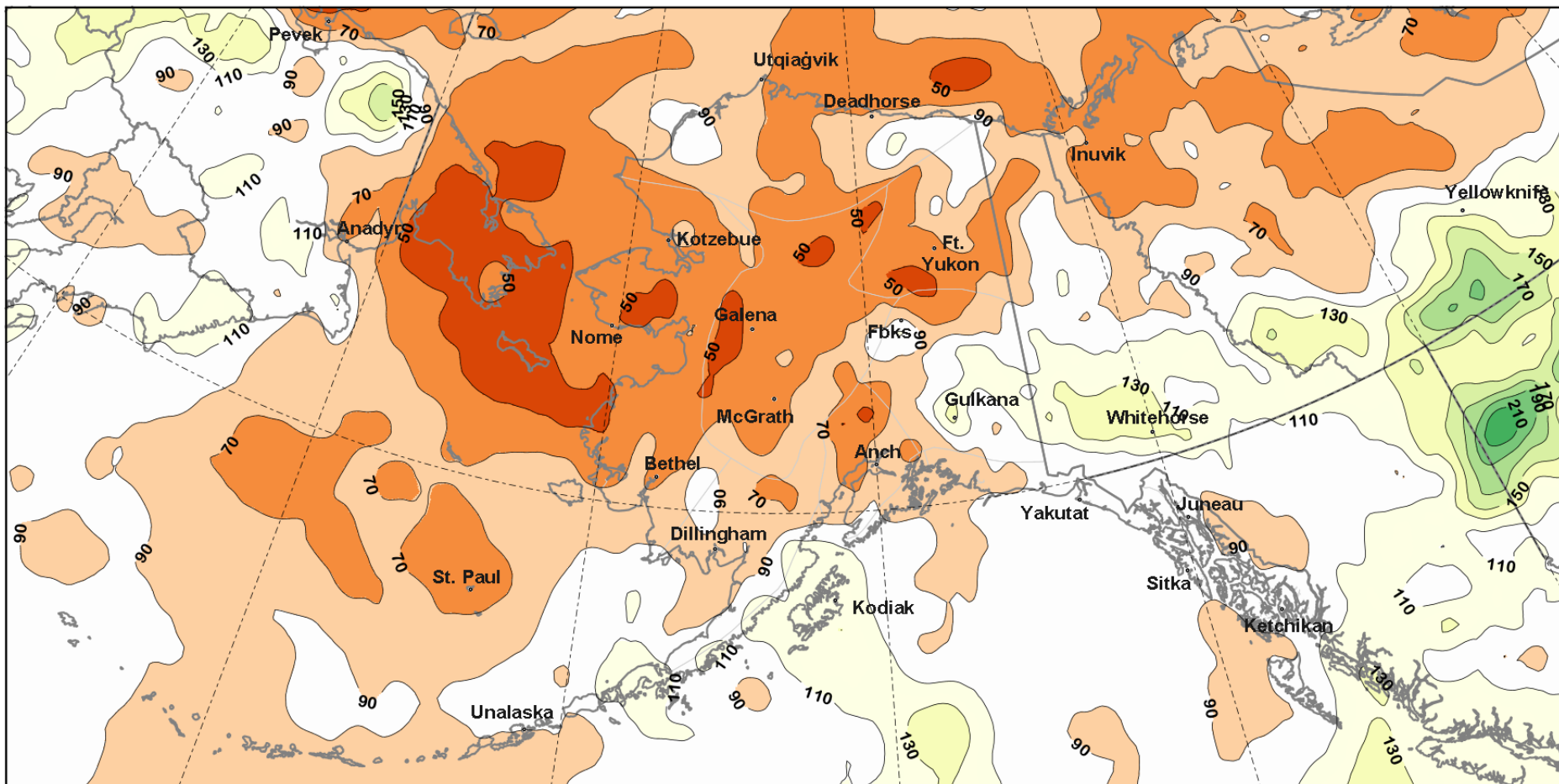
Spring (March through May) 2022



1991-2020 Baseline
ERA5 courtesy of ECMWF/Copernicus

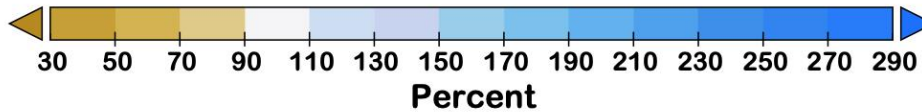
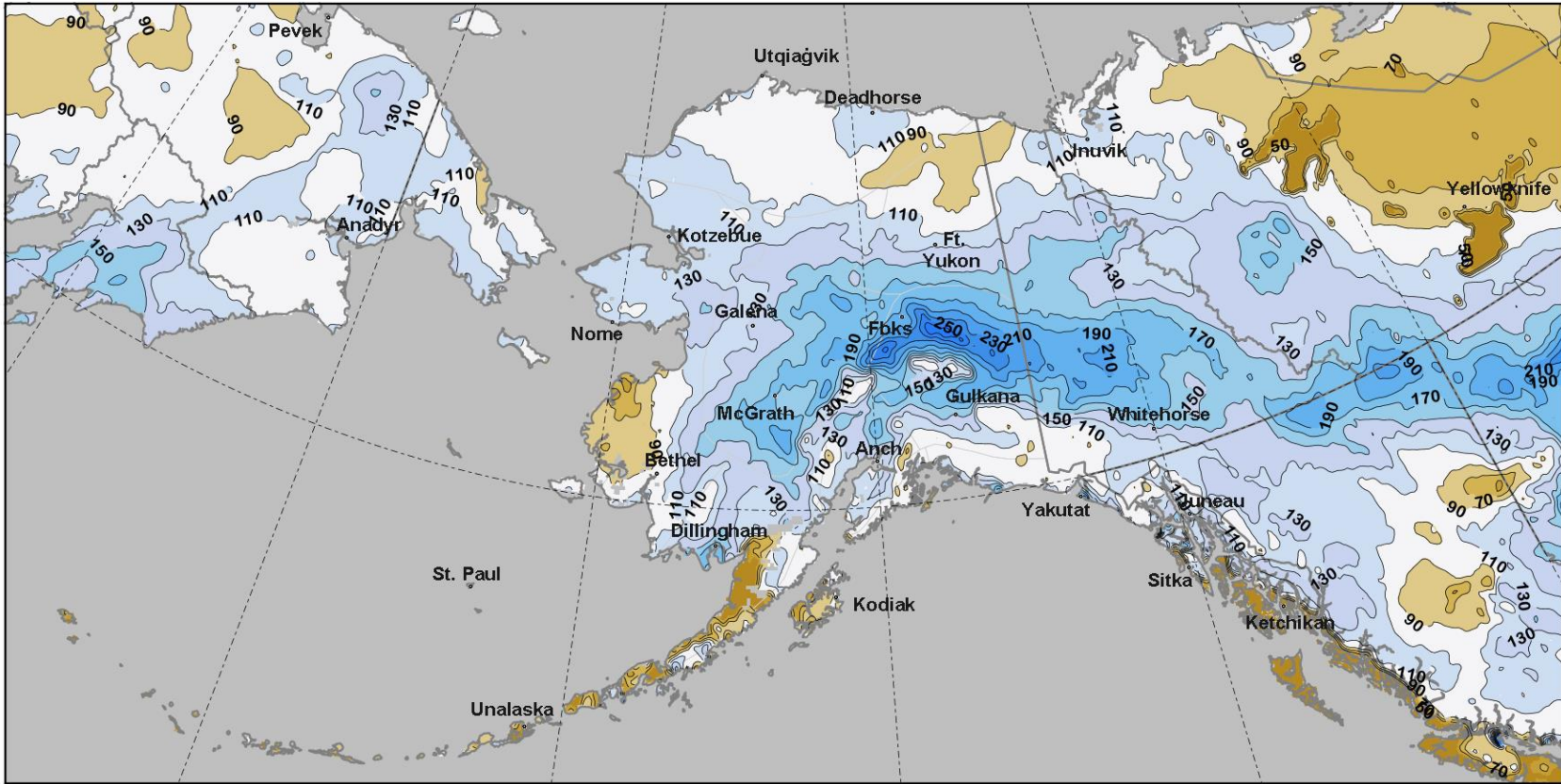
Total Precipitation: Percent of Normal

Spring (March through May) 2022

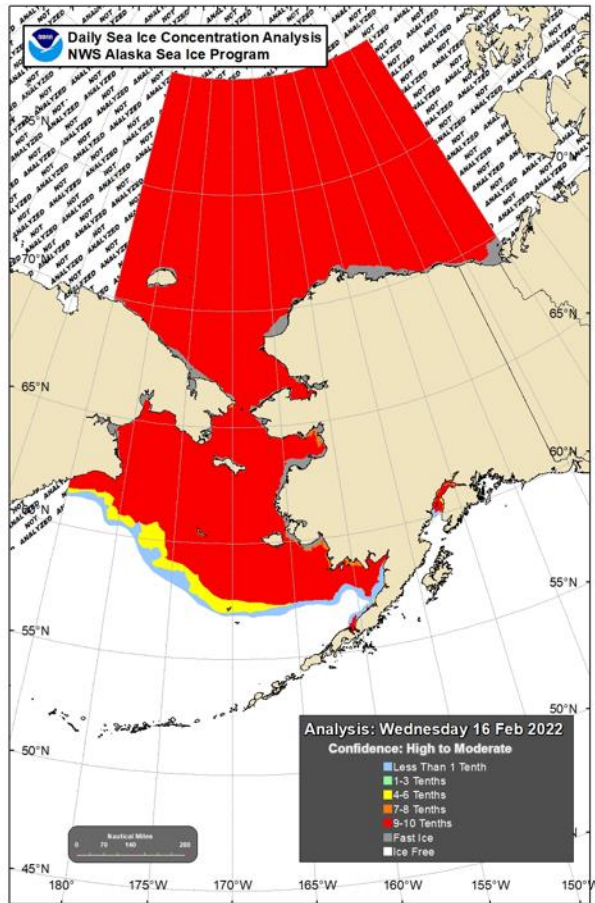


Spring Snowpack

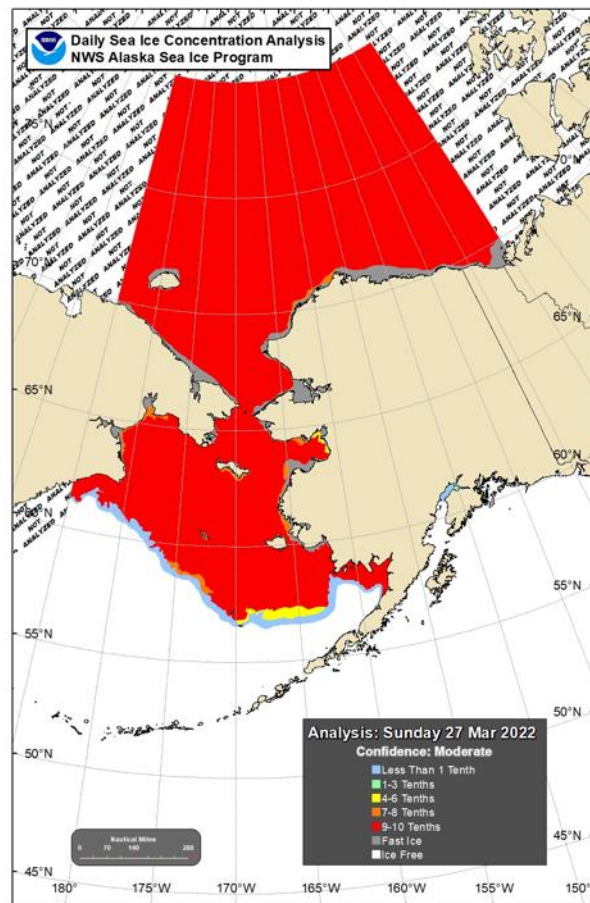
Snowpack: Snow Water Equivalent Percent of Median
March 2022



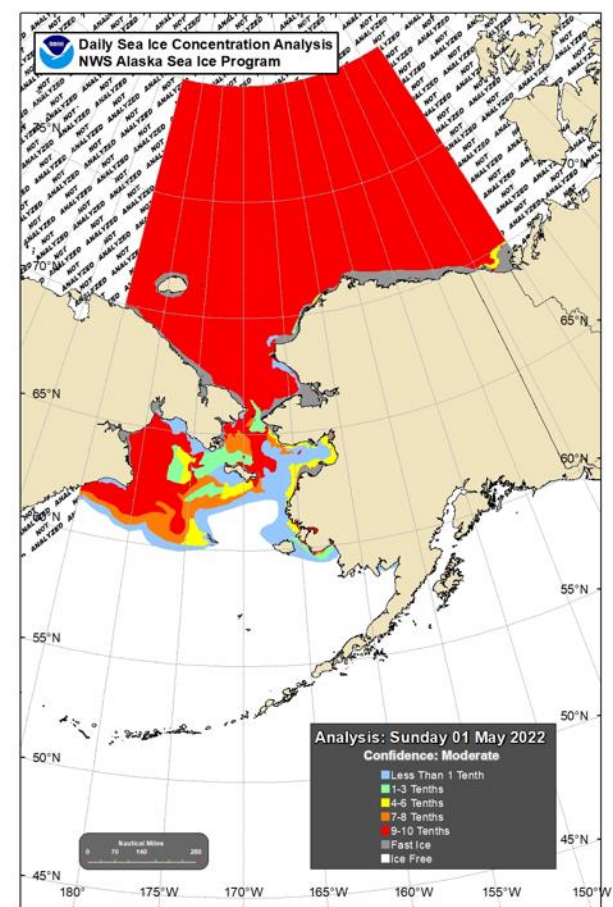
Alaska Ice Extent: Spring 2022



February 16
Highest extent



March 27
Ice to St. George

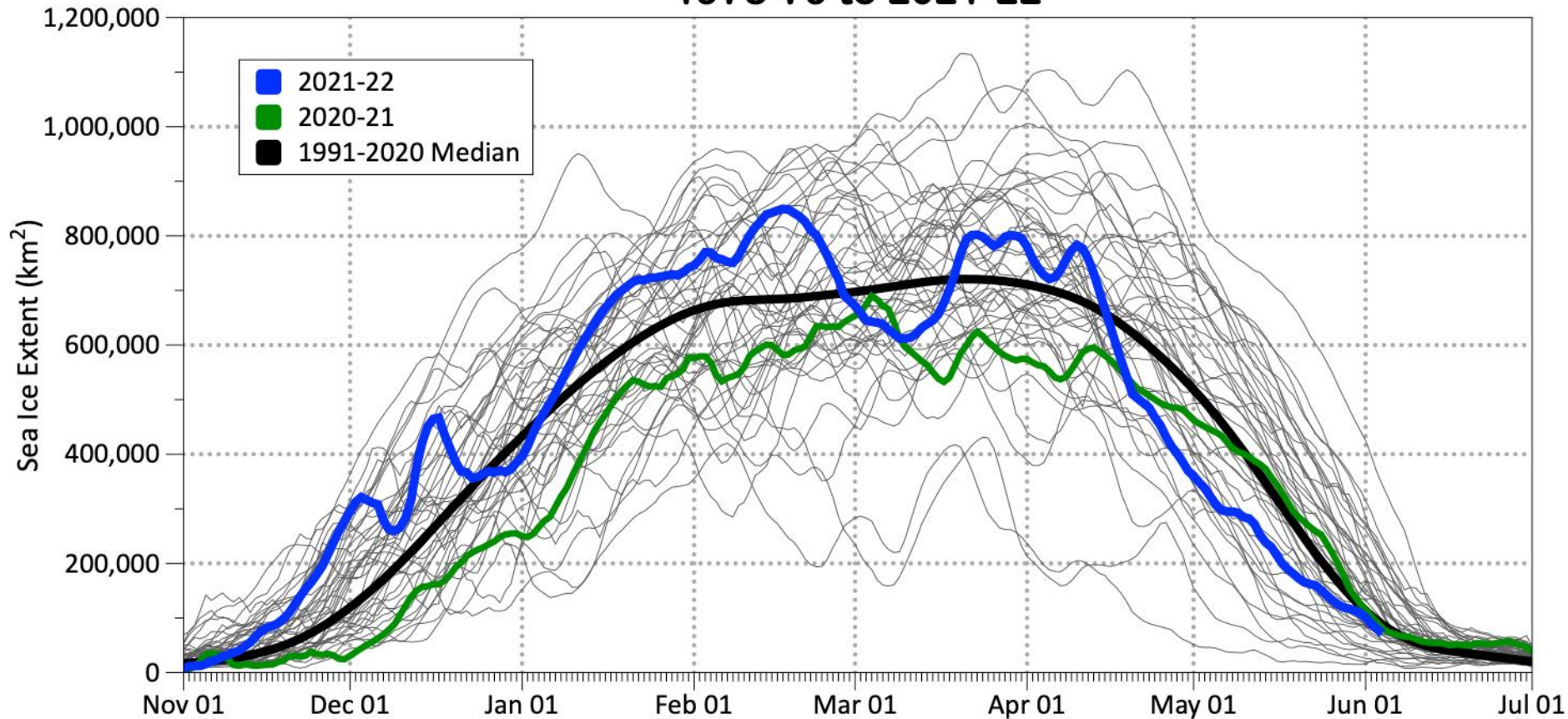


May 1st
Ice Collapse



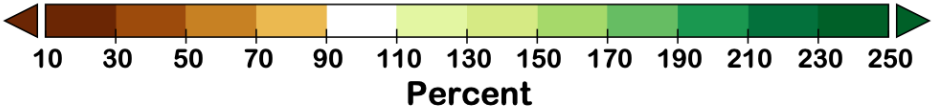
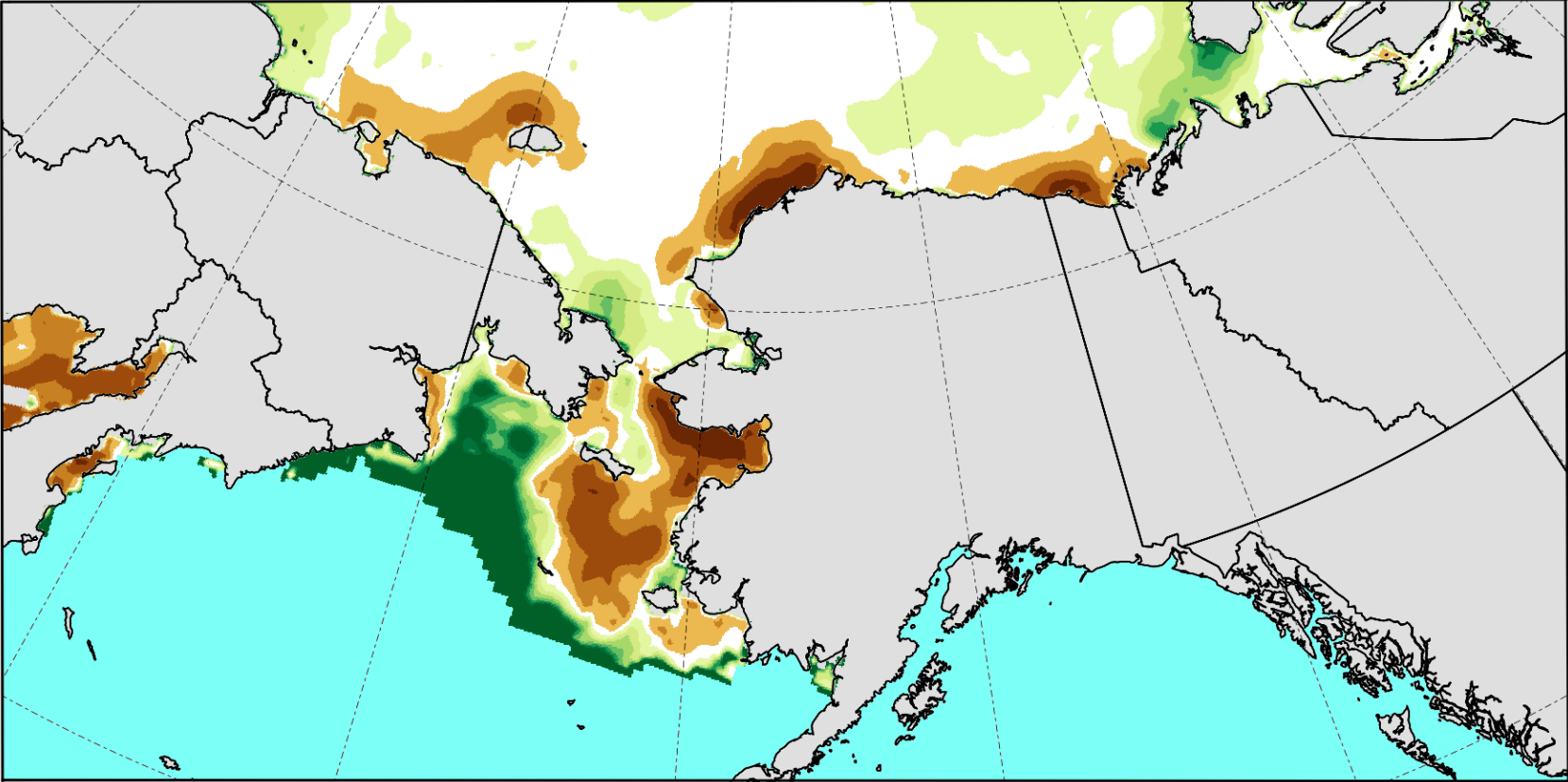
Bering Sea Ice Extent

Bering Sea Daily Ice Extent 1978-79 to 2021-22



End of March Sea Ice Thickness

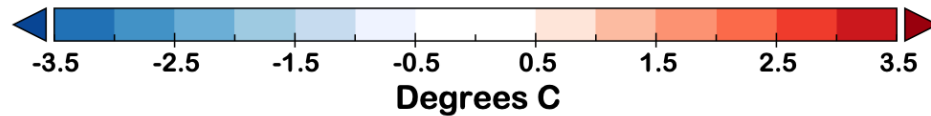
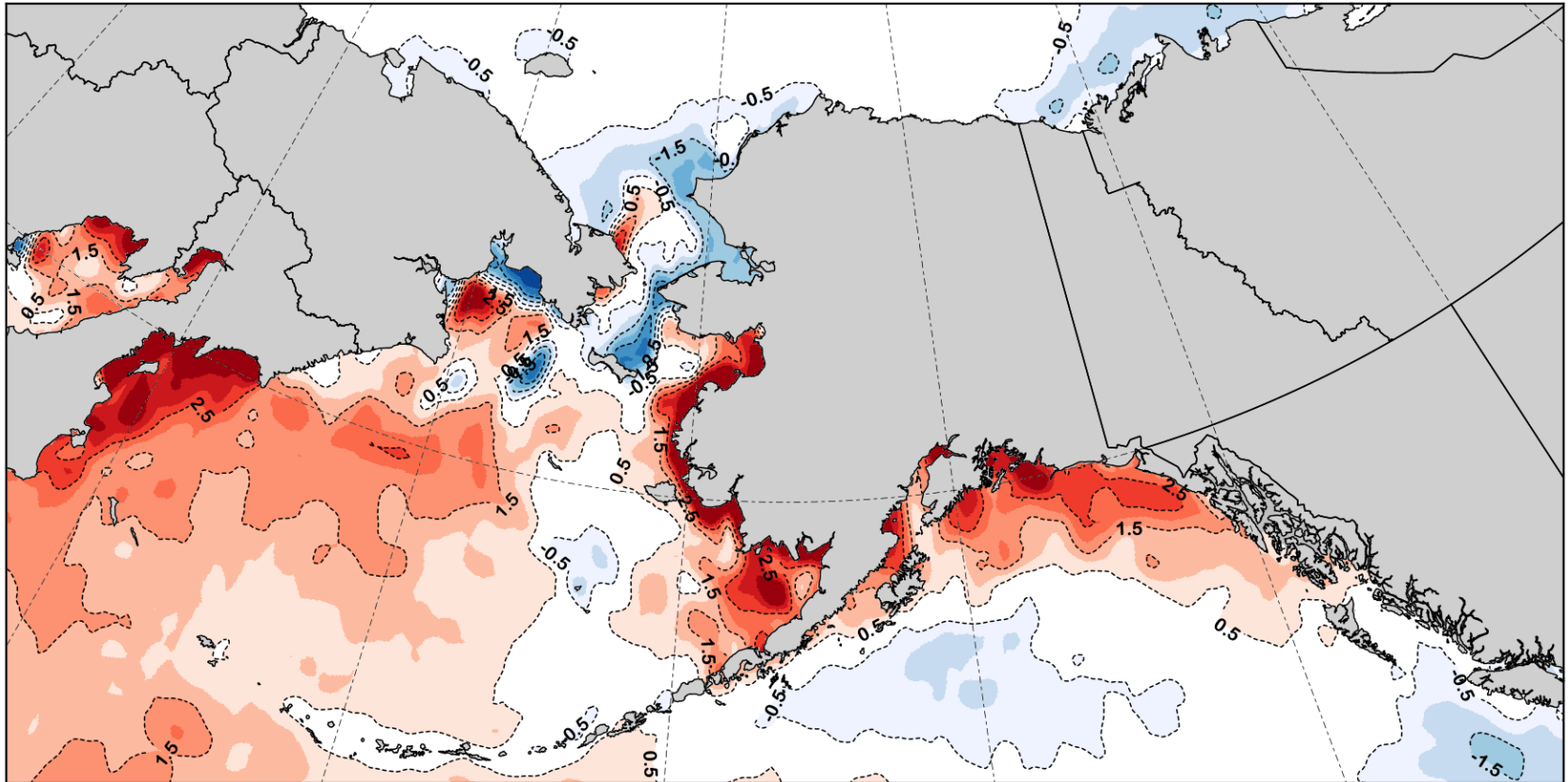
Sea Ice Thickness: Percent of Median
March 25-31, 2022



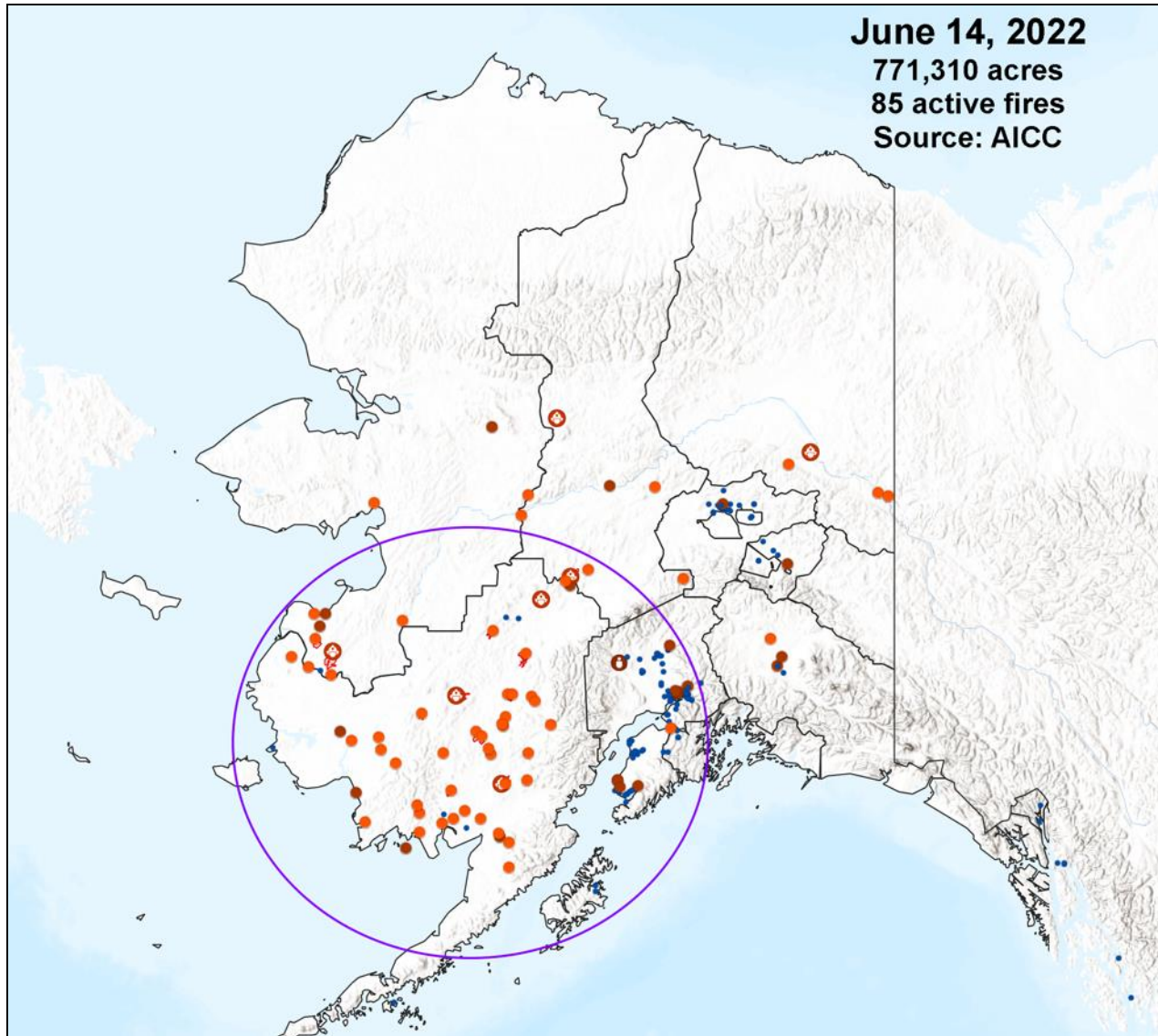
Ocean Surface Temperatures

Daily Sea Surface Temperature

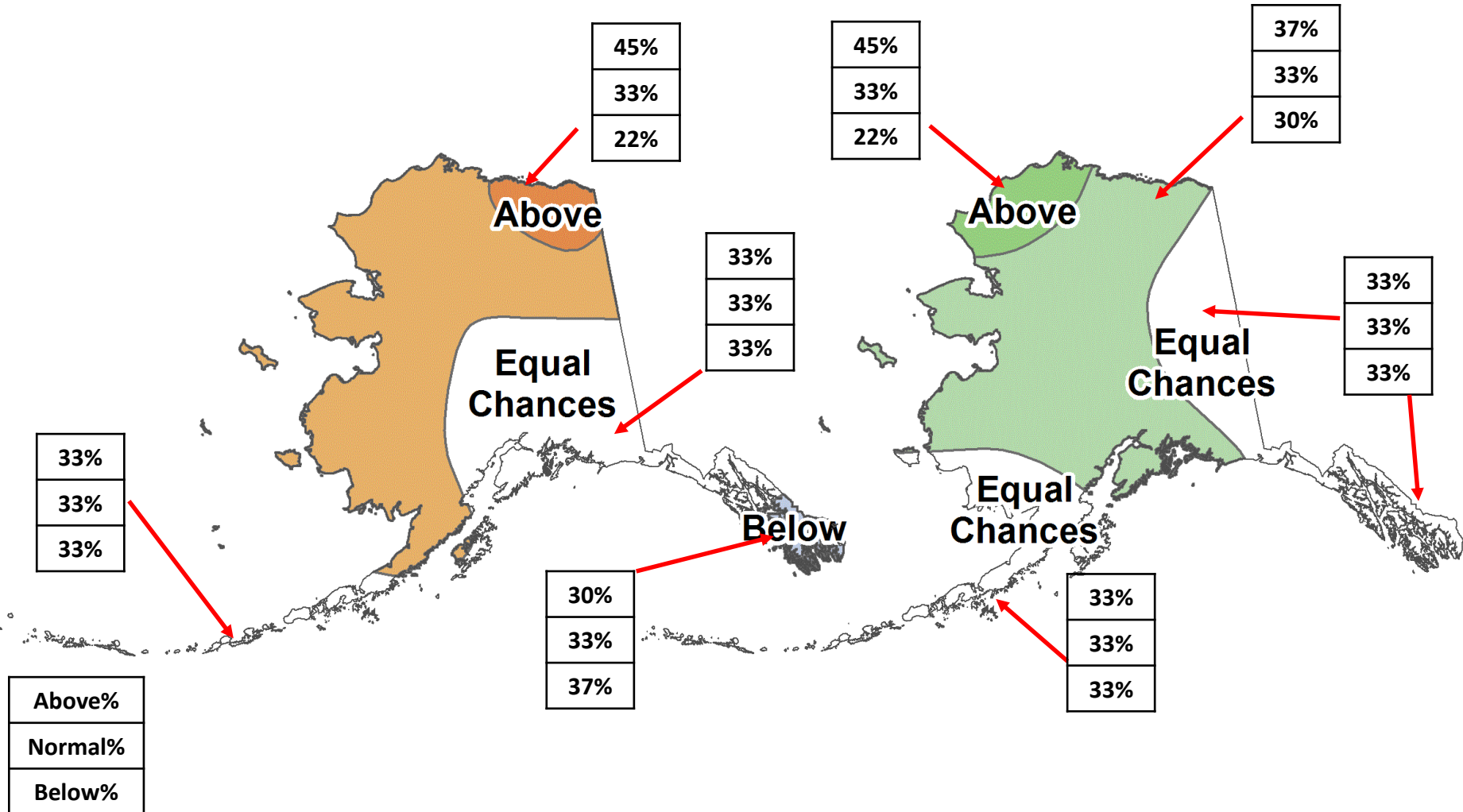
June 2-8, 2022



Current Wildfire Situation

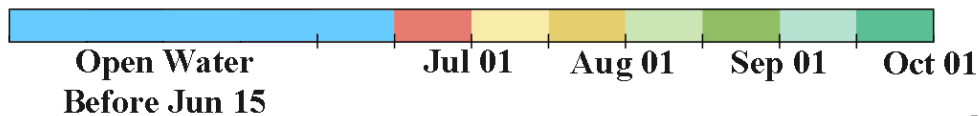
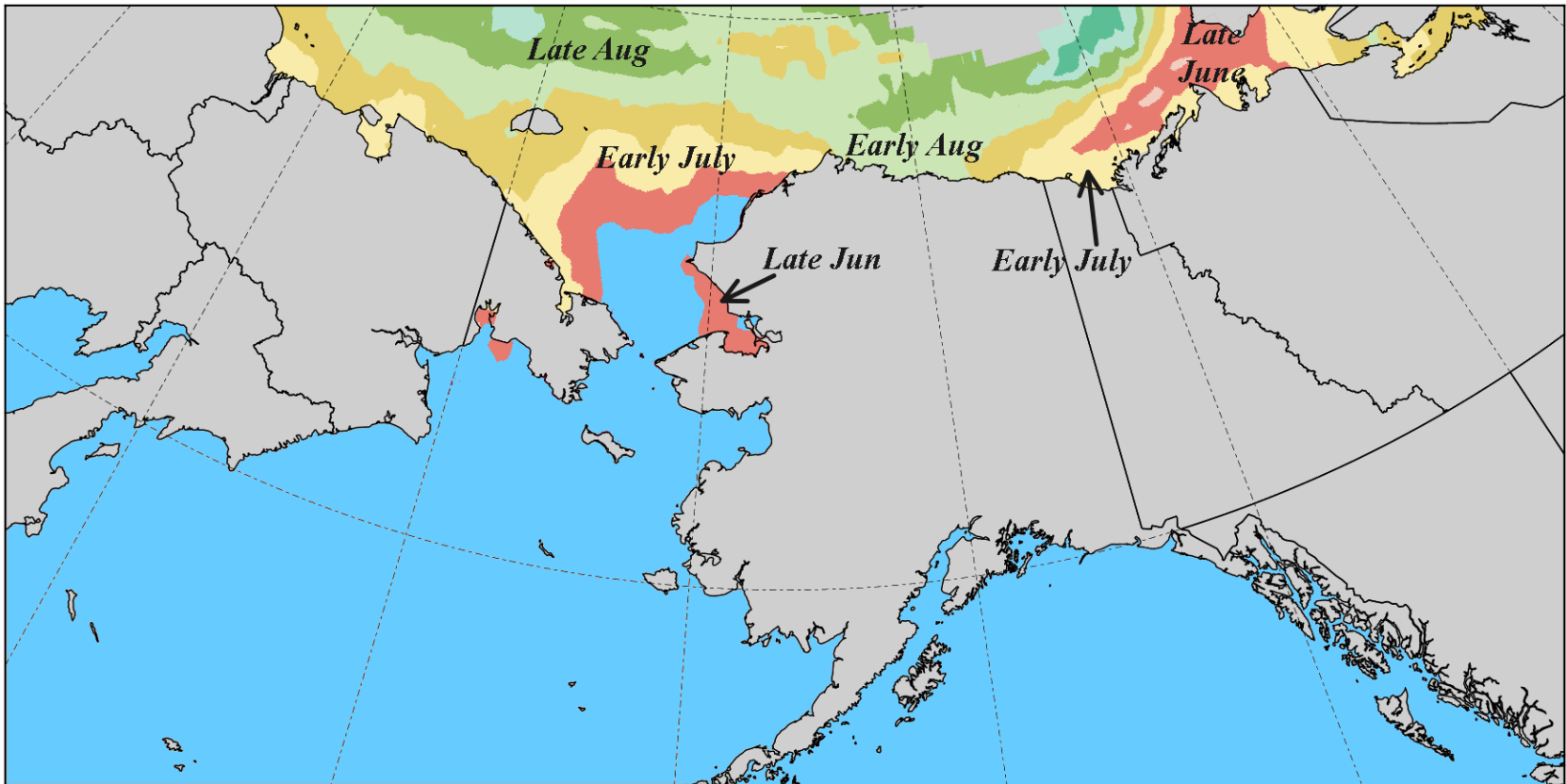


CPC June-August 2022 Outlook



Sea Ice Break-up Outlook

First Date Sea Ice Concentration Less than 15 Percent
Spring/Summer 2022



Thanks very much



Manley Hot Springs, May 7, 2022
Photo: Alaska State Troopers

