# Kodiak Regional Advisory Council Spring Climate Outlook

Brian Brettschneider, PhD National Weather Service – Alaska Region

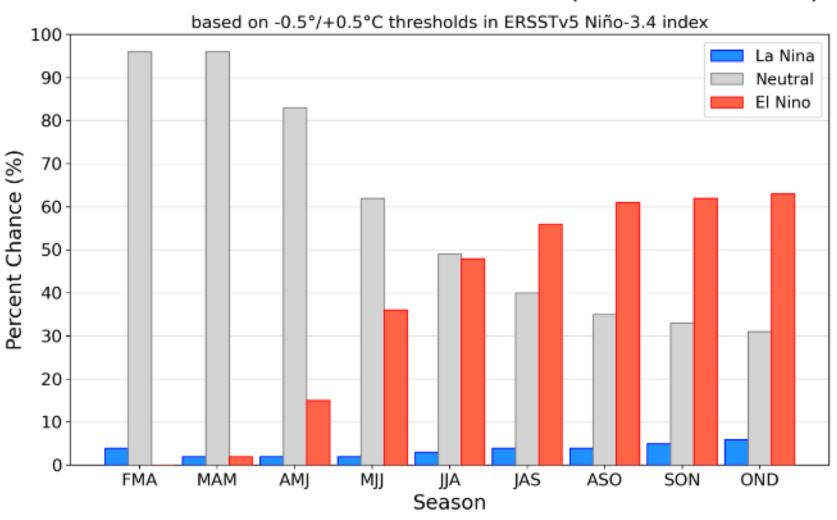


brian.brettschneider@noaa.gov

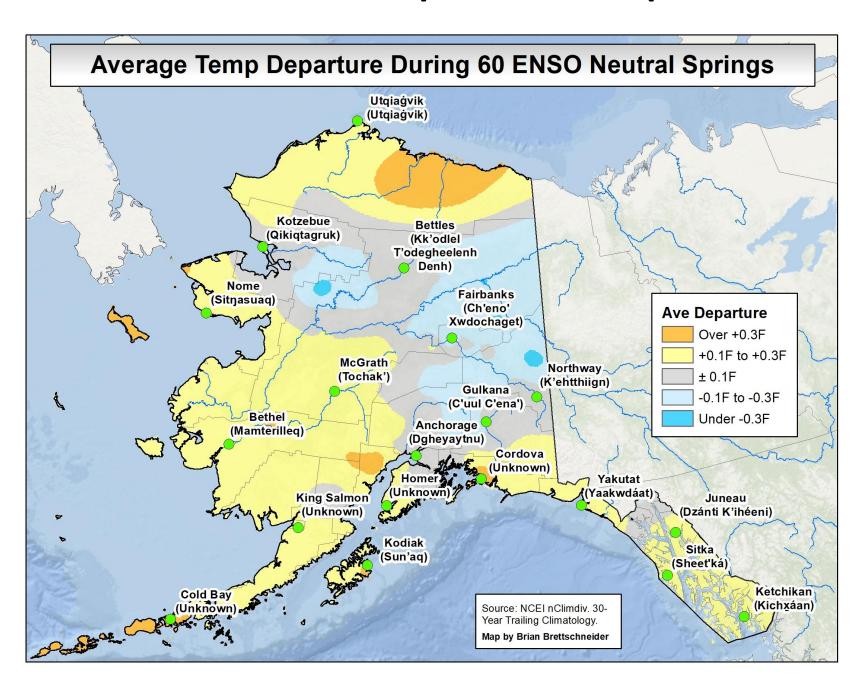


#### **ENSO Often Drives the Seasonal Outlooks**

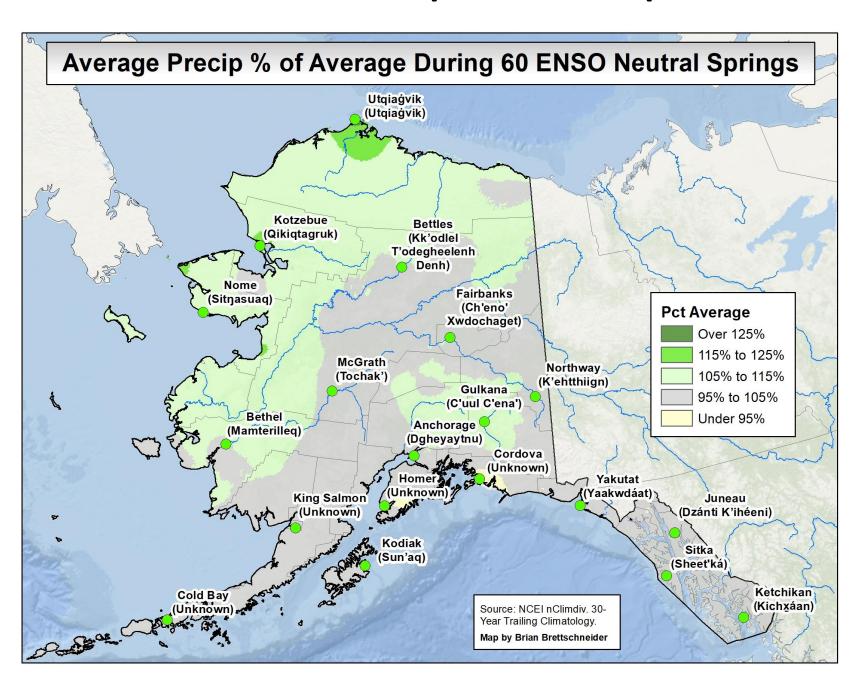
Official NOAA CPC ENSO Probabilities (issued Mar. 2023)



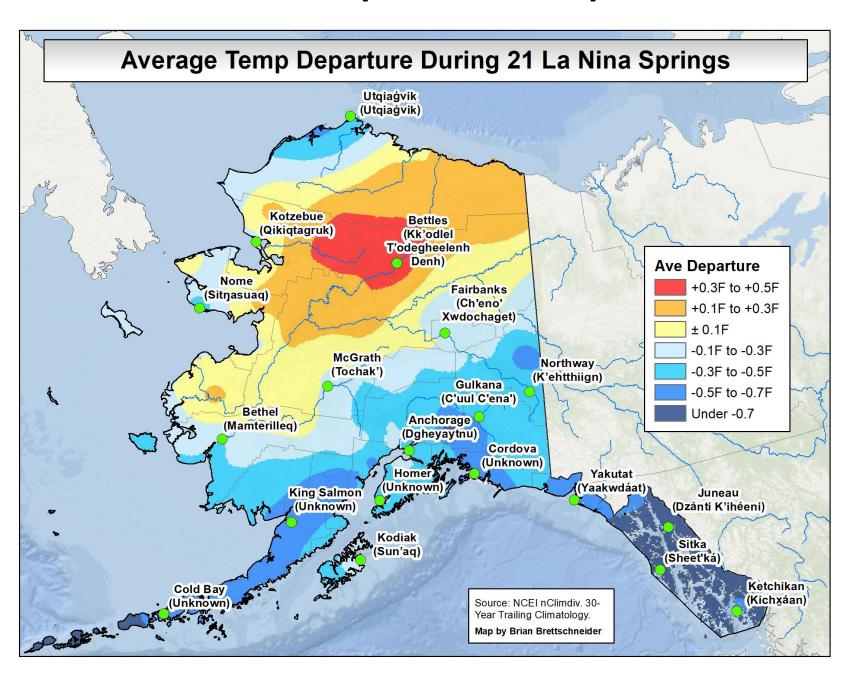
#### **ENSO Neutral Temperature Composite**



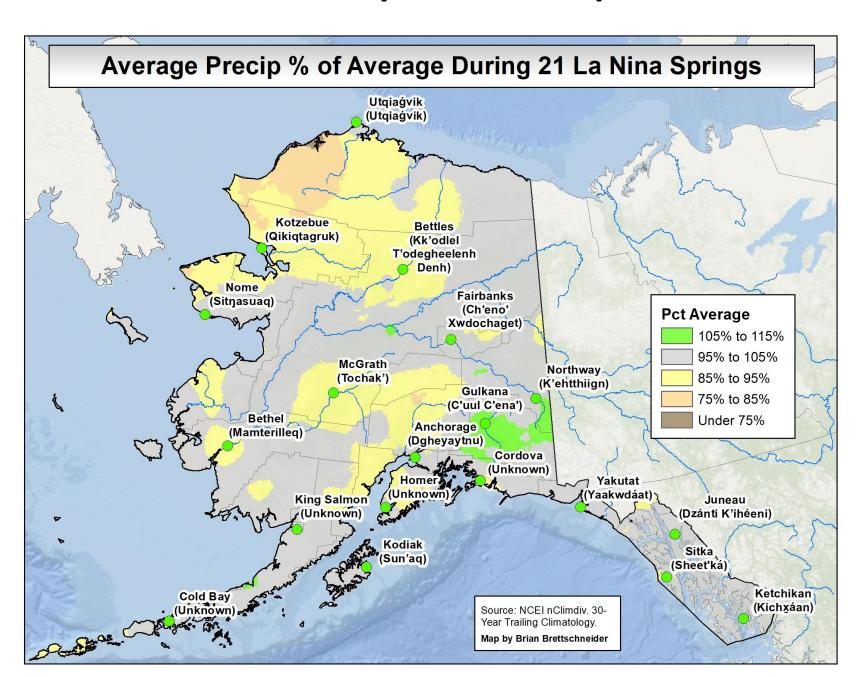
#### **ENSO Neutral Precipitation Composite**



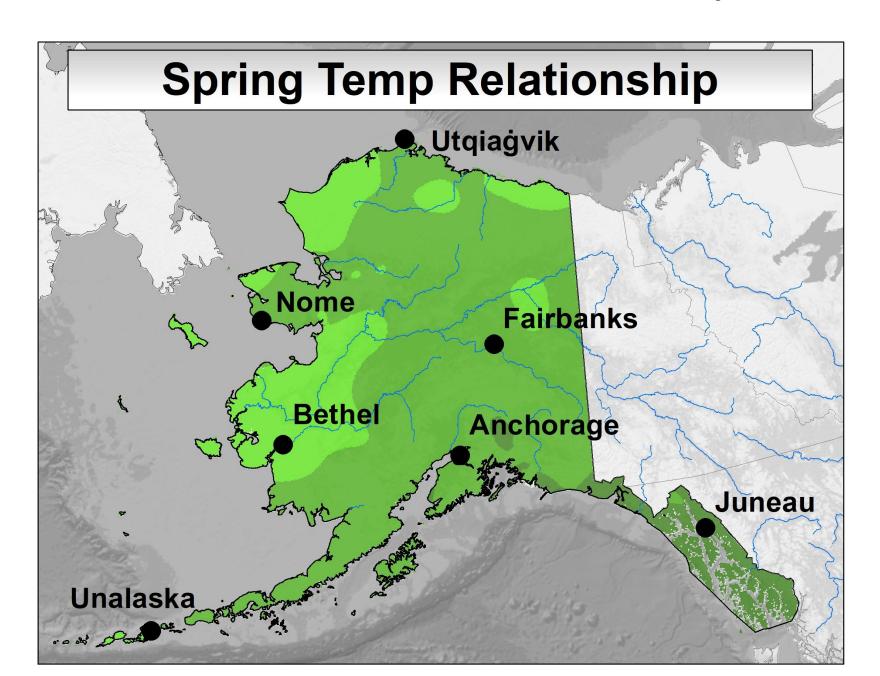
#### La Nina Temperature Composite



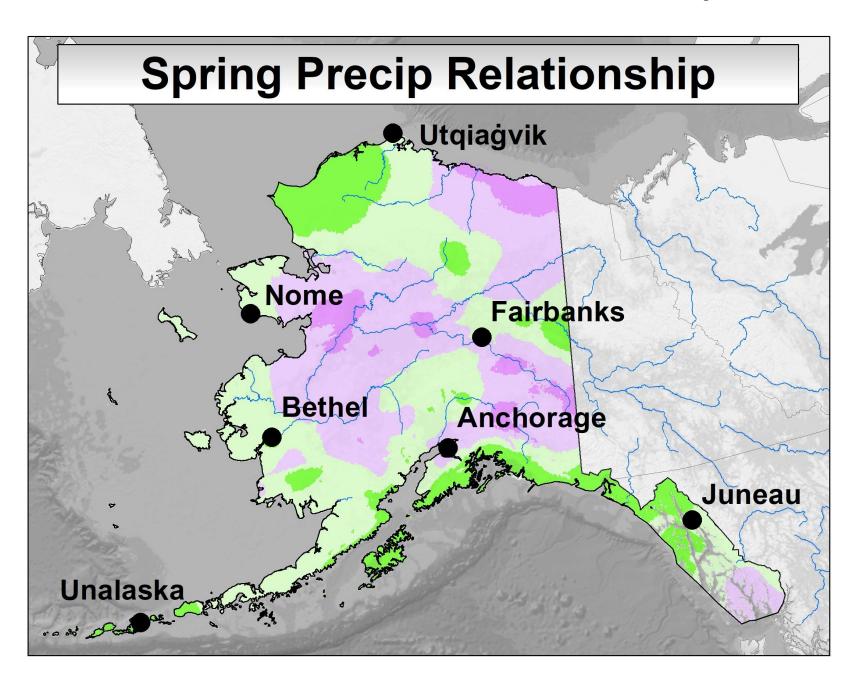
#### La Nina Precipitation Composite

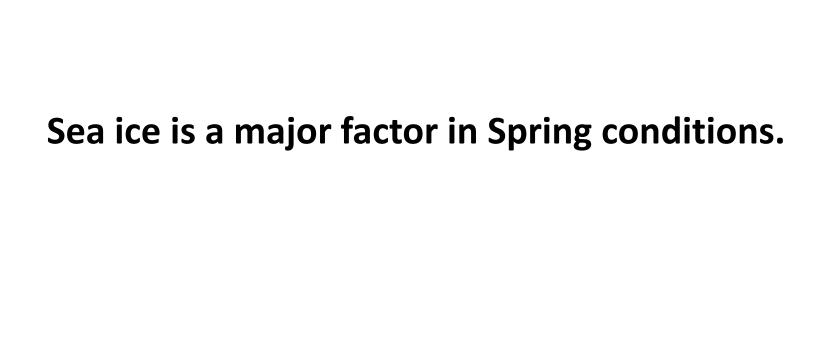


# **ENSO Status Correlations With Temps**



#### **ENSO Status Correlations With Temps**

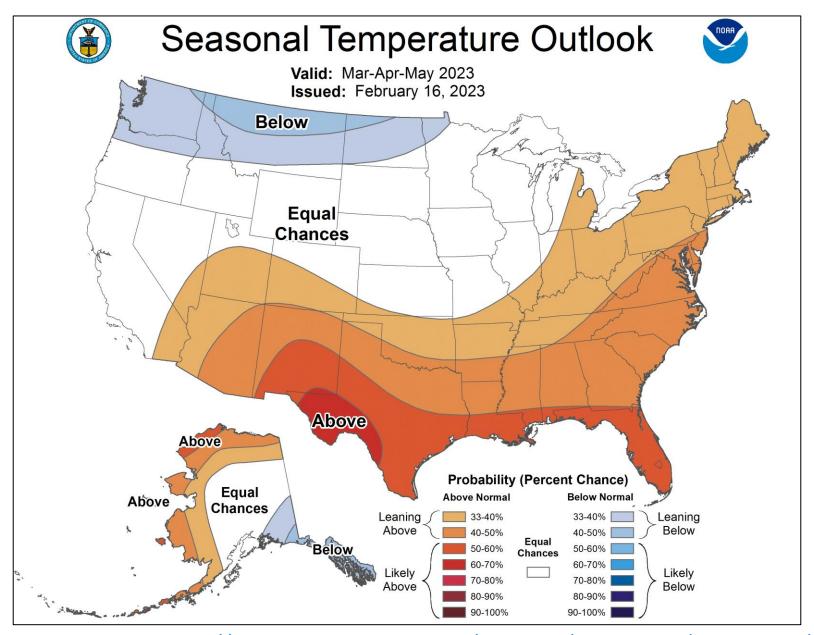




#### **SEA ICE EXTENT – MARCH 29** 100% 100% 100% 100% 100% OQK 2017 2018 2020 2022 2019 100% 100% 986K Chukchi Sea Beaufort Sea 885K sq. km. 100% 100% sq. km. **RUSSIA** 2015 2016 **ALASKA** Bering Sea 100% 100% 736K sq. km. 919K 2005-2022: AVERAGE 2023 2014 2013 100% 100% 100% 100% 100% 100% 100% 100% 100% 10611 2008 2007 2009 2011

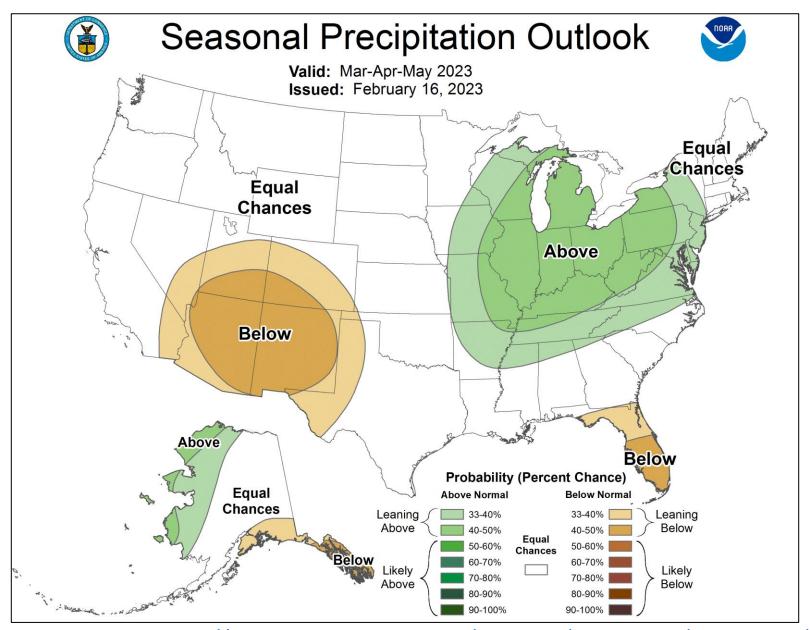
#### **Official CPC Outlooks**

#### **CPC Spring Temp Outlook Issued Feb 15, 2023**



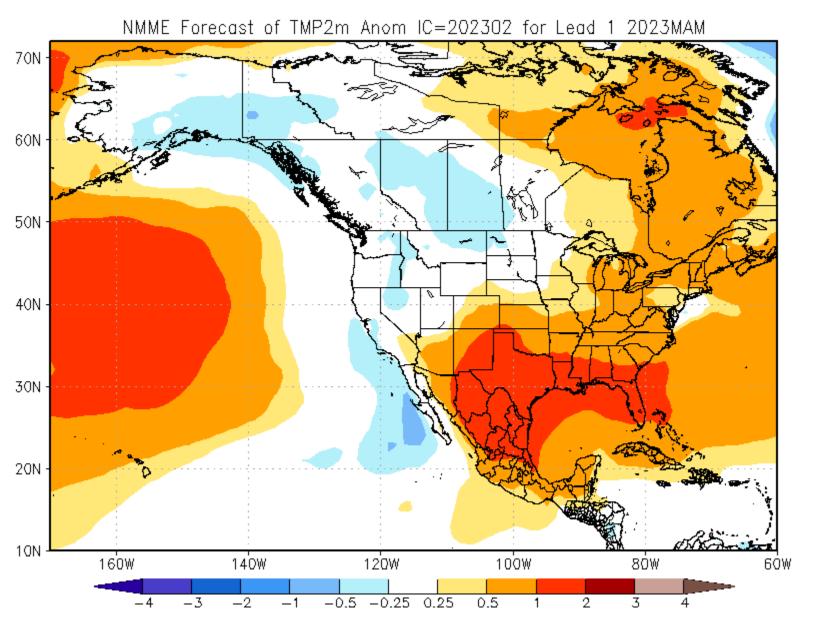
Newer Outlooks here: <a href="https://www.cpc.ncep.noaa.gov/products/predictions/long-range/">https://www.cpc.ncep.noaa.gov/products/predictions/long-range/</a>

### CPC Spring Precip Outlook Issued Feb 15, 2023

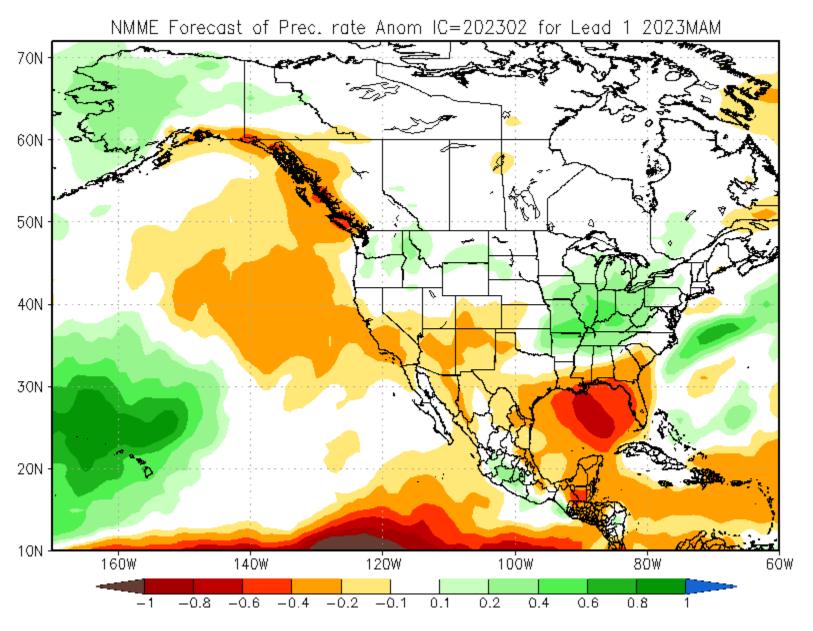


Newer Outlooks here: <a href="https://www.cpc.ncep.noaa.gov/products/predictions/long-range/">https://www.cpc.ncep.noaa.gov/products/predictions/long-range/</a>

# NMME Spring Temp Outlook Issued Feb 2023

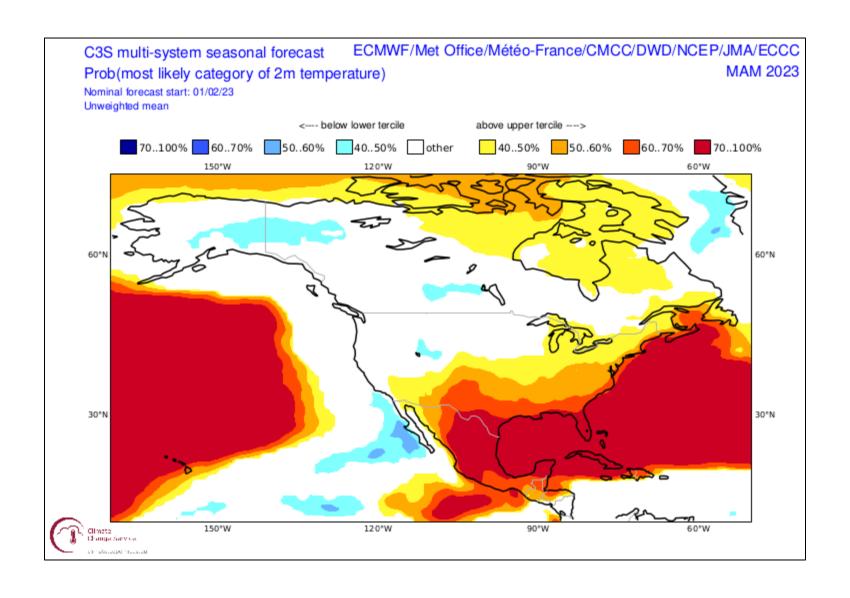


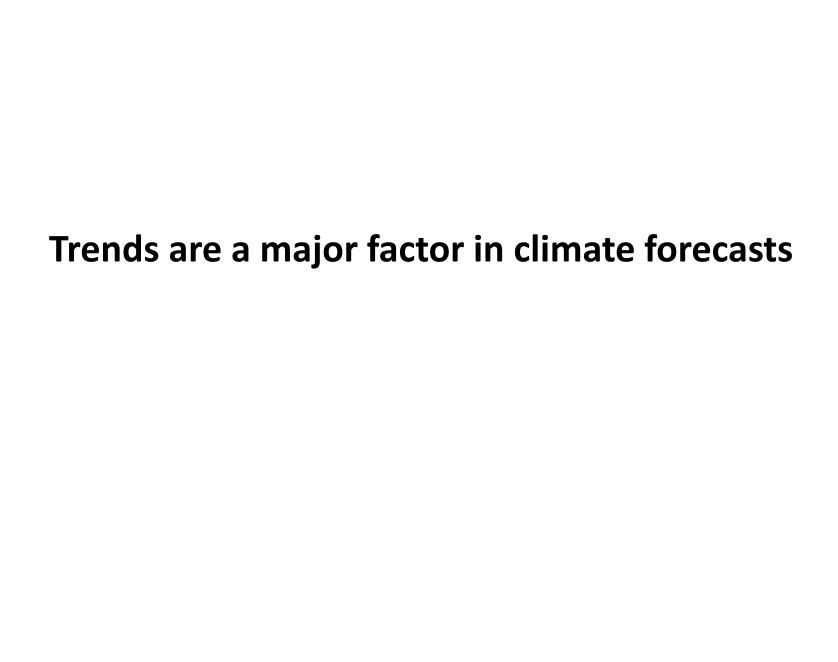
# NMME Spring Precip Outlook Issued Feb 2023



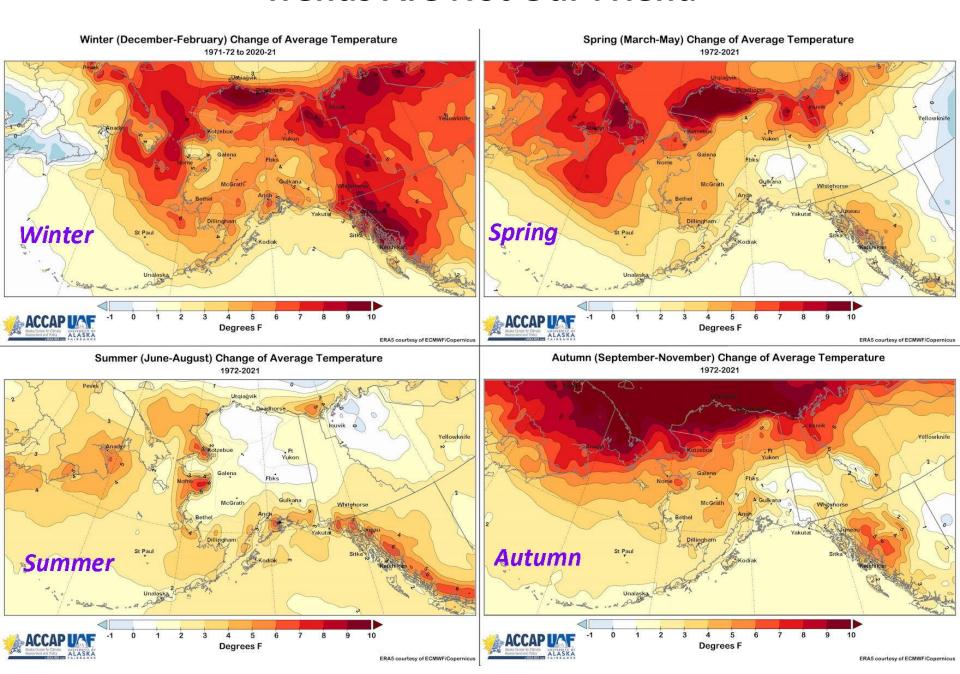
https://www.cpc.ncep.noaa.gov/products/NMME/current/images/NMME ensemble tmp2m us season2.png

#### CS3 Winter Temp Outlook Issued Jan 2, 2023

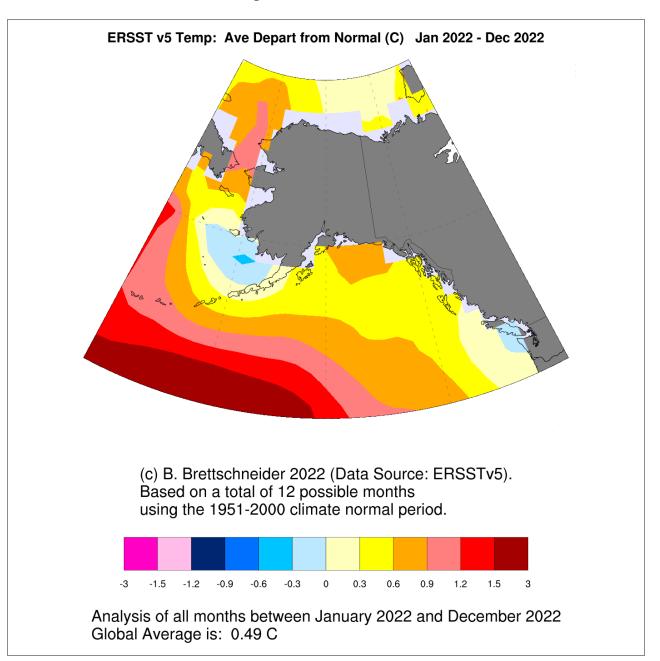




#### **Trends Are Not Our Friend**

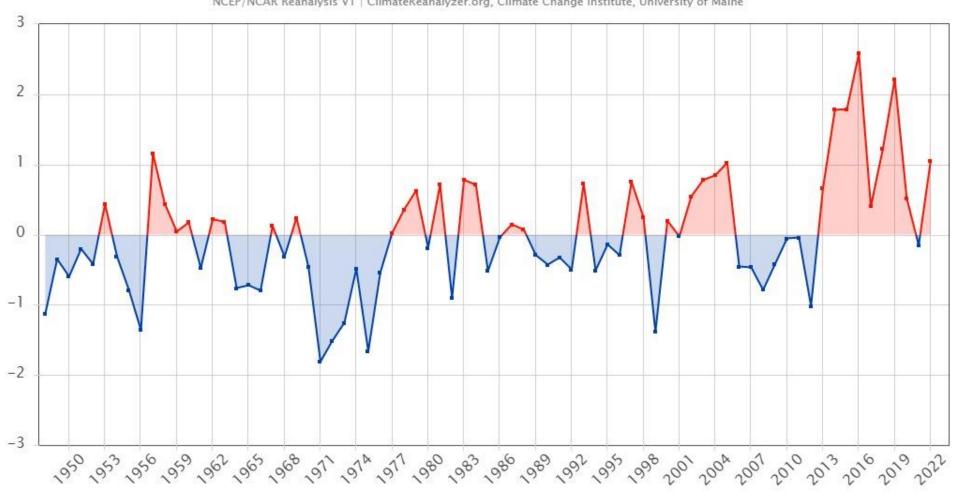


#### **Sea Surface Temps Around Alaska in 2022**



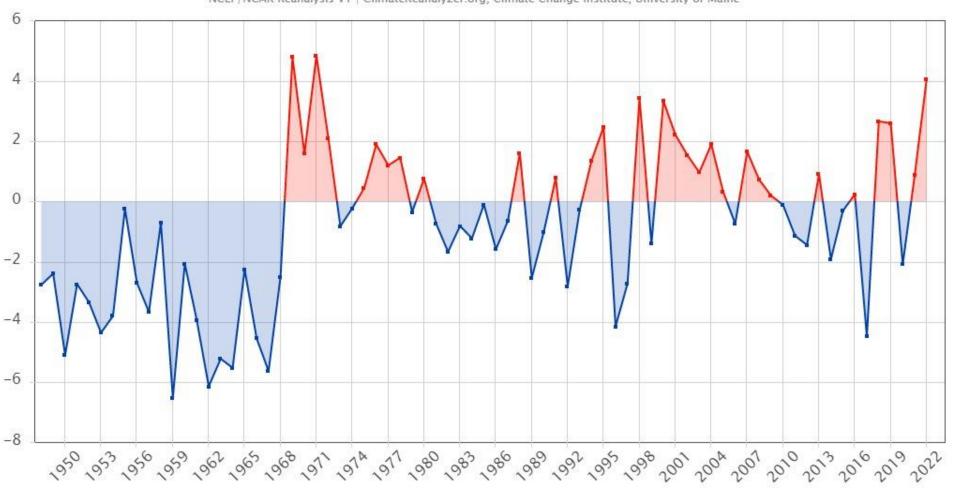
#### **Annual Trend In Temperature for Kodiak Region**

Annual 2m Temperature Anomaly (°C) [1981–2010] Specify Point (57.8°N, 152.4°W)



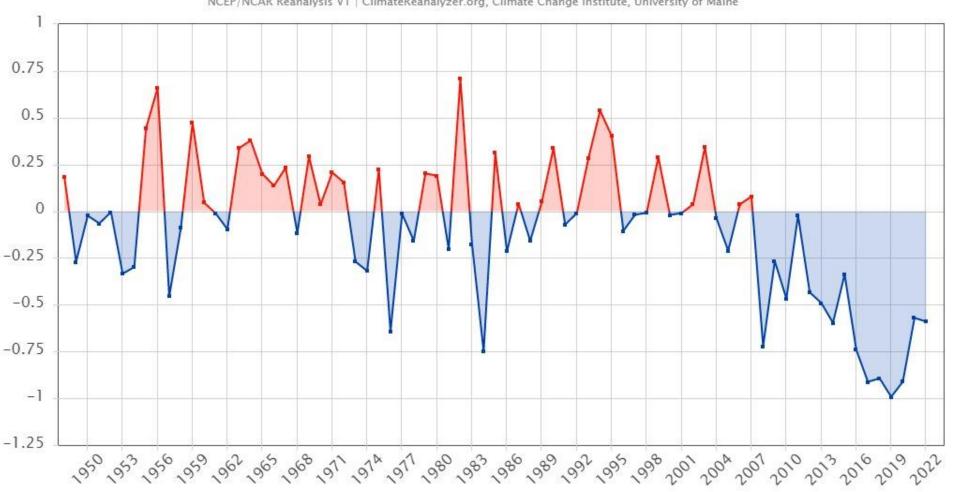
#### **Annual Trend In Cloudiness for Kodiak Region**

Annual Total Cloud Cover Anomaly (%) [1981–2010] Specify Point (57.8°N, 152.4°W)



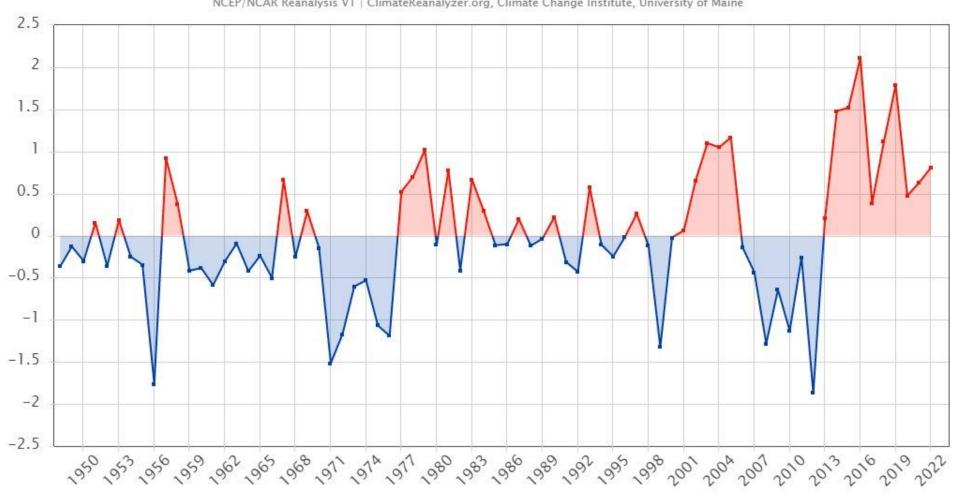
#### **Annual Trend In Wind Speed for Kodiak Region**

Annual 1000hPa Wind Speed Anomaly (m/s) [1981-2010] Specify Point (57.8°N, 152.4°W)



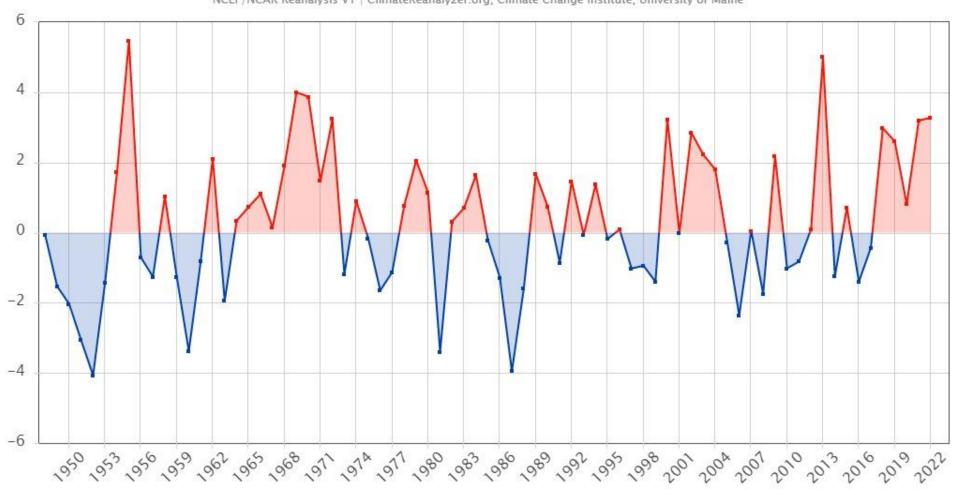
#### **Annual Trend In Temperature for King Cove**

Annual 2m Temperature Anomaly (°C) [1981–2010] Specify Point (55.0594°N, 162.313°W)



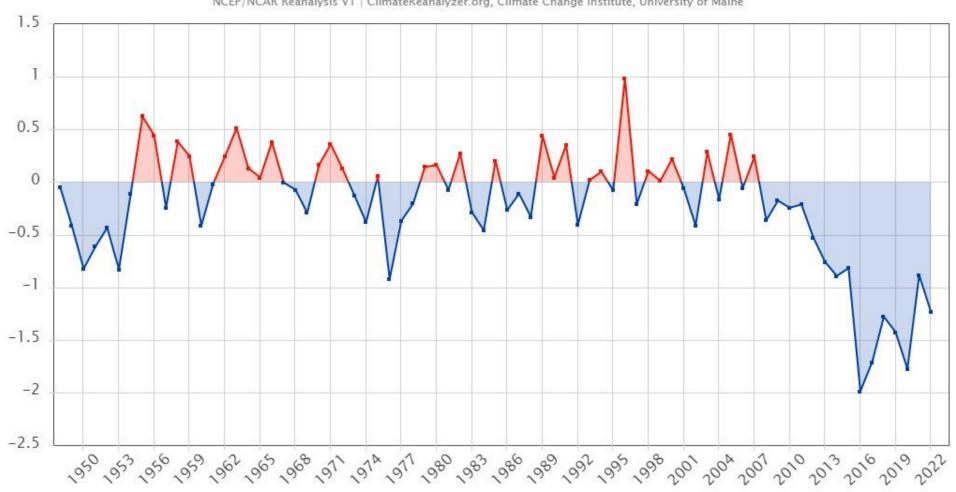
#### **Annual Trend In Cloudiness for King Cove**

Annual Total Cloud Cover Anomaly (%) [1981–2010] Specify Point (55.0594°N, 162.313°W)



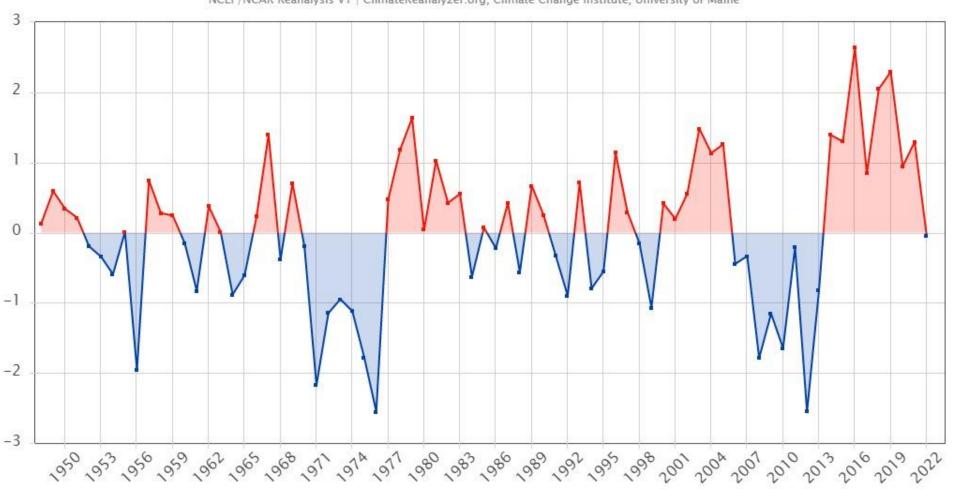
#### **Annual Trend In Wind Speed for King Cove**

Annual 1000hPa Wind Speed Anomaly (m/s) [1981-2010] Specify Point (55.0594°N, 162.313°W)



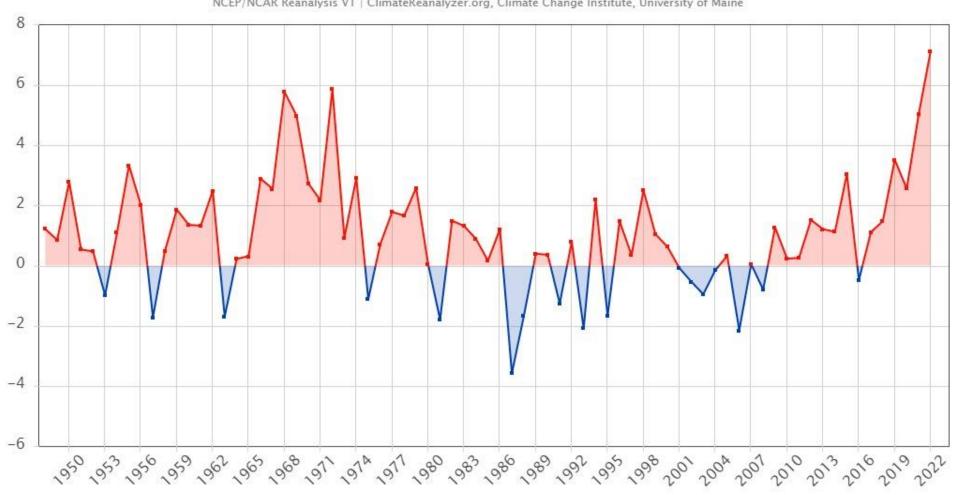
#### **Annual Trend In Temperature for St. Paul**

Annual 2m Temperature Anomaly (°C) [1981–2010] Specify Point (57.12°N, 170.283°W)



#### **Annual Trend In Cloudiness for St. Paul**

Annual Total Cloud Cover Anomaly (%) [1981-2010] Specify Point (57.12°N, 170.283°W)



#### **Annual Trend In Wind Speed for St. Paul**

Annual 1000hPa Wind Speed Anomaly (m/s) [1981-2010] Specify Point (57.12°N, 170.283°W)

