

# LEO Alaska Webinar Spring 2022 Climate Review and Summer 2022 Outlook

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## Spring 2022 Alaska Weather & Climate Highlights



**Utqiagvik** Apr 9: last day this Spring with wind chill -40F or lower

**Nome** April 30: 53F, highest temperature in April since 1940

Manley Hot Springs May 7-8: severe ice jam flooding



**Denali NP** Snowpack meltout May 28, latest on record

**Copper River** May snowmelt caused high water and erosion, one home lost near Glennallen



**Sea Ice** reached St. George Island late March but collapsed in April



Kwethluk Wildfire 10,000 acres, largest April wildfire in at least 30 years

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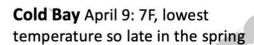
**Haines Customs** 

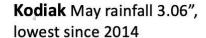
March 20-22: 17" snow, last big snow of the season

**Anchorage** second half of May: highest average temperature on record, 55.8F



**Sitka** April-May rainfall 4.85", lowest since 2014

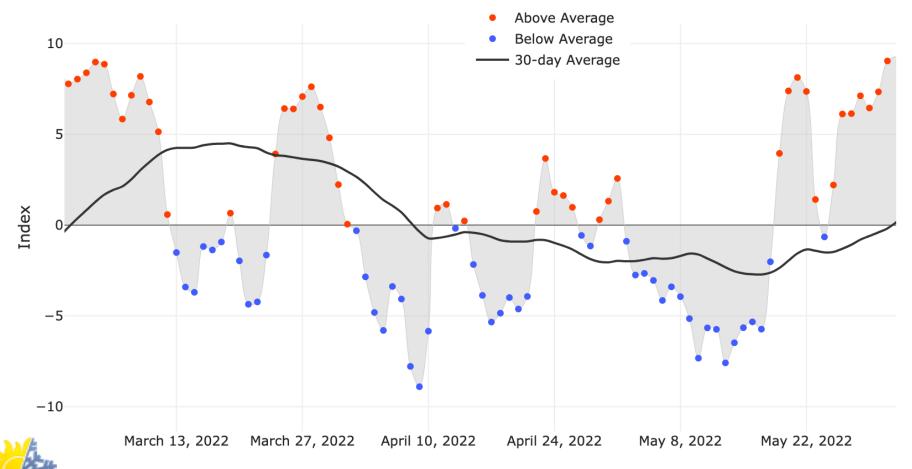






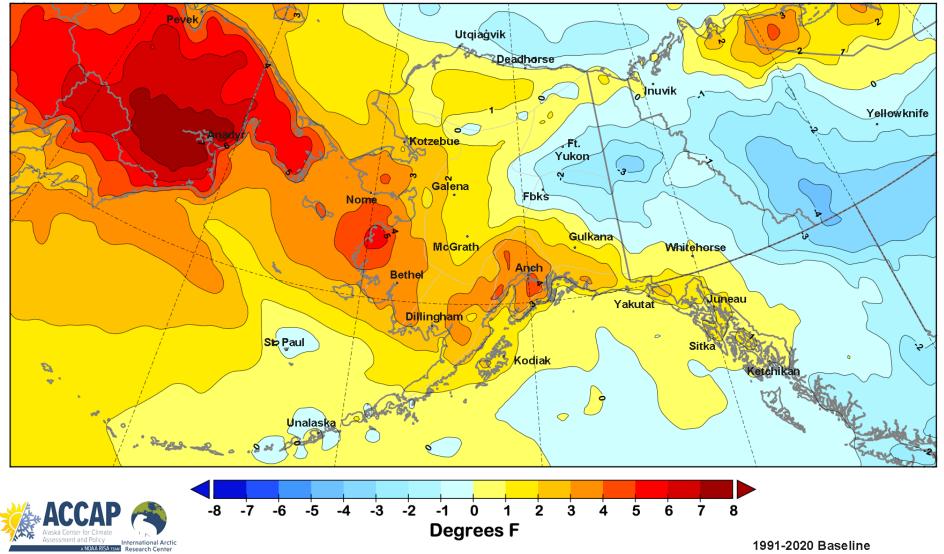
## **Alaska Daily Temperature Index**

Alaska Statewide Temperature Index March 1-May 31, 2022



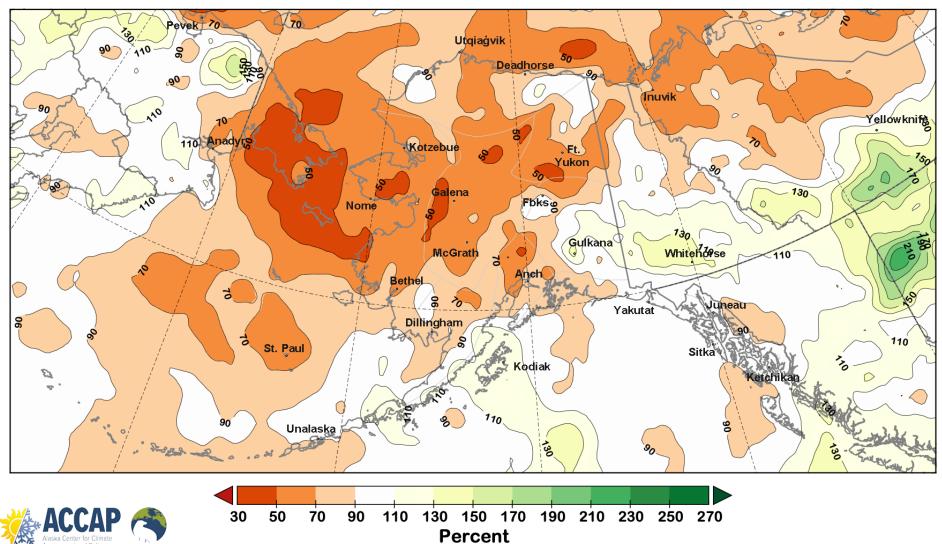
#### **Average Temperature: Departure from Normal**

Spring (March throug May) 2022



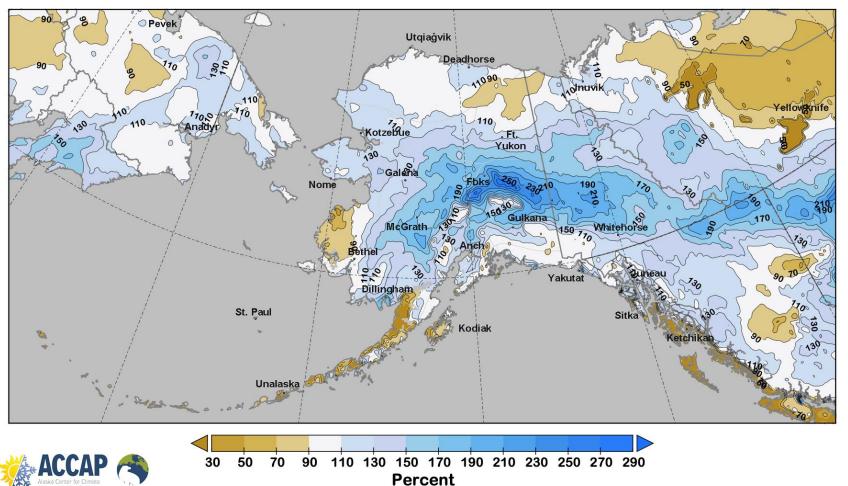
#### **Total Precipitation: Percent of Normal**

Spring (March through May) 2022



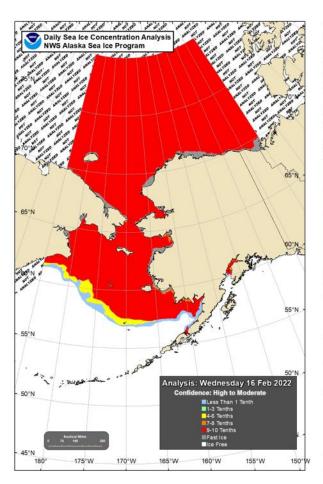
## Spring Snowpack

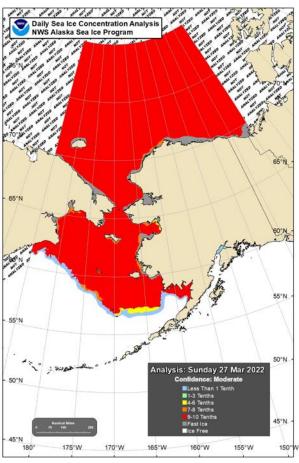
#### **Snowpack: Snow Water Equivalent Percent of Median** March 2022

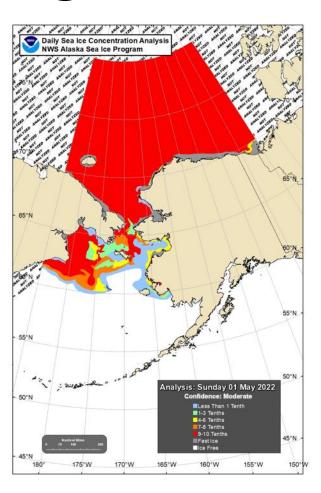




#### Alaska Ice Extent: Spring 2022







February 16 Highest extent

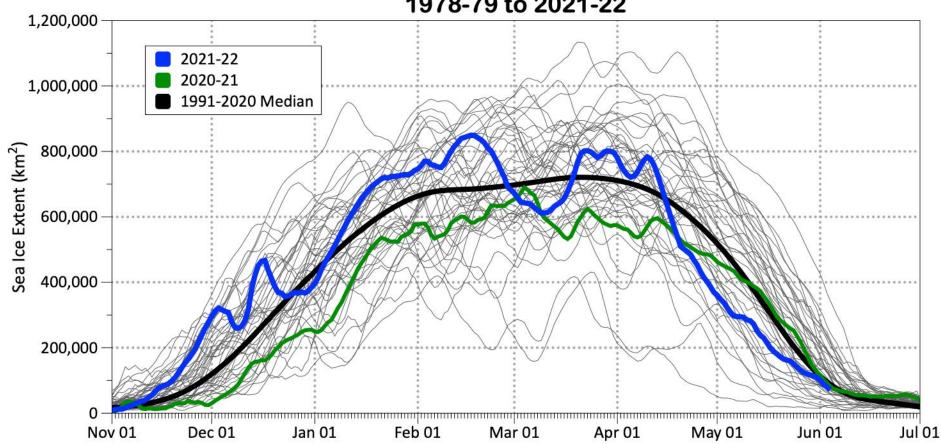
March 27 Ice to St. George

May 1st Ice Collapse



#### Bering Sea Ice Extent

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

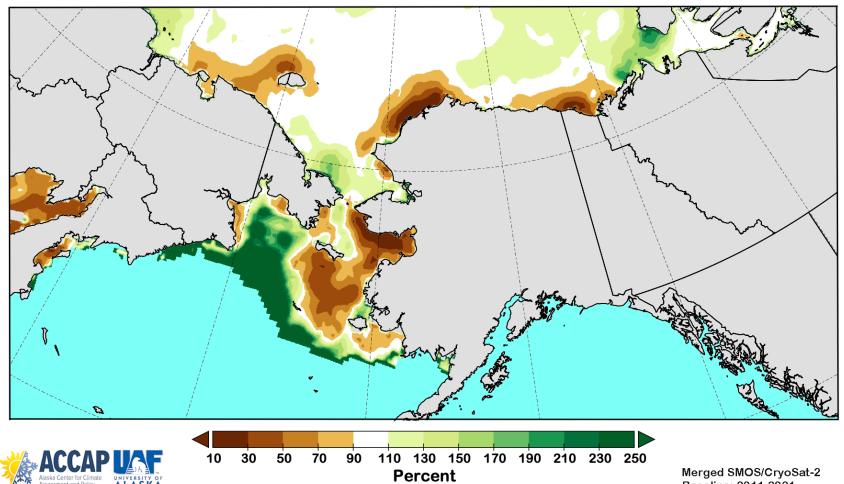




Data source: NSIDC Sea Ice Index, Version 3 Updated through June 04, 2022

#### End of March Sea Ice Thickness

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





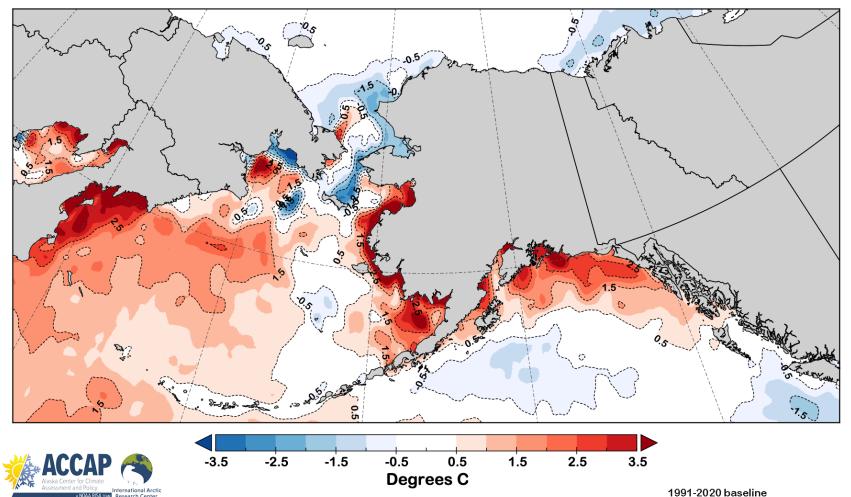
Baseline: 2011-2021

Data: Alfred Wegener Institute (AWI)

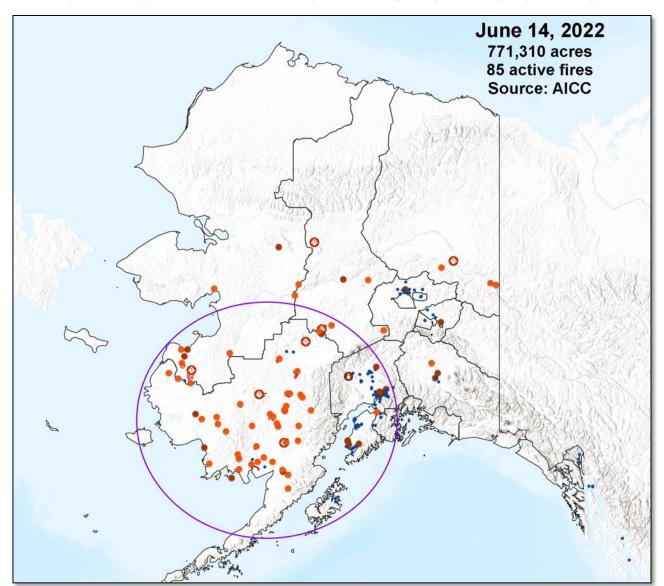
#### Ocean Surface Temperatures

#### **Daily Sea Surface Temperature**

June 2-8, 2022

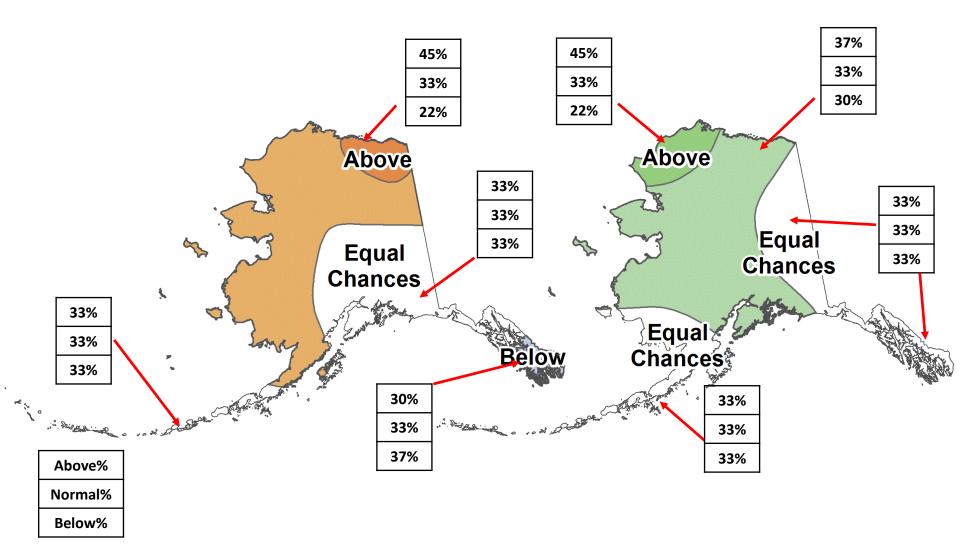


#### **Current Wildfire Situation**





#### **CPC June-August 2022 Outlook**



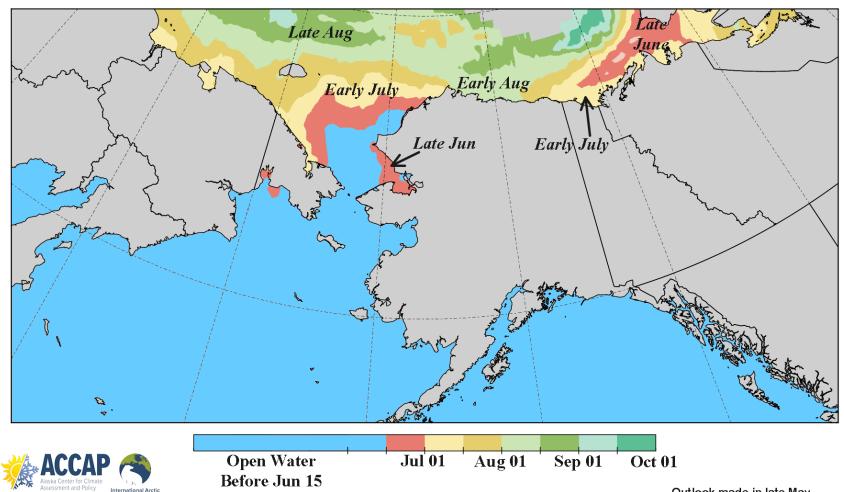






## Sea Ice Break-up Outlook

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





Outlook made in late May Data: NOAA/CPC Exp. Sea Ice Outlook

## Thanks very much



