

# Weather or Climate?

Alaska FFA Association &  
USDA Northwest Climate Hub



# University of Alaska Fairbanks Video on Climate and Weather

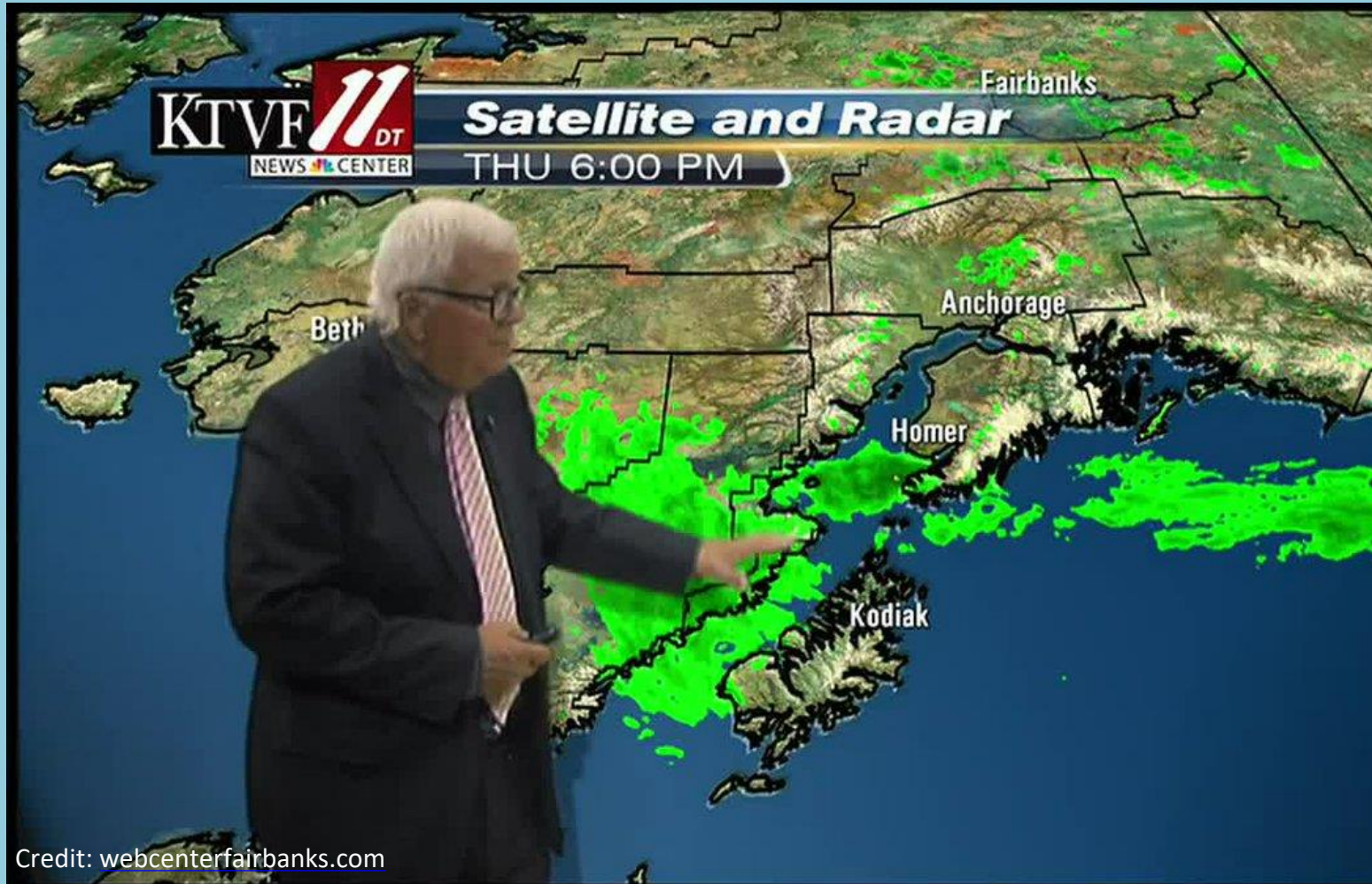


<https://uaf-accap.org/2019/09/05/climate-and-weather-whats-the-difference/>

# Weather or Climate?

- Weather is a description of short-term atmospheric conditions. It can include temperature, humidity, precipitation, cloudiness, visibility, wind, and atmospheric pressure. These observations are used to describe the conditions over a short time period, from minutes to months.
- Climate is the long-term pattern of weather in an area. It describes the average weather for a region over a longer time period, often defined as approximately 30 years or more.

# Fig 1. Forecaster in Alaska



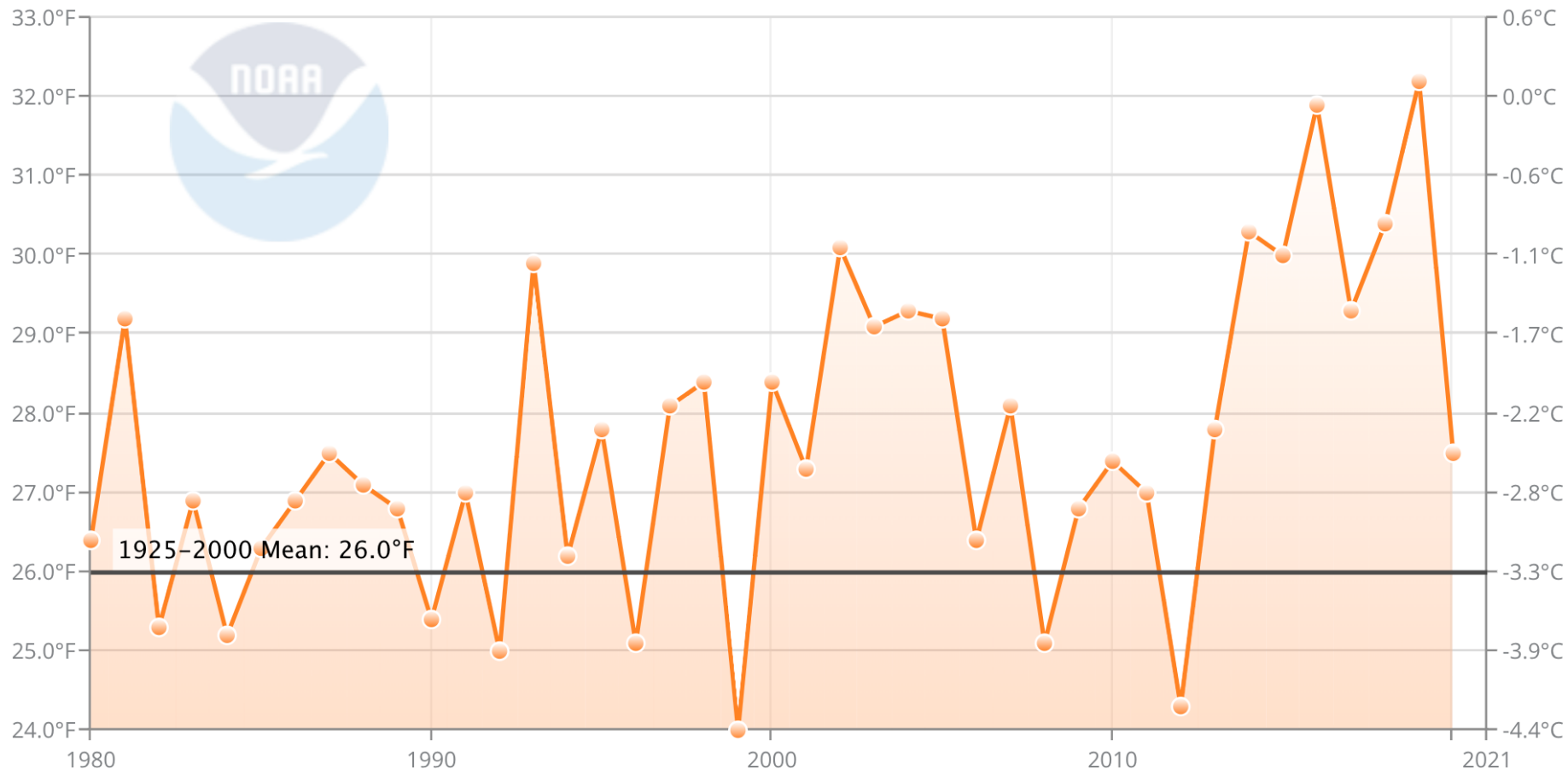
Credit: [webcenterfairbanks.com](http://webcenterfairbanks.com)

Caption

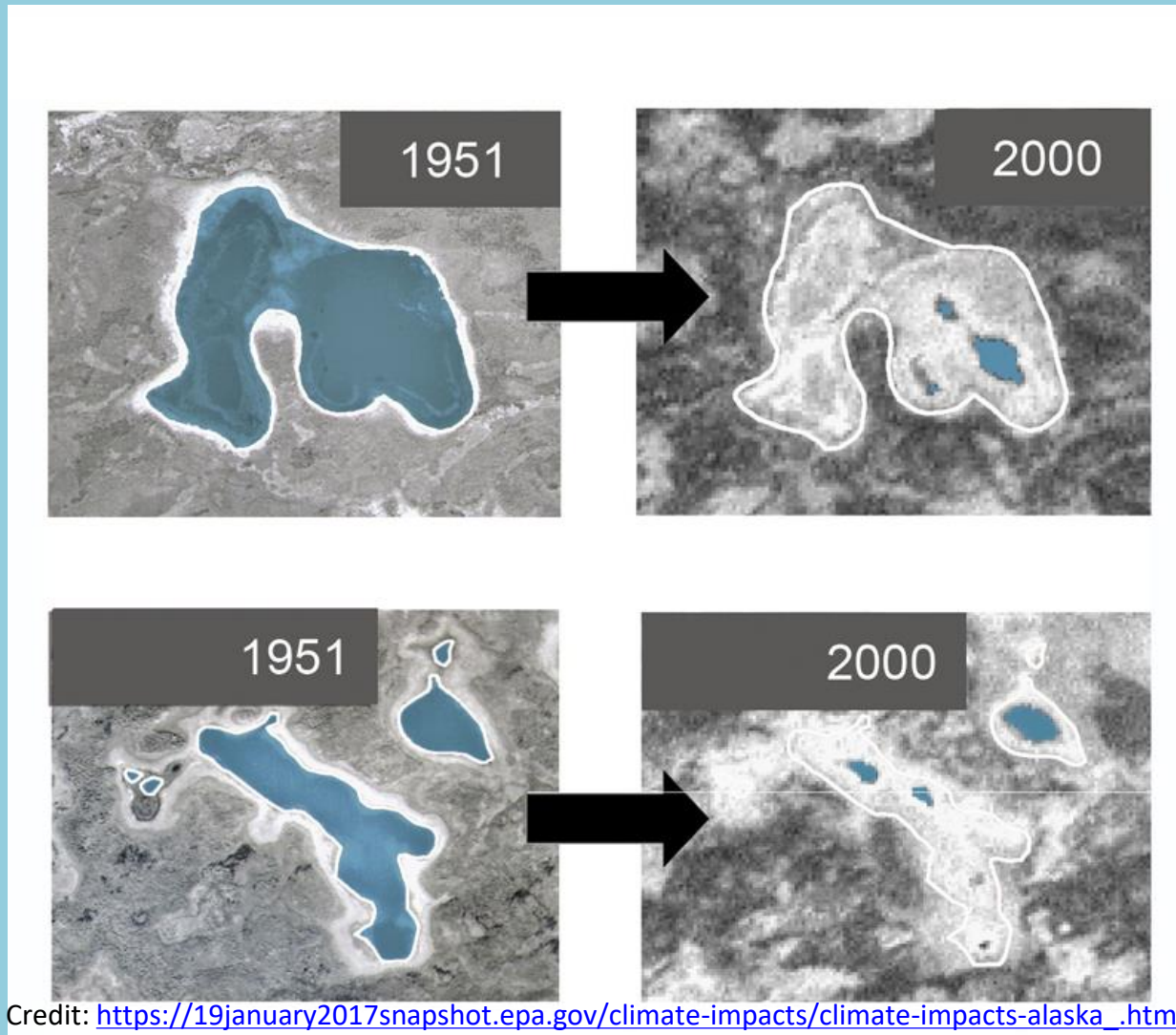
# Fig 2. Average annual temperature in Alaska from 1980-2021

Alaska Average Temperature  
January–December

Credit: [https://www.ncdc.noaa.gov/cag/statewide/time-series/50/tavg/ann/12/1980-2021?base\\_prd=true&begbaseyear=1925&endbaseyear=2000](https://www.ncdc.noaa.gov/cag/statewide/time-series/50/tavg/ann/12/1980-2021?base_prd=true&begbaseyear=1925&endbaseyear=2000)



# Fig 3. Lowered pond levels due to permafrost thaw—northeastern interior Alaska



Credit: [https://19january2017snapshot.epa.gov/climate-impacts/climate-impacts-alaska\\_.html](https://19january2017snapshot.epa.gov/climate-impacts/climate-impacts-alaska_.html)



# Fig 4. Rain gauge

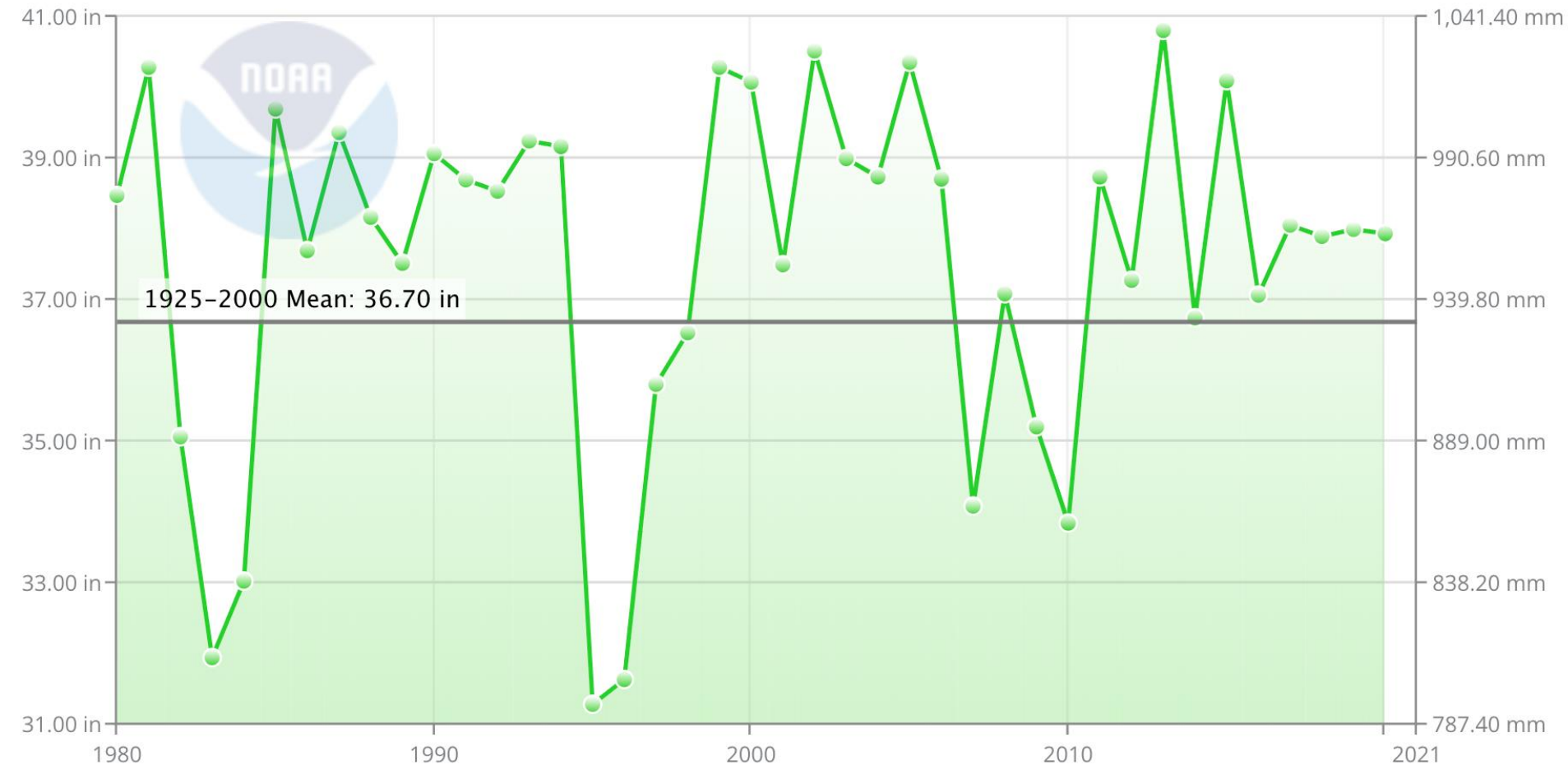


Credit: [pmm.nasa.gov/node/739](https://pmm.nasa.gov/node/739)

# Fig 5. Average annual precipitation in Alaska from 1980-2021

Alaska Precipitation  
January–December

Credit: [https://www.ncdc.noaa.gov/cag/statewide/time-series/50/pcp/ann/12/1980-2021?base\\_prd=true&begbaseyear=1925&endbaseyear=2000](https://www.ncdc.noaa.gov/cag/statewide/time-series/50/pcp/ann/12/1980-2021?base_prd=true&begbaseyear=1925&endbaseyear=2000)





# Fig 6. Snowstorm



Credit: [www.noaa.gov/features/monitoring\\_0209/coldwinds.html](http://www.noaa.gov/features/monitoring_0209/coldwinds.html)

# Fig 7. Average global surface temperature

