

# Alaska Statewide Climate Summary

## March 2019

The following report provides an overview of the March 2019 weather. The report is based on preliminary data from selected weather stations throughout the state of Alaska. "Departure from normal" refers to the climatological average over the 1981-2010 period.

### Temperature

Warm air masses from the northern Pacific and the Bering Sea resulted in an extremely warm month of March 2019. During the latter half of February, an Omega-type blocking pattern dominated the synoptic situation over Alaska. Between centers of low pressure over eastern Siberia and eastern Canada, a high pressure ridge produced warm and sunny conditions in much of the Interior. This pattern persisted into March, but began disintegrating during the first week of the month. The large scale circulation shifted to a more zonal regime, which brought unsettled weather and warm, wet storms, particularly to the southern coastal regions. Around mid-March the pattern flipped again and a very persistent high pressure ridge developed over Alaska and northwestern Canada, where it remained largely stationary for over two weeks, leading to a prolonged period of mostly sunny, very warm weather. An equally persistent area of low pressure centered over the Bering Sea produced a southwesterly flow along Alaska's west coast, pushing warm air from southern latitudes far into the polar regions (Figure 1).

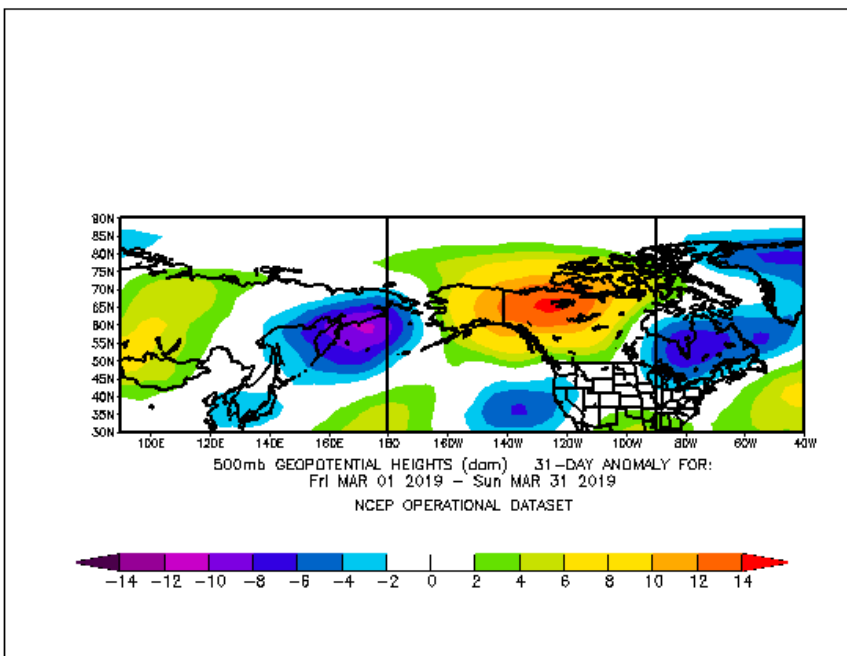


Figure 1: 31 day 500 hPa geopotential height anomalies (March 1 - March 31 2019), Source: <https://www.esrl.noaa.gov/psd>. High pressure over Interior Alaska and northwestern Canada dominated the synoptic situation during most of March.

New monthly high temperature records were observed especially in the Interior and in the western and northern parts of Alaska (Figure 2). Among the selected stations, Kotzebue recorded the highest deviation with 21.9 °F above normal temperature. Delta Junction, Utqiagvik and Fairbanks follow with 18.9, 18.5, and 16.2 °F, respectively. Stations located in the Interior and in western part of the state, such as Bettles, McGrath, Gulkana, Nome and Bethel reported deviations from normal larger than 10 °F. Southern stations recorded positive but less extreme deviations overall. The Southeast, especially Ketchikan (2.7 °F) and Juneau (4.0 °F), saw temperatures closer to normal values. Monthly temperature deviations for all stations are listed in Table 1.

Ten of the selected 19 stations set new mean monthly temperature records this month. In **Utqiagvik** and **Kotzebue**, March 2019 was the warmest in more than a hundred years. Mean monthly temperature in Utqiagvik reached 5.9 °F, which is 5.5 °F warmer than the second warmest March recorded in 1904. Kotzebue recorded 23.0 °F, respectively 7.4 and 9.5 °F warmer than the previous records in 1898 and in 1998. In **Bethel, Nome** and **Delta Junction**, mean monthly temperatures for this month were more than 1 °F warmer than the previous records reported in 1981, 1981 and 1965, respectively. Likewise, **Bettles, Fairbanks, Homer, McGrath** and **Talkeetna** experienced the warmest March on record. Gulkana and King Salmon saw the second warmest, Anchorage the third warmest, and Cold Bay, Juneau, Kodiak and Yakutat the fourth warmest mean March temperature ever measured. Figure 3 shows time series plots of March temperature deviations in Fairbanks, Kotzebue and Utqiagvik. At many stations, multiple daily temperature records were set. All values and dates are listed in Table A in the appendix.

Figure 4 shows temperature deviations at all of the selected stations for each day of the month. Consistent positive deviations from normal indicate prolonged and unusually persistent high temperatures throughout the state. Stations located in the South Central and South Eastern region, such as Gulkana, Talkeetna, Yakutat, Juneau and Ketchikan, recorded cooler than normal temperatures only at the beginning of the month, and persistent positive deviations afterwards. Southwestern stations like Cold Bay, St. Paul Island, Bethel, and Nome report slightly cooler than normal temperatures for a few days in the middle of the month and persistently warm conditions otherwise. Not only the frequency of days with warmer than normal temperature is exceptionally high, the magnitude of the deviations is also notably large, especially in the Interior (Bettles, Delta Junction, Fairbanks, Gulkana, and McGrath) and in the Arctic region (Utqiagvik). At many locations, March temperatures were closer to what can typically be expected in April, and well above the normal range for March. Fairbanks March temperatures compared to typical April temperatures are shown as an example in Figure 5.

Table 1: Mean monthly air temperature, normal (1981-2010) and departure for selected stations throughout the state, March 2019.

Station	Observed (°F)	Normal (°F)	Departure (°F)
Anchorage	35.7	26.5	9.2
Bethel	30.5	15.2	15.3
Bettles	18.5	4.4	14.1
Cold Bay	35.6	30.1	5.5
Delta Junction	33.0	14.1	18.9
Fairbanks	27.6	11.4	16.2
Gulkana	28.3	15.6	12.7
Homer	38.8	29.9	9.0
Juneau	37.8	33.8	4.0
Ketchikan	40.6	37.8	2.7
King Salmon	35.8	24.1	11.7
Kodiak	38.9	32.8	6.1
Kotzebue	23.0	1.0	21.9
McGrath	27.3	11.6	15.7
Nome	23.8	10.3	13.5
St. Paul Island	31.4	24.9	6.6
Talkeetna	33.6	24.9	8.7
Utqiagvik	5.9	-12.6	18.5
Yakutat	38.5	32.0	6.5

2019-03, Monthly Temperature Departure From Normal (1981-2010)

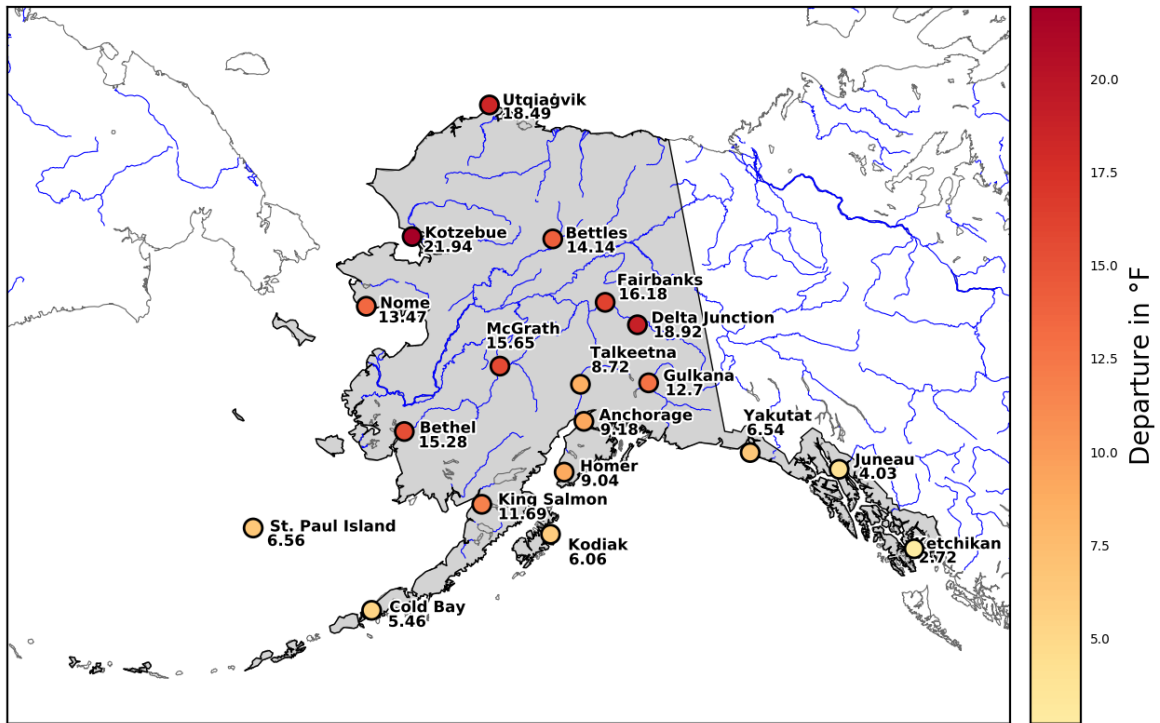


Figure 2: Monthly mean temperature departure from normal, March 2019.

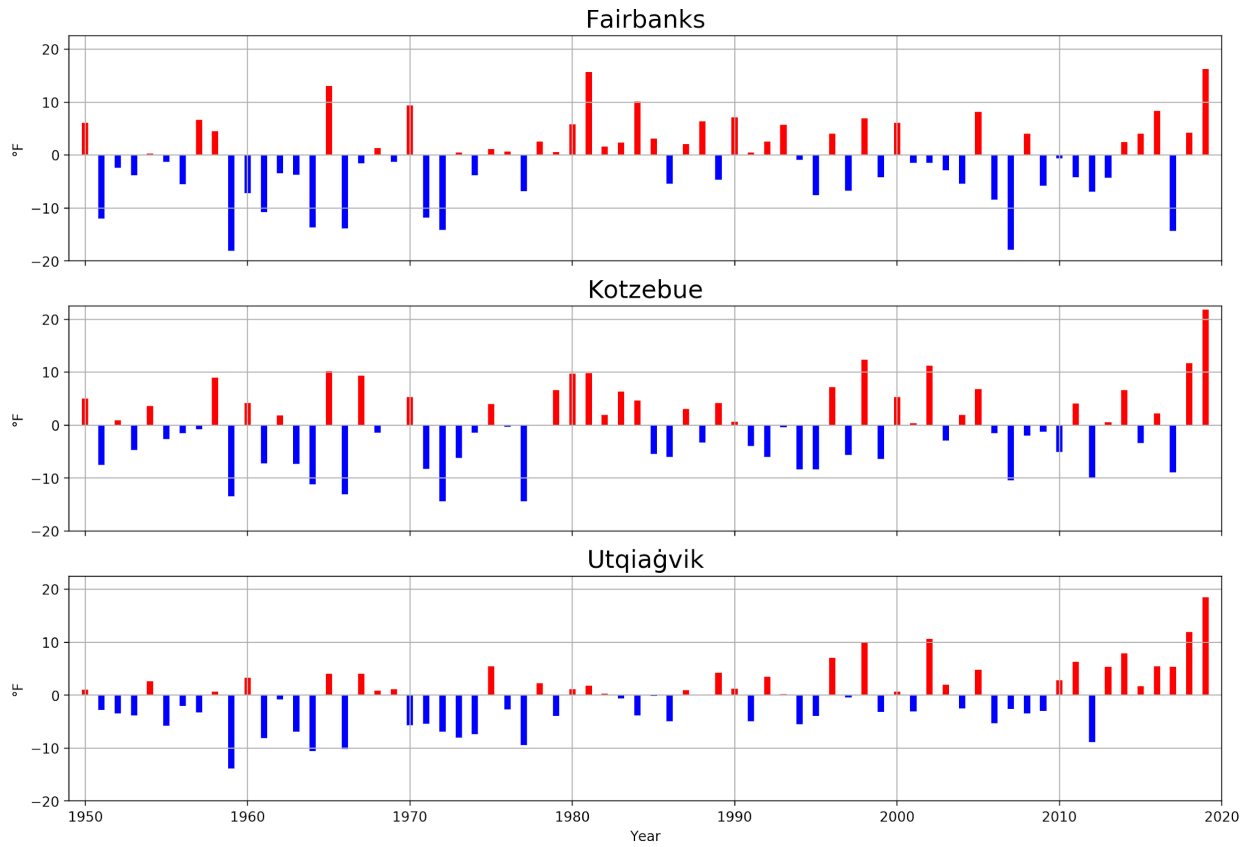


Figure 3: Time series of March temperature deviations from the 1981-2010 normal in Fairbanks, Kotzebue and Utqiagvik since 1950. March 2019 stands out as exceptionally warm.

Daily mean temperature, departure from normal (1981-2010), 2019-03

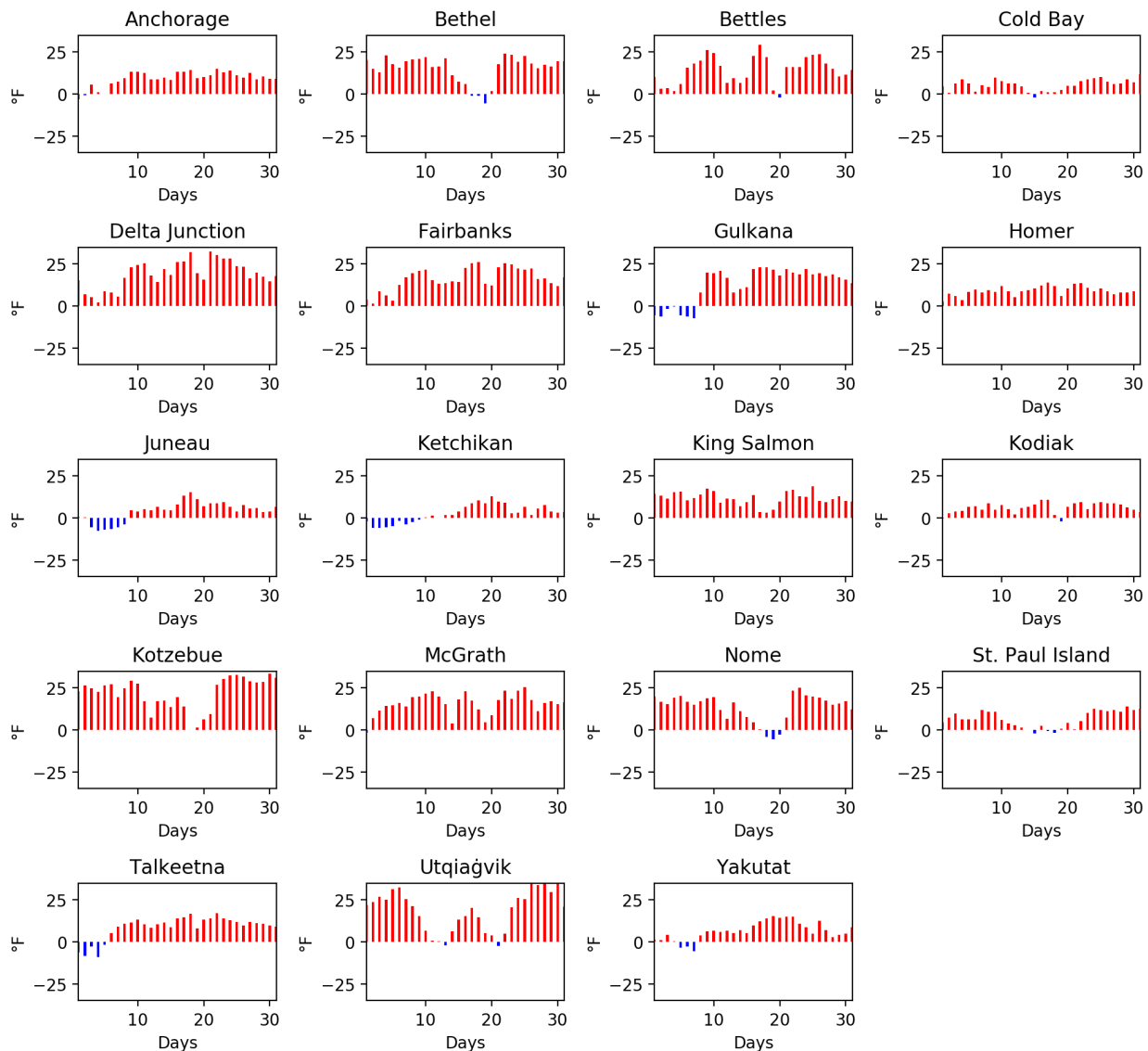


Figure 4: Daily mean temperature departures for each day in March 2019, at the selected stations.

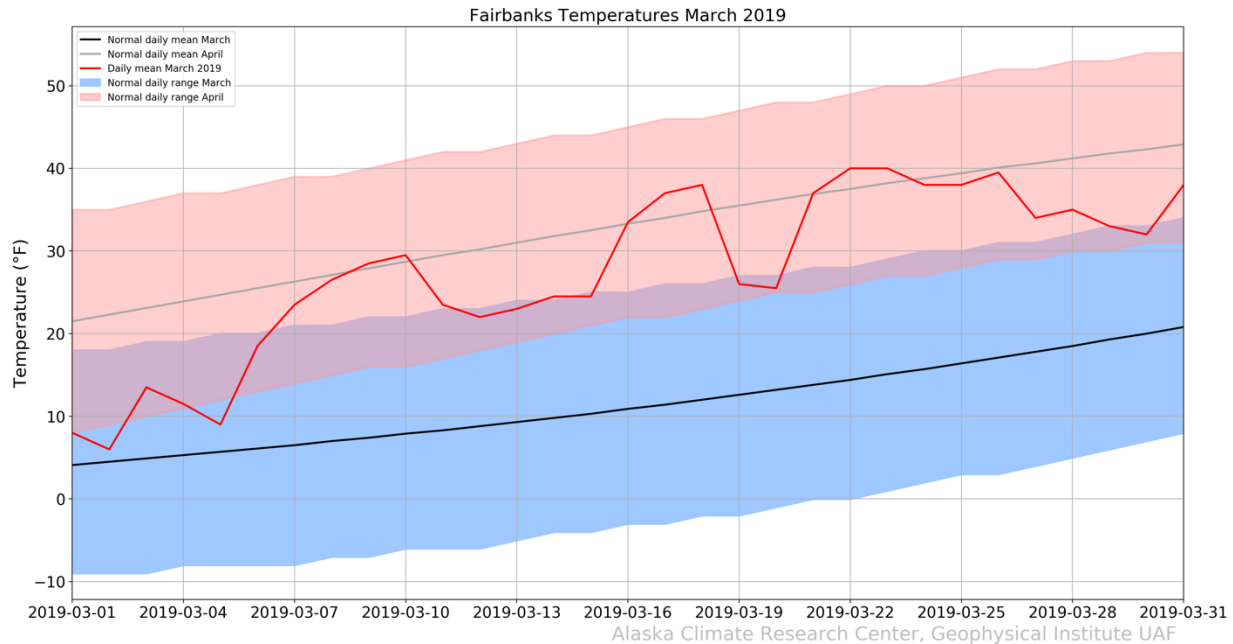


Figure 5: Fairbanks daily mean temperatures (red line) in March 2019, compared to the normal (1981-2010) temperature range in March (blue area) and April (red area). The black line represents March normal temperatures, the grey line represents April normal temperatures.

## Precipitation

Like in February, March precipitation patterns were split between the North and West and the southern and southeastern parts of the state. The Panhandle, some stations of the southern Interior (Delta Junction, Talkeetna, Gulkana), and Anchorage recorded drier than normal conditions (Table 2, Figure 6). The rest of Alaska saw wetter than normal weather, with relatively large deviations in the North and Northwest (Table 2, Figure 6).

Utqiagvik was the wettest station this month in relative terms with almost 489 % of normal precipitation. Bettles was also particularly wet, recording more than 367% of normal precipitation. Nome, Kotzebue and King Salmon follow with 276.9, 268.2 and 210%, respectively. Delta Junction recorded the lowest relative precipitation with only 5.6% of normal, closely followed by Anchorage at 10% and Gulkana at 20%. In Talkeetna, Juneau, and Ketchikan roughly half of normal precipitation was recorded. Moderate to severe drought conditions persist in the southern Panhandle.

Figure 6 shows the monthly precipitation sums at each station in inches. It can be seen how strongly precipitation varies between stations not only during the past month but also in the climatological mean, due to the diverse climatological conditions that can be found in Alaska. Ketchikan experienced the largest deviation from normal in absolute terms with more than 5 inches below normal (Figure 7).

Table 2: Monthly precipitation sum, normal (1981-2010) and departure expressed as a percentage of the normal (1981-2010) for selected stations throughout the state, March 2019.

Station	Precipitation (in)	Normal (in)	% of normal
Anchorage	0.1	0.6	10.0
Bethel	0.8	0.7	116.9
Bettles	2.1	0.6	367.2
Cold Bay	4.6	2.7	171.1
Delta Junction	0.0	0.2	5.6
Fairbanks	0.5	0.3	180.0
Gulkana	0.1	0.3	20.0
Homer	2.4	1.6	144.8
Juneau	2.2	3.8	57.9
Ketchikan	5.7	10.9	52.1
King Salmon	1.5	0.7	210.0
Kodiak	7.0	5.5	126.6
Kotzebue	1.2	0.4	268.2
McGrath	0.9	0.8	107.4
Nome	1.8	0.7	276.9
St. Paul Island	1.7	1.1	156.1
Talkeetna	0.5	1.1	49.5
Utqiagvik	0.4	0.1	488.9
Yakutat	9.5	11.0	86.4



2019-03, Monthly Precipitation, % of Normal (1981-2010)

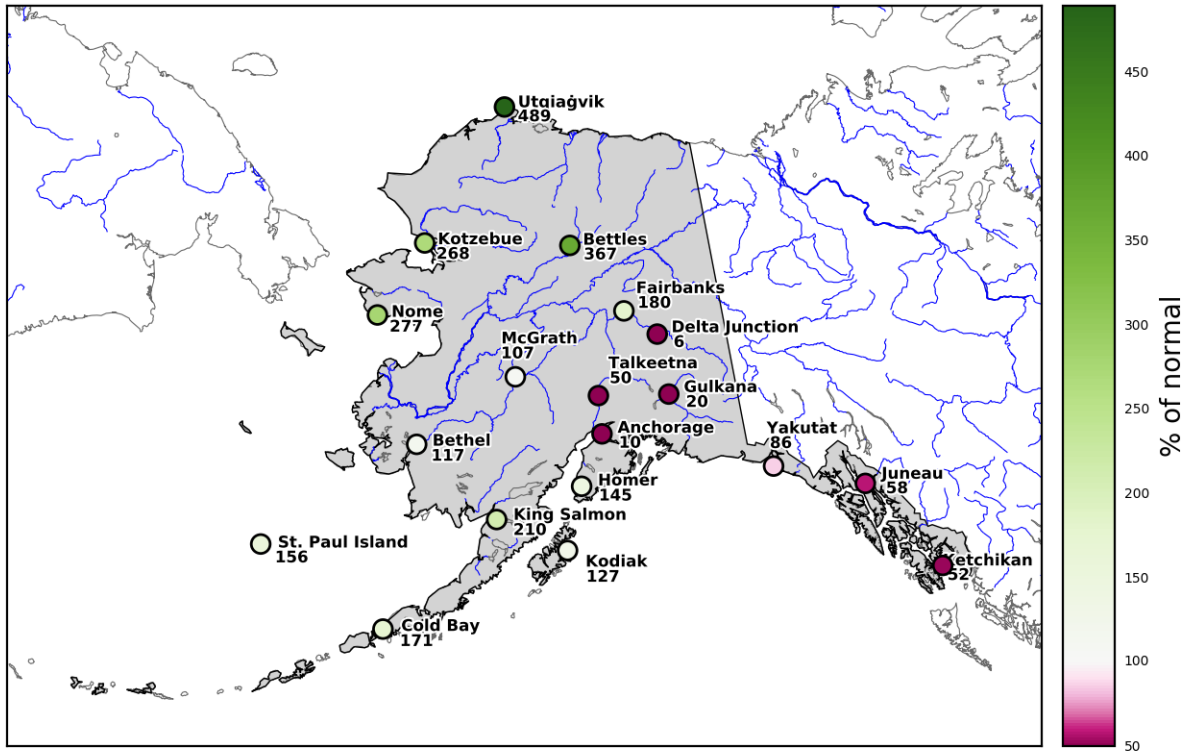


Figure 6: Monthly precipitation sums expressed as percent of normal (1981-2010), March 2019.

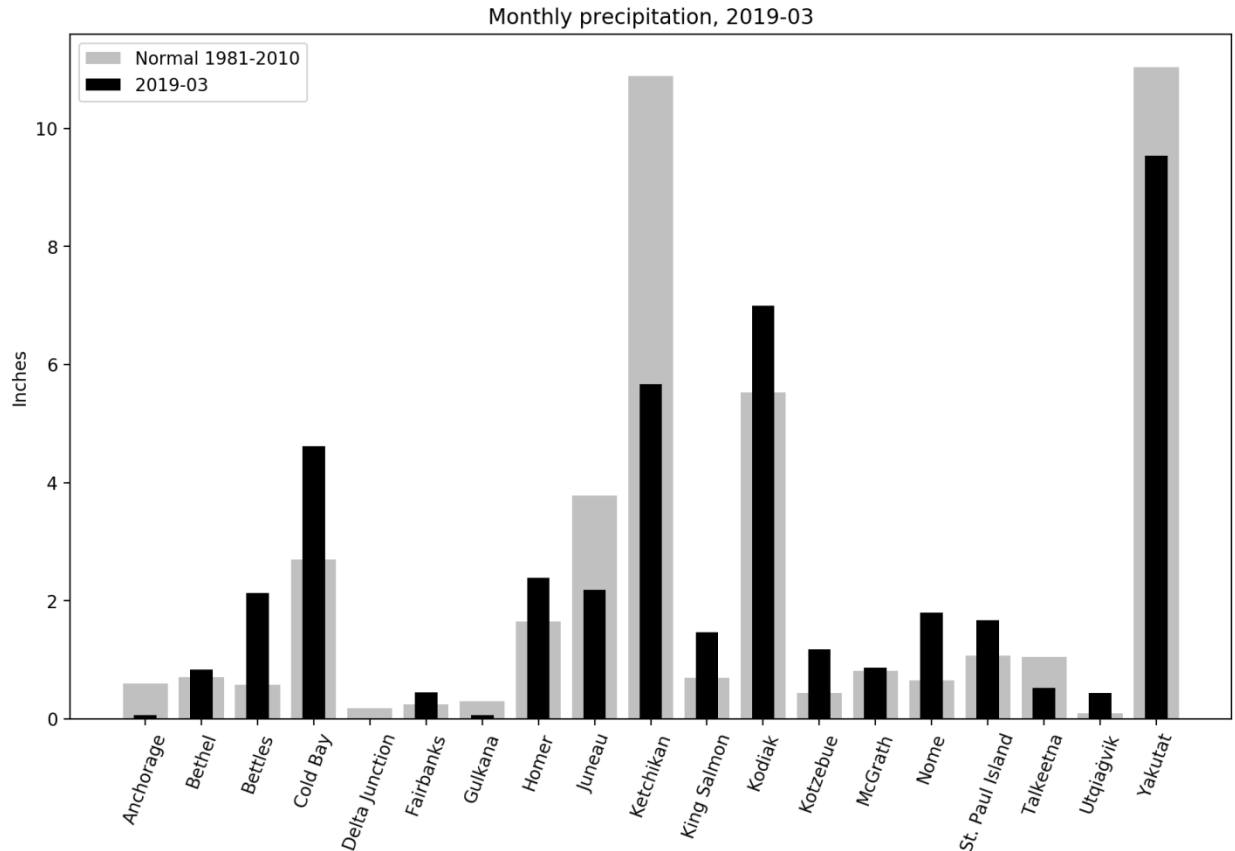


Figure 7: Monthly precipitation sums for March 2019 at the selected stations compared to the normal (1981-2010), in inches.

## Snow

Overall, snowfall was below normal this month. Although the spatial pattern is not well defined, southern stations show the highest reduction of snowfall in relative terms or no snowfall at all. In Yakutat, Juneau, Bethel, and Kodiak zero snowfall was recorded. This month, all these stations reported precipitation larger than zero, and the last two stations experienced even larger than normal precipitation (Figure 6), indicating that all precipitation fell as rain. At Cold Bay and Fairbanks, March snowfall was also lower this year with respectively 50 and 57.1 % of normal, while King Salmon and Bettles recorded close to normal snowfall. At 285.7, 220.2, 159.3 and 128.3 % of normal, Utqiagvik, Nome, Kotzebue and McGrath saw greater than normal snowfall this March (Table 3).

Table 3: Monthly snowfall sum, normal (1981-2010) and departure expressed as a percentage of the normal (1981-2010) for the selected stations that measure snowfall, March 2019.

Station	Snowfall (in)	Normal (in)	% of normal
Anchorage	0.0	9.9	0.0

Bethel	0.0	8.2	0.0
Bettles	10.6	9.3	114.0
Cold Bay	6.5	13.0	50.0
Fairbanks	2.8	4.9	57.1
Juneau	0.0	11.6	0.0
King Salmon	5.8	6.4	90.6
Kodiak	0.0	11.3	0.0
Kotzebue	9.4	5.9	159.3
McGrath	14.5	11.3	128.3
Nome	19.6	8.9	220.2
St. Paul Island	0.2	8.0	2.5
Utqiagvik	6.0	2.1	285.7
Yakutat	0.0	28.4	0.0

## Arctic Sea Ice

Figure 8 shows time series of daily Arctic sea ice extent updated until March 28, 2019. Arctic sea ice likely reached its annual maximum extent on March 13<sup>th</sup>, which is close to the 1981 to 2010 median date of March 12. This year ties with 2007 as the seventh lowest annual maximum of the satellite record. The 2019 maximum extent is 860,000 square kilometers below the 1981 to 2010 average maximum (Figure 8). The sea ice melt season has most likely started, and sea ice extent is currently just roughly 0.15 square kilometers over the extent of ice in 2017 (Figure 8, magenta line), which was the lowest of all the time for this time of year.

After last month's dramatic reduction in sea ice associated with high temperatures and very stormy conditions, this month, the Bering Sea sets a new record of lowest March sea ice extent. The mean monthly sea ice extent is roughly 282,437 square kilometers, more than 19,000 square kilometers less than the previous lowest record of 2018. The unprecedented low Bering sea ice increases flooding risk on Alaska's arctic coasts, and impacts crabbing, ice-fishing, and walrus hunting conditions. Likewise, in the Chukchi sea, the sea ice extent is at its lowest measured value with 828,694 square kilometers, roughly 1500 square kilometers less than in 1989.

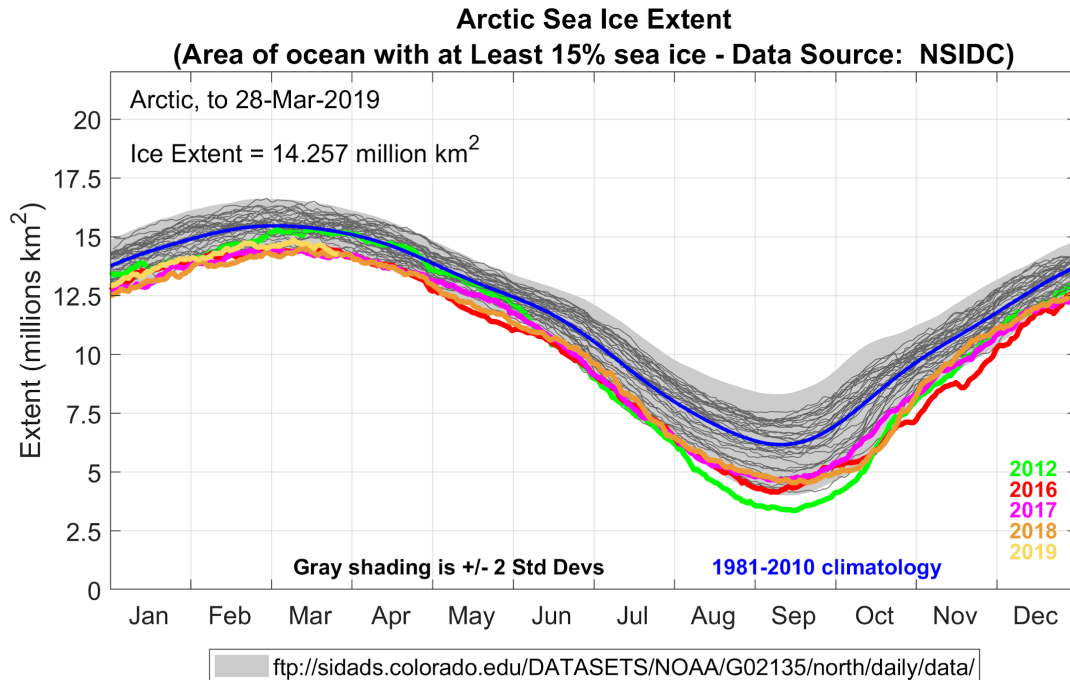


Figure 8: Time series of daily Arctic sea ice extent. This years data (yellow) are updated until March 28, 2019. The median sea ice extent for the 1981-2010 reference period is depicted in blue. Specific years are highlighted in colours. Plot Compiled by: Howard J. Diamond, PhD; Climate Science Program Manager at NOAA's Air Resources Laboratory Data Source: National Snow & Ice Data Center (NSIDC; <https://nsidc.org/>).

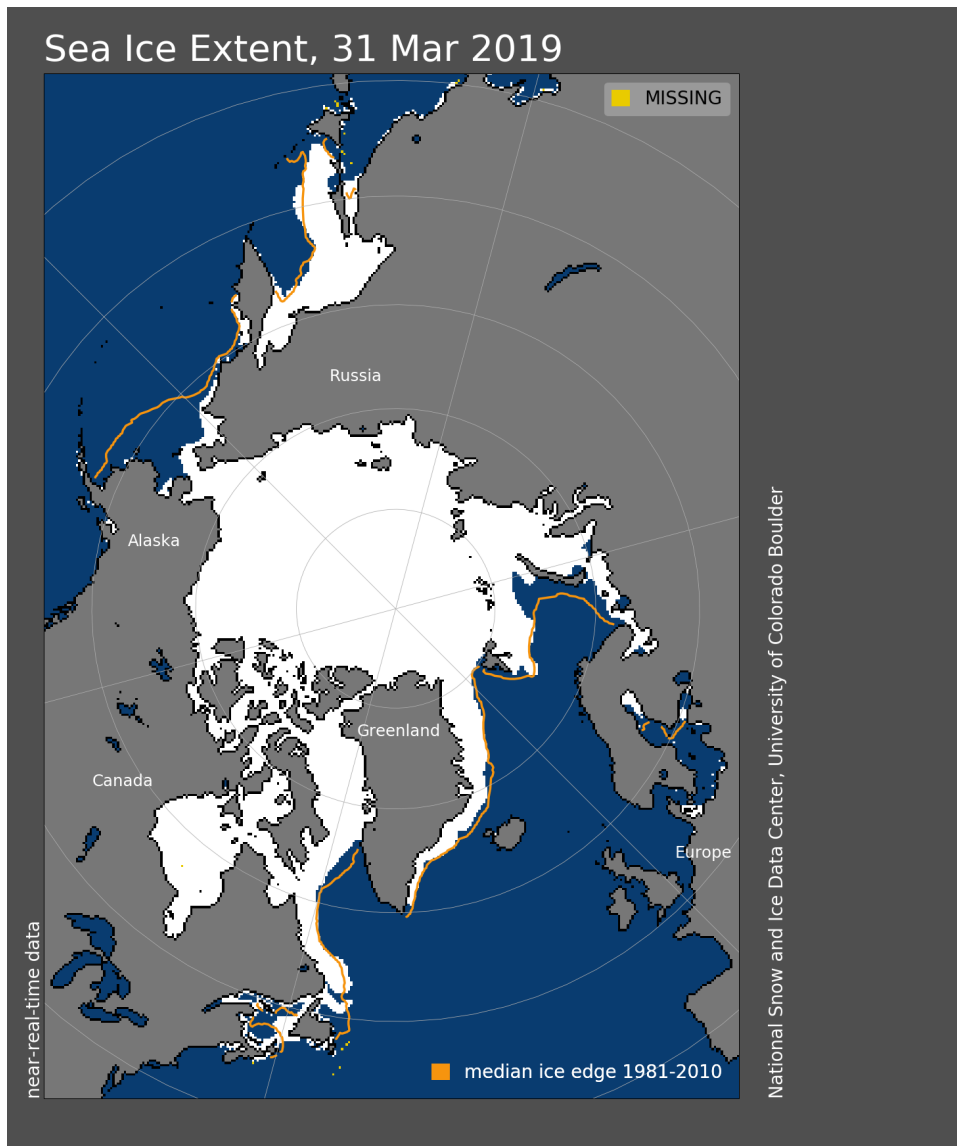


Figure 9: Daily Arctic Sea Ice concentration, March 31, 2019, median ice edge for the 1981-2010 reference period in yellow. Very low sea ice concentration in the Bering Sea. Image: NSIDC (nsidc.org)

## Newsworthy Events

Snow melt in Anchorage was the fourth earliest on record, behind 2016, 1980 and 1987. Snow depth of under one inch is normally reached around mid-April; this year the one inch threshold was reached on March 30<sup>th</sup>. Fairbanks is not far behind with a significantly below normal snow depth of 6 inches on March 31<sup>st</sup>. Fairbanks saw consecutive days with lows above freezing during the last week of March, the first time this has ever been recorded in March.

Break up on many rivers is expected to occur earlier than normal this year, as is “green-up” day, defined by the National Weather Service as the first day to have “leaf buds in birch and aspen open just enough to produce a faint but distinct green flush through the forest canopy”. The Nenana river is reported to be flowing at Nenana and a small ice jam has formed on the Tanana downstream of the Boondox. There has been some speculation that breakup of the Tanana at Nenana may occur before the Ice Classic entry period ends – this would be unprecedented in the long history of the event.

A number of sporting events were affected by the unusually warm temperatures and lack of snow and ice: Mushers of the 2019 Iditarod Trail Sled Dog Race had to deal with stretches of wet and soggy trail and adjusted their rest schedules to deal with the warm weather. The course of the race was moved overland between Elim and Golovin because of a lack of sea ice. Due to the thin ice associated with the recent high temperatures, the Sonot Kkaazoot Nordic Ski Race, held in Fairbanks on Saturday March 23rd, was moved from its usual course on the Chena River to Birch Hill. The 40 and 50 km events were combined and shortened to 30 km and the 20 km event was shortened to 9.5 km.

Unexpectedly high temperatures, together with heavy rainfall events and strong wind, raised avalanche risk in mountainous areas. The Alyeska Resort in Girdwood (Chugach State Park) shut down mountain operations for few days due to high avalanche risk. On March 9th an avalanche on Madson Mountain close to Moose Pass (Kenai Fjords National Park) killed a 33-year-old Anchorage resident. A second fatality was reported in the same week: a 34-year-old was buried by an avalanche on Takshanuk Mountain near Haines. Both incidents were related to weak layers in the snowpack associated with the unusual weather.

*This information consists of preliminary climatological data compiled by the Alaska Climate Research Center, Geophysical Institute, University of Alaska Fairbanks. For more information on weather and climatology, visit the center web site at <http://akclimate.org>. Please report any errors to [webmaster@akclimate.org](mailto:webmaster@akclimate.org).*

## Appendix

Table A: Daily temperature records, March 2019, since the beginning of the respective time series. avgt = daily mean temperature, mint = daily minimum temperature, maxt = daily maximum temperature.

Station	Date	Element	New Record	Year of old record	Old record
<b>High records</b>					
Anchorage	2019-03-16	avgt	39.5	1970	38.5
Anchorage	2019-03-23	avgt	41	1965	40
Anchorage	2019-03-24	avgt	42.5	2016	42
Anchorage	2019-03-27	avgt	42	2015	41
Anchorage	2019-03-29	avgt	40.5	1995	39.5
Anchorage	2019-03-16	maxt	46	1984	45

Anchorage	2019-03-27	maxt	50	1996	48
Anchorage	2019-03-29	maxt	49	1995	48
Anchorage	2019-03-24	mint	37	1992	34
Bethel	2019-03-04	avgt	36.5	1924	33
Bethel	2019-03-10	avgt	36	1949	35
Bethel	2019-03-23	avgt	39.5	1965	38.5
Bethel	2019-03-25	avgt	39.5	1974	39
Bethel	2019-03-21	maxt	44	1932	41
Bethel	2019-03-04	mint	35	1943	32
Bethel	2019-03-25	mint	34	1996	33
Bettles	2019-03-17	avgt	33.5	1957	27
Bettles	2019-03-26	avgt	32.5	1970	32
Bettles	2019-03-17	maxt	44	1998	35
Bettles	2019-03-31	maxt	43	1993	42
Bettles	2019-03-09	mint	22	1965	20
Bettles	2019-03-26	mint	28	1970	24
Cold Bay	2019-03-09	avgt	39.5	1962	39
Cold Bay	2019-03-25	avgt	40.5	1991	39.5
Cold Bay	2019-03-29	maxt	51	1981	47
Delta Junction	2019-03-16	avgt	39.5	1956	33.5
Delta Junction	2019-03-21	avgt	48	1987	39
Delta Junction	2019-03-22	avgt	46.5	1979	39.5
Delta Junction	2019-03-23	avgt	45	1998	39.5
Delta Junction	2019-03-24	avgt	45.5	1992	39
Delta Junction	2019-03-25	avgt	41.5	1998	39
Delta Junction	2019-03-21	maxt	56	1998	49
Delta Junction	2019-03-22	maxt	54	1999	51
Delta Junction	2019-03-23	maxt	57	1998	51
Delta Junction	2019-03-24	maxt	51	1998	48
Delta Junction	2019-03-28	maxt	51	1954	50
Delta Junction	2019-03-31	maxt	57	2016	56
Delta Junction	2019-03-17	mint	35	1970	33
Delta Junction	2019-03-18	mint	43	1981	37
Delta Junction	2019-03-21	mint	40	1987	35
Delta Junction	2019-03-22	mint	39	1949	34
Delta Junction	2019-03-24	mint	40	1992	34
Delta Junction	2019-03-25	mint	36	1994	35
Fairbanks	2019-03-17	avgt	37	1981	33.5

Fairbanks	2019-03-21	avgt	37	1965	34.5
Fairbanks	2019-03-22	avgt	40	1949	34.5
Fairbanks	2019-03-23	avgt	40	1965	37.5
Fairbanks	2019-03-25	avgt	38	1987	35.5
Fairbanks	2019-03-26	avgt	39.5	1970	38
Fairbanks	2019-03-17	maxt	48	1981	46
Fairbanks	2019-03-21	maxt	53	1998	51
Fairbanks	2019-03-22	maxt	50	1987	48
Fairbanks	2019-03-23	maxt	52	1998	50
Fairbanks	2019-03-22	mint	30	1949	24
Fairbanks	2019-03-25	mint	34	1965	31
Fairbanks	2019-03-26	mint	34	1965	31
Gulkana	2019-03-17	avgt	38.5	1944	36.5
Gulkana	2019-03-18	avgt	39	1947	36
Gulkana	2019-03-24	avgt	40.5	1998	36.5
Gulkana	2019-03-27	avgt	38	1910	37.5
Gulkana	2019-03-28	avgt	39.5	2016	38.5
Gulkana	2019-03-21	maxt	50	1915	47
Gulkana	2019-03-22	maxt	50	2016	49
Gulkana	2019-03-23	maxt	49	1998	47
Gulkana	2019-03-26	maxt	51	1915	49
Gulkana	2019-03-27	maxt	51	1910	50
Gulkana	2019-03-28	maxt	54	1910	48
Gulkana	2019-03-29	maxt	51	2016	49
Gulkana	2019-03-30	maxt	52	1961	48
Gulkana	2019-03-31	maxt	52	2016	51
Gulkana	2019-03-17	mint	35	1944	31
Gulkana	2019-03-18	mint	35	1970	31
Homer	2019-03-16	avgt	42	2015	41.5
Homer	2019-03-17	avgt	44	1944	41.5
Homer	2019-03-21	avgt	44	1982	42
Homer	2019-03-22	avgt	44.5	2016	43.5
Homer	2019-03-20	maxt	50	1941	49
Homer	2019-03-30	maxt	53	2016	51
Homer	2019-03-16	mint	39	2015	38
Homer	2019-03-17	mint	38	1998	36
Homer	2019-03-21	mint	41	1982	39
Homer	2019-03-22	mint	40	2016	38



Juneau	2019-03-16	avgt	41.5	1947	40.5
Juneau	2019-03-17	avgt	47	1961	41
Juneau	2019-03-18	avgt	49.5	1961	43
Juneau	2019-03-19	avgt	45.5	1947	42.5
Juneau	2019-03-21	avgt	43.5	2016	43
Juneau	2019-03-22	avgt	43.5	2016	43
Juneau	2019-03-23	avgt	44.5	1981	44
Juneau	2019-03-17	maxt	51	1990	50
Juneau	2019-03-18	maxt	59	1979	50
Juneau	2019-03-19	maxt	59	1981	49
Juneau	2019-03-26	maxt	57	1941	51
Juneau	2019-03-27	maxt	55	1943	54
Juneau	2019-03-28	maxt	57	2011	52
Juneau	2019-03-29	maxt	53	1958	51
Juneau	2019-03-31	maxt	59	2016	58
Juneau	2019-03-16	mint	38	1947	37
Juneau	2019-03-17	mint	43	1995	38
Juneau	2019-03-18	mint	40	1961	39
Ketchikan	2019-03-17	avgt	46.5	1966	45.5
Ketchikan	2019-03-18	avgt	48.5	1961	46
Ketchikan	2019-03-18	maxt	60	1966	53
Ketchikan	2019-03-19	maxt	62	1914	61
Ketchikan	2019-03-20	maxt	66	1915	61
Ketchikan	2019-03-16	mint	42	1933	40
Ketchikan	2019-03-17	mint	45	1928	42
King Salmon	2019-03-25	avgt	45	1974	43.5
King Salmon	2019-03-30	maxt	52	1995	50
King Salmon	2019-03-31	maxt	54	2016	52
Kodiak	2019-03-16	avgt	43.5	1988	42
Kodiak	2019-03-17	avgt	43.5	1935	43
Kodiak	2019-03-27	avgt	42.5	1948	41.5
Kodiak	2019-03-26	maxt	52	1979	50
Kodiak	2019-03-16	mint	42	1984	39
Kodiak	2019-03-17	mint	41	1983	39
Kodiak	2019-03-27	mint	40	1983	39
Kotzebue	2019-03-05	avgt	27	2013	25.5
Kotzebue	2019-03-09	avgt	29.5	1984	23.5
Kotzebue	2019-03-25	avgt	34.5	1965	33.5

Kotzebue	2019-03-26	avgt	34	1965	32
Kotzebue	2019-03-27	avgt	31.5	1904	26.5
Kotzebue	2019-03-28	avgt	31	1987	28
Kotzebue	2019-03-29	avgt	31.5	1973	30.5
Kotzebue	2019-03-30	avgt	37	1936	26
Kotzebue	2019-03-31	avgt	35	1961	30.5
Kotzebue	2019-03-25	maxt	37	1979	36
Kotzebue	2019-03-26	maxt	37	1965	36
Kotzebue	2019-03-27	maxt	35	1973	33
Kotzebue	2019-03-30	maxt	39	1938	33
Kotzebue	2019-03-31	maxt	42	1961	38
Kotzebue	2019-03-05	mint	25	2013	23
Kotzebue	2019-03-09	mint	26	1987	18
Kotzebue	2019-03-26	mint	31	1965	28
Kotzebue	2019-03-27	mint	28	1904	23
Kotzebue	2019-03-28	mint	28	1987	22
Kotzebue	2019-03-29	mint	28	1898	22
Kotzebue	2019-03-30	mint	35	1936	22
Kotzebue	2019-03-31	mint	28	1961	23
McGrath	2019-03-25	avgt	40.5	1965	39.5
McGrath	2019-03-30	maxt	49	1961	48
McGrath	2019-03-25	mint	35	1965	33
Nome	2019-03-22	avgt	34	1965	32.5
Nome	2019-03-22	maxt	40	1983	37
Nome	2019-03-04	mint	27	1938	25
St. Paul Island	2019-03-26	avgt	36.5	1981	36
St. Paul Island	2019-03-27	avgt	37	1979	36
St. Paul Island	2019-03-29	avgt	39.5	1996	37
St. Paul Island	2019-03-27	maxt	41	1981	39
St. Paul Island	2019-03-29	mint	37	1967	33
Talkeetna	2019-03-16	avgt	38.5	1944	36.5
Talkeetna	2019-03-17	avgt	39.5	1998	38.5
Talkeetna	2019-03-18	avgt	42	1981	41.5
Talkeetna	2019-03-22	avgt	43.5	1965	41.5
Talkeetna	2019-03-24	avgt	40	1987	38.5
Talkeetna	2019-03-25	avgt	39	1970	38.5
Talkeetna	2019-03-28	avgt	39.5	1940	39
Talkeetna	2019-03-29	avgt	39.5	1926	38.5

Talkeetna	2019-03-18	maxt	49	1981	48
Talkeetna	2019-03-30	maxt	53	1936	51
Utqiagvik	2019-03-05	avgt	17	2018	13
Utqiagvik	2019-03-06	avgt	18	2003	10
Utqiagvik	2019-03-26	avgt	24.5	1904	21
Utqiagvik	2019-03-27	avgt	24	1904	20
Utqiagvik	2019-03-28	avgt	25.5	1954	23
Utqiagvik	2019-03-30	avgt	27	1954	17.5
Utqiagvik	2019-03-06	maxt	22	2018	21
Utqiagvik	2019-03-27	maxt	31	1904	26
Utqiagvik	2019-03-28	maxt	30	1954	29
Utqiagvik	2019-03-30	maxt	33	1934	31
Utqiagvik	2019-03-05	mint	12	2018	4
Utqiagvik	2019-03-06	mint	14	2003	1
Utqiagvik	2019-03-26	mint	17	1979	12
Utqiagvik	2019-03-27	mint	17	1904	14
Utqiagvik	2019-03-28	mint	21	1954	17
Utqiagvik	2019-03-30	mint	21	1954	14
Yakutat	2019-03-16	avgt	41.5	1981	40.5
Yakutat	2019-03-17	avgt	44	1981	40
Yakutat	2019-03-18	avgt	46	1981	43
Yakutat	2019-03-19	avgt	47.5	1998	40
Yakutat	2019-03-20	avgt	46.5	1998	41.5
Yakutat	2019-03-21	avgt	47.5	1981	44
Yakutat	2019-03-22	avgt	47.5	1981	43.5
Yakutat	2019-03-23	avgt	43.5	2016	42
Yakutat	2019-03-19	maxt	60	1918	53
Yakutat	2019-03-20	maxt	58	1981	54
Yakutat	2019-03-21	maxt	57	1998	53
Yakutat	2019-03-26	maxt	60	1940	57
Yakutat	2019-03-27	maxt	53	1941	51
Yakutat	2019-03-31	maxt	59	2016	57
Yakutat	2019-03-16	mint	39	1947	37
Yakutat	2019-03-17	mint	40	1932	37
Yakutat	2019-03-18	mint	44	1961	37
Yakutat	2019-03-22	mint	43	1931	39
Yakutat	2019-03-23	mint	41	1931	40

