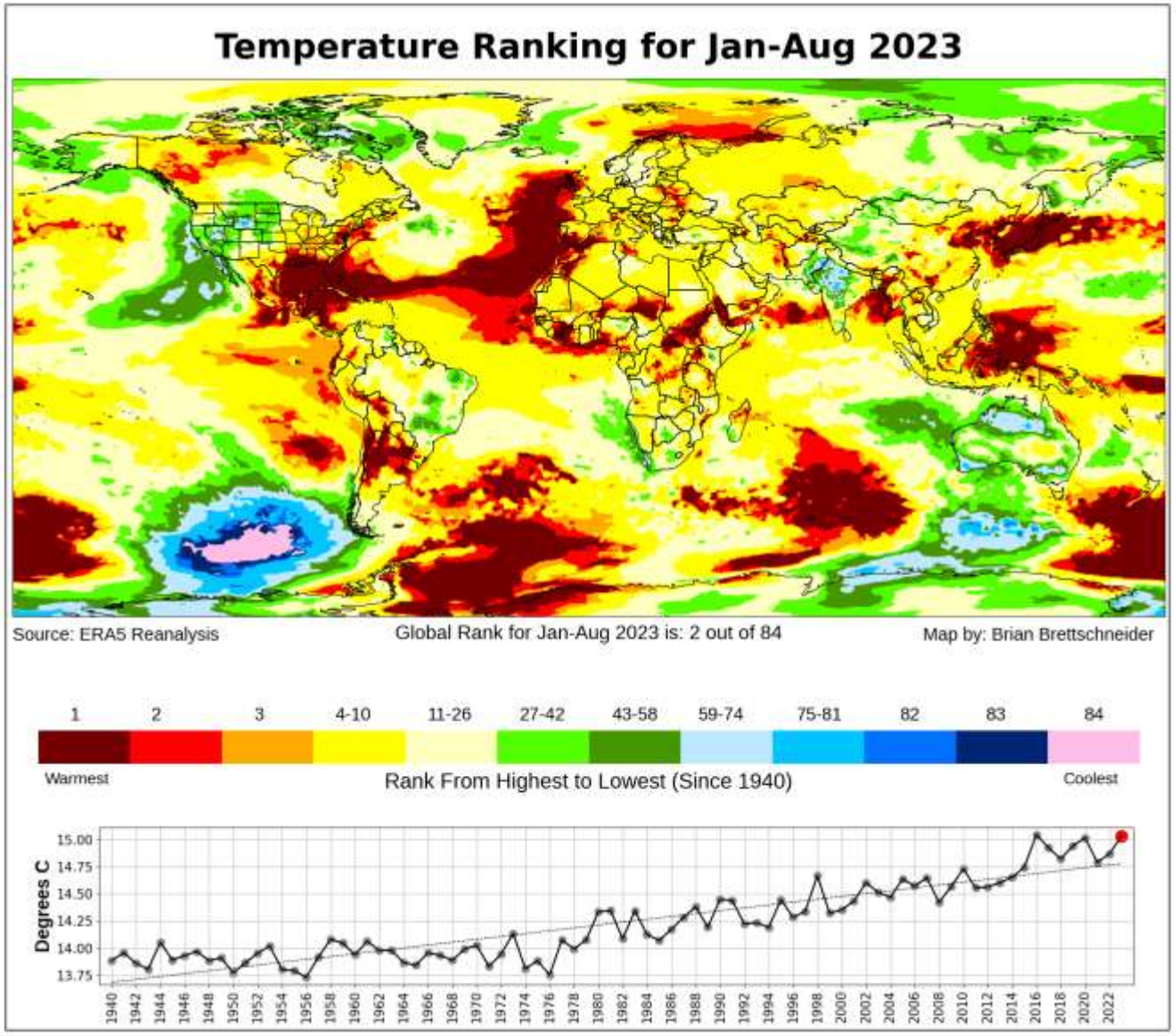
Rank Map Examples

Global Jan-Aug 2023 Temperature Ranking

Uses full period of record
Metric values time series strip on bottom
No other map elements added



NOTE: The page *should* grab new monthly data on the 6th or 7th of the new month.

Select Map Area (1-10): 1

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) ☐ Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North ☑
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)
Country India
Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1940

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 1

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States ☐ U.S. Counties ☐ Canada Provinces ☐
Major Rivers ☐ U.S. Interstates ☐ Gridlines ☐
NWS WFOs ☐ NPS Units ☐ Climate Divs ☐
Major World Cities ☐ World Roads (adds 1:00) ☐

Last month to start evaluation (e.g., 2 for Feb): 8

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb): 8

Year of last month for assessment: 2023

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 1
Show Values or Departure strip (1=Yes, 2=No): 1

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years) ☑

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 1

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

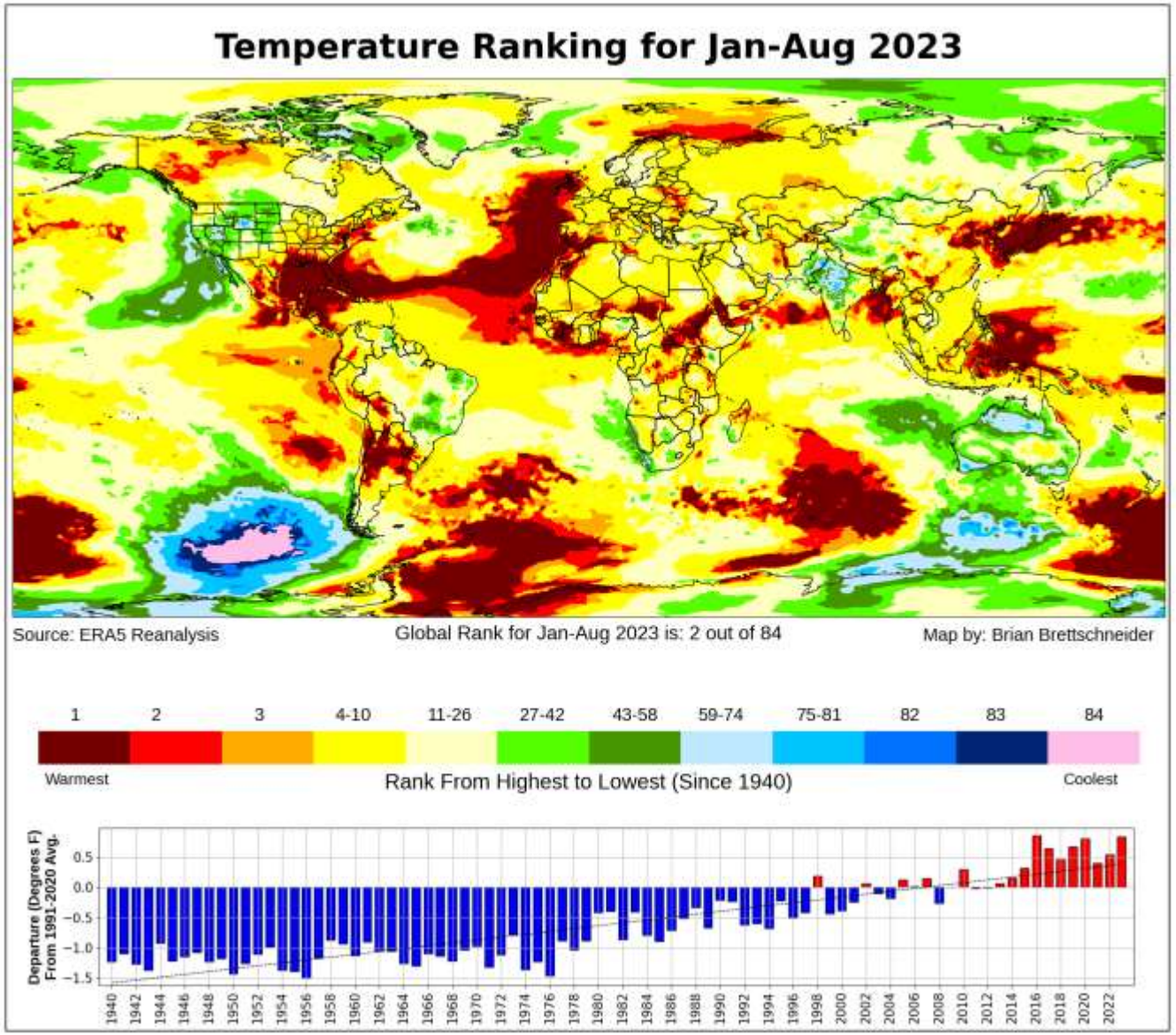
Dark Mode : ☐

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

Global Jan-Aug 2023 Temperature Ranking

Uses full period of record
Imperial departure time series strip on bottom
No other map elements added



Select Map Area (1-10) 1

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) ☐ Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North ☑
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)
Country India
Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1940

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 1

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States ☐ U.S. Counties ☐ Canada Provinces ☐
Major Rivers ☐ U.S. Interstates ☐ Gridlines ☐
NWS WFOs ☐ NPS Units ☐ Climate Divs ☐
Major World Cities ☐ World Roads (adds 1:00) ☐

Last month to start evaluation (e.g., 2 for Feb) 8

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb) 8

Year of last month for assessment: 2023

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 2
Show Values or Departure strip (1=Yes, 2=No): 1

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years) ☑

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 2

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

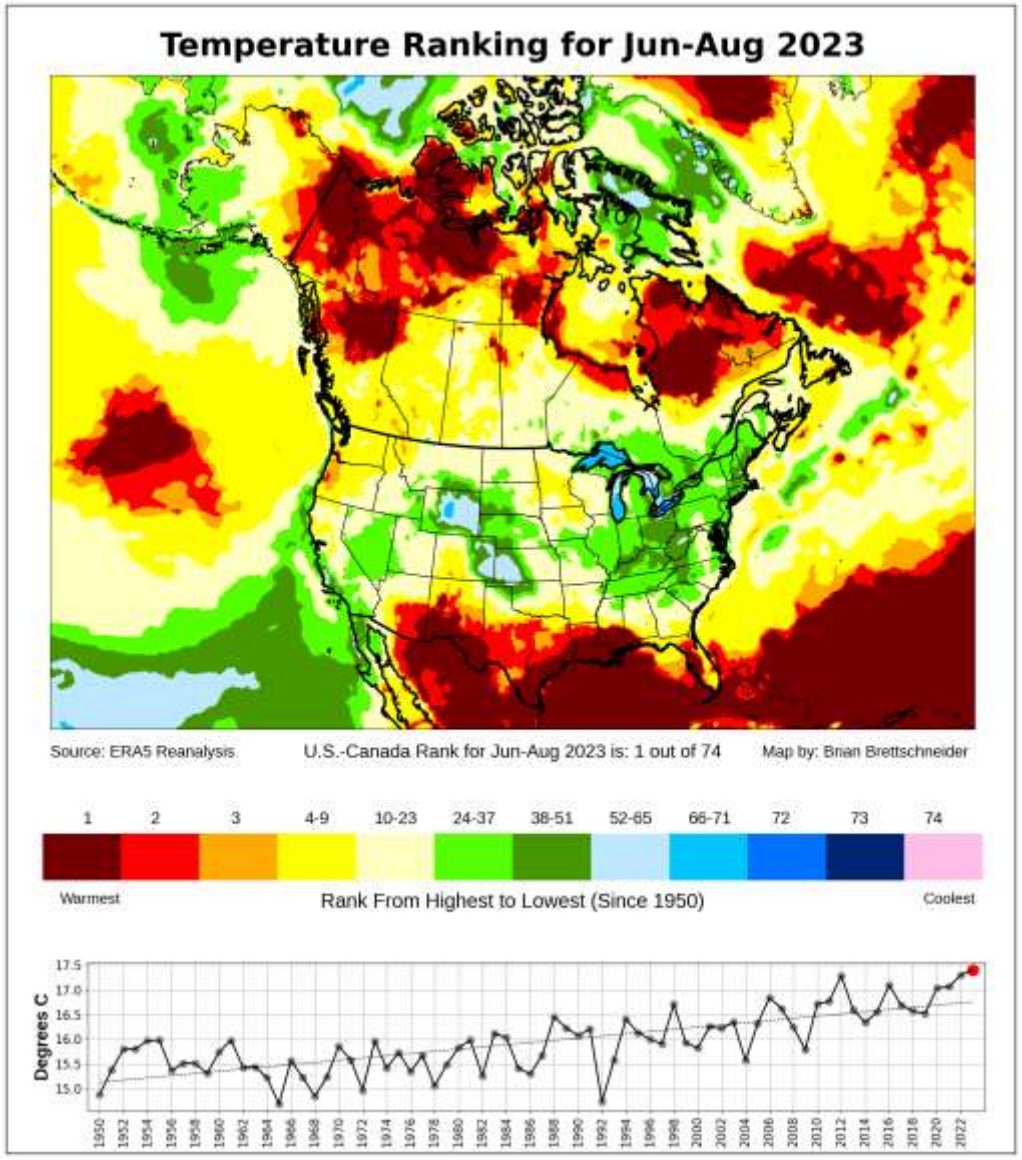
Dark Mode : ☐

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

US-Canada Jun-Aug 2023 Temperature Ranking Since 1950

Uses 1950-preset period of record
Metric values time series strip on bottom
Added U.S. states and Canadian provinces



Select Map Area (1-10): 2

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) ☐ Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North ☑
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)
Country India
Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1950

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 1

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States ☑ U.S. Counties ☐ Canada Provinces ☑
Major Rivers ☐ U.S. Interstates ☐ Gridlines ☐
NWS WFOs ☐ NPS Units ☐ Climate Divs ☐
Major World Cities ☐ World Roads (adds 1:00) ☐

Last month to start evaluation (e.g., 2 for Feb): 8

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb): 3

Year of last month for assessment: 2023

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 1
Show Values or Departure strip (1=Yes, 2=No): 1

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years) ☑

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 1

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

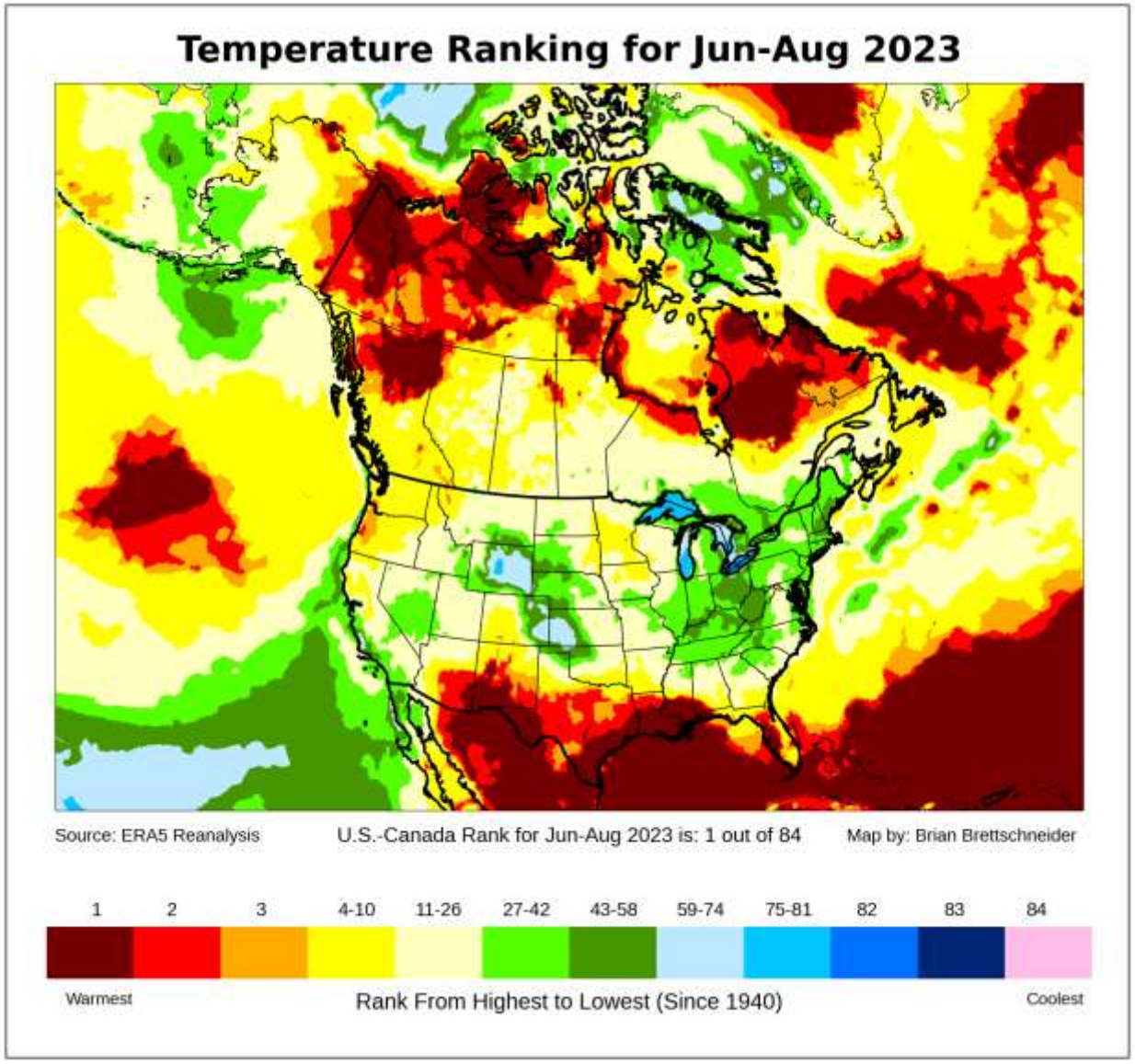
Dark Mode : ☐

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

US-Canada Jun-Aug 2023 Temperature Ranking

Uses full period of record
No values/departure strip on bottom
Added U.S. states and Canadian provinces



Select Map Area (1-10): 2

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)
Country India
Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1940

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 1

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States U.S. Counties Canada Provinces
Major Rivers U.S. Interstates Gridlines
NWS WFOs NPS Units Climate Divs
Major World Cities World Roads (adds 1:00)

Last month to start evaluation (e.g., 2 for Feb): 8

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb): 3

Year of last month for assessment: 2023

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 1
Show Values or Departure strip (1=Yes, 2=No): 2

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years)

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 1

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

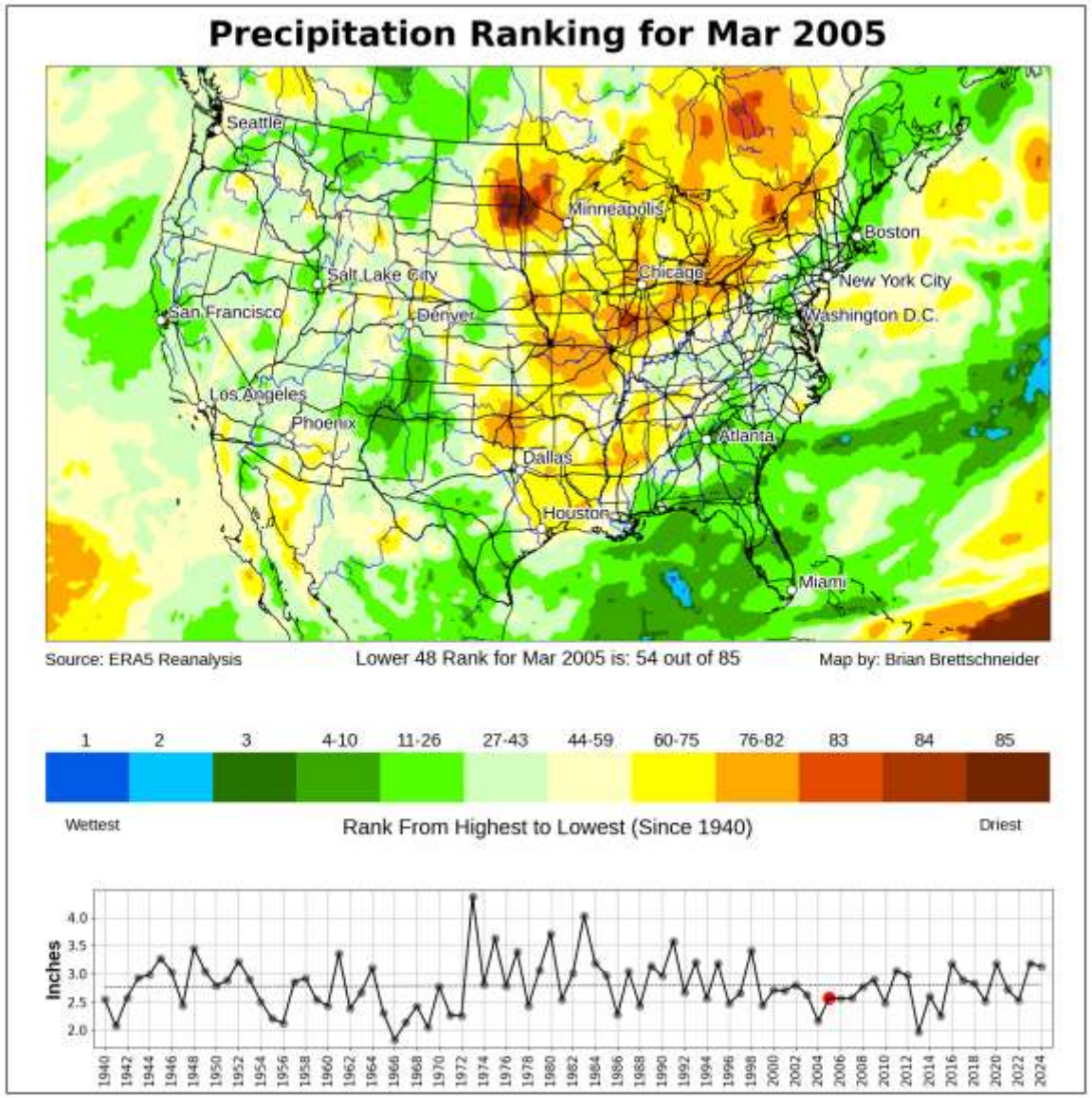
Dark Mode :

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

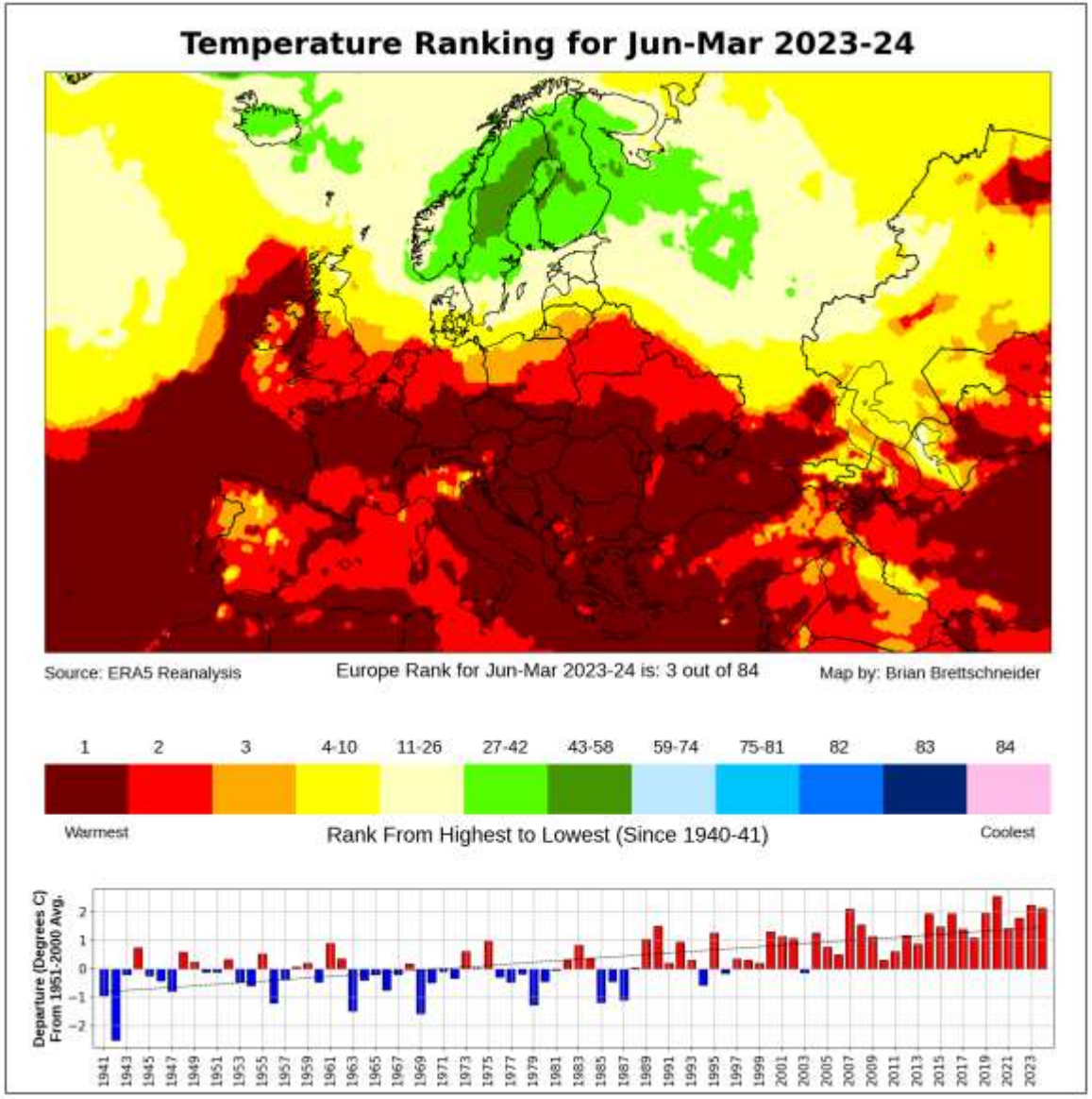
Contiguous U.S. March 2005 Precipitation Ranking

Uses full period of record
Imperial values time series strip on bottom
Added U.S. states, major rivers, and interstates



Europe Jun 2023-Mar 2024 Temperature Ranking

Uses full period of record
Metric values departure from 1951-2000 normal
No other map elements added



Select Map Area (1-10): 7

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)
Country India
Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1940

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 1

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States U.S. Counties Canada Provinces
Major Rivers U.S. Interstates Gridlines
NWS WFOs NPS Units Climate Divs
Major World Cities World Roads (adds 1:00)

Last month to start evaluation (e.g., 2 for Feb): 3

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb): 10

Year of last month for assessment: 2024

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 2
Show Values or Departure strip (1=Yes, 2=No): 1

Begin Climo 1951 **End** Climo 2000

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years)

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 1

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

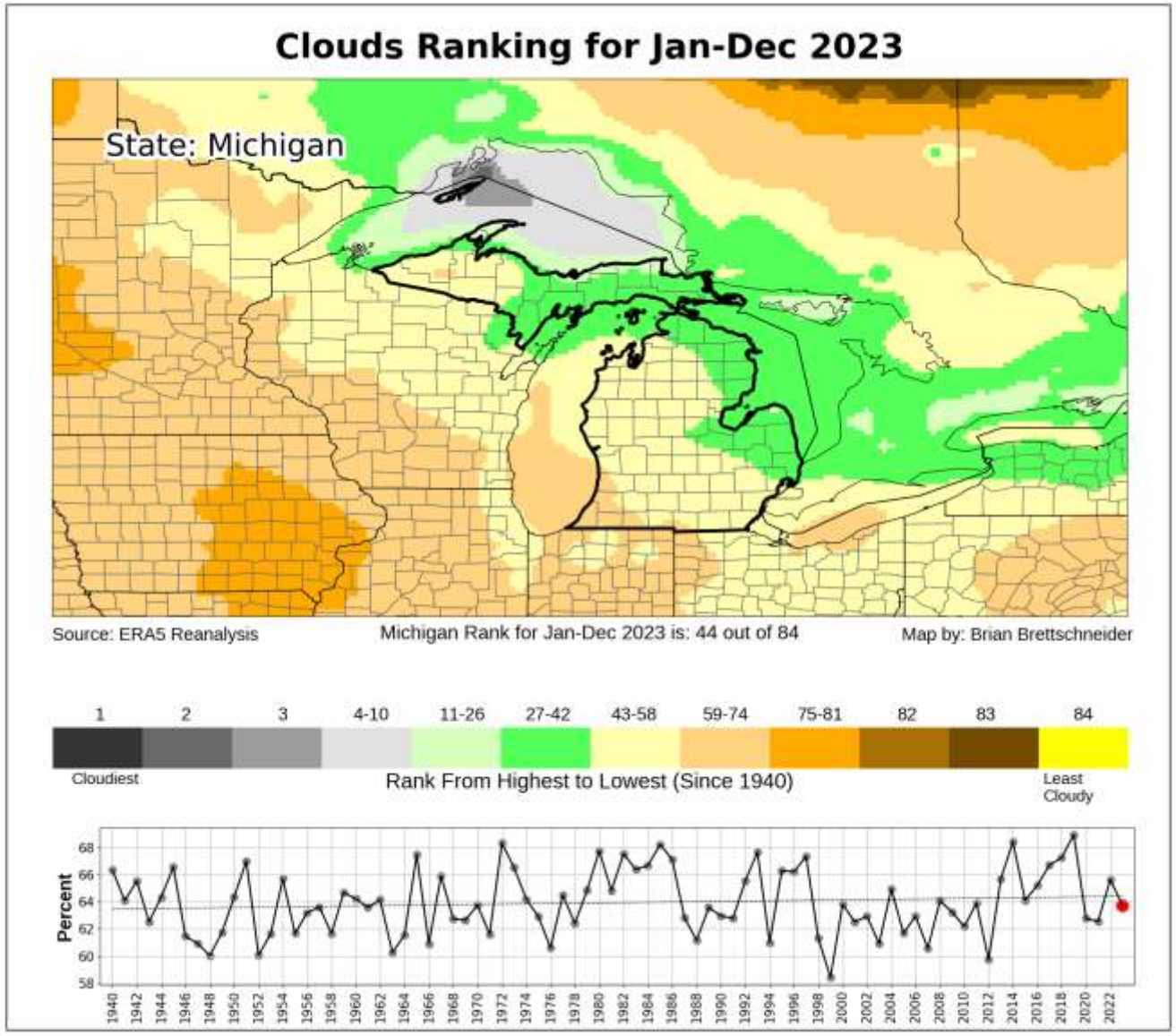
Dark Mode :

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

Michigan Jan-Dec 2023 Clouds Ranking

Uses full period of record
Time series is always percent for clouds
States, Canadian provinces, and counties added



Select Map Area (1-10) 10

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)

State Michigan

Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1940

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8) 6

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States U.S. Counties Canada Provinces
Major Rivers U.S. Interstates Gridlines
NWS WFOs NPS Units Climate Divs
Major World Cities World Roads (adds 1:00)

Last month to start evaluation (e.g., 2 for Feb) 12

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb) 12

Year of last month for assessment: 2023

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 1
Show Values or Departure strip (1=Yes, 2=No): 1

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years

Map Subtitle (used when a list of years is entered) 20 chars or less

Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years)

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 1

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

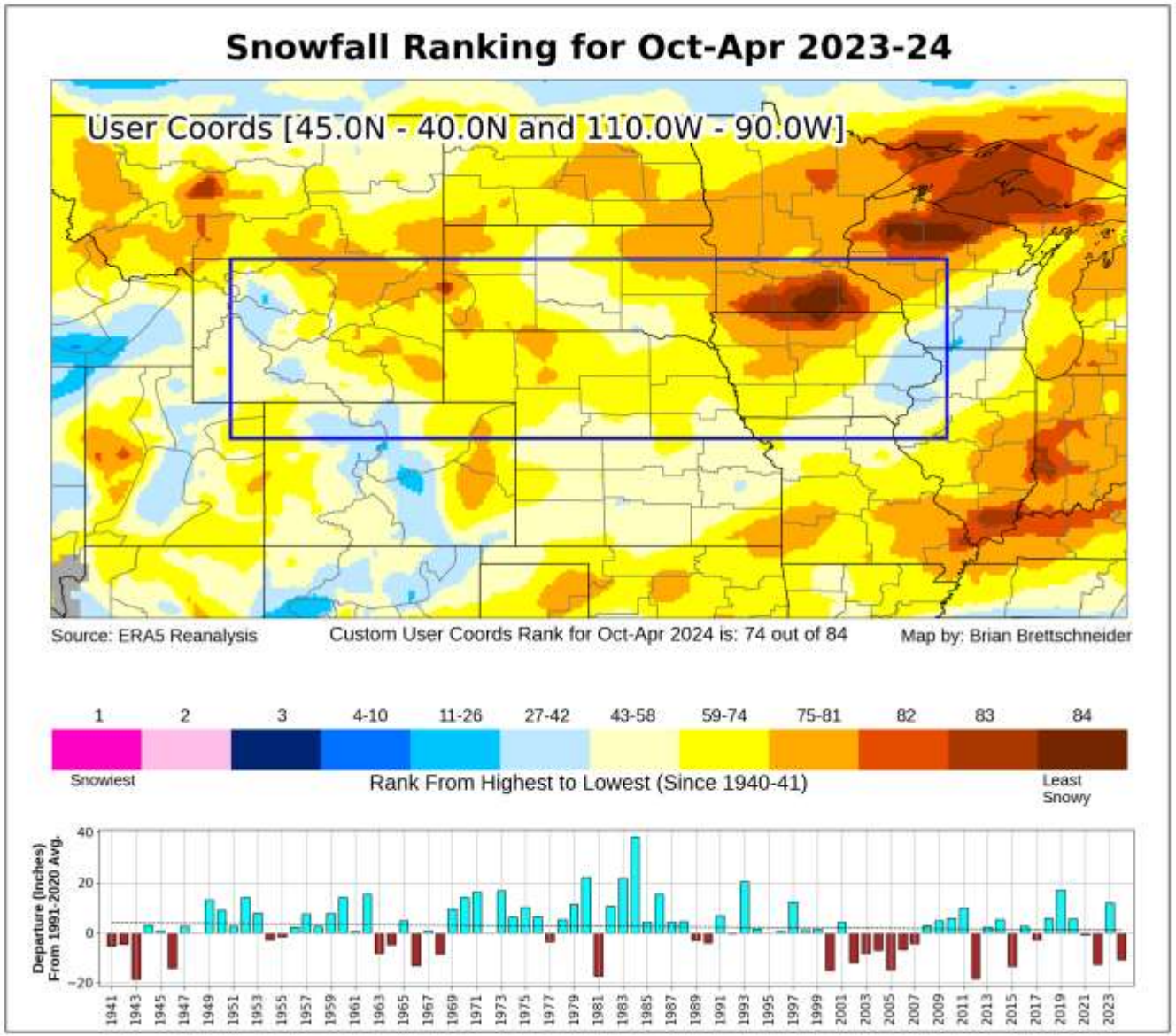
Dark Mode :

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

User-Defined Box Oct 2023-Apr 2024 Snowfall Ranking

Uses full period of record
Imperial departure time series strip on bottom
States, Canadian provinces, and climate divisions added



Select Map Area (1-10): 10

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) ☐ Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North ☑
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)

Box,45,40,-110,-90

Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1940

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 3

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States ☑ U.S. Counties ☐ Canada Provinces ☐
Major Rivers ☐ U.S. Interstates ☐ Gridlines ☐
NWS WFOs ☐ NPS Units ☐ Climate Divs ☑
Major World Cities ☐ World Roads (adds 1:00) ☐

Last month to start evaluation (e.g., 2 for Feb): 4

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb): 7

Year of last month for assessment: 2024

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 2
Show Values or Departure strip (1=Yes, 2=No): 1

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years) ☑

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 2

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

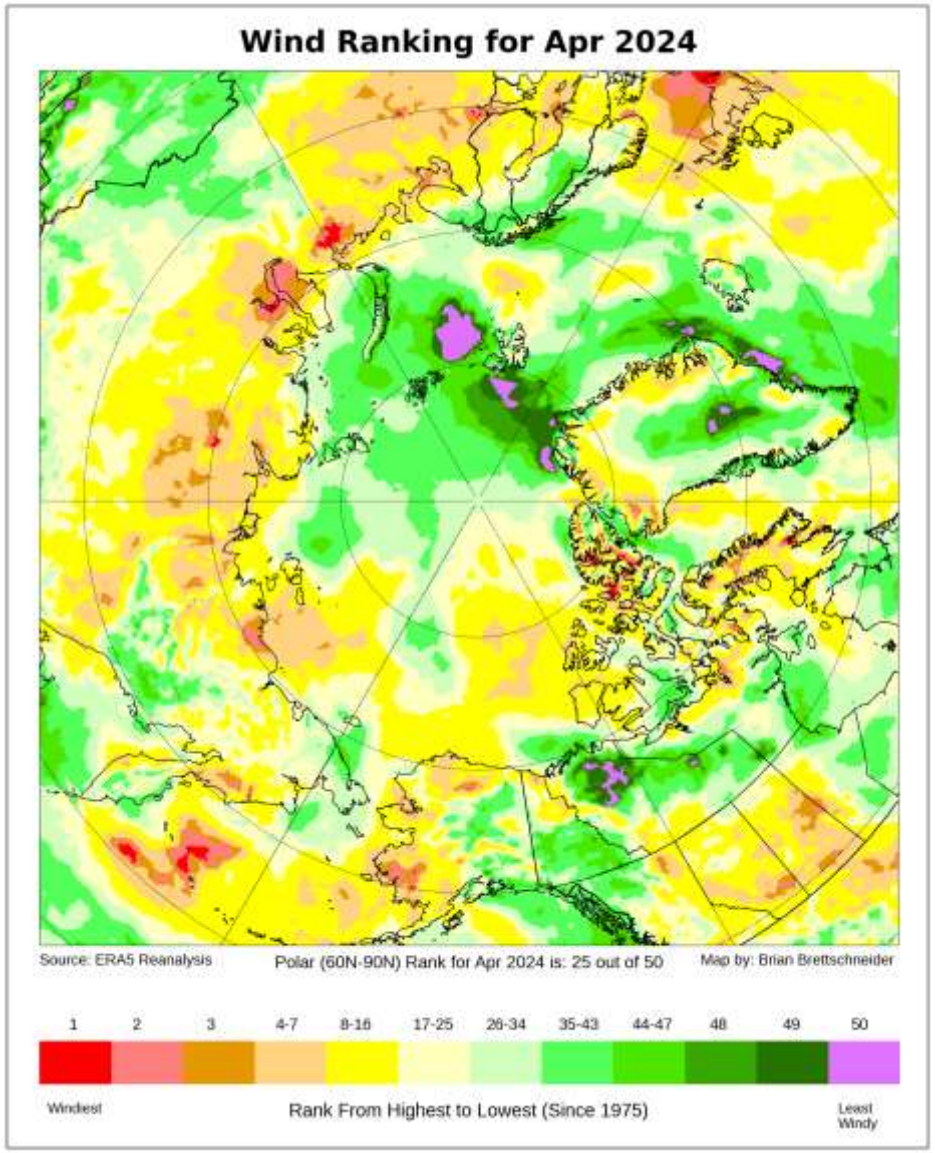
Dark Mode : ☐

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

North Polar Apr 2024 Wind Ranking

Uses 1975-preset period of record
Centered on N. Pole; Central Meridian in 150W.
Canadian provinces and gridlines added. No time series strip.



Select Map Area (1-10): 6

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) ☐ Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North ☑
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)
Global
Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year: 1975

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 7

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States ☐ U.S. Counties ☐ Canada Provinces ☑
Major Rivers ☐ U.S. Interstates ☐ Gridlines ☑
NWS WFOs ☐ NPS Units ☐ Climate Divs ☐
Major World Cities ☐ World Roads (adds 1:00) ☐

Last month to start evaluation (e.g., 2 for Feb): 4

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb): 1

Year of last month for assessment: 2024

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 1
Show Values or Departure strip (1=Yes, 2=No): 2

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only): -150
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years) ☑

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 1

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

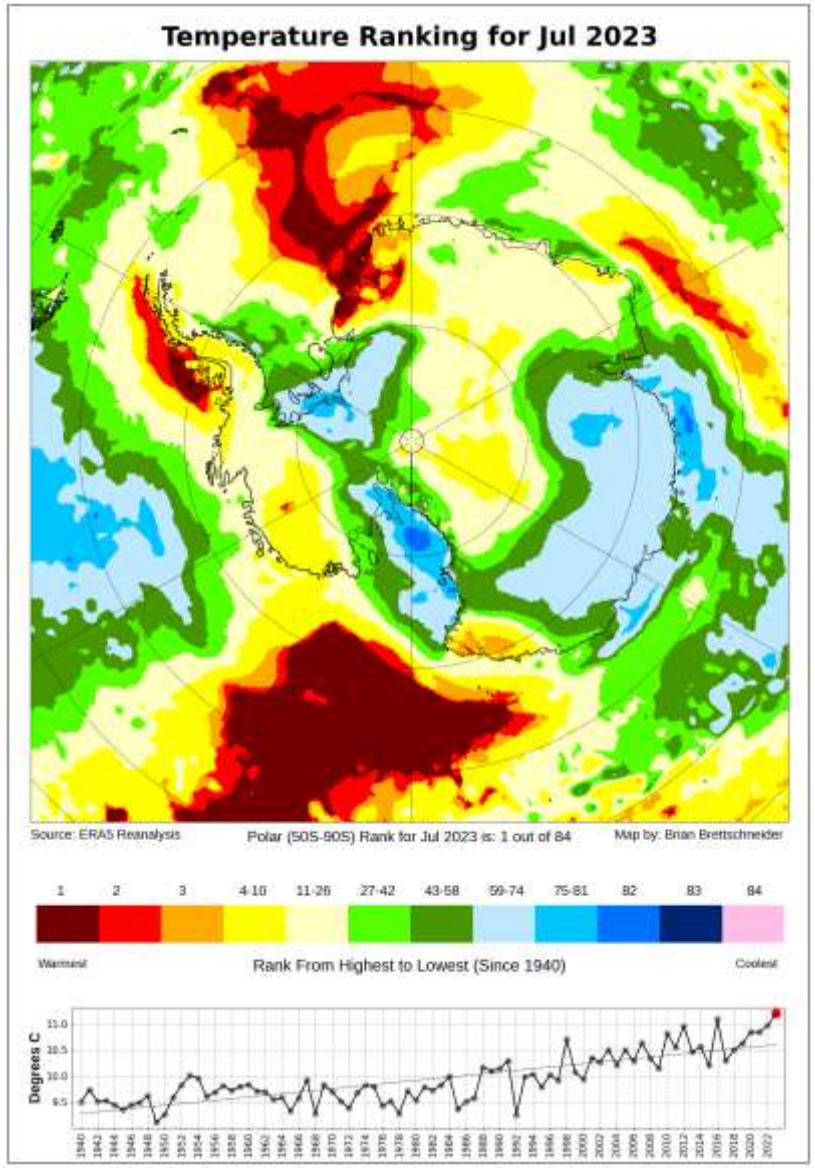
Dark Mode : ☐

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

South Polar July 2023 Temperature Ranking

Uses full period of record
Centered on S. Pole; Central Meridian in 0 E/W.
Metric values time series strip on bottom, Gridlines added.



Select Map Area (1-10): 6

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) ☐ Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) 50 to 90) North ☐
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)
Global
Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1940

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 1

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States ☐ U.S. Counties ☐ Canada Provinces ☐
Major Rivers ☐ U.S. Interstates ☐ Gridlines ☑
NWS WFOs ☐ NPS Units ☐ Climate Divs ☐
Major World Cities ☐ World Roads (adds 1:00) ☐

Last month to start evaluation (e.g., 2 for Feb): 7

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb): 1

Year of last month for assessment: 2023

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 1
Show Values or Departure strip (1=Yes, 2=No): 1

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo: Use Detrended Climatology (ONI or list of years) ☑

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 1

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

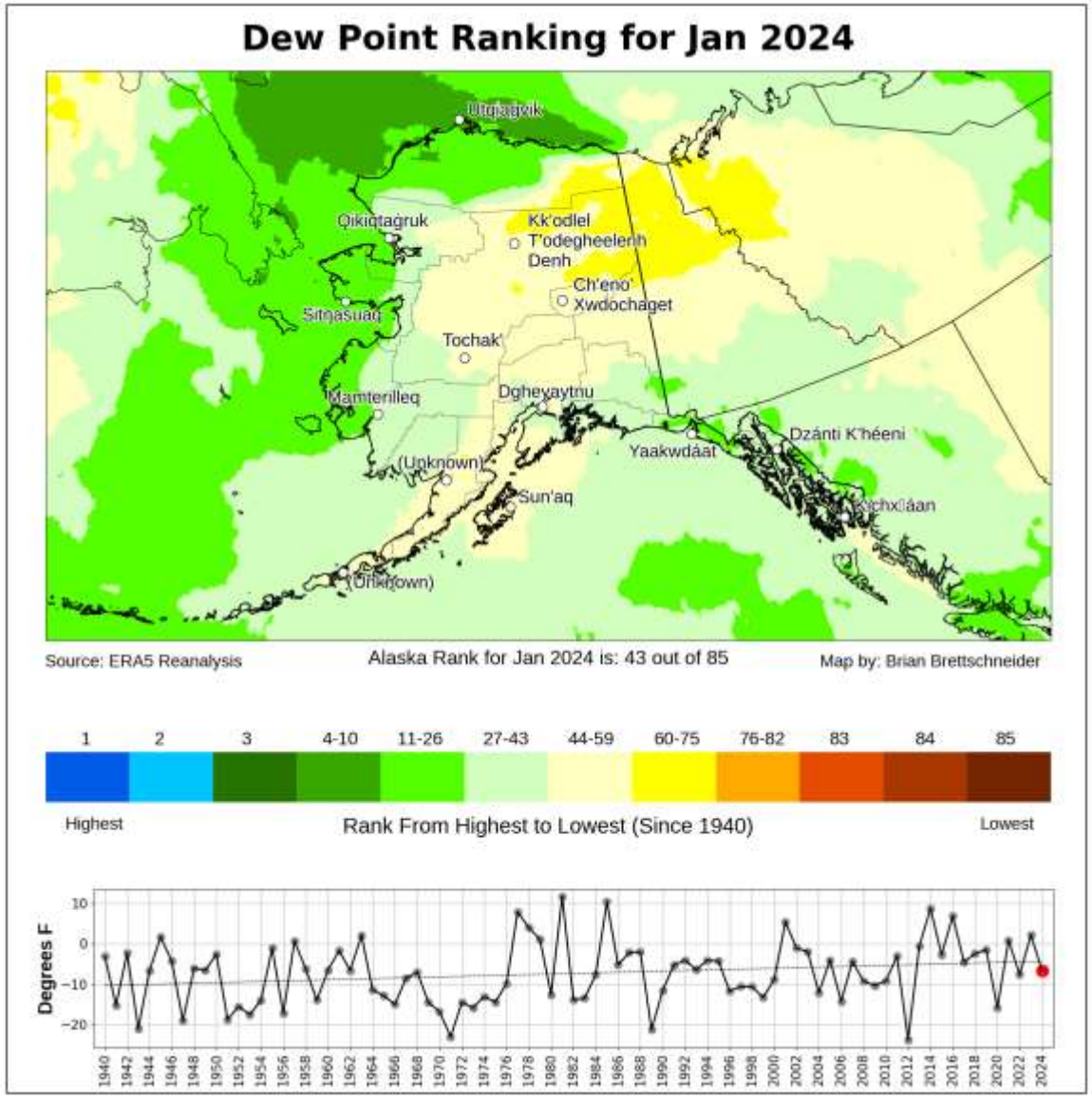
Dark Mode : ☐

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)

Alaska January 2024 Dew Point Ranking

Uses full period of record
Imperial values time series strip on bottom
States, Canadian provinces, counties, indigenous names added



Select Map Area (1-10): 4

1 = Global (time: 0:30 to 1:20)
2 = U.S./Canada (time: 0:30 to 1:40)
3 = Contiguous U.S. (time: 0:30 to 1:50)
4 = Alaska (time: 0:30 to 1:30) Indigenous names
5 = Alaska and NW Canada (time: 0:30 to 1:15)
6 = Polar (time: 0:30 to 1:30) (60 to 90) North
7 = Europe (time: 0:30 to 1:20)
8 = Pacific Northwest (time: 0:30 to 1:35)
9 = U.S. Pacific Islands (time: 0:30 to 1:25)
10 = Country, State, Province, or Box (all Plate Carree)
Global
Countries (e.g., Country New Zealand)
States (e.g., State New York)
Canada provinces/territories (e.g., Canada Manitoba)
Box, N. Lat, S. Lat, W. Lon, E. Lon (Example: Box,45,25,-120,-50)

Select Map Type (1-9): 1

1 = Ranks (since 1940)
2 = Departure From Normal (not clouds/wind)
3 = Below, Near, Above Normal (slower)
4 = Target Year Values (not wind)
5 = Normal Values (not wind)
6 = 50 or 75-Year trend (8-10 mins for new run)
7 = 50-Year ENSO Season Correlation (6-10 mins for new run)
8 = SPI (precip auto selected; 8-mins for new run)
9 = Composite ENSO or List of Years (6-mins for new run)

Ranks / trend start year 1940

Note: For periods that wrap around New Year, the start year should by the year at the start of the period. For 1974-75 to 2023-24, (50 years), enter 1974 here (end year should be most current year).

Choose Map Theme (1-8): 5

Available themes: 1 = t2m, 2 = precip, 3 = snow, 4 = sst , 5 = dewpt, 6 = clouds, 7 = wind, 8 = seaice

Map Elements (Check top row for most N. American maps)
Lower 48 States U.S. Counties Canada Provinces
Major Rivers U.S. Interstates Gridlines
NWS WFOs NPS Units Climate Divs
Major World Cities World Roads (adds 1:00)

Last month to start evaluation (e.g., 2 for Feb): 1

Number of months (up to 12) to evaluate (e.g., 3 for Dec-Feb): 1

Year of last month for assessment: 2024

Note 1: Do not select a date in the future!
Note 2: Make sure that your period is not 1939-40. There is no 1939 data.
Note 3: Even when generating normals, make sure not to pick a date in the future.

Values or Departure strip (1=Values, 2=Departure): 1
Show Values or Departure strip (1=Yes, 2=No): 1

Begin Climo 1991 **End** Climo 2020

Central Longitude (Arctic Only) 0
(Used for Map Type options 2 and 3 above)

ENSO Section Only ONI Min -5.0 ONI Max 5.0 [Use to select from a range of average ONI val; or enter list of years manually below.]

OR List of years
Map Subtitle (used when a list of years is entered) 20 chars or less
Above/Below (1=Above/2=Below): 1 100.0 From Climo. Use Detrended Climatology (ONI or list of years)

[Note 1: Only Used if Map Type is 9. Takes 6 mins for new query. Min of 4+ years and separated by commas has priority. For DJF use end year.]
[Note 2: For the count of years above the trendline, units are % avg for snow and precip and clouds. Specify units below for temp, dew pt, and wind.

Units -> Metric or Imperial (1 = Metric, 2 = Imperial): 2

Temp/Wind Departure/Temp Trend Interval 1.0 (Makes 11 categories of Map Interval size.)

Dark Mode :

Raw data obtained from Copernicus ECMWF Server. Analysis may not be accurate. **Use at your own risk!**

Generate (to reset form, select map area 0 and press button)