

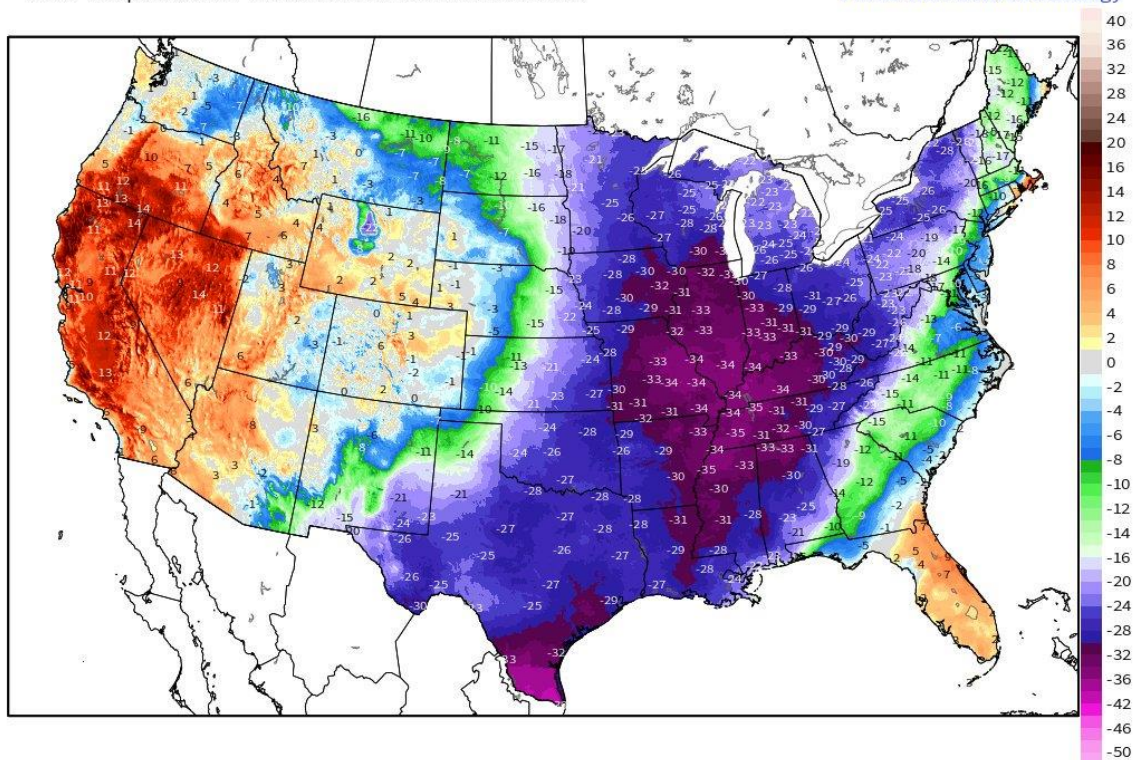
Unsettling 150 Year Cold in Our Crop Zones



Forecast maps displaying ridiculous below normal temperatures of more than 30°F, this early in the season.

NWS NDFD High Temperature Anomaly [°F] 2019111213
HIGH Temperature for Tue 12NOV2019 thru 00Z13NOV2019

MIN|MAX ANOM: -41.3° | 27.5°F
PRISM 1987-2016 Climatology



Last year 2019 even on October 31st, Midwest farm fields were blanketed in deep early snow for the third year in a row, as shown in this aerial image; and that hindered the harvests. Following that the coldest Polar Blast in 150 years a century-and-a-half, swept through during this integral time of harvest. A shift is now setting in place with extreme snow and cold during the final maturation stage of crops in the fields, exactly the same areas as the Maunder Minimum 1640-1710.

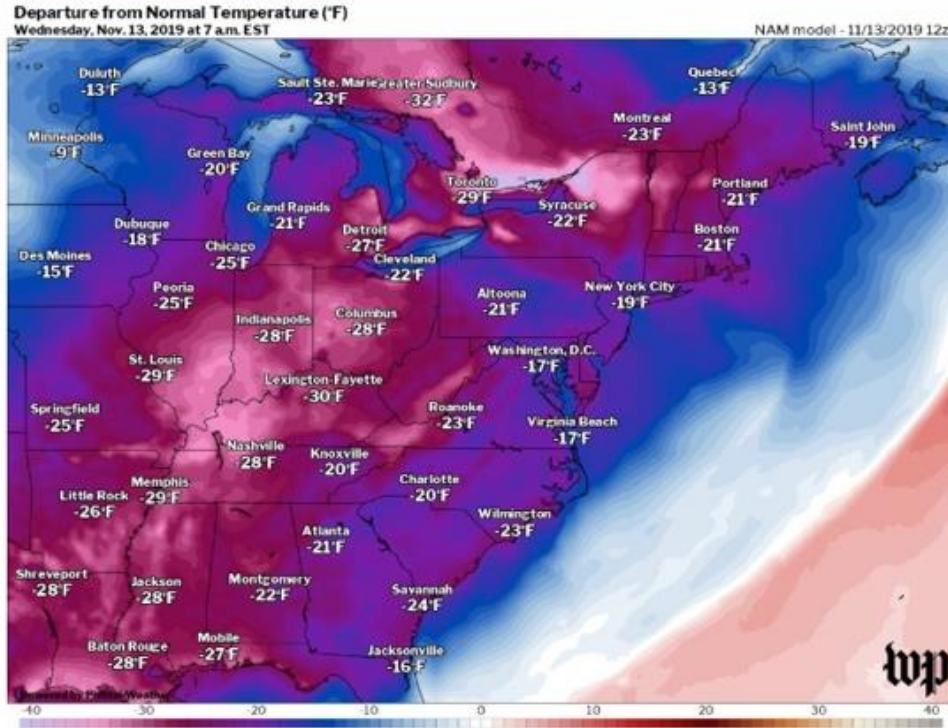


Washington Post reported this as the most severe early November *cold snap in more than a century*, but I think they are still under reporting this.

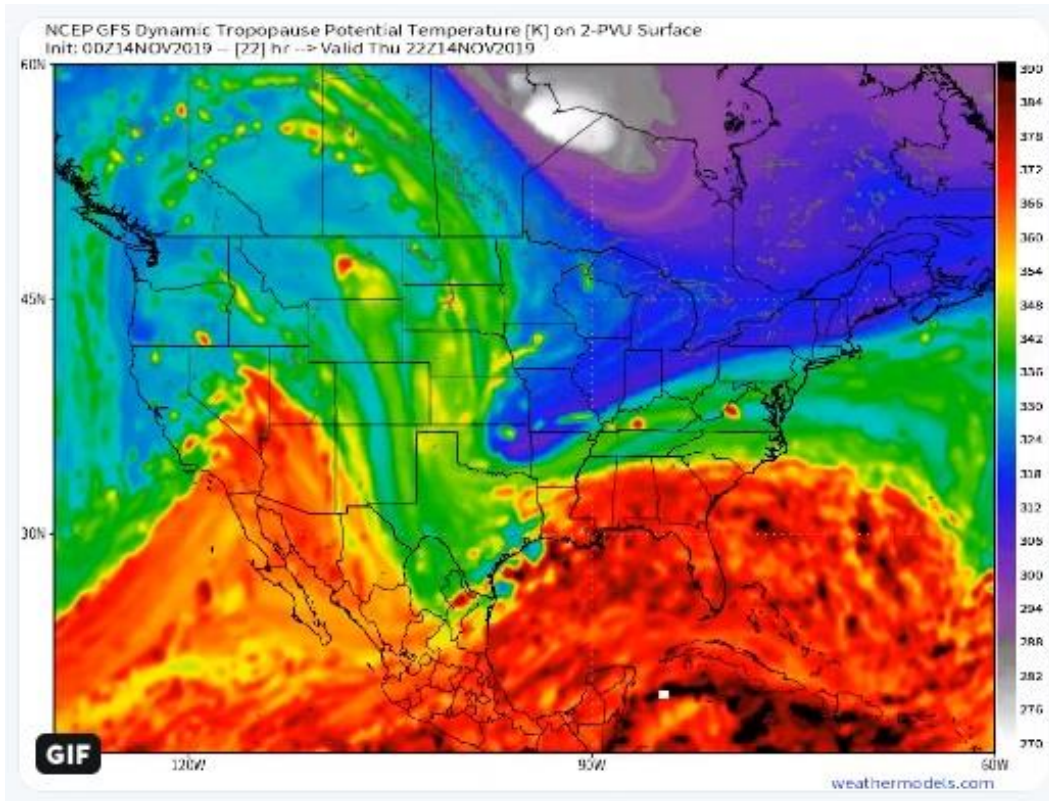
WaPo keep using the word 'cold snap' as a description, and seem to refuse to write the exact time scale, which is a century and a half. Anyhow, this broke all records as far back as our nation has, all records from all the temperature stations across the United States, including some of the oldest temperature stations in the Northeast US. Somehow it was a cold snap.

Cold snap of historic proportions hits East Coast, over 300 records fall

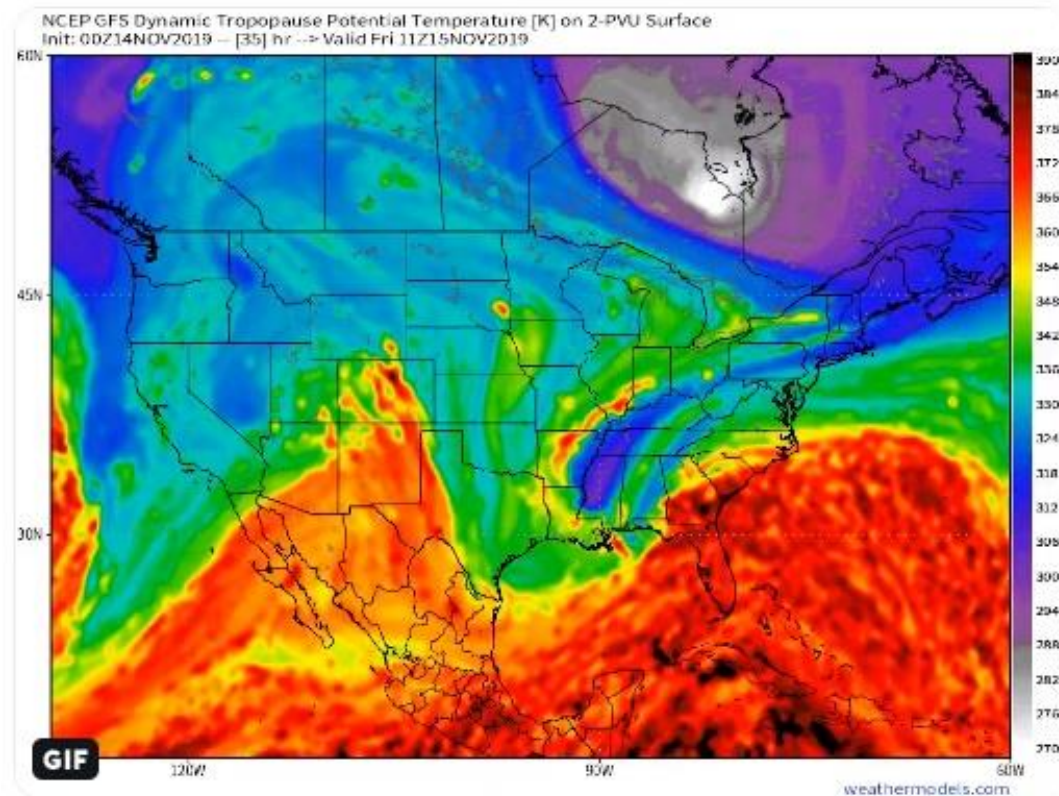
The most severe early November cold snap in more than a century has plowed over the East Coast, where record low temperatures were set in the majority of population centers Wednesday morning.



Arctic temperatures in Autumn stretched all the way to the Gulf of Mexico.



As shown in this tropopause model, broken off pocket of extreme cold polar air, seen as white blob on the map, is at the border of Canada and the US, south of Hudson Bay. Hence, there are two areas of ripping cold.



Spooky Sea smoke forms over the Gulf of Mexico as polar air moves over warm Gulf waters.



Kaitlin Wright
@wxkaitlin

Follow

Sea smoke over the Gulf of Mexico as the very cold air moves over warmer water. It has been 663 days (Jan. 19th, 2018) since Pensacola has recorded a temperature this low as we sit at a chilly 30 degrees! #NWFL #flwx



3:54 AM - 13 Nov 2019

On top of that, the 24-hour temperature change was as much as 32°F in a single 24-hour shift.



Kaitlin Wright @wxkaitlin · Nov 12

11:30 am - Quite the temperature change! Yesterday #NWFL was in the 70s, now we have wind chills in the 30s with actual temperatures in the 40s. Bundle up! #flwx #alwx



Stunning photos from Kaitlin show the cold front blasting ahead. I think some of us recognize exactly what those clouds are with dissipating striations in ghostly angelic clouds.



Kaitlin Wright @wxkaitlin · Nov 7

Clouds are moving quickly ahead of the cold front, but how gorgeous! #NWFL #flwx



Fun fact from the National Weather Service, New Orleans, 13th of November had morning low temperatures that smashed *all of last winter's temperatures*, including January, February, and the entire coldest depths of 2018-2019 winter. Take heed, it is not even the second half of November, and it still broke every cold record in the southeast US. Do you see a pattern of cold far above the normal is different areas of the N. America?



NWS New Orleans @NWSNewOrleans · Nov 13

Fun fact... It was as cold or colder this morning at all of our NWS automated (ASOS) sites than it was during all of last winter. 🤯🤯 #Novembrrrr #lawx #mswx

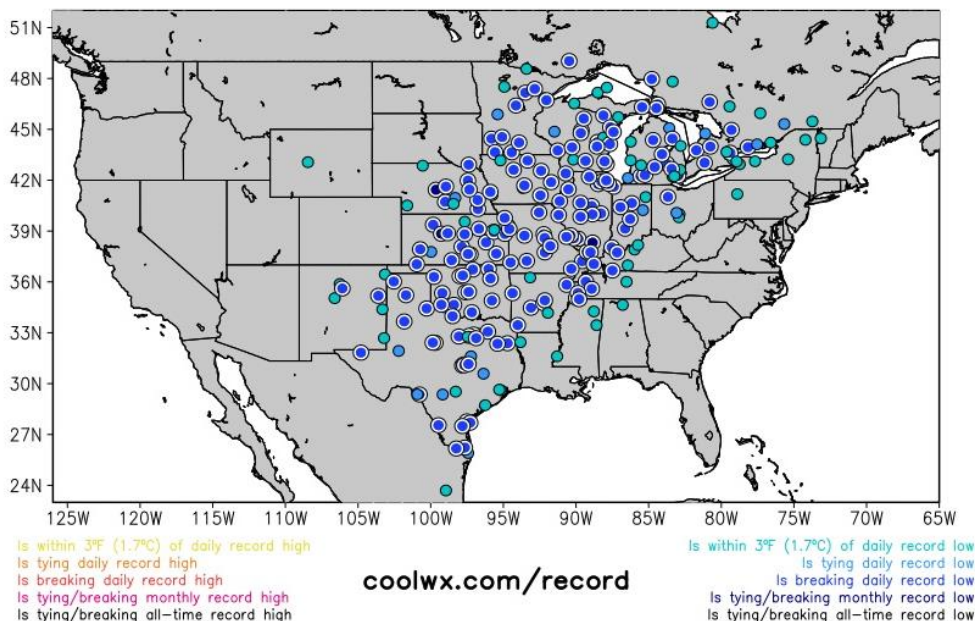
This morning's lows compared to all of last winter...

Observation Site	Last Winter's Low	This Morning's Low
McComb (MCB)	24	23
Baton Rouge (BTR)	27	24
Pascagoula (PQL)	28	28
Slidell (ASD)	29	25
Gulfport (GPT)	30	27
Lakefront Airport (NEW)	36	32
New Orleans Int'l (MSY)	36	34

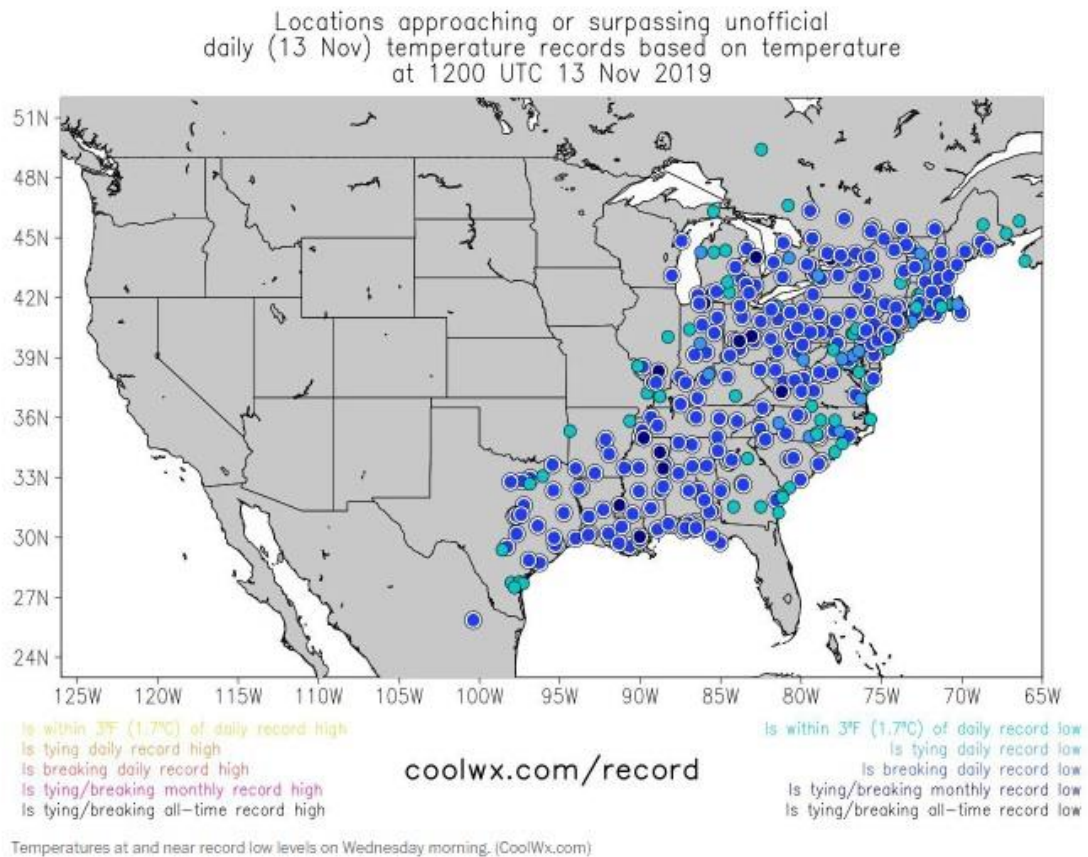
NWS New Orleans/Baton Rouge

You can see how this cold front swept across the US, even without looking at the temperature gradients or the GFS models. Just follow the low temperature records smashed, as this moved through the central Midwest Plains and over the crop growing zones from the east coast down to the Gulf of Mexico.

Locations approaching or surpassing unofficial daily (12 Nov) temperature records based on temperature at 1100 UTC 12 Nov 2019



As for Mexico, this is the coldest in almost 200 years, breaking thousands of old cold records this early in the season, thus, using 'unprecedented' to describe this is still an understatement.



By the way, *Maxar* have a full list of 'extremes' like this. This site is maintained by the Midwest Regional Climate Center, and to be included in the list, an anomaly has to be way above a certain anomaly.



Maxar | Weather Desk

@Maxar_Weather

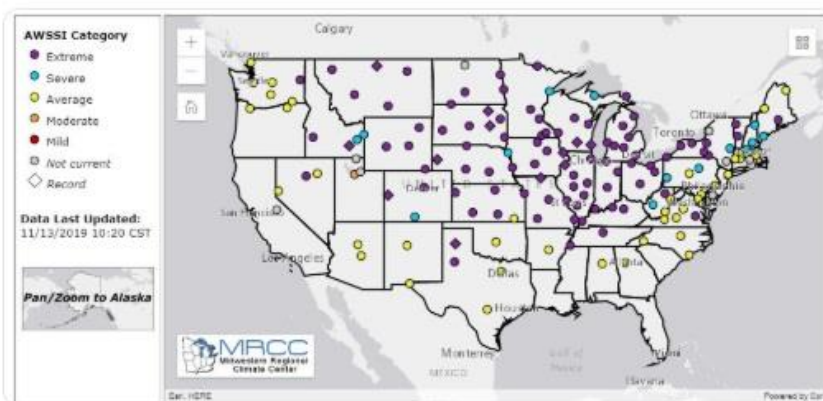
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Lots of cities are in the "extreme" category of @MRCC's Accumulated Winter Season Severity Index

([mrcc.illinois.edu/research/awssi ...](http://mrcc.illinois.edu/research/awssi...)) early on.

A record start in Milwaukee (12.9" of snow and -12.0° anomaly since Oct 29) and

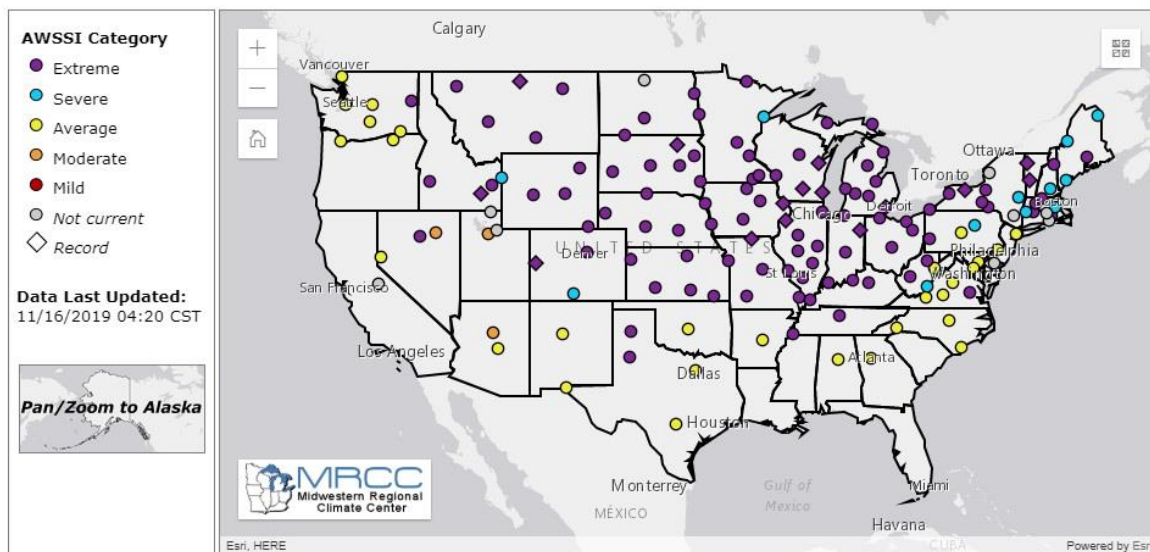
Amarillo (5.5" of snow, -11.9° anomaly since Oct 24) among others.



9:17 AM - 13 Nov 2019

FYI: An 18°F difference or more is required to be included in the "extreme" category; and dark purple dots in the map are where the extreme conditions happened. As shown, these are at 35-40°F under the normal temperatures. By the way, I like focusing a little bit in the Northeast US because they have the longest temperature records.

Current Season



Looking back, Canada experienced an arctic blast, the white blob on the tropospheric model in the first part of the article. Ontario and Southern Quebec experienced -15°C temperatures (10°F). In addition, to smashing these all-time cold records going back to the 1870's on the border up in Canada is something very unusual.



Record [#cold](#) morning in Ontario & Southern Quebec, with temperatures in the negative mid-teens for most. Windsor even breaks its record for any day in November, previously -15.6°C on Nov 30, 1958! [#ONwx](#) [#MeteoQC](#) [#Toronto](#) [#Montréal](#)



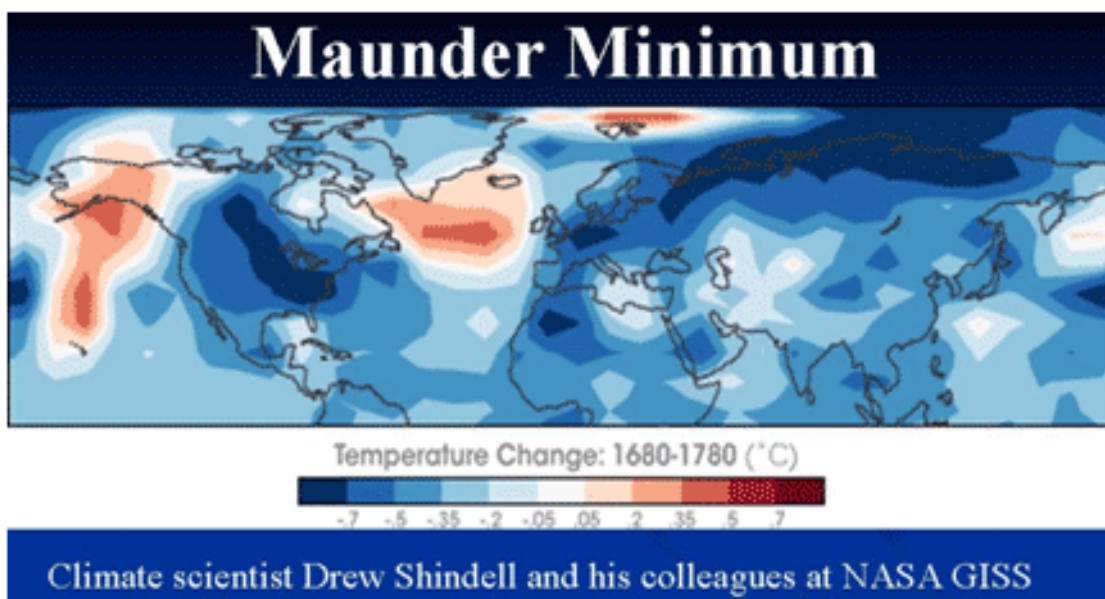
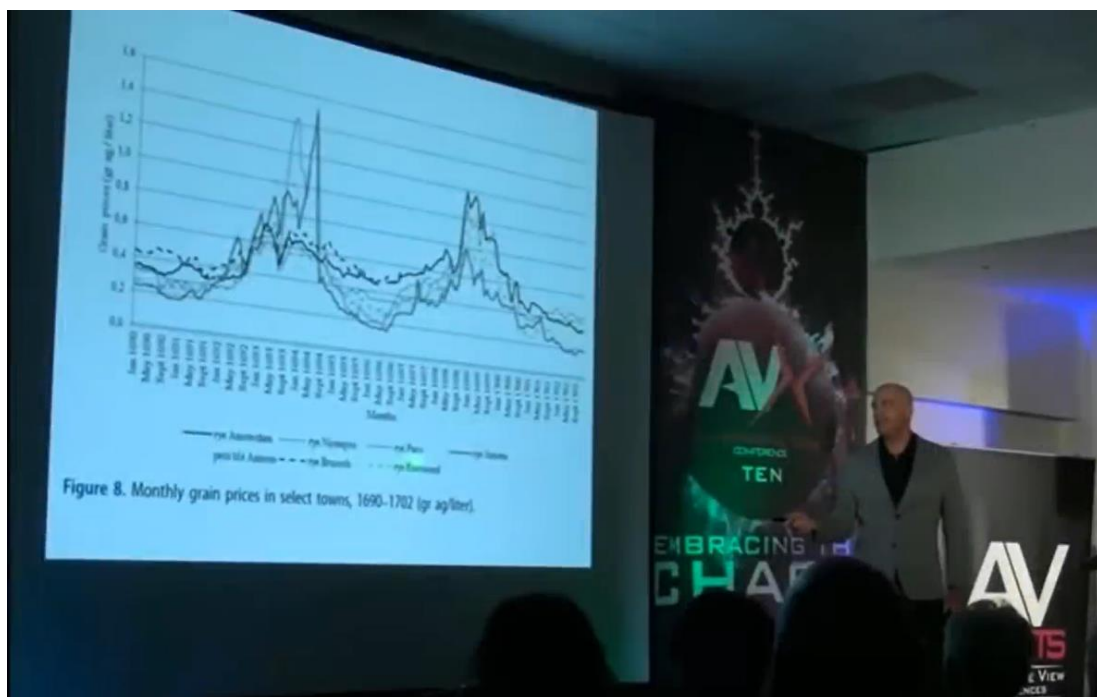
5:17 AM - 13 Nov 2019

Then on the Daily Record Low, Burlington Vermont had its earliest single-digit low on record, and again, some of these records are stretching back to the late 1800s.



That is why when I was presenting at Alternative View 10 in London, I posted this food price reconstruction from 1650 to 1710 across five different capital cities in Europe. It shows as crop yields declined from shorter growing seasons food prices sometimes tripled or were even 7x higher. The similarity today is that N. Hemisphere harvests that are being affected at a faster rate already and in the same way described by chronicles in the 17th century.

My question is, what are the first things you're going to stop spending on when your food prices double or triple? Trace that back to the rest of the economy and see how that is going to shrink parts of it, when you stop spending, and others, just like you, stop spending on the same goods and services.



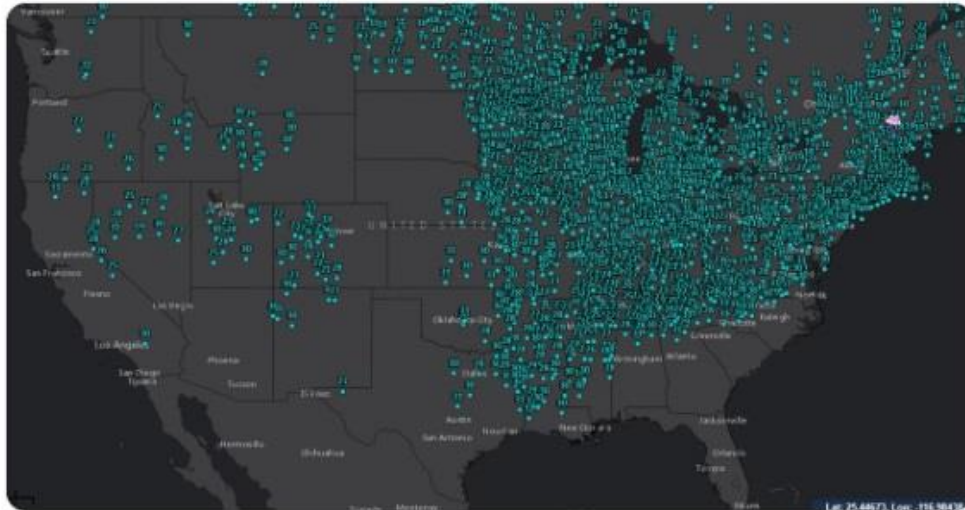
Moving on, this is an incredible visual graphic to show areas in the U.S lower 48 that are colder than Alaska.



Corey Pieper
@Geostrophic

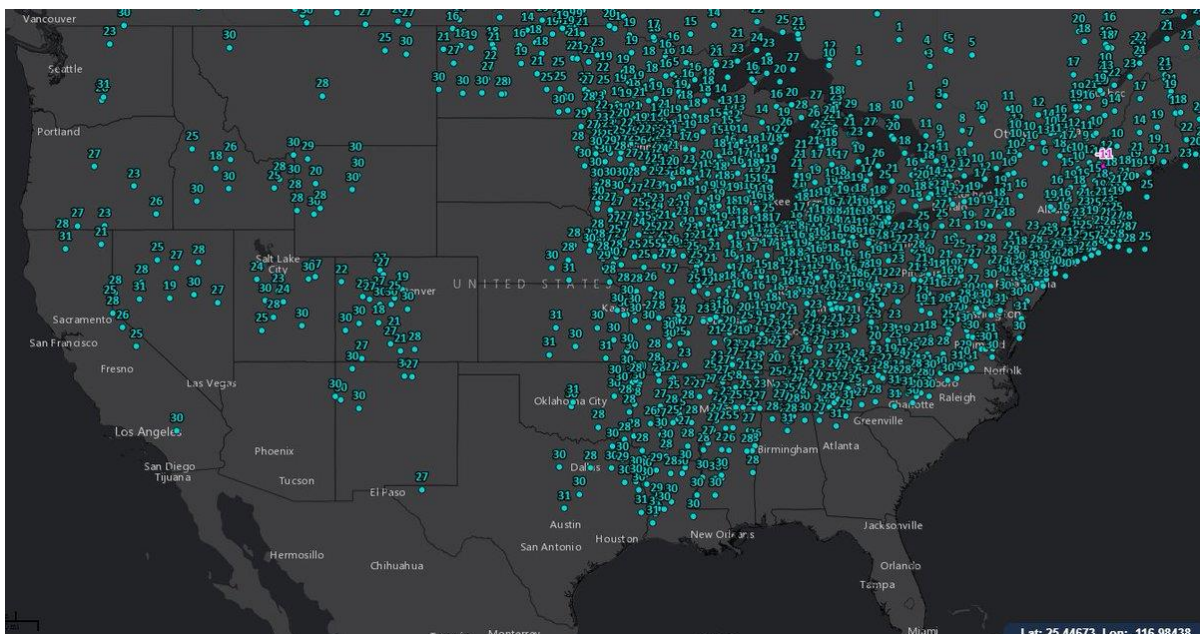
Follow

Areas in the US that are currently colder than Anchorage, AK, because weather twitter hates that



7:36 AM - 13 Nov 2019

You can see, most of the U.S is early record cold. Everywhere you see green dots had an old temperature record that was broken. This seems to match up with what was seen on the extreme forecast, and with temperature charts WX Weather was putting together along with NOAA, and National Weather Stations.



In any case, my wake-up moment doing this article was looking at the 'Snowiest Months on Record' in Nunavut, in Baffin Island in northern Canada. October 2019 was the snowiest month on record they ever had, and obviously, it gets colder in December and January, when the temperature is at -40.

The trend seems to be longer winters with more extreme cold and heavier snows. This has happened since 2017-2017 winters a new pattern forming bringing shorter growing seasons and lower crop yields.

 **Patrick Duplessis** @Pat_wx · Oct 31
This month's snowfall is the highest recorded for any month of the year in Resolute, Nunavut! As a reference, average snowfall for October is 19 cm. #Arctic #NUwx #North

Snowiest Months on Record

Resolute Airport, Nunavut

Month	Snowfall (cm)
October 2019	55.0*
September 1989	54.4
September 1994	53.4
October 2015	51.4
October 1998	42.4

* Through Oct 31 12 PM UTC

So the 2019 snow season broke all-time snowfall records in Baffin Island. I encourage you to search for Leonard Nimoy's talk regarding the seed point of the last glaciation over N. America was Baffin Island.



Look at research done on Baffin Island, pointing to the Laurentide Ice Sheet Glaciation starting point, I have a PDF on this and listed the links about this story.

This is an eye-opener because it poses yet another very important question: Is this the beginning of a larger cycle that is going to intensify over the next decade?

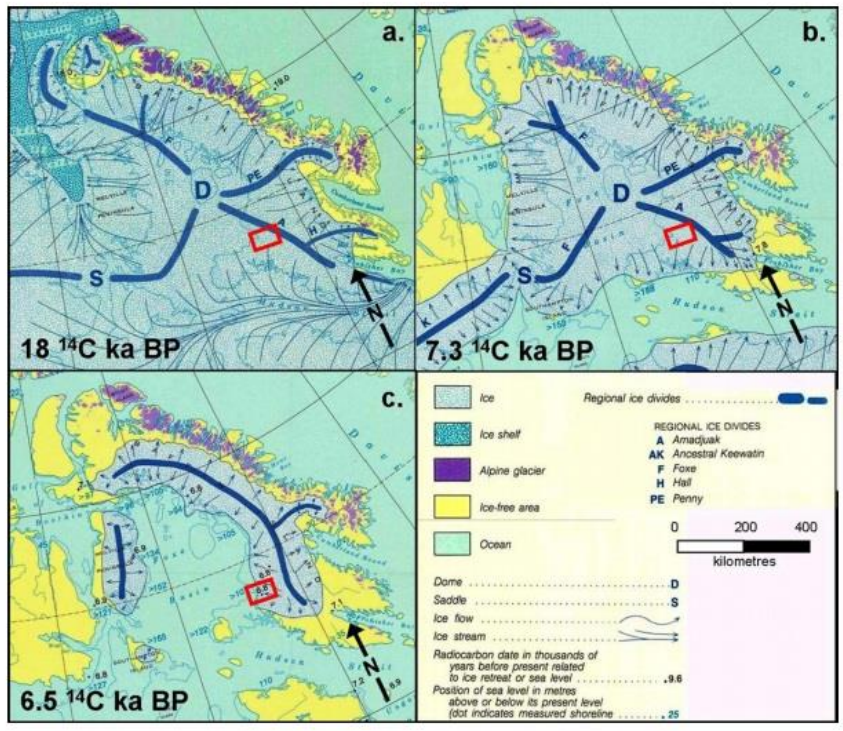
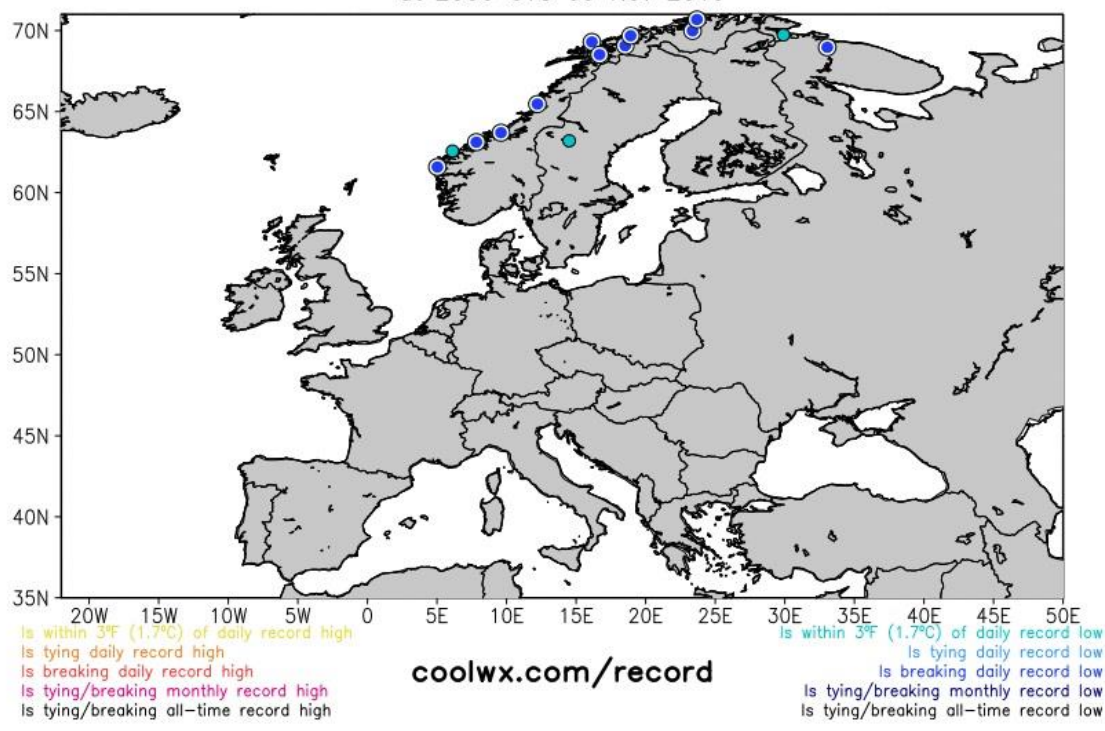


Figure 1.4: Reconstruction of the Baffin Sector of the Laurentide Ice Sheet, showing major ice dispersal centers and ice flow patterns. a) At 18 ¹⁴C ka BP, Foxe Dome is centered directly over Foxe Basin, with Foxe Ice Divide extending south, and Amadjuak Ice Divide extending southeast. The Hudson Strait Ice Stream is visible south of Baffin Island. b) By 7.3 ¹⁴C ka BP, Hudson Strait and Hudson Bay have deglaciated, as has the southwest tip of Foxe Peninsula. Ice over Foxe Basin still maintains near-maximum configuration. c) By 6.5 ¹⁴C ka BP, Foxe Dome collapses and the ice divide migrates over Baffin Island, shifting ice flow. Central Foxe Peninsula is submerged below high sea levels. (Figure adapted from Dyke and Prest 1987, dates from Dyke 2003b which has slightly different ice margins.)

Consider Europe's cold temperature records were broken at the same time as N. America, from the 9th of November to the 16th, particularly, Norway, Sweden, and Finland. I thought it was supposed to be record warm up there. Weren't we lectured about that?

Locations approaching or surpassing unofficial daily (09 Nov) temperature records based on temperature at 2000 UTC 09 Nov 2019



Thanks for reading, I hope you got something out of the article. If you like more content like this, I produce the tri-weekly Mini Ice Age Conversations podcast of a 30-minute in-depth analysis on the GSM you can take on the go through out your day.

*****Mini Ice Age Conversations Podcast*****

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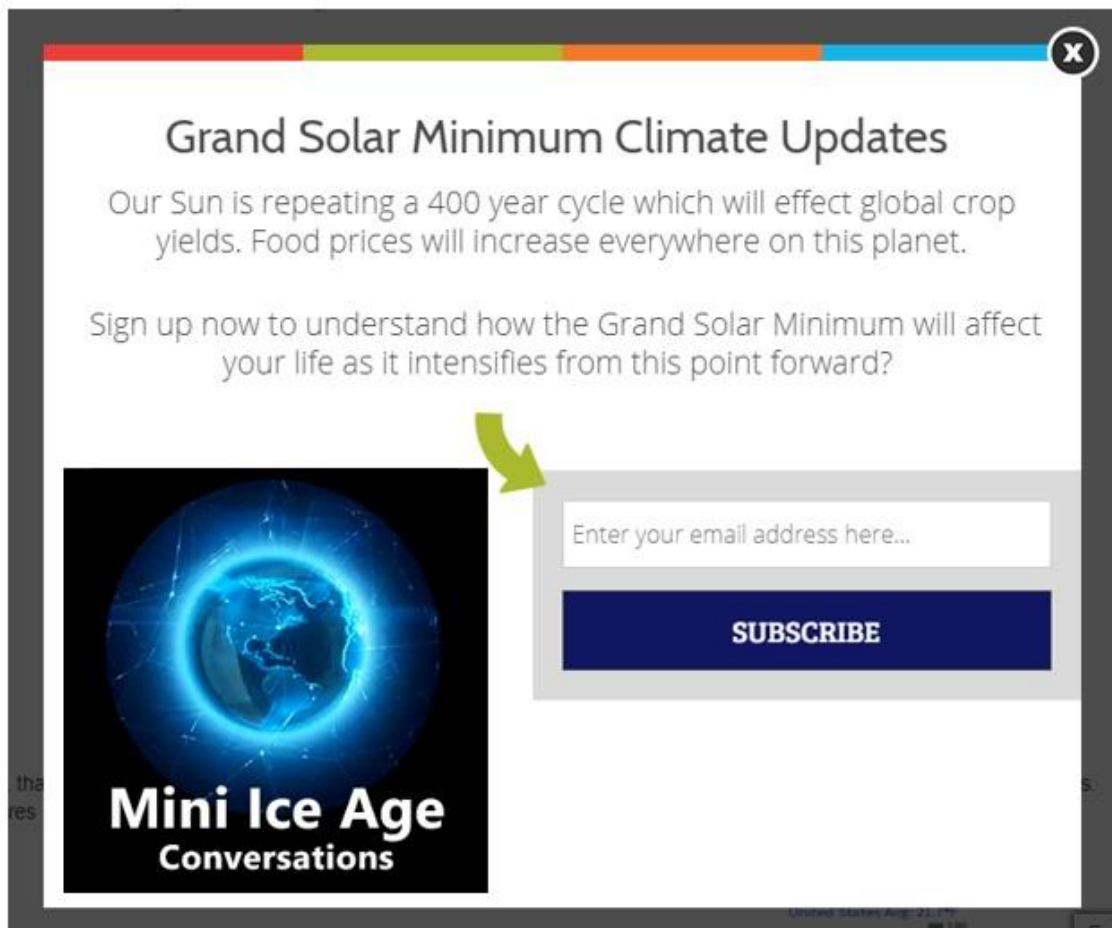
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Today's Story Links

Cold snap of historic proportions hits East Coast, over 300 records fall
<https://www.washingtonpost.com/weather/2019/11/13/cold-snap-historic-proportions-hits-east-coast-over-records-fall/>

(Unofficial) Record-breaking temperature across the USA

<http://coolwx.com/record/usamovie.week.php>

(Unofficial) Record-breaking temperature across Europe

<http://coolwx.com/record/europemovie.week.php>

US Map frozen and new cold records

<https://pbs.twimg.com/media/EJQ2zyLUYAEKDXi.jpg>

Weather gif and model runs for temperature

<https://twitter.com/RyanMaue>

Temperature departure from normal

<https://pbs.twimg.com/media/EJLITzWXkAIE43.jpg>

Cold front clouds

<https://pbs.twimg.com/media/ElysSdXX0AI4KgP.jpg>

RESEARCH: ACCUMULATED WINTER SEASON SEVERITY INDEX (AWSSI)

<https://mrcc.illinois.edu/research/awssi/indexAwssi.jsp>

Laurentide Ice Sheet Baffin Island QUATERNARY GEOLOGY OF BLUEGOOSE PRAIRIE, BAFFIN ISLAND, NUNAVUT

<https://core.ac.uk/download/pdf/56376056.pdf>

***** ADAPT 2030 Social Media Links *****

YOUTUBE [ADAPT 2030 Mini Ice Age 2015–2035 Series on YouTube](#)

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