

Exacta Weather - UK Winter 2020/21 Final Weather Forecast Report

Low Solar Activity/Solar Minimum To Bring Prolonged Periods Of Cold & Snow - And The START Of Little Ice Age Winters For The UK!!!



Winter 2020-21 & Covid-19 Important Update

Despite all the latest official information regarding the Covid-19 virus and hot or cold weather not having any impact on current indications - we feel it is still quite important to bring you an update and strongly note that there are a few areas that the Covid virus could impact with the weather despite these claims. In the coming months and upcoming winter weather patterns it is important to consider certain times, in particular, for the expected cold spells of weather and how they may impact hospital admission numbers through standard time of the year influenza and other illnesses impacted by cold weather, and in joint force with the overall Covid virus numbers.

Particularly, for the December 2020 to January 2021 forecasting period.

December 2020

December has become famed in recent years' for more in terms of mild and wet weather than cold and snow, particularly, since 2010. However, and to prove 2010 was no fluke for future winter periods in the coming decades, this December will follow on with the colder theme from November and although some brief mild and soggy weather could exist at times in the run up to the 21st December, the month will more than likely begin and finish on a cold note as the jet-stream veers south.

Widespread snow/wintry showers will push in across the country to give some at least moderate to heavy falls of lasting snow in places, and of a much different scale in comparison to November. The second half of the month and from in and around the 21st December through to New Year could

therefore bring at least 1-2 major snow events for large parts of the country, and after something earlier on in the month, and for in and around 12th/13th December. However, this particular event could consist of cold rain and produce some widespread sheet ice in places, rather than snow within this period, particularly, in parts of the West/Midlands, and in also in parts of the southern half of the country.

A White Christmas on the cards? Potentially... and although difficult to define for just a 24 hour period as to what the weather will do for one particular day, there could be some value in placing an early bet on locations with current odds of say 4/1 (5.00) or more in parts of the northern half of the country. Please note that this does not dispel snow for the south within this period, at this stage we are simply defining a more realistic and safe approach to placing a sensible bet, on which there must be definitive proof of a single flake of snow falling during the 24 hours of Christmas Day.

It is important to note that we are still expecting a number of potentially hazardous and widespread snow events to occur for in and around this period - that will also impact other parts of the country.

In addition to this widespread icy spells and widespread overnight frosts will become the more dominant feature for several weeks in succession, and in among the arrival of the widespread snowstorms will also see dense and widespread freezing fog becoming problematic at times for many during the second half of December too.

The statistics for this period should bring much colder than average temperatures (Mean CET) with above-average SNOW/precipitation amounts overall.

January 2021

January looks set to continue with the cold theme and although snow will still be a feature for many - a more common feature could see ice storms developing as bands of stormy weather push in off the Atlantic to clash with cooler weather stagnated across our shores from the extended colder weather.

This could make for some amazing ice pictures from across the country, but also some unfortunate hazardous conditions from what ice storms can bring, in particular, for in and around 10th January 2021 on current indications. However, the potential ice storm events could also prove to be quite snowy as any weather fronts pushing in turn to transient and potentially heavy snow events.

The month is also likely to be quite a foggy one overall, particularly, in some northern facing coastal areas, and central regions, where freezing fog could linger all day and night for several days in succession at times. Probably a less cold month than December and less problematic in terms of widespread snowfall, but still a cold month overall with temperatures featuring at near to below the seasonal average overall.

The statistics for this period should bring around average temperatures (Mean CET) with above-average precipitation amounts overall.

February 2021

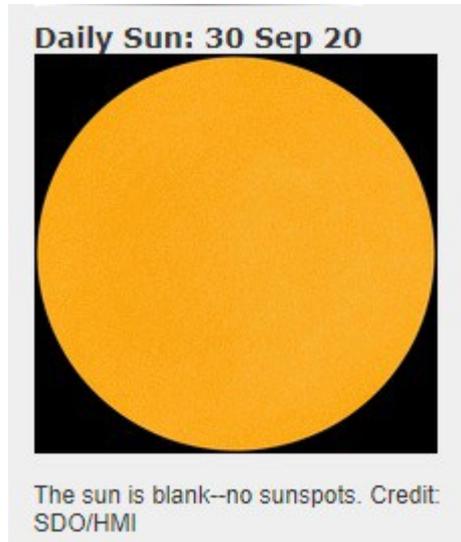
February is then looking very different in comparison to December and January in terms of the more dominant cold weather conditions. The month is likely to see some rather interchangeable weather patterns as the first of any major mild weather pushes in off the Atlantic and at times wins over from the icy Siberian conditions in place across our shores. This will start to bring about a much needed reprise in the suppressed temperatures for many and it will also bring some rather stormy conditions for many to contend with at times too.

However, there will still be widespread frosts and some transient snow to contend with throughout February as winter tries to cling on, and as the first signs of spring start and some much milder temperatures start to nudge in across Britain.

The statistics for this period should bring around near average temperatures (Mean CET) with above-average precipitation amounts overall.

Conclusion

We will begin to see a more southerly driven jet-stream for a prolonged period throughout the start of winter on our current long range forecast indications (December and into January). The more southwards directed jet-stream will largely be induced from the period of extreme low solar activity that we currently reside within, and the past month has seen literally little of no sunspot activity.



The solar disc above is blank and there are currently no sunspots. The lack of Earth directed solar flares from this current lull in solar activity has an important bearing on negative oscillation patterns such as the Arctic Oscillation (AO) and The North Atlantic Oscillation (NAO) and a more southerly jet-stream - which allows colder air to come spilling in across our shores for some prolonged periods, particularly, within the December to January 2021 period of this winter.

The new solar cycle is also extremely weak and this does not bode well for the future output of our sun. When the solar output and geomagnetic activity becomes so low - this not only has a bearing on our long range 'climate' and major oceanic factors such as the Gulf Stream/Pacific Decadal Oscillation (PDO) in the years to come, but also for weather events or periods from just several weeks to several months ahead.

For example; the cold and snow of December 2020 and January 2021 are likely to be in direct impact to the currently low solar activity levels and how this intrinsically alters the behaviour of the jet-stream to a more southerly route, and thus allowing colder air to spill in across our shores from the Arctic regions.

Major snow events within this period will see some crippling amounts of snow falling in urban and non-urban areas, and this is how Little Ice Age patterns attack. Some of this snow will be at least be several feet deep in places, and parts of the north could see lasting snow for months in succession, particularly, across higher ground in parts of Wales and Scotland, and this will in hindsight be due to snow event after snow event placing snow layer upon snow layer in some prolonged colder than average conditions.

We do also mention the potential for ice storms and this is also something that we think will become a common feature during the upcoming years' and decades. However, stressing the havoc that ice storms can bring in terms of accidents, and the widespread disruption they can cause by damaging trees and power lines is of utmost importance, especially in these unexampled and testing times that we already currently live in. Other common features will also include widespread frosts and widespread dense freezing fog patches for many within the upcoming winter period.

Even February, which we expect to be less cold, will still see the grip of winter and this Little Ice age pattern trying to hold on.

All of the above is outlined in extra detail within a number of our solar activity and Little Ice Age articles from recent years below'.

James Madden, forecaster for Exacta Weather, has previously said the UK should brace itself for colder winters from this year ONWARDS...

He said: "This serious climate situation is also something that is unlikely to correct itself overnight as repeated analysis of past cycles and other contributing factors in relation to the current solar output and size/frequency of sunspots reveal to us quite conclusively that we are heading into something like a Maunder Minimum.

<https://www.mirror.co.uk/news/world-news/mini-ice-age-way-what-7242051>

James Madden said: After a cycle of strong solar activity an "off the charts" dip in the sun's energy output will trigger YEARS of potentially cold winters in the UK.

This will disrupt the flow of the warming Gulf Stream which usually hikes winter temperatures and blocks the full thrust of any Arctic flow.

He said: "The Gulf Stream regulates winter temperatures to much warmer values than they should be for the likes of the UK and Ireland in respect to our overall latitude.

"In periods of high solar activity we experience a significant rise in solar energy which heats these vital ocean currents. "An increase in solar activity levels heated ocean currents, which favoured certain atmospheric circulation patterns from around the globe whilst also retaining heat on earth from insulation.

"However, we are now in something completely different, and after such a period of high solar activity in recent decades, we have gone to something completely off the charts in terms of solar output.

"This also alters ocean behaviour to more long term cold cycles, and models can overcook El Nino conditions and their impacts as solar activity is currently low.

"This serious climate situation is also something that is unlikely to correct itself overnight as repeated analysis of past cycles and other contributing factors in relation to the current solar output and size/frequency of sunspots reveal to us quite conclusively that we are heading into something like a Maunder Minimum - a time when the Thames used to freeze over regularly in London - or a fully blown ice age in the coming years and decades."

<https://www.express.co.uk/news/weather/612369/SHOCK-CLAIM-World-is-on-brink-of-50-year-ICE-AGE-and-BRITAIN-will-bear-the-brunt>

Update added: 1st October 2020 - James Madden

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