



Confidential to your close organization

Europe 2019 DEC to Jan 1, 32d.

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FORECAST ~40d Ahead (from BI 120d ahead) issue 25Nov, SLAT15b (Solar-Lunar-Action-Technique).

Europe DEC 2019 Summary

Key developments Weather and pressure patterns, **5 weather periods**. Inc Xmas & New year's day.
Timings +- 1 or 2 days. Forecast updates will include more detail and maps. **General confidence B 75%**

SNOWY & VERY COLD for Scandinavia + N continental Europe with serious disruption. South Europe and Med often mild & fine.

- **The coldest 5-10 Decembers in 100 years Scandinavia, N Germany/Poland.**
- A number of brutally cold, ~cyclonic (mainly in North), "Cyclonic-North" / Northerly blasts - **"displaced polar vortex" events**.
- Main uncertainty is track of these polar-type Lows over Scandinavia and boundary in (north) continent of most extreme cold and snow / blizzards & gales.
- Large Jet Stream meanders (Little Ice Age signature).

DEC 1-8th 2019. Increasingly cold and snowy in North Europe with Iberia and Mediterranean mostly dry mild and bright. Developing extreme brutal cold with snow / blizzards in Scandinavia. SE Europe turning colder later. Displaced Polar Vortex over Scandinavia. Azores High extends into Iberia + west Med. **Solar factors R3**

Dec 9-16th 2019. Major snow+blizzards and brutal cold bitter winds Scandinavia, Benelux, N Germany, N Poland, Baltic States +W Russia. Turning cold with sleet and snow in much of France, S Germany & Central Europe. **Heavy snow Alps & Pyrenees.** S Spain, S Italy, Greece, Balkans, Ukraine + Turkey mild & fine. Active polar Low pressure(s) centred over (Sth) Scandinavia (& Br+Ir) moving Eastward. High pressure SE Europe. **Solar factors R4 Dec 9-11, R5 Dec 12-14, R2 15-16.**

Dec 17-20th 2019. Turning largely dry and less cold in Scandinavia, Benelux, N Germany, N Poland, Baltic States +W Russia. Becoming showery in South Europe and much of Med. S Italy, Greece, Black sea + Turkey mild & fine. Active polar Low pressure(s) moves East and High pressure takes over Spain - South Europe and much of (north) Med. Higher pressure far S/E Med. **Solar factors R3 17-20.**

Dec 21-26th 2019 Major snow & blizzards in Scandinavia. Cold showers, sleet and **snow at times N continental Europe. Snow likely on Xmas Eve, Xmas Day + Boxing Day Scandinavia, N Benelux, N Germany, N Poland + Baltic States.** Spain mostly dry mild and fine. Central Europe and Italy getting colder. East Med mild/warm-ish. Active Low(s) Scandinavia / N sea and cyclonic Sub Lows Britain+Ireland and West Europe (giving N'y flow in west). Azores High extends into S France + Iberia. Higher pressure East Finland & W Russia. **Solar factors R3 21, R4 Dec 22-24, R5 Dec 25-26.**

DECEMBER 27th 2019 to Jan 1st 2020. Turning rapidly dry milder & brighter with mist and fog (espec Baltic sea) Scandinavia and N continental Europe. Central Europe and Central Med turning cold with sleet and snow. Iberia dry with cold nights. **New Years Eve / New years Day likely snow / snow showers in most of France Germany, Italy and the Alps.** Highpressure Scandinavia, West BI and NW Europe. Cold Low Central Med. East winds over continental Europe. **Solar factors R3.**