



CONFIDENTIAL

## 40day ahead SWT25b Britain & Ireland JAN 2009

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[www.weatheraction.com](http://www.weatheraction.com) for European forecasts and weather event reports: [www.lowefo.com](http://www.lowefo.com)

*New format with maps (pages 2-4) - Newspaper, media & web use restricted to box below.*

### **JANUARY 2009 – 40d ahead detailed forecast SWT25b**

This 40d ahead 11 time periods forecast (Euro maps issued 22 Dec) is produced under Solar Weather Technique SWT25b. SWT 25 (compared with SWT24 etc) improves the timing and intensity of local or worldwide periods of extra frontal activity ('EA') and SWT25a/b are related detailed improvements.

#### **Media and web summary for Britain & Ireland Jan 2009 Weather Action Forecast:**

(Note The detailed forecast in following pages to customers is not for public, media or web distribution without agreement).

## **Jan 2009: Serious winter weather; Cold with very cold parts, major snowstorms, deluges, floods and stormy spells at times. Milder end to month.**

The full **detailed** forecast gives the timing - in 11 time periods of the most likely weather type development through the month. WeatherAction's [www.weatheraction.com](http://www.weatheraction.com) and [www.lowefo.com](http://www.lowefo.com) carry public extreme events forecasts for other parts of the world.

#### **The essential weather type development January 2009**

January 2009 in Britain and Ireland will be dominated for most of the month by Northerly winds including NorthWesterly and NorthEasterly at times. These winds will mostly be of Arctic rather than Siberian origin and are likely to bring a number of periods of widespread heavy snow. There will also be spells of rain deluges and floods. Some of these extreme weather periods will be associated with forecasted near simultaneous extreme events in other parts of the world will be caused by the same solar activity and solar-magnetic events.

General development - Time windows normally accurate to +/- one day.

1-8<sup>th</sup> Jan 2009. Often Northerly or NorthWesterly flow, wintry showers snow & ice, rain deluges and floods at times.

9-11<sup>th</sup> Jan 2009. Briefly More Westerly flow likely, Rain deluges, floods.

12-26<sup>th</sup> Jan 2009. Often Northerly or NorthEasterly flow. Very cold spells and prolonged heavy snow at times.

27-31<sup>st</sup> Jan 2009. More Westerly moderate flow. milder

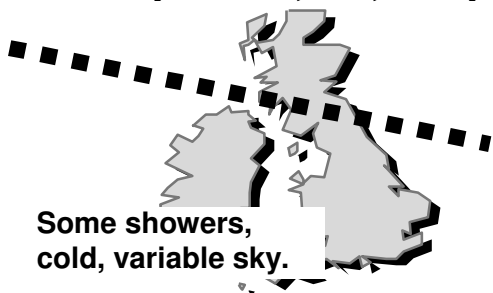


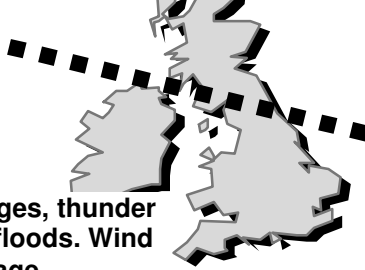
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# Weather periods January 2009 SWT25b Confidential

Time windows normally accurate to +/- one day.

**Solar Factors:** EA = Extra Activity and will lead to more rain / wind/ thunder / cloud than Standard Meteorology forecasts (Smfs) will suggest when they come to be produced in short range one or two days ahead of events; Lightning / Tornado (and Aurora) Relative risk compared to normal increases with Extra Activity (EA) Top level. NSF = No Specific Solar factors; Q = Quiet – less rain/wind / cloud than Smfs.

Confidence levels A (85%) , AB (80%), B (75%), BC (70%); C (60%)




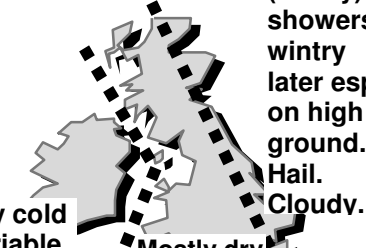
<p><b>1-2 JAN 2009 BC = 70%</b> Solar Factors: Q/NSF</p> <p><b>Some showers – wintry in North. Drier in South. Cold. Light winds.</b></p> <p><b>Likely possible weather map scenario:</b> Low pressure probably centred towards South Scandinavia/ South Norway Sea, Arctic high pressure to North /West of Ireland / Britain. Winds: N/NW'ly light, mod in Scotland.</p>	<p><b>Wintry showers, cold, cloudy</b></p>  <p><b>Some showers, cold, variable sky.</b></p>
<p><b>3-5 JAN 2009 C = 65%</b> Solar Factors: Extra Activity (3) = Stronger frontal activity, more rain &amp; wind than SMfs.</p> <p><b>Cold and icy. Snow &amp; wintry showers and freezing rain in North &amp; East. West &amp; SouthWest mostly dry.</b></p> <p><b>Likely possible weather map scenario:</b> Cold fronts pass from the North through Britain and Ireland and High pressure builds over Ireland / to West of Britain. Winds: N'ly strong In Scotland &amp; East coast. Light in Ireland &amp; West.</p>	<p><b>Wintry showers, snow and black ice.</b></p>  <p><b>A few showers then mostly dry, cold frosty, black ice. Fog.</b></p>
<p><b>Red Weather warning period</b></p> <p><b>6-8 JAN 2009 BC = 70%</b> Solar Factors: Extra Activity TOP = significantly stronger frontal activity, more rain &amp; wind than SMfs.</p> <p><b>Serious rain and snow deluges. Floods and blizzards, windy.</b></p> <p><b>Likely possible weather map scenario:</b> Deep Atlantic lows. Sublows are partially blocked by higher-pressure in N Sea and Scandinavian High pressure extension giving slow moving fronts rain deluges and floods – blizzards on higher ground. Winds: Cyclonic / N'ly locally very strong, high turbulence and tornado event risk. Storm 10/11 at sea.</p>	<p><b>Blizzards &amp; snow on high ground, turning to rain, floods. Wind damage.</b></p>  <p><b>Heavy rain &amp; deluges, strong winds. Floods.</b></p>
<p><b>Red Weather warning period</b></p> <p><b>9-11 JAN 2009 B = 75%</b> Solar Factors: Extra Activity (2)= Stronger frontal activity, more rain &amp; wind than SMfs.</p> <p><b>Wet &amp; windy. Strong winds in North. Floods especially West &amp; South. Thunder. Less cold.</b></p> <p><b>Likely possible weather map scenario:</b> Deep low near Iceland and a series of wave depressions cross Atlantic to Ireland &amp; Britain. Scand High retreats partially. Slow moving turbulent fronts over Ireland &amp; Britain Winds: Cyclonic / S/E/NE'ly locally strong, high turbulence and tornado event risk. Severe gale 9/ storm 10 at sea.</p>	<p><b>Wet &amp; windy. Wind damage possible.</b></p>  <p><b>Deluges, thunder and floods. Wind damage.</b></p>

**Weather periods January 2009 SWT25b Confidential continued**

**Time windows normally accurate to +/- one day.**

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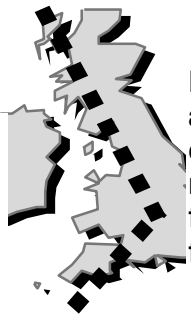


<p><b>Red Weather warning period</b>  <b>12-14 JAN 2009 AB = 80%</b>                  Solar Factors: EA (2). More rain and snow than Smfs.  <b>Rain turns to widespread blizzards and heavy snow – six inches likely in East/ Midlands &amp; prob South (sleet /rain poss in S)</b>  <b>Likely possible weather map scenario:</b>                  Low pressures move into Europe &amp; channel/ France and Atlantic High develops linked to Arctic/Greenland. Fronts come from North / East.                  Winds: bec NE'ly strong / cyclonic E'ly in South, light in Ireland.</p>	<p><b>Rain then Widespread heavy drifting snow.</b></p>  <p><b>Less snow in (West) Ireland. Poss sleet / rain instead in S/SW</b></p>
<p><b>15-18 JAN 2009 A = 85%</b>                  Solar Factors: Q/NSF  <b>Very cold. Mostly dry. Snow flurries in East espec 16<sup>th</sup>. Sharp frosts (-10C likely)</b>  <b>Likely possible weather map scenario:</b>                  High pressure builds to North/West of Britain &amp; Ireland as lows in Europe sink to Med and fill.                  Winds: NE'ly Mod bec light. Very light in Ireland &amp; West.</p>	<p><b>Bec very cold, snow flurries esp 16<sup>th</sup>.</b></p>  <p><b>Dry, Very cold,. Foggy espec 16<sup>th</sup>.</b></p>
<p><b>Red Weather warning period</b>  <b>19-21 JAN 2009 BC** = 70%; Deluges = AB = 80%</b>                  Solar Factors: Extra Activity TOP = significantly Stronger frontal activity, more rain thunder &amp; wind than SMfs.  <b>Blizzards in North turning to rain deluges and local floods. Less cold.</b>  <b>Likely possible weather map scenario:</b> Atlantic high attacked from Nth by Lows which dive South to S of Nth sea.  <i>** Alternative scenario is that High extends over much of Ireland &amp; Britain so rain largely confined to Scotland</i>                  Winds: Cyclonic / N'ly locally strong, high turbulence and tornado event risk. Sev gale 9/Storm 10 at sea.</p>	<p><b>Blizzards on high ground, turning to rain, local floods.</b></p>  <p><b>Heavy rain, prob floods (less in South Ireland &amp; SouthWest).</b></p>
<p><b>22/23 JAN 2009 A = 85%</b>                  Solar Factors: Extra Activity TOP = significantly Stronger frontal activity, more rain &amp; wind than SMfs, but BLOCKED from Ireland &amp; most of Britain.  <b>Dry and cold in Ireland &amp; West. Wintry showers (poss heavy) in East</b>  <b>Likely possible weather map scenario:</b> North Scandinavian High collapses and large organized Atlantic low crosses N Atlantic to Finland. Fronts graze East Britain.                  Winds: NW'ly mod in east, v light in Ireland &amp; South/ West.                  [Severe storm 10/11 or poss hurricane 12 in Norway sea.]</p>	<p><b>(Heavy) showers, wintry later espec on high ground. Hail. Cloudy.</b></p>  <p><b>Dry cold variable sky foggy.</b>  <b>Mostly dry some showers cloudy.</b></p>

## Weather periods January 2009 SWT25b Confidential continued

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<p><b>24 – 26 JAN 2009 A = 75%</b> Solar Factors: NSF / Q.</p> <p><b>Dry, bright or sunny, cold nights. Light wind.</b></p> <p><b>Likely possible weather map scenario:</b> Becoming generally slacker as Atlantic high builds and moves to Ireland / West Britain. Low centred around White sea / NW Russia fills somewhat.</p> <p>Winds: N'ly very light</p>	 <p>Dry &amp; sunny. Warm afternoons, cold nights frost.</p> <p>Dry sunny afternoons, cold nights, frost and fog.</p>
<p><b>26/27 - 28 JAN 2009 C = 65% (Transition period).</b> Solar Factors: EA (3) more active fronts than Smfs</p> <p><b>Showers from West, becoming milder/</b></p> <p><b>Likely possible weather map scenario:</b> High pressure over Britain shrinks and moves East as powerful Low drives across Atlantic and attacks Ireland. Scand High re-establishes.</p> <p>Winds: SW/ly strong in West. Sev gales 9 at sea.</p>	 <p>Showers, some heavy, becoming mild.</p> <p>Mostly dry, showers later, becoming mild.</p>
<p><b>29-31 JAN 2009 A = 85%;</b> Solar Factors: NSF / Q.</p> <p><b>Dry &amp; mostly sunny/ bright. Fine. Mild afternoons &amp; cold nights. Winds becoming light</b></p> <p><b>Likely possible weather map scenario:</b> General westerly flow in Atlantic main low centred over Iceland.</p> <p>Winds: W'ly mod becoming lighter.</p>	 <p>Dry, mostly sunny or bright. More cloud in Scotland &amp; North/ West Ireland.</p>

## Important information on Confidence & Timing of weather events and weather periods

This Britain & Ireland forecast is part of Weather Action's European forecast area which is bounded by Iceland, Portugal, / Gibraltar, Syria, The White Sea & Svalbard.

**The headline summary** (p 1) is the key points *summary* statement for the month.

**The essential weather type development** (p 1) gives the most likely essential developments through the month.

**The detailed *most likely* weather periods**, typically of around 3 or 4 days, are the Solar Weather Technique highest resolution long range forecast detail. They are not to be taken as exact prediction and include confidence levels.

**The weather period timings** given in forecast details (pages 2, 3 & 4) are the most likely core time periods for the weather events or weather types specified. If the events / types occur the core time periods should include the specified events / types on at least 85% of occasions; with a probability of 15% or less that they occur in the wings of an extended time period which is one or two days longer than the given core on each side\* *The time window does not mean that all of that period will have certain (eg) extreme events but that they are expected to occur at some time during that period.* The most probable sub-parts of periods for events may also be stated. [\*Or possibly longer in: (i) long weather periods, (ii) longest range forecasts where a 1% uncertainty in 300 days ahead will be 3 days or (iii) situations where consecutive weather periods are similar].

### **Confidences in weather periods.**

'A' - about 85% chance of being essentially right & 15% of being in error.

'B' - about 75% chance of being essentially right & 25% of being in error.

'C' - about 65% chance of being essentially right & 35% of being in error.

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