



**CONFIDENTIAL**

## **45 day ahead SWT25d Brit & Ireland MAR 2009**

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### **SWT25d 45day ahead forecast with Maps issued 16 Feb 2009**

This 15-45day ahead 10 time periods forecast is produced under Solar Weather Technique SWT25d and is an update and advance on the 10 period SWT25c(i) {first stage of SWT25c} 60 day ahead forecast. This update is similar to that forecast but gives extra information and changes some detail particularly on strength and timing of storms. SWT25d should assist in forecasting underestimated storms such as that which struck France around 9<sup>th</sup> Feb. The forecast did include strong winds in France but what happened were very ferocious events partly associated with after-effects of the Sudden Stratospheric Warming of Jan 22-23 and also other factors which now appear to be predictable.

## **MARCH 2009: Wild contrasts. Stormy start. Frequent heavy rain and thunderstorms. Windy. Wintry at times. Some short 'bursts of Spring' in South.**

The full **detailed** forecast gives 10 time periods of the most likely weather type development through the month on pages 2-4.

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

March 2009 in Britain and Ireland will be dominated for most of the month by strong Westerly winds or cyclonic stormy conditions followed by cold Northerly sometimes wintry blasts. The Jet stream (track of lows) will be mostly well to South. The South will have some short bursts of warm Spring weather.

#### **General development.**

1-5<sup>th</sup> March 2009. Stormy start followed by N/NWly winds and some wintry weather in North.

6-8<sup>th</sup> March 2009. Mild SW'ly flow with a short burst of Spring in South / SouthEast.

9-14<sup>th</sup> March 2009. Cyclonic and stormy turning Northerly and wintry. (SWT25d extra activity).

15-19<sup>th</sup> March 2009. Westerly with gales and storms in North and NorthWest and finer in South then becoming generally cyclonic, thundery, very wet and windy.

20-28<sup>th</sup> March 2009. Westerly flow. Strong in North Britain and in most of Ireland. Briefly finer with bursts of Spring in South/SouthEast. (SWT25d extra activity in part of this period).

29-31<sup>st</sup> March /April 1<sup>st</sup> 2009. Mostly cyclonic, sharp thunderstorms. Colder in Scotland later.

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# Weather periods March 2009 SWT25d Confidential

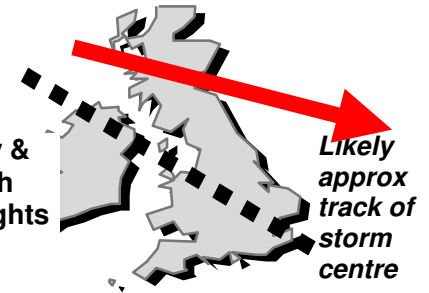
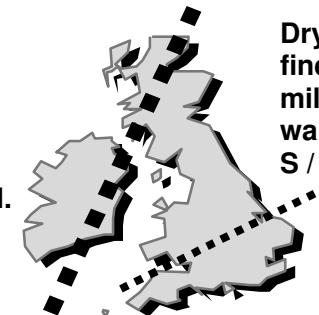


Time windows normally accurate to +/- one day. About 8 of the 10 should be basically correct this month.

**Red Warning = Significantly dangerous or hazardous weather. Red Watch = lower confidence Red Warning**

**Solar Factors:** SWIP = Solar Weather Impact Period = 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 EA.

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>Red Weather Warning (1-3) period Major SWIP.</b>  <b>1-5 MAR 2009 AB = 80% More detail than 60d</b>  <b>1-3 An intense N European Storm. Heavy rain. Local floods. Thunder &amp; Tornado risk. Gale damage. Mild . Then (4/5<sup>th</sup>) turning colder and prob wintry on high ground in North. Ireland &amp; South / West becoming dry and mostly fine.</b>  <b>Likely possible weather map scenario:</b>          A Powerful Atlantic Low drives across sea Nth of Scotland or through Scotland and dives to S Scandinavia / Denmark / Holland. Higher press then builds over Ireland / South/West.          Winds: W'ly becoming NW / Cyclonic/NW or N later; <b>Gales/ Sev gales on land. Storm 10/11 at sea /coasts in North.</b></p>	 <p>Bec dry &amp; fine with cold nights later.</p> <p>Likely approx track of storm centre</p> <p>An intense diving low – prob deeper than 960 mb &amp; widespread gales. Mostly Mild. Turning colder later from North and dry &amp; mostly fine in Ire &amp; South / SW.</p>
<p><b>6-8 MAR 2009 B = 75%</b>          Solar Factors: NSF / Q  <b>Mostly dry, Some showers in Ireland &amp; West Scotland. Becoming mild or warm with a short 'burst of Spring' esp in South &amp; SouthEast.</b>  <b>Likely possible weather map scenario:</b>          Low pressure to West/NorthWest &amp; High Pressure to South..          Winds: SW/Sly strong or mod bec lighter In Ireland &amp; W Scotland. Bec very light in most of England espec South.</p>	 <p>Showery and breezy. Mild bec very mild. Variable sky.</p> <p>Dry bec fine and mild - warm in S / SE.</p>
<p><b>Red Watch / Warning Special SWIP</b>  <b>9-12 MAR 2009 BC = 70%</b>          Solar Factors: Major Extra Activity. SWT25d boost - around 9 &amp; 12<sup>th</sup> Stronger frontal activity, rain / wind than SMfs.  <b>Wet &amp; Windy / stormy. Mild bec colder esp W/NW.</b>  <b>Likely possible weather map scenario:</b>          Mobile with Deep Atlantic lows and Sublows. Main low likely to North of Scotland sweeping into Scandinavia. Cyclonic sublow likely in S England.          Winds: S'ly / Cyclonic very strong / sev gale. High turbulence and tornado event risk.</p>	<p>Wet &amp; windy / stormy. Deluges and local floods. Damaging winds N Scot &amp; N Ireland.</p>  <p>Heavy rain &amp; deluges, strong winds. Floods later. High tornado risk.</p>
<p><b>13-14 MAR 2009 B = 75%</b>          Solar Factors: Some EA.  <b>Becoming wintry in Nth. Hail sleet/ snow. Frost prob in Ireland, N Wales &amp; Scotland. Foggy later.</b>  <b>Likely possible weather map scenario:</b>          Low pressure(s) centres move into N Sea / Scandinavia as Atlantic ridge builds prob linked to Arctic, becoming quieter.          Winds: Bec N'ly mod then light (espec in Ireland).</p>	<p>Bec dry and cold with fog and frost esp N Ire &amp; N Wales.</p>  <p>Showers turning wintry to hail sleet / snow on high ground.</p>

**Weather periods March 2009 SWT25d Confidential continued**





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<p><b>Red Weather warning period</b>  <b>15-17 MAR 2009</b> B = 75% <b>Major SWIP.</b> Solar Factors: EA. More rain, wind &amp; thunder than Smfs.  <b>Wet and windy in North with gale damage, less wet with some showers &amp; breezy in South.</b>  <b>Likely possible weather map scenario:</b>                  Deep low pressures cross from Iceland to Norway sea/N Scand. Higher pressure South Britain &amp; S Ireland.                  Winds: W'ly gales &amp; sev gales in Scot N Ire, N Wales &amp; N England. Mod / Lighter in South.</p>	<p><b>Wet and windy with gale damage esp NI &amp; Scot. Cloudy.</b></p>  <p><b>Showery – less in SW. Breezy. Bright.</b></p>
<p><b>Red Weather warning period</b>  <b>18-19 MAR 2009</b> B = 75%                  Solar Factors: EA More rain wind &amp; thunder than Smfs.  <b>Wet and windy turning colder &amp; prob wintry in Nth</b>  <b>Likely possible weather map scenario:</b>                  Sublows move across Ireland and England while main low heads into N Scandinavia. Higher Pressure in S Scandinavia.                  Winds: Cyclonic bec Cyclonic E/NE/N'ly in parts.</p>	<p><b>Bec wintry with hail; sleet and snow on high ground.</b></p>  <p><b>Wet &amp; windy. Thunderstorms. Prob mod/high tornado risk.</b></p>
<p><b>19/20-21/22 MAR 2009</b> A = 85%                  Solar Factors: NSF/ Q.  <b>Turning mostly dry and bright or fine. Showers in NW. Briefly becoming sunny and warm in South / SouthEast.</b>  <b>Likely possible weather map scenario:</b>                  Lows to North filling somewhat and fronts less active and High pressure builds in South.                  Winds: W / SW'ly mod in NW, light / v light in SE.</p>	<p><b>Showery and breezy becoming mostly dry and milder.</b></p>  <p><b>Bec dry and bright, fine. Warm in S/SE.</b></p>
<p><b>Red Warning Special SWT25d SWIP</b>  <b>22 – 25 MAR 2009</b> BC = 70%                  Solar Factors: EA More frontal activity than Smfs. Esp 22<sup>nd</sup> &amp; 25<sup>th</sup>  <b>Wet and windy or stormy. Floods. Less mild</b>  <b>Likely possible weather map scenario:</b>                  Deep organized low pressure tracks near Iceland region to Norway sea. Fronts cut through Ireland &amp; Britain. Higher pressure block in East Finland / Baltic states &amp; Russia.                  Winds: SW/ly / W'ly prob bec WNW'ly</p>	<p><b>Wet and very windy / stormy in NW. Mild, colder later. Local floods.</b></p>  <p><b>Wet &amp; windy. Local floods poss.</b></p>

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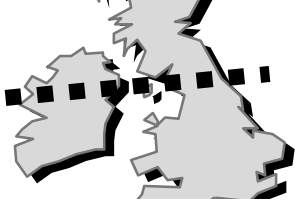

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Confidence levels A (85%) , AB (80%), B (75%), BC (70%); C (60%)

<p><b>26 – 28 MAR 2009 C = 65%</b> (transition period) Solar Factors: NSF / Low EA.</p> <p><b>Becoming mostly dry and bright in Midlands with a ‘touch of Spring’. Showery and breezy in Scot / Nth. and prob thunder along Sth coast. Milder.</b></p> <p>Likely possible weather map scenario: General Westerly flow with higher pressure to South of Britain. Pressure probably rises in Scandinavia Winds: W’yly light in South mod &amp; decreasing in Nth.</p>	<p><b>Showery &amp; breezy less windy. Milder.</b></p>  <p><b>Becoming dry and fine, warm afternoons.</b></p>
<p><b>Red weather Warning :Major SWIP EA (TOP</b> <b>29 - 1<sup>st</sup> April 2009 C = 65%</b> Change from 60d fc Solar Factors) more active fronts than Smfs, partly blocked by variable Scand High.</p> <p><b>Major thunderstorms and mild in S. Less wet &amp; becoming colder in North/ NW.</b></p> <p>Likely possible weather map scenario: High pressure over Scandinavia builds as low pressure deepens in N Europe. Probably a ridge to SW of Brit/Ireland. Winds: Bec Cyclonic S’yly bec E’yly/NE’yly mod/strong in NorthEast..</p>	<p><b>Less wet bec cold, esp at night. (frosts poss) bright.</b></p>  <p><b>Thunderstorms &amp; heavy rain. Windy. Mild.</b></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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