



CONFIDENTIAL

60 day ahead SWT25c(i) Brit & Ireland MAR 2009

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New Longer range Format with Maps issued 4 Feb 2009

This 30-60day ahead 10 time periods forecast is produced under Solar Weather Technique SWT25c(i) which is the first stage of SWT25c. The Full SWT25c 45day update will give extra information and detail particularly on strength and timing of storms and will be accompanied by world Extreme events forecasts.

MARCH 2009: Wild contrasts. Stormy start. Windy and wintry at times with further gales and storms in North. Short bursts of Spring in South / SouthEast.

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 wintry blasts. The South and SouthEast will have some short bursts of warm Spring weather. The end of the month will probably have cold Easterly flow affecting mainly North & East parts.

General development.

1-5th March 2009. Stormy start followed by N/NWly winds and wintry weather.

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

9-14th March 2009. Cyclonic and stormy turning Northerly and wintry.

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

20-27th March 2009. Westerly flow. Strong in North Britain and in most of Ireland. Finer with bursts of Spring in South/SouthEast.

28-31st March 2009. Colder Easterly flow takes over although W Ireland / far SW stays mild.

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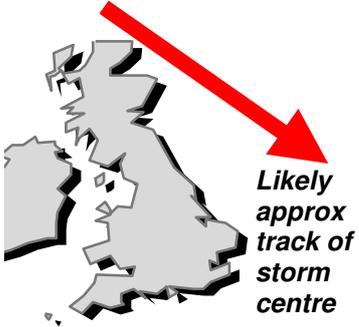
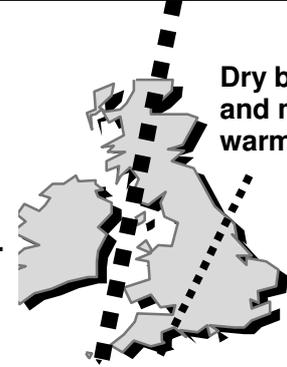
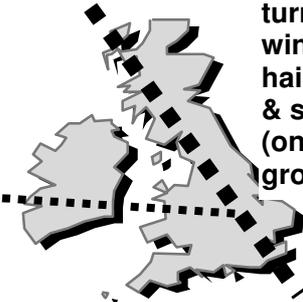
Time windows normally accurate to +/- one day. About 8 of the 10 should be basically correct this month.

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%)

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|--|---|
| <p>Red Weather Warning period 1/2-5 MAR 2009 AB = 80% An intense N European Storm. Heavy rain. Local floods. Thunder & Tornado risk. Gale damage. Mild then (4/5th) turning cold and wintry in North. Likely possible weather map scenario: A Powerful Atlantic Low drives across sea Nth of Scotland or through Scotland and dives to S Scandinavia / Denmark / Holland. Higher press over South/West. Winds: W'ly becoming NW / Cyclonic/NW or N later; Gales/ Sev gales on land. Storm 10/11 at sea /coasts in North.</p> | <p>An intense diving low – prob deeper than 960 mb & widespread gales. Mostly Mild. Turning colder later from North.</p>  <p>Likely approx track of storm centre</p> |
| <p>6-8 MAR 2009 B = 75% Solar Factors: NSF / Q Mostly dry, Some showers in Ireland & West Scotland. Becoming mild or warm with a 'burst of Spring' esp in SouthEast. Likely possible weather map scenario: Low pressure to West/NorthWest & High Pressure to E/SE. Winds: SW/Sly strong bec mod In Ireland & W Scotland. Bec Light / very light in most of England espec SE.</p> | <p>Showery and breezy. Mild bec very mild. Variable sky.</p>  <p>Dry bec fine and mild - warm in SE.</p> |
| <p>Red Watch / Warning 9-10 MAR 2009 C = 65% (Winds & floods subject to further study under SWT25c). Solar Factors: Major Extra Activity, stronger frontal activity, more rain & wind than SMfs. Wet & Windy or stormy. Mild becoming colder. Likely possible weather map scenario: Mobile with Deep Atlantic lows and Sublows. Main low likely to North of Scotland sweeping into Scandinavia. Sublow likely through S England. Winds: SW / Cyclonic very strong / sev gale. High turbulence and tornado event risk.</p> | <p>Wet & windy / stormy. Deluges and local floods. Damaging winds N Scot & N Ireland.</p>  <p>Heavy rain & deluges, strong winds. Floods later. High tornado risk.</p> |
| <p>Red Weather warning period 11-14 MAR 2009 B = 75% Solar Factors: Q /NSF Becoming wintry with hail sleet snow. Frost espec in Ireland, Wales and Scotland. Foggy later. Likely possible weather map scenario: Low pressure(s) centres move into N Sea / Scandinavia as Atlantic ridge builds linked to Arctic. Winds: Bec N'ly mod then light (espec in Ireland)</p> | <p>Bec dry and cold with fog and frost esp N Ire & N Wales.</p>  <p>Showers turning wintry to hail sleet & snow (on high ground)</p> |

Weather periods March 2009 SWT25c(i) Confidential continued

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

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|---|---|
| <p>Red Weather warning period</p> <p>15-16/17 MAR 2009 B = 75% (wind strengths subject to further study under SWT25c).</p> <p>Solar Factors: EA . More rain, wind & thunder than Smfs.</p> <p>Wet and windy in North with gale damage, Some showers & breezy in South.</p> <p>Likely possible weather map scenario:</p> <p>Deep low pressures cross from Iceland to Norway sea. Higher pressure South Britain & S Ireland.</p> <p>Winds: W'ly gales & sev gales in Scot N Ire, N Wales & N England. Lighter in South.</p> | <p>Wet and windy with gale damage esp NI & Scot. Cloudy.</p>  <p>Some showers – less in SW. Breezy. Bright.</p> |
| <p>Red Weather warning period</p> <p>17/18-19 MAR 2009 B = 75% (wind strengths & tornado risk subject to further study under SWT25c).</p> <p>Solar Factors: EA More rain wind & thunder than Smfs.</p> <p>Wet and windy turning colder and wintry in North.</p> <p>Likely possible weather map scenario:</p> <p>Sublows move across Ireland and England while main low heads into N Scandinavia. Higher Pressure in S Scandinavia.</p> <p>Winds: Cyclonic bec Cyclonic E/NE/N'ly in parts.</p> | <p>Bec wintry with hail; sleet and snow on high ground.</p>  <p>Wet & windy. Thunderstorms. Prob mod/high tornado risk.</p> |
| <p>19/20-21/22 MAR 2009 A = 85%</p> <p>Solar Factors: NSF/ Q.</p> <p>Turning mostly dry and bright or fine. Showers in NW. Becoming sunny and warm in SE</p> <p>Likely possible weather map scenario:</p> <p>Lows to North filling somewhat and fronts less active and High pressure builds in South.</p> <p>Winds: W / SW'ly mod in NW, light / v light in SE.</p> | <p>Showery and breezy becoming mostly dry and milder.</p>  <p>Bec dry and bright, fine. Warm in SE.</p> |
| <p>Red Watch / Red Warning</p> <p>22/23 –23/24 MAR 2009 BC = 70%</p> <p>Solar Factors: EA More frontal activity than Smfs (subject to further work under SWT25c)</p> <p>Wet and windy or stormy. Less mild</p> <p>Likely possible weather map scenario:</p> <p>Deep organized low pressure tracks from Iceland region to Norway sea. Fronts cut through Ireland & Britain. Higher pressure block in Finland & Russia.</p> <p>Winds: SW'ly / W'ly bec NW'ly</p> | <p>Wet and very windy / stormy in NW. Mild, colder later. Local floods.</p>  <p>Wet & windy. Local floods poss.</p> |

Weather periods March 2009 SWT25c(i) Confidential continued

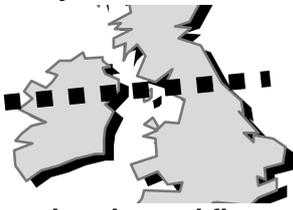
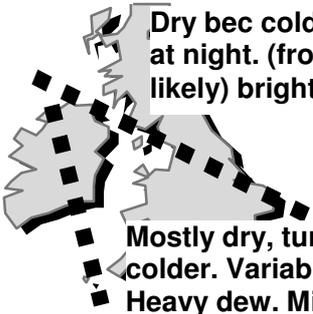
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Confidence levels A (85%) , AB (80%), B (75%), BC (70%); C (60%)

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|---|--|
| <p>24/25 – 27 MAR 2009 C = 65% (transition period) Solar Factors: NSF / Q.</p> <p>Becoming dry and bright in South with a ‘touch of Spring’. Showery and breezy in North. Milder.</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 & decreasing in Nth.</p> | <p>Showery & breezy less windy. Milder.</p>  <p>Becoming dry and fine, warm afternoons.</p> |
| <p>28 –31 MAR 2009 C = 65%</p> <p>Solar Factors: EA (TOP) more active fronts than Smfs but largely blocked by building Scand High.</p> <p>Dry becoming colder in North & East. SW mild.</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 Easterly mod/strong in North East. Prob S’yly light in S Ireland.</p> |  <p>Dry and mild. ‘Spring weather’.</p> <p>Dry bec cold, esp at night. (frosts likely) bright.</p> <p>Mostly dry, turning colder. Variable sky. Heavy dew. Misty.</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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