



# 2013 July 45d ahead Forecast Britain & Ireland graph inc

Produced under Solar Lunar Action Technique SLAT 8C- Summary - Detailed weather periods - Maps - Graphs

Including Solar-based likely corrections to apply to Short-range Standard Meteorology Forecasts

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The Long Range Forecasters

Confidential

2013 JULY 45d (8 weather periods) Brit & Ire SLAT 8C forecast. Prod 13 June, Release 15 June

Very similar to 110-140d issued Mar12 but slightly cooler and more N/S contrasts

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JULY 2013 graph inc

Headline summary & essential development.

**Unsettled, wet and cool in most parts.  
North/South contrasts - South England often finer.  
Strong N/NW'y cold blasts especially after 12<sup>th</sup>.  
Two major wet and windy spells including the  
South, with thunderfloods, damaging hail and high  
tornado risk.**

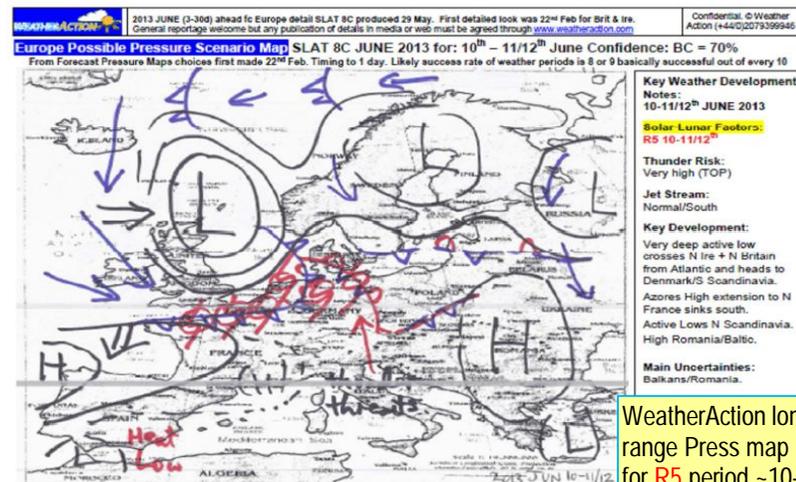
- 1-6<sup>th</sup> Mostly fine, warm in the South; Scotland/North showery.
- 7-9<sup>th</sup> Very wet and windy in most parts. A winter-like storm with thunder and floods including in South.
- 10-20<sup>th</sup> Mostly dry with some showers in South. Ongoing rain + showers in North, frequent N/NW'y winds from 13<sup>th</sup>. Cool.
- 21-26<sup>th</sup> Very wet and windy over whole of Britain and most of Ireland with SW Eire probably less unsettled. Colder later. Somewhat like Winter.
- 27-31<sup>st</sup> N/NW'y flow takes over, becoming finer in West / South. Cold/v cold.

Map details in 8 weather periods p 2-4. Graph +overalls p 5-6

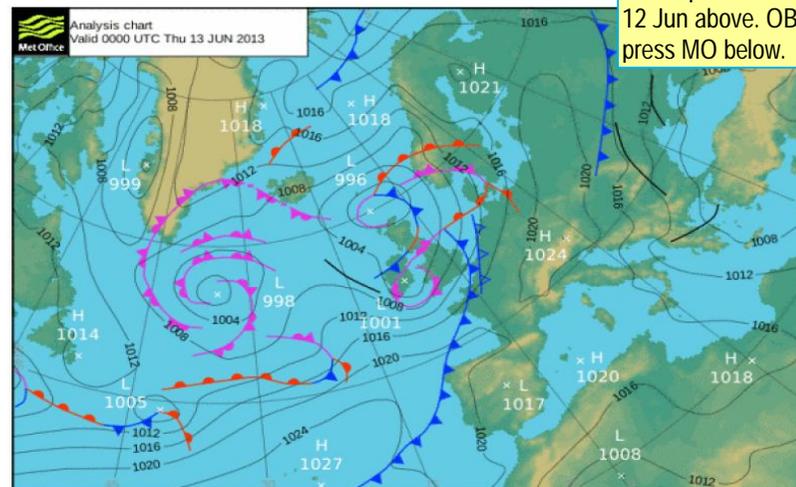
**Weather warnings and corrections to short range standard meteorology**

Standard short range meteorology TV forecasts will underestimate rain, snow, thunder, tornado risk and wind levels in WeatherAction **R5 and R4 'Red' periods**. In or around those periods the standard Met forecasts from 12/24hrs ahead of precipitation amounts need to be typically ~doubled (or ~more for R5). These factors and modifications needed to improve on TV forecasts are independent of the details of pressure patterns, verified or not, up to these times. Forecast users are welcome to WARN others 24 hours ahead.

## Brill WeatherAction pressure match R5 June 10-12 Report page 2



WeatherAction long range Press map for R5 period ~10-12 Jun above. OBS press MO below.



Time periods normally accurate to +/- one day. At least 6 of the 8 should be basically correct this month.

Key Solar Lunar Action Periods Solar factors statement and improvements to be made to short-range forecasts when they come on TV are the most confident. Details are generally less certain.

For warning notes and explanation see page 6

## Atlantic-Europe Maps Report

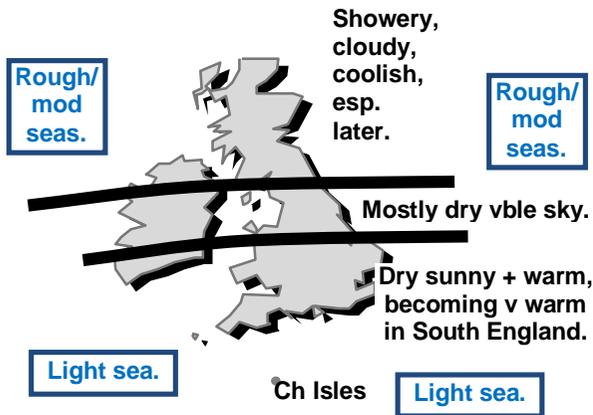
### 'Top' R5 period 10-12 Jun (+/-1d)

WeatherAction Forecast Pressure Map (p1) for R5 10-12 June was based on first choices made 22Feb with more details mid-May. MetO OBS is later part of period (0 utc 13<sup>th</sup>, 2400 12<sup>th</sup>) The heavy rain and damaging winds detail in the period in Br + Ire (map below) + Europe and in USA were well confirmed.

<b>10-11/12 June 2013</b> <b>BC = 70%</b>
Major thunderstorms, large/giant hail, tornados likely with damaging wind, flash floods. Cloudy, turning cool/very cool. Brighter in Eire/West Eire later. Note: track of low uncertain so main thunder + rain could be further North or further South.
<b>Winds:</b> Cyclonic, becoming cyclonic-W'ly / CNW, locally very strong.
<b>Temps:</b> Cool, becoming much cooler.
<b>Sky:</b> Cloudy.
<b>Solar factors:</b> R5 10-11/12 <sup>th</sup>

### 1 – 3 July 2013      B = 75%

**North/South split. Dry, warm/very warm and sunny in South Eng & South Eire; dry with variable sky in N Midlands/ Central Eire; showery, cloudy and coolish (esp NW Scot) in North.** Very similar to 140d forecast produced 12 March, but a bit cooler.



**Winds:** SW'ly light, moderate in Scotland.

**Temps:** Normal/cool Scotland; warm S England.

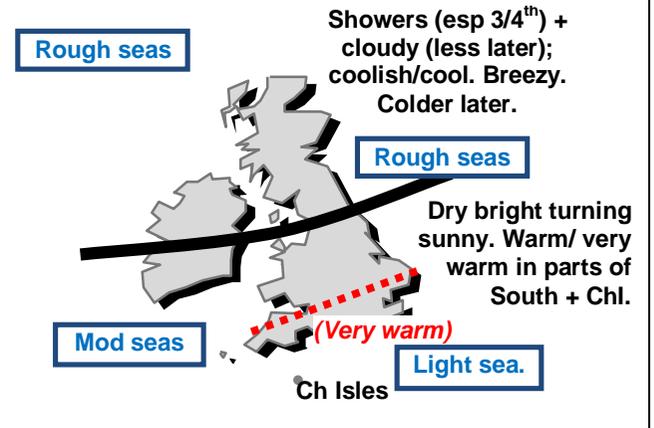
**Sky:** South mostly sunny; Scot + NI + N England rather cloudy.

**Solar Factor:** R2 30 June – 2 July; R3 3-4 July.

**Likely possible weather map scenario:**  
 Moderate Low pressure tracks to N/W Scandinavia with trailing fronts over Scotland/ NI + N England. High pressure (Azores extension) in South extends into France + Low countries/ NW Germany. Low Iceland and South Greenland.  
**Jet Stream:** ~Normal.

### 4-6 July 2013      BC = 70%

**Showery cloudy and breezy in most of North Britain and Northern Ireland. S Eire, Wales, Midlands and South dry and bright. Mostly warm/ very warm (in South).**  
 Very similar to 140d forecast produced 12 March.



**Winds:** SW'ly moderate in North becoming SW'ly light. W/NW'ly in North later.

**Temps:** North coolish; South warm / very warm S/E.

**Sky:** Bright becoming sunny in South; mostly cloudy North.

**Solar Factors:** R3 3-4 July, then NSF.

**Likely possible weather map scenario:**  
 Mobile quite active Low tracks between Scotland and Iceland and heads NE. Active fronts get into most of Ireland and Britain. High pressure over South expands later.  
**Jet Stream : Normal/South.**

Time periods normally accurate to +/- one day. At least 6 of the 8 should be basically correct this month.

Key Solar Lunar Action Periods Solar factors statement and improvements to be made to short-range forecasts when they come on TV are the most confident. Details are generally less certain.

For warning notes and explanation see page 6

7-9 July 2013      B = 75%      ●	10-12 July 2013      BC = 70%      ●	13-17 July 2013      AB = 80%      ●
<p>Very wet and windy over whole of Britain and Ireland, turning cold in Scotland NI and North Eire (Donegal). Major thunderstorms and wind and hail damage. High tornado risk in South and SE widespread local flash floods.            Same as 140d forecast produced 12 March.</p>	<p>Showers decreasing rapidly. Cool NW'ly flow in North parts. Central/SE parts becoming dry and bright/ sunny. SW England and SW Ire dry quite warm and sunny.            Same as 140d forecast produced 12 March.</p>	<p>Generally showery in North and Central parts and mostly dry in SouthWest England and SW Eire. Some showers, heavy at times with hail and thunder in Central/ South England, Wales and Eire. Coolish except for SW which is mostly warm.            Same as 140d forecast produced 12 March.</p>
<p>Very rough seas</p> <p>Very wet + very windy. Thunderfloods, large hail, turning cold.</p> <p>Very rough seas</p> <p>Wet + windy major thunder-storms + thunder-floods esp South. Large hail, high tornado risk.</p> <p>Floods likely</p> <p>Very rough seas</p> <p>Ch I</p>	<p>Mod seas</p> <p>Showers quickly fade; cool, variable sky, brighter later.</p> <p>Mod seas</p> <p>Becoming dry bright/ sunny normal temps.</p> <p>Light seas</p> <p>Light seas</p> <p>Ch I</p>	<p>Rough seas</p> <p>Heavy showers, cool and rather cloudy but sunny periods.</p> <p>Mod/light seas</p> <p>Some showers, mostly dry + bright/ sunny.</p> <p>Mod seas</p> <p>Ch I</p>
<p><b>Winds:</b> Very windy, gales in North, severe gale (9) at sea.</p>	<p><b>Winds:</b> W'ly moderate becoming light; very light South/ West.</p>	<p><b>Winds</b> NW'ly/ Cyclonic – NW/ W'ly.</p>
<p><b>Temps:</b> Turning cool; very cool/ cold in Scotland.</p>	<p><b>Temps:</b> Cool in North. SouthWest normal.</p>	<p><b>Temps:</b> Mostly ~normal ex far SW Eng+Eire warm, Scot cool</p>
<p><b>Sky:</b> Thick cloud.</p>	<p><b>Sky:</b> South becoming sunny – North variable bec brighter.</p>	<p><b>Sky:</b> Sunny periods best in South West.</p>
<p><b>Solar factors:</b> NSF 7<sup>th</sup>; R5 7-9<sup>th</sup> (windy).</p>	<p><b>Solar factors:</b> NSF/Q 10-11; R2 12<sup>th</sup></p>	<p><b>Solar factors:</b> R2 Twice in sub-periods → 15<sup>th</sup> and 16<sup>th</sup> →</p>
<p><b>Likely possible weather map scenario:</b>            Deep active Low centred North of Scotland. Norway Sea blocked by High pressure East Scandinavia/ N Russia. Azores High extends to Biscay. Powerful sub-lows likely to track over England to NW Germany.  <b>Jet Stream moving South (sub-lows to South of Normal).</b></p>	<p><b>Likely possible weather map scenario:</b>            Turning quickly slacker. Low pressure to North of Scotland fills somewhat and (sub) lows in Low Countries/ NW Germany largely fill. Azores High extension to SW Britain and most of Ireland but weak/ moderate. High pressure Scandinavia; Low pressure (Heat low assisted) South Spain and Greece/ Turkey.  <b>Jet Stream: Split.</b></p>	<p><b>Likely possible weather map scenario:</b>            Driving Lows from NW attack British Isles and get largely blocked by higher pressures in France/ Germany and extended Azores High giving variable cyclonic or W'ly / NW'ly circulation over Britain and Ireland. Low pressure S Spain and East Mediterranean.  <b>Jet Stream: South of Normal/ split.</b></p>
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18-20 July 2013 AB = 80% ●	21-26 July 2013 AB = 80% ●	27-31 July 2013 B = 75% ●
<p>Showery, especially at first, cool NW'ly flow over whole of Britain and Ireland, turning brighter. Less cold and mostly dry in Eire and SW England. Cold nights in Midlands and NE England. Same as 140d forecast produced 12 March.</p>	<p>Wet windy and cool at first (21-23<sup>rd</sup>) especially in Scotland and NE England. Less wet in SW. Turning drier and brighter with SW becoming sunny and warm later (25-26<sup>th</sup>). Same as 140d forecast produced 12 March</p>	<p>Showery, increasingly cool and cloudy. Brighter in S/W Eire and SW England, particularly later. N and NE parts colder relative to local norms than SW. Same as 140d forecast produced 12 March.</p>
<p>Mod/ rough seas.</p> <p>Showery (esp 18<sup>th</sup>) cool/ cold (esp N Scotland) cloudy getting brighter.</p> <p>Mod/ rough seas.</p> <p>Dry, variable sky, sunny later.</p> <p>Mod/ light seas.</p> <p>Some showers, cool broken skies, cold nights, brighter later.</p> <p>Mod seas.</p> <p>Ch I</p>	<p>Very heavy seas.</p> <p>Wet windy + cold. Major hailstorms thunder; high tornado risk. Gales/ Sev gales at sea 21-23. Brighter later.</p> <p>Some showers + cool then dry bright/ sunny becoming warmer (25-26<sup>th</sup>).</p> <p>Very rough seas.</p> <p>Very rough seas.</p> <p>Breezy + heavy showers with hail + thunder. Cool, brighter later.</p> <p>Ch I</p>	<p>Rough seas.</p> <p>Mod seas.</p> <p>Prob wintry on high ground.</p> <p>Showery (esp 27-29) + increasingly cold wintry showers – sleet + snow – likely later on high ground in N/E. Mist + fog.</p> <p>Mostly dry, cold. Cold nights cloudy/ broken sky. SW Eire brighter later.</p> <p>Mod seas – light later.</p> <p>Mod seas.</p> <p>Ch I</p>
<p><b>Winds:</b> NW'ly moderate.</p>	<p><b>Winds:</b> NW'ly strong (gales at sea) moderate in Eire/ SW.</p>	<p><b>Winds:</b> Cyclonic becoming cyclonic – NW'ly – N'ly.</p>
<p><b>Temps:</b> Cold in NE, closer to normal Eire/ SW England.</p>	<p><b>Temps:</b> Cold in Scotland and NE England. Cool elsewhere.</p>	<p><b>Temps:</b> Cold and getting colder from North.</p>
<p><b>Sky:</b> Mostly cloudy N/E; Ireland and SW brighter.</p>	<p><b>Sky:</b> Cloudy and dull 21-23<sup>rd</sup>; broken cloud 24-26<sup>th</sup>.</p>	<p><b>Sky:</b> Cloudy, more broken in South and West.</p>
<p><b>Solar factors:</b> R2 18<sup>th</sup> NSF/Q 19-20<sup>th</sup>.</p>	<p><b>Solar factors:</b> R4 21-23; NS 24-26<sup>th</sup>.</p>	<p><b>Solar factors:</b> R2 27-29<sup>th</sup> and 30-31<sup>st</sup>.</p>
<p><b>Likely possible weather map scenario:</b>          Low pressure centred over South Norway/ North North Sea. Greenland High. Azores extension to West France/ Brittany. High pressure Finland. General NW'ly flow over Britain and Ireland. Low S Spain and Italy. Adriatic.  <b>Jet Stream: Split</b></p>	<p><b>Likely possible weather map scenario:</b>          Powerful Low centered probably just South of Iceland/ between Scotland and Iceland with active fronts sweeping polar maritime air across Britain and Ireland 21-23, mores slowly NE 24-26<sup>th</sup> and partly fills. Azore extension to Biscay / N Spain. High Germany and Baltic/ Scandinavia.  <b>Jet Stream: Somewhat South of normal/ split.</b></p>	<p><b>Likely possible weather map scenario:</b>          Cyclonic becoming NW'ly cyclonic over Britain and Ireland. High pressure to West of Ireland and East Europe. Low pressure Norway sea/ North Scandinavia and Spain. Lows Norway Sea, Britain, Spain weakly connected.  <b>Jet Stream: Split.</b></p>



### Easy Look Forecast Graph

### JULY 2013: 45d ahead update. SLAT8C. Normally accurate to 1 day.

Showing likely rain, temperature & 'brightness' levels around the dates shown, NOT PRECISE DAILY PREDICTIONS.

Weekends & holidays shaded. 1981-2010 norms standard.

Region Rest of Britain & Ireland For confidence of each weather period forecast refer to Date row. For possible Alternative Scenarios see notes on maps.

For Solar Factor improvements to Standard Met Short range forecasts when they become available a few days ahead of weather refer to map-tables.

Date	Weekend =>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Confidence =>		75	75	75	70	70	70	75	75	75	70	70	70	80	80	80	80	80	80	80	80	80	80	80	80	80	80	75	75	75	75	75
'IN A WORD'		Mixed		N/S Split			Finer	Thunderfloods		Finer			Some showers		Mostly fine		Showery	COLD		Thunderfloods			Mostly fine		Cold, wintry in parts							
PRECIP % of normal		S/W becoming dry			Scot becoming showery			Mostly dry	Torrential rain		Becoming mostly dry			Scot showery S/W finer		Mostly dry		Showers	Mostly dry		Torrential rain + hail			Mostly dry		Showery. Wintry high ground North.						
WINDS		Light		Mod Nth			Very windy			Light			Light/Mod		16-17 windy		Windy 18-19		Gales + Sev Gales			Light		Breezy		Variable						
Thunder & tornado risk		Low		Mod 3-4th			Top 7-9 <sup>th</sup>			Low			Low		Mod 16-17		Mod 18 <sup>th</sup>		Very high 21-23			Low		Mod 27-29		Low						
MEAN Temps Rel to norm °C		Normal/cool		South warm			Turning cold			Less cold	Quite warm		Cooler		Bec warmer		Cold. Ire less cold		Briefly warmer	COLD			Less cold		Very cold		N Cold					
SKY/SUN % of normal		Bec cloudy N			Fine S/W			Less cloud	Angry thick clouds		Mostly sunny			Gen less sun		Far SW sunny	Var	Cloudy		Brighter		Dark, ominous clouds			Bright/sunny		Cloudy		Broken skies			
Events & w/e / holiday Weather		Generally wet and cool / cold with heaviest rain often Sundays or early in week. See graph for details. 6/7 <sup>th</sup> – Mostly dry/fine, turning wet from West Sunday. 13/14 <sup>th</sup> – Saturday best, Scotland showery. 20/21 <sup>st</sup> – Saturday probably mostly dry. Torrential rain Sunday. 27/28 <sup>th</sup> – Turning wet, especially Sunday.																														

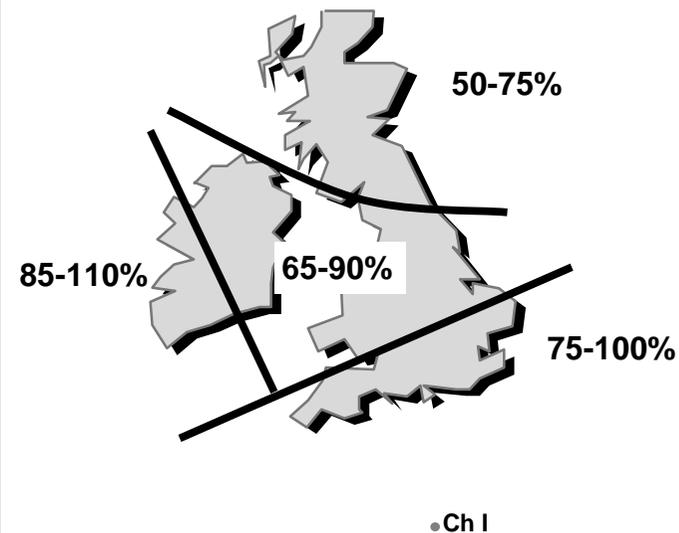
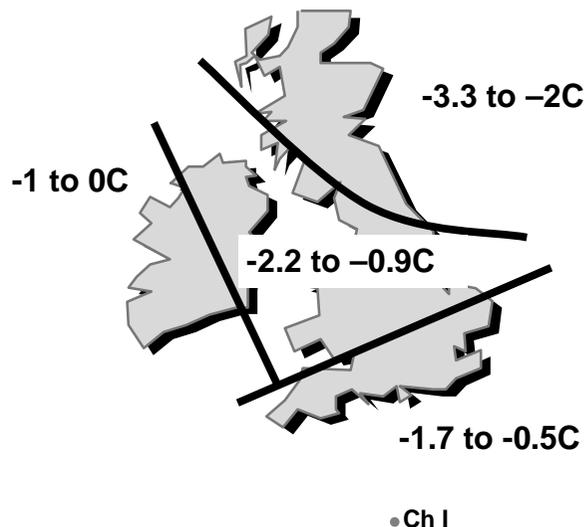
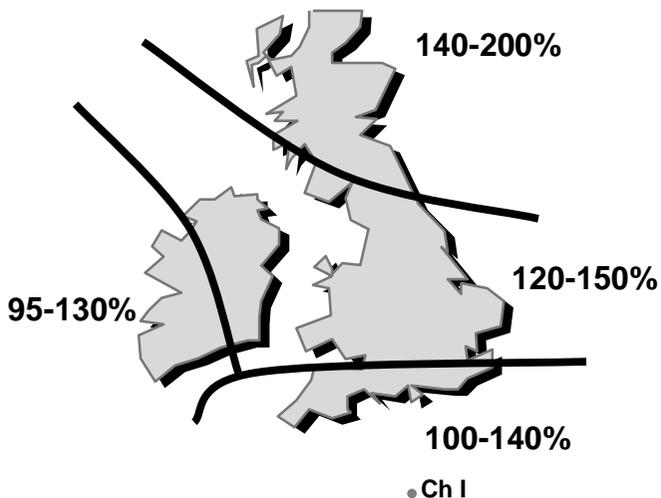
## JULY 2013 SLAT8C Britain & Ireland Forecast deviations from normal.

(rel to 1981-2010 averages)

### PRECIPITATION % of normal

### MEAN TEMPERATURE deviation from local normal

### SUNSHINE/SKY % of normal



Overall wetter than normal. Very wet in North + Central parts. SW Eire closer to normal. Many local variations due to torrential downpours.

Generally colder than normal. Very cold Scotland + NE parts. West Ireland less cold.

Generally duller than normal with very dark ominous clouds at times. West Ireland close to or possibly above normal.

## JULY 2013 Notes & Additional Information

**Confidence order:** TRS SLAT 8C More confident of temperature and rain than sunshine.

**Main uncertainty:** General latitude of lows/Jet Stream (could all be further south)

**Weather Warnings:** Heavy rain/flash floods + hail + tornado risk at times.

Key SLAP (Solar Lunar Action Periods) Solar factors statement and improvements to be made to short-range forecasts when they come on TV are the most confident of forecast statements. Details are generally less certain. In periods of Extra Activity (EA) [formerly ET (Extra Top) Red, Top Red, etc Now R1-R5 (top)] weather fronts are (much) more active than Standard Met Forecasts (Smfs) as on TV a few days ahead of events - making more rain, cloud, thunder, wind, & tornado risk. R5 (Red 5) = most extreme / dangerous events.  
 Q = Quieter. NSF = No Specific Solar Factors. JSS = Jet Stream South tendency. JSN= Jet Stream Normal.  
 Confidence levels A (85%), AB (80%), B (75%), BC (70%); C (65%)

### Confidence levels

'A' - about 85% chance of being essentially right, 15% of being unhelpful.

'B' - about 75% chance of being essentially right, 25% of being unhelpful.

'C' - about 65% chance of being essentially right, 35% of being unhelpful

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

**The Headline summary (page 1)** is the most confident summary statement about the month. **The Key weather type development** (page 1) gives main pressure developments through the month. **The detailed most likely weather periods**, typically of around 4 days duration, are the Solar Lunar Action technique highest resolution long range forecast detail. **They are not to be taken as exact predictions & include confidence levels.**

**The weather period timings** in period details (p 2-4) are *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 that period will have certain (e.g.) 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 poss longer in: (i) long weather periods, (ii) longest range forecasts where 1% uncertainty in 300 days ahead is 3 days or (iii) where consecutive weather periods are similar.]