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**17–19th Nov 2009 TOP SWIP of major extreme weather events world-wide.
DETAILED REPORT Britain, Ireland, N Sea SW Scandinavia & World context**
(NB For more on world detail especially see WANews No 85 to 89 via News archive on
www.weatheraction.com) (to be independently audited)

WeatherAction forecast users understand that our forecasts give a long range picture of likely events especially extreme developments in narrow time windows weeks and months ahead with a high degree of accuracy which has been independently verified as much better than would be achieved by luck.

Typically 85% are well verified and 15% fail and within each forecast there is a general upper level of high confidence and as you go into further detail there will be in general be a lower % rate of verification. We sometimes mention the 50% limit of detail and for the 17th-19th we said there was only a 50/50 chance of actual North Sea Coastal flooding (see video on Oct 28th: on <http://www.kane-tv.com/wa/piers3.html>) The preceding developments were of higher confidence and mostly confirmed. To say we were wrong because a 50/50 warning did not occur is silly. We need to look at all the developments we warned of which could have led there.

To do a proper assessment of forecasts you need to look at a defined set and such are available showing 85% success (independently verified) of extreme events via Forecast accuracy button on www.WeatherAction.com = <http://www.weatheraction.com/pages/pv.asp?p=wact5&fsize=0>

For a particular forecast you also need to look at the whole forecast – see next page - rather than highlighting the errors in extracts of forecasts. Further to looking at this **anyone is welcome to pose further questions - at our PUBLIC Press conference on Frid 27th Nov 12 noon at WeatherAction Office 175 Borough High St SE1.**

We are also happy to offer bets to anyone on key aspects of future forecasts!

WeatherAction long range forecasts are NEVER intended as detailed alternatives to the (normally) 5 to 10 consecutive forecasts standard meteorology will make for any particular period up to 12 hours ahead, and it is absurd and improper for anyone to treat them as such. They are

- (i) A planning tool for likelihood of weather types in regions.
- (ii) Weather Action RED WEATHER WARNINGS give advanced general warnings of EXTREME weather often weeks ahead and are normally corroborated by Met Office Warnings 12 hours ahead. As statements of extreme weather of not necessarily specified detail they are generally highly skilled.
- (iii) a guide to *possible* DETAILED developments
- (iv) AND The Solar factors Statements (sometimes also in conjunction with ENDGAME forecasts which are produced by Weather Action in some dangerous weather periods) they give important improvements which can be made to standard TV forecasts (Numerical Weather Prediction).

SEE page 2 for detailed REPORT on the forecast for the 17th-19th Nov 2009 TOP SWIP

NOTE – Structure of Weather Action forecasts:

'TOP LINE' SWT Context of SWIPS & (eg) extreme events risks



General possible KEY weather (map) scenario



And possible options



Key Solar Factors guide to events INTENSITY



And (on occasions) ENDGAME advice



Forecast detail words maps & graphs

with rain thunder & wind detail normally more reliable than temperature

WeatherAction's **Red Weather Warning** of highest possible weather extreme event danger 17-19Nov was confirmed to the day in Ireland Britain SW Scandinavia and around the world but the details for Ireland & Britain were different from our main proposed option 100 days ahead.

| Forecast Statement in order of CHAIN OF ORIGIN | Comment / Result | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 17-19 NOV 09 Same 45d /100d ahead | No change from 100day ahead first scenario | |
| <p>‘TOP LINE’ SWT CONTEXT</p> <p>Major TOP SWIP 17-19 <i>Other major extreme events will occur across the world around this same short Solar Weather Impact period (SWIP).</i> (in bold on front page of forecast)</p> | <p>Excellent confirmed in</p> <p>1) Timing as in window from 100days</p> <p>2) VERY Extreme events across world.</p> <p>3) Predicted regions & basic* occurrence of explicitly forecast extreme developments (*not necessarily details)</p> | <p>YES</p> <p>YES</p> <p>YES score 5/6</p> |
| <p>Likely possible weather map scenario:</p> <p>Atlantic ridge, powerful deep ‘dartboard’ low moving E centred N of Scot going into Scand</p> <p><i>Uncertainty: Low could be further Nth so fetch of strong winds in N sea insufficient for danger of ‘overtopping’ of sea defences.</i></p> | <p>Ridge started but then stopped (See WANews 88 p2)</p> <p>Deep dartboard low (see map WANews88 p2) moving East (slowly) centred N of Scot</p> <p>Warning of non event risk of N Sea floods</p> | <p>No (Yes part)</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>Good advice</p> |
| <p>Solar Factor Improvements to apply to TV forecasts:</p> <p>Solar Factors: Major TOP SWIP 17-19.</p> <p>Major SWIP (=Extra Activity) means Standard Met would underestimate severity of rain, thunder wind etc from a few days ahead (explained in all forecasts)</p> | <p>CONFIRMED MO Forecast statements on wind & rain got stronger as the main event approached & even 12 hours ahead Environment Agency & Met Office were underestimating danger of floods on TV (See WANews88) (also footnote)</p> | <p>YES</p> <p>(Warning also repeated in WA EndGame statement (i) WANews 87.</p> |
| <p>End Game statement (ii) WANewsno87 (16 Nov) South/West coasts Brit & Ireland also under threat – of West driven Storm surge</p> | <p>AT THIS POINT - issue of WANews87 – sent to subscribers as well as public, forecast users would pay attention to this possibility (which also means NOT snow) – W surge was CONFIRMED -Reports & Refs WANews88</p> | <p>YES</p> <p>(endgame)</p> |
| <p>Winds: NWbecN’yly Sev gale inland N&E. F10-12 sea (gust 75-100mph) Top Thund/torn risk</p> | <p>Sev gale inland (North)</p> <p>F11 confirmed at Sea – Fisher (in N Sea)</p> <p>Thunder Confirmed.</p> | <p>YES</p> <p>YES</p> <p>YES</p> |
| <p>17-19Nov09 A=85% N Sea Storm Surge Stormy with heavy rain – snow & blizzards in Scot & N/E later. N Sea storm & coastal flood warnings East Anglia & Holland 18-19/20th enhanced by new moon 16/17th (Red oval = danger sea level rise) S Ireland & S/W less wet & windy.</p> | <p>Was a very brief N Sea surge driven by the F11 NW wind but v brief</p> <p>Stormy with heavy rain</p> <p>Blizzards / snow no because ridge collapsed</p> <p>East Anglia coast warnings – No although Channel ferry stopped for a while</p> <p>Holland warnings – Yes storms N Holland & Denmark</p> <p>North wetter than S/W England & S Ireland</p> <p>YES & prob YES (despite deluges in Cork these were less than Cumbria – See footnote)</p> | <p>No part Yes</p> <p>YES</p> <p>NO</p> <p>NO</p> <p>YES</p> <p>YES (S/W eng)</p> <p>Yes prob (S Ire)</p> |
| <p>Graph on page 5 states: STORMY esp Nth Ire & Scot becoming wet first</p> <p>S/W less wet (means England since Ire accounted for)</p> <p>Storm winds N S/W (parts) Mod</p> <p>Variable bec colder</p> <p>Cloudy</p> | <p>Graph wettest poss 18th = excellent detailed <u>timing</u></p> <p>Correct all through 17-19 as graph THEN S drier than SW</p> <p>No Mild [<i>prob bec colder – see below</i>]</p> | <p>YES YES</p> <p>YES</p> <p>YES, YES</p> <p>YES, YES</p> <p>NO (to vble)</p> <p>YES</p> |
| <p></p> | <p>(All covered above) Map details which have to be read with the text above where stormy with heavy rain (in the commonly used sense) is spelt out (technically ‘showers’ means from cold fronts) They did NOT turn wintry. In normal Met parlance showers can turn wintry but rain cannot. The map does not explain well the potential storminess except at sea. Note of course there was an expectation that a developing ridge would reduce precipitation later</p> | <p>(Reported above . Map NOT good)</p> |
| <p><i>Becoming colder</i></p> | | <p>YES (? just)</p> |
| <p>Gen overcast, best chance of brightness in the S/W</p> | <p>Confirmed</p> | <p>YES YES</p> |

Footnote on estimations of severity: Typically (eg from monitoring in summer floods 2007) rain levels doubled or more that of standard Met forecasts of about 36/24 hours ahead in periods of Major Extra Activity (Major SWIPS). The required ‘mark-ups’ were similar here but probably the MO 12 hrs ahead was impressionistically better here than in 2007. MO about right in NSF’s. Rain half or less MO in WeatherAction Q (Quiet) periods in 2007.

Cumbria wetter than Cork. Cork – worst floods in 10 years - <http://breakingnews.iol.ie/news/ireland/eymhojaucwid/>
Cumbria prob worst in 100 / 150 years (although some claimed worst in 1000 yrs)