

## October 08 Extreme events forecast 2 of 4

BI Deluges 2 / 2 **Confirmed**

West North Pacific 0/1 **Confirmed (i.e. did not occur)**

Carrib Gulf Mex 0/1

**Confirmed (i.e. did not occur)** Report in Weather Action bulletin + links

### UK Double success for Weather Action Extremes forecasts



Flood water flows down Honister Pass in the Lake District near Keswick where runners were taking part in the Original Mountain Marathon.

**Both of October's dangerous weather events in Britain confirmed WeatherAction's long range warnings to the day of extreme weather driven by 'Major Special/Top Extra Activity Solar factors' ('Red Warnings').**

"Emergency Services should be on extra alert in our 'Red Warning' periods" said Piers Corbyn.

Extraordinary deluges and floods on 24 & 25<sup>th</sup> halted the **Mountain marathon in Cumbria** on 25<sup>th</sup> confirming WeatherAction's first of the two most serious forecasted weather periods of the month.

**The devastating floods and hail at Ottery St Mary Devon on 30<sup>th</sup> confirmed WeatherAction's warning of extreme weather due to a 'dartboard low coming from the West' around 29 Oct to 1 Nov repeated by Piers Corbyn to a meeting of North Devon Grassland Society (farmers) at Barnstaple on 15 Oct.**

**Mountain Marathon halted by floods** Piers, himself a former cross country runner commented on the marathon event on Sky.com "Our long range forecast explicitly warned that due to special solar factors around this period ANYTHING that standard meteorology said where there were active weather fronts would be a significant underestimate of actual rainfall and wind. That would spell extremely adverse rain and wind with likely flooding and high risk of mud slips. Under these circumstances the event should never have started but postponed into our next forecasted time period which was for quieter weather..."

See: <http://news.sky.com/skynews/Home/UK-News/Hundreds-Of-Runners-Take-Shelter-As-The-Original-Mountain-Marathon-In-Cumbria-Is-Hit-By-Floods/Article/200810415128813?lpos=UK News First Home Article Teaser Region 1&lid=ARTICLE 15128813 Hundreds Of Runners Take Shelter As The Original Mountain Marathon In Cumbria Is Hit By Floods>

And <http://www.dailymail.co.uk/news/article-1080406/Floods-turned-mountains-morgue-marathon-runners-stranded.html>

**Freak Hail causes flood chaos at Ottery St Mary Devon 30<sup>th</sup> Oct.** The picture shows deluges of hail carried by flood water against cars.

See; <http://news.bbc.co.uk/1/hi/england/devon/7700167.stm>  
<http://www.timesonline.co.uk/tol/news/uk/article5048581.ece>  
<http://www.fwi.co.uk/Articles/2008/10/30/112881/hundreds-of-sheep-washed-away-in-freak-west-country-storms.html>

The Cumbria and Devon extreme weather events and associated systems – as explicitly warned for their respective time periods by WeatherAction *weeks or months ahead* - were both – as warned - significantly more severe than standard meteorology expected even from 12 hours ahead.



The Tropical Storms which did not occur were for 2-4Oct and issued 31 August

## November 08 Extreme events forecast 4 of 4

**Trop Atlantic 1/1 Confirmed Bay Bengal 1/1 Confirmed West N Pacific 1/1 Confirmed BI 1/1** Damage to Wembley confirmed by WeatherNet however date differs from original forecast but event was late on 10<sup>th</sup> so within 1.5days of time window Report in Weather Action bulletin + links

### WeatherAction 6\* fold hit mid Nov (\*=4/4 + 2/2 Solar notes)

The storms which cracked the Wembley stadium on Mon 10th Nov were associated with the first of WeatherAction's **'Red Warning weather period'** in Nov and a corresponding new active region on the Sun an increase in geomagnetic activity, and the appearance of three new late season tropical storm events and disturbances- in the West tropical Atlantic, the West Tropical Pacific & The Bay of Bengal.

Piers Corbyn said (News Rel 13/4 Nov): "The 10 Nov events were an early expression of our Red Warning weather of 'around 12-14 Nov' - within the range of timing uncertainties. Interestingly on 13th fronts moved maybe 30% faster than Met forecasts of about 14hrs before so rain hit SE England about 6hrs *earlier* and wind & rain was more extreme than MO forecasts and there were quite a few active flood & gale warnings. This Extra activity confirms our warning that wind, rain & thunder would be more extreme than standard met would predict in this period.

The appearance on 13 Nov of a new **Tropical Atlantic** area of disturbed weather - 'Invest 95' (Investigation area number 95) which had 'potential for tropical development'; a developing disturbed **Pacific area** just East of the Philippines; and a late tropical Cyclone in **Bay of Bengal** confirm the WeatherAction forecast of certain Tropical late season storm / depression developments around this period *in general and in timing and regional detail* {see links).

Wembley stadium crack storm caused by 'Red Warning Weather period'

- *New active region on the sun and late-season tropical storm developments.* LINKS:

Wembley Stadium has 40ft crack after storms on Mon 10 Nov

<http://www.newstin.co.uk/rel/uk/en-010-006935576> Solar Terrestrial Activity report see spike on blue graph for 8/9 Nov

<http://www.dxic.com/solar/> Solar Activity data see New region 10Nov (New regions become visible after coronal events which lead to events on Earth which then roughly coincide with the appearance of the new active region - see below for comment\*\*):

<http://www.swpc.noaa.gov/ftpdir/latest/DSD.txt>

**Tropical storms** Invest 95 (Atlantic), West Pacific Development & Trop Cyclone 5 (Bay of Bengal):

<http://www.wunderground.com/tropical/> &

<http://www.wunderground.com/tropical/ABPW10.RAW.html>

**WeatherAction Tropical Storm developments forecast** for 13-15

Nov: <http://www.lowefo.com/forecast.php?s=Global> **Flood warning**

**Eng & Wales:** <http://www.environment-agency.gov.uk/subjects/flood/floodwarning/> **Flood warnings**

**Scotland:** <http://www.sepa.org.uk/FLOODING/warnings/index.aspx>

**Short Range Gale warnings** Met Office:

[http://www.metoffice.gov.uk/weather/marine/shipping\\_forecast.html?area=SoutheastIceland&type=All](http://www.metoffice.gov.uk/weather/marine/shipping_forecast.html?area=SoutheastIceland&type=All)

**Links to WeatherAction November Britain & Ireland forecast:**

<http://co2sceptics.com/news.php?id=2063> &

[http://co2sceptics.com/attachments/ftp/Weather\\_Action\\_Nov08.pdf](http://co2sceptics.com/attachments/ftp/Weather_Action_Nov08.pdf)

## December 08 Extreme events forecast (10 m ahead) Result 1/1 (Brit) Confirmed eg via

<http://www.guardian.co.uk/uk/2008/dec/13/flooding-england-emergency-services> Report in Weather Action bulletin + links

### "Red Weather Warning" Forecast 10-13 Dec 'Brilliant success'

- Storms & floods predicted to the day months ahead – Standard Meteorology TV forecasts (Met Office) only issued warnings as the floods were developing

### Storm in Britain & Ireland part of a worldwide solar activity - driven wave of storms

WeatherAction's Long Range Red Weather Warning for 10th-13th Dec was "stunningly confirmed" said observers as blizzards hit Scotland; gale (force 8 or 9) or storm force (10) winds hit all of Britain & Ireland's sea areas on 12/13 Dec and deluges and floods brought havoc in most parts with up to 3 feet of floods in parts of the SouthWest.

**On Sat 13th Official Environment Agency Flood Warnings or Watches were active in all regions of England & Wales (133 Flood Watches and 44 Warnings). The Warnings included the lower reaches of the Tamar, Exe, Culm, Bristol Avon and Torridge and the North Sea Coast at Bridlington confirming that not just river & land floods would occur but also that sea defences could be under threat in this period as explicitly warned by WeatherAction.**

WeatherAction's headline forecast to customers for December warned of *Storms with damaging gales, deluges and floods separated by cold interludes with snow* and *highlighted 10th-13th as a Red Weather Warning period*. The WeatherAction forecast graph also specifically stated **FLOODS** for the weekend 13-14th Dec.

"We are very pleased with these results" said Piers Corbyn astrophysicist and chief forecaster for WeatherAction who generate the forecasts from solar and magnetic effects of the sun. "Users of our forecasts are much better warned than by relying only on standard meteorology. "We gave **ten months warning** of these storms and floods with extra detail one month ahead while the Met Office gave at best only a few hours alert of **severe** weather. We also specifically and successfully warned that standard meteorology computer models would underestimate storms and rain in this period." => Full Report included in End Year News Release via: <http://www.lowefo.com/pdf/News081229Word.pdf> or <http://co2sceptics.com/news.php?id=2384>

## January 09 Report in Weather Action bulletin with links Extreme events forecast 3 of 4

USA 1/1 Confirmed S Indian Ocean TC1/1 Confirmed West N Trop Pacific 0/1 Confirmed (i.e. did not occur)

Brit 1/1 Confirmed See links & links therein

### Bulls-Eye for WeatherAction Extreme events forecast 6-8 Jan 2009 AND extreme events on ALL continents

The massive ice, freezing rain and snow deluges which hit North & NorthEast USA around 6-8 Jan 2009 and the South Indian Ocean *Tropical Cyclone Dongo* which began forming 8 Jan were both forecast to the day in the WeatherAction public video of 19 Dec and all continents had simultaneous extreme weather events

- See video <http://vimeo.com/2736721> and news releases and reports: <http://co2sceptics.com/news.php?id=2384>; <http://www.lowefo.com/pdf/News090106.pdf> , <http://www.wunderground.com/tropical/> , [http://www.wunderground.com/tropical/tracking/si200906\\_sat.html#a\\_topad](http://www.wunderground.com/tropical/tracking/si200906_sat.html#a_topad) .

Videod 19 Dec 2008 ( <http://vimeo.com/2736721> ) Piers Corbyn astrophysicist of WeatherAction announced a new Major 'SWIP' - Solar Weather Impact Period (= 'Extra Activity period') for around 6-8 Jan 2009 & forecast three major specific (near) simultaneous weather extreme events; two related to this SWIP, and One for the next (10-11/12 Jan) and warned there would also be other near simultaneous major extreme events around the world in these periods. The TWO events for around 6-8 Jan and the ONE for Around 10-12/13 Jan were:

\* **Around 6-8 JAN 2009 North / NorthEast USA** (and SE Canada) **Extremely SERIOUS Massive Ice storms / Freezing rain and snow deluges and blizzards** with build up of smaller blizzards from start /2nd Jan.(85% confidence). "These are likely to be WORSE than the snow & deluges which have already battered much of USA and the whole of Canada" said Piers

\* **Also around 6-8 JAN 2009 South Indian Ocean** (ie Indian Ocean South of India) **formation of major Tropical Depression or Tropical Cyclone.** (75% confidence)

\* **Around 10-12/13 JAN 2009 Formation of unusual winter West North Tropical Pacific winter Tropical depression / storm/ Typhoon probably just East of Philippines with Philippines hit likely.** (75% confidence). *Rather than off the Philippines a major storm occurred further south in the Java Sea in this period*

*The North & NorthEast USA event was impressively confirmed with ice storms, freezing rain and snow deluges and consequent widespread travel disruption and chaos; and near simultaneous major extreme events on ALL CONTINENTS: ( see <http://co2sceptics.com/news.php?id=2384> ; <http://www.lowefo.com/pdf/News090106.pdf> )*

### Sudden Warming of stratosphere linked to Hurricane winds predicted by Weather Action solar-driven forecast - implications for the future of forecasting & theories of global warming & climate change

• (from p1) Press release also on: <http://www.lowefo.com/pdf/News090128.pdf> or <http://co2sceptics.com/news.php?id=2648> <http://co2sceptics.com/news.php?id=2595>

The 'hurricane winds' which brought destruction and death to South France & North Spain on 23/24 Jan {Links1} and exceptional low pressure system in the Atlantic 22/23 Jan were accompanied by a dramatic and sudden warming of the (polar) stratosphere (the upper atmosphere). All these events were associated with WeatherAction's long range warning\* for the **most extreme winds of the winter** (Dec to Feb) to occur 'around 22/23 Jan' [\* from forecast maps and comments issued 22 Dec which included a *Very High risk of thunder & tornado events' in vulnerable places - not Britain & Ireland in this case. Poss of storm 10/11 /hurricane 12* were warned of in circulated forecast].

**Piers Corbyn**, astrophysicist of WeatherAction long range forecasters said "We are very pleased with the accuracy of this forecast. We nailed the most extreme storm events of winter (Dec-Feb) down to only 2 days and now - even more significantly - we find this forecast period of 'around 22/23 Jan' was accompanied **at the same time** with a Major Sudden Stratospheric Warming (**Links2**) Event which means the polar regions of the upper atmosphere - higher than aeroplanes fly - got suddenly warmer (= less cold jumping from minus 80°C to minus 40°C).

"These stratospheric warming events are associated with events on the sun including X ray & Ultra violet emissions and energetic charged particles coming from the sun. "Our prediction of the resulting effects of these events on the lower atmosphere where weather happens is the basis of our long range forecasts so this observation helps point towards chains of events or parallel events all the way from the surface of the sun and the solar corona through 93 million miles of space to the earth's magnetic field, the upper atmosphere, **changes in the jet stream** and then weather and winds at your door. We may soon be better able to predict other stratospheric warming events and more of the extreme weather events which can be associated with them.

**"This finding means that any suggestions that extreme storm events are somehow caused by man-made CO2 are complete nonsense and claims that stratospheric warming and weather changes are driven by cosmic rays originating light years away are also unworkable. Our own star, the Sun, is in charge" Confirmed**

**Links1** re 'hurricane winds' around 22/23 Jan:

<http://news.bbc.co.uk/1/hi/world/europe/7848719.stm#map> **European storm death toll mounts** - Winds of up to 107 mph hit SW France / N Spain on night of 23rd / early 24th

<http://www.nationalpost.com/news/story.html?id=1214876> USA The storm has world coverage)

<http://www.bbc.co.uk/weather/world/news/24012009news.shtml> **Strongest storm for a decade lashes France** by Alex Deakin

**Links2** See these dramatic spikes in the stratospheric temperature graphs .

<http://strat-www.met.fu-berlin.de/products/figs/ecmwf1/temps.gif> <http://www.cpc.ncep.noaa.gov/products/stratosphere/temperature/10mb9065.gif> - shows this SSW is largest for 30 years.



**The Day The Sea Froze 7<sup>th</sup> Jan 2009**

**Bournemouth** Nick & Clina Hopwood & son Tom walk on the beach at Sandbanks where the sea froze  
<http://www.bournemouthcho.co.uk/news/4030814>.  
[THE DAY THE SEA STOOD STILL/](http://www.bournemouthcho.co.uk/news/4030814)

**February 09 Report in Weather Action bulletin with links Extreme events forecast 4 of 4**  
**= USA 1/1 Confirmed Brazil 1/1 Confirmed Queensland 1/1 Confirmed Brit 1/1 Confirmed See links & links therein**

**World events in major SWIP 3-6 Feb: MidWest blizzards - Brazil superfloods - Queensland Cyclone – UK Snow deluge+ thunder+ tornado**

**4-hit 'stunning' success for WeatherAction world extreme events forecasts 3-6 Feb**

**- US MidWest blizzards - Brazil superfloods - Queensland Cyclone – UK Snow deluge + thunder + tornado**

WeatherAction scored 'stunning' 4-fold success for Piers Corbyn's Solar Weather Technique world extreme events long range forecasts for the 'Major Solar Weather Impact Period' (SWIP) 3-6 Feb – which included the early Feb UK snow deluge <http://www.lowefo.com/pdf/News090130.pdf>.



see also p6

White out in Porter County USA in 3-6 Feb SWIP

Piers Corbyn said "The 'SWIP' of 3-6 Feb was a major driver of extreme weather events. Predictable solar events – which we can foresee 12 months ahead - and changes in sun-earth magnetic links and a special extra factor related to major Sudden Warming of the Stratosphere in polar regions which happened in our last major SWIP of 22/23 Jan created the conditions in this SWIP for the dramatic snowstorms with thunder and high tornado risk in the UK (confirmed by a winter tornado in Devon); and the three other very major world events which WeatherAction specifically predicted. The US Midwest snow deluge (where we correctly warned 'one or two feet of snow possible'), floods of Biblical scale in Brazil and Tropical Cyclone developments around Queensland Australia all add to WeatherAction's 85% plus success rate in 66 extreme event forecasts in the last 12 months.

**Yet another winter storm hits northeast USA** by Tomasz Schafernaker Feb 3 / 4

<http://www.bbc.co.uk/weather/world/news/03022009news.shtml>

Northwest Indiana gets over two feet of snow - Feb 4

<http://www.wthr.com/global/story.asp?s=9791454>

Sudden snow Deluge Indianapolis Tue Feb 3

[http://www.usatoday.com/weather/storms/2009-02-03-indiana-snowfall\\_N.htm?csp=34](http://www.usatoday.com/weather/storms/2009-02-03-indiana-snowfall_N.htm?csp=34).

Snow deluge between New York & Ottawa Feb 5 [http://www.bbc.co.uk/weather/world/north\\_america/#no\\_url](http://www.bbc.co.uk/weather/world/north_america/#no_url)

<http://www.1stheadlines.com/cgi-bin/get1stheds.cgi?search=USA%20Today-Weather>

Heavy snow batters Porter County (Good pics) <http://www.post-trib.com/1414357.snow.article>

**Brazil floods picture** (note there were waves of storms)

<http://archive.wn.com/2009/02/04/1400/uruguaymedia/>

CNN showed thuderstorms all over South Brazil on 3 Feb & weathermaps showed very heavy rain 4 Feb.

**Torrential rain is easing in flooded Ingham in north Queensland** as the clean-up begins- Feb 5-amazing pic

<http://www.abc.net.au/news/stories/2009/02/05/2482759.htm>

Australia braces for fresh floods - amazing picture Feb 5

<http://english.aljazeera.net/news/asia-pacific/2009/02/20092554715419403.html>

Flooded N Queensland fears SECOND cyclone in a week - Feb 4 (Note NEW event and rain as in WeatherAction forecast as well as ramping-up of earlier storm - forecast is for Formation &/or Rapid development of Tropical Cyclone / depressions) <http://www.abc.net.au/news/stories/2009/02/04/2482587.htm>

Cyclone Ellie hits Australia - BBC News3 Feb <http://news.bbc.co.uk/1/hi/world/7868478.stm>

<http://www.turkishweekly.net/other-news/109828/cyclone-ellie-hits-australia-bbc-news.html>

Flooding rains wreak reptile havoc in Australia Sun 1 Feb

[http://www.usatoday.com/weather/floods/2009-02-04-australia-floods\\_N.htm?csp=34](http://www.usatoday.com/weather/floods/2009-02-04-australia-floods_N.htm?csp=34)

**TIMING of Extreme Weather events** - note from Piers Corbyn: "All three of these extreme events also show evidence of slightly earlier events around 1-2 Feb from an earlier SWIP then. Waves of storms involving subparts of SWIPs or close together pairs of SWIPS (in this case) are quite normal but the specific issued forecast was for the major events in defined regions to be in the main likely period of 'around 3-6 Feb' & which were all verified in the core time rather than within one or two days either side"

**3rd Feb 2009 Cornwall tornado/waterspout WITH PIC & VIDEO LINK**

<http://astrophotoweather.smfforfree4.com/index.php?topic=998.0>

# March 09 Extreme events forecast 3 of 3 Report in Weather Action bulletin with links See links & links therein

**USA 1/1 Confirmed NW Australia 1/1 Confirmed Scotland 1/1 Confirmed**

## NW Australia Tropical Cyclone Ilsa 17 March - First SWT major Southern hemisphere cyclone forecast

MONITORING REPORT FOR SWIP (Solar Weather Impact Period) "Around 15-17 Mar 09" 3 extreme weather events forecast announced at Press conference London 27 Feb and in bulletin 28 Feb 09. The forecasts (espec US/Canada Snow/rain & Cyclone off NW Australia) were also announced at the final plenary session of the International Climate Change Conference New York by Piers Corbyn on 10 March and were for:

=> **Severe gales in Scotland & North Sea (Ew0909)**

=> **Heavy snow & rain in Central Canada /USA & NE USA (Ew0910)**

=> **Tropical Cyclone off NW Australia (Ew0911)**

**ALL three events confirmed in General. General score 3/3; Detail score 7/9**

=> **55 knot winds in Scotland;**

=> **Deep Active Low crossed N USA/ S Canada giving heavy rain & Snow but prob less intense than expected.** Also at same time major Floods S of Chicago due to snow melt exacerbated by rains;

=> **Tropical Cyclone 22 (Ilsa) formed off NW Australia**

**General level Score 3/3** = Confirmation to question: Did basic events occur in the general region within the core time allowing 24hr each side on UT (GMT) ?:

**More detail Score = 7/9** (marks being 2/3, 2/3, 3/3) **Event Details Below:**

### 1. SCOTLAND Ew0909:

**Confirmed: (Severe) gales (and heavy rain)**

Event occurred but half day early so detail score 2/3. The Specific forecast map of active deep low(s) tracking Eastward with centre N of Scot also confirmed on 14th but half a day early.

[http://news.bbc.co.uk/weather/hi/uk\\_reviews/newsid\\_7945000/7945194.stm](http://news.bbc.co.uk/weather/hi/uk_reviews/newsid_7945000/7945194.stm)

It was partic windy in Scotland as in forecast 'around 15-17 Mar 09 (within half day of core period)

Review of UK weather 14th March 2009 "...It was a particularly windy day across Scotland and parts of northern England with westerly gales in many areas. For example, Rosehearty in northern Aberdeenshire recorded a gust to 55 knots between 1500 and 1600...."

[http://news.bbc.co.uk/weather/hi/uk\\_reviews/newsid\\_7947000/7947764.stm](http://news.bbc.co.uk/weather/hi/uk_reviews/newsid_7947000/7947764.stm) :

Review of UK weather on 16/03/09 There was plenty of rain overnight across central and north-western parts of Scotland and parts of Northern Ireland. The heaviest of the rain occurred across the mountains of north-west Scotland....**Highest Rainfall: Lusa (Highland):24.2mm**

### 2. USA/ Canada Ew0910

**Generally confirmed with most rain/snow in NorthWest & some central USA (& corresponding parts of S Canada) & East USA** (separate systems). Active multi-fronted well-organised (partic on 16th) low tracking East centred S Canada see maps [http://www.hpc.ncep.noaa.gov/dailywxmap/index\\_20090317.html](http://www.hpc.ncep.noaa.gov/dailywxmap/index_20090317.html)

Events occurred but confirmation of location/intensity not as good as previous snow deluges hence 'detail score 2/3'

<http://www.accuweather.com/news-story.asp?partner=&article=2>

Rain and Snow Still Target the Northwest Updated: Sunday, March 15, 2009 2:35 PM

Through the day on Monday, a chilly and moist flow of air off the Pacific Ocean will continue to shape weather over the Pacific and **interior Northwest. Rain and snow will fall over the region with a wide-range impact.** It will stay rainy and chilly between the coast and the foothills of the Cascades. Rainfall will tend to be moderate with rain falling intermittently rather than steadily. Highest rainfall in California's Klamath-Siskiyou and northern Redwood regions will reach 1-2 inches. Along the Cascades to the northernmost Sierra Nevada, snowfall will be locally heavy with new snowfall of 1-2 feet above the key passes in the southern Cascades. Moderate amounts of new snow will fall at pass level along I-90 in Washington and I-80 over the northern Sierra Nevada of California. However, significant snow will hold above I-5 where it crosses high country in northern California to southern Oregon. East of the Cascades, **weather impact will vary widely eastward to western Montana and northwestern Wyoming.** Locally heavy snowfall of more than 1 foot will blanket higher mountains in western Idaho and in the Yellowstone region. Yet for most of the region, rain and snow will tend to be spotty with showers of rain and higher snow leaving mostly light amounts through Monday. Story AccuWeather.com Senior Meteorologist Jim Andrews.

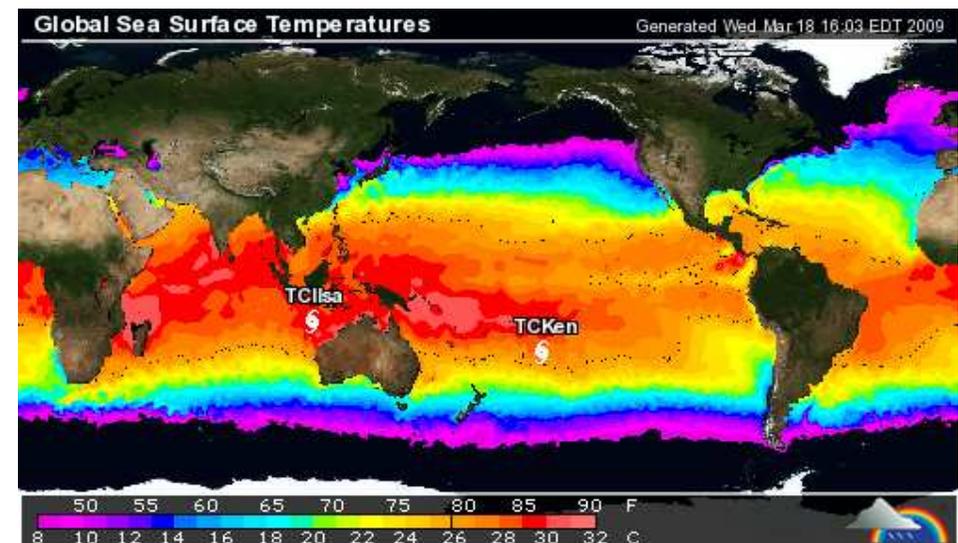
**15 March USA Deep low coming across N USA / South Canda re above forecast.**

**Floods in Red river basin (S of Chicago) from snow melt and rain just before and during this SWIP.**

[USA 16th March 2009 from NOAA site] PRECAUTIONARY/PREPAREDNESS ACTIONS...THIS FLOOD WARNING IS A RESULT OF HEAVY RAINS ACROSS SOUTHERN IOWA THROUGH CENTRAL ILLINOIS BASIN EARLIER THIS WEEK ON THE ORDER OF 3 TO 5 INCHES... THE NATIONAL WEATHER SERVICE WILL MONITOR THIS SITUATION AND ISSUE. FOLLOW UP STATEMENTS AS CONDITIONS OR FORECASTS CHANGE. SAFETY MESSAGE...NEVER DRIVE CARS...TRUCKS OR SPORT UTILITY VEHICLES THROUGH FLOODED AREAS. THE WATER MAY BE TOO DEEP TO ALLOW FOR SAFE PASSAGE....

### 3. SOUTH INDIAN OCEAN off NW Australia Ew0911

**CONFIRMED - Tropical Cyclone formation of TC 22 = Ilsa level TC1 occurred in forecast area within forecast time period. TC4 was expected. Detail, event, place and time all confirmed detail score 3/3.** Maps below = Mar 18th 16.03EDT = 20.03 UTC TC Ilsa (& Ken) already formed <http://www.wunderground.com/tropical/>



AUSTRALIAN BUREAU OF METEOROLOGY TROPICAL CYCLONE WARNING CENTRE PERTH <http://www.bom.gov.au/products/IDW60281.shtml> indicates Ilsa (=TC22) was TC Cat1 at 09hrs WDT = 00hrs GMT on 18th and therefore formed by then ie on 17th March UTC **TROPICAL CYCLONE FORECAST TRACK MAPS via : Tropical Cyclone Advice** . Tropical Cyclone Ilsa (TC 22) issued at 9:53 pm WDT Wednesday 18 March 2009 gave useful info.

## April 09 Extreme events forecast 4 of 5

**US/Can 2/2** Both confirmed but location slightly out on 11-15<sup>th</sup> Apr (So 1.5/2 on stricter North America scale) **Queensland 2/2 Confirmed**  
**Bangladesh 0/1** Report in Weather Action bulletin with links See links & links therein

**WeatherAction Extreme forecast events April Report.** General Success 4/5. Best confidence = best scores.

### Around 5-7 April Tropical cyclone (formation) off Queensland; land touch not likely. Confidence 75% (Ew0912)

**General development(s) confirmed but not full detail. Detail score 2/3. Tropical Storm Lin out in Pacific 4-5 May** ([http://weather.unisys.com/hurricane/s\\_pacific/2009/index.html](http://weather.unisys.com/hurricane/s_pacific/2009/index.html)) and Australian Government Bureau of Meteorology Queensland Strong Wind Warning *Bowen to St Lawrence Queensland* Expect SE winds to increase to 25/33 knots Wednesday (April 8<sup>th</sup>) afternoon. Seas rising to 3 metres in open waters.

### Around 11-15 April North USA / South Canada - Massive disruptive snow deluges and major storms of extreme wind snow and rain / sleet / hail eg South Central Canada (Lake Superior inc) & North Central USA ( eg Minnesota) More snow and extreme hail/rain . Confidence 85% (Ew0913)

**Confirmed.** Massive amounts of snow & rain over wide areas eg Colorado 11 inches of snowfall Easter Sunday 12<sup>th</sup> April: <http://www.kktv.com/blogs/talkweather/42886677.html> As storm centre moved N/E further precip further North. It was windy & wet (eg) in Winnipeg Canada [http://www.climate.weatheroffice.ec.gc.ca/climateData/hourlydata\\_e.html](http://www.climate.weatheroffice.ec.gc.ca/climateData/hourlydata_e.html)  
Note: For same time window within 1 day On Thurs 16<sup>th</sup> afternoon a whirlwind ('mini-tornado') hit Newport S Wales UK <http://news.bbc.co.uk/1/hi/wales/8003444.stm> confirming HIGH tornado relative risk BI forecast.

### Around 18-21 April. Tropical cyclone (formation) off Queensland, chance of land hit < 10%. Confidence 75% (Ew0914)

**Confirmed Tropical Depression, not Cyclone, So detail: 2/3:** HIGH SEAS WEATHER WARNING FOR METAREA 10 ISSUED BY THE AUSTRALIAN BUREAU OF METEOROLOGY, BRISBANE 1827 UTC 19 April 2009. GALE FORCE WIND WARNING FOR NE AREA. SITUATION. A low, central pressure of 992hpa, was situated near 29.9S 159.4E at 191800 UTC and is expected near 29S 161E at 200600.

### Around 23-28 April. Central west America Major Thunder & hail eg Colorado Mountains and south to Nevada. Also notably high geomagnetic activity in this period. Confidence 85% (Ew0915)

**Confirmed.** 'Many Midwest nasty tornadoes'. Redings Mill MO (=Montana) NWS STORM PREDICTION CENTER NORMAN OK 1250 PM CDT MON APR 27 2009 SEVERE THUNDERSTORM WATCH 201 IN EFFECT.

The deadly deluge in Zennor Cornwall 25<sup>th</sup> coincided with the V High tornado/thunder SWIP 25-26 graph peak rain in the 'Rapid Change' period BI fc.  
[http://news.bbc.co.uk/weather/hi/uk\\_reviews/newsid\\_8019000/8019371.stm](http://news.bbc.co.uk/weather/hi/uk_reviews/newsid_8019000/8019371.stm)

### Around 23-28 (typo 25 corrected to 28) April Central Bangladesh. Hail and damaging storms & tornadoes Confidence 75% (Ew0916).

**Not Confirmed.** Heatwaves recorded but details of breakdown not clear in period.

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