



Extreme Events (World) Forecasts Assessment March to Sept 2008

Weather Action forecasts are the only long range forecasts with independently tested & proven skill.
Longer Range Forecasts for Britain & Ireland: www.weatheraction.com or for Europe & World: www.lowefo.com

WITH INDEPENDENT AUDIT & Comments Agreed BY WEATHERNET Ltd

<http://www.weathernet.co.uk> – See Column 6

EXECUTIVE SUMMARY

These WeatherAction Solar Weather Technique public Trial forecasts of extreme events were made during 2008 under SWT as developed at the time (version SWT24D and SWT24E, noted) and were produced following specific interest in some types of events from Hedge Funds and Insurances brokers.

These are all extreme events (World Trial, NOT Europe) forecasts publicly issued by WeatherAction for the period March to Sept 2008. They cover certain types of events ONLY, and were NOT intended to be forecasts of all expected extreme events in any area, region, category or period.

Of 49 extreme events Trial forecast statements March to Sept 2008 The WeatherAction SWT forecast was confirmed on 42 occasions and there were forecast errors on 7 occasions (See Table for details)

Success rate 42/49 = 86% (ie better than 85%)

In sections the success rates were:

US/Can land extreme events Blizzard, tornados, NY heatwave, Manitoba deluge 4 / 4 (Yell highlights)

These were forecast numbers 0803(1), 0803(2), 0807(7), 0809(2)

July & Aug Tropical Storms & West North Pacific Typhoons: 16 / 22

Atlantic Tropical storm End game forecasts: 7 / 7 [0809(1) in blue]

Sept 5-27 Tropical storms & West North Pacific Typhoons: 15 / 16 (Last page of table)

Forecasts were carried out under SWT 24D and SWT 24E. The new SWT25 should improve results and detail

See next pages for tabulated results

Forecast Number & SWT	Date issue	Forecast statement	Key Result	Confirmation Refs	Weathernet Comment On key Result statement	SPACES FOR YOUR USE NB Forecast Power / Prob of success & odds against by chance. (for future) & Notional win / loss (neg) on stake of one unit (for future!) may be discussed in future along with some 'Detail scores'	
0803(1) US/CAN SWT24D	First made public 22 Feb 08 also announced at Plenary of International Conference on Climate Change New York 2-4 March 08	(NY slide) Significant US weather event: Major prolonged disruptive snow and blizzards in Midwest around March 9th to 13 th 2008 85% confidence	YES	Refs 1	AGREE		
0803(2) US/CAN SWT24D	21 March	The Forecast warned of Major tornado activity in SE USA (and likely also in more central parts) in period 'around 31 Mar to 3 April'.	YES	Refs 2	AGREE		
Period 5-20 July 08 all SWT24E announced 27 June at WeatherAction Press conference and carried in bulletin. (Refs 3)							
0807(1) SWT24E	27 June	Around 5th July Tropical Storm / hurricane formation 75% probable - most likely in Gulf of Mexico, Caribbean &/or South Tropical North Atlantic. (Likely tracks: N, NW, West respectively) Landfall 20%	YES (Bertha)	Refs 3	AGREE		
0807(2) SWT24E	27 June	Around 5th July One or two typhoons 80% probable to form - most likely in mid Pacific & heading in curved track NW->N->NE with 30% chance of Japan hit.	NO	Refs 3	AGREE		
0807(3) SWT24E	27 June	Around 14th July One or possibly two Tropical storm/hurricane formation 75% probable (or/& enhancing of existing storm), probability to reach hurricane higher than 5th July possibilities. Similar tracks to forecast for 5th July. Landfall 60%.	NO	Refs 3	AGREE		
0807(4) SWT24E	27 June	Around 14th July Two typhoons likely similar tracks to 5th July Forecast, 80% likely; with 30% risk of a Japan hit. <i>The combined probabilities of typhoons above means there is a 60% chance of a Japan typhoon hit from typhoon formations which start in first half of July.</i>	YES (200807)	Refs 3	AGREE		
0807(5) SWT24E	27 June	Around 18th/19th July Two typhoons 80% likely to form which will hit Philippines &/or Taiwan &/or mainland China.	YES	Refs 4	AGREE		
0807(6) SWT24E	27 June	Around 18/19 July Tropical storm formation 75% likely in South Tropical North Atlantic and <i>heading North*</i> . NO USA Landfall.	YES	Refs 4	AGREE		

0807(7) US/CAN SWT24E	27 June	Around 18/19 July New York area heatwave / hotspell 80% likely of Max temps over 95F in period 18-20th July.	YES	Refs 4	AGREE		
0807(8) SWT24E	22 July	“Around 24-26 July: A Typhoon Generation-likely spell in West (Tropical) North Pacific. 2 or 3 Typhoons could form quite likely to East of or near Philippines with PHILIPPINES / TAIWAN or CHINA hit likely”.	YES YES (Taiwan hit)	Refs 5	AGREE AGREE		
0807(9) SWT24E	22 July	<u>Around 28-30 July</u> (action but NOT named storms) Pacific active Tropical depressions likely but only 50% risk of developing into Typhoons forming (if they do) in west central North Pacific and headed NW/N towards Japan but probably veering away to NE (NO Atlantic Tropical storms likely in this period)” Confirmed - No named typhoons or TS formed in this window	YES YES	Refs 3	AGREE AGREE		
0808(1) SWT24E	22 July	<u>Around August 1-2.</u> Similar to 28-30 July for Typhoons but less likely to hit anywhere if formed. Atlantic / Caribb/ Gulf	YES	Refs 3	AGREE		
0808(2) SWT24E	22 July	<u>Around Aug 1-2</u> Tropical Storm formation is LIKELY 31st-1st with Cuba/ Mexico rather than USA landfall likely	YES (but not detail)	Refs 3	AGREE formed 3 rd for General event = Formation. See link Tropical Storm Edouard For detail score is 1 of 2 (since Eduard hit N Texas as a Tropical Storm (= ‘Cat 0’)		
0808(3) SWT24E	22 July	<u>Around 9-11 August</u> 1 or 2 Typhoons likely to form in Central west north Pacific; heading most likely NW-N-NE No Landfall	YES YES	Refs 3	AGREE AGREE		
0808(4) SWT24E	22 July	<u>8-10 Aug</u> Atlantic Tropical Storm formation likely (as 31st-1st) with landfall likely.	NO NO	Refs 3	AGREE AGREE		

0808(5) SWT24E	22 July	<u>Around 15-16 August</u> Typhoon formation likely in central west north Pacific with JAPAN hit likely. At end of this period typhoon more likely with landfall possible in Philippines/ Taiwan/ CHINA in following days. (Atl TS form - none)	YES YES NO (Fay formed)	Refs 3	AGREE AGREE AGREE		
0808(6) SWT24E	22 July	<u>August 19-25 especially 23-25</u> 2 or 3 typhoons likely to form in Central West North Pacific Taiwan/Japan hit likely. (Atlantic TS Formation - none)"	YES (200815) YES NO Gustav formed on 25th 1800	Refs 3	AGREE AGREE (using strong criteria)		
0809(1) TROP END GAME SWT24E	See text Days before the events and ahead of US national hurricane centre.	End Aug & early September Tropical Storm End Game forecasts See REFS 6	YES YES YES YES YES YES YES	Refs 3	7 statements 7 hits AGREE		
0809(2) US/CAN SWT24E	29 Aug	Around 5-9 (esp 5-7) Sept 2008: Canada deluges: Serious deluges of torrential rain - and thunder {announced at London press conference 29 Aug} are likely in the South central Canada - eg Manitoba - which could also possibly involve North central USA (eg North Dakota).	YES	Ref 6A	Agree see new ref 6A (no event reported but severe weather warning issued (i.e. deluges 'likely'))		

0809(3) SWT24E	29 Aug	Around 5-7 (& poss 8/9) Sept ; Typhoon formation or enhancing of existing storms; one or possibly two likely in central west North tropical pacific with NW track. China/ Taiwan hit 50% likely.	YES YES (Taiwan hit)	Refs 3	AGREE AGREE		
0809(4) SWT24E	29 Aug	Around 5-7 (& poss 8/9) Sept : Hurricane (Atlantic Trop storm) formation or enhancing of existing storms. One or two TS formation likely, most prob in Trop Atlantic heading West/NW to graze or hit W Indies /Bahamas .	YES YES	Refs 3	AGREE AGREE		
0809(5) SWT24E	29 Aug	Around 11-12 Sept : Typh new form likely & boost of existing storms in Pacific, subseq JAPAN hit 60% likely .	YES YES	Refs 3	AGREE AGREE		
0809(6) SWT24E	29 Aug	Around 11-12 Sept Existing hurricane boost likely but No new formation .	YES YES	Refs 3	AGREE – Ike AGREE		
0809(7) SWT24E	29 Aug	Around 16/17 (possibly) and very likely 19-21 Sept ; Two Powerful Pacific Typhoon formations with China and/or Taiwan hits . Corresponding TS/Hurricane formation risk very Low.	YES (200812, 200814) YES China hit	Refs 3	AGREE AGREE		
0809(8) SWT24E	29 Aug	Around 22-24 Sept ; Two Pacific Typhoon formations likely heading NW with one subsequent Japan hit or near hit . Corresponding TS/Hurricane formation risk very Low =>These two periods mean 16-24 Sept = Quiet period of NO Atlantic/ Caribb/ GOM formations.	YES YES YES	Refs 3	AGREE AGREE AGREE		
0809(9) SWT24E	29 Aug	Around 25-27 Sept : POWERFUL Pacific Typhoon formation likely with subsequent China/Taiwan hit . Atlantic TS formation likely in same time window on W/NW track keeping in Atlantic. Landfall unlikely .	YES (200815) YES (Taiwan hit) NO	Refs 3	AGREE AGREE AGREE – Kyle formation Ok but S Nova Scotia landfall		

REFS 1 <http://themaxx.info/Site/?q=node/16> , <http://www.nowpublic.com/environment/winter-storm-warnings-us-midwest> , <http://columbusbestblog.com/2008/03/09/>

REFS 2 April issue of WeatherAction Forecast bulletin page 1: USA Extreme weather Forecast Trial News. Visit www.lowefo.com for latest

USA Storms & tornadoes 31 March confirming Weather Action forecast

Weather Action's 2nd public extreme trial forecast for USA was starting to be confirmed on 31 March with major thunderstorms - including some tornadoes - in Oklahoma, Kansas, Missouri & Louisiana: Top Stories: http://www.usatoday.com/weather/storms/2008-03-31-oklahoma-storms_N.htm?csp=34 also try ; <http://www.cnn.com> ; <http://www.1stheadlines.com/cgi-bin/get1stheds.cgi?search=USA%20Today-Weather> . **The Forecast issued 21 March warned of Major tornado activity in SE USA (and likely also in more central parts) in period 'around 31 Mar to 3 April'**. Piers Corbyn said then: "After the success of our trail blizzard forecasts - which massively hit the MidWest from around 8th March we announce a trial forecast for likely major tornado activity within SE USA (including Florida). This trial forecast indicates a high risk (85%) of significant tornado events in the SE region and possibly more central parts (65%) around 31 Mar to 3 April 08"., <http://www.wunderground.com/tropical/>

REFS 3 **Extreme events July 5-20** Piers Corbyn speaking at WeatherAction's Press conference on 27th June (see New World forecasts see www.lowefo.com) said their successes earlier this year and so far this summer represented significant advances which with new work on Typhoons now made release of 7 more public forecasts possible (while longer ahead forecasts are available to customers). Generally Results verified on <http://www.wunderground.com/tropical/> <http://agora.ex.nii.ac.jp/digital-typhoon/year/wnp/2008.html.en>

REFS 4 Superb Success for new World extremes Long range forecasts

Weather Action scored a significant hat-trick and eager praises for forecasts of events around 18/19 July in the USA and Pacific - and the success is continuing.

Weather Action trial extreme events forecast issued 1st July on www.weatheraction.com & www.lowefo.com for the period **around 18/19 July** correctly forecasted *the formation of Typhoons in the West North Pacific; the formation of Tropical storms in the Atlantic/Caribbean/ Gulf Of Mexico region; and for 18th-20th a New York area heatwave in which temperatures would likely top 95F (35C).*

These three extreme events were all confirmed: Typhoon Kalmagi (200807) (NS+status 15-20th): <http://agora.ex.nii.ac.jp/digital-typhoon/summary/wnp/s/200807.html.en> . Hurricane Dolly formed 20th <http://www.wunderground.com/hurricane/at20084.asp> and Newark (NY) reached 98F on some of 18/19/20th <http://www.1010wins.com/Heatwave-Day-Four--Heat-Advisory-in-Effect/2614664>

REFS 5 **Typhoon (& US Storms) prospects in run-up to & during Olympics.** announced by Piers Corbyn of WeatherAction on 22 July

"Around 24-26 July: A Typhoon Generation-likely spell in West (Tropical) North Pacific. 2 or 3 Typhoons could form quite likely to East of or near Philippines with PHILIPPINES / TAIWAN or CHINA hit likely". This was superbly confirmed by **typhoon Fung Wong** (200808) reaching Named status (= 'formation', green on maps) on 25 July and tracking through Taiwan into China: <http://agora.ex.nii.ac.jp/digital-typhoon/summary/wnp/s/200808.html.en>

We also forecast for US/Atlantic *"..In this period although Atlantic area Trop depresns may start they are unlikely to reach Trop Storm status".* & indeed no named TS formed this period: <http://www.wunderground.com/tropical/>

REFS 6 **SWT breakthrough in Storm Gustav 'endgame' forecast.**

WeatherAction is now applying its revolutionary Solar-based technique to improve standard meteorology forecasts in the all important 'end-game' predictions for hurricane (& typhoon) landfalls. Despite dire warnings **Gustav** did much less harm to New Orleans 31 Aug because it:

- (i) was - *as WeatherAction predicted* - weaker than the USA National Hurricane Center forecast;
- (ii) hit coast - *as WeatherAction predicted* - further West than US Hurricane Center forecasts.

Had it been known Gustav would be this weak New Orleans would not have been evacuated. The application of WeatherAction forecasts could in future reduce unnecessary evacuations.

The 'End Game' for Gustav

On Sunday 31st Aug when the US National Hurricane Center predicted Gustav would reach dangerous hurricane Cat 4 or Cat 5 Piers Corbyn astrophysicist of Weather Action compared the present 'Weather Action Indicators' in his Solar Weather Technique of forecasting with those acting at the time of hurricane Katrina in 2005. His calculations showed that the standard meteorology forecast of the US Hurricane Center were probably overestimates and issued a statement to that effect. About 6 hours after the calculations (which can equally be done days earlier) the USA Hurricane Center downgraded their forecast and said Gustav would reach Cat 3 tops. Later Gustav's track also shifted westward - *More on page 4*

Also see www.Co2sceptics.com & www.lowefo.com for unfolding dramas.

Piers said: "I saw the mayor of New Orleans on TV and thought this must be 'over the top'. I checked out our parameters carefully and mentioned it to a *SkyNews* reporter, however they wanted to discuss the levees rather than the storm strength. We put out a news release anyway and some hours later I got a phone call from a friend in *EuroNews* in Lyon who had just got the latest release from the USA which downgraded their storm forecast - confirming our SWT prediction." Visit www.lowefo.com for full statements & www.wunderground.com/tropical/ for news.

Public warnings: Canada Deluge & Hurricane & Typhoon forecasts:

This forecast follows on a long range string of successful WeatherAction trial forecasts of extreme events this year including the USA Mid- West blizzards in March and the New York heatwave 18-20 July.

Quoted active dates below (as posted on www.lowefo.com) are most probable short periods for events. The periods in between [or specified 'Quiet' periods have low likelihood of events/storm formation (TS level)].

REF 6A from: <http://blogs.justfred.ca/news/2008/09/07/media-release-flood-warning-issued-by-emo/>

Media Release: Flood Warning Issued by EMO

Posted by justfred.ca on September 7th, 2008

2:03 PM Sunday 7 September 2008 **The following flash flood** <http://blogs.justfred.ca/wp-content/uploads/2008/09/nbimage.png>"><http://blogs.justfred.ca/wp-content/uploads/2008/09/nbimage-300x190.png> alt="Flood Warning issued for Southern New Brunswick" width="300" height="190" /> warning is issued by the New Brunswick Emergency Measures Organization. Environment Canada advises that rainfall of up to 90 mm (three inches) has fallen and local amounts of over 130 mm (four inches) are possible. Rainfall in these amounts can result in rapid water level increases in streams and rivers and localized flash flooding. Power outages are also possible. People living or working along watercourses or the southern and eastern coastlines of the province should take steps to protect their property and remain on alert until the storm has passed and water levels have returned to normal. The following flash flood warning is issued by the New Brunswick Emergency Measures Organization. Environment Canada advises that rainfall of up to 90 mm (three inches) has fallen and local amounts of over 130 mm (four inches) are possible. Rainfall in these amounts can result in rapid water level increases in streams and rivers and localized flash flooding. Power outages are also possible. People living or working along watercourses or the southern and eastern coastlines of the province should take steps to protect their property and remain on alert until the storm has passed and water levels have returned to normal.

The weather period timings given in forecast details for most forecasts 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 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].

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