



RTQ Forecast Periods - accurate to -1 day. Gen success rate - 85%
 Red Warnings, Thunder/Tornado Risk & Major Earthquake/Volcanism Trial Risk
 • Now with new quake-volcano trial forecast clarifications

Actual Weather Events may be added to 'World Extreme events' in separate pdfs
 Results and news see www.weatheraction.com Comments and <http://climaterealist.com/index.php?id=9718>

JULY 2013 - JUL 1 to JUL 31 for R; same* for QV

R data below first published 15 June in B+I 45d forecast for JULY. THIS document circulated July 7 [apologies for delay]
 *Timings of **QV (TRIAL)** periods now put at same as **R** periods (see below), but levels may differ, under procedures **SLAT8C** for **R** periods and this revised procedure, **SLAT8C(Qa)**, for **QV** periods (in italics if before 7th).

RESULTS for period in last QV forecast June 3-30 was 5 of 7 **M6+** quakes occurred in **QV4 or QV5** periods which were 13 of the 28 days; giving SR (Success Ratio) = (Hit rate)/(period fraction) = (5/7)/(13/28) = 1.5 (bigger than 1 = better than luck). Keeping QV periods to be same as corresponding R periods would have given probably higher. Although numbers are small and despite previous appearances it may be the timings of R and QV are not really different so for this **SLAT8C(Qa)** procedure we keep R and QV timings the same and vary only R vs QV intensity. We will review results to see if timings would consistently improve by a relative shift.

Red Warning periods, R, – are standardized **R1 to R5** (most extreme effect) in WeatherAction Solar Lunar Action Technique. They indicate Solar-Lunar drivers of thunderstorm and related extreme events around the world. Extreme weather event risk periods such as thunder/tornado (espec USA) development & potential Tropical Storm Formation and development periods are consequences of these drivers and are also periods in which standard meteorology models will notably underestimate strength of deluges, thunder, snow etc in forecasts from a day or so ahead. In these periods typically standard meteorology forecast (smf) estimates of rain/snow from a day or so ahead need to be doubled (or more for R5). Dates are UTC for estimation although there are uncertainties. FORECAST MAPS & detailed forecasts with corresponding specific likely weather events are issued for various parts of the world. Lesser extreme ('Extra Activity') and 'Quiet periods' and likely consequent weather scenarios are stated therein.

Major Earthquake – Volcano Trial Risk Periods, QV, are in similar 1-5 categories as R periods, but need not be the same as R. QV Periods are largely similar to Red warning weather periods and are not specific to any particular Earthquake prone region or location. The largest Quake/volcano activity in term of intensity and prevalence (av per day) is expected in **QV5** and **QV4** periods and should include more **M6+** quakes. QV3 may include M6+ and QV1-2 are less likely to have such but should have some extra activity. (Nb qv notation discontinued). Some preferred earth hemispheres for major quakes are also given. **M6.0 & above earthquakes are Red in US Geological Survey** <http://earthquake.usgs.gov/earthquakes/eqinthenews/> M6.0 is a convention. Other levels (eg M5.7+, M6.5+, M7+) may help. Results best obtained via <http://earthquake.usgs.gov/earthquakes/eqarchives/epic/>

• (NH) sudden polar LOWER stratospheric warmings are a winter phenomena and not listed in other months.

NOTE for use of 0.5 dates if applied, eg 14.5 means noon utc 14th.

Date JULY 2013	Solar Lunar Factor Red Weather Warning	Extreme Weather Events		Date JULY 2013	Major Earthquake + Volcano Risk trial Risk	
		Thunder	Tornado		QV4, QV5 Tested by M6+. In R5 M6.5+ likelihood increases. QV trial forecasts under SLAT8CQVa	
1-2 July	R2	Low/med	Low/med	1-2 July	QV4	Major Earthquakes-Volcano M 6.0+ likely . QV Earth-facing Active regions &/or Coronal holes near central longitude solar disc likely.
3-4 July	R3	Med	Med	3-4 July	QV3	Some extra Earthquakes-Volcano M 5.7+ likely QV Earth-facing Active regions &/or Coronal holes near central longitude solar disc quite likely but not major.
7-9 July	R5	Top High	Top High	7-9 July	QV5	V Major Earthquakes - Volcano M 6.5+ extra risk Major Earth-facing Coronal holes &/or Active regions near central longitude solar disc very likely.
12-15 July	R2	Low/Med	Low/Med	12-15 July	QV4	Major Earthquakes - Volcano M 6.0+ likely Earth-facing Active regions &/or Coronal holes near central longitude solar disc likely.
16-18 July	R3	Med	Med	16-18 July	QV3	Some extra Quakes – Volcano M 5.7+ extra risk Earth-facing Coronal holes &/or Active regions near central longitude solar disc likely.
21-23 July	R4	High	High	21-23 July	QV5	V Major Earthquakes - Volcano M 6.5+ extra risk Major Earth-facing Coronal holes &/or Active regions near central longitude solar disc likely.
27-31 July	R2 x 2, 27-29 & 30-31	Low/Med	Low/Med	27-31 July	QV2	Some but Not much significant extra activity
(R5+R4) Fraction = 6/31 = 19% (1-31 Jul)				(QV5+QV4) Fraction = 12/31 = 39% (1-31 Jul)		

General Red Warning (R) and Quake –Volcano (QV) Solar and Geomagnetic Associated effects.

All periods, especially **R4, R5**, are likely to be preceded by / include some or most of major or extra solar flare activity, Coronal holes, proton bursts, fast solar wind, increased ionospheric activity, geomagnetic storms, aurora, noctilucent clouds / sprites.

News and commentary of Weather & Earthquake Events is sent out via twitter @Piers_Corbyn - http://twitter.com/Piers_Corbyn and <http://www.facebook.com/profile.php?id=100001281948141&sk=wall>, www.WeatherAction.com and <http://climaterealist.com/index.php>