

LATE WEEK WEATHER TRENDS FOR THE NORTHERN MIDDLE ATLANTIC, NEW YORK & NEW ENGLAND

FAX-ALERT WEATHER SERVICE, LLC

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3 AM



COLD

THE LARGE-SCALE PATTERN JUST KEEPS GETTING EASIER AND EASIER TO DESCRIBE...

TREMENDOUS WESTWARD EXPANSION OF THE EASTERN COLD PATTERN MEANS THE ENTIRE EASTERN HALF OF THE COUNTRY WILL AVERAGE COLDER THAN NORMAL TO OCCASIONALLY MUCH COLDER THAN NORMAL (HARSH COLD PERIODS) FOR THE REMAINDER OF THE MONTH!!!

THE CORE OF THE ABSOLUTELY COLDEST ANOMALIES WILL OSCILLATE BACK AND FORTH FROM NEW ENGLAND INTO THE MIDWEST OVER THE NEXT 2 WEEKS

THE FREQUENCY OF POWERFUL STORM EVENTS IMPACTING THE NORTHEAST PORTION OF THE COUNTRY, IN PARTICULAR NEW ENGLAND, GROWS MORE WORRISOME BY THE DAY... TRULY HISTORIC WINTER STORM PATTERN SHOWS NO SIGNS OF LETTING UP OVER THE NEXT WEEK TO 10 DAYS...

DANGEROUS BLIZZARD-LIKE EVENT TO RAVAGE PORTIONS OF EASTERN NEW ENGLAND SATURDAY NIGHT WELL INTO SUNDAY WITH ANOTHER ROUND OF HEAVY SNOW AND NEAR HURRICANE FORCE WINDS...

WHILE SNOWFALL AMOUNTS WILL FALL OFF SHARPLY WESTWARD ACROSS INTERIOR NEW ENGLAND, EASTERN NY AND EASTERN PA/NJ, DANGEROUSLY COLD WIND CHILL VALUES AND DAMAGING WIND GUSTS WILL PRODUCE A LARGE SWATH OF HIGH IMPACT CONDITIONS WITH POWER OUTAGES ON THE TABLE, AS WELL...

WHILE I DO NOT HAVE LOTS OF TIME TODAY TO DEVOTE TO IT, A NEW STORM WILL THREATEN A LARGE AREA FROM THE SOUTHERN MIDDLE ATLANTIC REGION ON NORTHWARD INTO EASTERN NY AND NEW ENGLAND WITH MORE HEAVY SNOW AND POTENTIALLY SIGNIFICANT ICE ACCUMULATIONS TUESDAY INTO WEDNESDAY!!!

FEBRUARY TEMPERATURE TRENDS

The large scale North American jet stream pattern is being very kind to me right now. Given the ongoing major storm activity across portions of the Northeast, I do not have the time to devote to tedious and uncertain temperature regime. Well, the large-scale pattern has made my work load a whole lot easier. There has been high confidence for some time now that the Northeast sector of the country would remain locked into a solidly colder than normal pattern. Well not only is that proving to be wildly correct, the

fact that the cold pattern is now in the process of completely overwhelming the central U.S., means there is no worry about getting too close to the edge of the cold pattern.

This is one impressive cold pattern for the eastern half of the country and will likely be able to maintain itself with only minor changes right into or through the late month period, if not early March.

So in summary, a very cold pattern is now in control of the eastern half of the country and it is not going anywhere soon. Within this continuing and expanding cold pattern there will be some occasional intrusions of harsh cold. I expect the intrusions of the harsh cold to oscillate back and forth from the Midwest / Great Lakes region into the New England region over the next 2 weeks. The bottom line is we will see the area from the central U.S. to the Gulf States northward into the Great Lakes region on eastward across the Northeast sector and southward into the Southeast portion of the country all average colder than normal over the next 14 days!

DISRUPTIVE WEATHER OUTLOOK

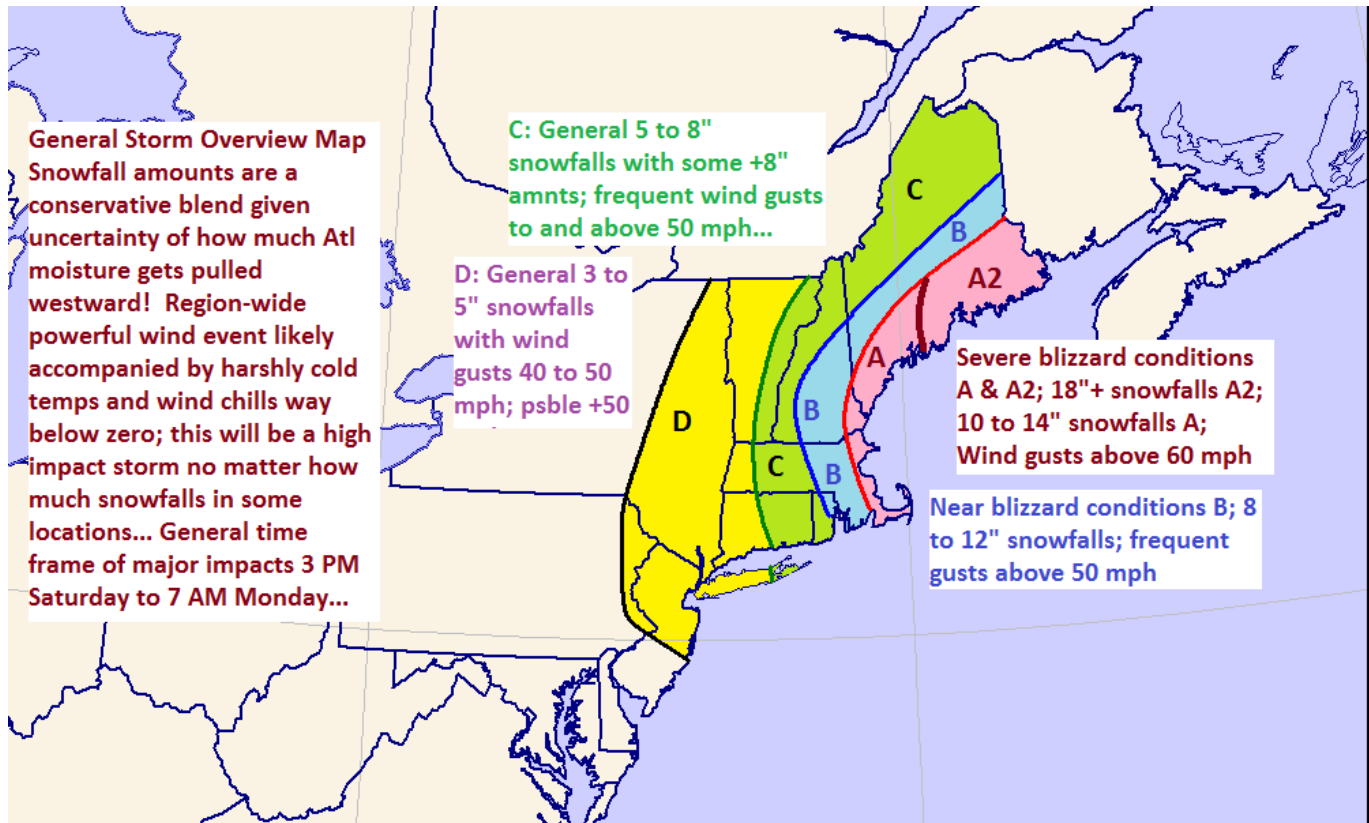
OVERVIEW: I do not have time to get overly specific about the next Tuesday / Wednesday storm, but suffice it to say a large area of moderate to heavy snow and significant icing is likely to develop across portions of the lower Ohio Valley Tuesday and then spread northeastward across much of the Middle Atlantic region including large portions of VA/DE/MD, central and eastern PA, NJ, central and eastern NY and most of New England by Wednesday. This will be another highly disruptive event but unlike several previous eastern storms, this will not be confined to eastern NY and New England.

The short-term issue is quite concerning. An explosive storm development will occur just south of Southern New England late Saturday night and early Sunday. **This storm will have the potential to produce severe blizzard conditions along portions of the eastern Massachusetts coastal plain, including the Cape Cod area, coastal New Hampshire and coastal Maine.** Not only will snowfalls well in excess of a foot occur across much of eastern Massachusetts, coastal NH and southern Maine, wind gusts may reach or exceed 70 mph Sunday; in fact, hurricane force wind gusts are possible with the Cape Cod area the most at risk. **The combination of heavy snow, tremendous snow drifting issues, harshly cold air temperatures, dangerous wind chills and power outage producing wind gusts means this storm could produce what I would classify as severe blizzard conditions that in some instances could be life-threatening across the areas listed above.**

Westward into interior eastern Massachusetts area, general west of the I-495 corridor to the I-90 corridor, eastern CT, eastern LI, much of RI, interior southern and central NH and interior southern Maine, moderate to heavy snow totals are likely and while winds will not be as powerful as they will be on the coastal plain, they will still be powerful enough to produce at least scattered areas of tree and power line damage, as well as serious drifting along with dangerous wind chill levels.

Once into western Massachusetts, central and western CT, much of VT, northern NH, far northern Maine, eastern NY and eastern PA/NJ snow amounts are likely to drop into the light to moderate category, **but once again even light snow amounts being blown around**

by 50+ mph wind gusts will likely produce serious blowing and drifting of not only the newly fallen snow, but snow that has been on the ground and remains loose. The wind issue continues to impress me and while these areas are not likely to see near hurricane wind gusts as we will see near the eastern New England coastal plain, I would not be surprised by some 60 mph gusts, which means at least a modest power loss concern.



STORM HIGHLIGHTS

SNOW POTENTIAL

There are several factors in play that make for a less than confident snow prediction with this system. While the storm will be intensifying rapidly, it will also be moving steadily eastward and there is quite a bit of uncertainty about how much moisture can be thrown westward back into eastern NY, eastern PA/NJ, and VT, central & western CT, western Massachusetts, northern NH and northern Maine. On the storm map, I have tried to show the expected **lowest** snowfall amount, not the **highest possible totals**. It is quite likely that there will be some sneaky, not yet known, high snowfall zones that will develop as meso-scale banding features develop to the west of the storm center. **I am not sure where to place them at this time; it is possible one such band could form as far back as the NYC and western CT/western MA areas?**

Heavy snow totals are likely across parts of eastern CT, RI, eastern Massachusetts southern and eastern NH and southern Maine. As much as the storm structure and moisture inflow appears to support widespread 8 to 14 and + 14 inch zones, the strong winds and bitter cold temps produce very small flakes or shards of snowflake particles that struggle to produce as much snow depth as one might expect. Once again on the

snowfall map, I have given what I expect to be the low number bottom number without trying to predict the upper range given the uncertainties noted above. **Portions of Downeast Maine are likely to the snow jackpot again and it is entirely possible we will see widespread amounts over 20 inches across Downeast Maine by Monday morning.**

I have allowed snow totals to fall off pretty dramatically as you head west, but as stated above; there is the potential for some higher totals than shown give the meso-scale banding potential.

POWERFUL, POTENTIALLY DAMAGING WINDS:

Wind gusts to hurricane force are possible across portions of coastal Massachusetts, coastal NH and coastal Maine; the Cape Cod area is the primarily target zone for 75+ mph wind gusts. Most areas listed here will see wind gusts above 60 mph...

Westward across eastern NY, CT, VT, western and central Massachusetts, CT, RI, western and northern NH, interior southern Maine, wind gusts in the 45 to 60 mph likely with some +60 mph gusts quite possible.

Across eastern PA/NJ on northward into central NY, wind gusts will likely stay under 45 mph.

POWER OUTAGES

The potential for widespread power outages is a real concern across the primary high wind zone, eastern Massachusetts, coastal NH and coastal Maine...

The threat of at least scattered wind related power outages will be high westward across most of interior Massachusetts, CT, RI, far eastern NY (along the New England border region) much of central and southern VT, interior southern and central NH and interior southern Maine. If wind gust to 60 mph become common, fair widespread power disruptions will be likely.

DANGEROUS COLD

This will be an exceptionally cold storm with pure unaltered arctic air plunging southward into the storm's circulation. This will lead to truly dangerous wind chill values with the threat of frost bite and/or hypothermia a serious concern for anyone who has to be outside for extended periods from late Saturday night on through most of Sunday. If traveling within the primary blizzard zone, you must make sure you have appropriate clothing on in case you were become stuck or stranded and had to walk to safety!

Even westward across the remainder of New England, eastern NY and eastern PA/NJ wind chill values will also run into the dangerous levels Sunday and once again caution is urged if extended periods of outdoor time is necessary.

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