



Major Winter Storm Approaching

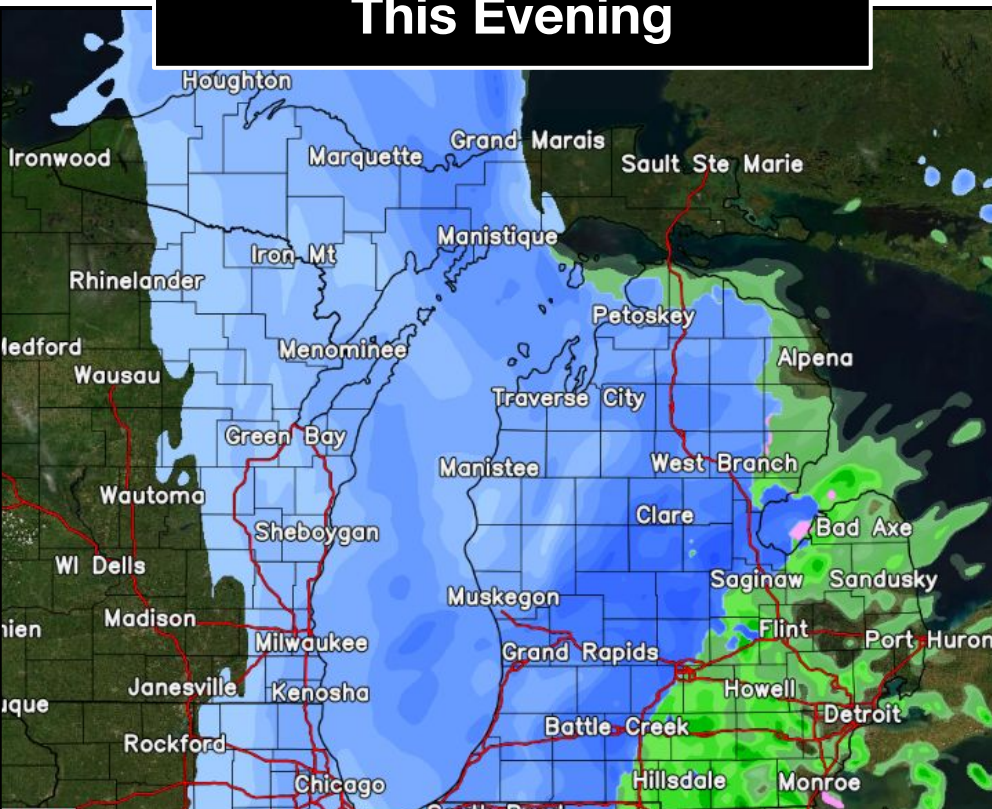
December 22, 2022
1:00 PM

Significant Impacts Are Anticipated - December 22-24, 2022

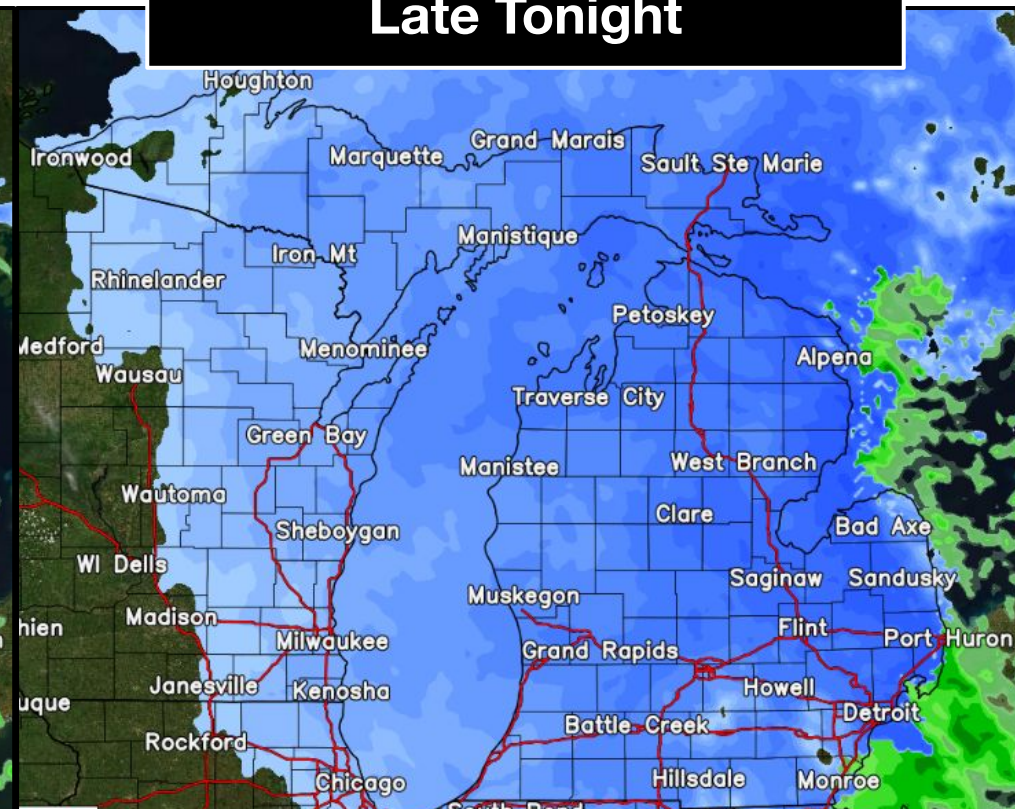
RADAR FORECAST SHOWING PRECIPITATION TYPE & TIMING



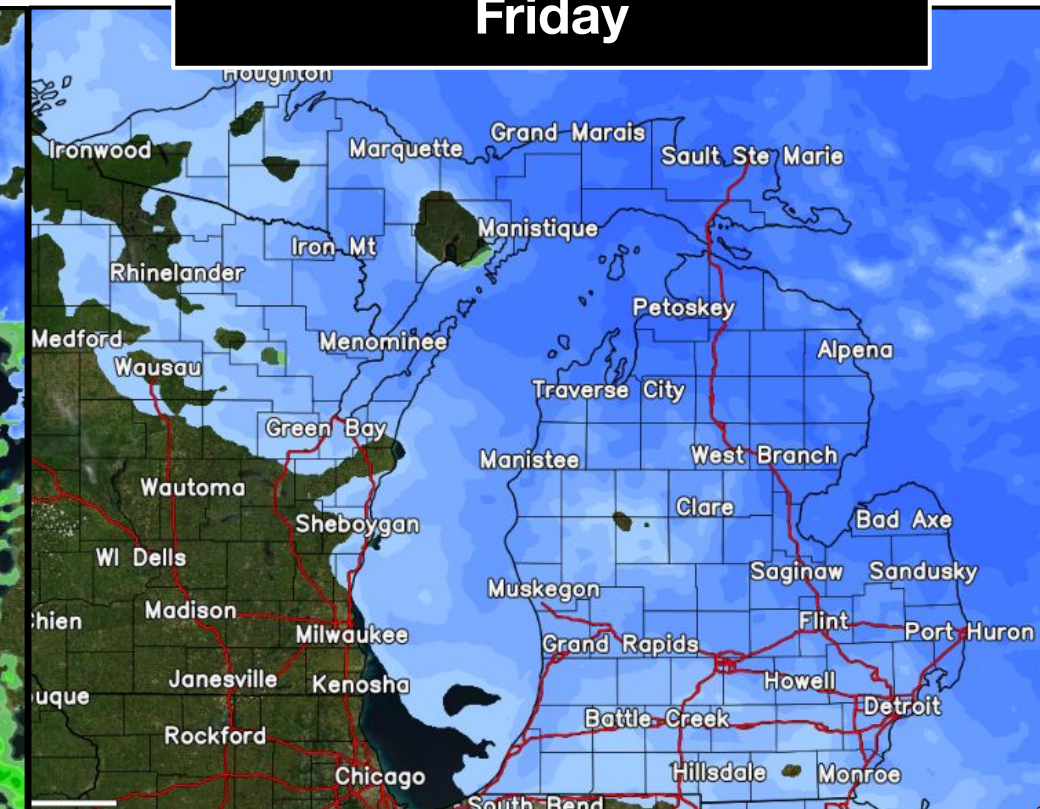
This Evening



Late Tonight



Friday



- Increased risk for “flash freeze” across SE Lower MI: Rainwater will freeze in place tonight
- Snow + wind gusts over 40 mph will lead to blizzard conditions for many areas
- Areas downwind of Lakes Superior and Michigan may not stop snowing until Christmas Day



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National Weather Service
Grand Rapids, MI



What Changed Since Yesterday?

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Winter Storm: December 22-24, 2022

Key Forecast Differences From What Was Briefed Yesterday

- Flash freeze expected to be more impactful across SE Lower MI late tonight (water quickly freezing)
- Increased snow amounts across northern Lower MI
- Similar impacts to 2011 blizzard now more focused in areas with a Blizzard Warning

Key Items That Haven't Changed

- Strong wind gusts of 40-50 mph inland and up to 60 mph along the lakeshore regions
- Power outages continue to be possible
- Periods of heavy snow and blizzard conditions making for dangerous and treacherous travel
- Continued risk for deep snow drifts developing in open areas
- Plunging temperatures, beginning later today, and lasting into early next week



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Multiple Hazards from the Storm

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December 22-24, 2022

Precipitation

- **Upper Peninsula:** Lake Effect Snow Tonight Through Sunday Morning
- **Northern Lower Peninsula:** Snow Today through Friday, Lake Effect Snow Saturday into Sunday AM
- **Southern Lower Peninsula**
 - ◆ **SE Michigan:** Rain this evening with a flash freeze tonight. Snow late tonight into Saturday.
 - ◆ **SW Michigan:** Rain/snow mix this evening quickly turns to snow tonight. Lake Effect Friday/Saturday.

Winds

- **Statewide:** 40 mph or higher Friday, with > 50 mph gusts across SE Lower MI. Saturday 30-40 mph.
- **Blowing Snow:** Snow + Strong Winds = Dangerous travel. Some travel may be impossible in certain areas.
- **Near Lake Superior & Lake Michigan:** Occasional gusts of 50-60 mph Friday, lower on Saturday

Cold

- **Temperatures:** Teens for Highs Friday through Sunday, Low Temperatures in the Single Digits
- **Wind Chills:** Near and Below Zero Friday into Sunday

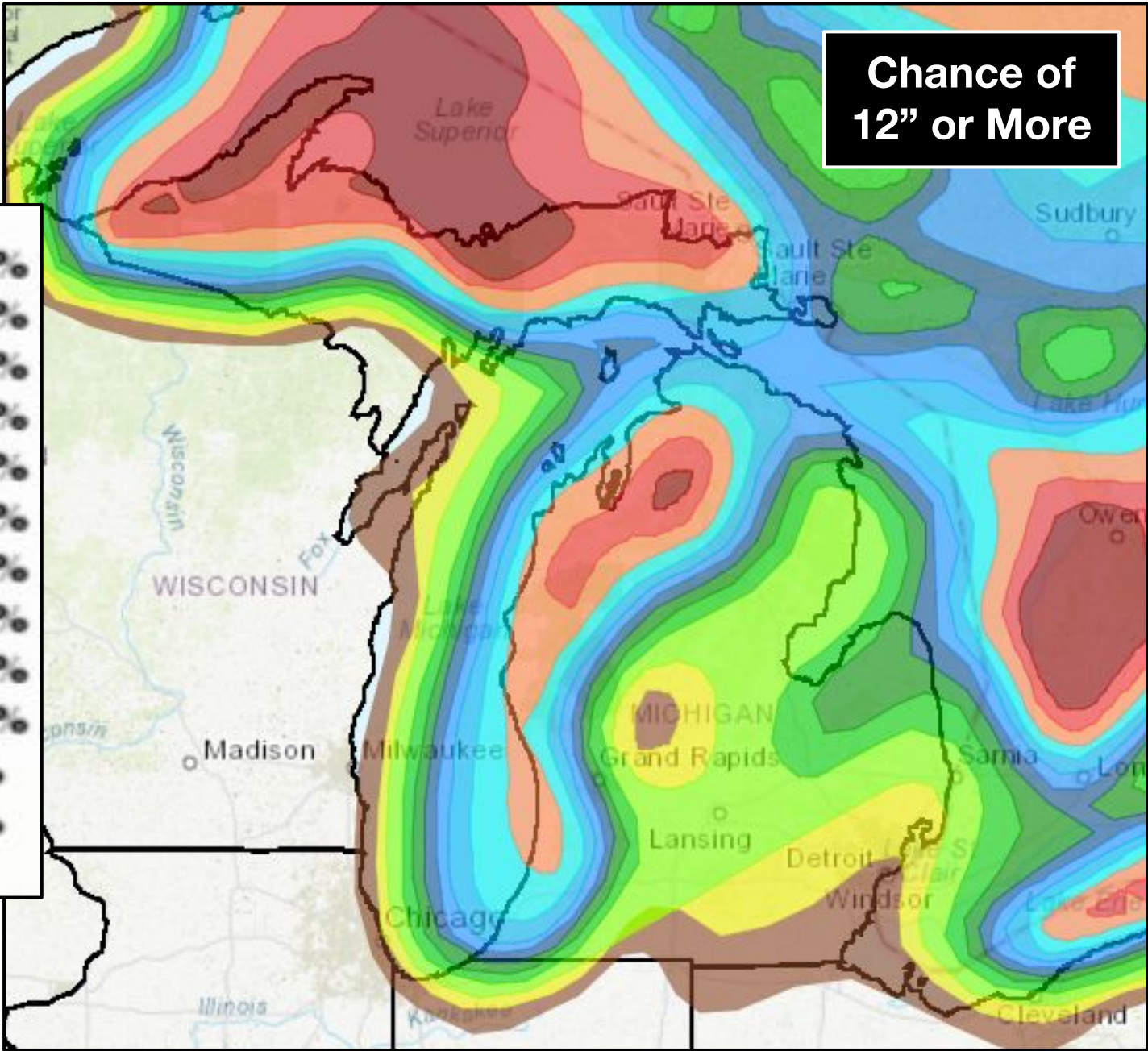
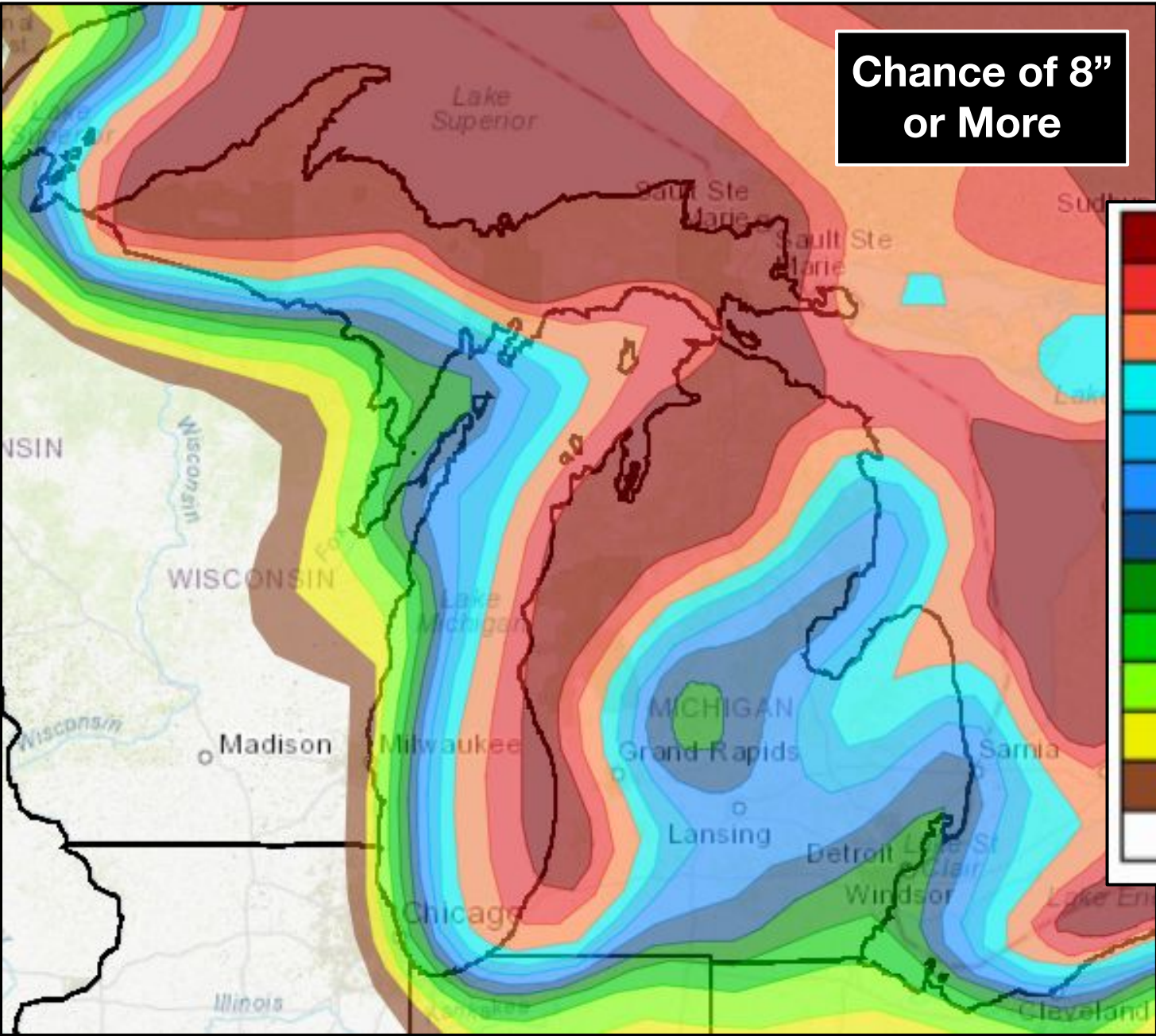




Snowfall Probabilities

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Now Through Christmas Eve





Snowfall Forecast

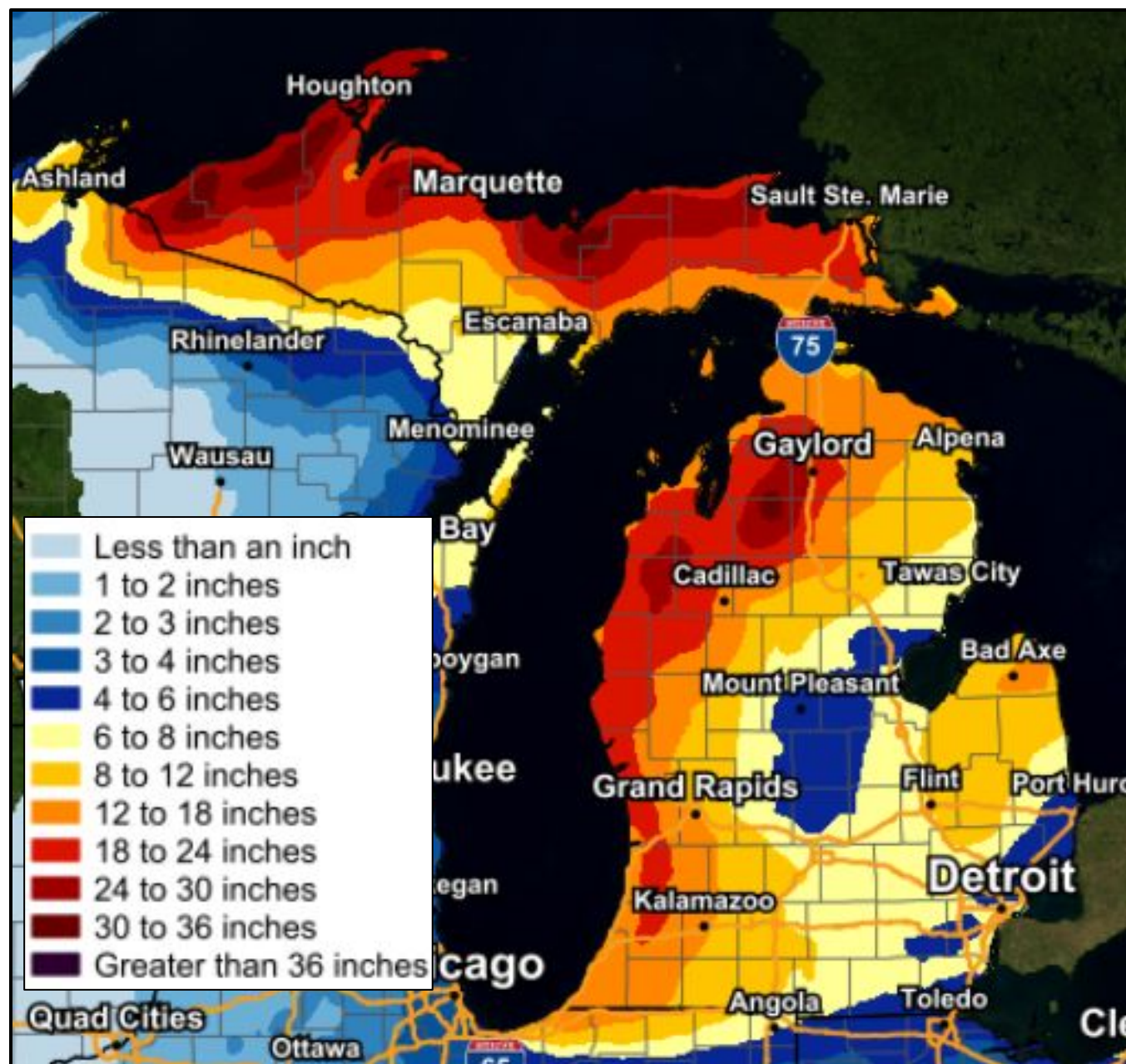
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Now Through Christmas Eve

Key Takeaways

- Impactful snow + dangerous travel statewide
- Lowest across mid Michigan/south central Lower
- Highest near coasts + Upper Peninsula
- Major metro areas:
 - ◆ **Detroit:** 3"-6" with blowing snow
 - ◆ **Grand Rapids:** 10"-16" with blizzard conditions
 - ◆ **Lansing:** 6"-8" with blowing snow
 - ◆ **Kalamazoo:** 10"-16" with blizzard conditions
- 12"-24" expected for most of our lakeshore region
- Actual snowfall will be difficult to measure!

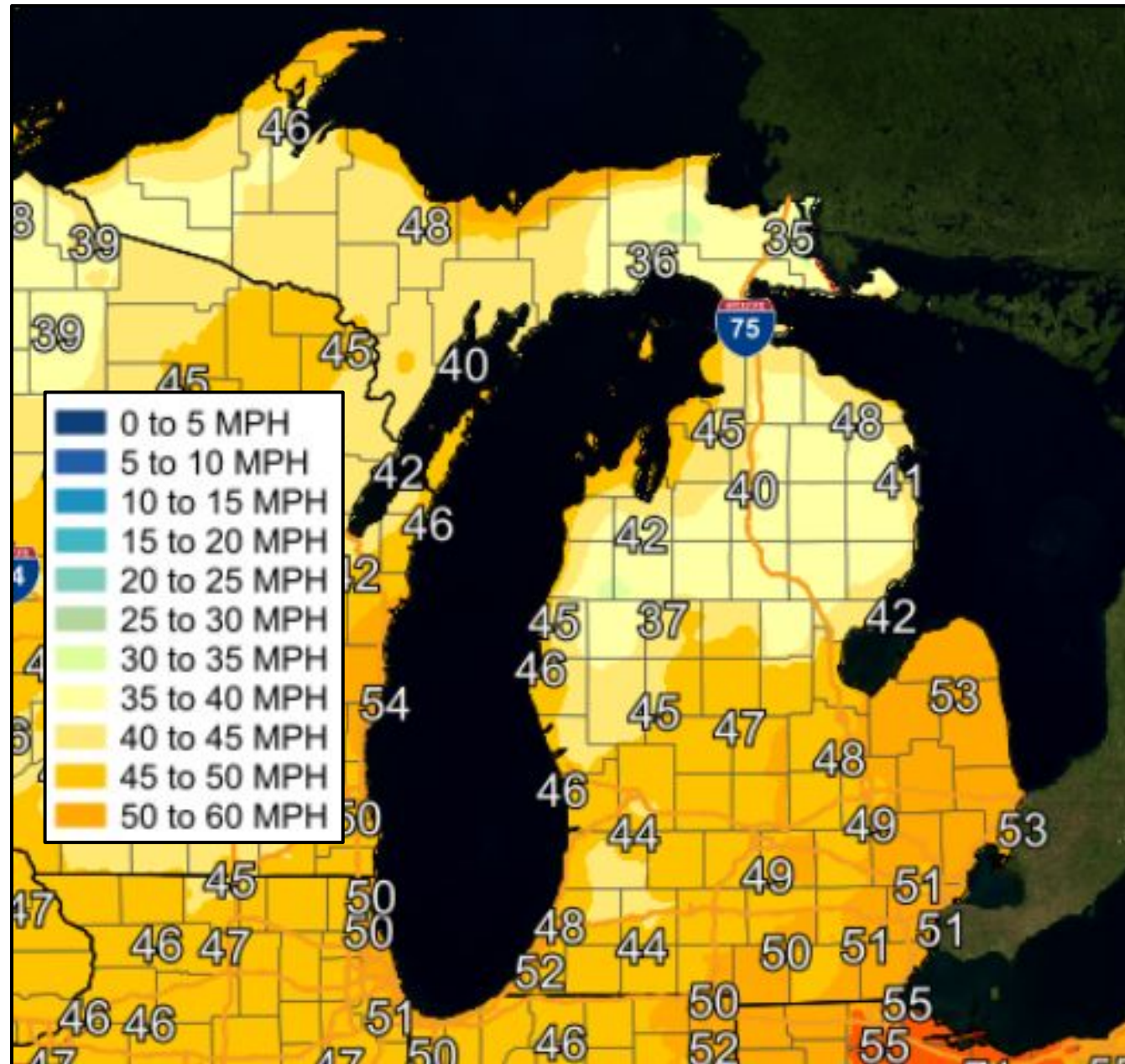




Maximum Wind Gust Forecast

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The Highest Winds Will Occur on Friday...But Gusty Conditions Continue Saturday



Key Takeaways

- Gusts > 40 mph expected statewide Friday
- Gusts > 50 mph possible SE Lower MI + coastlines
- Worst of the winds expected all day Friday
- Saturday gusts still 30-40 mph
- Some power outages are likely to occur





Dangerous Travel Impacts Expected

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December 22-24, 2022

Recommended that Travel be Completed As Soon As Possible Thursday

Dangerous Travel Conditions Statewide Friday into Saturday

- Travel may not even be possible particularly near the coasts of Lakes Superior and Michigan
- Snow drifts may have a particularly high impact on these major roads:
 - ◆ US 41, M-28, US 31, US 131, I-196 from Grand Rapids westward, and I-94 near/west of Kalamazoo
- If travel is essential, we recommend packing emergency items to keep you safe
- Realize that if you are stranded, help may not come right away

Recovery/Return to Normal - Could be Slower than Typical

- Depends a lot on how much snow, how much drifting, when winds subside and how cold impacts recovery
- Weather overall improves Sunday, though below freezing temperatures settle in for much of the week





Weather After the Storm

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Monday, December 26, 2022 through Friday, December 30, 2022

Below Freezing Temperatures Monday until at least Wednesday

- Highs Monday and Tuesday in the teens and 20s, Warming into upper 20s to low 30s Wednesday
- Lows Monday through Wednesday in the single digits and teens

Additional Significant Snow or Strong Winds are Not Expected

- Wind Chills should be near or slightly below zero through Tuesday
- Some light accumulations of snow possible, widespread impacts not expected



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Upcoming Briefings

December 22, 2022
1:00 PM

Scheduled Briefings led by NWS Grand Rapids

- Friday, December 23, 2022 @ 100 pm EST
- No Webinars for this Storm After Friday, December 23

- Email Announcement to be sent Friday morning
- Briefing link will be the same link as today's briefing
- Re-registration may be needed
- Please allow a few minutes before 100 pm to get logged in
- If possible, please limit dial-ins to one per jurisdiction

Slide Deck available at: www.weather.gov/grr/webinars

**Please Check With Your Local NWS
Office for Localized Forecast Updates
and for Any Scheduled Briefings**

