



Lake Effect Snow and Return of High Winds

January 11, 2024
6:10 AM

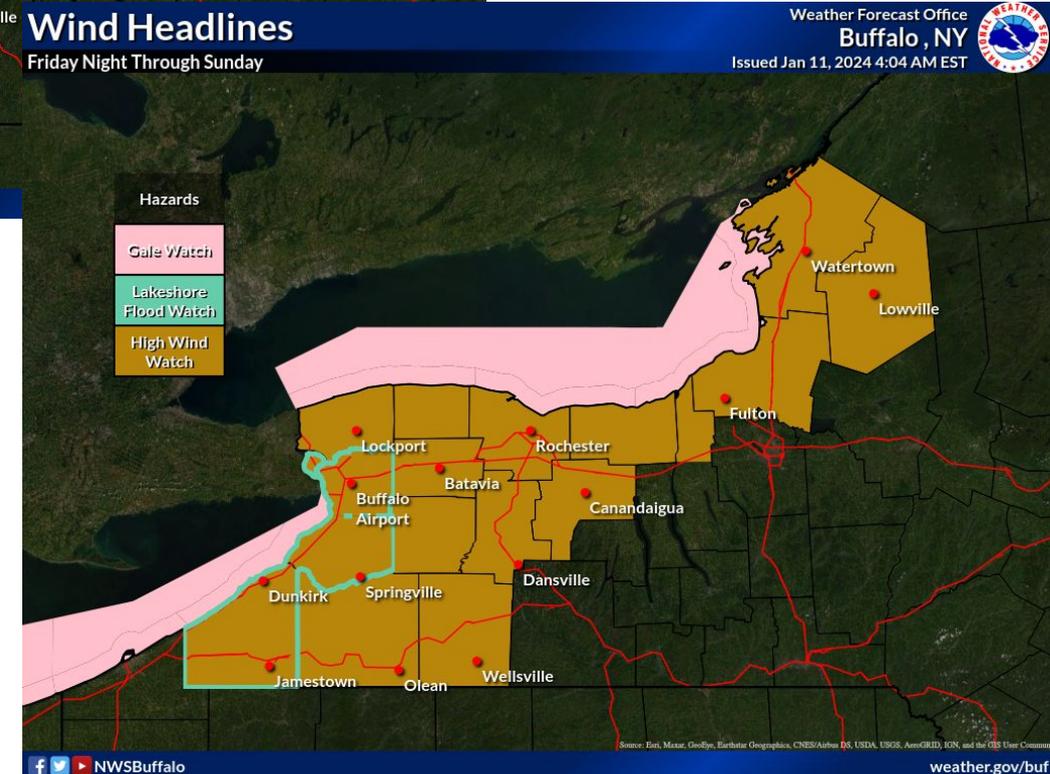
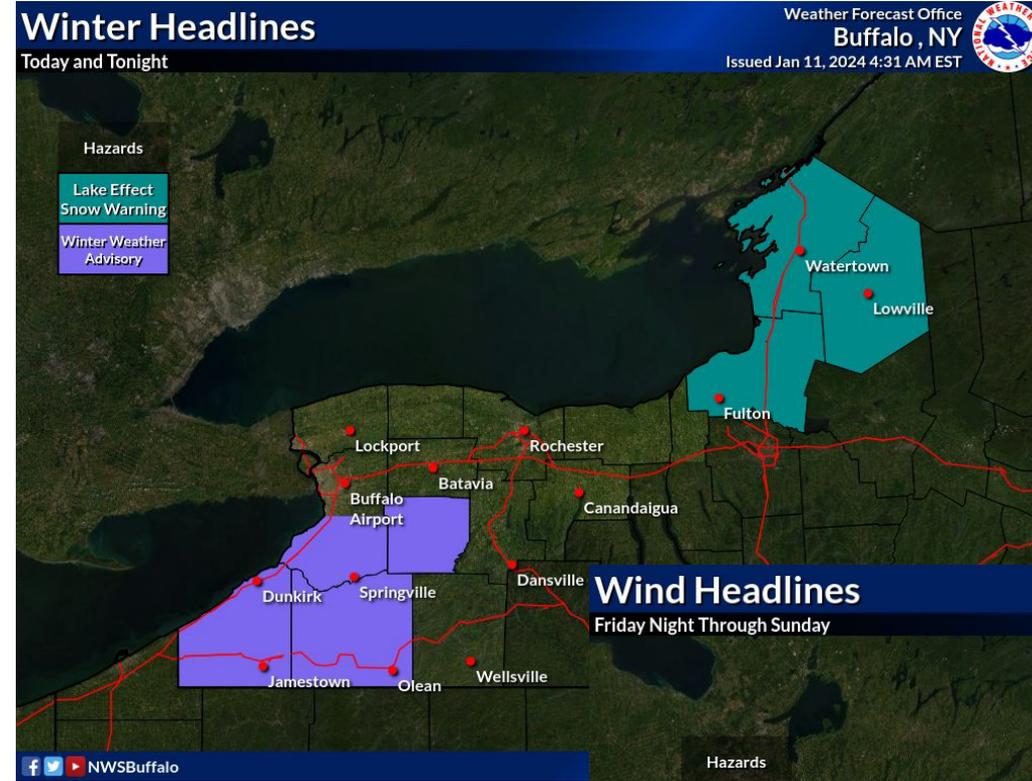
For Western and North Central New York

Decision Support Briefing #2

→ As of 6:10 AM, Thursday January 11, 2024

NEW Important Updates

- **Winter Weather Advisory** extended through 10 PM this evening for the western Southern Tier
- **Lake Effect Snow Warning** remains in effect through 1 AM Friday for the Tug Hill
- **High Wind Watch** in effect 7 PM Friday through 4 AM Sunday for WNY
- **High Wind Watch** in effect 10 PM Friday through 4 AM Sunday for north central NY
- **Lake Shore Flood Watch** in effect 7 AM Saturday through 4 AM Sunday for Erie and Chautauqua counties
- **Gale Watch** in effect 7 PM Friday through 1 PM Sunday for Lake Erie
- **Gale Watch** in effect 7 AM Saturday through 1 PM Sunday for Lake Ontario





Main Points

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Hazard	Impacts	Location	Timing
Snow 	Snow will cause hazardous driving conditions. Slow down and leave extra time to reach your destination.	Western Southern Tier	This morning through 7 PM Thursday
Lake Effect Snow 	Snow will accumulate rapidly where bands persist. Visibility will be drastically reduced with near whiteout conditions.	Tug Hill	This morning through 1 AM Friday
Strong Winds 	Damage to trees and property possible. Strong winds will make driving difficult for high-profile vehicles.	Western New York and North Central New York	Friday Night through Saturday Night
Lakeshore Flooding 	Strong onshore winds and significant wave action will produce lakeshore flooding and erosion	Chautauqua and Erie counties	Saturday and Saturday Night
Marine Winds 	Large waves and hazardous boating conditions	Lake Erie	Friday Night through Sunday
Marine Winds 	Large waves and hazardous boating conditions	Lake Ontario	Saturday through Sunday



Timing of Greatest Impacts

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	Thu, Jan 11 - 7 AM	Thu, Jan 11 - 7 PM	Fri, Jan 12 - 7 AM	Fri, Jan 12 - 7 PM	Sat, Jan 13 - 7 AM	Sat, Jan 13 - 7 PM	Sun, Jan 14 - 7 AM	Sun, Jan 14 - 7 PM
Snow	Western Southern Tier/ Buffalo Metro	Western Southern Tier - Ending at 10 PM						
Lake Effect Snow	Tug Hill	Tug Hill	Tug Hill - Ending 1 AM Friday			WNY and Tug Hill	WNY and Tug Hill	WNY and Tug Hill
Strong Winds				Western Southern Tier and northern side of Tug Hill	WNY	WNY		
Lakeshore Flooding					Erie and Chautauqua counties	Erie and Chautauqua counties		
Gales				Lake Erie	Lake Erie and Lake Ontario	Lake Erie and Lake Ontario	Lake Erie and Lake Ontario	Lake Erie and Lake Ontario - ending Sunday afternoon

This outlook depicts timing and magnitude of potential impacts to local travel and infrastructure from snowfall rates and/or amounts, blowing snow, ice, cold temperatures, high winds and waves.

Risk Levels

No/None

Limited

Elevated

Significant

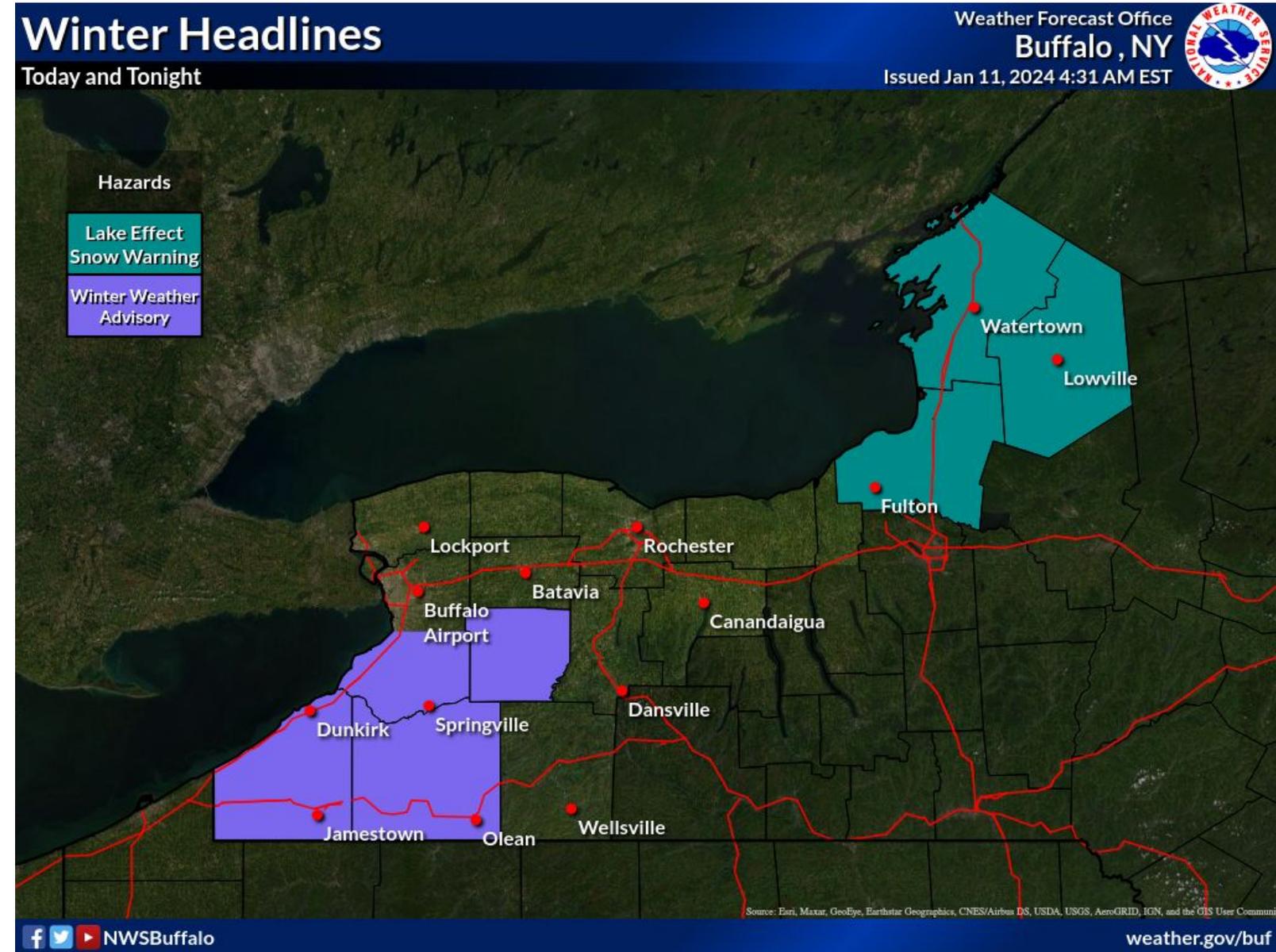
Extreme





Winter Weather Headlines

January 11, 2024
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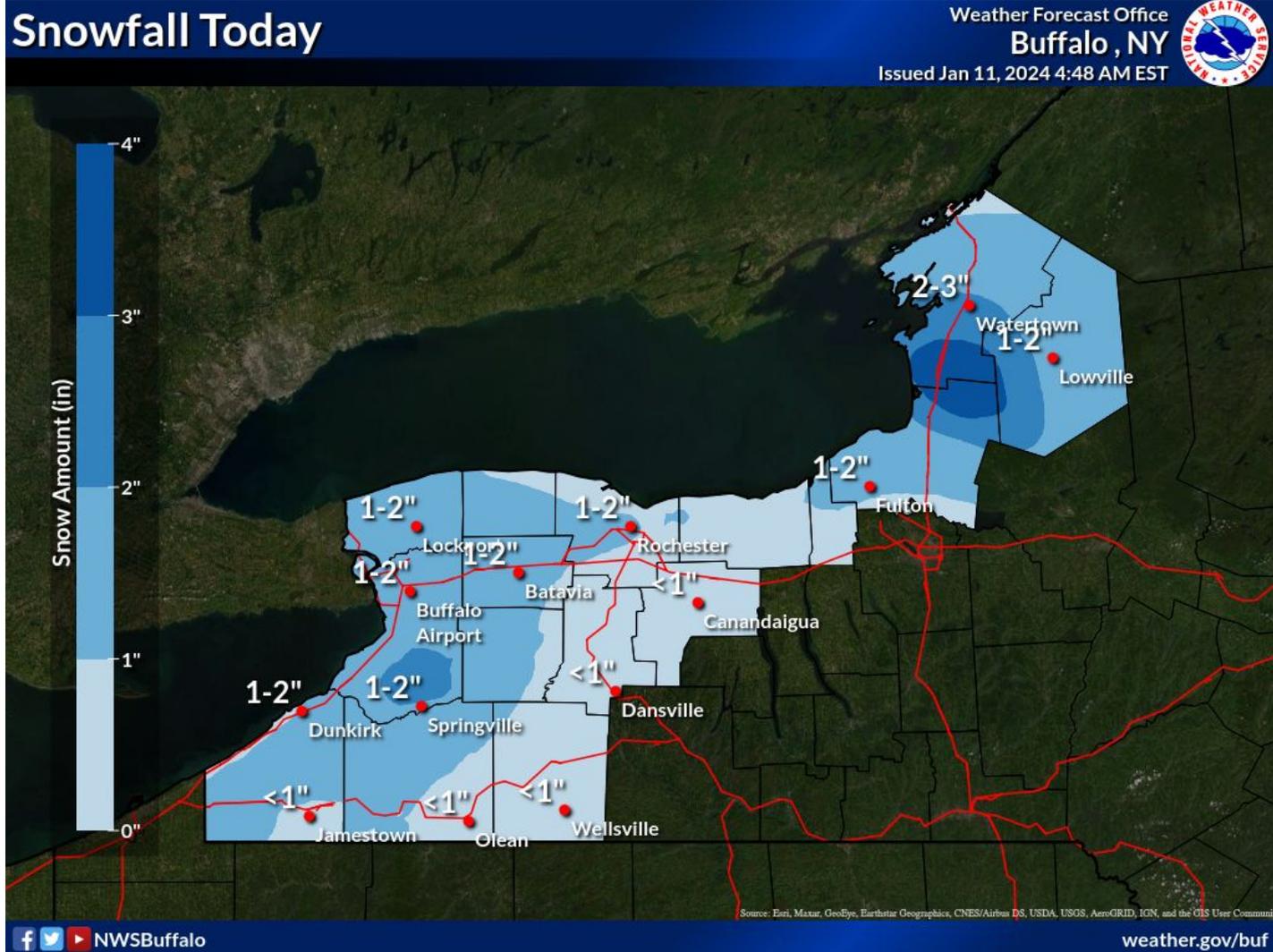
- ❑ **Winter Weather Advisory** in effect for the Western Southern Tier through 10 PM this evening
- ❑ **Lake Effect Snow Warning** in effect for the Tug Hill through 1 AM Friday
- ❑ **Expect limited impacts** due to the longevity of the event





Lake Effect Snow Today

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- ❑ Lake effect snow off of Lake Erie this morning will spread across the Buffalo Metro, this band will shift north throughout the rest of the morning
- ❑ The Lake Erie band will then shift south across the Buffalo Metro and back into the advisory area this afternoon
- ❑ Lake effect snow off of Lake Ontario this morning will remain stationary this morning across the Tug Hill
- ❑ The Lake Ontario band will shift north into the Watertown metro area by the evening commute
- ❑ Travel will be impacted, otherwise impacts will be limited



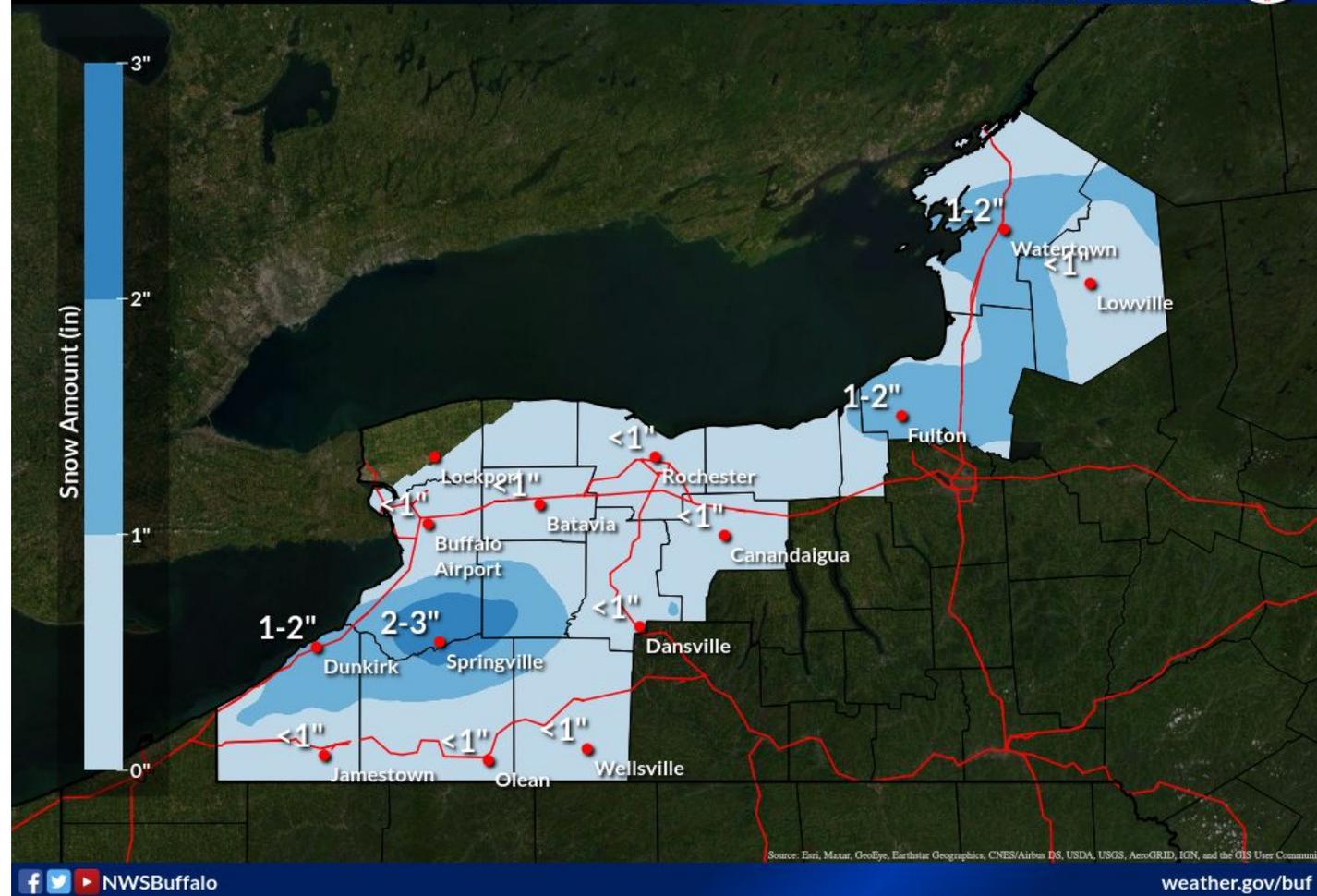


Lake Effect Snow Tonight

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Snowfall Tonight

Weather Forecast Office
Buffalo, NY
Issued Jan 11, 2024 4:49 AM EST



- ❑ Lake Erie snow band will drift further south into the western Southern Tier this evening mainly impacting the Boston Hills
- ❑ Lake Ontario snow band will fizzle out early tonight and then regenerate south of Lake Ontario across Oswego county by midnight
- ❑ Both bands will then peter out throughout the rest of the night

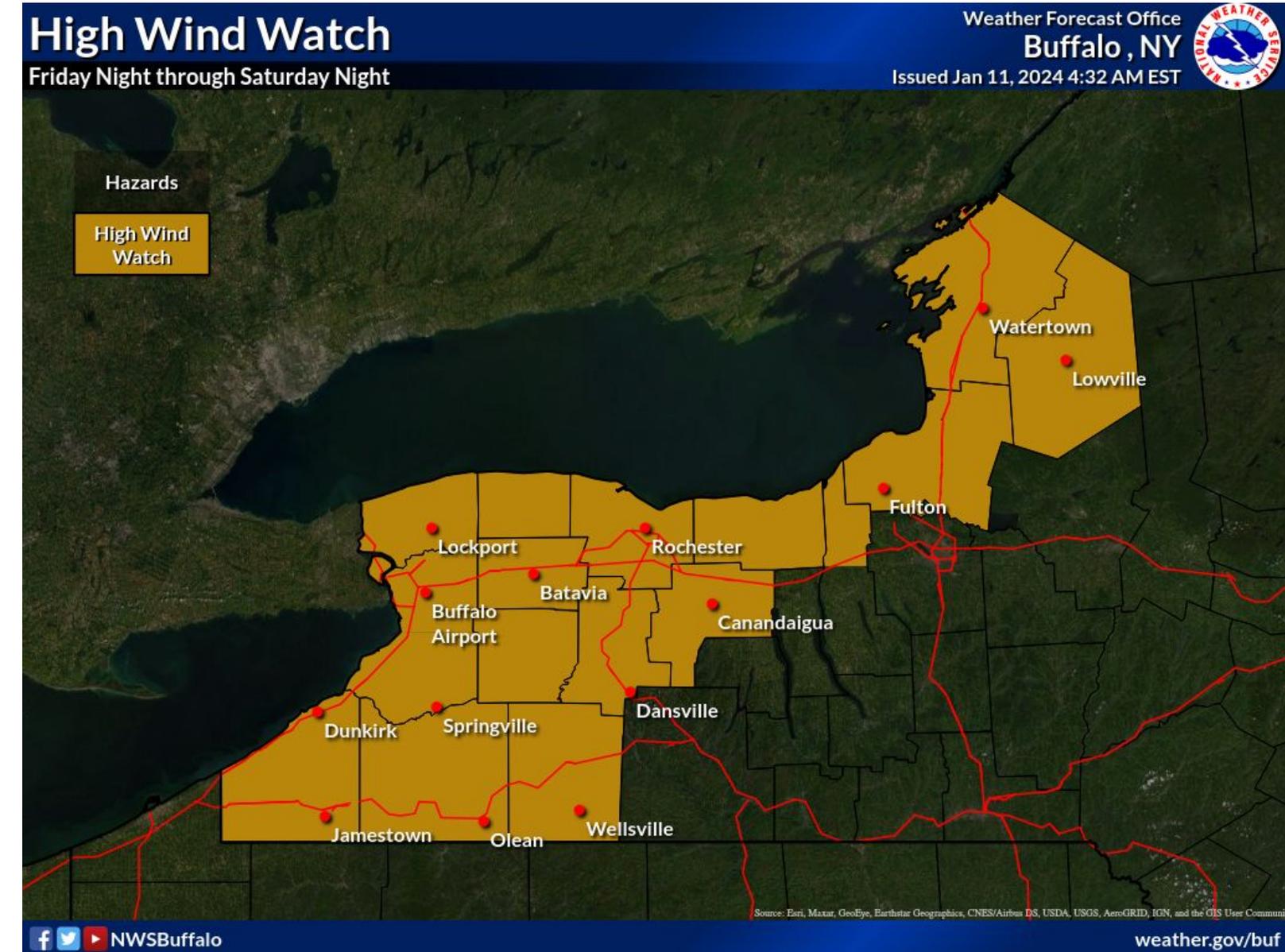




High Wind Watch

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In Effect 7 PM Friday through 4 AM Sunday



- ❑ The next strong storm system will pass by to the west and northwest of the area Friday night through Saturday
- ❑ Friday night - strong southeast downsloping winds will impact the typical areas (west of the Chautauqua Ridge and the northern/northwestern side of the Tug Hill)
- ❑ Saturday and Saturday night - strong post frontal southwest winds will impact WNY

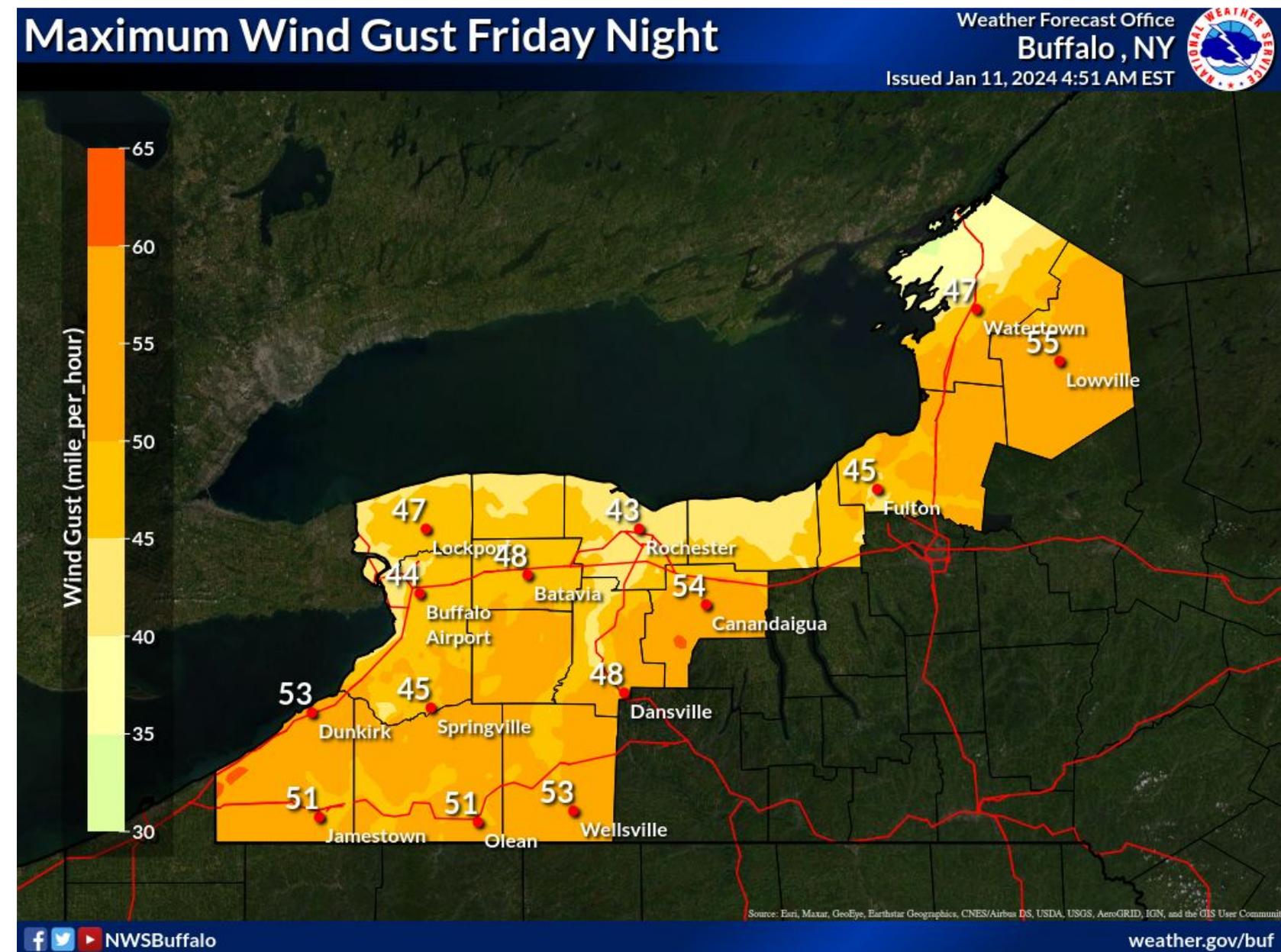




Maximum Wind Gusts

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Friday Night



- ❑ Winds will increase across the western Southern Tier and north central NY (mainly impacting the area west of the Chautauqua Ridge and north/northwest of the Tug Hill) Friday Night
- ❑ Winds will be out of the southeast
- ❑ Gusty winds could blow around unsecured objects. Tree limbs could be blown down and power outages may occur.





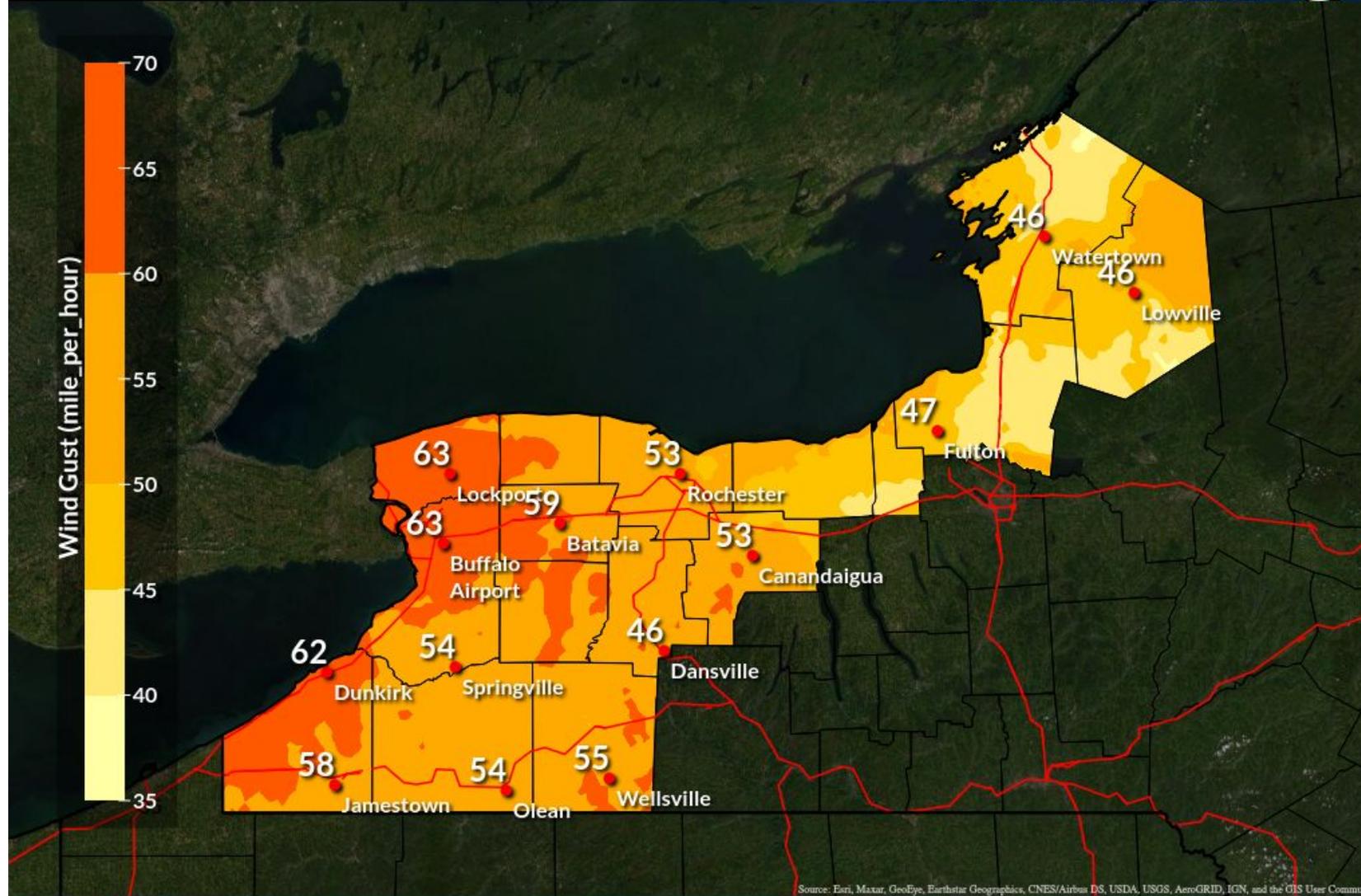
Maximum Wind Gusts

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Saturday and Saturday Night

Maximum Wind Gust Saturday

Weather Forecast Office
Buffalo, NY
Issued Jan 11, 2024 4:52 AM EST



- ❑ Winds will increase across WNY Saturday morning
- ❑ Winds will be out of the southwest
- ❑ Gusty winds could blow around unsecured objects. Tree limbs could be blown down and power outages may occur.

NWSBuffalo

weather.gov/buf



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

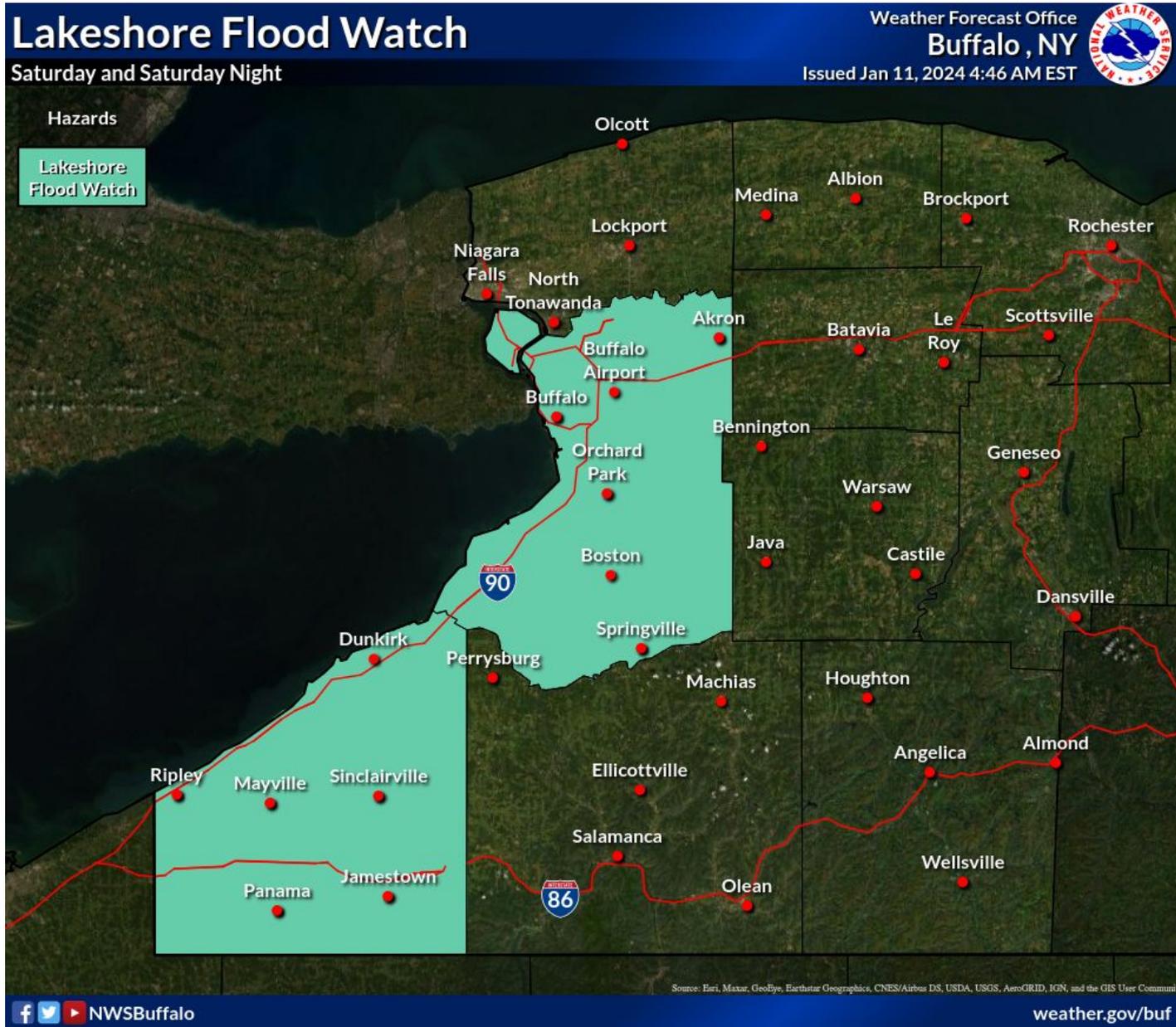
National Weather Service
Buffalo, NY



Lakeshore Flood Watch

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Today through This Evening



- ❑ **Lake Erie:** Erie and Chautauqua counties Saturday through Saturday Night
 - ❑ Strong onshore winds will cause a rapid rise in water levels and may result in lakeshore flooding along Lake Erie
 - ❑ Flooding will be possible along the shoreline, Rte 5 in Hamburg, Buffalo Harbor and Canalside, Dunkirk, and other flood prone areas
 - ❑ Shoreline erosion is also possible
 - ❑ The exact level of lakeshore flooding will follow as forecast confidence increases

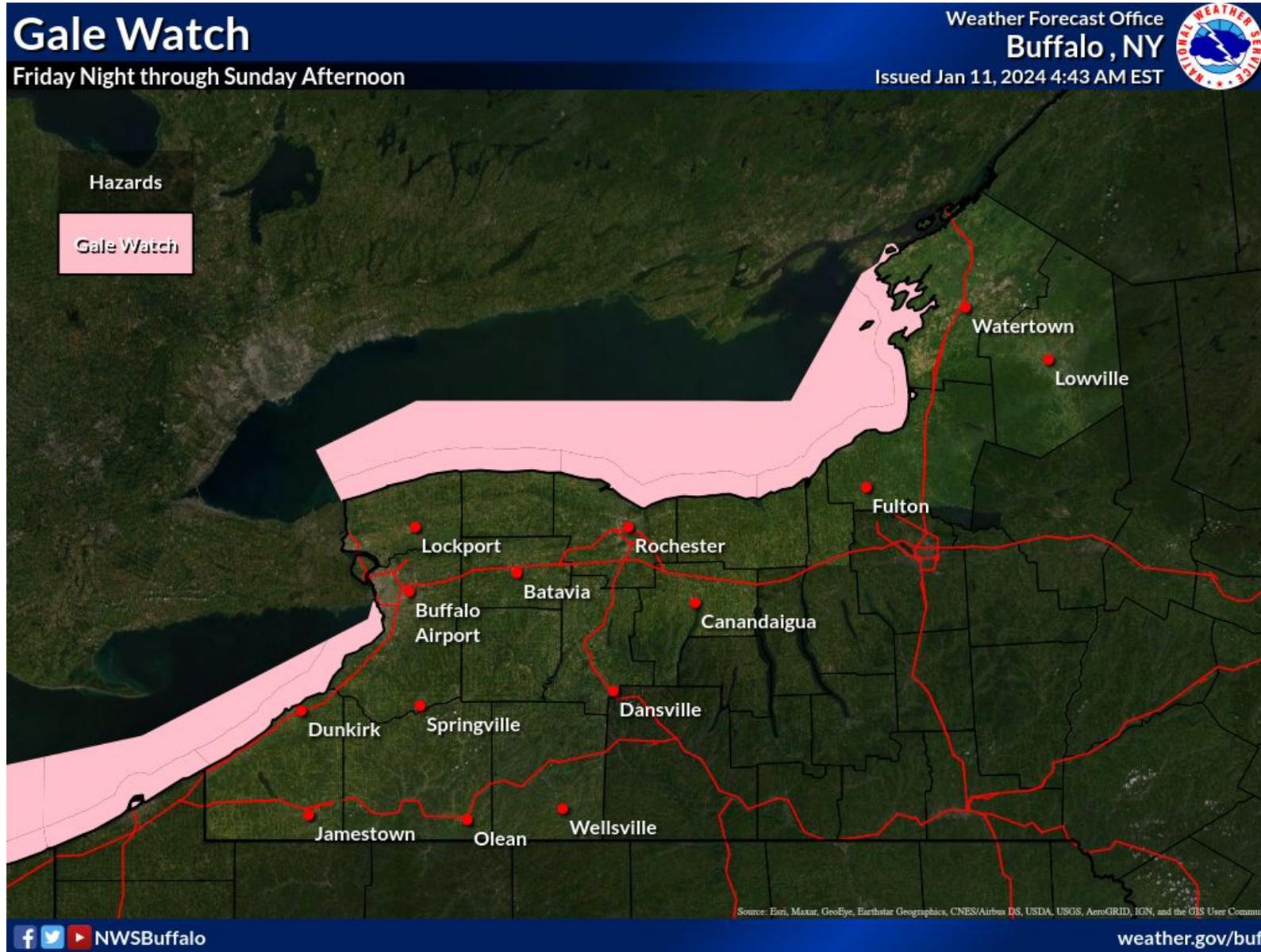




Gale Watch

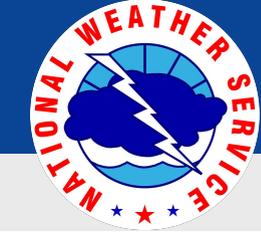
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Friday Night through Sunday Afternoon



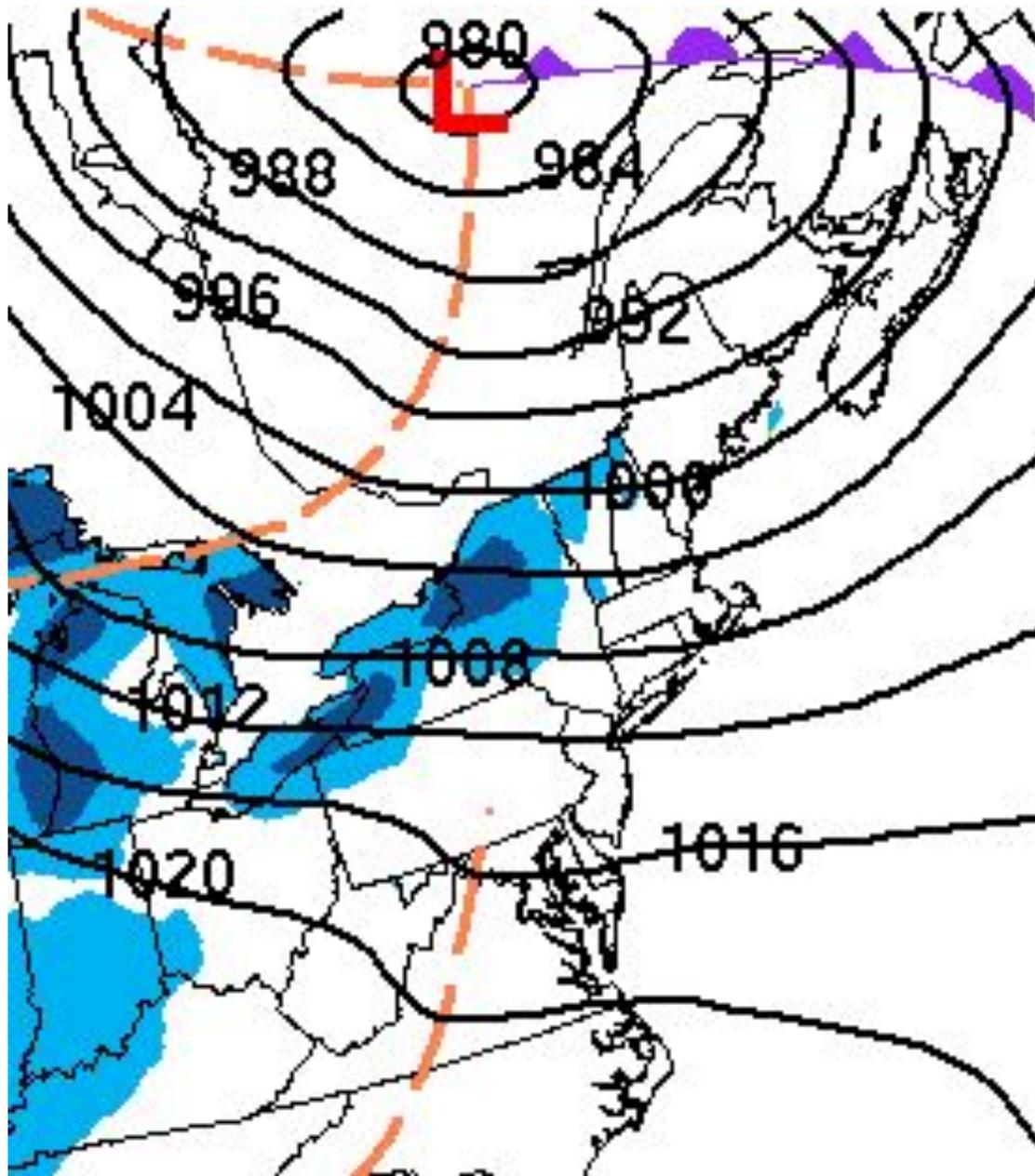
- ❑ **What:** Southeast, followed by southwest Gales possible
- ❑ **Where/When:**
 - ❑ **Lake Erie:** Starting Friday Night from the strong southeast downsloping winds and lasting through Sunday afternoon with winds shifting to southwest
 - ❑ **Lake Ontario:** Starting Saturday and lasting through Sunday afternoon due to strong southwest winds
- ❑ **Impacts:** Strong winds and large waves will create hazardous conditions, even for larger vessels
- ❑ ***A period of STORM force winds will be possible Saturday***





Lake Effect Snow to Follow Storm System

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Forecast Surface Map 7AM Sunday January 14, 2024

OVERVIEW	
	<ul style="list-style-type: none"> Lake effect snow will develop following the storm system Saturday and last throughout much of next week
TIMING	<ul style="list-style-type: none"> Lake effect snow will develop across WNY Saturday afternoon and across eastern Lake Ontario Saturday night Lake effect snow will then linger throughout the start and middle of next week
HAZARDS & IMPACTS	<ul style="list-style-type: none"> Significant lake snows will be possible across WNY and east of Lake Ontario Saturday afternoon/night through the middle of next week (and possibly longer)
FORECAST CONFIDENCE	<ul style="list-style-type: none"> There is high confidence that lake effect snows will develop following the storm system Friday night/Saturday, confidence lowers regarding to the exact position and timing of where the band will set up at any point Saturday afternoon through the middle of next week





Summary of Greatest Impacts

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- ❑ Lake effect snow off of Lake Erie will continue to shift north this morning before shifting south this afternoon and intensifying across southern Erie county this evening
- ❑ Lake effect snow off of Lake Ontario will remain relatively stationary across the Tug Hill this morning before shifting north this afternoon and then redeveloping south of Lake Ontario tonight
- ❑ Strong southeast winds will begin Friday night impacting the typical downslope areas
- ❑ Winds will shift to the southwest and amplify Saturday across WNY
- ❑ Due to the strong southwest winds, lakeshore flooding will be possible east of Lake Erie





Contact and Next Briefing Information

January 11, 2024
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For Western and North Central New York

Contact Information

Web

→ weather.gov/buf

Phone

→ (716) 565-0204

Email

→ bufstorm.report@noaa.gov

Facebook

→ facebook.com/NWSBuffalo

Twitter

→ [@NWSBUFFALO](https://twitter.com/NWSBUFFALO)

Next Briefing

- By 7 AM Friday, January 12, 2024
- Method: Email

Disclaimer

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- Do Not Use After: 7 AM Friday January 12, 2024

