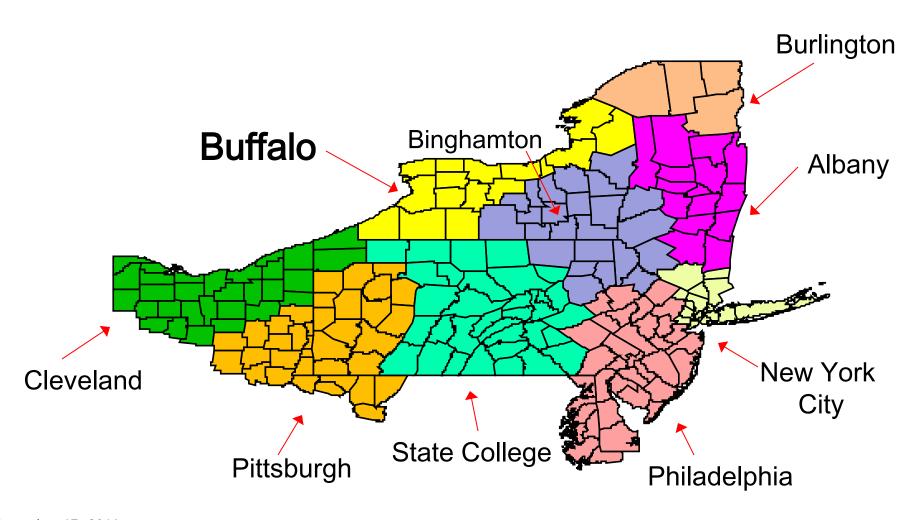
National Weather Service Forecast Office Areas of Responsibility





Communicating Risk Potential



The National Weather Service uses a

"Ready, Set, Go" approach

Substituting the words

"Outlook, Watch, and Warning"



This approach is based on the lead-time of the event and forecaster confidence.

WINTER WEATHER PRODUCTS



• WATCHES Watch the Sky

 Issued when forecaster confidence in the event occurring is at 50% or greater

CAUTION

Generally issued 12 to 48 hours in advance



WARNINGS



- Hazardous winter weather is occurring or is imminent
- Forecaster confidence is at 80% or greater
- Warnings can be issued based on significant public impact events
- Generally issued 12 to24 hours in advance

Blizzard Warning



- Wind speeds of 35 mph or greater AND
- Visibility of ¼ mile or less in blowing snow AND
- Conditions must persist for at least 3 hours
- Blizzards may or may not be accompanied by falling snow
 - When not accompanied by falling snow, it is referred to as a Ground Blizzard
- "Severe" blizzard
 - All of the above except temperatures below 20° F
 - Wind chills well below zero



Ice Storm Warning



- Issued when 1/2 inch or more of ice accumulation is expected
- An Ice Storm Warning means that freezing rain is expected to be the dominant precipitation type



Winter Storm Warning



- Issued when a combination of snow, sleet, and/or freezing rain are expected to reach warning criteria
- Issued for a general heavy snowfall of:
 - 7 inches in 12 hours
 - 9 inches in 24 hours



Lake Effect Snow Warning



- Issued for a general heavy snowfall of:
 - 7 inches in 12 hours
 - 9 inches in 24 hours



- Lake effect snow warning implies the localized nature of the heavy snow
 - In most cases not everyone in a county will receive warning criteria snowfall

Wind Chill Warning



- Issued for dangerously cold wind chills
 - Wind speeds generally 5 mph or greater



 Issued when wind chills are forecast to fall below -25° F

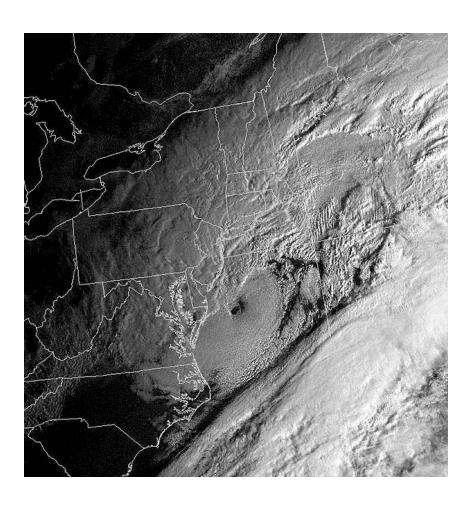






Nor'easters



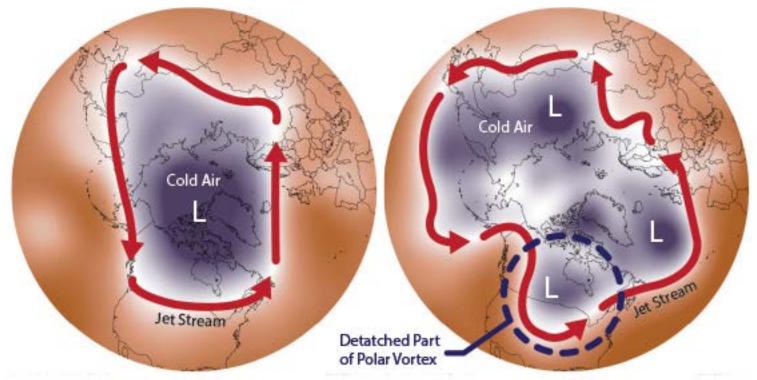


- Storm that moves north along the Atlantic Coast
- Northeast winds
- Genesee Valley west generally just brushed by the storm
- Central/Eastern New York can get moderate to heavy snowfall
- Can be accompanied by very strong winds

Polar Vortex



- From the "Glossary of Meteorology" published in <u>1959</u>:
 - "The large-scale cyclonic circulation in the middle and upper troposphere centered generally in the polar regions."

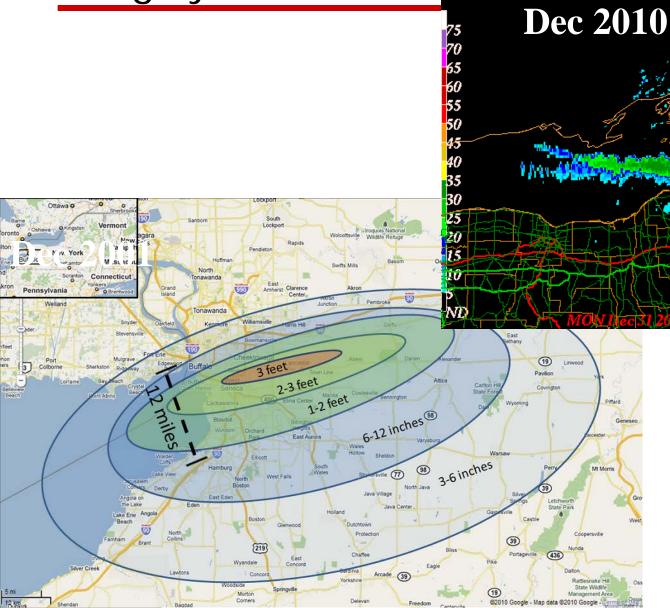


November 14-16, 2013

January 5, 2014

Lake Effect Snow Highly Localized





Precipitation Types



- Snow An aggregation of many ice crystals
- Freezing Rain Rain falls as <u>liquid</u> and then freezes on contact
 - Objects become encased in ice
- Sleet Rain drops freeze into ice pellets <u>prior</u> to reaching ground
 - Bounce when hitting the ground
- Graupel Snowflakes which have been heavily rimed
 - Also called snow pellets, soft hail, and hominy snow
 - Looks like uncooked white grits

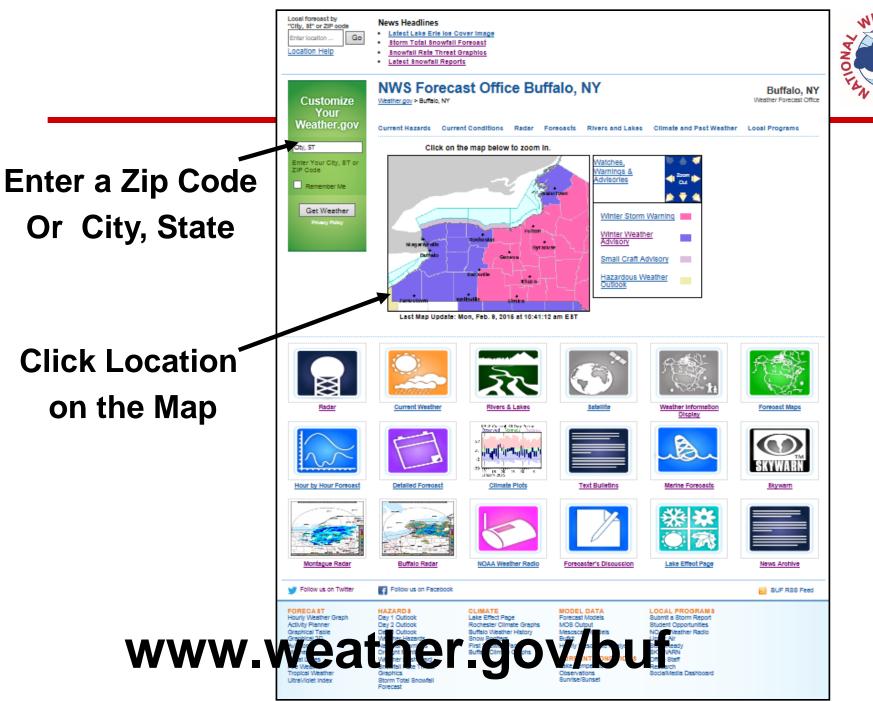
Black Ice



- Can form due to freezing of existing water on the pavement
- Can also form due to moisture from fog or high humidity during the overnight and early morning hours

Can be difficult to see, pavement may just appear wet





on the Map

Point and Click Forecast

Current Conditions











Overcast 9°C

Humidity 77% Wind Speed N 16 mph Barometer 30.19 in (1022.8 mb) Dewpoint 41°F (5°C)

Visibility 10.00 mi Wind Chill 42°F (6°C)

Last Update on 22 Oct 8:54 am EDT

Current conditions at

Greater Rochester International Airport

Lat: 43.12°N Lon: 77.67°W Elev: 600ft.

More Local Wx | 3 Day History | Mobile Weather

Stafford NY

7 Day Forecast

TODAY

For More Weather Information:

Buffalo, NY Local Forecast Office

30%

Chance

Rain

High: 49 °F





Low: 42 °F

TONIGHT

Chance Showers

High: 51 °F

THURSDAY



Showers Likely Low: 41 °F

60%

THURSDAY

NIGHT



FRIDAY

Chance Showers High: 56 °F



FRIDAY

Mostly Cloudy Low: 42 °F



SATURDAY

Chance Showers High: 58 °F



SATURDAY

NIGHT

Mostly Cloudy Low: 42 °F



SUNDAY

Partly Sunny High: 53 °F

Detailed Forecast

Today A chance of rain or drizzle before noon, then a chance of showers, mainly between noon and 5pm. Mostly cloudy, with a high near 49. North wind 10 to 13 mph. Chance of precipitation is 30%. New precipitation amounts of less than a tenth of an inch possible.

A chance of showers, mainly after 11pm. Mostly cloudy, with a low around 42. North wind around 9 mph. Chance of precipitation is 30%. New precipitation amounts of less than a tenth of an inch possible.

A chance of showers. Cloudy, with a high near 51. North wind 11 to 15 mph. Chance of precipitation is 40%. New precipitation amounts of less than a tenth of an inch possible.

Showers likely, mainly before 3am. Cloudy, with a low around 41. Northwest wind around 7 mph. Thursday Chance of precipitation is 80%. New precipitation amounts of less than a tenth of an inch possible. Night

Friday A chance of showers, mainly before 4pm. Mostly cloudy, with a high near 56. West wind 9 to 14 mph. Chance of precipitation is 40%. New precipitation amounts of less than a tenth of an inch possible.

Topographic

Click Map For Forecast



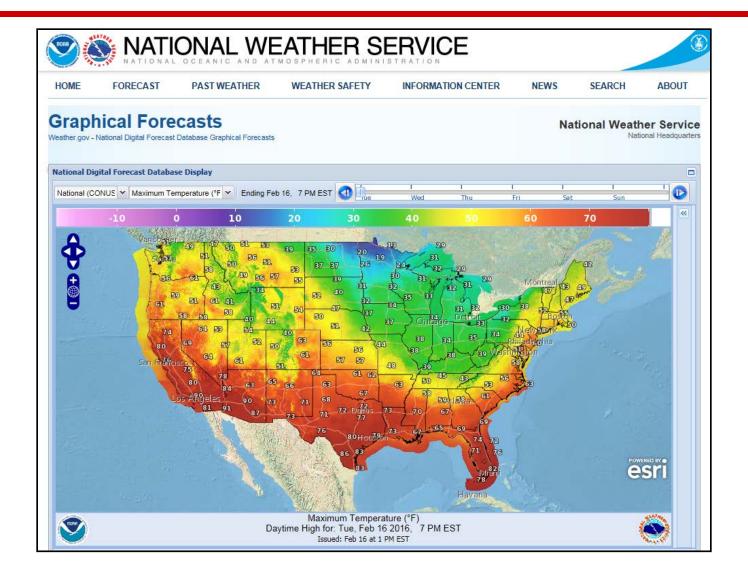
Hourly Forecast Graphs



Point Forecast: 2 Miles ESE Albany NY Last Update: 3:01 pm EST Feb 16, 2016 42.65N 73.78W (Elev. 197 ft) Hourly Weather Forecast Graph [dashes/dots] | [b/w] | [hide menu] Weather Elements Weather/Precipitation ✓ Temperature (°F) ✓ Surface Wind mph ✓ ✓ Rain ✓ Dewpoint (°F) ✓ Thunder Sky Cover (%) ✓ Snow ✓ Wind Chill (°F) ✓ Precipitation Potential (%) Freezing Rain ✓ Relative Humidity (%) ✓ Sleet Fog 48-Hour Period Starting: 3pm Tue, Feb 16 2016 Submit Back 2 Days | Forward 2 Days SOlx Lkfy -S¢ho Wed, Feb 17 2016 Thu, Feb 1B 2016

digital.weather.gov

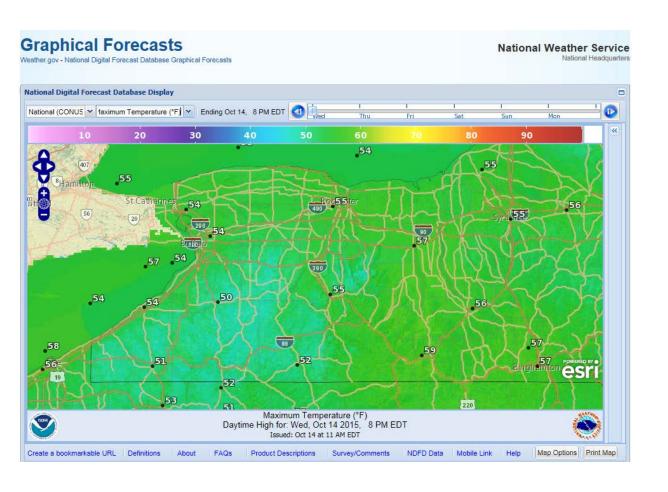




http://digital.weather.gov



Graphical Forecasts from NWS digital database Zoomable to Street Level



Forecasts of:

- Temperature
- Wind
- Probability of Precipitation
- Hazards
- Precipitation
 Amounts –
 6-hr and total
- Snow amounts –
 6-hr and total

http://preview.weather.gov/edd



