

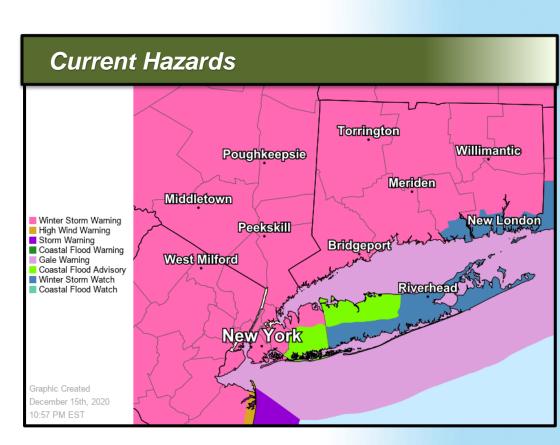


Major Winter Storm Wed PM-Thu AM

Decision Support Briefing #3
As of: 600 PM Dec 15th, 2020

What Has Changed?

- ✓ Winter Storm Warning now in effect for most of the region for Wed PM into Thu AM
- ✓ Coastal Flood Advisories and Watches in effect for Wed PM and Thu AM high tides
- ✓ Gale Warning in effect for all waters Wed PM into Thu AM













Main Points

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Hazard



Location

Timing

Snow develops Wed PM

Hea Sno 8-12"



Snowfall rates of 1-3"/hr likely.

- Blizzard conditions possible along coast.

Much of Tri-State Region 12 -18" likely N&W of

NYC

Heavy snow Wed Night Snow tapers off Thu AM

Difficult travel.





Snowfall rates of 1-2"/hr possible

- Sleet will likely mix with the snow, potentially mixing with rain briefly.
- · Difficult Travel.

Southern and Eastern Long Island and extreme SF CT

NYC/NJ metro and Coast.

Snow develops Wed PM **Snow/Sleet Wed Night** Snow tapers off Thu AM





 Scattered to numerous downed tree limbs and power lines along coast.

- Blowing and drifting of snow across
- Interior.
- **Lighter winds Interior** 15-20g30mph
- Wed Eve into Thu AM





- Minor to Moderate coastal flooding likely.
- Inundation of 1 to 3 ft above ground in most vulnerable areas.
- Scattered Dune Erosion/Isolated overwashes
- -Locally moderate for W LIS Wed PM
- -Highest threat of moderate for South Shore Bays of LI and Queens on Thu AM
- Wed Eve Minor to **locally Moderate** Thu AM- Minor to

Moderate

Marine 30-40G45kt **12-16ft seas**



- Gales conditions expected, Storm Force gusts possible
- Ocean 12-16 ft seas
- LI Sound 4-7 ft seas

All Coastal Waters

Wed PM into Thu AM

Weather Forecast Office New York, NY

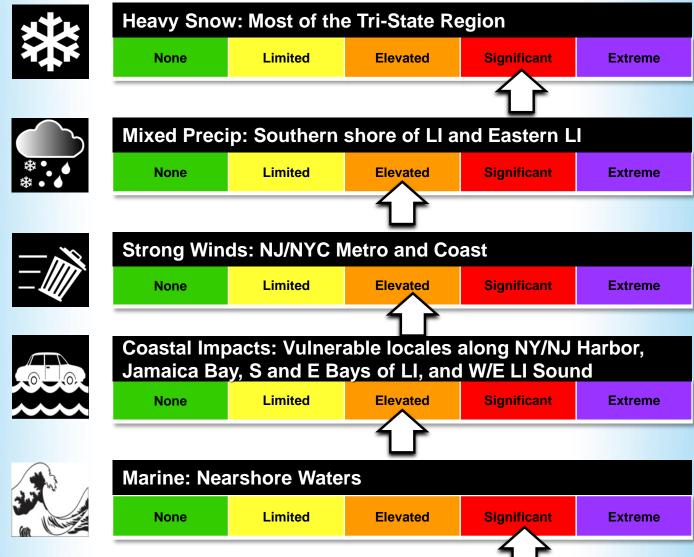








Summary of Greatest Impacts







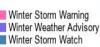


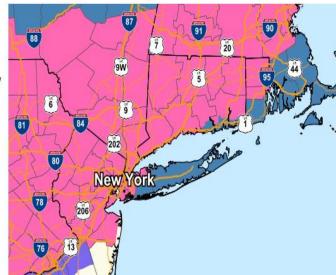




Heavy Snow

Winter Watches Warnings and Advisories





Graphic Created December 15th, 2020 9:57 PM CST

Hazards: Winter Storm Warning in Effect for Much of Region

- ✓ N&W of NYC –12-18" of snowfall likely.
 - ✓ Snowfall rates: 2-3"/hr Wed Eve/Night
 - ✓ Visibility: ¼ mile or less at times
 - √ <u>Temperatures</u>: Lower to Mid 20s Interior.
- ✓ Much of Region 8-12" of snowfall likely.
 - ✓ Snowfall rates: 1-2"/hr Wed Eve/Night
 - ✓ <u>Visibility</u>: ¼ mile or less at times
 - √ <u>Temperatures</u>: Upper 20s to Lower 30s
- ✓ S&E LI and far SE CT- 3-10" of snow and sleet
 - Snowfall rates: 1-2"/hr possible Wed Eve through around 1 am
 - ✓ Temperatures: Lower to Mid 30s

Impacts:

- Difficult travel Wed Eve into Thu AM
- Scattered to numerous downed tree limbs and power lines
 Blizzard conditions possible at times Wed Night for coast

Timing:

- ✓ Snow develops Wed aft
- ✓ Heavy snow Wed Eve, continues into Wed Night
- ✓ Snow tapers off Thu AM

Forecast Challenges:

- ✓ Uncertainty in how far north sleet mixes in along coast.
 - ✓ Likely period of mixing across southern and eastern portions of Long Island and extreme SE CT

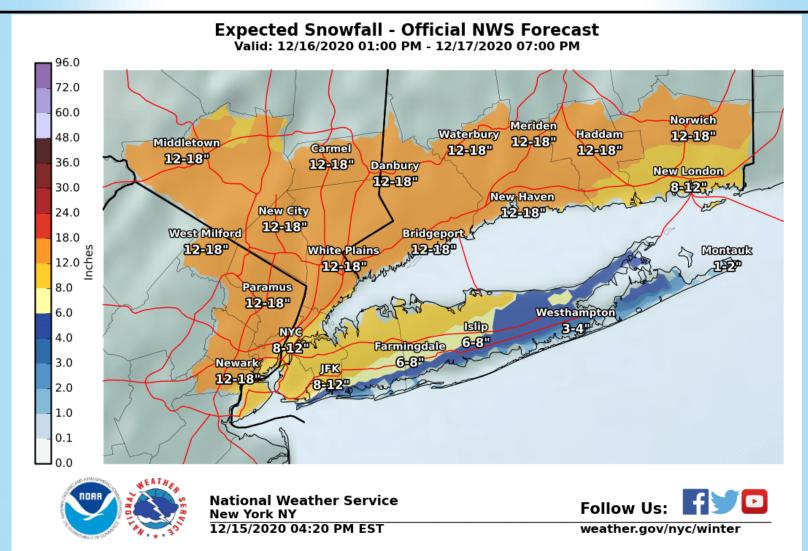








Most Likely Snowfall – Official Forecast





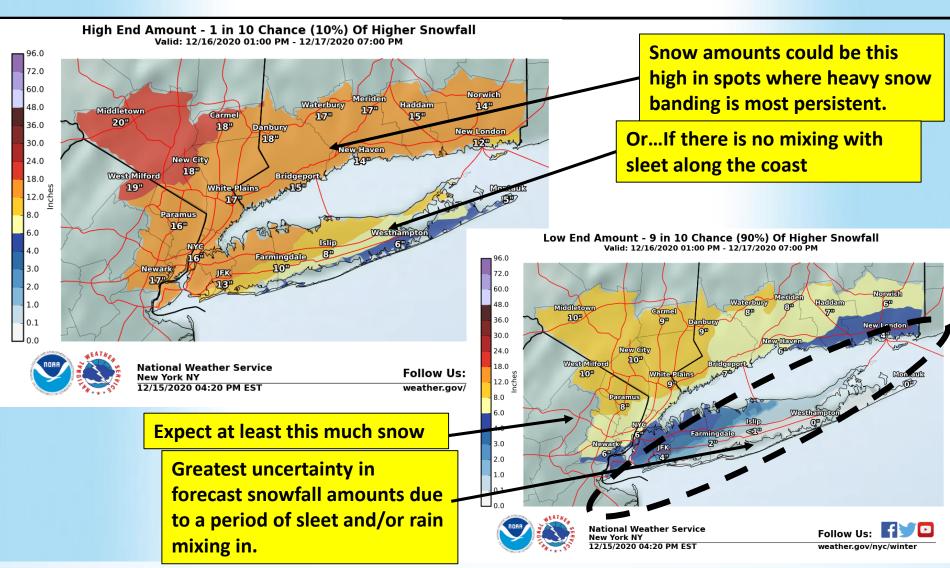








Probabilistic Snowfall Forecast













Snow/Sleet Line Uncertainty

Expected Snowfall - Official NWS Forecast . Valid: 12/16/2020 01:00 PM - 12/17/2020 07:00 PM

96.0 72.0

Greatest uncertainty in snowfall amounts due to a potential for sleet and or rain mixing in.

60.0 Norwich Meriden Haddam 12-18° 48.0 12-18^m Middletown Carmel $12-18^{\circ}$ 12-18º 12-18⁴ 36.0 12-18° Danbury New Londo. $12-18^{\circ}$ 30.0 New Haven New City 24.0 12-18° West Milford Bridgeport. 12-13° 18.0 Monteut 12-18° White Plains 12.0 saluches 1218 8.0 **Paramus** 12-18º 6.0 of Della Farmingdale 6-8m 4.0 Newark 3.0 12 - 182.0 1.0 0.1

National Weather Service New York NY

12/15/2020 04:20 PM EST

Follow Us:



weather.gov/nyc/winter

This zone of mixed precip could shift 20 miles north or south. If it move northwest amounts will be lower for the city/coast. If it moves southeast, amounts will be higher for the city/coast.

Weather Forecast Office New York, NY

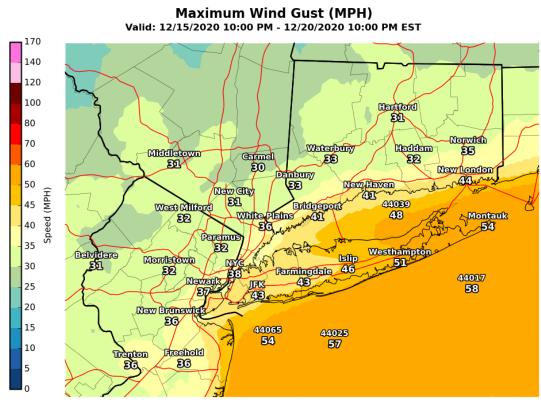








Strong Winds







Follow Us:



Hazards:

- Eastern Long Island
 - NE winds 25-35mph with gusts to near 50 mph
- **NYC & Coast**
 - NE winds 25 to 30 mph with gusts to 45 mph
- Interior
 - NE 15-20 gusts to 35mph

Impacts:

- Scattered to numerous downed tree limbs and power lines
- Near blizzard conditions along portions of the coast

Timing:

Wed Eve into early Thu AM







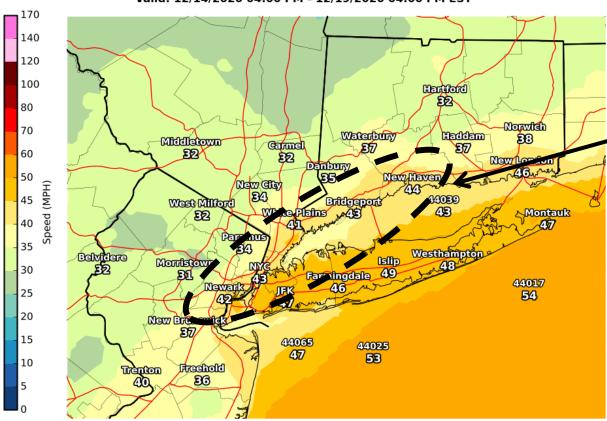




Strong Wind and Heavy Wet Snow Impacts

Maximum Wind Gust (MPH)

Valid: 12/14/2020 04:00 PM - 12/19/2020 04:00 PM EST



Potential for the zone of more widespread downed tree limbs and power lines (NE NJ, NYC, NW Long Island, SW Connecticut, and S Westchester) due to heavy wet snow (6-12") and strong winds.





Follow Us:



weather.gov/nyc



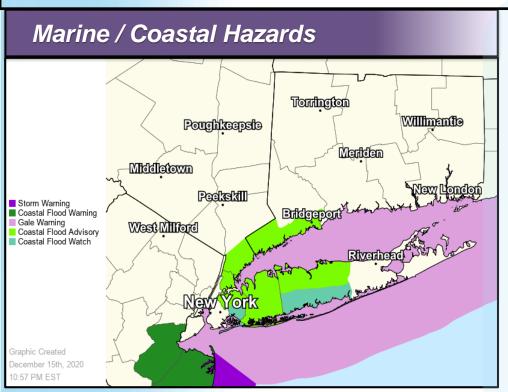








Coastal Flooding



Please go to the NWS New York, NY Coastal Flooding Page for the latest coastal flood forecast and the tools to visualize the coastal impacts.

https://www.weather.gov/okx/coastalflood

Coastal Flood Hazards and Impacts:

- ✓ Minor to locally moderate coastal impacts likely Wed PM (1-1½ ft inundation)
 - Localized moderate impacts along W LI Sound due to 3-5 ft wave action
- Moderate coastal impacts possible Thu AM.
 (2-3 ft inundation)
 - South shore bays of Queens and LI
 - Several waterfront road closures and potential property damage

Shoreline Hazards and Impacts:

- √ 6-10' breaking waves along the oceanfront, 3 to 6' along LI sound shoreline and Twin Forks.
- Widespread beach erosion and flooding. Scattered areas of dune erosion and isolated washovers along oceanfront Wed PM into Thu AM.
- Minor damage to shoreline structures possible along W LI Sound Wed PM.

Timing:

✓ During times of high tide Wed PM and Thu AM











Coastal Flooding –Inundation Areas

Greatest threat areas for Moderate inundation during Thu AM high tides.

(Likely inundation areas of inundation are shaded in orange. Potential areas of inundation are shaded in Red)



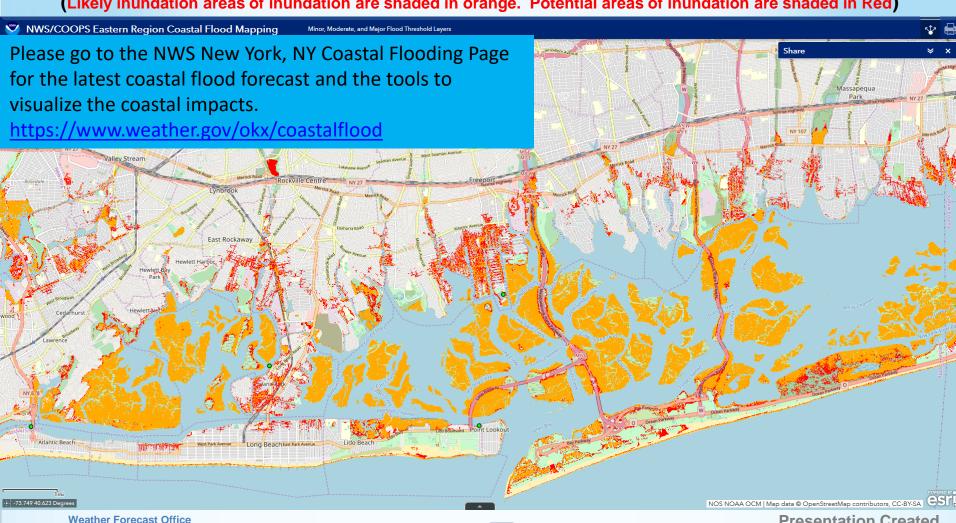




Coastal Flooding – Inundation Areas

Greatest threat areas for Moderate inundation during Thu AM high tides.

(Likely inundation areas of inundation are shaded in orange. Potential areas of inundation are shaded in Red)







Event Summary

- ✓ Winter Storm Warning in effect for most of the area for Wed Afternoon into Thursday Morning
 - ✓ Heavy Snow (8-12") potential for Much of the Region
 - ✓ A swath of 12-18" of snow likely N&W of NYC
 - √ 1-2"/hr snowfall rates Wed Eve/Night
 - ✓ Blizzard conditions possible along portions of the coastal plain.
 - ✓ Sleet and/or rain will mix in across S&E Long Island and SE CT, limiting amounts (3-10")
- ✓ Strong Winds for the NYC/NJ metro and Coast
 - ✓ 20-35mph with gusts to 40-50mph
 - Scattered to numerous downed tree branches and powerlines.
- Coastal Flood Advisories and Watches in Effect
 - Minor to locally moderate coastal flood potential Wed PM
 - Minor to moderate coastal flood potential with Thu AM high tides
- Gale Warning in effect for all waters Wed Afternoon into Thursday Morning
 - √ 30-40kt with gusts 45kt. Occasional gusts to 50 kt possible
 - Ocean seas 12-16 ft. 4-7 ft on LI Sound.











Contact and Next Briefing Information



Next Briefing

When: Around 6 AM Wednesday

Method: Email







Disclaimer: The information contained within this briefing is time-sensitive, do not use after 6 AM Wednesday (12/16/20).





