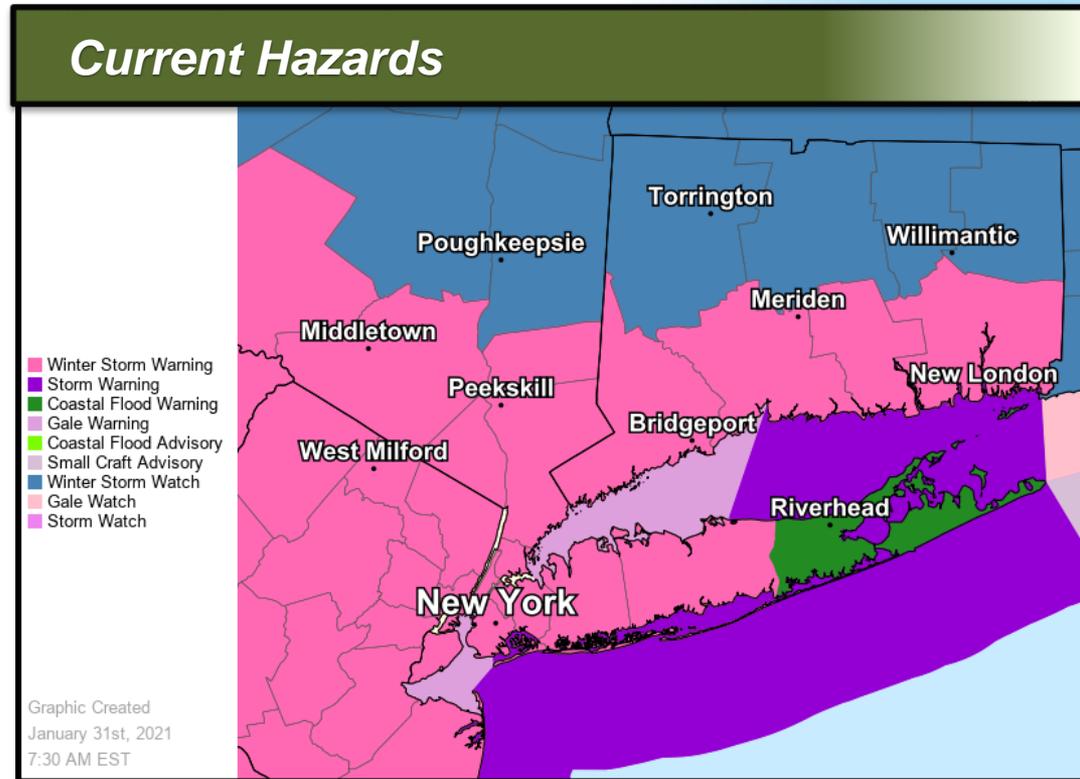


Major Winter Storm Tonight into Tuesday

Decision Support Briefing #3 As of: 700 AM Jan 31, 2021

What Has Changed?

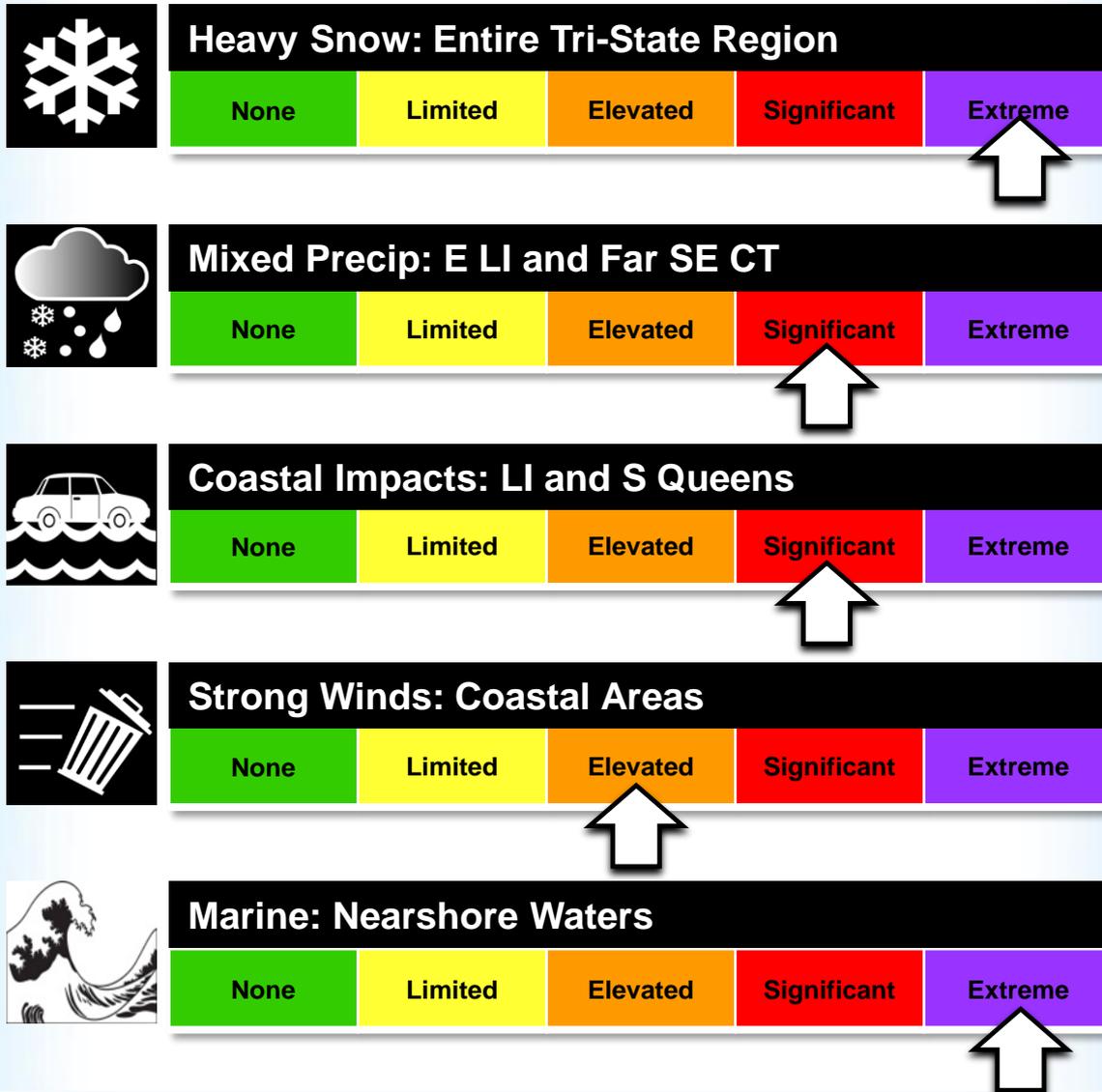
- ✓ Upgrade to Winter Storm Warning for Most of the Region.
- ✓ Upgrade to Coastal Flood Warnings and Advisories for much of the coast for the Monday/Monday night .
- ✓ Upgrade to Storm Warning for ocean waters, and southern and eastern nearshore waters for Monday into Tuesday AM
- ✓ Upgrade to Gale Warning elsewhere Monday Into Tuesday AM



Main Points

| Hazard | Impacts | Location | Timing |
|--|---|---|---|
| Heavy Snow 12-18" Locally 18+  | <ul style="list-style-type: none"> • Snowfall rates of 1-3 inches/hr likely Mon/Mon Eve • Near blizzard conditions possible along coast Mon/Mon Eve. • Difficult to Impossible travel. | <p>Much of the Tri-State Region</p> | <ul style="list-style-type: none"> • Snow develops late this Eve. • Heavy snow Mon/Mon Eve. • Periods of lighter snow late Mon Night into Tue. |
| Heavy Snow/ Mixed Precip 4-12"  | <ul style="list-style-type: none"> • Heavy Snow Monday, possibly mixing with rain/sleet Monday Night/Tue AM. • Difficult Travel. | <p>E LI and Far SE CT</p> | <ul style="list-style-type: none"> • Snow develops late this Eve. • Heavy Snow Mon. • Possibly mixing with rain Monday Eve into Tue AM • Periods of lighter snow Tue. |
| Coastal Impacts 2 to 3 ft Inundation above ground level (AGL)  | <ul style="list-style-type: none"> • Moderate to locally Major coastal flood impacts. • Areas of dune erosion and localized overwashes. | <p>Greatest Coastal Impacts – Along S and E bays of LI Dune Impacts- Oceanfront</p> | <p>Times of high tide Monday Into Monday Night</p> |
| Strong Winds 20-30G50mph  | <ul style="list-style-type: none"> • Scattered downed tree limbs and power lines. • Near blizzard conditions possible along coast Mon/Mon Eve. | <p>Coastal Areas, including NYC/NJ metro</p> | <p>Monday into Monday Night</p> |
| Marine  | <ul style="list-style-type: none"> • Gale to Storm conditions. • Seas of 12-17 ft on the Ocean and 4-8 ft on LI Sound. | <p>Nearshore Waters</p> | <p>Tonight through Monday Night</p> |

Summary of Greatest Impacts



Heavy Snow

Winter Storm Warning in Effect Sunday Night thru Monday Night

Hazards:

- ✓ **Much of the Region** – 12-18" of snow likely, 18-24" possible.
 - ✓ Snowfall rates: 1-3"/hr possible Mon/Mon Eve
 - ✓ 2-5" of snow possible by Mon morning commute for NYC/NJ metro
 - ✓ Temperatures: Upper 20s to Lower 30s for city/coast. Lower to mid 20s for Interior.
- ✓ **E LI and Far SE CT** – Potential for 4-12" of snow. Likely mixing with rain/sleet Mon Eve into Tue AM.

Impacts:

- ✓ Difficult to Impossible travel late Monday into Monday Evening
- ✓ Scattered downed tree limbs and power outages possible.
- ✓ Blizzard conditions possible at times Monday into Monday Night for city/coast.

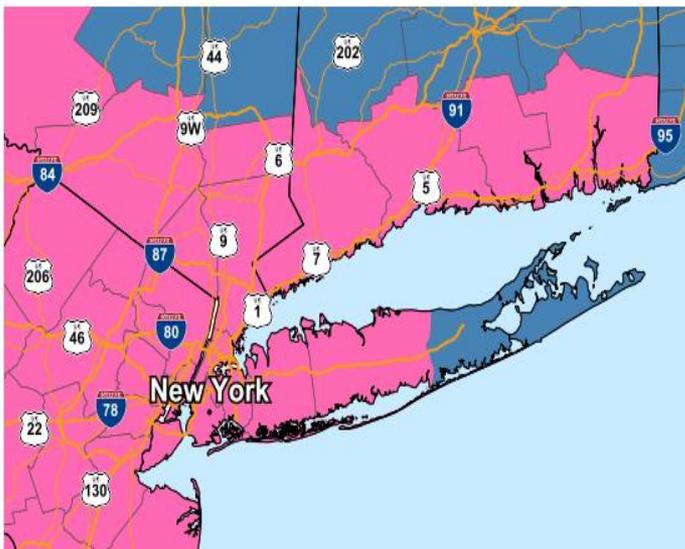
Timing:

- ✓ Snow develops late this evening into tonight.
- ✓ Heavy snow Monday into Mon Eve.
- ✓ Periods of light to moderate snow late Mon Night into Tue.

Forecast Challenges:

- ✓ Duration/location of heavy snow banding Mon into Mon Night.
- ✓ How far NW, and how long rain and sleet mixes in along coast, especially across E LI and Far SE CT.

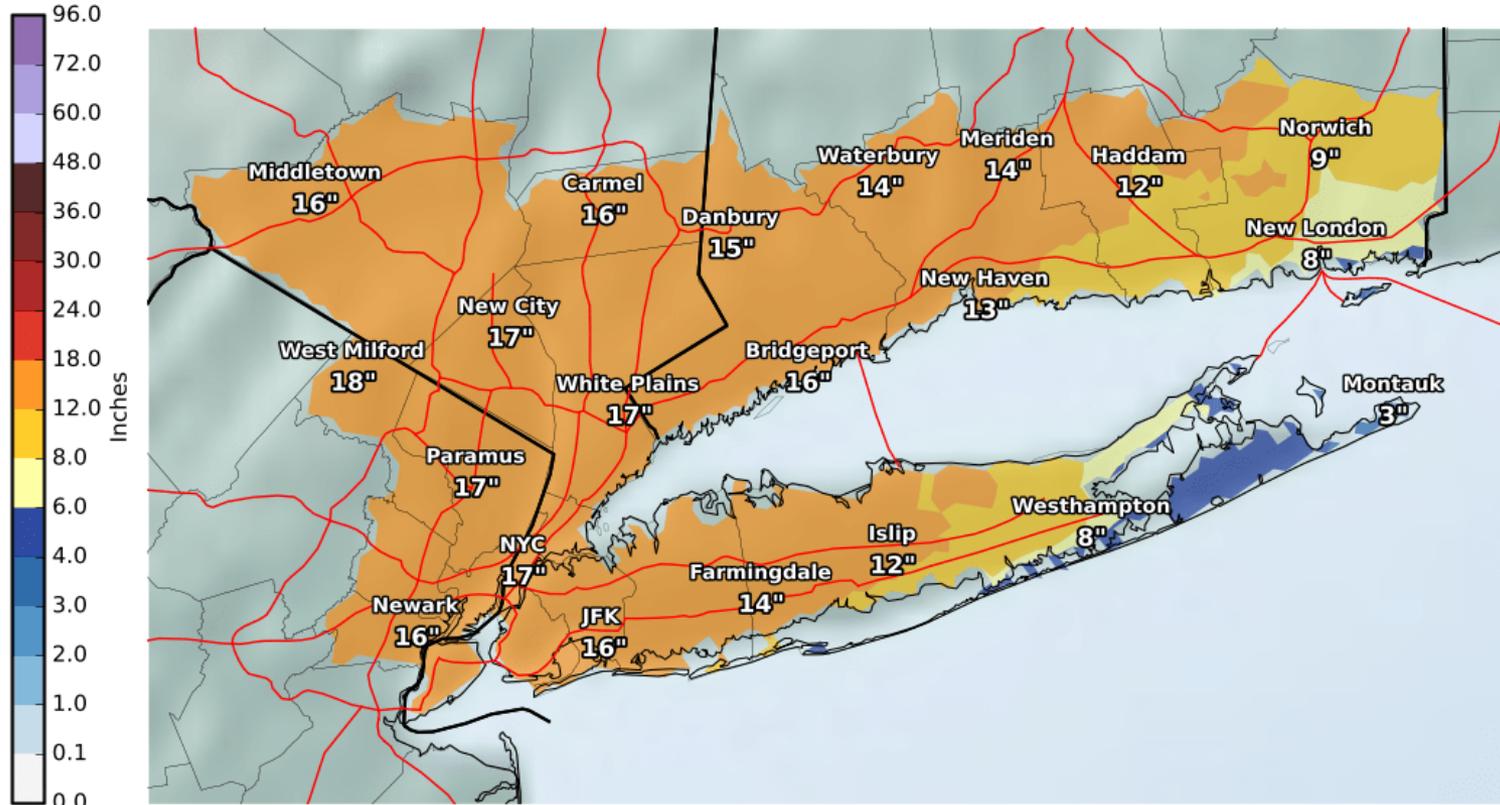
Winter Watches Warnings and Advisories



Graphic Created
January 31st, 2021
6:30 AM CST

Most Likely Snowfall – Official Forecast

Expected Snowfall - Official NWS Forecast
Valid: 01/31/2021 07:00 PM - 02/02/2021 07:00 AM



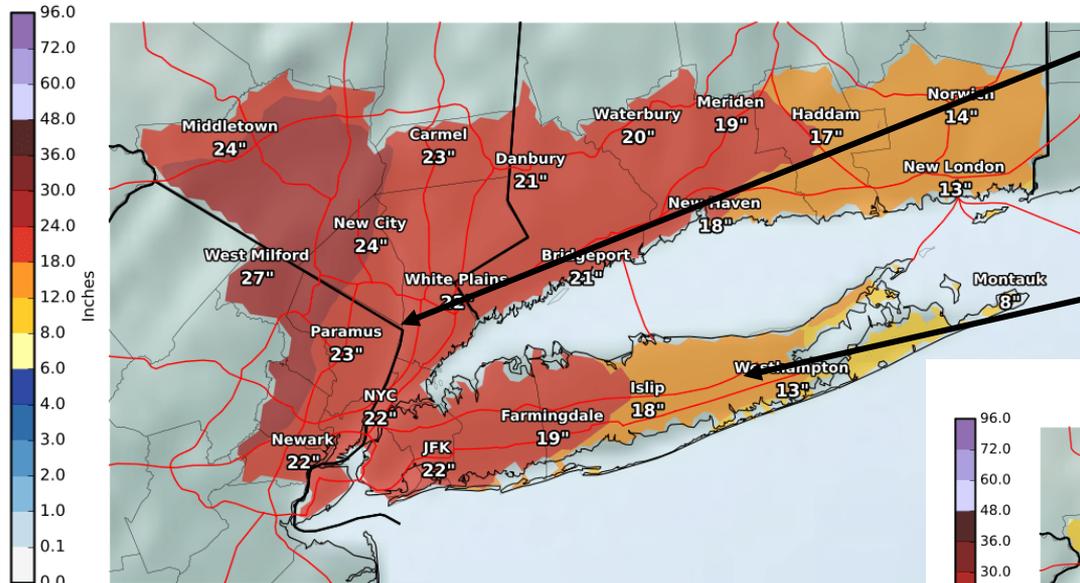
National Weather Service
New York NY
01/31/2021 05:01 AM EST

Follow Us:
weather.gov/nyc/winter

Probabilistic Snowfall Forecast

High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall

Valid: 01/31/2021 07:00 PM - 02/02/2021 07:00 AM

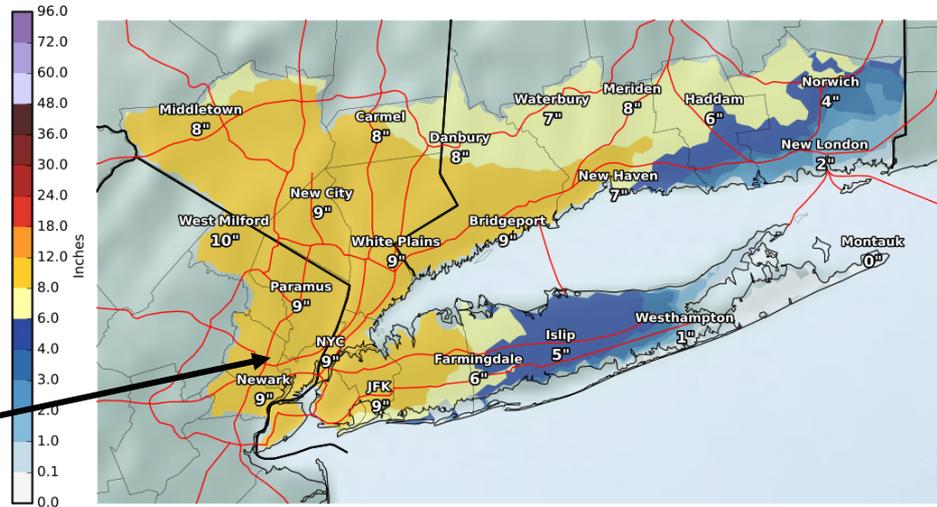


Snow amounts could be this high in spots where heavy snow banding is most persistent.

Or...If there is no/less mixing with rain/sleet across E LI and Far SE CT

Low End Amount - 9 in 10 Chance (90%) Of Higher Snowfall

Valid: 01/31/2021 07:00 PM - 02/02/2021 07:00 AM



Expect at least this much snow



National Weather Service
New York NY
01/31/2021 05:01 AM EST

Follow Us:
weather.gov/

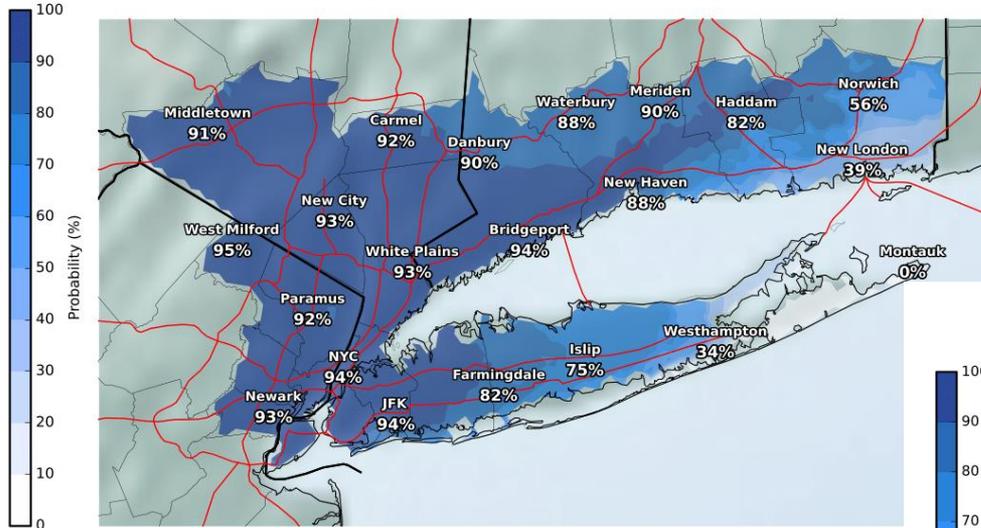


National Weather Service
New York NY
01/31/2021 05:01 AM EST

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Probabilistic Snowfall Forecast

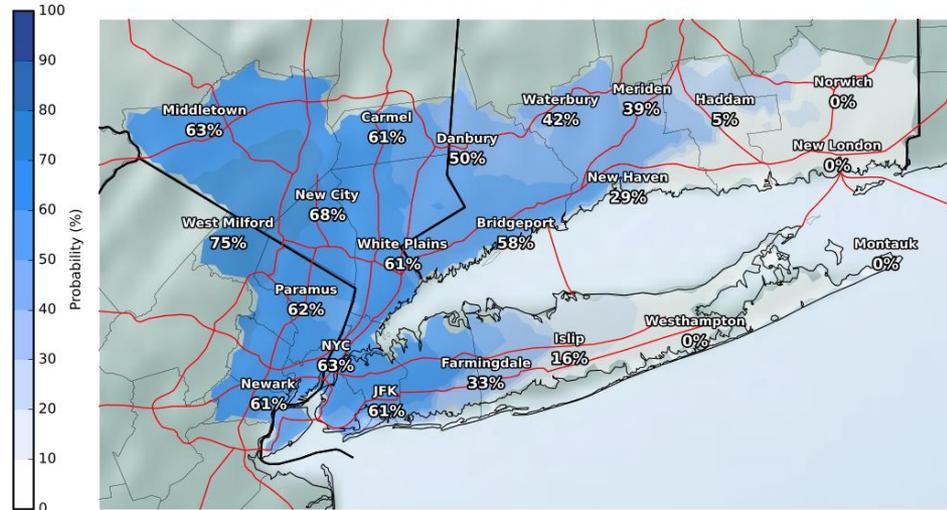
Percent Chance of 6" Snow or More
Valid: 01/31/2021 07:00 PM - 02/02/2021 07:00 AM



National Weather Service
New York NY
01/31/2021 05:01 AM EST

Follow Us: [weather.gov/nyc/win](https://www.weather.gov/nyc/win)

Percent Chance of 12" Snow or More
Valid: 01/31/2021 07:00 PM - 02/02/2021 07:00 AM



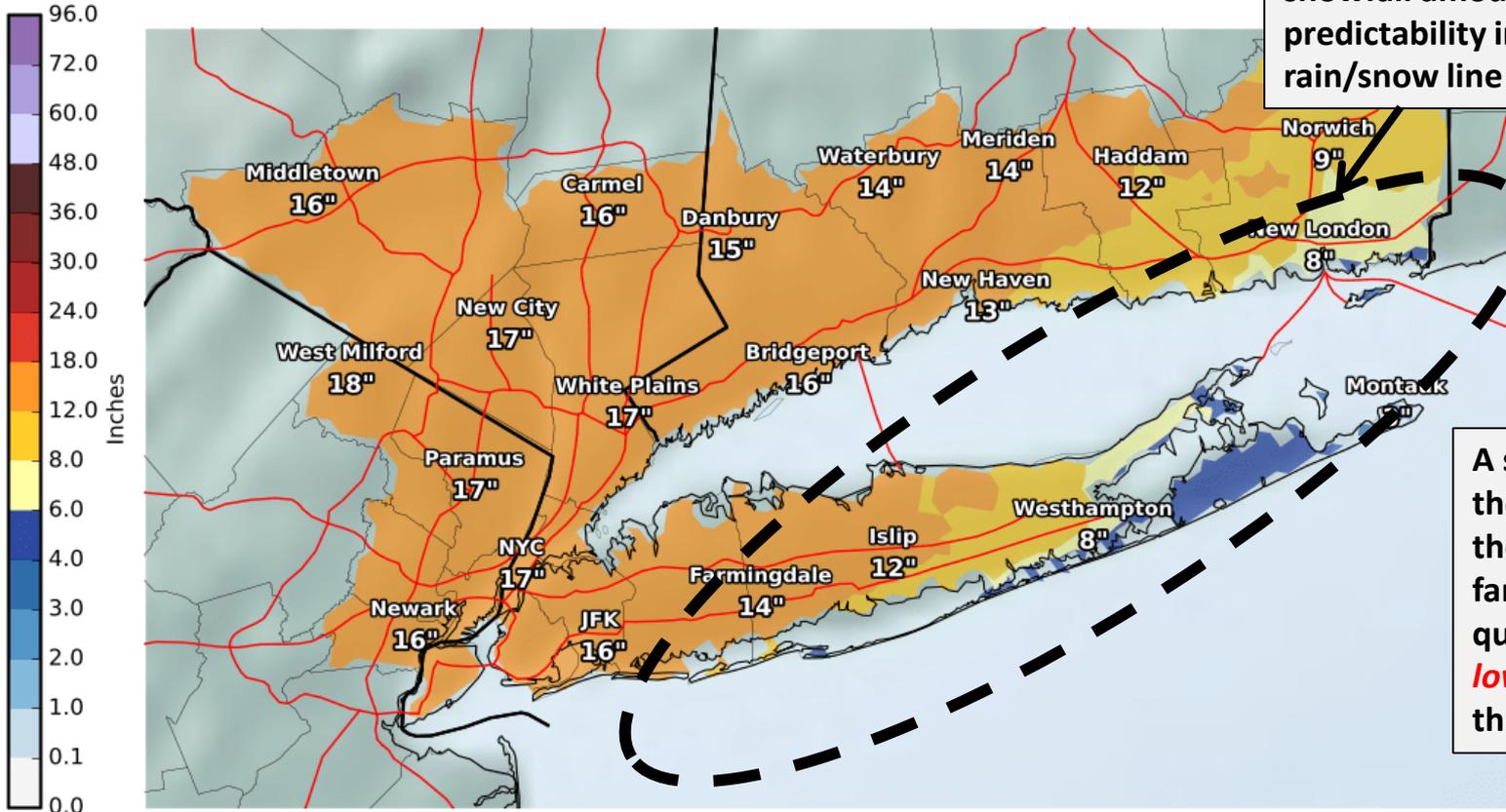
National Weather Service
New York NY
01/31/2021 05:01 AM EST

Follow Us:
[weather.gov/nyc/winter](https://www.weather.gov/nyc/winter)

Rain/Snow Line Uncertainty

Expected Snowfall - Official NWS Forecast
Valid: 01/31/2021 07:00 PM - 02/02/2021 07:00 AM

Greatest uncertainty in forecast snowfall amounts due to low predictability in the location of the rain/snow line Monday Night.

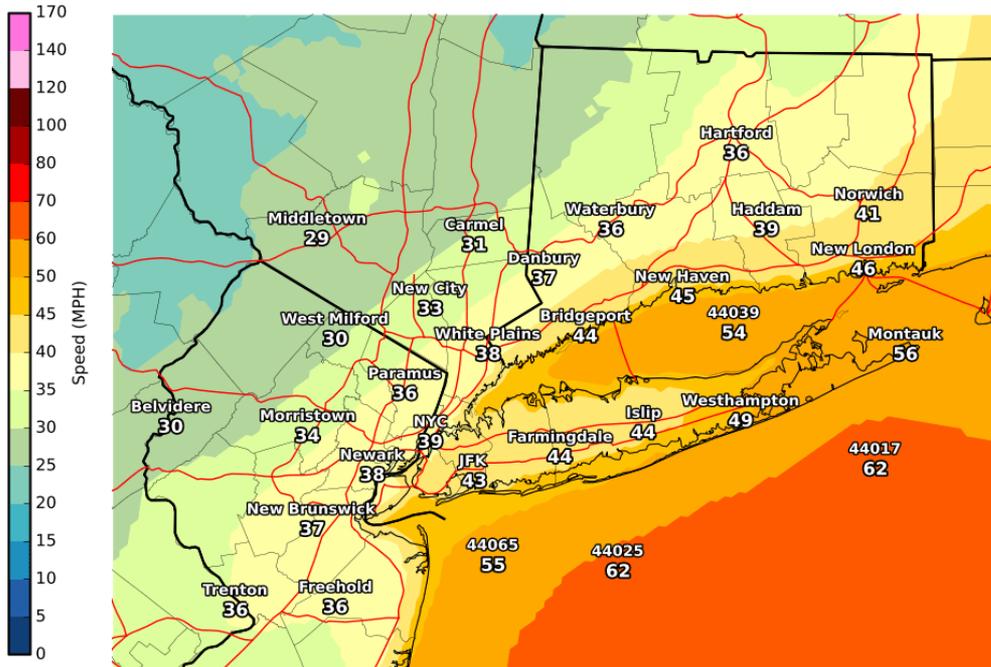


A storm track *closer* to the coast would move the rain/snow line farther west and quicker, resulting in *lower* snowfall totals in this area.

Strong Winds

Maximum Wind Gust (MPH)

Valid: 01/31/2021 05:00 AM - 02/05/2021 05:00 AM EST



Hazards: Peak Winds

- ✓ **Eastern Long Island**
 - ✓ NE winds 30-40mph with gusts to 50 to 60 mph
- ✓ **NYC & Coast**
 - ✓ NE winds 20 to 30 mph with gusts 40 to 50 mph
- ✓ **Interior**
 - ✓ NE 15-20 with gusts 25 to 30mph

Impacts:

- ✓ Scattered downed tree limbs and power lines
- ✓ Near blizzard conditions along the coast

Timing:

- ✓ Monday into Monday Night

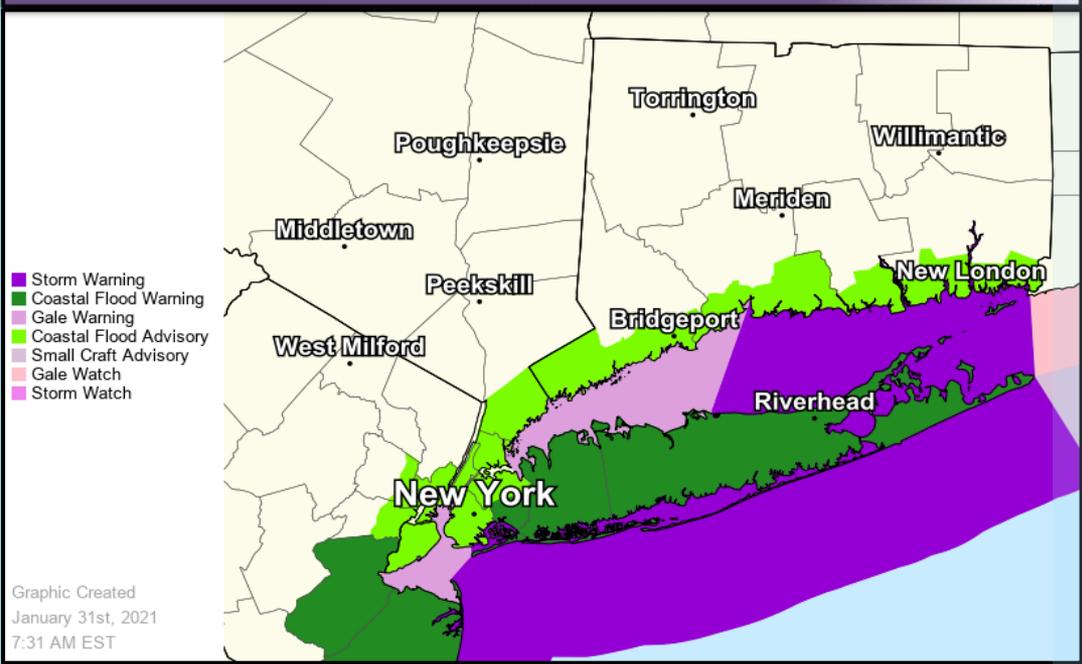


National Weather Service
New York NY
01/31/2021 05:38 AM EST

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weather.gov/nyc

Coastal Flooding – Coastal Flood Warnings in Effect for Mon and Mon Night High tides

Marine / Coastal Hazards



Coastal Flood Hazards and Impacts:

- ✓ Minor to moderate coastal impacts Mon.
 - ✓ Greatest threat of moderate inundation (2 ft above ground) along south shore of Nassau & Queens
- ✓ Widespread Minor to Moderate Mon Night. Locally MAJOR coastal impacts possible.
 - ✓ **Greatest threat of moderate to locally major (3 ft above ground) along southern and eastern bays of LI.**
- ✓ Several waterfront road closures and potential property damage

Shoreline Hazards and Impacts:

- ✓ 5-10' breaking waves along the oceanfront, 3 to 6' along LI sound shoreline and Twin forks.
- ✓ Widespread ocean beach erosion and flooding. Areas of dune erosion and isolated washovers along oceanfront Mon into Tue high tides.

Timing:

- ✓ Flooding will likely start well before the Mon Night high tide and may remain well after.
- ✓ Additional minor to moderate flooding likely during Tuesday high tides. Highest threat of moderate for south shore bays of LI.

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 Flooding –Inundation Areas

Greatest threat areas for Moderate inundation (2-2 ½ ft AGL) during Mon/Mon Night high tides.
(Likely inundation areas of inundation are shaded in orange. Potential areas of inundation are shaded in Red)

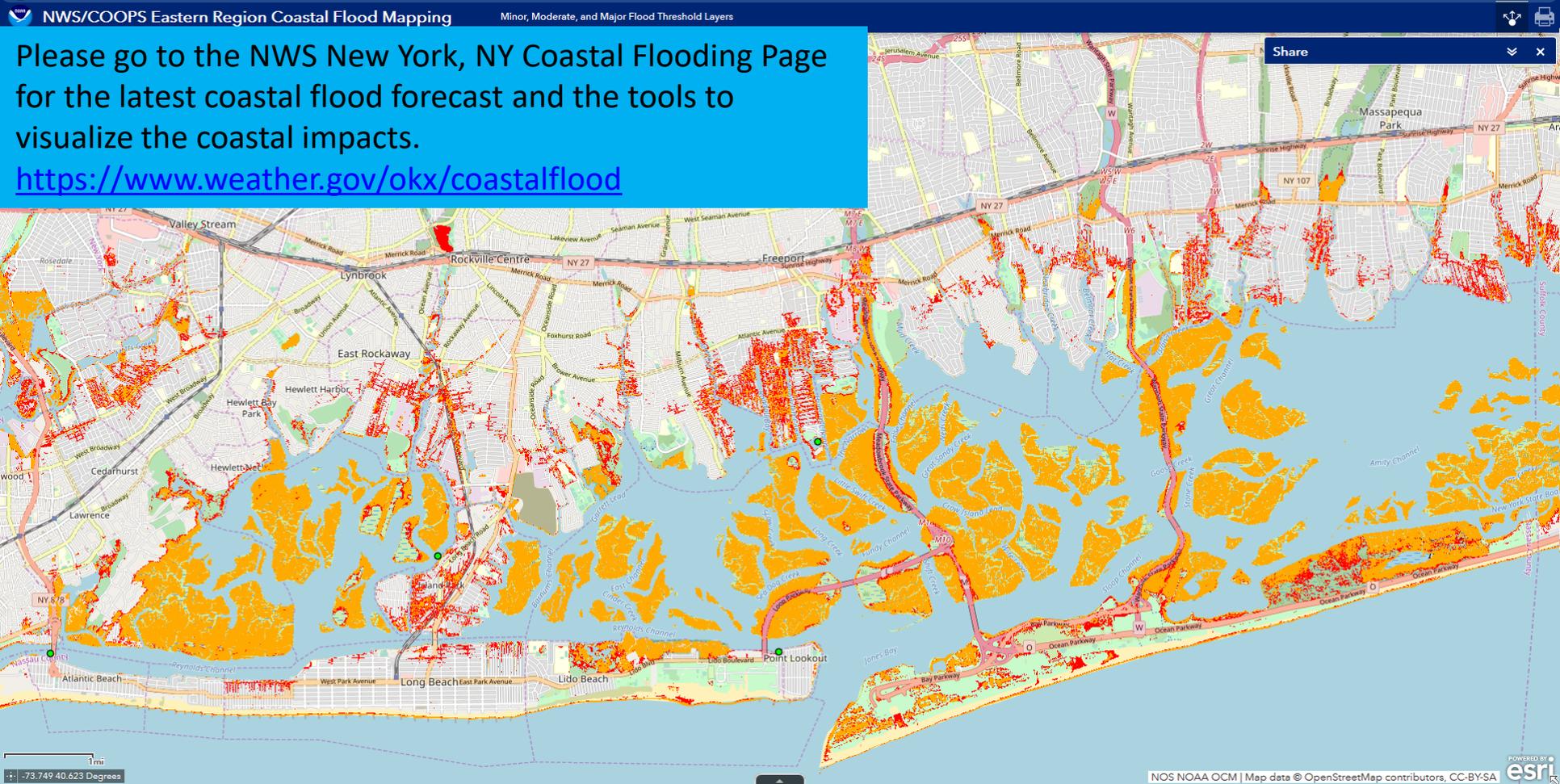


Coastal Flooding – Inundation Areas

Greatest threat areas for Moderate to possibly Major inundation (2-3 ft AGL) Mon/Mon Night high tides.
(Likely inundation areas of inundation are shaded in orange. Potential areas of inundation are shaded in Red)

NWS/COOPS Eastern Region Coastal Flood Mapping
 Minor, Moderate, and Major Flood Threshold Layers

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>

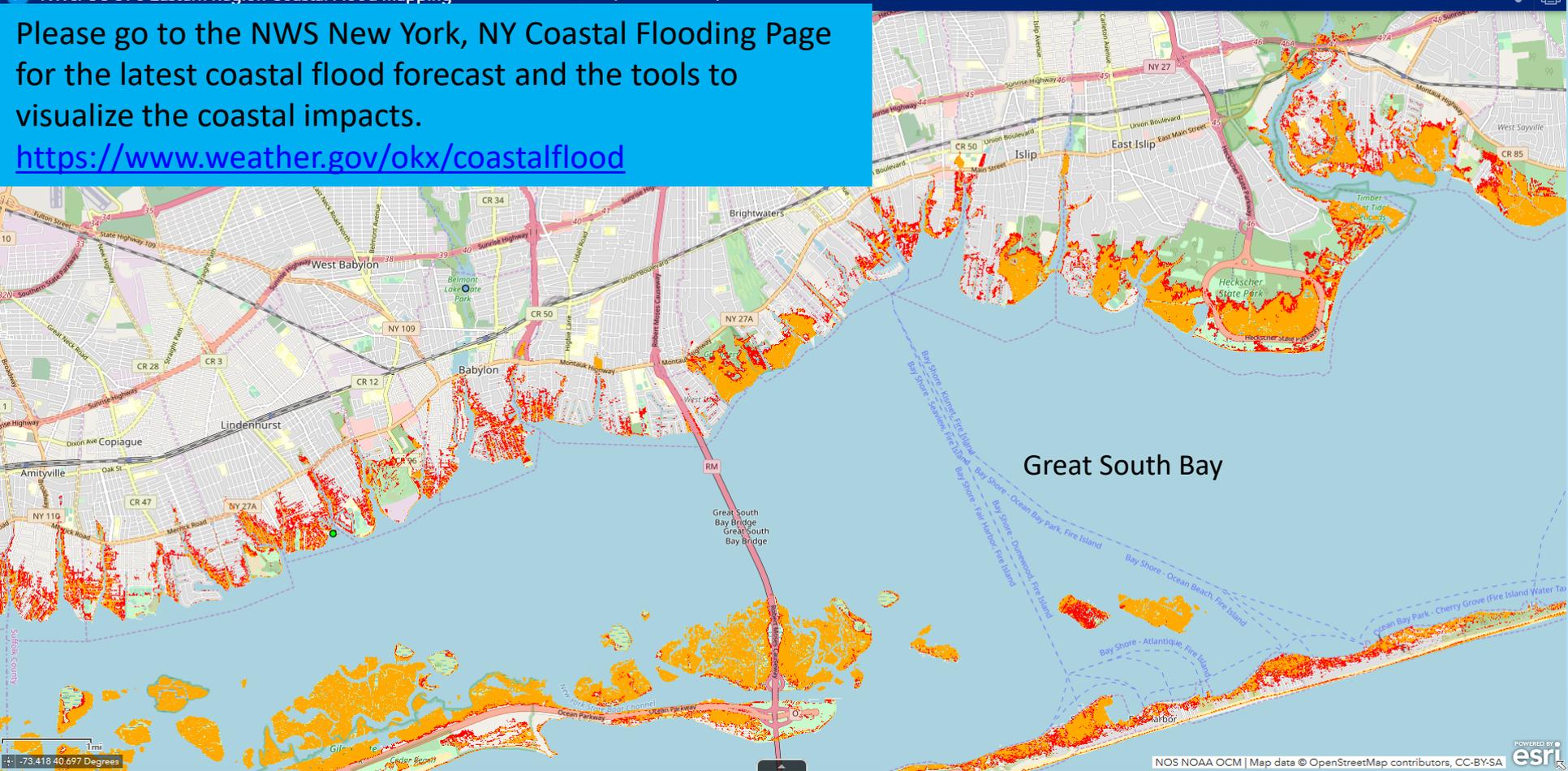


Coastal Flooding – Inundation Areas

Greatest threat areas for Moderate to possibly Major inundation (2-3 ft AGL) Mon/Mon Night high tides.
(Likely inundation areas of inundation are shaded in orange. Potential areas of inundation are shaded in Red)

NWS/COOPS Eastern Region Coastal Flood Mapping
Minor, Moderate, and Major Flood Threshold Layers

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>

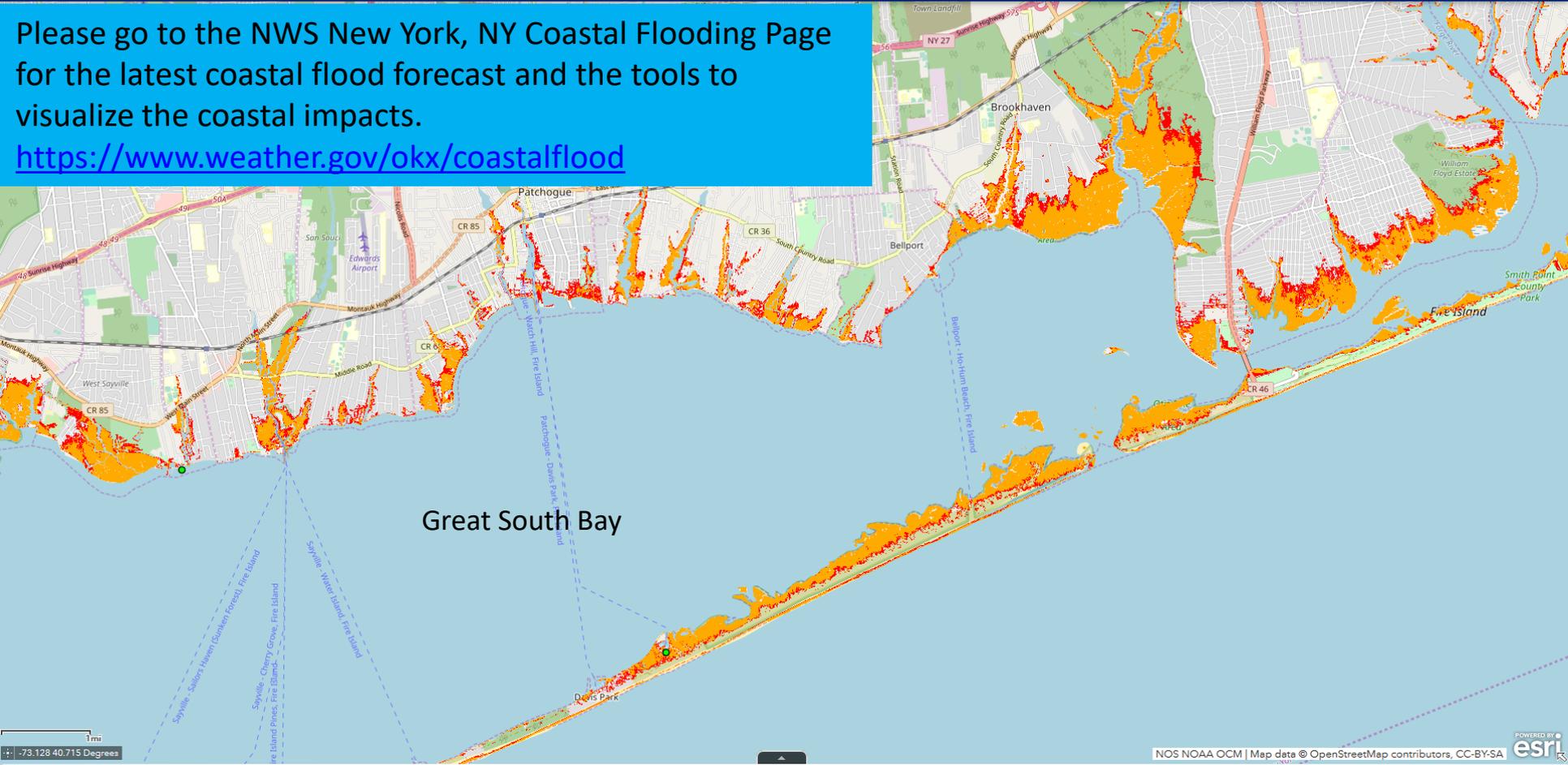


Coastal Flooding – Inundation Areas

Greatest threat areas for Moderate inundation (2-2 1/2 ft AGL) Mon/Mon Night high tides.

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

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 Flooding – Inundation Areas

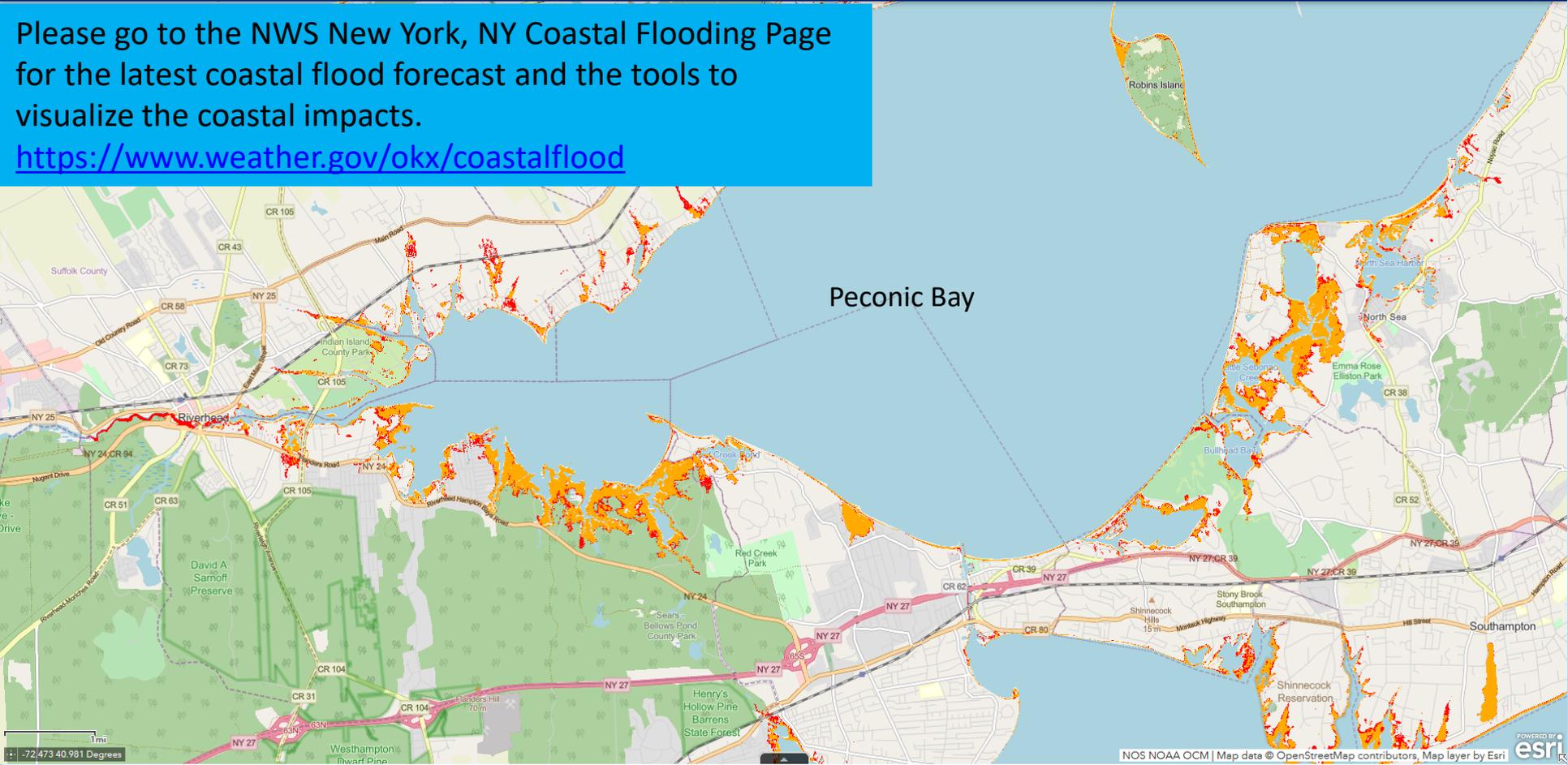
Greatest threat areas for Moderate to possibly Major inundation (2-3 ft AGL) Mon/Mon Night high tides.
(Likely inundation areas of inundation are shaded in orange. Potential areas of inundation are shaded in Red)

NWS/COOPS Eastern Region Coastal Flood Mapping

Minor, Moderate, and Major Flood Threshold Layers



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>





Event Summary

- ✓ **Winter Storm Warning in effect Tonight into Tuesday AM**
 - ✓ Heavy Snow (10-18") potential for Much of the Region
 - ✓ 1-3"/hr snowfall rates Monday/Monday Eve
 - ✓ Near blizzard conditions possible for coast
 - ✓ Lesser snow amounts possible for Southeast CT and Eastern LI
- ✓ **Strong Winds for the City/Coast**
 - ✓ 20-40 g 40-60mph Monday into Monday Night
- ✓ **Coastal Flood Warning in effect for LI and S Queens for Mon into Mon Night high tides**
 - ✓ Minor to locally moderate coastal flooding with Mon AM/early PM high tides
 - ✓ Minor to Moderate, locally Major coastal flood potential with Mon Night high tide
- ✓ **Gale Warning on ocean Sunday Night, Storm Warning Monday into Monday Night for most nearshore waters**



Contact and Next Briefing Information



Next Briefing
When: *Around 6 PM Sun*
Method: *Email*



Web:
<http://www.weather.gov/okx/>



Facebook:
<http://www.facebook.com/NWSNewYorkNY>



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<http://www.twitter.com/NWSNewYorkNY>



YouTube:
<https://www.youtube.com/user/NWSNewYorkNY>

Disclaimer: *The information contained within this briefing is time-sensitive, do not use after 6 PM Sunday (01/31/21).*