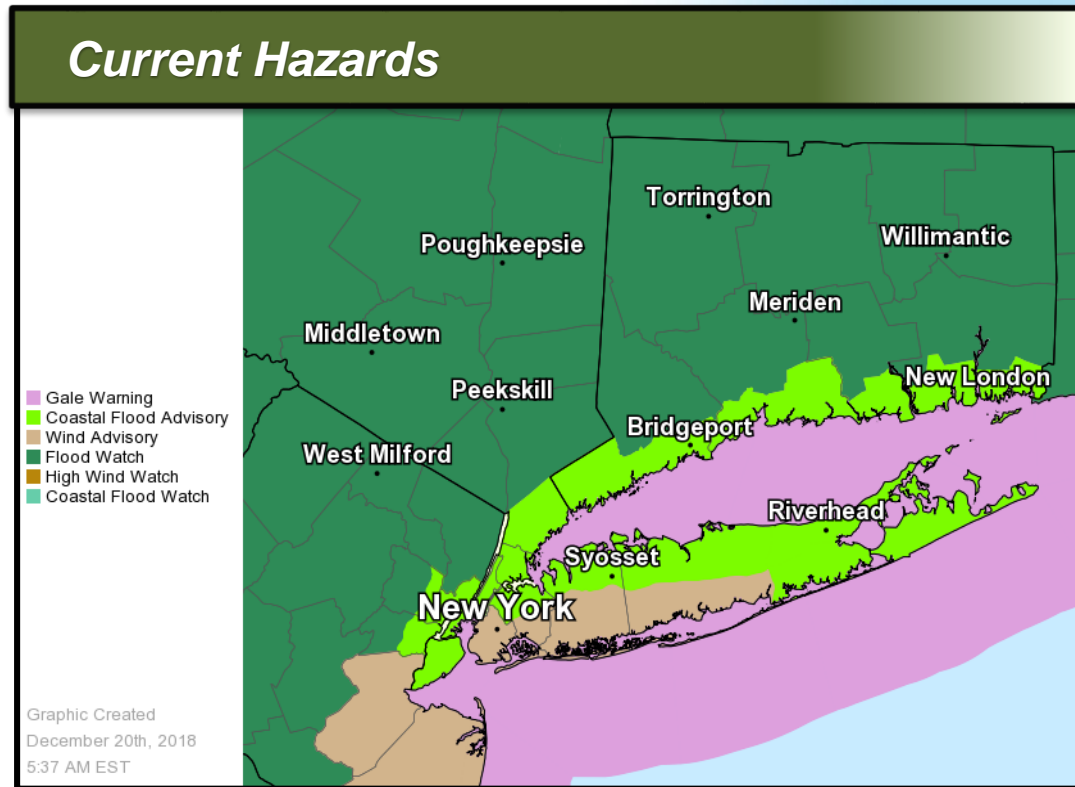





# Heavy Rain, Coastal Flooding, and Strong Winds Thu Night – Fri Night

**Decision Support Briefing #2**  
**As of: 5:00 AM Dec 20, 2018**



# Main Points

Hazard	Impacts	Location	Timing
<b>Flooding</b> 	<ul style="list-style-type: none"> <li>• 2 to 3 inches, locally higher amounts.</li> <li>• Flooding of Urban, low lying, and poor drainage areas</li> <li>• Minor Flooding of small streams and Creeks.</li> </ul>	<b>Entire Tri-State Region</b>	<b>Late tonight-Friday Night.</b> Heaviest rainfall expected after midnight tonight through 8 pm Friday.
<b>Coastal Impacts</b> 	<ul style="list-style-type: none"> <li>• Minor coastal flooding with locally moderate. Inundation of 1 to 2 ft, locally 3 ft above ground in vulnerable areas.</li> <li>• Potential dune erosion.</li> </ul>	<b>Vulnerable locales along NY/NJ Harbor, Jamaica Bay, S and E Bays of LI, and LI Sound</b>	<b>Friday morning high tide, potentially Saturday Morning high tide.</b>
<b>Strong Winds</b> 	<ul style="list-style-type: none"> <li>• 15 to 30 MPH with gusts to 40 to 45 MPH.</li> <li>• Isolated power outages.</li> <li>• Few downed trees and power lines.</li> </ul>	<b>Highest winds will occur near the coast</b>	<b>Late tonight into Friday evening.</b>

# Summary of Greatest Impacts



## Flooding: Entire Tri-State Region



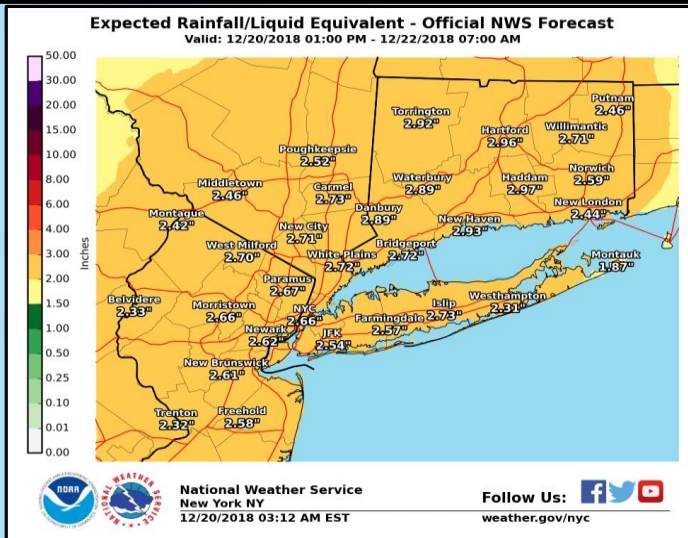
## Coastal Impacts: Vulnerable locales along NY/NJ Harbor, Jamaica Bay, S and E Bays of LI, and LI Sound



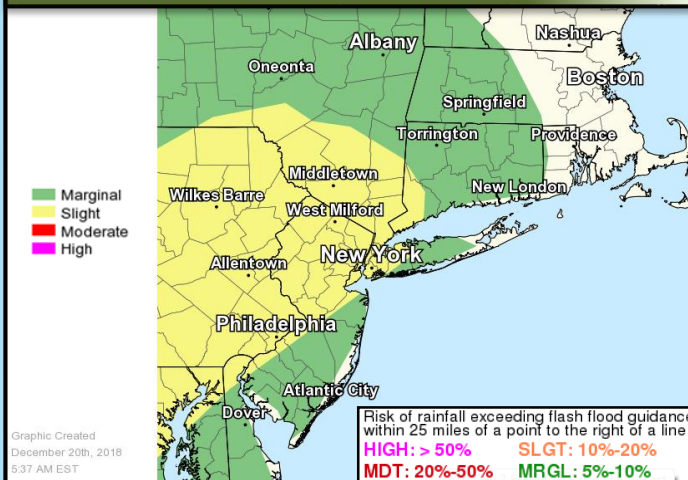
## Strong Winds: Highest winds near the coast



# Heavy Rain/Freshwater Flooding



## Day 1 - Excessive Rainfall Outlook



### Hazards:

- ✓ Rainfall of 2 to 3 inches with locally higher amounts
- ✓ Rainfall rates up to 1"/hr

### Impacts:

- ✓ Flooding of urban areas, low-lying roads, and poor drainage areas.
- ✓ Minor flooding along fast responding streams.
- ✓ Flooding could be exacerbated along the coast if heaviest rain coincides with Friday morning high tide.

### Timing:

- ✓ Heaviest rain from late tonight through late Friday night

### Uncertainty:

- ✓ Location and timing of heaviest rain bands will become more certain as event nears



# Coastal Flooding



## Coastal Flood Hazards and Impacts:

- ✓ Widespread minor coastal flooding with locally moderate coastal flooding
- ✓ Inundation of 1 to 2 ft above ground with locally 3 ft in vulnerable locales along
- ✓ Scattered waterfront road closures
- ✓ Minor damage to coastal properties

## Shoreline Hazards and Impacts:

- ✓ Dune Erosion possible
- ✓ Minor damage to shoreline/dune structures

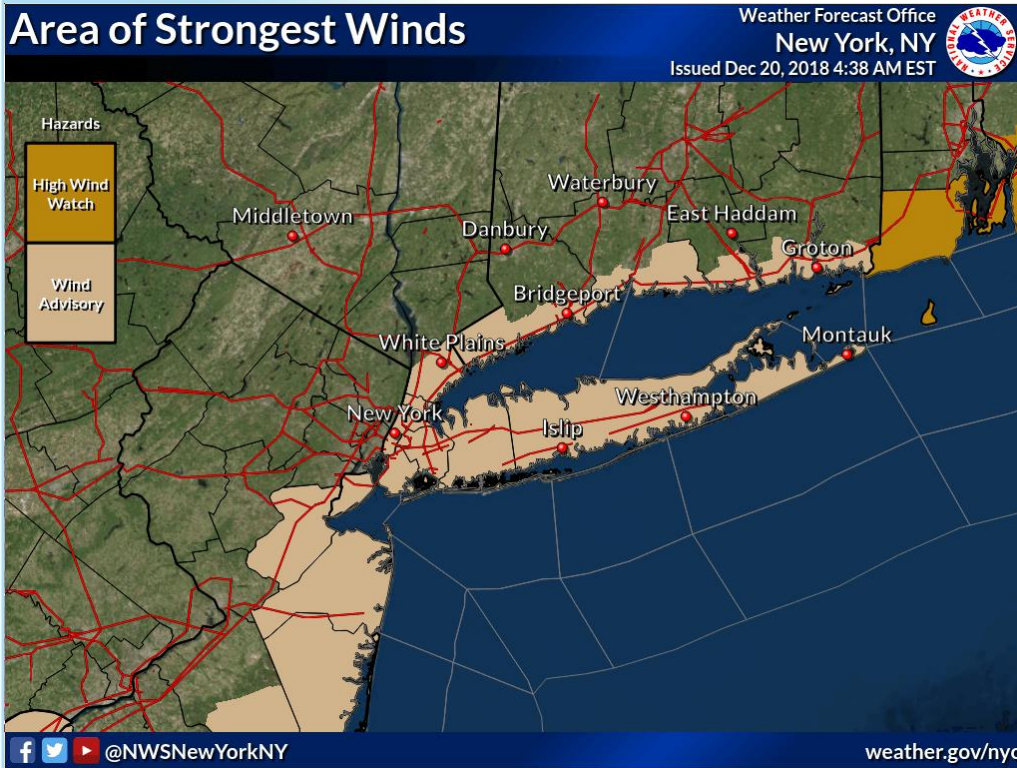
## Timing:

- ✓ During times of high tide Friday morning and possible Saturday morning

## Uncertainty:

- ✓ A coastal flood watch is in effect for the South Shore Bays of NYC and western Long Island, where moderate coastal flooding is possible.
- ✓ Coastal flood advisories elsewhere.

# Strong Winds



## Hazards:

- ✓ SE winds of 15 to 30 mph with gusts 40 to 45 mph, highest along the coast.

## Impacts:

- ✓ Isolated downed trees and tree limbs
- ✓ Isolated power outages.

## Timing:

- ✓ Strongest winds from late Thursday night through Friday evening.

## Uncertainty:

- ✓ Locally higher wind gusts are possible.
- ✓ Isolated thunderstorms could bring stronger wind gusts.

# Event Summary

- ✓ Heavy rain expected tonight into Friday night, with freshwater flooding possible.
- ✓ Potential for widespread minor to locally moderate coastal flooding during times of high tide Friday morning.
- ✓ Strong sustained winds of 15 to 30 mph with gusts 40 to 45 mph, especially along the coast, are possible late tonight into Friday evening. Isolated higher gusts may also occur in heavy rainfall.

