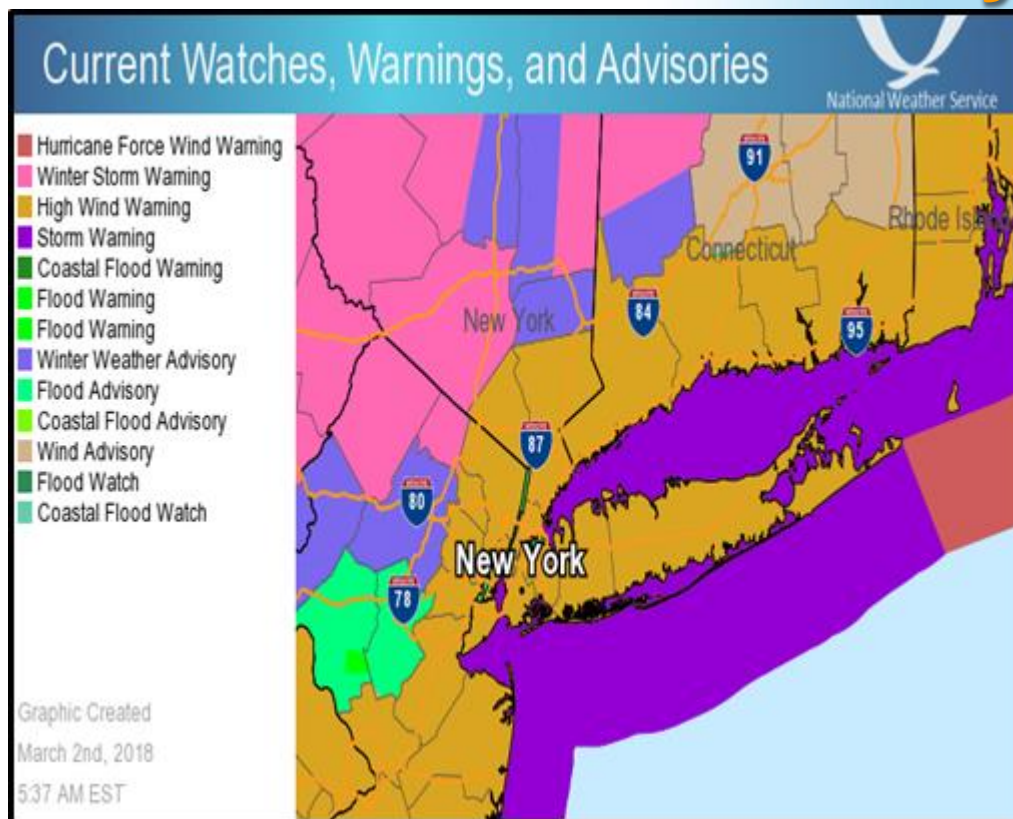


# Major Coastal Storm to continue to impact the Tri-State into this Saturday






**Decision Support Briefing #4**  
**As of: 600 AM Mar 2, 2018**

## What Has Changed?

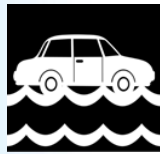
- ✓ *Winter Storm Warning Expanded to include Western Passaic County*
- ✓ *High Wind Warning Expanded to include all but Western Passaic, Orange and Putnam counties*
- ✓ *Coastal Flood Watch for NYC, Bronx and NY/NJ harbor including tidally affected riverine areas of NE NJ.*



# Main Points

Hazard	Impacts	Location	Timing
<b>Coastal Impacts</b> 	<ul style="list-style-type: none"> <li>Moderate to major coastal flooding</li> <li>Inundation of 2 to 3½ ft above ground in vulnerable areas</li> <li>Areas of dune erosion and localized overwashes</li> </ul>	Along/near Lower NY Harbor, LI Sound, and the Bays of Long Island, including Jamaica Bay. Highest threat S Queens/S Nassau	<b>High Tide Cycles through Saturday night</b>
<b>Marine</b> 	<ul style="list-style-type: none"> <li>Wind gusts of 50 to 60 kt</li> <li>Seas 8 to 16 ft, highest east of Fire Island Inlet</li> <li>Seas 3 to 6 ft on Long Island Sound</li> </ul>	<b>Waters Around Long Island</b>	<b>Through tonight</b>
<b>Damaging Winds</b> 	<ul style="list-style-type: none"> <li>25 to 40 gusts 50 to 70 MPH</li> <li>Power outages and downed trees are likely</li> </ul>	<b>NYC, Long Island, Coastal S CT and Northern New London County</b>	<b>Through tonight</b>
<b>Heavy Wet Snow</b> 	<ul style="list-style-type: none"> <li>4-7" locally up to 15 – Orange and Western Passaic County</li> <li>2-4" locally higher –/Putnam/N Fairfield</li> <li>Highest amounts elevations over 800 ft</li> <li>Damage to tree limbs and powerlines</li> </ul>	<b>Orange County NY and W Passaic/Putnam/N Fairfield Counties</b>	<b>Through tonight</b>
<b>Heavy Rain</b> 	<ul style="list-style-type: none"> <li>2 to 4 inches, localized higher amounts</li> <li>Poor drainage flooding already occurring. Small stream and river flooding possible</li> </ul>	<b>Most of the Region</b>	<b>Through tonight</b>

# Summary of Greatest Impacts



**Coastal Flooding for shorelines of LI and NY Harbor,  
Moderate Flooding for Southern parts of Nassau and Queens**



**Storm Force Winds: Waters Around Long Island**



**Damaging Winds: NYC, Long Island, Coastal S CT and  
Northern New London County**



**Heavy Snow: Orange County and Higher elevations of W  
Passaic, Putnam and N Fairfield Counties**



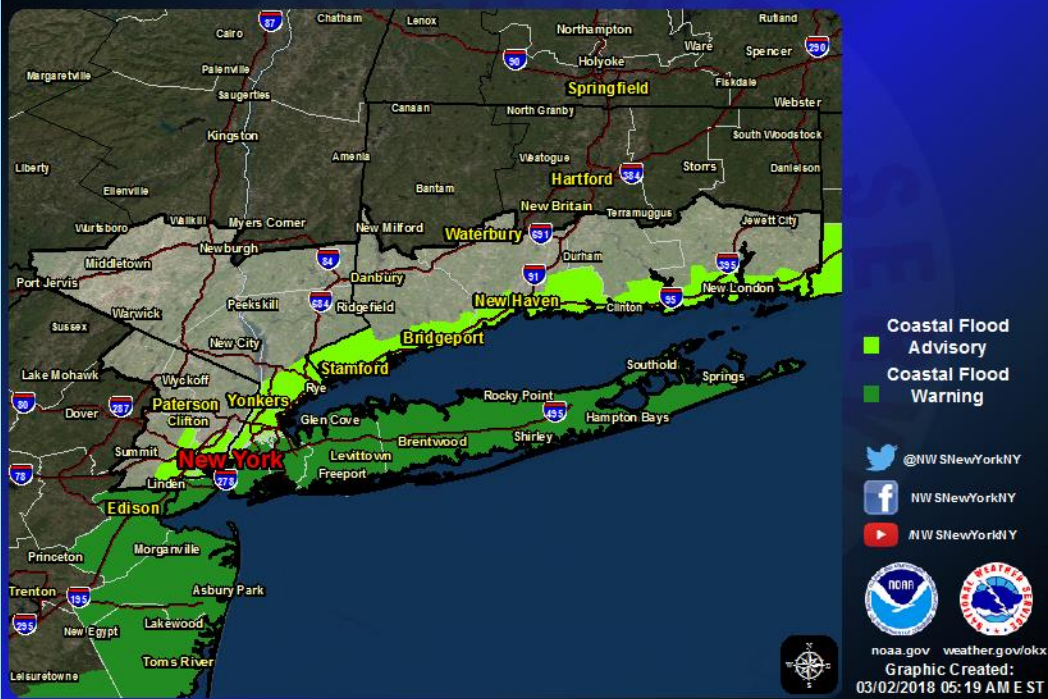
**Fresh Water Flooding: Much of the Region**



# Coastal Flooding

- **Minor to Moderate coastal flooding expected with this morning and tonight high tides.**
  - Inundation of 1 to 2 ft above ground in vulnerable areas, except 2 to 3 ft for the south shore bays of NYC/LI.
- **Widespread moderate to locally major coastal flooding is expected along the shores of Long Island and Jamaica Bay Saturday into Saturday Night with 2 ½ to 3 ½ ft of inundation. Elsewhere widespread minor to moderate flooding is expected, with 1 to 2 ft of inundation.**
- **Significant beach flooding and erosion. Areas of dune erosion and localized overwashes along the ocean beachfront through Monday.**

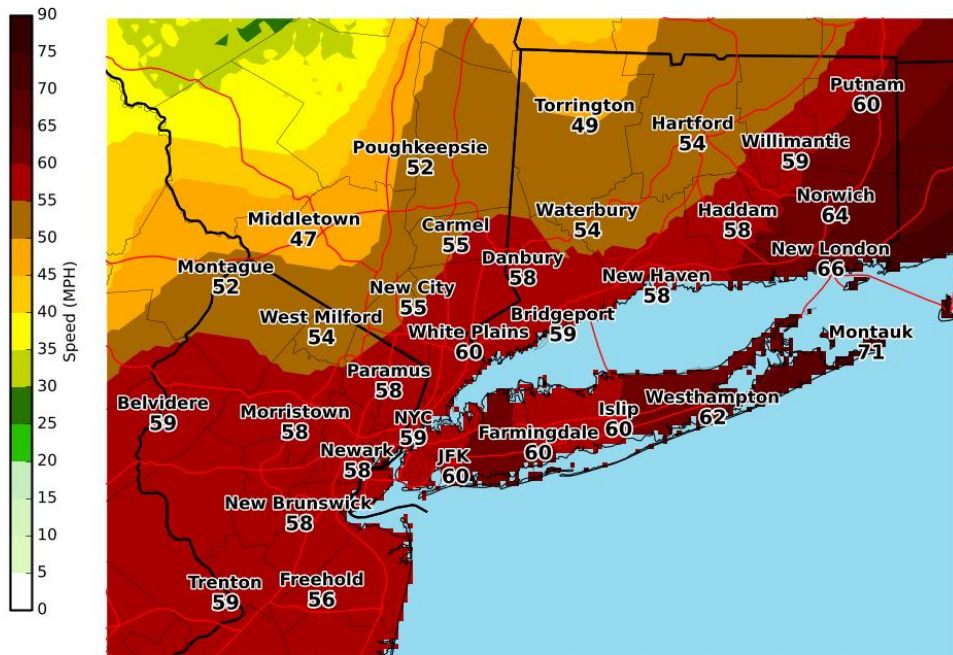
National Weather Service New York, NY  
Active Coastal Weather Hazards



# Strong to Damaging Winds

## Wind Gusts

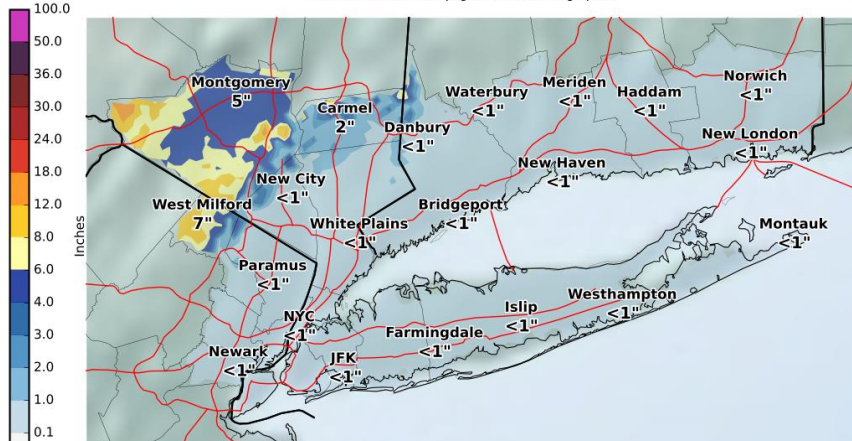
Valid: Friday, March 02, 2018 at 04 PM EST



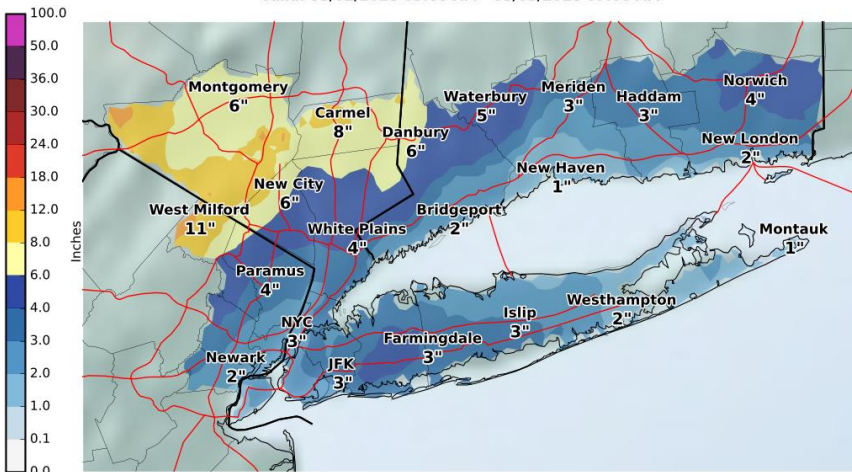
- Wind gusts 50 - 70 mph, highest eastern Long Island and southeastern CT
- Strongest winds this afternoon and tonight.
- Damaging winds will be capable of downing trees and power lines with resulting power outages.
- Travel difficult for high profile vehicles

# Heavy Wet Snow

**Expected Snowfall - Official NWS Forecast**  
Valid: 03/02/2018 03:00 AM - 03/03/2018 07:00 AM  
\*Please visit our winter page for full suite of graphics



**High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall**  
Valid: 03/02/2018 03:00 AM - 03/03/2018 07:00 AM



Expected Snowfall

High End Snowfall Possible

- **Orange/W. Passaic: 4 – 7”** locally up to 15” for Orange and up to 11 in W Passaic.
- **Putnam/N Fairfield Counties: 2-4”** locally higher for Highest snow at elevations above 800 ft
- **Coast-** Generally less than 1 inch snow expected over remainder of region. **However, potential for a period of heavy snow even to the coast, with potential of getting 2-4+”** of snow in these areas.
- Timing: Through tonight
- Difficult travel conditions
- Tree Damage and Power Outages likely

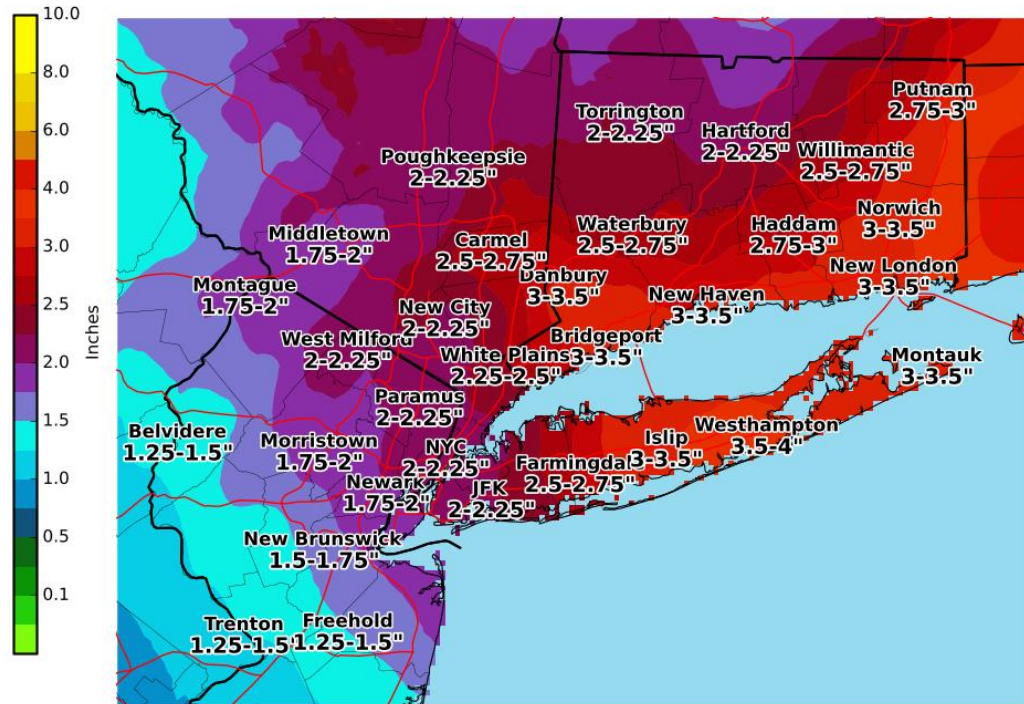


National Weather Service  
New York NY  
03/02/2018 03:23 AM EST

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weather.gov/nyc/winter

# Heavy Rain

**Expected Rainfall - Official NWS Forecast**  
Valid: 03/02/2018 01:00 AM - 03/03/2018 07:00 AM EST



- 2-4 inches total rain, with locally higher amounts
- Smaller rivers and streams will be most vulnerable to possibility of flooding
- Poor drainage urban flooding ongoing



# Forecast Uncertainty or Scenarios

- ✓ **Magnitude of the Coastal Flooding Saturday into Saturday night dependent on track and intensity of the low**
  - ✓ Will be predicated on proximity of low pressure to the coast and how quickly it moves away
- ✓ **A more rapid intensification may turn rain over to snow in higher terrain of NE NJ, the lower Hudson Valley and interior SW CT quicker**
  - ✓ Snow amounts could be several inches higher than forecast in this case
- ✓ **Potential for a period of accumulating heavy wet snow all the way to coast this afternoon and/or tonight.**
  - ✓ If this occurs, snow amounts of 2 to 4 inches+ possible





## Event Summary

- **5 Main Impacts**
  - Prolonged minor to moderate coastal flooding threat. Locally major for southern bays of LI.
  - Damaging winds, especially for Eastern Long Island and Southeast CT
  - Heavy rain across much of the region
  - Accumulating heavy snow north and west of New York City. Highest amounts over Orange County and elevations above 800 ft.
  - Dangerous Conditions for Mariners over all waters around Long Island
- **High Wind Threat:** 50 – 70 mph gusts. Downed trees and wires with power outages
- **Several tidal cycles of Minor to Moderate Coastal Flooding:** Highest threat will be along Atlantic Coast, Southern Bays of Long Island and Queens, and Twin Forks of LI. Locally major for southern bays of LI.
- **Freshwater Flood Threat:** Flooding of poor drainage and urban areas, as well as smaller rivers and streams flooding

