



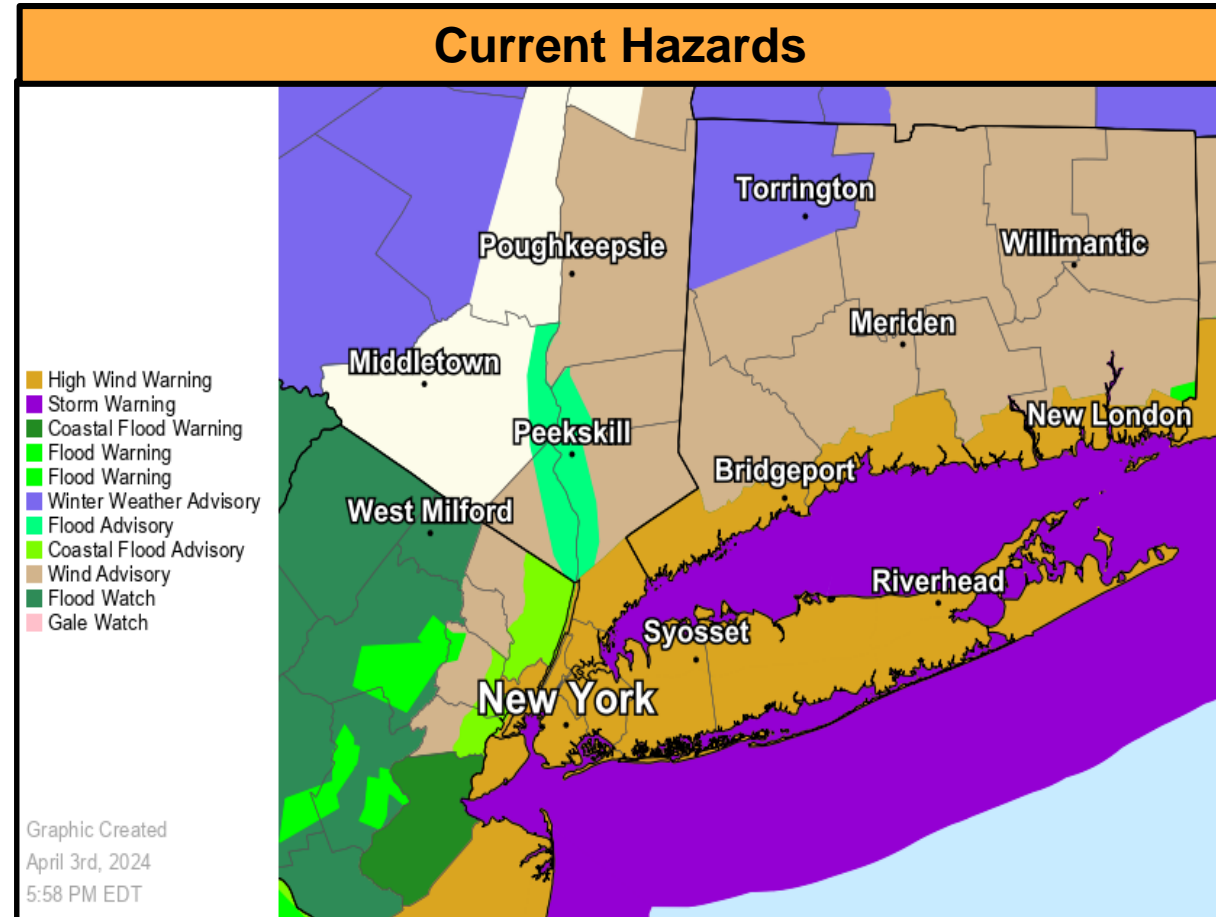
Major Storm System into Tomorrow Morning

April 3, 2024
5:59 PM

Decision Support Briefing #3

...What Changed?...

- Coastal Flood Watch has been upgraded to a Coastal Flood Warning for SE CT for Thu AM
- No other significant changes to the forecast





Key Messages...

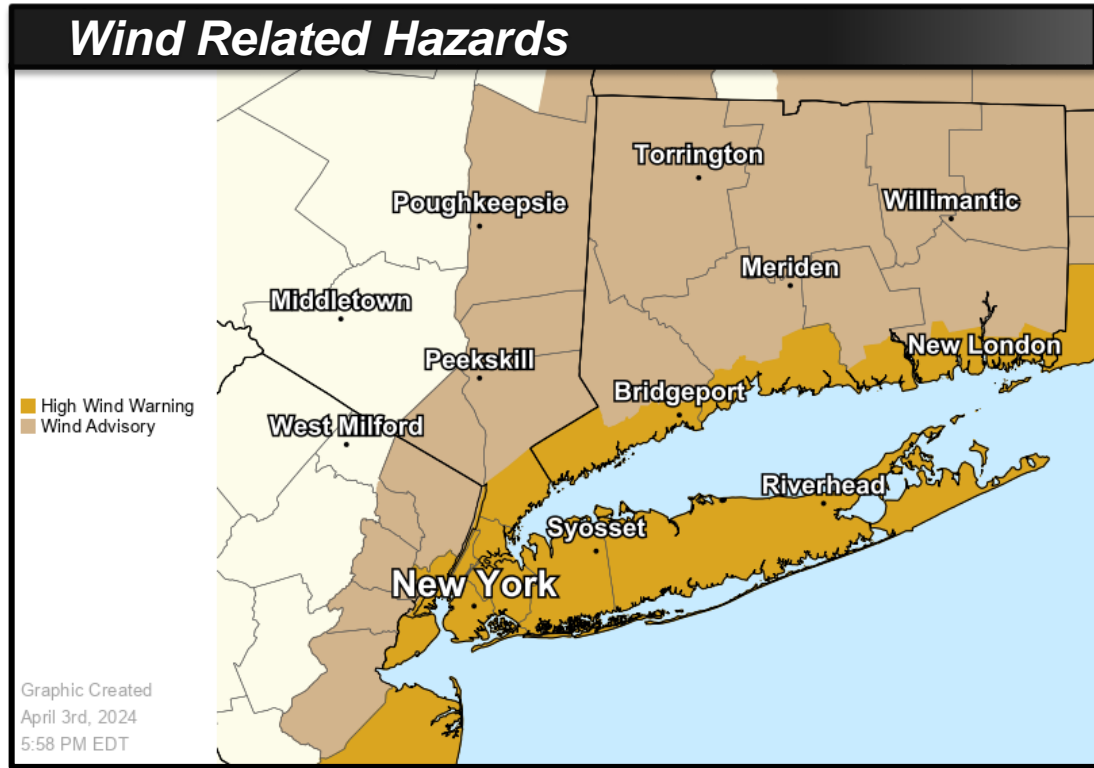
- ✓ **Strong to damaging winds expected through early Thu AM, with gusts up to 60 mph expected along the coast.**
- ✓ **Additional 1 to 1 1/2 inches of rainfall, locally 2" through late tonight. Widespread minor urban, poor drainage and riverine flooding into Thu AM, with a localized flash flood threat through this evening.**
- ✓ **Widespread coastal flooding threat during this evening and early Thu AM high tides. Locally major flooding (3+ ft of inundation above ground) possible for vulnerable communities along the southern and eastern bays of Long Island with the early Thu AM high tide.**
- ✓ **Scattered areas of dune erosion and localized overwashes likely during the times of high tide this evening into Thu AM. Significant beach erosion and flooding expected.**
- ✓ **Storm conditions on all waters through tonight.**
- ✓ **A light accumulation of sleet and snow possible for higher terrain of Orange County late tonight into Thu AM.**



Strong to Damaging Winds into Tonight

April 3, 2024
5:59 PM

Decision Support Briefing #3



Hazards and Impacts:

✓ Hazards:

- ✓ **High Wind Warning continues** for Long Island, NYC/NJ metro, and Coastal Westchester and CT
- ✓ **Wind Advisory continues** for interior portions of NE NJ, LoHud, and S CT.
- ✓ Storm Warnings for all waters through tonight.

✓ Peak Winds:

- ✓ **Along the Coast, including NYC:** Easterly winds 30-40 mph with gusts to 60 mph through around 2am.
 - ✓ **Impacts:** Damaging winds will blow down numerous tree limbs, as well as scattered trees and power lines. Power outages likely. Travel will be difficult, especially for high profile vehicles.
- ✓ **Across Interior:** Easterly winds 20-30 mph with gusts to 55 mph for the interior through around 2am.
 - ✓ **Impacts:** Strong winds will blow down scattered tree limbs, as well as a few trees and power lines could be downed.

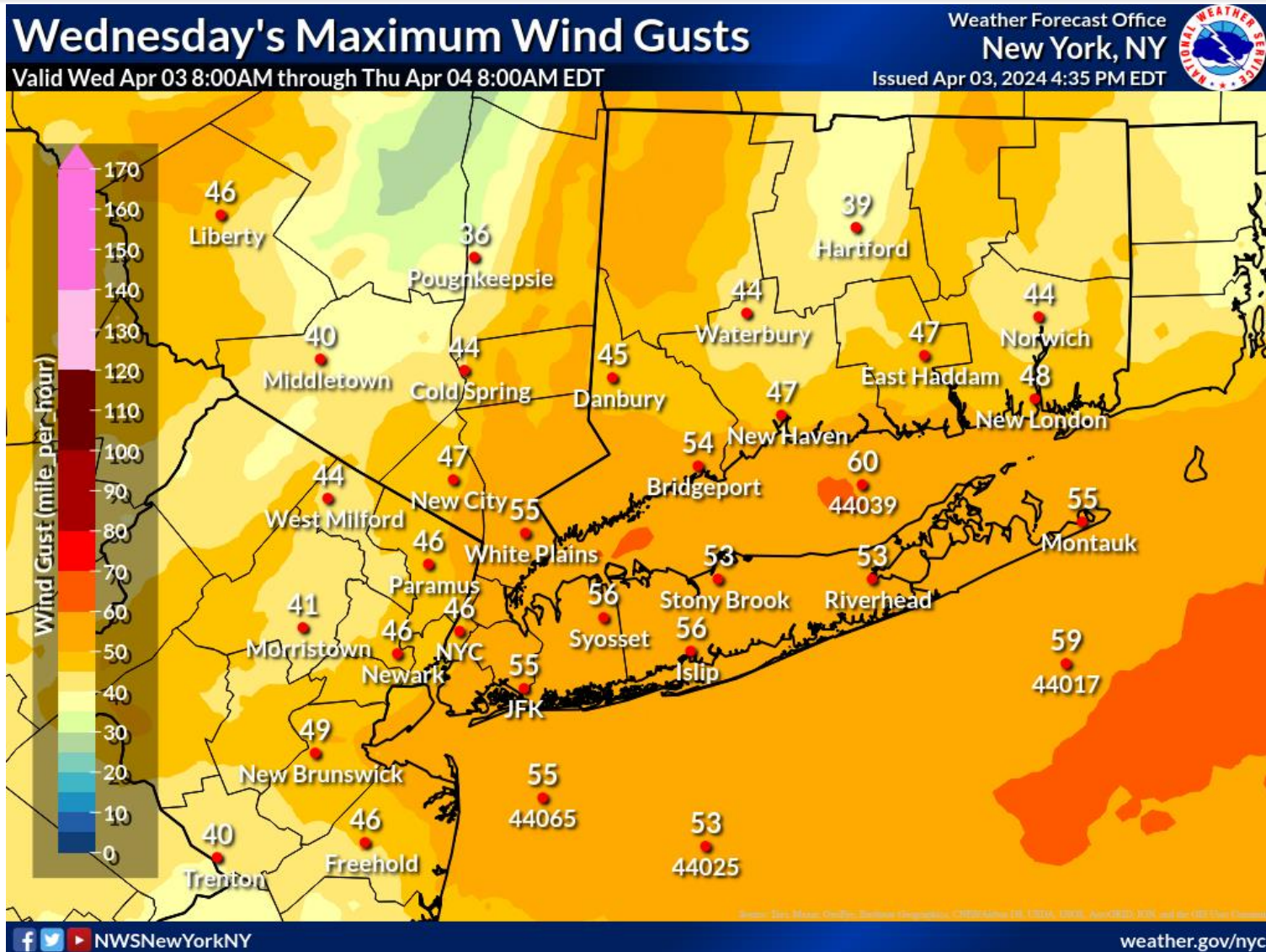
- ✓ **Timing:** Winds will gradually subside after 2am before shifting northwest Thu AM.



Maximum Wind Gust Forecast thru Tonight

April 3, 2024
5:59 PM

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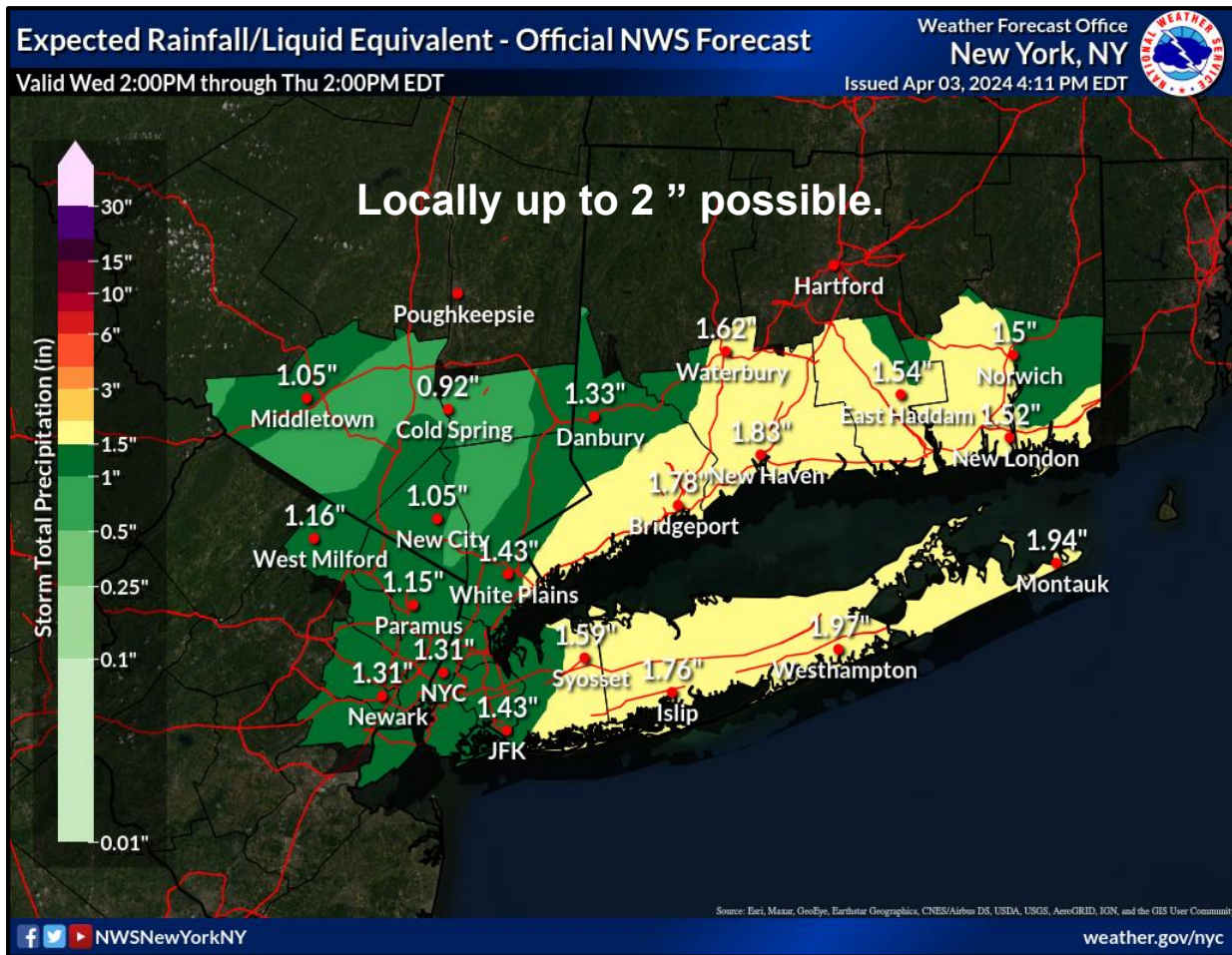




Heavy Rain and Flood Potential into Tonight

April 3, 2024
5:59 PM

Decision Support Briefing #3



Hazards:

- ✓ **Additional Rainfall:** 1 to 1 ½", locally up to 2". Highest across LI and S CT.
- ✓ **Rainfall Rates:** 1/4" to 1/2"/hr rates at times. Potential for brief and localized 1/2" to 1"/hr rates this evening with heavy downpours and possible embedded thunderstorms.

Impacts:

- ✓ **Urban/Poor Drainage Flooding:** Widespread minor flooding of urban, poor drainage, and low-lying areas is likely. Localized flash flooding threat of shoreline and riverine roads this afternoon/evening with combined heavy rainfall, runoff and high tides.
- ✓ **River Flooding:** Minor flooding likely along several quick responding small rivers and streams across NE NJ, Rockland and Westchester NY, and S CT. Minimal or no property damage, but possibly some public threat (e.g., inundation of roads). Low and isolated probability (< 20%) for moderate river flooding at this time.

Timing:

- ✓ Moderate to heavy this evening tapers off early Thursday morning.





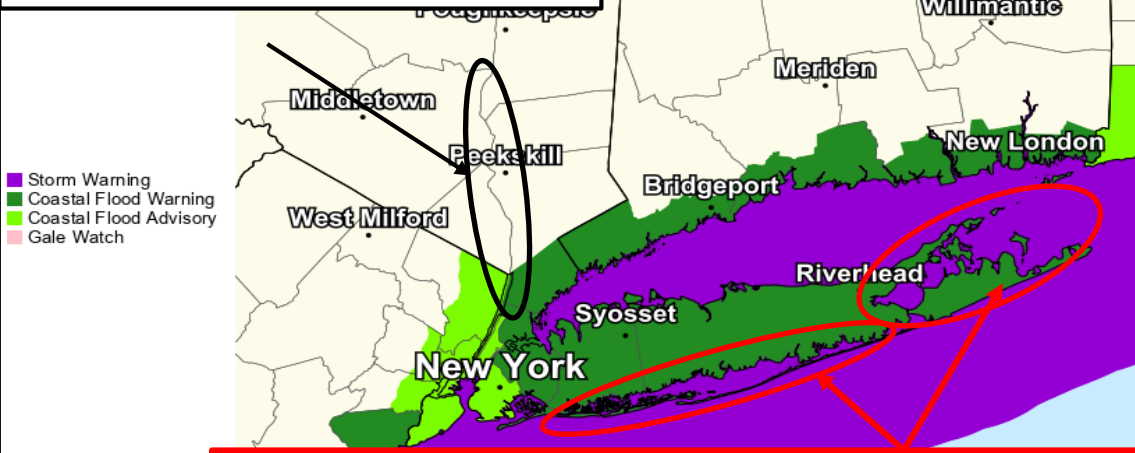
Widespread Moderate Coastal Flooding into Thursday AM

April 3, 2024
5:59 PM

Decision Support Briefing #3

Marine / Coastal Hazards

Minor to locally moderate surge impacts likely up the Hudson Thu AM, as well as other tidally affected rivers.



Graphic Created
April 3rd, 2024
5:58 PM EDT

Localized major coastal flooding possible during early Thu AM high tide (inundation of 3+ ft above ground level).

For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential inundation map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)

Coastal Flood Hazards and Impacts:

- **Great South Bay and Twin Forks communities (Coastal Flood Warning)**- Widespread moderate coastal flooding (2 to 3 ft inundation above ground) expected during both this aft/eve and early Thu AM high tides. **Localized major flooding (3+ ft inundation above ground) during the early Thu AM high tide.**
- **Western LI Sound communities (Coastal Flood Warning)** - Moderate coastal flooding (2 to 2 ½ ft inundation above ground) expected during this aft/eve and early Thu AM high tides.
- **Rest of the coast, including tidally affected rivers of NE NJ and LoHud:** Widespread minor coastal flooding (1-2 ft inundation above ground) likely during both this aft/eve high tide, with widespread minor to moderate flooding likely for the early Thu AM high tides.

Shoreline Hazards and Impacts:

- **Oceanfront** – 6 to 10 ft of breaking surf will cause scattered dune erosion and localized overwashes during the times of high tide this aft into Thu AM. Widespread beach flooding and erosion are expected as well.
- **Western Long Island Sound and Twin Forks of LI** – **Breaking waves of 3 to 6 ft during this evening high tide will result in beach erosion and localized damage to shoreline structures. Wave splashover may locally exacerbate flooding of shoreline roads and properties.**

Forecast Challenges:




- The combination of heavy rain and elevated water levels this afternoon into evening may cause localized flash flooding along some shoreline roads and properties.
- The coverage and magnitude of flooding late tonight into early Thursday AM will be dependent on track of low pressure, and timing of easterly gales diminishing and switching to the northwest. A slight upward safety margin has been applied to forecast water levels to account for this uncertainty.





Coastal Flooding Thresholds



	Minor (CF Advisory)	Moderate (CF Warning)	Major (Warning)
Picture	 Westport	 Lindenhurst	 New Haven
Hazard	<ul style="list-style-type: none"> • Low threat of property damage...and no direct threat to life. • 1 to 2 ft of inundation in shoreline and vulnerable areas. 	<ul style="list-style-type: none"> • Elevated threat of property damage...with a risk to life if one places themselves in unnecessary danger. • 2 to 3 ft of inundation in shoreline and vulnerable areas. • Minor to no inundation of surrounding coastal communities. 	<ul style="list-style-type: none"> • Significant threat to life and property. • 3-5+ ft of inundation in shoreline and other vulnerable areas. • Minor to moderate inundation (1 to 3 ft) of surrounding coastal communities that rarely experience coastal flooding.
Impact	<ul style="list-style-type: none"> • A few shoreline and vulnerable roadways and adjacent properties will experience shallow flooding. 	<ul style="list-style-type: none"> • Several shoreline and vulnerable area home and businesses will experience water inside. • Several low-lying coastal and shoreline roads will be closed. • A few cars may take on water or even be destroyed. 	<ul style="list-style-type: none"> • Evacuations will be necessary for the most vulnerable shoreline and coastal areas. • Many coastal communities will experience damage...with some shoreline and flood prone homes and businesses being destroyed. • Many cars will likely be submerged or washed away. • Several sections of nearshore roads and escape routes will be impassable and a few could be washed out. • Flood waters may extend well inland in low lying areas.





Coastal Flooding

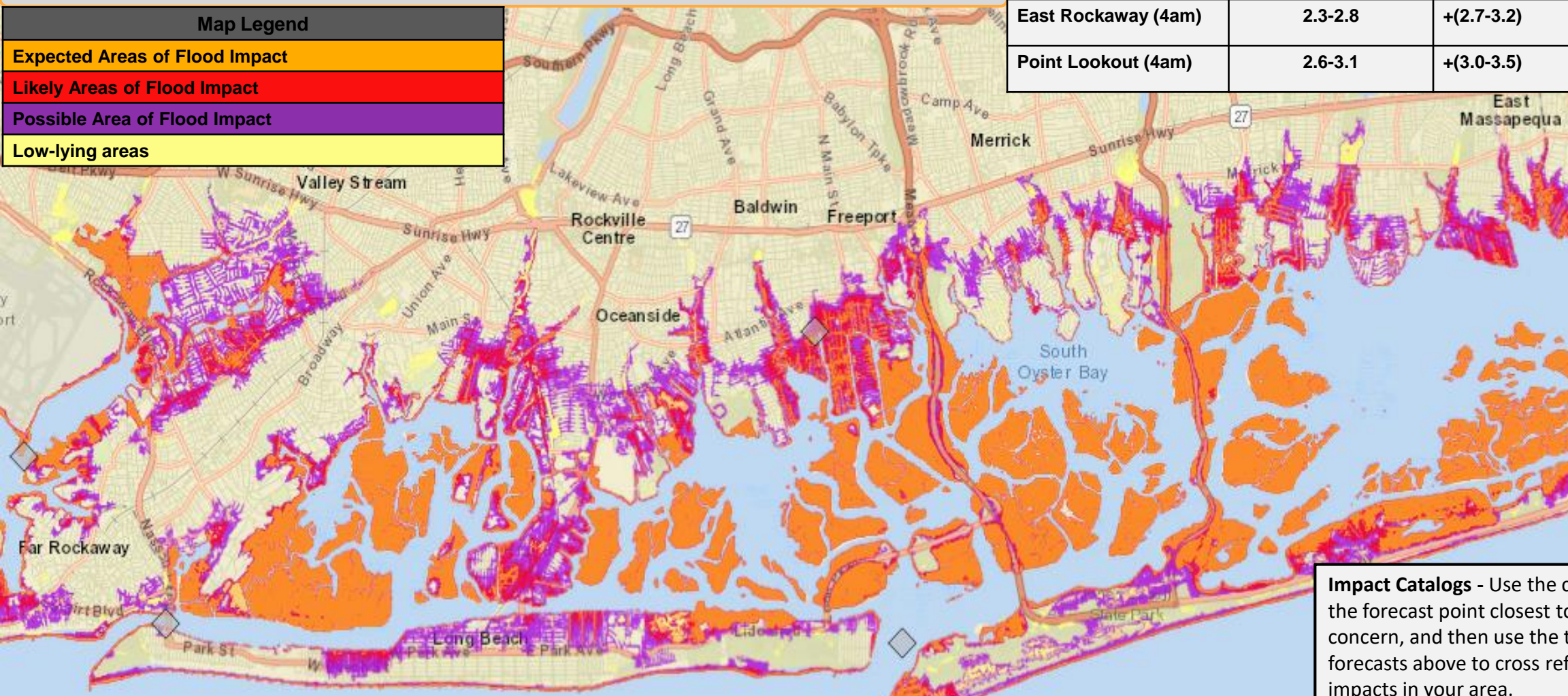
April 3, 2024
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Potential Major Flood Impact Areas Thu am

The map below shows the potential extent of flood impact (water above ground) during the late tonight/Thu AM high tides. Flooding may be as deep as 2 to 3 ft in spots.

Forecast Location (High tide Time)	Peak Water Level (ft) (MHHW)	Departure at high tide (ft)	Flood Impact
Freeport (5am)	2.6-3.1	+(3.9-4.4)	Major
East Rockaway (4am)	2.3-2.8	+(2.7-3.2)	Moderate
Point Lookout (4am)	2.6-3.1	+(3.0-3.5)	Mod-Maj

Map Legend
Expected Areas of Flood Impact
Likely Areas of Flood Impact
Possible Area of Flood Impact
Low-lying areas



Impact Catalogs - Use the catalog below for the forecast point closest to your area of concern, and then use the total water level forecasts above to cross reference potential impacts in your area.

- [Freeport](#)
- [East Rockaway](#)
- [Point Lookout](#)

For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential flood impact map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)



Coastal Flooding

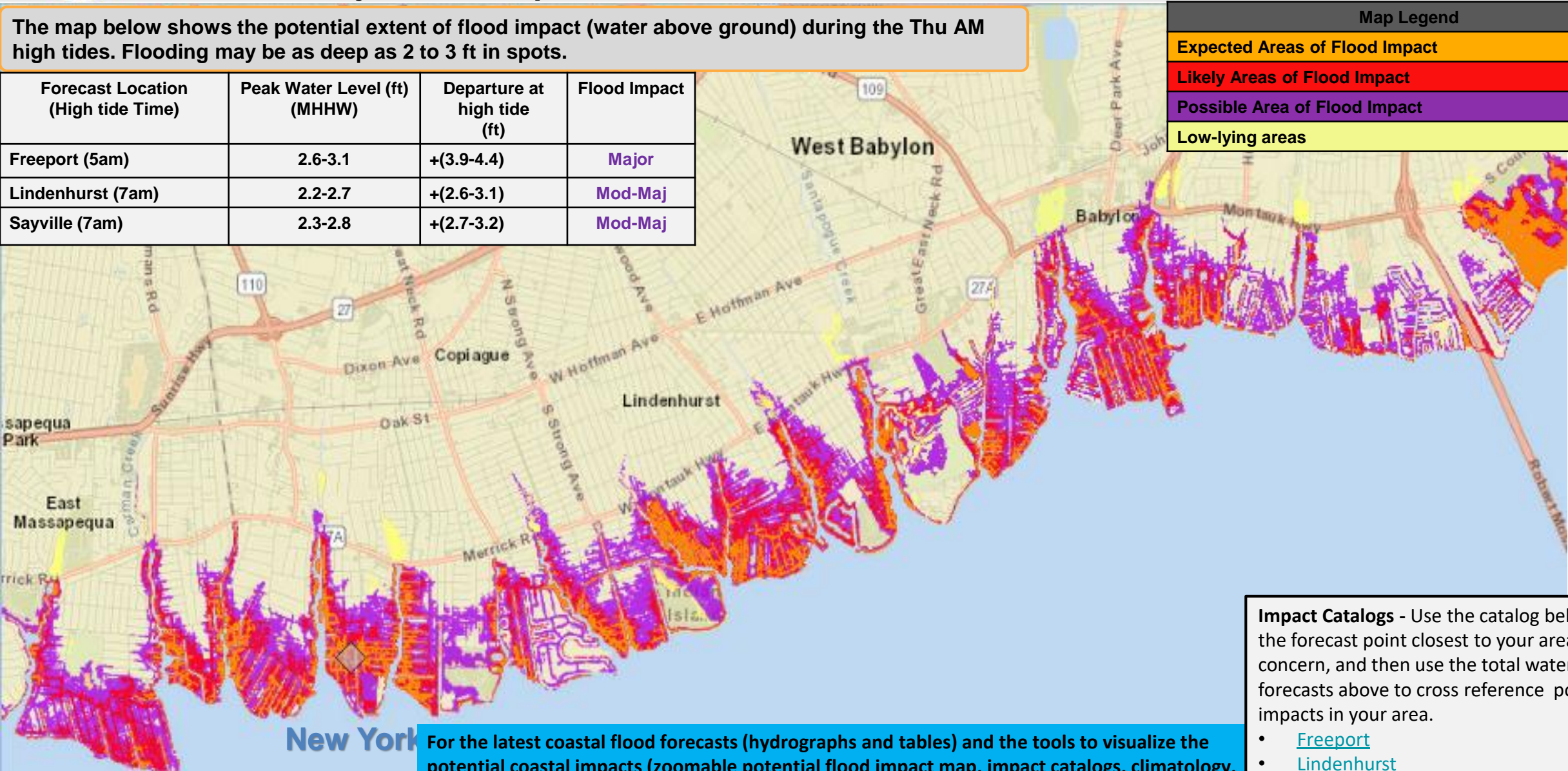
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Freeport (5am)	2.6-3.1	+(3.9-4.4)	Major
Lindenhurst (7am)	2.2-2.7	+(2.6-3.1)	Mod-Maj
Sayville (7am)	2.3-2.8	+(2.7-3.2)	Mod-Maj

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- [Freeport](#)
- [Lindenhurst](#)
- [Watch Hill](#)

New York For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential flood impact map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)



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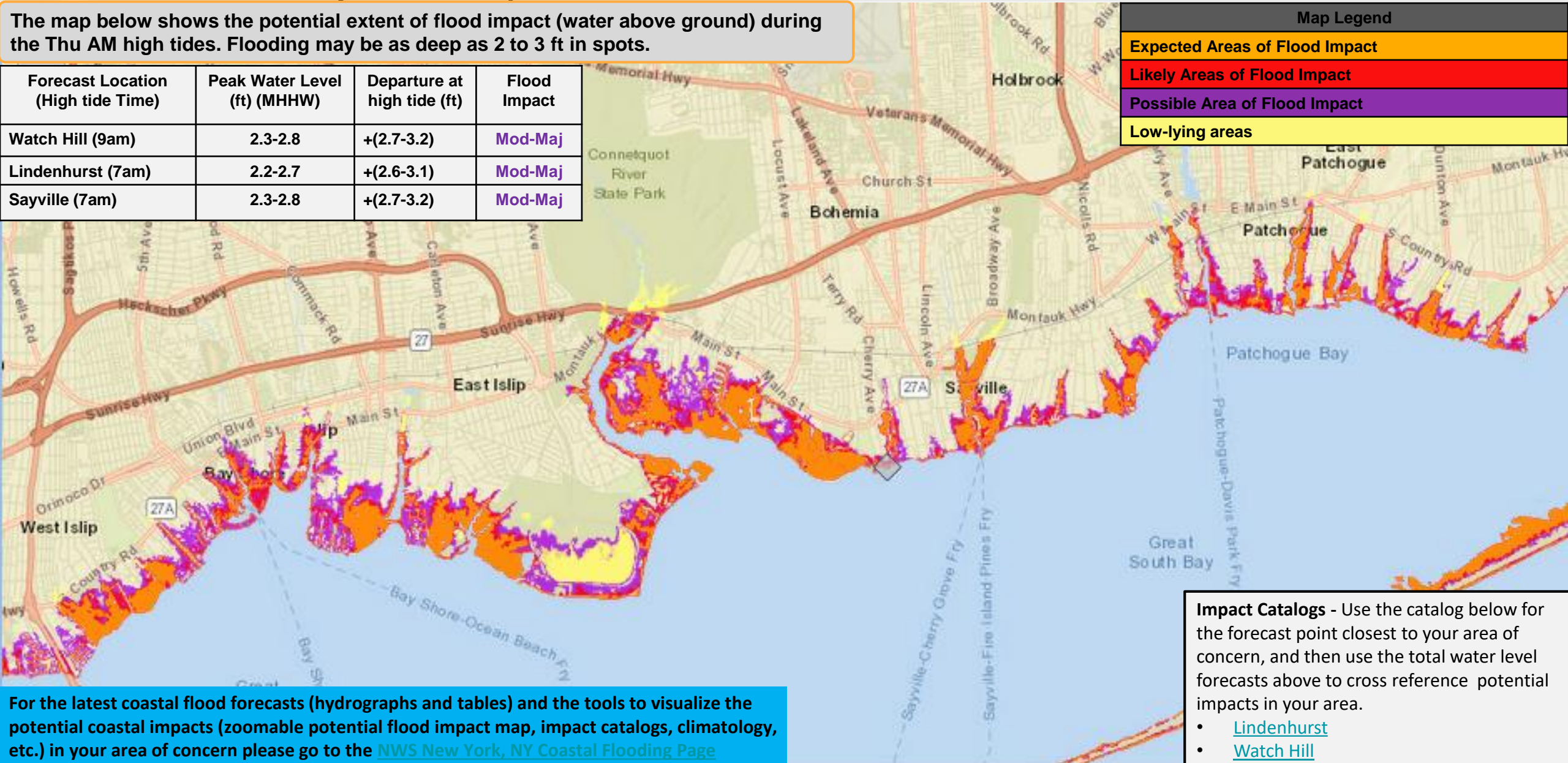
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Forecast Location (High tide Time)	Peak Water Level (ft) (MHHW)	Departure at high tide (ft)	Flood Impact
Watch Hill (9am)	2.3-2.8	+(2.7-3.2)	Mod-Maj
Lindenhurst (7am)	2.2-2.7	+(2.6-3.1)	Mod-Maj
Sayville (7am)	2.3-2.8	+(2.7-3.2)	Mod-Maj

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- [Lindenhurst](#)
- [Watch Hill](#)

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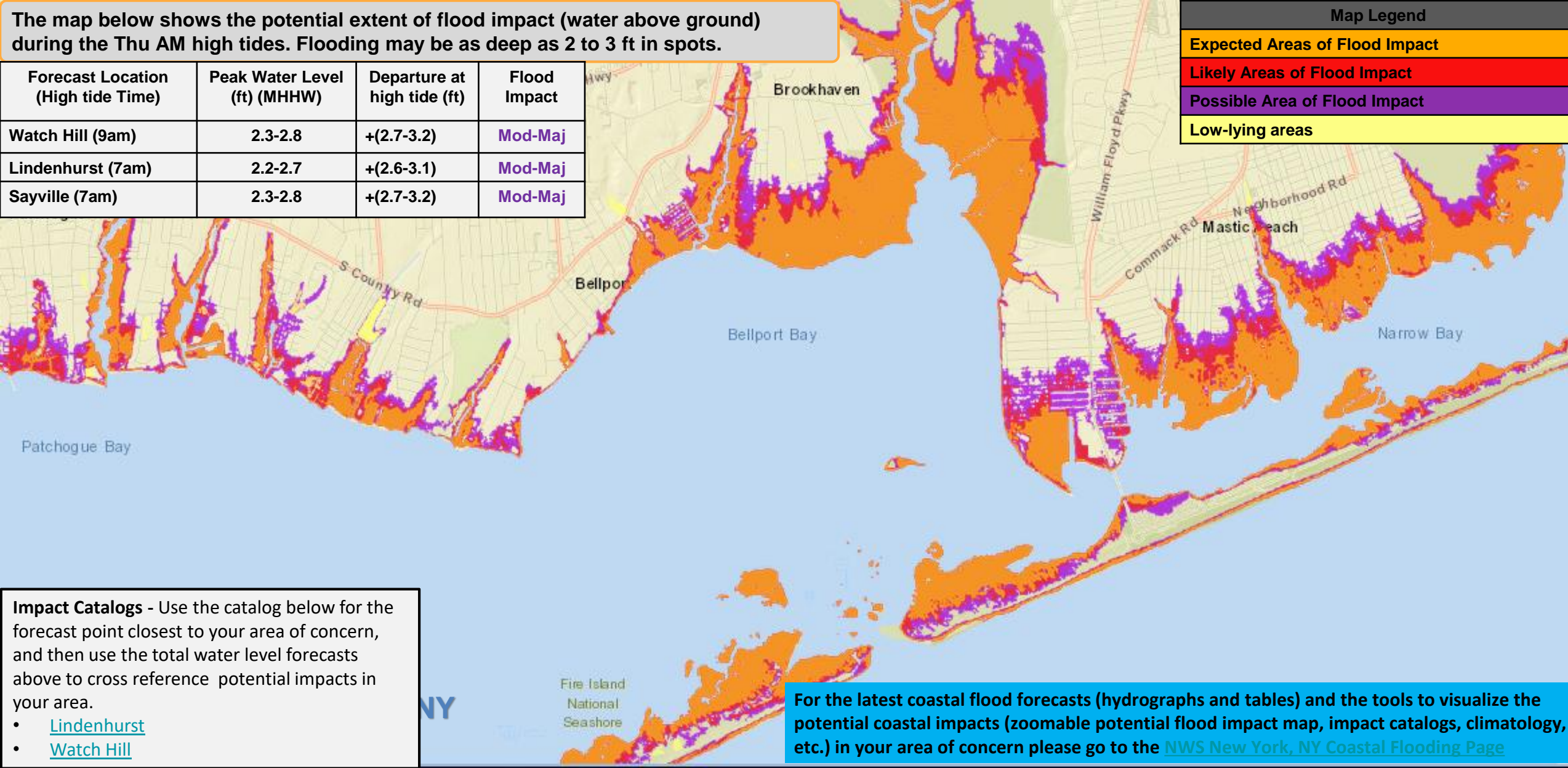
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- [Watch Hill](#)

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Coastal Flooding

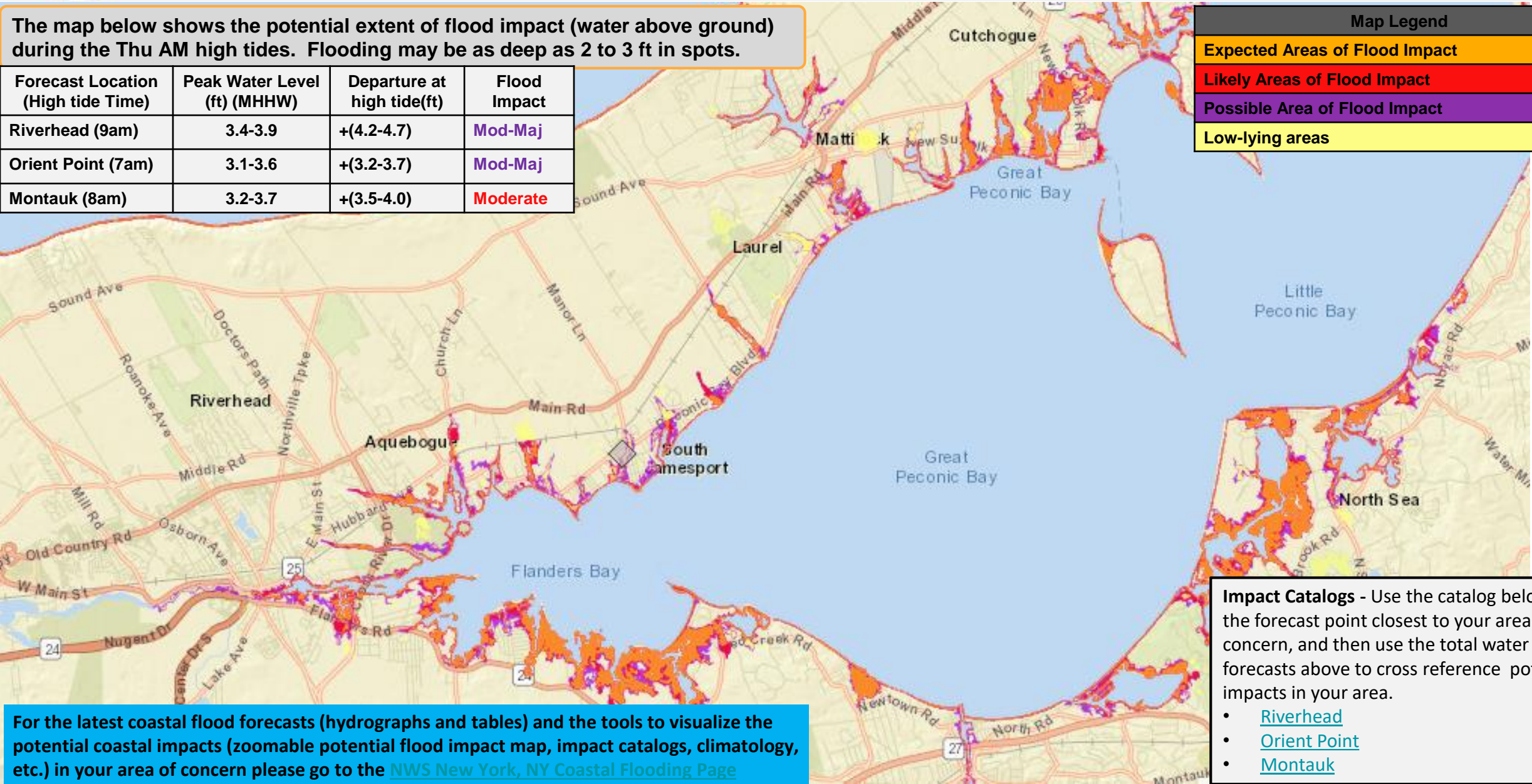
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Riverhead (9am)	3.4-3.9	+(4.2-4.7)	Mod-Maj
Orient Point (7am)	3.1-3.6	+(3.2-3.7)	Mod-Maj
Montauk (8am)	3.2-3.7	+(3.5-4.0)	Moderate

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Impact Catalogs - Use the catalog below for the forecast point closest to your area of concern, and then use the total water level forecasts above to cross reference potential impacts in your area.

- [Riverhead](#)
- [Orient Point](#)
- [Montauk](#)

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