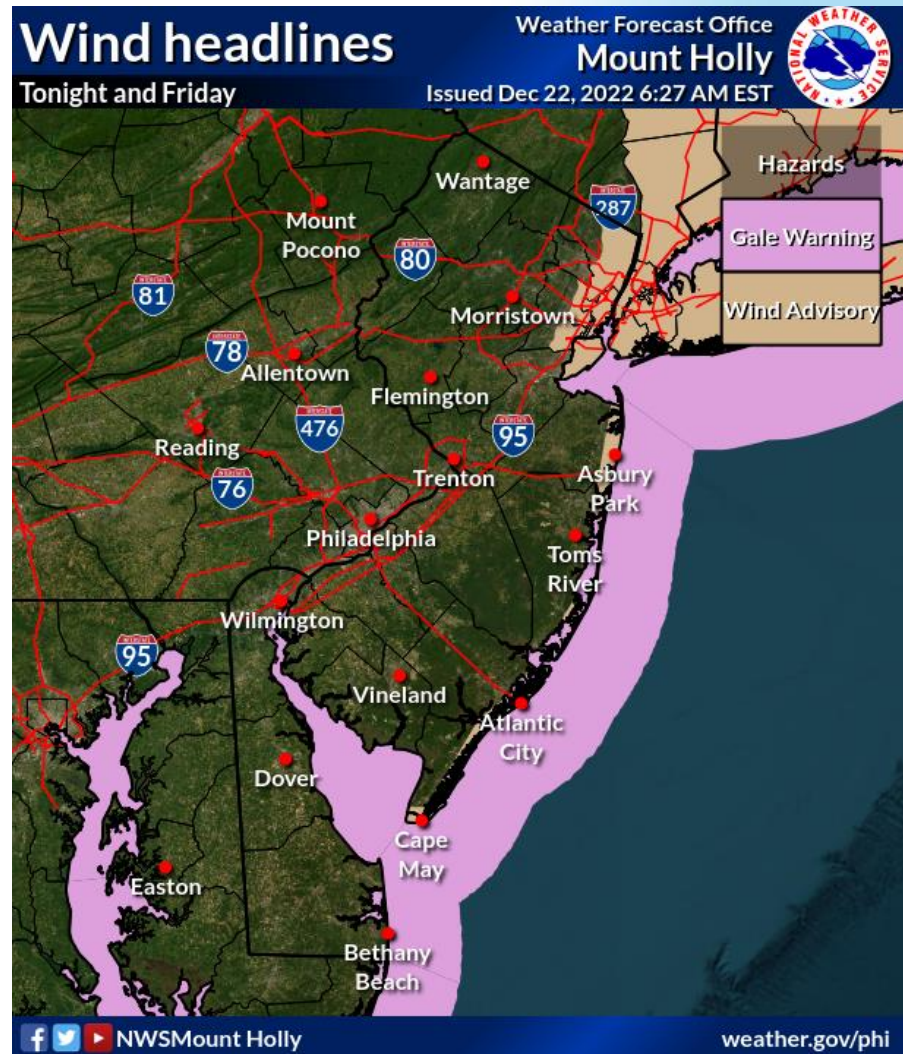


# Impactful Storm December 22-23

## Decision Support Briefing #4 As of: 7 AM, Thursday, Dec 22nd

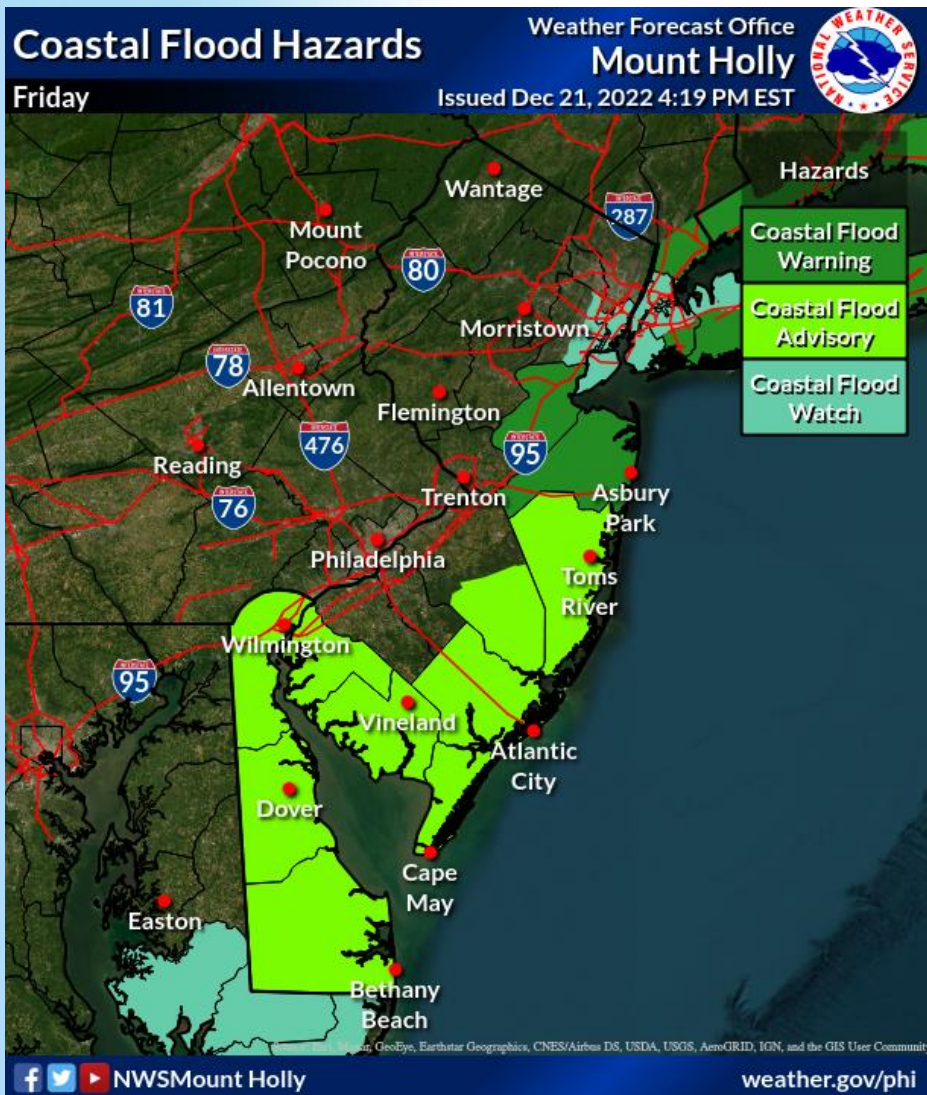
### *What Has Changed?*

- ✓ *Wind Advisories issued for coastal areas of New Jersey*










# Additional Hazard Headlines



## Main Points

Hazard	Impacts	Location	Timing
<b>Strong to Locally Damaging Winds</b> 	Increasing southerly winds around 20 to 30 mph will shift to the west on Friday with gusts of 40 to 50 mph expected. Brief gusts to 60 mph possible. This may lead to downed trees and power outages	Southeastern Pennsylvania, New Jersey, Delaware, and northeastern Maryland	Friday through Friday night
<b>Heavy Rain</b> 	Moderate to heavy rain totals of 1" to 3" may result in areas of minor flooding	Southeastern Pennsylvania, New Jersey, Delaware, and northeastern Maryland	Today through Friday
<b>Coastal Flooding</b> 	Minor to moderate coastal flooding expected	Atlantic coastal New Jersey and Delaware, Delaware Bay, and the tidal Delaware River	High tide cycles Friday morning and afternoon
<b>Marine</b> 	Gale-force winds and seas 9-14 feet will make navigation very difficult. Wind gusts up to 45 kts expected	Atlantic Coastal waters and Delaware Bay	Tonight through Friday evening
<b>Wind Chill</b> 	Dangerously cold wind chills as low as -20°F expected, coldest across the southern Poconos	Southeastern Pennsylvania, New Jersey, Delaware, and northeastern Maryland	Friday night through Saturday night

# Summary of Greatest Impacts



**Strong Winds: SE PA, NJ, DE, & NE MD**

None

Limited

Elevated

Significant

Extreme



**Heavy Rain: SE PA, NJ, DE, & NE MD**

None

Limited

Elevated

Significant

Extreme



**Coastal Flooding: Coastal NJ & DE, DE Bay, and Tidal DE River**

None

Limited

Elevated

Significant

Extreme



**Marine: Atlantic Coastal Waters and DE Bay**

None

Limited

Elevated

Significant

Extreme



**Dangerous Wind Chills: SE PA, NJ, DE, & NE**

None

Limited

Elevated

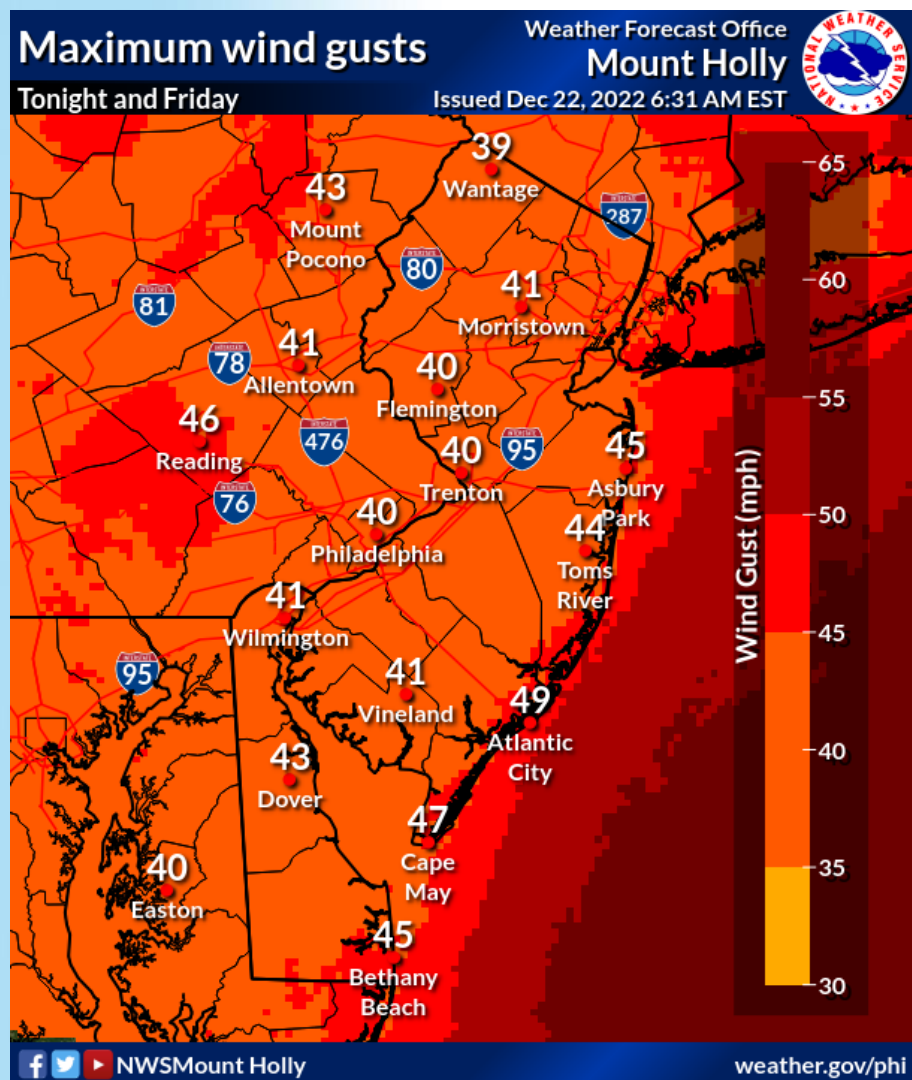
Significant

Extreme



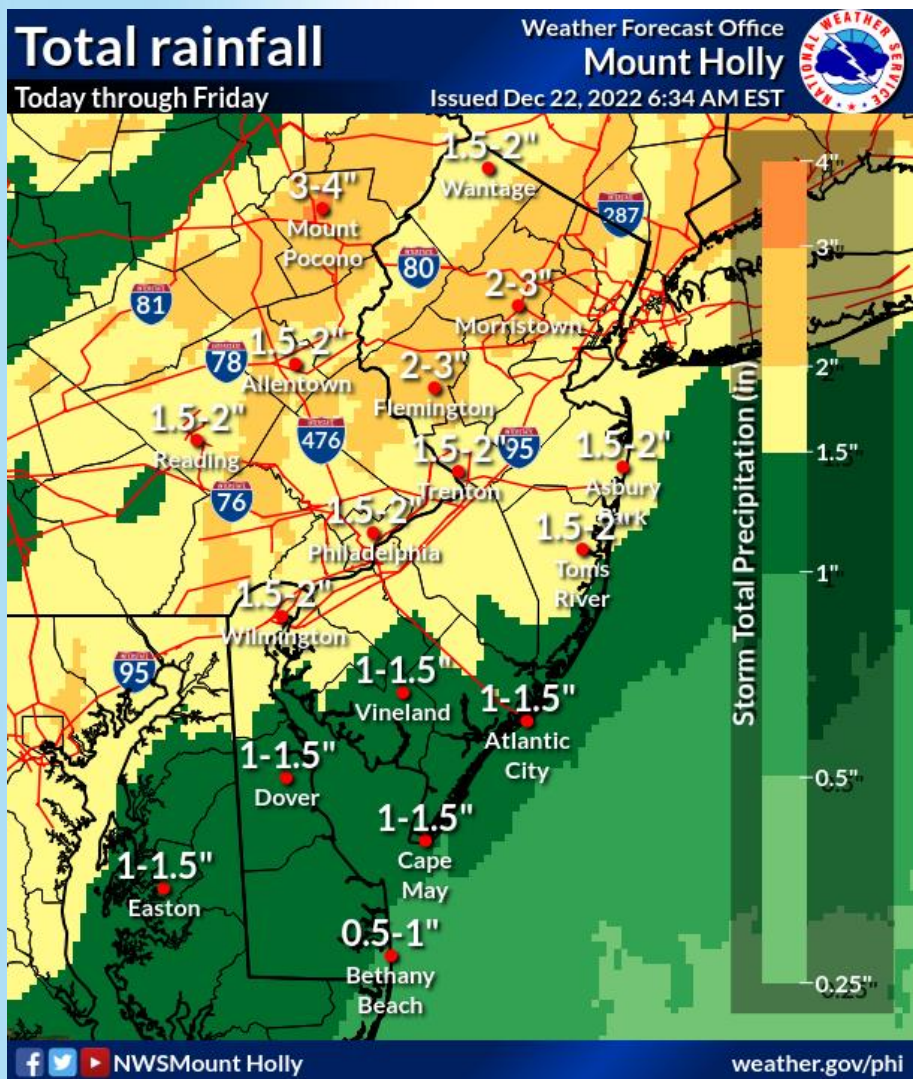


# Maximum Wind Gusts



- ✓ South winds increasing to 20 to 30 mph tonight shifting sharply from the west behind a cold front on Friday
- ✓ Wind gusts of 40 to 50 mph possible area-wide Friday into Friday night
- ✓ Brief gusts up to 60 mph possible with cold front passage
- ✓ Strongest winds and gusts expected Friday through Friday night

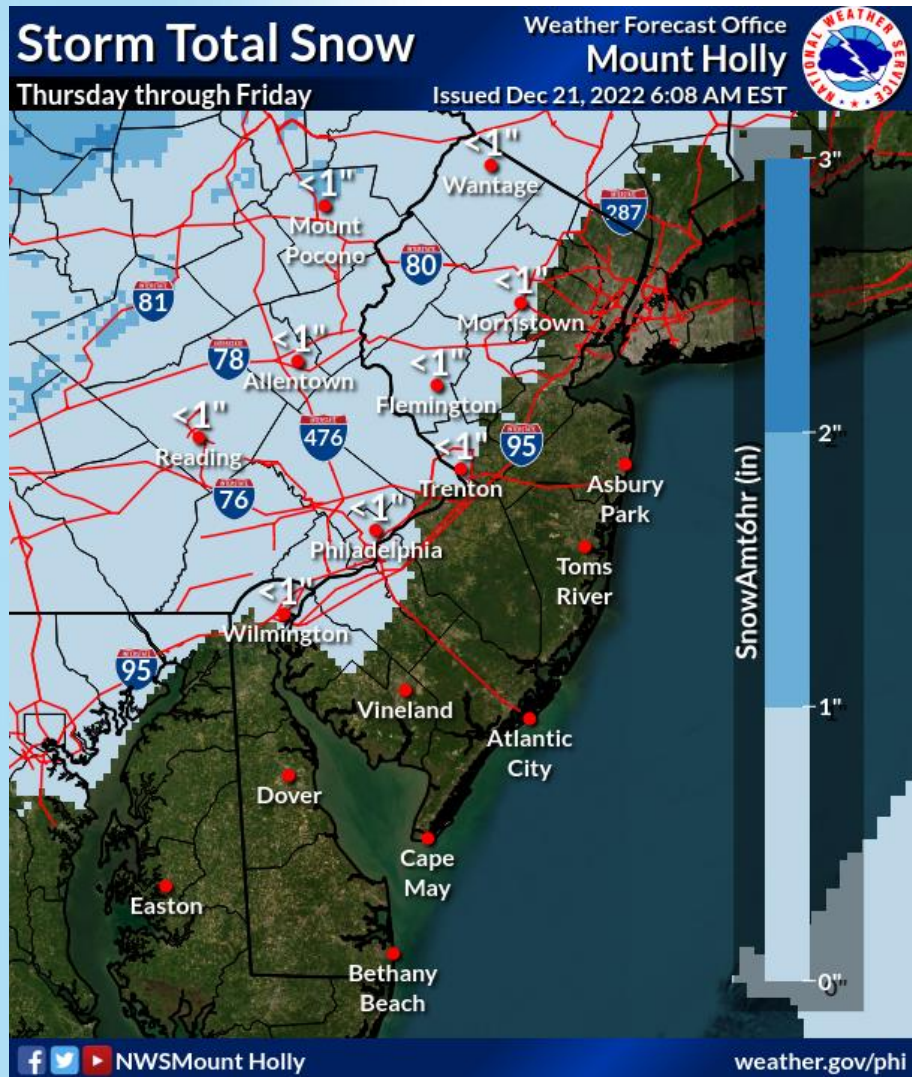
# Storm Total Rainfall



- ✓ Widespread rainfall of 1-3" is expected with locally higher amounts possible near and north of I-78
- ✓ Minor flooding of low lying and poor drainage areas is possible



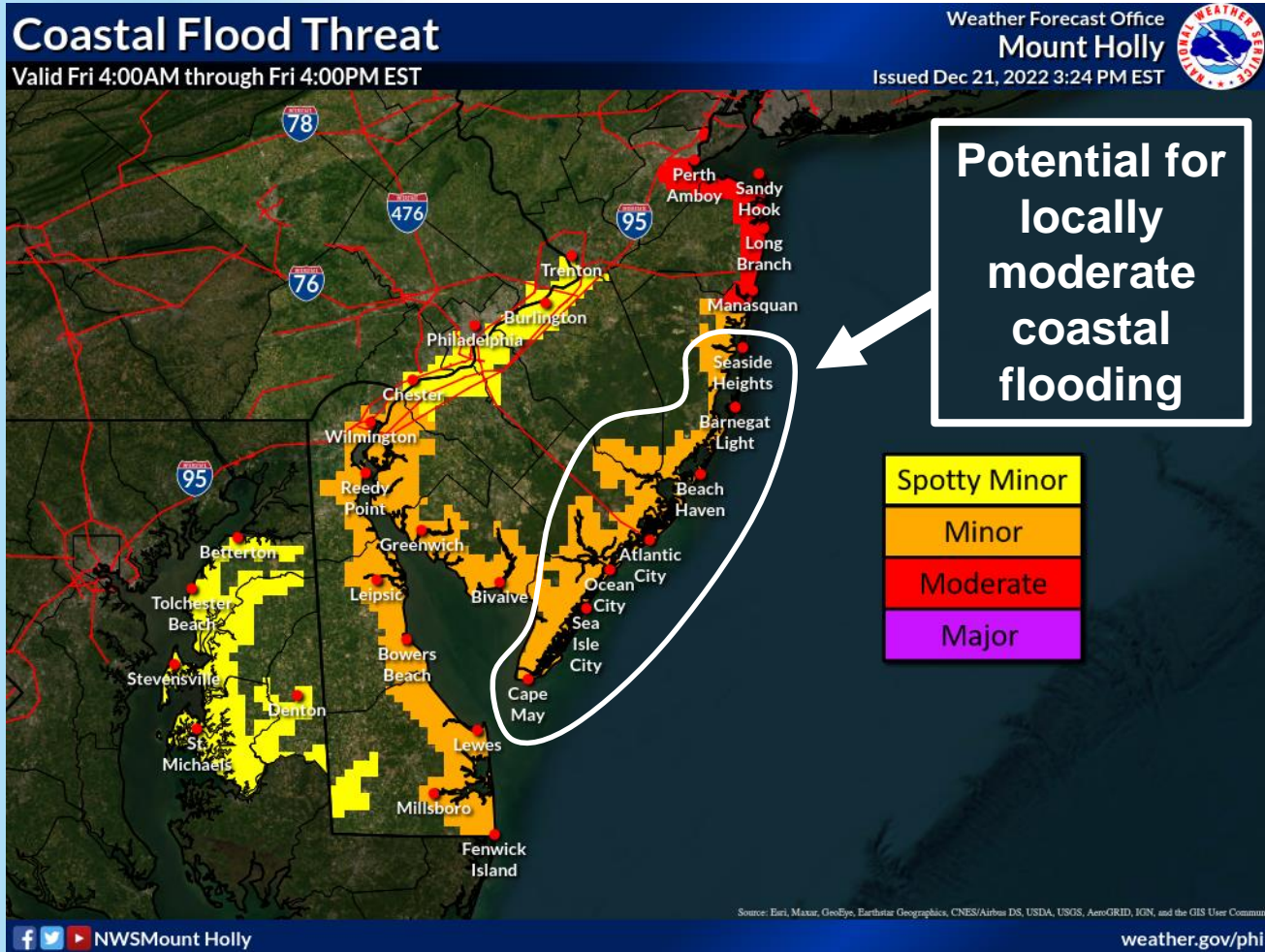
# Storm Total Snowfall Accumulation



**Confidence is Moderate in Snowfall Forecast. Limited impacts are expected from snow and ice**

Impacts ↑	Extreme			
	Significant			
	Elevated			
	Limited		X	
	None			
		Low	Moderate	High
		Confidence →		

# Coastal Flooding

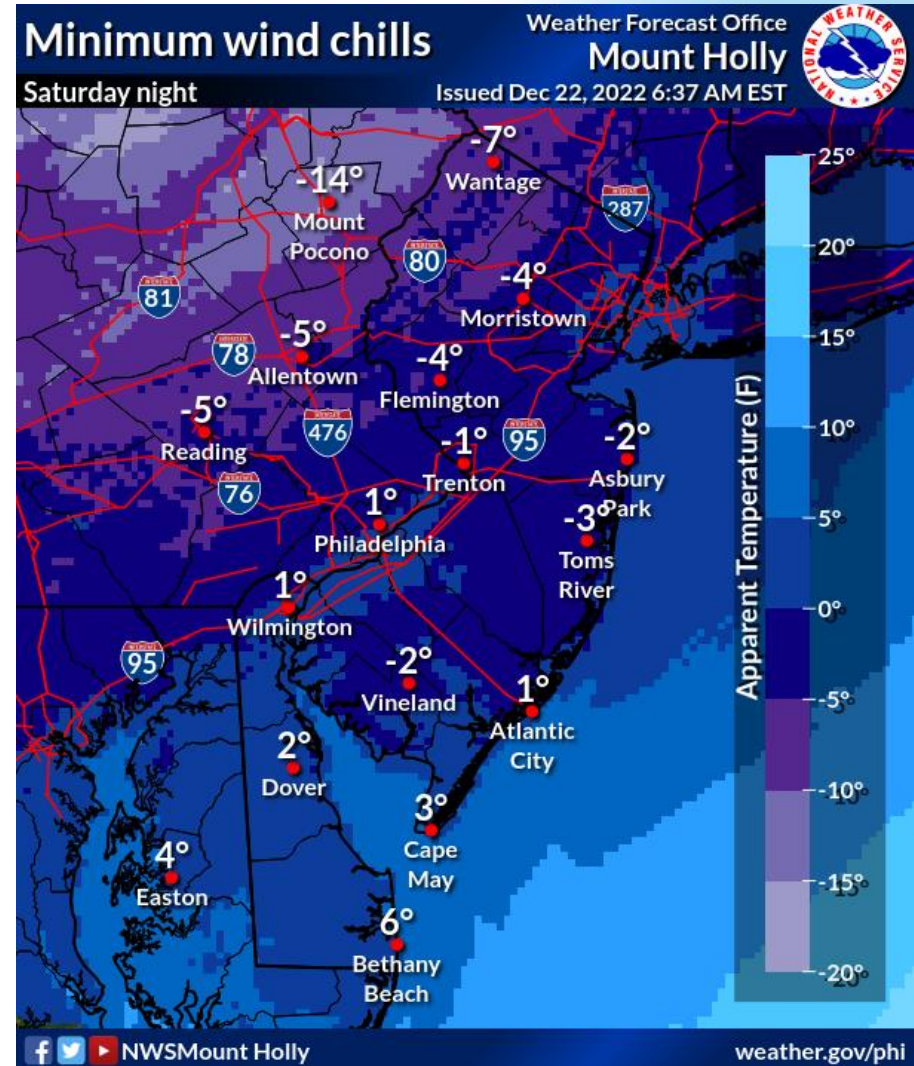
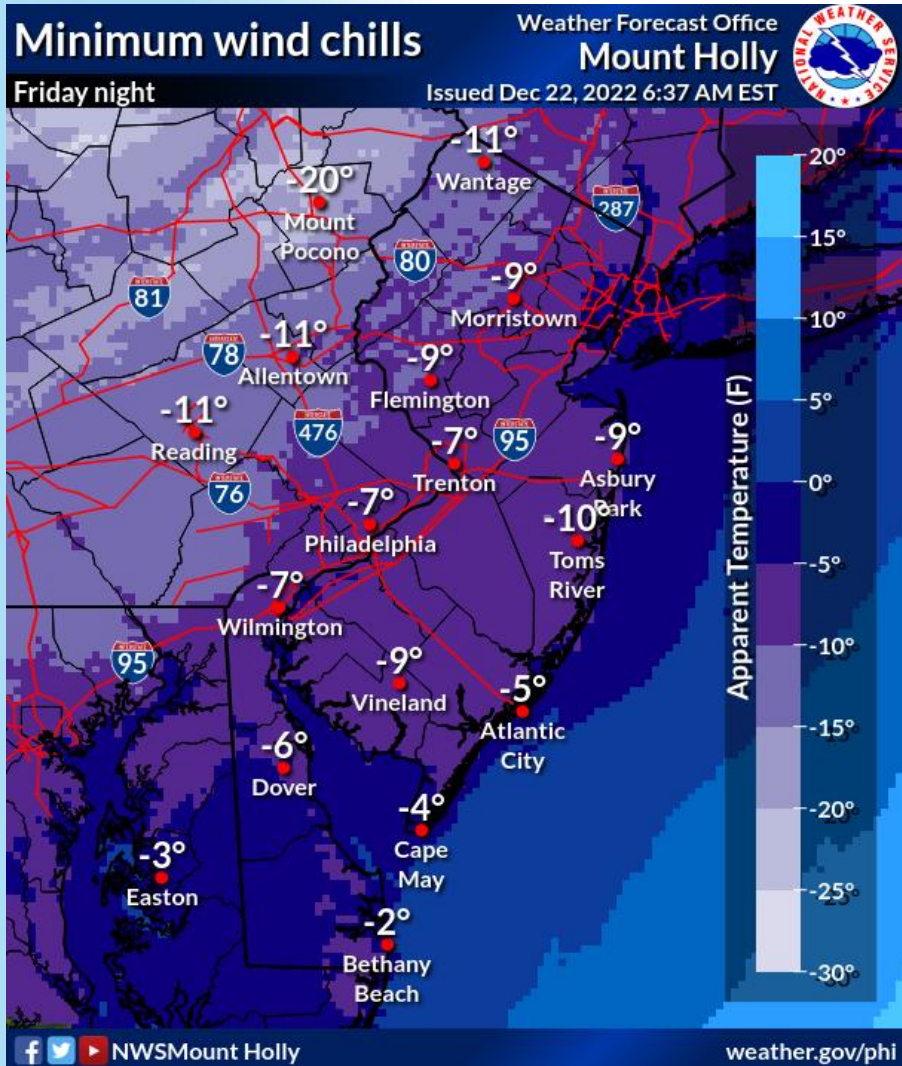


**Friday morning and afternoon high tide cycles impacted by widespread minor flooding along the indicated coasts, with areas of moderate flooding**

This graphic shows the expected magnitude of flooding on the oceanfront, bays, and estuaries along the highlighted areas.

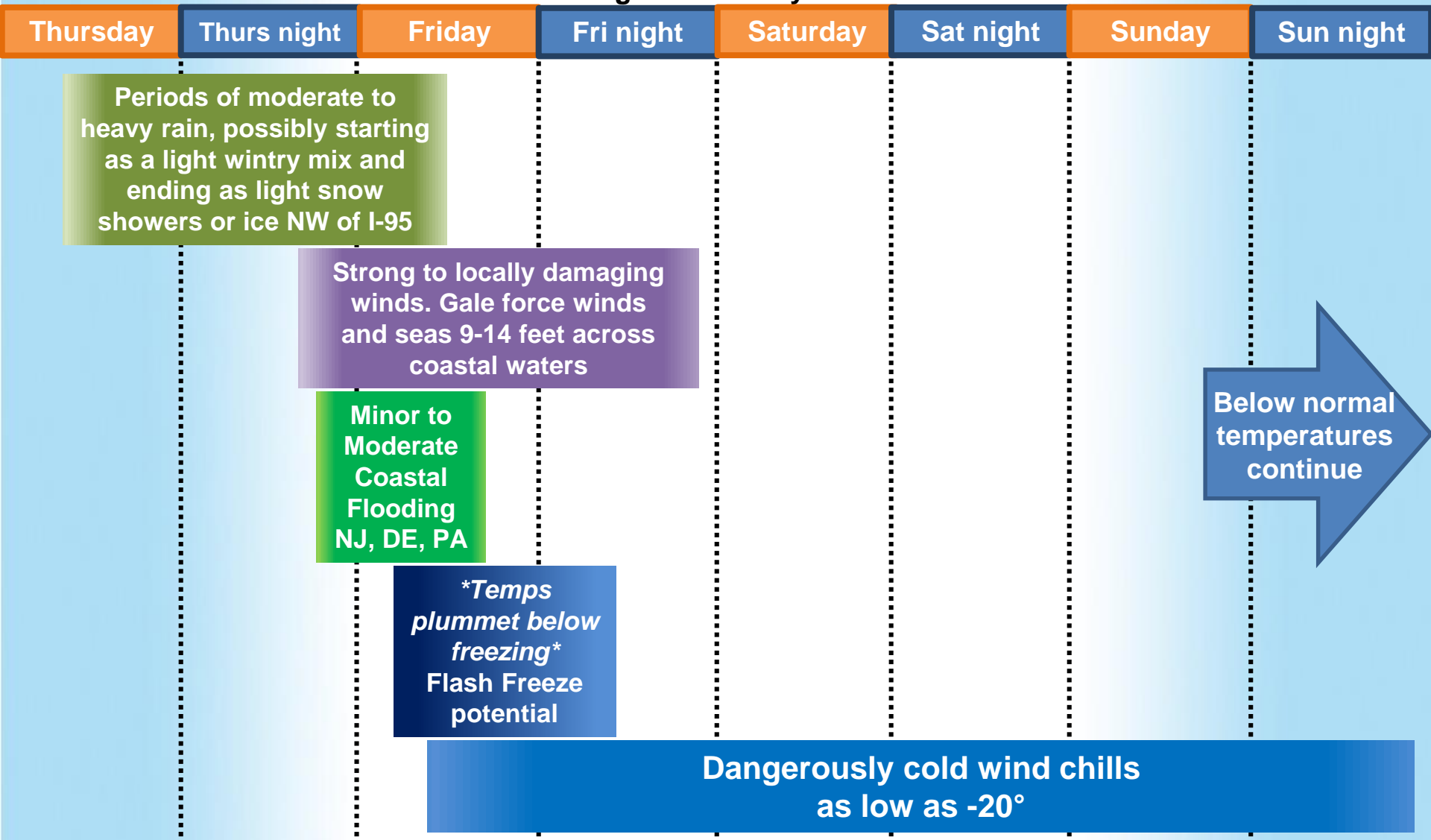


# Lowest Wind Chills – Friday night and Saturday Night



# Timeline of Hazardous Weather Impacts

Through the Holiday Weekend





## Event Summary

- ✓ Periods of rain will begin later today and continue through midday Friday. The rain may be heavy at times. Storm total rainfall of 1-3" with locally higher amounts may lead to minor flooding in some areas. Precipitation is expected to remain as mostly rain, although some light mixed precipitation is possible at the start northwest of I-95, and light flurries or snow showers are possible Friday afternoon as the rain ends. No significant snow or ice accumulation is expected.
- ✓ South winds will increase to 20-30 mph late tonight. Gusts around 40-50 mph are expected Friday through Friday night area-wide as a strong cold front passes through the area. Right along the cold front as it moves through on Friday, a narrow squall line could develop bringing localized wind gusts up to 60 mph. These winds could lead to downed trees and power outages. Also, the passage of the front will bring a very sharp drop in temperatures leading to a quick freezing of any wet surfaces. This could create very icy conditions with potentially hazardous travel.
- ✓ Gale force winds are expected across all Atlantic coastal waters and Delaware Bay tonight through Friday night. Seas building to 9-14 feet.
- ✓ Widespread minor coastal flooding is expected to impact the high tides Friday morning and afternoon for the Atlantic coasts of New Jersey and Delaware, as well as the Delaware Bay coasts and tidal Delaware River. Moderate coastal flooding is expected for the coastal areas of Monmouth and Middlesex Counties in New Jersey, and spotty moderate coastal flooding may occur elsewhere in Atlantic coastal New Jersey.
- ✓ Dangerously cold wind chills as low as -20°F will develop for Friday night and Saturday night. The coldest wind chills will occur across the Pocono Plateau. Impacts may be exacerbated if power outages from the winds occur and these impacts last into the weekend.

# Contact and Next Briefing Information



## Next Briefing

*When: 6 PM, Thursday, Dec 22*

## Briefing Webpage:

[www.weather.gov/media/phi/current\\_briefing.pdf](http://www.weather.gov/media/phi/current_briefing.pdf)



### Web:

[www.weather.gov/phi](http://www.weather.gov/phi)



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