
TROPICAL STORM NICOLE

Current Watches and Warnings

Hurricane Warning:

- The Abacos, Berry Islands, Bimini, and Grand Bahama Island in the northwestern Bahamas
- Boca Raton to Flagler/Volusia County Line, Florida

Tropical Storm Warning:

- Bimini in the northwestern Bahamas
- Hallandale Beach Florida to Boca Raton, Florida
- Flagler/Volusia County Line, Florida to South Santee River, South Carolina
- North of Bonita Beach to Indian Pass, Florida
- Lake Okeechobee

Storm Surge Warning:

- North Palm Beach Florida to Altamaha Sound Georgia
- Mouth of the St. Johns River to Georgetown Florida
- Anclote River Florida to Ochlockonee River Florida

Hurricane Watch:

- Hallandale Beach to Boca Raton Florida
- Lake Okeechobee

Storm Surge Watch:

- Ochlockonee River to Indian Pass Florida
- South of North Palm Beach to Hallandale Beach Florida
- Altamaha Sound Georgia to South Santee River South Carolina

Current Details from the National Hurricane Center

COORDINATES: 26.5N 77.9W

LOCATION: 135 miles (220 km) East of West Palm Beach, Florida

WINDS: 70 mph (110 kph)

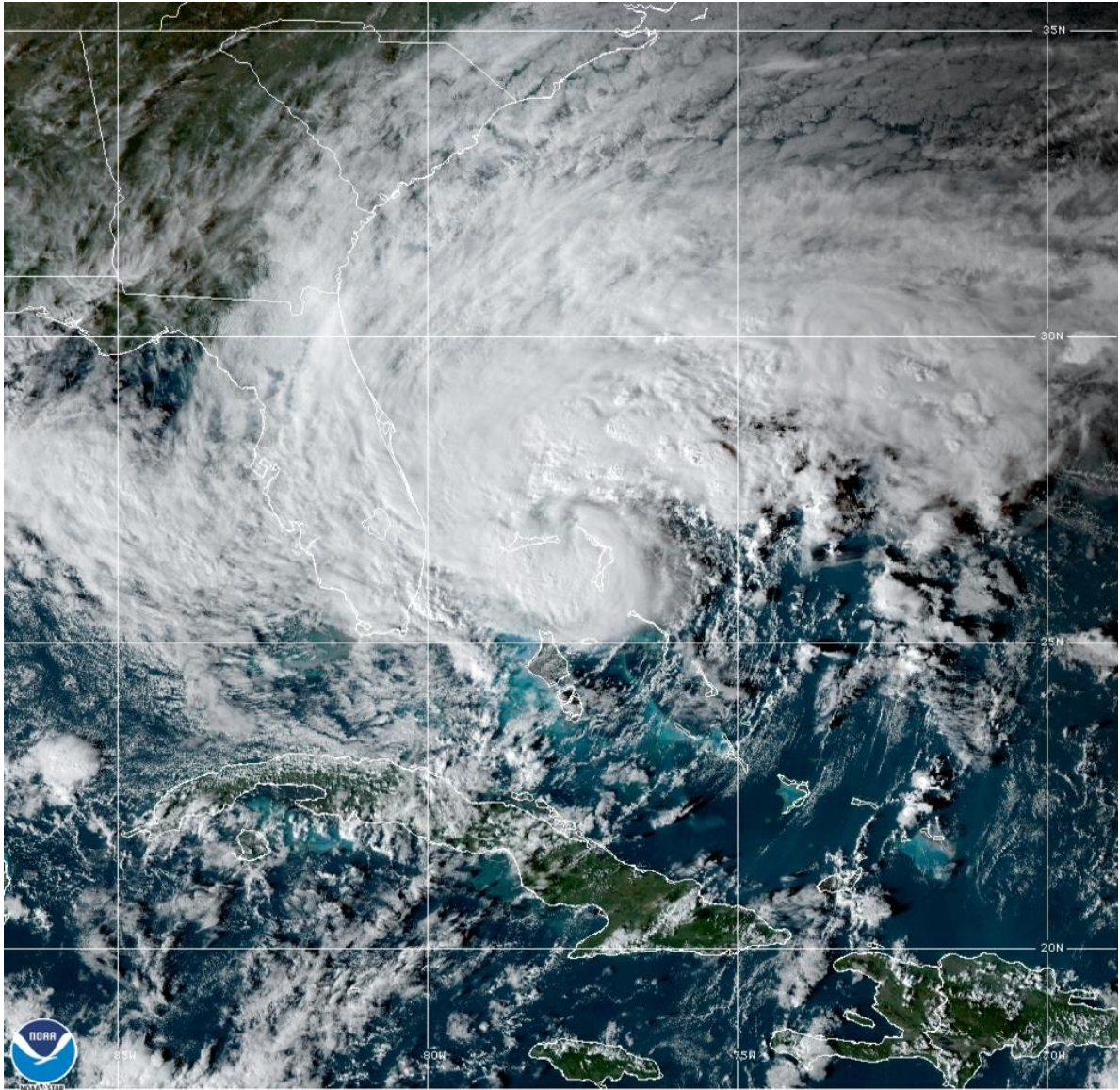
RADIUS OF TROPICAL STORM-FORCE WINDS: up to 485 miles (780 kph)

MOVEMENT: West at 13 mph (20 kph)

MINIMUM CENTRAL PRESSURE: 985 mbar

SAFFIR-SIMPSON SCALE RANKING: Tropical Storm

Latest Satellite Imagery



09 Nov 2022 20:50Z NOAA/NESDIS/STAR GOES-East GEOCOLOR

Source: NOAA / NASA

Discussion

The satellite presentation of Nicole has not changed much since late this morning. Curved bands of convection wrap around much of the circulation and there has been a ragged eyewall in radar data from both the Bahamas and Miami. An Air Force Reserve reconnaissance aircraft reported a minimum pressure of 985 mb and peak 850-mb flight-level winds of 72 kt during its final pass through the center and northwestern portion of the storm as Nicole made landfall on Great Abaco Island in the northwestern Bahamas just prior to 1700 UTC. Those aircraft data still supported an intensity of 60 kt, and that remains the initial intensity for this advisory.

Recent center fixes show that Nicole is moving westward or 270degrees at 11 kt. A mid-level ridge located to the north of the cyclone is expected to shift eastward causing Nicole to turn west-northwestward to northwestward tonight. This motion should bring the center onshore the coast of southeastern or east-central Florida overnight, and across the Florida peninsula Thursday morning. As Nicole passes over north Florida late Thursday, a mid-latitude trough moving into the central United States is expected to turn the cyclone or its remnants northward and then northeastward across inland portions of Georgia and the Carolinas. The dynamical model guidance is in good agreement during the first 12 to 24 hours, with some increase in spread during the recurvature portion of the forecast. The updated NHC track forecast is very similar to the previous advisory through 24 hours, but is slightly west thereafter to be close to the latest consensus aids.

Nicole still has about 12 hours in which to strengthen. Given the slightly improved inner core structure and the warm waters of the Gulf Stream that Nicole will be traversing, the forecast still calls for the cyclone to reach hurricane status before reaching the east coast of Florida. After landfall, weakening should occur as the center cross the Florida peninsula. Even if the center briefly emerges over the extreme northeastern Gulf of Mexico, re-intensification is not expected. Nicole is forecast to weaken further over the southeastern United States, and then dissipate along a frontal zone moving into the eastern United States by 60 hours.

Key Messages from the National Hurricane Center

1. Hurricane and tropical storm conditions and a dangerous storm surge are expected to continue over portions of the northwestern Bahamas through this evening, where a Hurricane Warning remains in effect.
2. Hurricane conditions are expected across portions of the coast of southeast and east-central Florida beginning this evening or tonight, where a Hurricane Warning is in effect. Tropical storm conditions will continue along the east coast of Florida, Georgia, and South Carolina within the warning areas into Thursday. Tropical storm conditions are expected to begin along the west coast of Florida within the warning area this evening or tonight.
3. A dangerous storm surge is expected along much of the east coast of Florida, portions of coastal Georgia, and the Florida Big Bend along the Gulf coast. The storm surge will be accompanied by large and damaging waves along the Atlantic coast. Residents in the warning area should listen to advice given by local officials.
4. Do not focus on the exact track of Nicole since it is a large storm with hazards extending well to the north of the center, outside of the forecast cone. These hazards will affect much of the Florida peninsula and portions of the southeast United States.

5. Nicole will produce heavy rainfall today into Thursday across the Florida Peninsula. Flash and urban flooding will be possible across portions of the Florida Peninsula along with renewed river rises on the St. Johns River. Isolated flash, urban, and small stream flooding will also be possible on Friday in the Southeast through the southern and central Appalachians, including the Blue Ridge Mountains, and extending northward through west central Pennsylvania into western New York by Friday night.

Additional Information

WIND: Hurricane and tropical storm conditions will continue across portions of the northwestern Bahamas through tonight. Tropical storm conditions will continue along portions of the east coast of Florida, Georgia, and South Carolina in the warning areas into Thursday. Hurricane conditions are expected within the hurricane warning area in Florida tonight or Thursday morning. Hurricane conditions are possible within the hurricane watch area tonight. Tropical storm conditions are expected within the warning area along the west coast of Florida by this evening or tonight.

STORM SURGE: The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water could reach the following heights above ground somewhere in the indicated areas if the peak surge occurs at the time of high tide...

- * North Palm Beach Florida to Altamaha Sound Georgia including the St. Johns River to the Fuller Warren Bridge...3 to 5 ft
- * Anclote River to Ochlockonee River...3 to 5 ft
- * Altamaha Sound Georgia to the South Santee River South Carolina...2 to 4 ft
- * St. Johns River south of the Fuller Warren Bridge to Georgetown Florida...2 to 4 ft
- * Hallandale Beach to North Palm Beach...2 to 4 ft
- * Ochlockonee River to Indian Pass...2 to 4 ft
- * Englewood to Anclote River including Tampa Bay...1 to 3 ft
- * North of Ocean Reef to Hallandale Beach including Biscayne Bay...1 to 2 ft
- * South Santee River to Surf City North Carolina...1 to 2 ft

Storm surge could raise water levels by as much as 4 to 6 feet above normal tide levels along the immediate coast of the northwestern Bahamas in areas of onshore winds. The deepest water will occur along the immediate coast near and to the north of the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Nicole is expected to produce the following rainfall amounts through Saturday: Northwest Bahamas into the eastern, central and northern portions of the Florida Peninsula: 3 to 5 inches with local maxima of 8 inches. Southeast into the southern and central Appalachians, western Mid-Atlantic, and eastern portions of Tennessee, Kentucky, and Ohio: 2 to 4 inches with local maxima of 6 inches along the Blue Ridge. Northern Mid-Atlantic into New England: 1 to 4 inches. Flash and urban flooding will be possible, along with renewed river rises on the St. Johns River, across the Florida Peninsula today into Thursday. Heavy rainfall from this system will spread northward across portions of the Southeast,



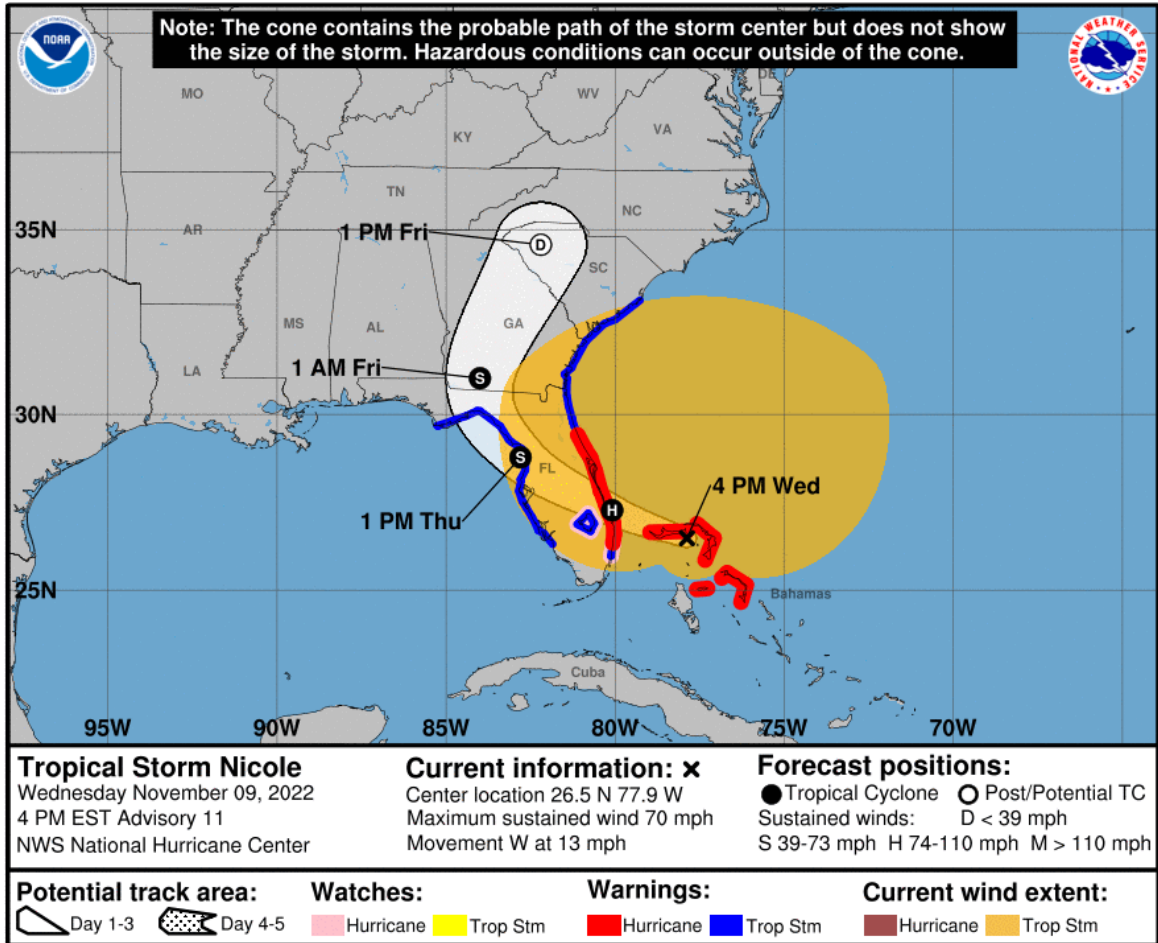
eastern Ohio Valley, Mid-Atlantic, and New England Thursday into Friday night, where limited flooding impacts will be possible.

TORNADOES: A few tornadoes are possible tonight across eastern Florida, and Thursday from northeastern Florida into parts of southeast Georgia, eastern South Carolina, and southeast North Carolina.

SURF: Large swells generated by Nicole will affect the northwestern Bahamas, the east coast of Florida, and much of the southeastern United States coast during the next few days. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY ----- Next intermediate advisory at 700 PM EST. Next complete advisory at 1000 PM EST.

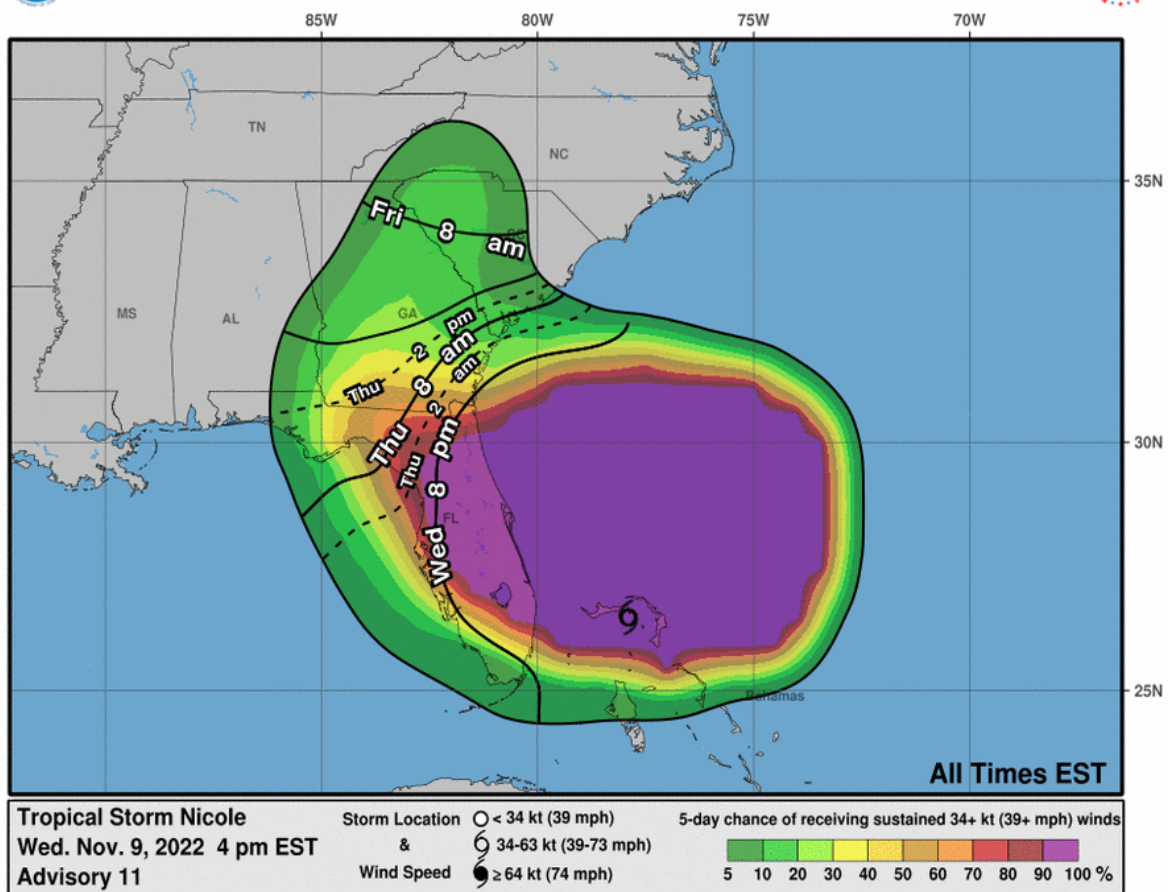
National Hurricane Center Forecast



Most Likely Arrival Time of Tropical Storm-Force Winds

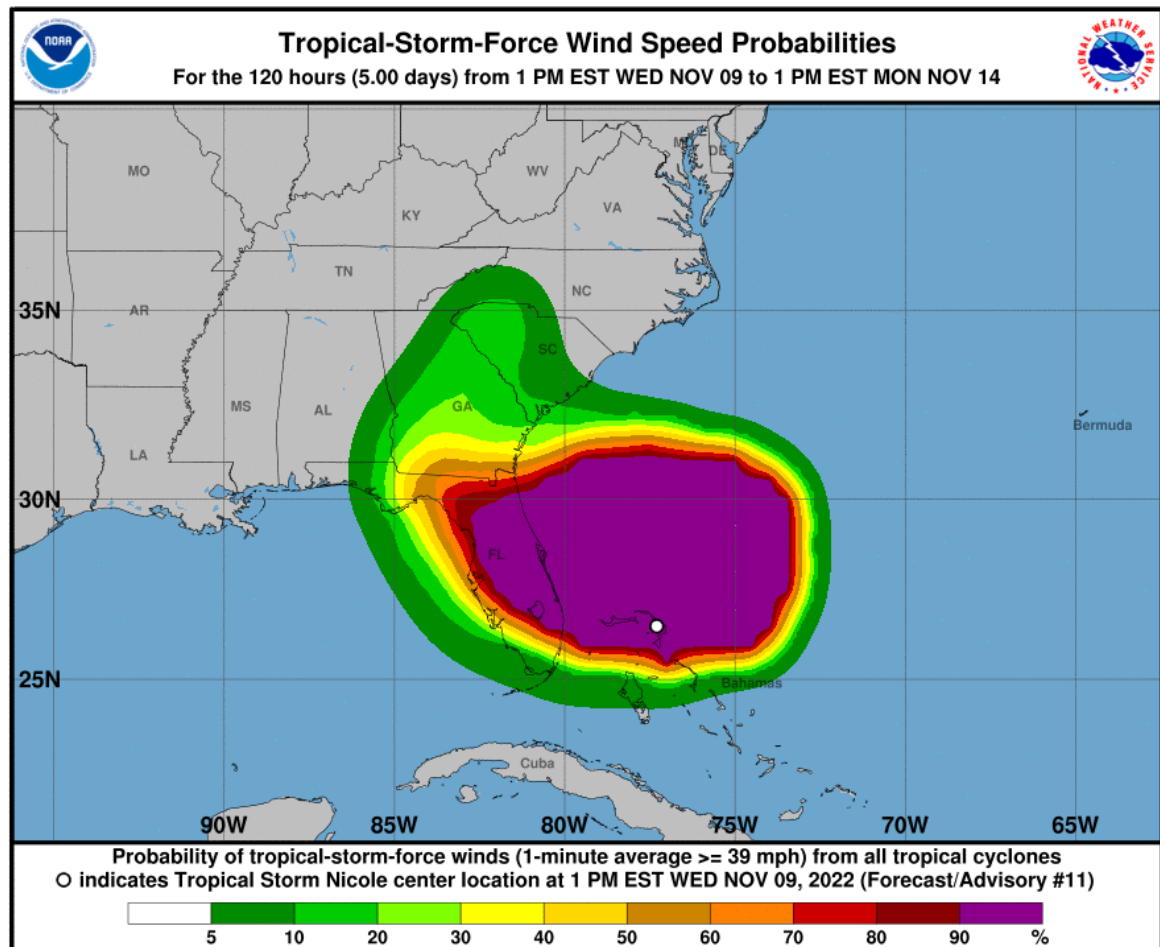


Most Likely Arrival Time of Tropical-Storm-Force Winds

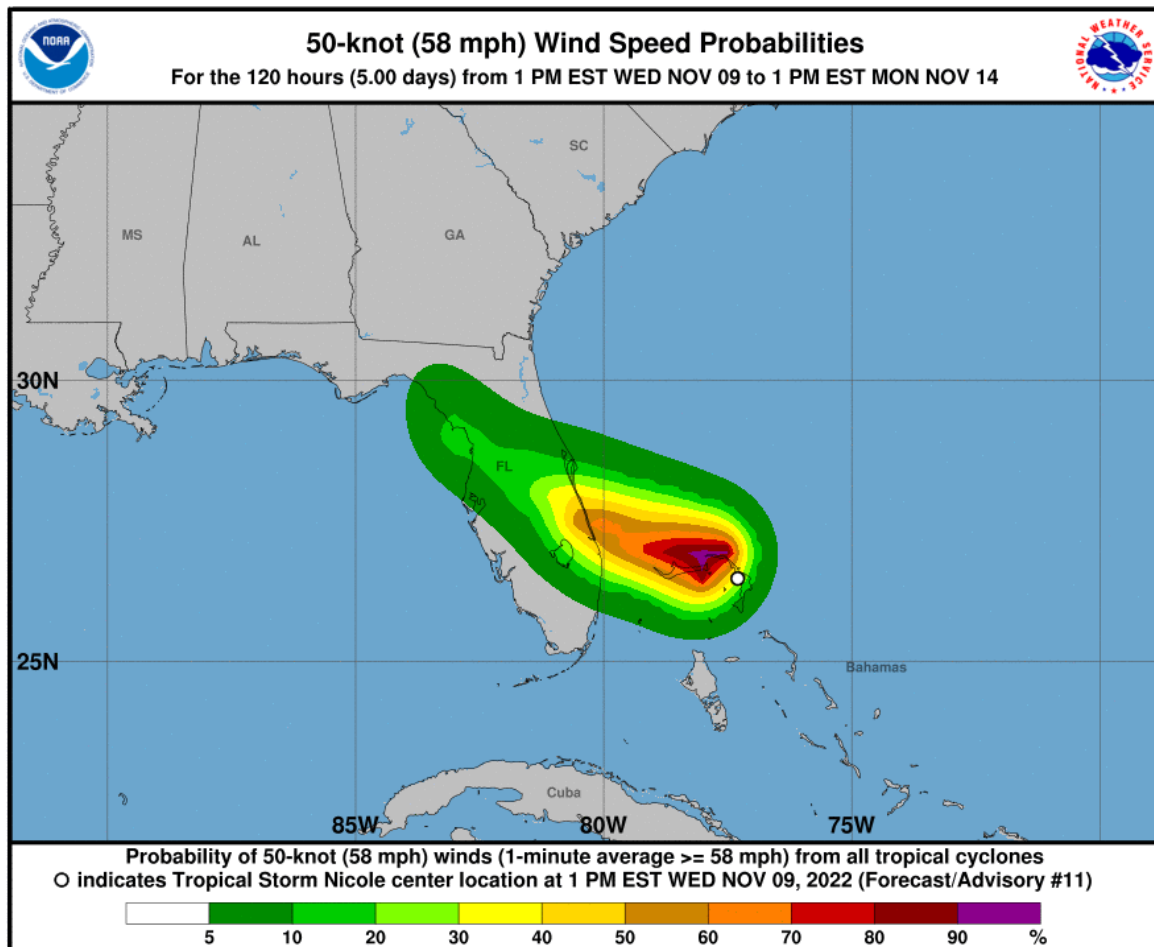


National Hurricane Center: Wind Speed Probabilities

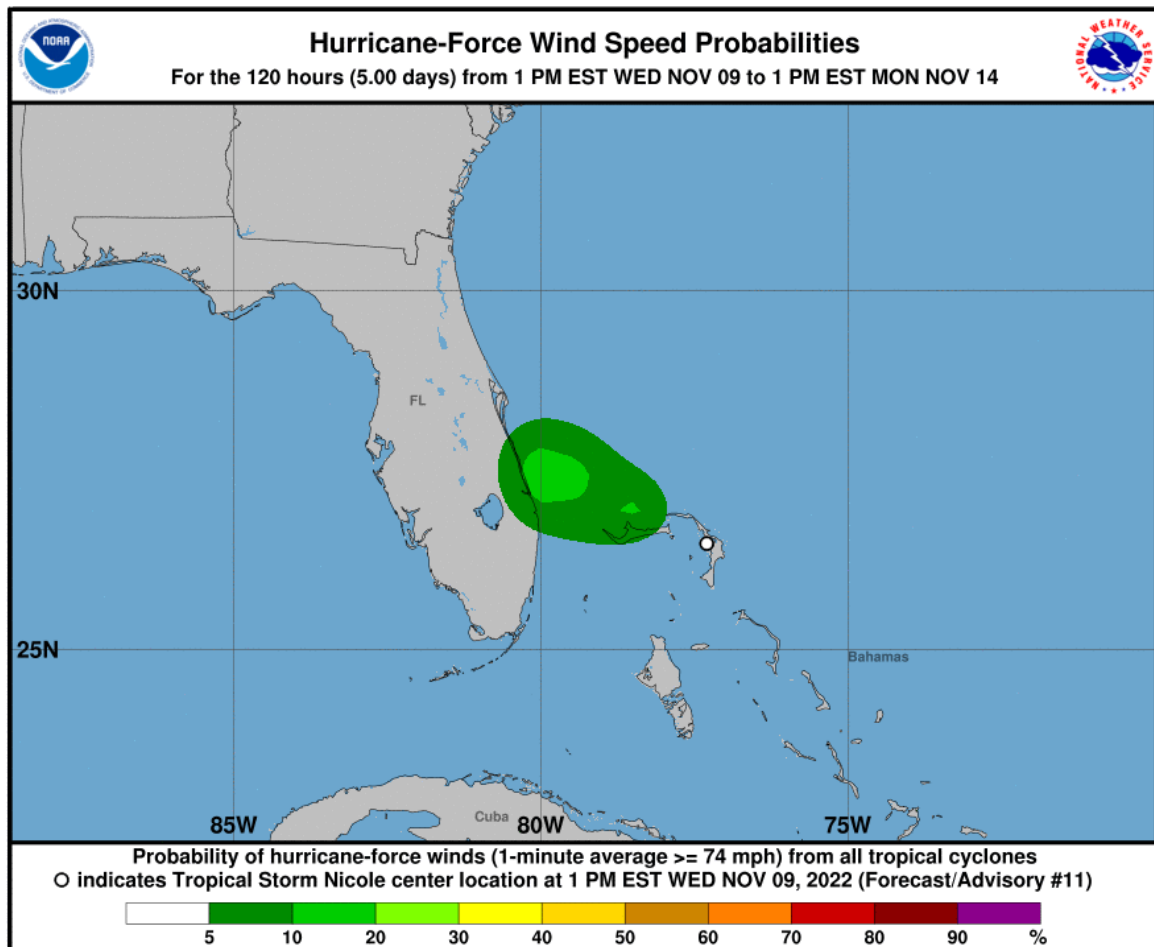
Tropical Storm-Force Wind Probabilities (≥ 40 mph (65 kph))



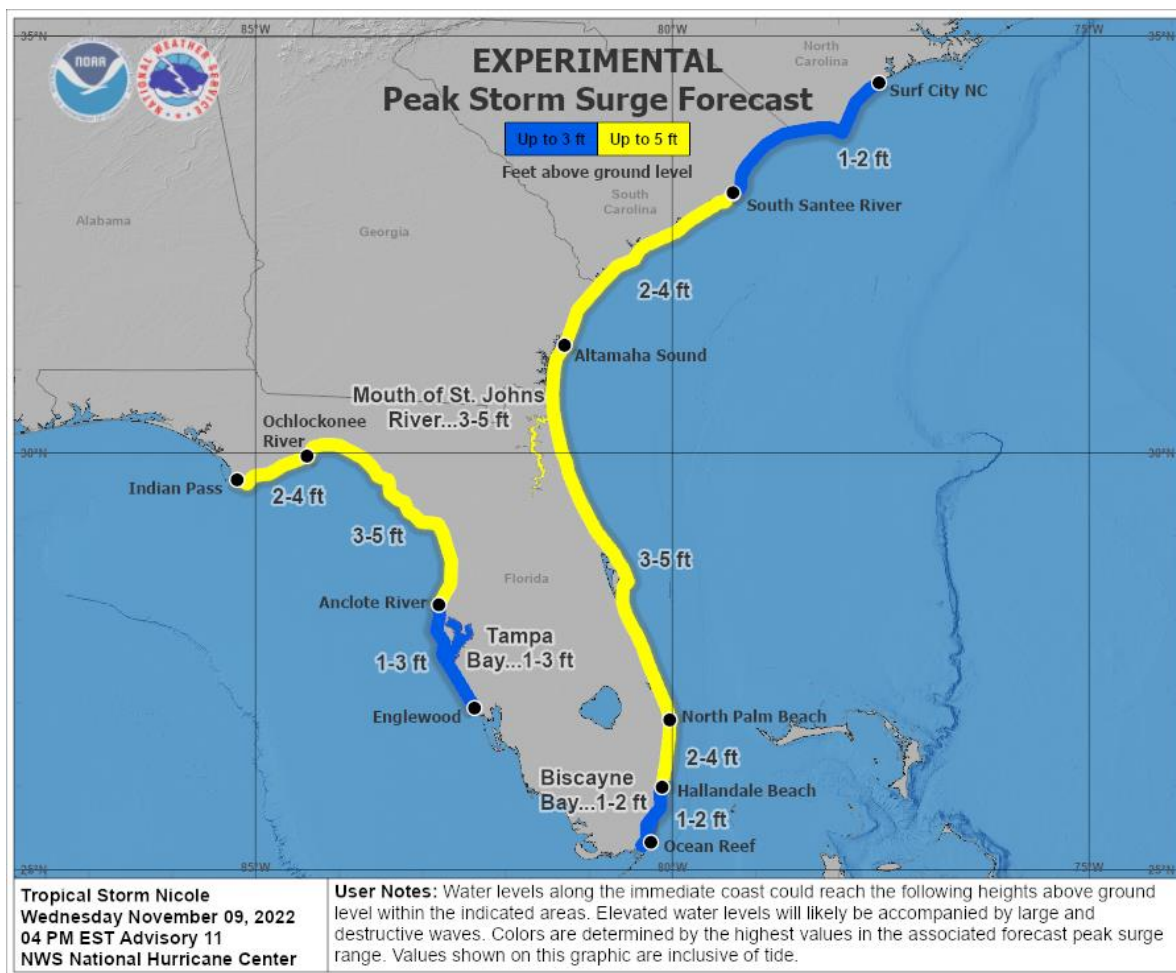
Wind Probabilities (≥ 60 mph (95 kph))



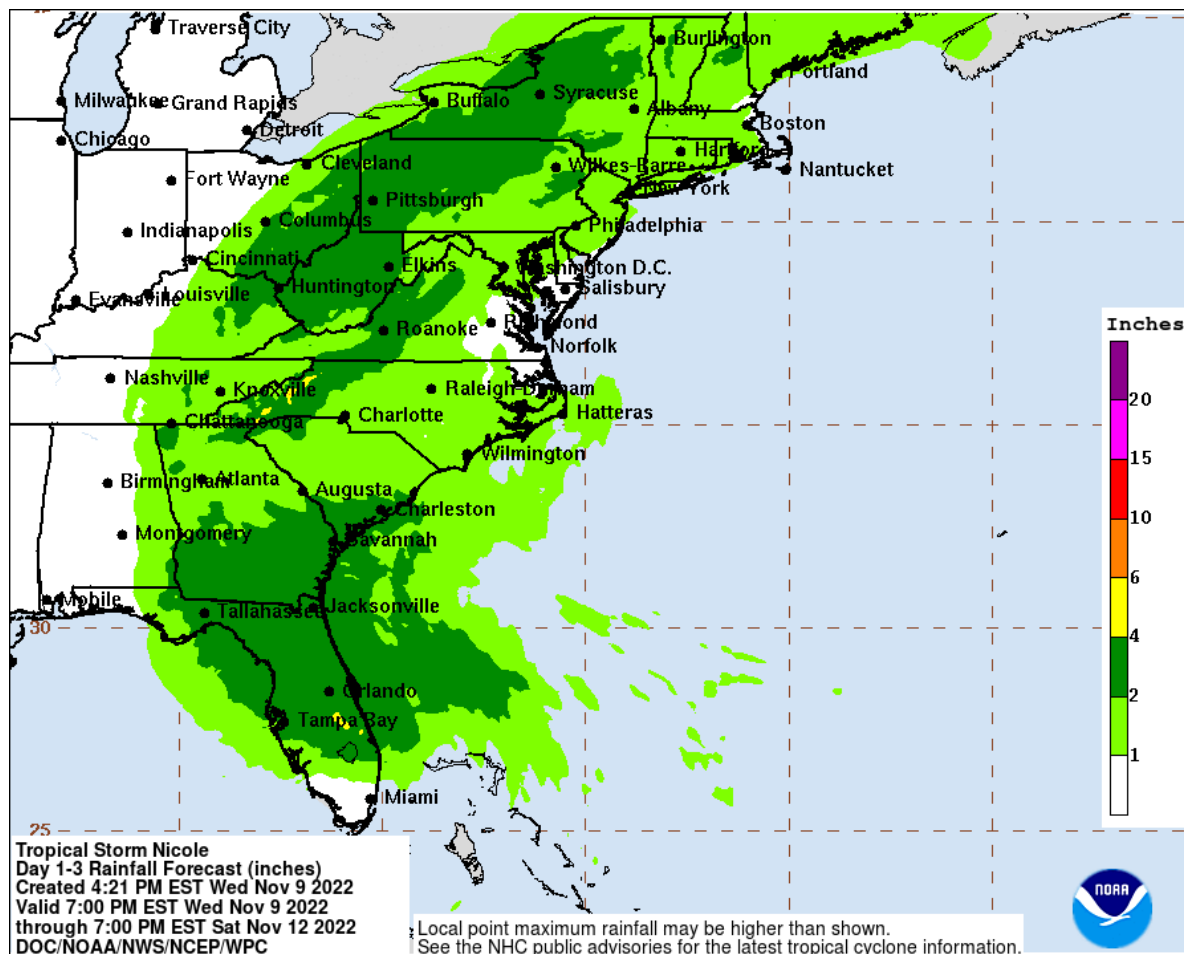
Hurricane-Force Wind Probabilities (≥ 75 mph (120 kph))



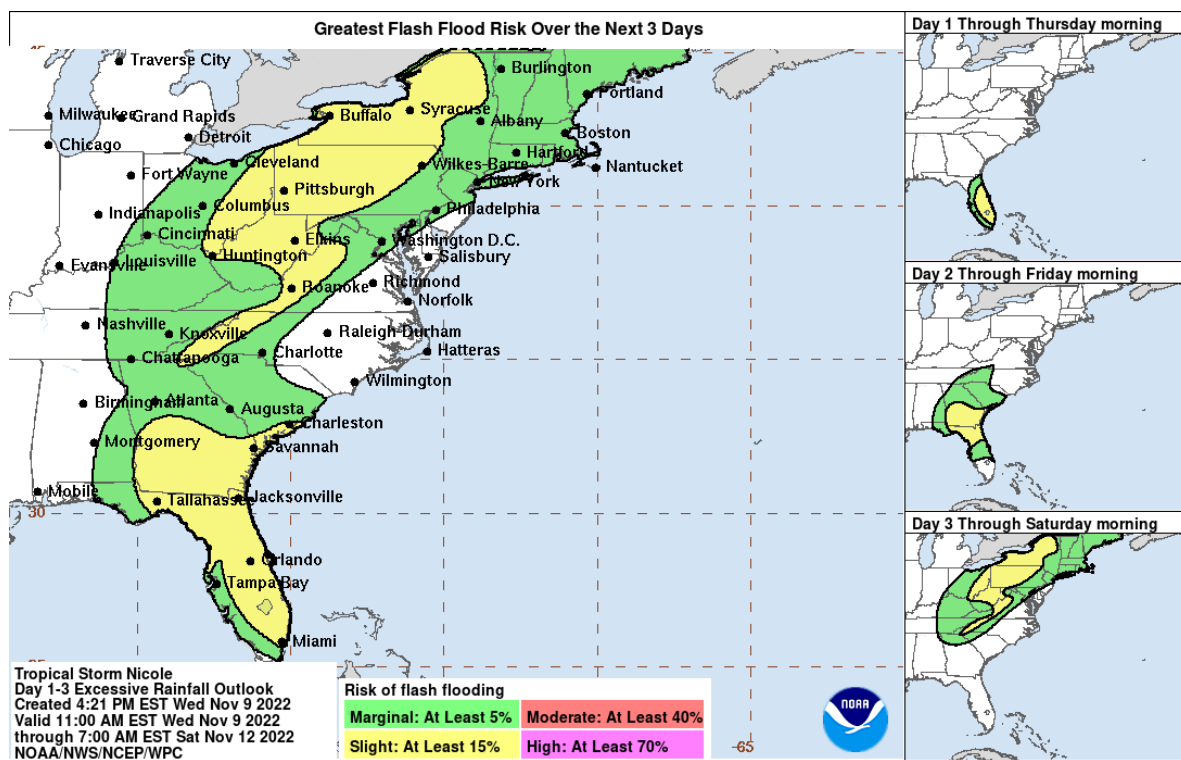
National Hurricane Center: Storm Surge Inundation Graphic



Weather Prediction Center: Rainfall Potential



Weather Prediction Center: Flash Flood Potential





NEXT CAT ALERT: This will be the last Cat Alert for Nicole.

Appendix: Tropical Cyclone Intensity Classifications for Global Basins

WIND SPEED			BASINS AND MONITORING BUREAU										
KT	MPH	KPH	NE Pacific, Atlantic	NW Pacific	NW Pacific	SW Pacific	Australia	SW Indian	North Indian				
			National Hurricane Center (NHC)	Joint Typhoon Warning Center (JTWC)	Japan Meteorological Agency (JMA)	Fiji Meteorological Service (FMS)	Bureau of Meteorology (BOM)	Meteo-France (MF)	India Meteorological Department (IMD)				
30	35	55	Tropical Depression	Tropical Depression	Tropical Depression	Tropical Depression	Tropical Low	Tropical Depression	Deep Depression				
35	40	65	Tropical Storm	Tropical Storm	Tropical Storm	Cat. 1 Tropical Cyclone	Cat. 1 Tropical Cyclone	Moderate Tropical Storm	Cyclonic Storm				
40	45	75											
45	50	85			Severe Tropical Storm	Cat. 2 Tropical Cyclone	Cat. 2 Tropical Cyclone	Severe Tropical Storm	Severe Cyclonic Storm				
50	60	95											
55	65	100											
60	70	110											
65	75	120	Cat. 1 Hurricane	Typhoon	Typhoon	Cat. 3 Severe Tropical Cyclone	Cat. 3 Severe Tropical Cyclone	Tropical Cyclone	Very Severe Cyclonic Storm				
70	80	130											
75	85	140											
80	90	150	Cat. 2 Hurricane			Cat. 4 Severe Tropical Cyclone	Cat. 4 Severe Tropical Cyclone	Intense Tropical Cyclone					
85	100	160											
90	105	170											
95	110	175	Cat. 3 Major Hurricane			Cat. 5 Severe Tropical Cyclone	Cat. 5 Severe Tropical Cyclone	Very Intense Tropical Cyclone					
100	115	185											
105	120	195											
110	125	205	Cat. 4 Major Hurricane						Super Cyclonic Storm				
115	130	210											
120	140	220											
125	145	230	Cat. 5 Major Hurricane										
130	150	240											
135	155	250											
140	160	260	Cat. 5 Major Hurricane										
>140	>160	>260											

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