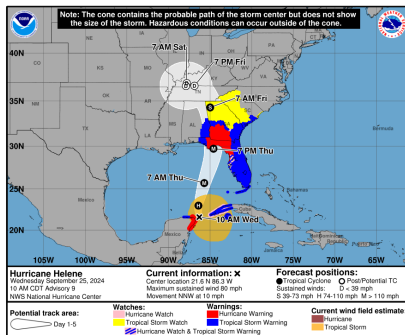


Product

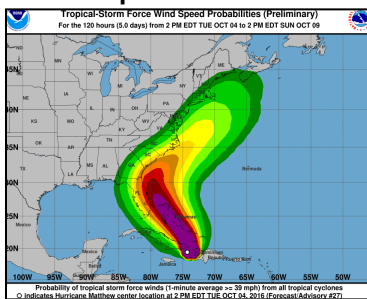
Wind Products & Utility

Forecast Track & Cone



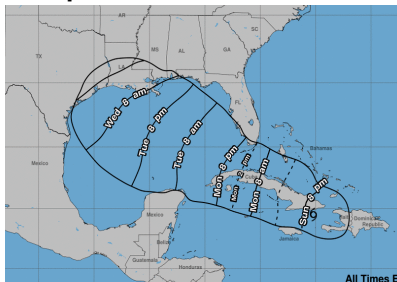
- Track forecast of storm center (historically center in cone ~ 2/3 of the time)
- Overlays both coastal & inland tropical storm & hurricane watches/warnings
- Does not show impact area of wind, surge, tornadoes or flooding rain
- Use with TC wind field → helps message TC impacts occur outside of cone
- Generalize geographical areas threatened by TC → Take focus off the track!
- Available from NHC: [hurricanes.gov](https://www.hurricanes.gov)
- NHC Product info: <https://www.nhc.noaa.gov/aboutnhcgraphics.shtml>

Wind Speed Probabilities



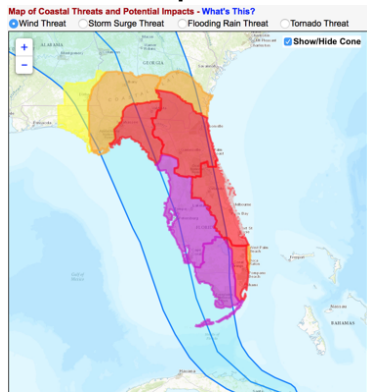
- Location specific chance of tropical storm, 58 mph & hurricane-force winds
- Cumulative chance over the next 5 days
- Accounts for uncertainties in storm track, intensity, and size (ensemble data)
- Not an areal representation - valid for specific locations only
- Shows locations w/elevated TC wind risk (despite track forecast orientation)
- Trend monitoring tool for specific locations
- Available from NHC: [hurricanes.gov](https://www.hurricanes.gov)

Time of Arrival (TOA) of Tropical-Storm-Force Winds



- Arrival time frames of TC wind onset
- Earliest Reasonable TOA:
 Large safety margin, use when low confidence
 Ex “TS force winds could arrive as early as...”
- Most-likely TOA:
 Transition to as onset time nears & confidence increases
 Ex “TS force winds will likely arrive sometime ... “ and
 “Preparations should be completed by this time...”
- Available from NHC: [hurricanes.gov](https://www.hurricanes.gov)

Hurricane Threats & Impacts (HTI) Graphics

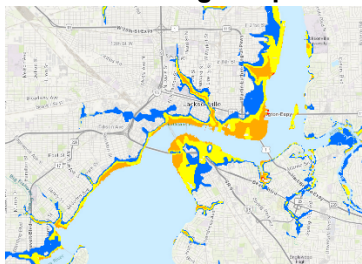


- Go-To for localized impacts & preparedness
- HTI graphics of TC threats & potential impact thresholds
- Location-specific TC hazard forecast *plus* a reasonable safety margin
- Messages extent to which preparations should be made
- Graphic is NOT forecast wind swath/image - it is RISK area
- HTI Graphics: <https://www.weather.gov/srh/tropical?office=jax>
 Replace xxx with your local NWS office ID (ex: **JAX**):
 Georgia: FFC, GSP, CAE, CHS, TAE
 Florida: MOB, TAE, JAX, TBW, MLB, MFL, KEY

Product

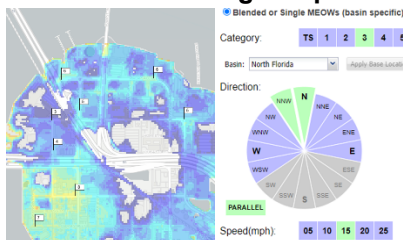
Storm Surge Products & Utility

MOM Surge Map



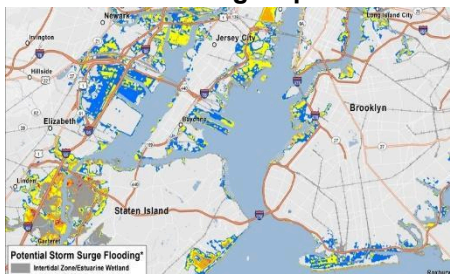
- NOT Storm Specific
- MOM: Maximum of MEOWs
- Highest water level inundation relative to Tropical Cyclone Category (regardless of storm forward speed, direction or landfall location)
- Most useful as long-range planning tool for absolute worst-case scenario
- Used for Hurricane Evacuation Zone Planning
- Available via HURREVAC: <https://hvx.hurrevac.com/hvx/home.html>
- National Storm Surge Hazard Map: <https://tinyurl.com/2p828cfw>

MEOW Surge Map



- NOT Storm Specific
- MEOW: Maximum Envelope of Water
- More specific than MOMs but not as specific as official NHC surge map
- Useful for readiness when storm is > 48 hrs away & a general sense of storm direction, forward speed & intensity are known but landfall location uncertain
- Can use via the Storm Surge Explorer in HURREVAC
- Available via HURREVAC: <https://hvx.hurrevac.com/hvx/home.html>

NHC Potential Storm Surge Flooding Map



- Storm Specific
- Depicts a reasonable worst-case surge scenario at individual locations
- 10% chance that inundation will be higher than the map value (90% chance inundation will be lower)
- Available within 48 hrs of expected onset of TS force winds (watch phase)
- Displays surge inundation *potential* locations & surge heights above ground
- Does NOT: Provide a storm surge forecast nor provide a flood footprint
- May not match forecast values indicated in the NHC Public Advisory or HLS
- Available from NHC: hurricanes.gov

NHC Peak Storm Surge Forecast



- Storm Specific from NHC Storm Surge Unit
- Depicts the expected storm surge inundation values for the U.S. coasts
- Values represent the peak height the surge could reach above normally dry ground somewhere in the specified area
- Available from NHC: hurricanes.gov

Storm Surge Watches/Warnings



- Identifies coastal areas with significant risk of life-threatening storm surge inundation (≥ 3 ft inundation above ground level)
- Watch: Issued when the possibility of life-threatening surge inundation within 48 hrs is possible somewhere in the watch area
- Warning: Issued when life-threatening surge inundation is expected within 36 hrs somewhere in the warning area
- Could be issued for locations potentially isolated by inundation even if that location is not expected to receive life-threatening surge
- Available from NHC: hurricanes.gov