Florida Tropical Training Week 2025

PRESENTED BY NATIONAL WEATHER SERVICE FLORIDA OFFICES





- 1. Showcase tools to help you assess your vulnerability.
- 2. Identify & interpret credible forecast resources.
- 3. Answer the question...

"What should I be doing now?"



TODAY

TRAINING TIMELINE

DAY 1

DAY 2 (Tues)

DAY 3 (Wed)

DAY 4 (Thurs)

Seasonal Readiness & Monitoring the Tropics Gearing Up for Potential Impacts

Sheltering & Hunker-Down Mode

Post-Storm Safety Lessons Learned

https://www.weather.gov/jax/FloridaTropicalTrainingWeek2025





TODAY'S TEAM

Jenn Hubbard, Presenter **NWS TBW** Warning Coordination Meteorologist

Robert Garcia, Presenter NWS MFL Warning Coordination Meteorologist



Paige Klingler, Chat **NWS JAX** Meteorologist

Felecia Bowser, Chat **NWS TAE** Meteorologist-in-Charge



Angie Enyedi, Chat **NWS JAX** Lead Meteorologist





THIS AFTERNOON'S TEAM

Angie Enyedi, Presenter NWS JAX Lead Meteorologist

Matt Anderson, Presenter NWS TBW Science and Operations Officer





Bryce Tyner, Chat NWS KEY Lead Meteorologist

Kennedy Tart, Chat FDEM
Assistant Meteorologist









THIS EVENING'S TEAM

Kelly Godsey, Presenter **NWS TAE** Senior Service Hydrologist

Matt Anderson, Presenter **NWS TBW** Science and Operations Officer





Keily Delerme, Chat **NWS TBW** Meteorologist

Kennedy Tart, Chat **FDEM**



Assistant Meteorologist



Morgan Barry, Chat

NWS MOB

Prepare What can you do NOW? Ready

Seasonal Readiness

Monitoring the TropicsDays 6-7

Gearing Up for ImpactsDays 3-5

Hunker Down < 48 hrs to Impact

Post-Storm Safety

Identifying Your vulnerability

Credible Forecast Sources

Tropical Monitoring tools

Seasonal Preparedness – What Does it look like?

Poll Question

What part of Florida do you live in?

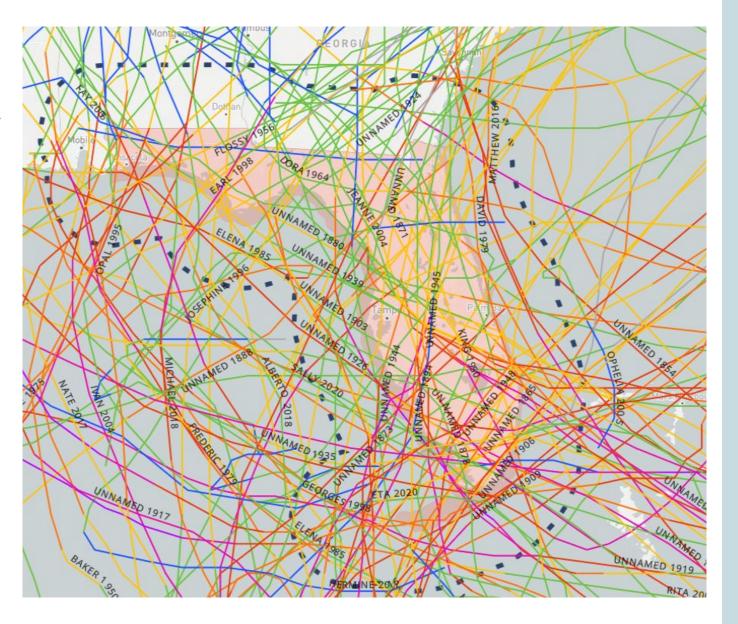


PERSONAL VULNERABILITY

PATHS OF KNOWN TROPICAL STORMS & HURRICANES SINCE 1842 WITHIN 60 MILES OF FLORIDA

Did You Know...

The term "tropical cyclone" includes tropical depressions, tropical storms & hurricanes.



PREPARE - KNOW YOUR RISK

What is your tropical cyclone risk?

Visualize past tracks & frequency

Available Source:

https://coast.noaa.gov/hurricanes





Tracks of known tropical storms & all hurricane within 100 miles of Duval county since 1851

Hurricane Preparedness

Get an Insurance Checkup





Check with your agent



Know your policy



Consider flood insurance



Keep documents with you



PREPARE REGISTER FOR EVACUATION ASSISTANCE

When to consider registering:

- If you need evacuation assistance to a public shelter
- If you rely on electricity or need assistance accessing medication during a disaster

https://snr.flhealthresponse.com/







TROPICAL CYCLONE HAZARDS

STORM SURGE FLOODING RAINFALL

WIND

TORNADOES

COASTAL HAZARDS

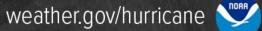


Poll Question

Since 2013, what is the tropical hazard directly responsible for the most tropical cyclone deaths in the U.S.?

- a.) Storm Surge
- b.) Freshwater Flooding
- c.) Wind
- d.) Tornadoes
- e.) Coastal Hazards







Know Your Risk: Water & Wind



Consider your threats: storm surge, flooding from heavy rain, strong winds, tornadoes, rip currents



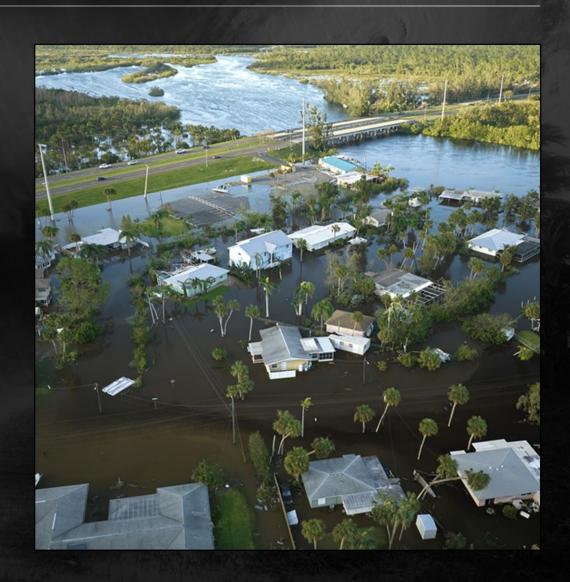
Determine if you live in a flood-prone area



Find out if you live in an evacuation zone



Identify your home's structural risks (mobile homes & basements can be especially vulnerable)







LOCATION

PROXIMITY TO COAST, INTRACOASTAL WATERWAY, TIDAL RIVERS INCREASES RISK



ELEVATION

STRUCTURES NOT ELEVATED NEAR TIDAL BODIES OF WATER HAVE GREATER SURGE RISK



STRUCTURE

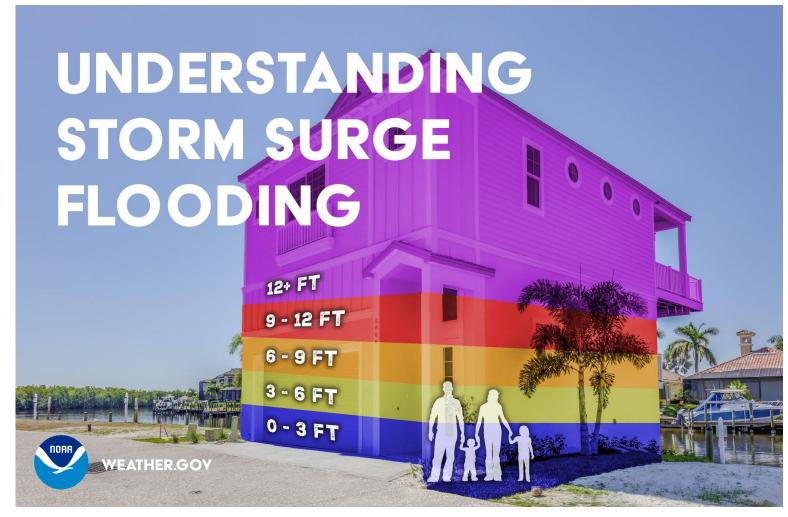
STRUCTURAL COMPOSITION &
INTEGRITY INFLUENCES RESILIENCE
TO STORM SURGE WATER – WOOD
MORE VULNERABLE, CONCRETE
BLOCK LESS VULNERABLE

STORM SURGE

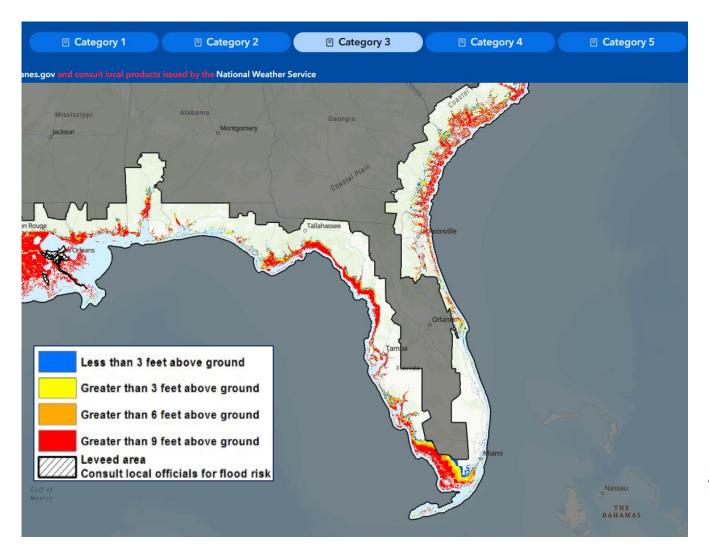
Storm surge > 3 feet is considered life-threatening

Forecasts in 'still water' heights (example, pool depth)

Consider destructive wind waves on top of storm surge!



Storm Surge Risk Assessment Tool



Displays Maximum Storm Surge Inundation value by Hurricane Category

- Identifies surge prone areas
- NOT for active storms! Use BEFORE storm to identify your surge vulnerability
- Intended use as a long-range planning tool
- Actual event storm surge is a result of MANY factors

SURGE RISK

Available from National Hurricane Center:

https://experience.arcgis.com/experience/203f772571cb48b1b8b50fdcc3272e2c

FLOOD ZONES vs EVACUATION ZONES

FLOOD ZONES

- Mapped by FEMA
- Represented by Letter(s)
- Tells homeowner the risk of property flooding from flooding rainfall
- Does NOT relate to storm surge

EVACUATION ZONES

- Determined by local emergency managers
- Identifies areas prone to storm surge inundation during tropical events
- Areas that may be evacuated during a tropical event





LOCATION

PROXIMITY TO INLAND LAKES, RIVERS, CREEKS, LOW-LYING AND/OR POOR DRAINAGE AREAS



ELEVATION

STRUCTURES NOT ELEVATED NEAR INLAND BODIES OF WATER OR NEAR POOR DRAINAGE AREAS HAVE GREATER FLOOD RISK



FEMA Flood Zones

https://msc.fema.gov/portal/search

Poll Question

Do you know your evacuation zone?



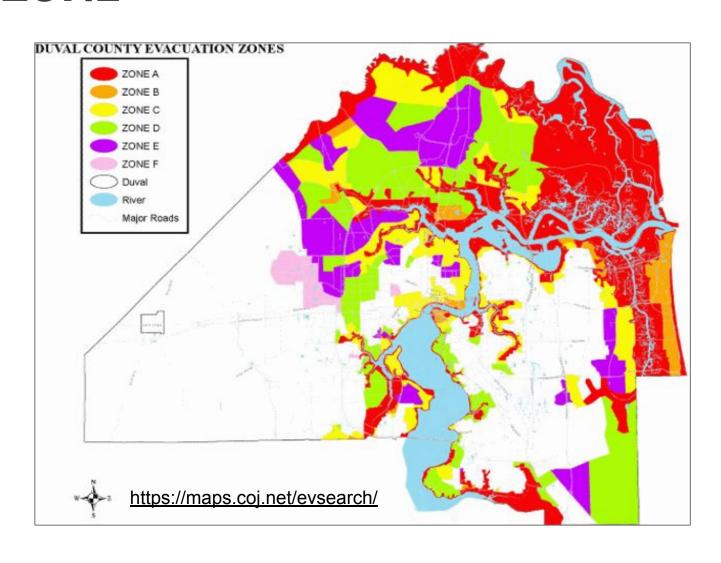
PREPARE - KNOW YOUR ZONE

Are you in an evacuation zone? Are you flood prone? Are nearby roads flood prone?

Are you able to be self-sufficient for numerous days?

Visit your County Emergency Management Website for Evacuation Zone Map or FL Division of Emergency Management:





www.floridadisaster.org/knowyourzone



WIND RISK

STRUCTURE INTEGRITY



NEWER CONSTRUCTION = NEWER BUILDING CODES

FL CONSTRUCTION SINCE 2002 MUST HAVE:

- ✓ IMPACT-RESISTANT GLASS OR SHUTTERS
- ✓ WITHSTAND HURRICANE FORCE WINDS



STRUCTURE EXPOSURE

LARGE TREES OR TALL OBJECTS NEAR HOME

FACING OPEN AREAS - WIND EXPOSURE

WIND EXPOSURE

LARGE SURFACE AREA FACING WIND

MOBILE & MODULAR HOMES: WIND ROLLS, BLOWS or LIFTS OFF OF FOUNDATION

CONSIDER ROOF & MOBILE HOME TIE DOWNS

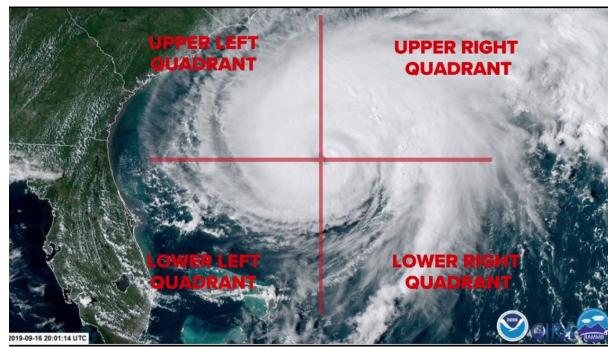


TORNADOES

TORNADOES ASSOCIATED WITH TROPICAL CYCLONES ARE NOT UNCOMMON.

TROPICAL CYCLONE TORNADOES ARE MOST COMMONLY OBSERVED IN THE UPPER RIGHT QUADRANT OF THE STORM (RELATIVE TO THE MOTION OF THE STORM).





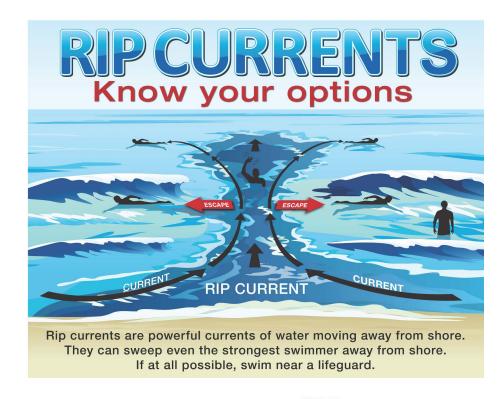
COASTAL HAZARDS

Dangerous rip currents & high surf can lead to very dangerous conditions well-ahead of a storm.

If caught in a rip current..

- → Try to stay calm
- → Don't fight the current
- → Swim out of the current, then to shore
- → If you can't escape, float or tread water

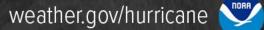
Always swim at beaches with lifeguards.











Prepare Before Hurricane Season



Develop an evacuation plan



Assemble disaster supplies: food, water, batteries, charger, radio, cash



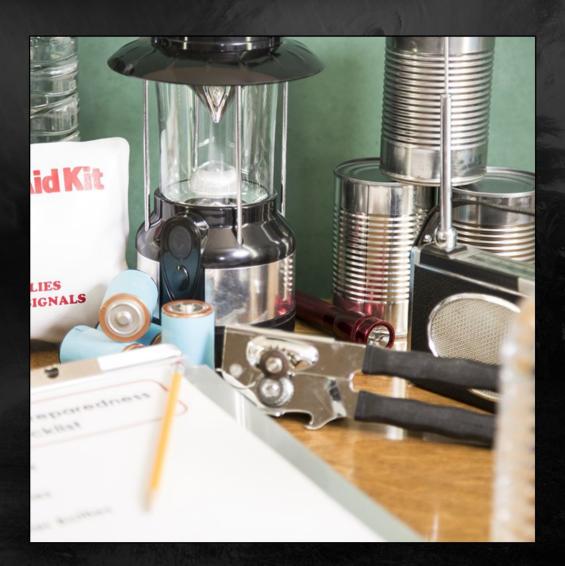
Get an insurance checkup and document your possessions



Create a communication plan with a hand-written list of contacts



Strengthen your home



PREPARE STOCK UP SUPPLY KIT

Did You Know??

FL Statutes (below) state that you may be able to receive up to a 30-day supply of prescription medicine in advance when a tropical cyclone threatens your location. Please refer to the below sources for more details.



Enough medicines

FL Statute 465.0275

https://www.flsenate.gov/Laws/Statutes/2024/0465.0275

FL Statute 252.358

https://www.flsenate.gov/Laws/Statutes/2022/0252.358

Special Dietary Needs

Medical items

Comfort items

Pet items

Consider shared resources with neighbors

Available Guidance: www.ready.gov/kit

PREPARE - MAKE EVACUATION & SHELTER PLAN



Where will you go?

How will you get there?

Does shelter accept pets?

When will you go?

Available Guidance: www.ready.gov/plan

Hurricane Preparedness

Complete a Written Plan





Have a contact list



Keep critical documents together for quick access



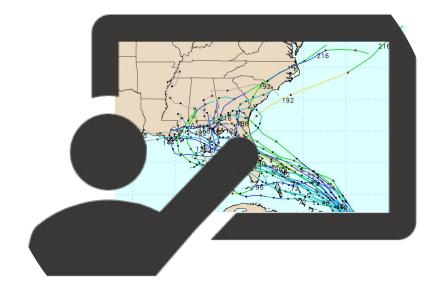
Have at least one contact outside of the impact area



Share your plan







FORECAST SOURCE CAUTION

SENSATIONALISM VS SCIENCE SIGNS



- ✓ Show one forecast model
- ✓ Specific impacts too early
- ✓ Early landfall prediction



SOCIAL MEDIA-ROLOGISTS

Hype vs Science

Clicks vs Credibility

Distant Friends/Family (good intentions)



ANCHORING BIAS

People tend to base actions on first forecast

Dangerous for appropriate preparedness

Monitor storm forecast/updates



ONE TEAM





National Hurricane Center Storm Scale Forecasts – Size, Intensity & Track

www.hurricanes.gov



Local National Weather Service Offices

Downscale NHC Forecasts to Local Area (what to prepare for, where, when)

www.weather.gov - find your local office

Tropical Weather Forecasts

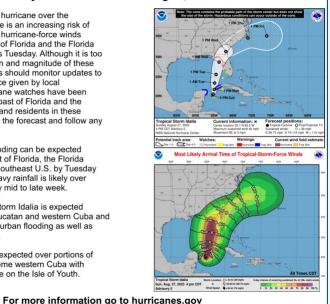
National Hurricane Center

Storm forecast – size, intensity, track Regional Scale View & Impacts National & State Level Support



Key Messages for Tropical Storm Idalia Advisory 5: 4:00 PM CDT Sun Aug 27, 2023

- 1. Idalia is forecast to become a hurricane over the eastern Gulf of Mexico, and there is an increasing risk of life-threatening storm surge and hurricane-force winds along portions of the west coast of Florida and the Florida Panhandle beginning as early as Tuesday. Although it is too soon to specify the exact location and magnitude of these impacts, residents in these areas should monitor updates to the forecast and follow any advice given by local officials. Storm surge and hurricane watches have been issued for portions of the west coast of Florida and the coast of the Florida Panhandle, and residents in these areas should monitor updates to the forecast and follow any advice given by local officials.
- Scattered flash and urban flooding can be expected across portions of the west coast of Florida, the Florida Panhandle and portions of the Southeast U.S. by Tuesday into Thursday. Flooding from heavy rainfall is likely over portions of the southeast U.S. by mid to late week.
- Heavy rainfall from Tropical Storm Idalia is expected across portions of the eastern Yucatan and western Cuba and may produce areas of flash and urban flooding as well as landslides across western Cuba.
- 4. Tropical storm conditions are expected over portions of the Yucatan Peninsula and extreme western Cuba with tropical storm conditions possible on the Isle of Youth.



National Weather Service Offices

Downscale NHC forecast for local area County to City level View & Impacts State & County Level Support

Tropical Storm Idalia Potential Impacts

Impacts Anticipated Tuesday Night Through Wednesday

Wind

Aboyy Variets Tallohasee Jacksonville Jamesville Pulm Coast Orlande

- Hurricane/Tropical Storm force winds expected across NE FL and most of SE GA
 Widespread fallen trees, power
- outages and damage to structures and mobile homes especially along the I-75 corridor

Storm Surge



- 1-4 ft of surge possible for Atlantic coast, ICWW & St. Johns. Higher surge expected along SE GA coast
- High risk of rip currents

Flooding Rain



- 2-6 inches, isolated 8-10 inches possible
- Potential for flash, urban and river flooding
- Streets will flood and rivers may overflow their banks

Tornado



- Several tornadoes possible along and east of Highway 301
- Isolated tornadoes across
 NE FL & SE GA

Last Updated: 8/29/2023 5:49 AM http://www.weather.gov/srh/tropical?office=jax

National Weather Service - Jacksonville El





FEMA APP

Free

Bilingual

Set alerts for up to 5 locations

Customize alerts

Pre - & Post - Storm Guidance

Local Shelter Information





Seven-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Monitor What's out there?

Seasonal **Readiness** **Monitoring** the Tropics **Days 6-7**

Get Ready

Days 3-5

Hunker Down < 48 hrs to Impact **Post Storm** Safety

What's out there?

What can you do now?

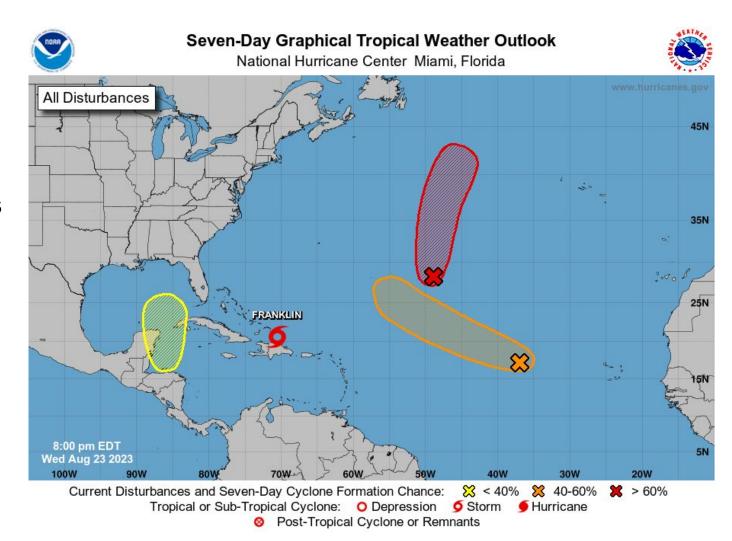
MONITOR – TROPICAL WEATHER OUTLOOK

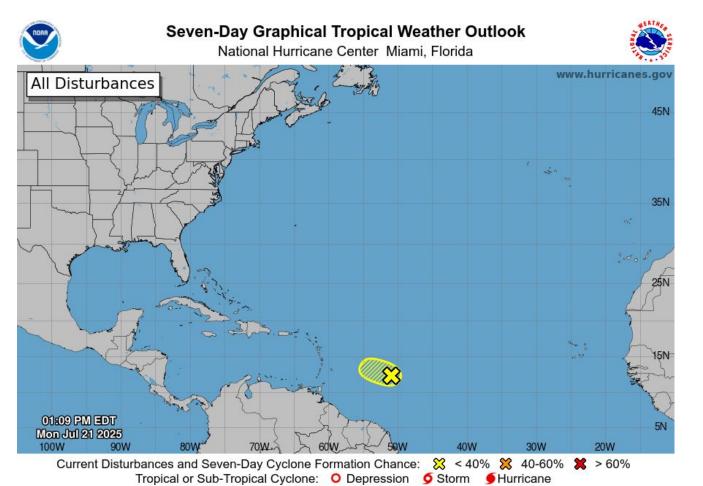
"Something's Brewing"

Potential tropical development areas

Where surface low may form: NOT impact areas!

Available National Hurricane Center www.hurricanes.gov





Post-Tropical Cyclone or Remnants

A weak area of low pressure east of the Lesser Antilles is less organized. Conditions are expected to become unfavorable for tropical cyclone development over the next few days. Formation chance 10%.

What to do now:

- Stock Supply Kits
- Review Hurricane Plans
- Know your Evacuation Zone
- Monitor here: <u>www.hurricanes.gov</u>

NATIONAL WEATHER SERVICE

Tropical Cyclone Products & Messaging Strategy



> 5 Days

3-5 Days



< 48 hrs



Impacts

MONITOR – REVIEW PLANS & STOCK UP

Monitor Trusted Sources

Finish Stocking Supply Kit www.ready.gov/kit

Review Shelter & Evacuation Plans www.ready.gov/plan

Reach out to Family/Friends



weather.gov/hurricane

Take Action Today



Determine your risk from water & wind



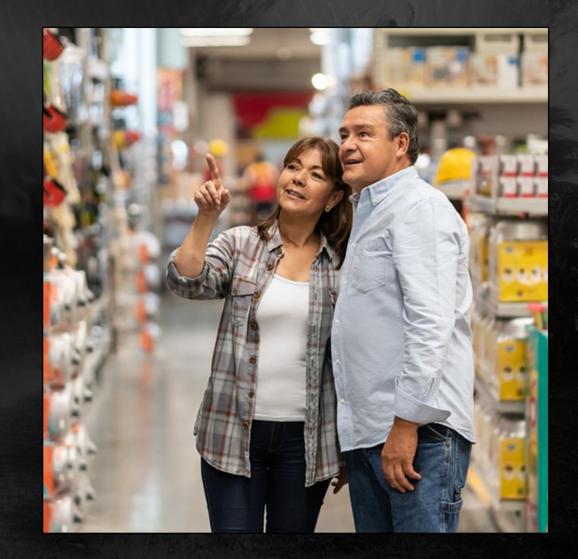
Begin preparing now, before a storm



Learn how to understand hurricane forecasts and alerts



Learn what to do before, during, and after a storm



Program Website





BE PREPARED. STAY AWARE.

Submit questions



https://www.weather.gov/jax/FloridaTropicalTrainingWeek2025

