

PRESENTED BY NATIONAL WEATHER SERVICE FLORIDA OFFICES



TODAY

TRAINING TIMELINE

DAY 1

DAY 2 (Tues)

DAY 3 (Wed)

DAY 4 (Thurs)

Monitoring the Tropics & Seasonal Readiness Get Ready for Potential Impacts

Sheltering & Hunker-Down Mode

Post-Storm Safety Lessons Learned

https://www.weather.gov/jax/FloridaTropicalTrainingWeek2024





- 1. SHOWCASE TOOLS TO HELP YOU ASSESS YOUR VULNERABILITY.
- 2. IDENTIFY & INTERPRET CREDIBLE FORECAST RESOURCES.
- 3. OFFER GUIDANCE THAT ANSWERS...

"What should I be doing now?"

11 am EDT TEAM

Angie Enyedi

NWS JAX Lead Meteorologist



Paige Klingler

NWS JAX Meteorologist



Ben Nelson

NWS JAX Lead Meteorologist



Caitlyn Gillespie

Meteorologist

Florida Division of

Emergency Management



1 pm EDT TEAM

Angie Enyedi

NWS JAX Lead Meteorologist



Paige Klingler

NWS JAX Meteorologist



Ben Nelson

NWS JAX Lead Meteorologist



Amy Godsey
State Meteorologist
Florida Division of

Emergency Management



7 pm EDT TEAM

Mark Wool

NWS TAE Warning Coordination Meteorologist



Angie Enyedi

NWS JAX Lead Meteorologist



Morgan Barry

NWS MOB Lead Meteorologist



Paige Klingler

NWS JAX Meteorologist



9 pm EDT TEAM

Kelly Godsey

NWS TAE Senior Service Hydrologist



Ben Nelson

NWS JAX Lead Meteorologist



Paige Klingler

NWS JAX Meteorologist



Morgan Barry

NWS MOB Lead Meteorologist





Prepare

Monitor Days 6-7

Get ReadyDays 3-5

Hunker Down < 48 hrs to Impact

RecoverAfter Storm

Identifying Your vulnerability

Credible Forecast Sources

Tropical Monitoring tools

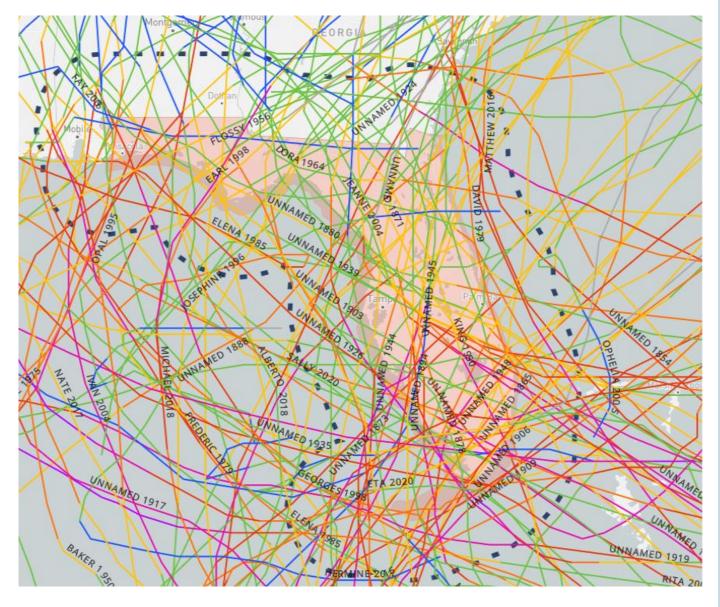
Seasonal Preparedness – What Does it look like?

PERSONAL VULNERABILITY

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

DYK...

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/



Image FEMA

TROPICAL CYCLONE HAZARDS

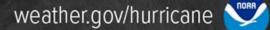
STORM SURGE FLOODING RAINFALL

WIND

TORNADOES

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)





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







LOCATION

PROXIMITY TO COAST, INTRACOASTAL WATERWAY, TIDAL RIVERS INCREASES RISK



ELEVATION

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



STRUCTURE

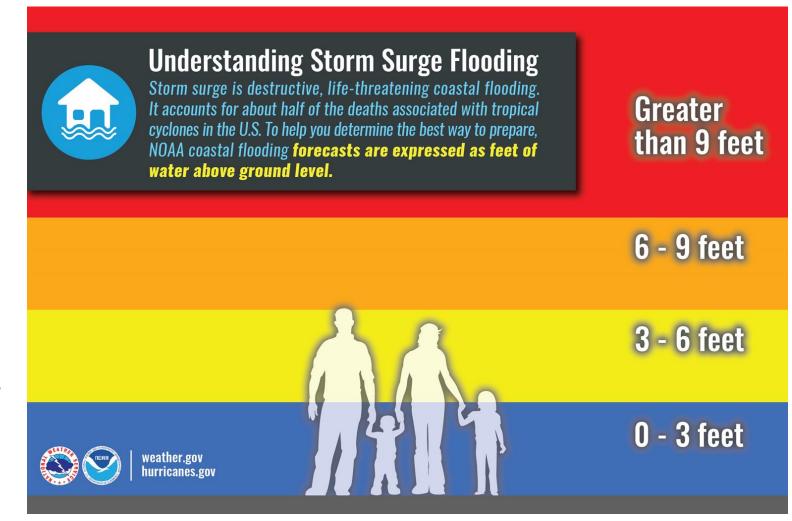
STRUCTURAL COMPOSITION &
INTEGRITY INFLUENCES RESILIENCE
TO STORM SURGE WATER – WOOD
MORE VULNERABLE, CONCRETE
BLOCK LESS VULNERABLE

STORM SURGE

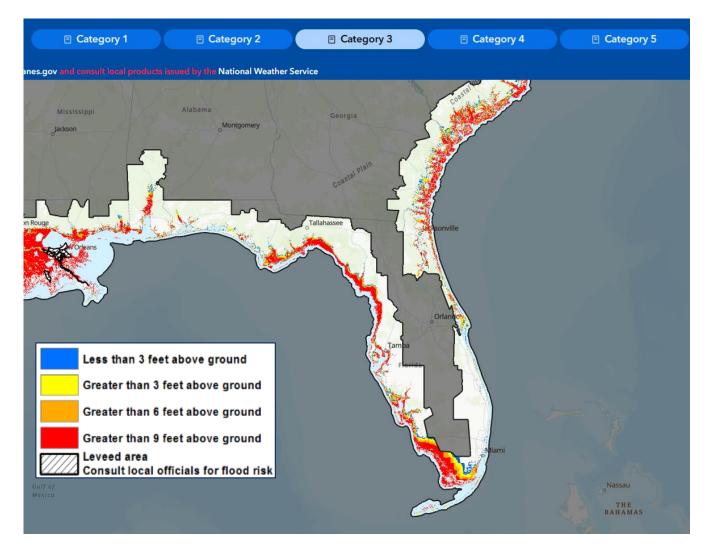
Storm surge > 3 feet is considered life-threatening

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

Available from National Hurricane Center:



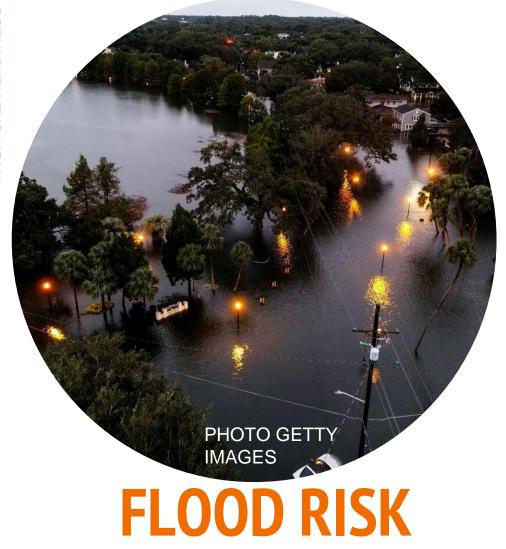
FLOOD ZONES vs EVACUATION ZONES

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

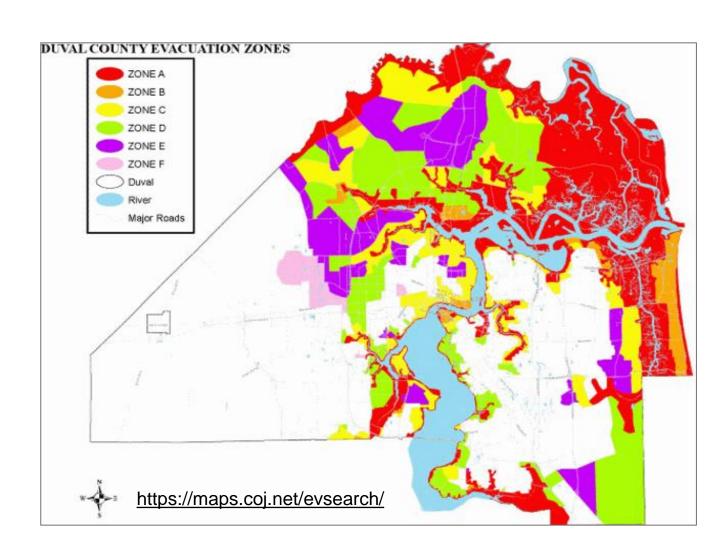
PREPARE - KNOW YOUR ZONE

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



Prepare Before Hurricane Season



Develop an evacuation plan



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



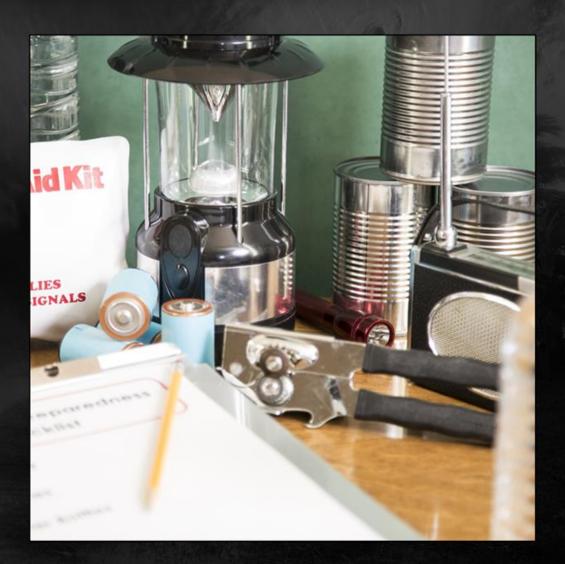
Get an insurance checkup and document your possessions



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



Strengthen your home



PREPARE STOCK UP SUPPLY KIT

DYK...

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

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.nhc.noaa.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

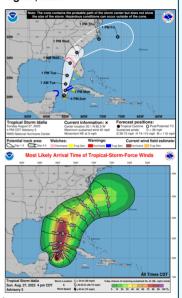
National Hurricane Center

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

- I. 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

Tro

Tropical Storm Idalia Potential Impacts

Impacts Anticipated Tuesday Night Through Wednesday

Wind

VVIII COMMON COM



- 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

For more information go to hurricanes.gov

Last Updated: 8/29/2023 5:49 AM

http://www.weather.gov/srh/tropical?office=jax

National Weather Service - Jacksonville, FL





FEMA APP

Free

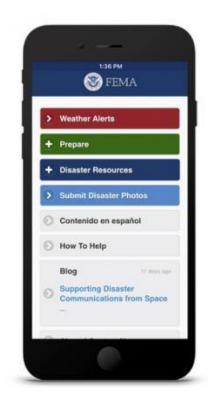
Bilingual

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





Prepare

Monitor Days 6-7

Get Ready

Days 3-5

Hunker Down

< 48 hrs to Impact After Storm

Recover

What's out there?

What can you do now?

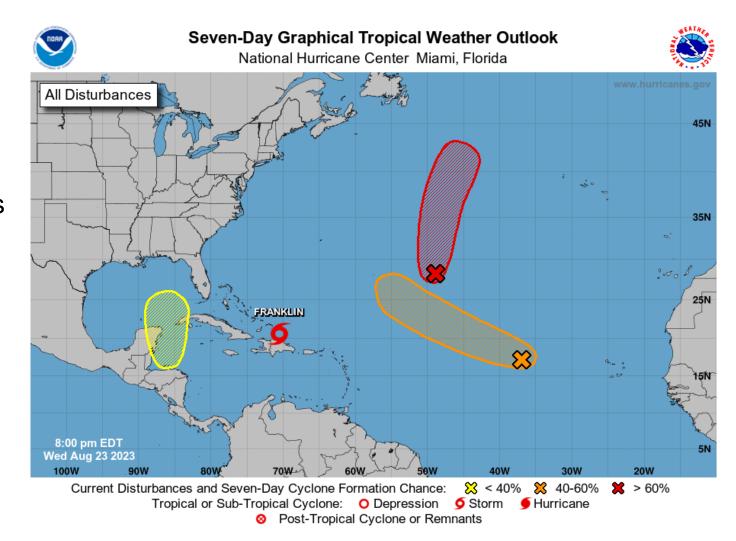
MONITOR – TROPICAL WEATHER OUTLOOK

"Something's Brewing"

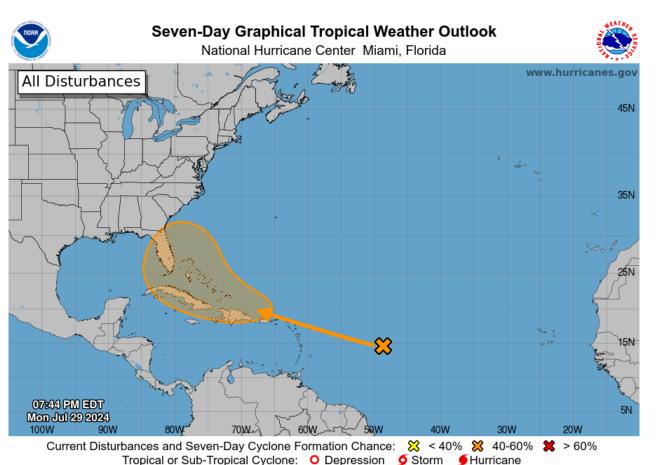
Potential tropical development areas

Where surface low may form: NOT impact areas!

Available National Hurricane Center www.nhc.noaa.gov



CURRENT – TROPICAL WEATHER OUTLOOK



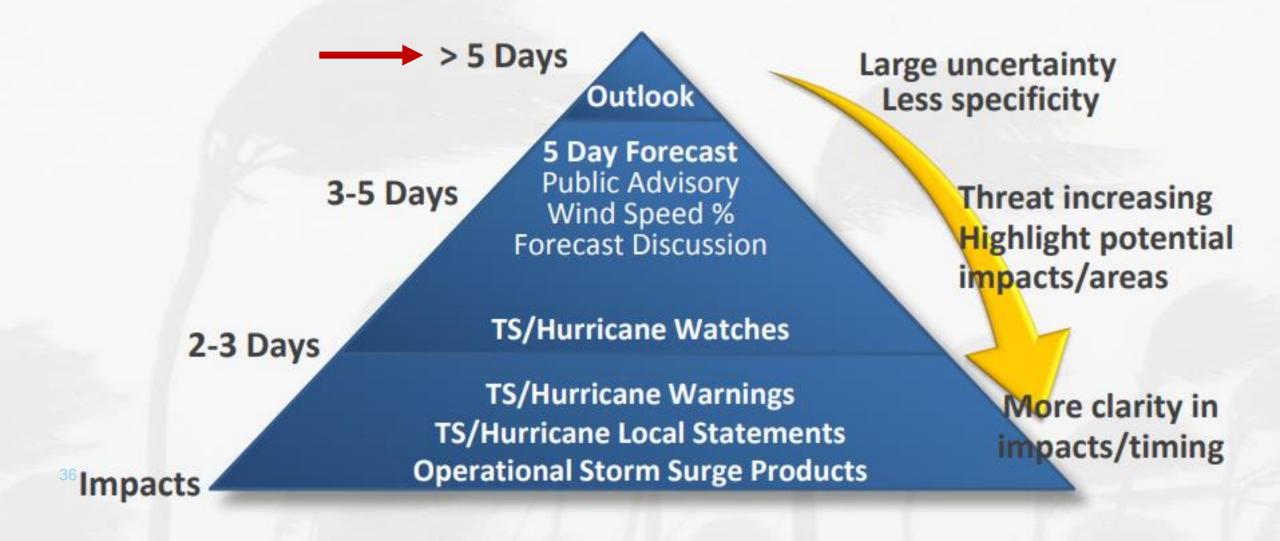
Post-Tropical Cyclone or Remnants

There is a 50% chance that the center of a tropical cyclone forms in the orange shaded area in the next 7 days

What to do now:

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

NATIONAL WEATHER SERVICE Tropical Cyclone Products & Messaging Strategy



Tropical Cyclone Threat Potential

One-stop-shop for localized "What to Prepare For"

"Reasonable Worst-Case" Scenario - NOT a forecast graphic

Probability Power = These Graphics Account for Forecast Uncertainty



MOB - Mobile

TAE - Tallahassee

KEY - Key West

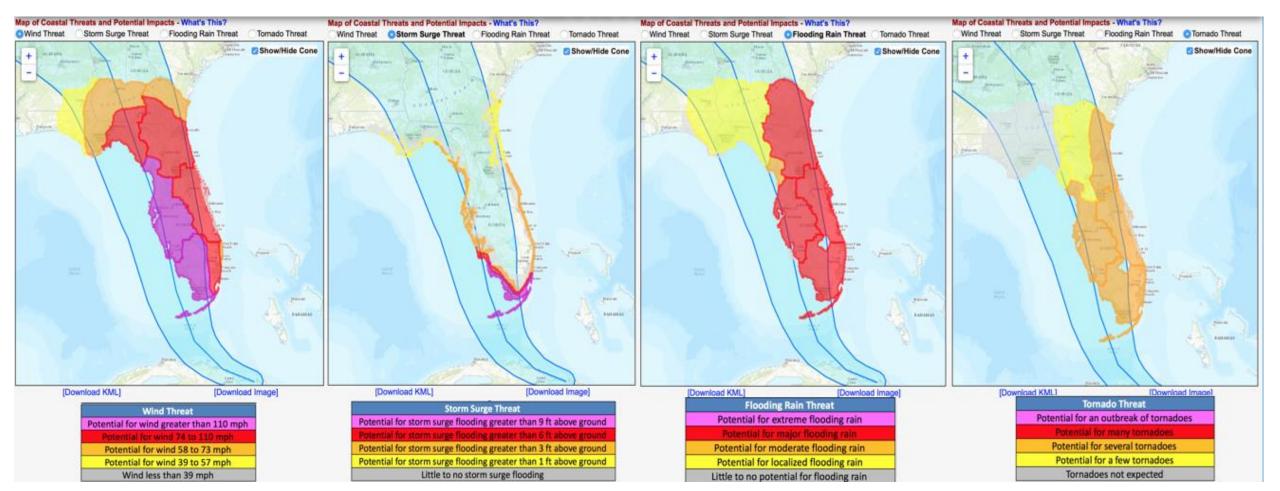
TBW - Tampa

MLB - Melbourne

MFL- Miami

JAX - Jacksonville

https://www.weather.gov/srh/tropical?office=jax



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



Take Action Today



Determine your risk from water & wind



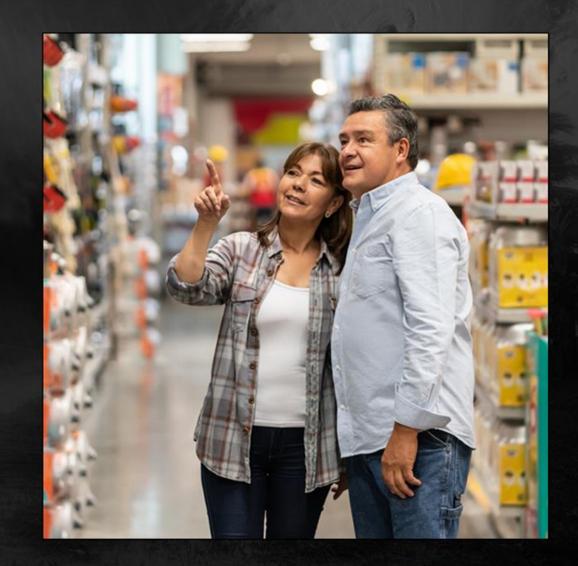
Begin preparing now, before a storm



Learn how to understand hurricane forecasts and alerts



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





TOMORROW

DAY 1

Monitoring the

Tropics

Seasonal

Readiness

DAY 2

Get Ready

for

Potential

Impacts

DAY 3

Sheltering &

Hunker-Down

Mode

DAY 4

Post-Storm

Safety

Lessons

Learned

Go to this form to submit





TRAINING TIMELINE





Submit questions



https://www.weather.gov/jax/FloridaTropicalTrainingWeek2024

WWW.WEATHER.GOV



WWW.HURRICANES.GOV