

# Hurricane Irma

9/8/2017 5:00 AM EDT

Northeast Florida and Southeast Georgia



Jacksonville, FL  
Weather Forecast Office

- Hurricane Irma poses a threat to northeast Florida and southeast Georgia on Sunday and Monday.
- The region is in the three to four day Cone of Uncertainty with the storm moving across north central and northeast Florida as a hurricane.
- Do not concentrate on any one model run or forecast at this point. ***Track errors in this time period are about 125 miles and intensity errors during this period are also large.***
- Regardless of Irma's ultimate track, large destructive wave action and above normal astronomical tides may result in further damage to coastal infrastructure weakened by Matthew.

Briefing Time: 9/8/2017 5:48 AM

Caution: Do Not Use Beyond Six (6) Hours from Briefing Time.

US National Weather Service Jacksonville

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# Hurricane Irma

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# CAUTION

**Hurricane Conditions May Pose a Direct Threat to  
North Florida and Southeast Georgia Within the  
Next 72 Hours.**

**Please Heed the Advice of Local Emergency  
Managers and Officials. Remember Some  
Preparedness Actions May Need To Be Taken Before  
Warnings Are Issued.**

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## Northeast Florida and Southeast Georgia



- 6 Hurricane Irma poses a threat to northeast FL and southeast GA on Sunday and Monday.
- 6 The region is within the three to four day Cone of Uncertainty
- 6 Do not concentrate on any one model run or forecast at this point. Track errors in this time period are about 125 miles and intensity errors during this period are also large.
- 6 Regardless of Irma's ultimate track, large destructive wave action and above normal astronomical tides may result in further damage to coastal infrastructure weakened by Matthew.

*Note: Do not focus on the exact track (The points). Impacts can occur, and should be expected, well outside of the area enclosed by the cone.*

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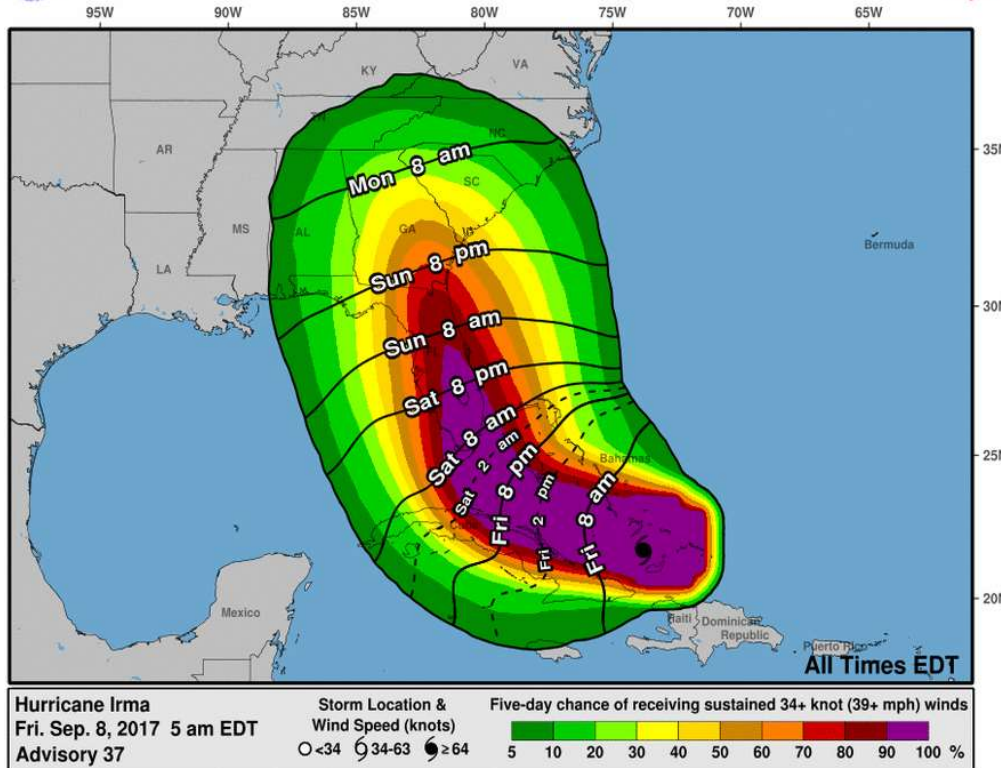
# Hurricane Irma

## Northeast Florida and Southeast Georgia



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### Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



- The earliest reasonable time of arrival of Tropical Storm Force Winds for The region is...
  - Sunday Morning for NE Florida
  - Sunday Afternoon for SE Georgia
- Storm Preparations should be completed by this time.

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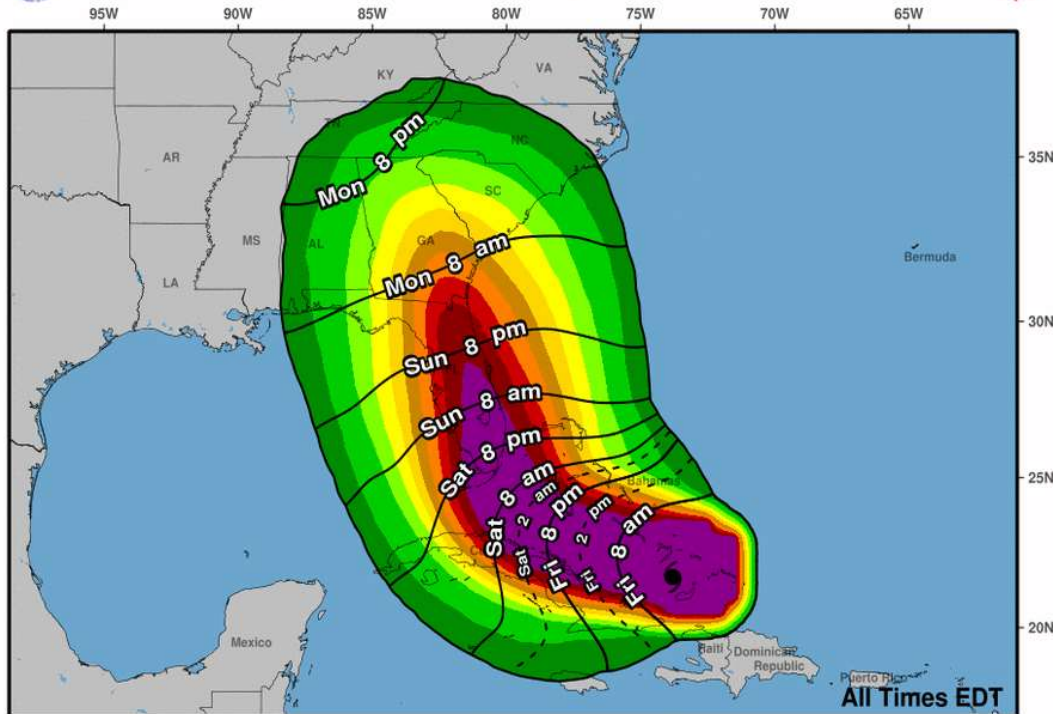
# Hurricane Irma

## Northeast Florida and Southeast Georgia



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### Most Likely Arrival Time of Tropical-Storm-Force Winds



- The most likely time of arrival of Tropical Storm Force Winds for the region is...
  - Sunday Evening for northeast Florida
  - Overnight Sunday for southeast Georgia.

Hurricane Irma  
Fri. Sep. 8, 2017 5 am EDT  
Advisory 37

Storm Location & Wind Speed (knots)  
○ <34   ○ 34-63   ● ≥64

Five-day chance of receiving sustained 34+ knot (39+ mph) winds  
5 10 20 30 40 50 60 70 80 90 100 %

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# High Astronomical Tides Sept 9<sup>th</sup> & 10<sup>th</sup>



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**Northeast Florida and Southeast Georgia**

**Mayport Bar Pilot**

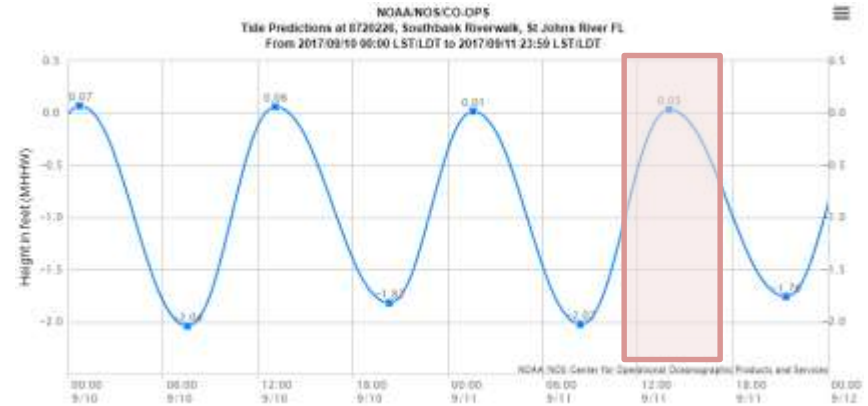
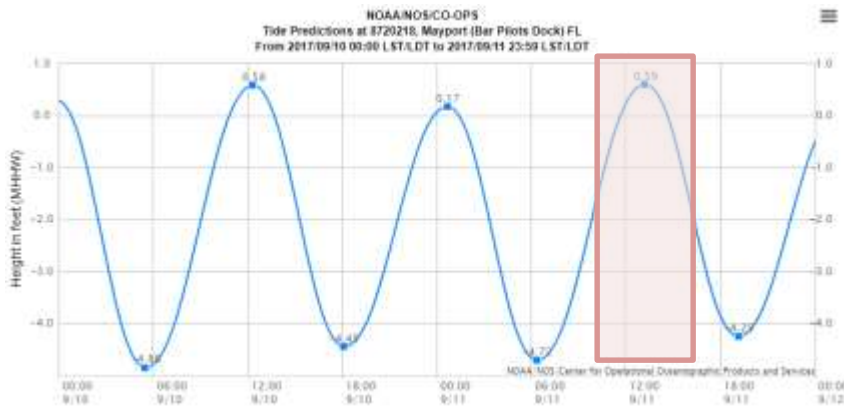
**9/10-11/2017**

**Flood Stage is 1.84' MHHW**

**Main Street Bridge**

**9/10-11/2017**

**Flood Stage is 1.37' MHHW**



**These tides are already about ½ to 1 foot below minor flooding even before any water level rises from Irma's winds and waves.**

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# Hurricane Irma *FIRST GUESS* Storm Surge

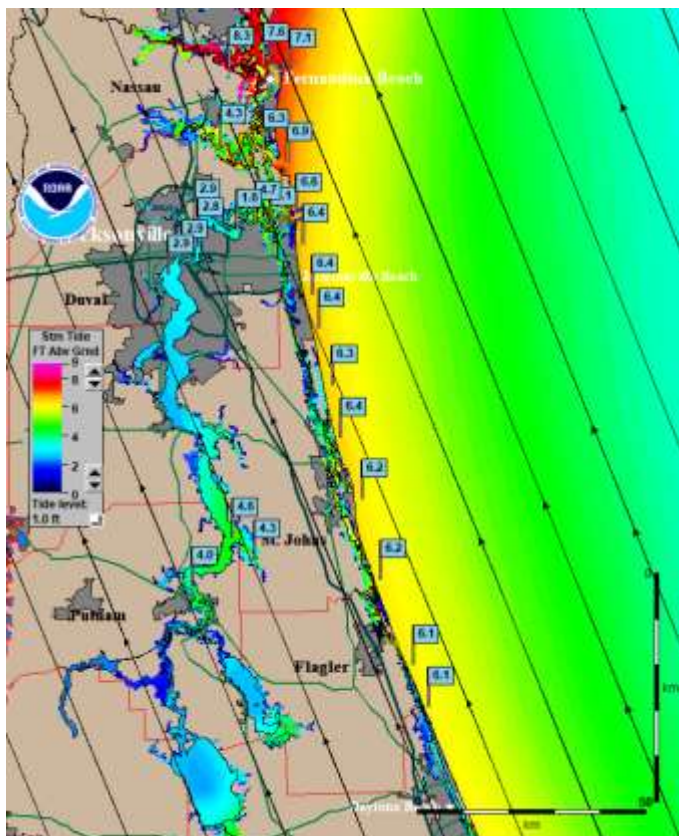
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SLOSH MEOW for a Category 2 Hurricane moving NNW @ 15mph at high tide - AGL

## FIRST GUESS Risks



- **Areas of greatest risk but HIGHLY dependent upon the ultimate storm track:**
  - Oceanfront: 6 to 8 feet Above Ground Level (AGL)
  - St Johns River, Entrance to Blount Island: 6 to 8 feet
  - St. Johns Blount Island to Downtown: 3 to 5 feet
  - St Johns Downtown to Lake George: 3 to 6 feet
  - Intracoastal Waterway: 5 to 7 feet
  - Nassau River: 5 to 7 feet
  - Amelia River: 6 to 8 feet

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# Hurricane Irma *FIRST GUESS* Storm Surge

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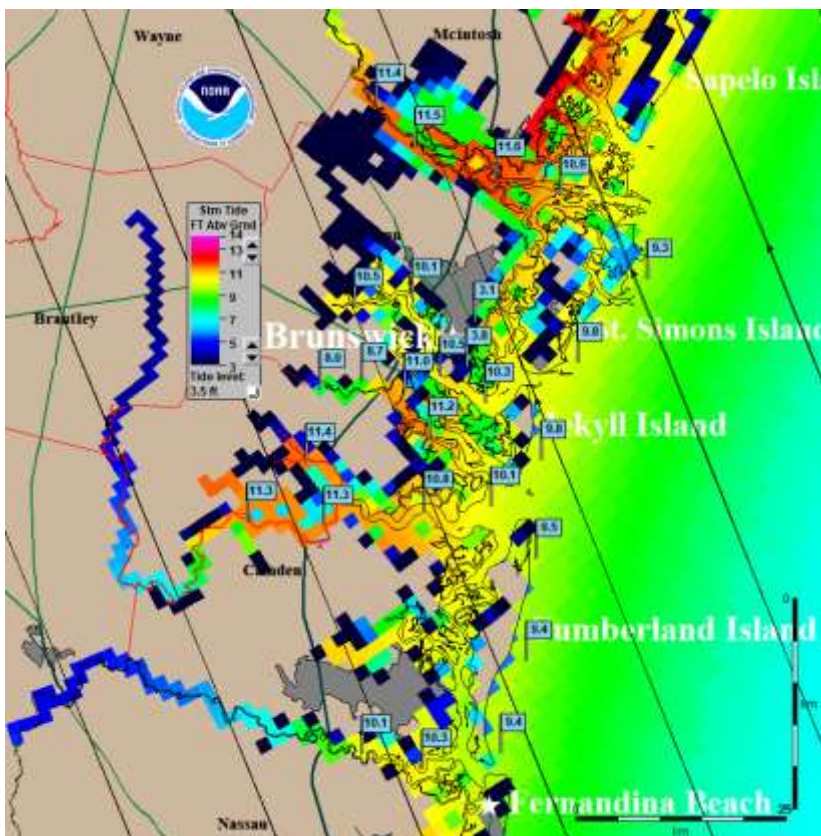
Jacksonville, FL  
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SLOSH MEOW for a Category 2 Hurricane moving NNW @ 15mph at high tide - AGL

## FIRST GUESS Risks

• **Areas of greatest risk but HIGHLY dependent upon the ultimate storm track:**

- Oceanfront: 8 to 10 feet Above Ground Level (AGL) in general
- Altamaha River and Satilla River Basins: 10 to 12 feet AGL
- St Marys River east of I-95: 8 to 10 feet AGL.
- Estuaries, City of Brunswick and Intercoastal waterway: 4 to 8 feet AGL.



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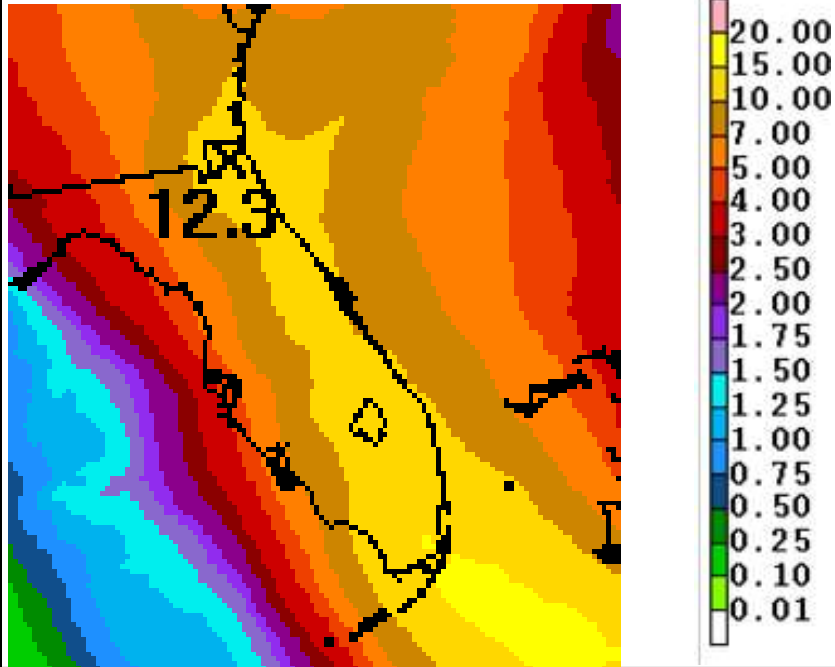
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## Heavy Rainfall

- Coastal NE FL & SE GA could see 10 to 12 inches of rain
- Inland areas could range from 5 to 10 inches.



## Tornadoes

- Based on this track, there is also an increased risk of tornadoes for our area.
- Areas northeast and east of Irma's center have the greatest risk

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# Hurricane Irma Main Points



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- Irma's three to four day OUTLOOK position remains in our region, with hurricane force winds possible in north central and northeast Florida and tropical storm force winds throughout much of southeast Georgia.
- As with Hurricane Matthew last year, small changes in track may greatly influence our ultimate DIRECT impacts.
- Regardless of the ultimate track of Hurricane Irma, due to the combination of above normal astronomical tides and expected large wave action, additional damage is likely to beaches and structures along the immediate coast and especially those damaged by Hurricane Matthew

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