



**FloridaClimateCenter**  
Office of the State Climatologist

***Hurricane Irma: Florida's First Landfalling Major Hurricane Since  
2005***

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*Hurricane Irma as it approached Florida. Courtesy: NASA/NOAA GOES Project*

## General Overview

Hurricane Irma made landfall on and then tracked over a large portion of Florida on 9-11 September 2017. Before its sojourn in the Sunshine State, Irma had a history as one of the most intense tropical cyclones in the observational record of the Atlantic basin. It was the ninth named storm, fourth hurricane, and second major hurricane of the active 2017 season.

The storm's origins were in western Africa, where, on 26 August, an easterly wave developed. That wave moved westward off the African coast and into the Atlantic Ocean on the 27<sup>th</sup>. On the 30<sup>th</sup>, at 11:00 AM EDT, a closed circulation was deemed to have developed near Cape Verde, allowing the entity to be christened as a tropical storm. High sea-surface temperatures and low wind shear, along with only dry air as a hindrance, allowed Irma to strengthen rapidly into a Category 2 hurricane by the 31<sup>st</sup>. This period of rapid strengthening included an increase in maximum sustained wind speeds from 70 to 115 MPH in only 12 hours. Later that day, Irma attained Category 3 strength. Over the following several days, moving generally westward over the open Atlantic Ocean, it fluctuated between Category 2 and 3 strength as eyewall replacement cycles modified its structure. On 4 September, intensification resumed, and Irma reached Category 4 strength that day. At 7:45 AM EDT on the 5<sup>th</sup>, it reached Category 5 strength. By 8:00 PM EDT that day, it reached peak intensity, which it would maintain for 37 hours, with maximum sustained winds of 185 MPH and a central barometric pressure of 914 hPa. At 2:00 AM on the 6<sup>th</sup>, Irma made its first landfall on the northern coast of the small Lesser Antilles island of Barbuda, causing near-total destruction. At 8:00 AM EDT, it made landfall on Saint Maarten; at 1:00 PM EDT, it made landfall on Ginger Island and Tortola in the British Virgin Islands cluster. Moving west-northwestward across the Caribbean Sea, on the 8<sup>th</sup>, it made landfall on the island of Little Inagua in the Bahamas at 2:00 AM EDT before weakening to Category 4 strength because of an eyewall replacement cycle. By 11:00 PM EDT on the 9<sup>th</sup>, Irma had re-strengthened to Category 5 strength before a landfall on Cuba. Interaction with the Cuban land-mass weakened it to Category 3 strength before it traversed into the Straits of Florida, where it regained Category 4 strength.

On the 10<sup>th</sup>, Irma made three separate landfalls on Florida. The first occurred at Cudjoe Key (Monroe County; in the lower Keys), at 9:10 AM EDT, with 130-MPH maximum sustained winds (Category 4). This landfall was the first of a major hurricane on Florida since Hurricane Wilma made landfall at Cape Romano (Collier County) on 24 October 2005. The second Irma landfall was at 3:35 PM EDT at Marco Island (Collier County), with 115-MPH maximum sustained winds (Category 3). The third was one-half hour later at Naples, with 115-MPH maximum sustained winds. Irma's center then moved inland about 25 miles, weakening to Category 2 strength, before moving in a generally north-northwest direction. As it passed just east of Tampa on the night of the 10<sup>th</sup>, the storm maintained Category 1 strength. By the time the center reached the Big Bend region around dawn on the 11<sup>th</sup>, Irma had weakened to tropical-storm strength. By the afternoon of the 11<sup>th</sup>, the center had exited the state into Georgia.

Following is a list of outstanding points about Irma's strength and longevity (derived in part from a list compiled by Phil Klotzbach, who is a research scientist at the Colorado State University):

- Its peak maximum sustained wind speed value (185 MPH) was tied with the Florida Keys hurricane (1935), Hurricane Gilbert (1988), and Hurricane Wilma (2005) for second-highest value in the Atlantic basin observational record. Hurricane Allen (1980) had a peak maximum sustained wind speed value of 190 MPH.
- Based on the aforementioned maximum sustained wind speed value, it was the strongest storm to exist outside the Caribbean Sea and Gulf of Mexico in the observational record in the Atlantic basin.
- It maintained 185-MPH winds for 37 hours. No storm in the global observational record has maintained a higher wind speed for a longer period of time. Typhoon Haiyan (2013) in the northwest Pacific Ocean maintained 185-MPH winds for 24 hours.
- Its lifetime minimum barometric pressure was 914 hPa, which is the lowest in the Atlantic basin observational record since Hurricane Dean (2007) and the 10<sup>th</sup> lowest in the satellite era, which began in 1966.
- That lifetime minimum barometric pressure value was the lowest of any Atlantic basin hurricane outside of the western Caribbean Sea and Gulf of Mexico in the observational record.
- It was the first Category 5 hurricane in the tropical north Atlantic Ocean (7.5-20°N, 60-20°W) since Hurricane Hugo (1989).
- It had a 3.25-day lifetime at Category 5 strength, which is tied with the Cuba hurricane (1932) for longest in the Atlantic basin. It also maintained Category 5 strength for three consecutive days, the longest of any Atlantic basin storm in the satellite era.
- It spent 8.50 days as a major hurricane, which is the second longest in the satellite era in the Atlantic basin after Hurricane Ivan (2004).
- It generated the most Accumulated Cyclone Energy (ACE) (67.5 ACE) of any tropical cyclone in the observational record in the tropical Atlantic Ocean.
- It generated more ACE than the first eight named storms of the 2017 Atlantic hurricane season (Arlene through Harvey) combined.
- It generated the most ACE in a 24-hour period of any tropical cyclone in the Atlantic basin observational record, breaking the record set by Hurricane Allen (1980).
- Its ACE is the second greatest in the satellite era in the Atlantic basin, trailing only Hurricane Ivan (2004), whose ACE was 70.4.

### **Impacts on Florida**

The impacts of Hurricane Irma were widespread, covering the entire Florida peninsula and approximately the eastern two-thirds of the panhandle, and ran the full gamut, including damaging winds, large storm surge, high rainfall totals, and tornadoes (totaling 17).

Damaging winds were observed throughout much of the state, with the strongest winds in the Keys and coastal southwest. It is likely that gusts of higher velocity than those recorded, especially in the southern part of the peninsula and the Keys, occurred but are not reflected in observations because of electric power being knocked out to anemometers. In the Keys, where Irma made its initial landfall, the

highest wind gust recorded was 119 MPH at Big Pine Key. Peak gusts of 75 to 95 MPH were common among the observations available. In the southern part of the peninsula, the highest gust recorded was 142 MPH at the Naples Airport, and peak gusts of 75 to 105 MPH were common among the observations available, with the highest gusts on the western side of the peninsula. In the central part of the peninsula, peak gusts recorded were generally 75 to 90 MPH. Farther north, including the panhandle, gusts generally remained below hurricane force. More specific details on maximum wind speeds and gusts achieved can be found in the appendices of this report in the post-tropical cyclone reports prepared by the local National Weather Service (NWS) offices.

Storm surge reached record levels along portions of the eastern coast, exceeding levels observed during Hurricane Matthew in 2016 at many locations and breaking records set during Hurricane Dora in 1964 along the St. Johns River around Jacksonville. In the below table are selected surge height values.

<b>LOCATION, BODY OF WATER</b>	<b>COUNTY</b>	<b>STORM SURGE HEIGHT (feet)</b>
Fernandina Beach, Atlantic Ocean	Nassau	7.78
Southbank Riverwalk, St. Johns River	Duval	6.61
Mayport, St. Johns River	Duval	6.44
Dames Point Bridge, St. Johns River**	Duval	5.97
Buckman Bridge, St. Johns River**	Duval	5.71
Naples, Gulf of Mexico	Collier	5.14
Naples Bay, Gulf of Mexico**	Collier	5.00
Racy Point, St. Johns River	St. Johns	4.72
Trident Pier, Atlantic Ocean	Brevard	4.20
Virginia Key, Atlantic Ocean	Miami-Dade	3.92
Fort Myers, Gulf of Mexico	Lee	3.88
Bal Harbour, Atlantic Ocean	Miami-Dade	3.80
Key West, Atlantic Ocean	Monroe	3.29
McKay Bay, Gulf of Mexico	Hillsborough	3.07
Vaca Key, Atlantic Ocean	Monroe	2.80

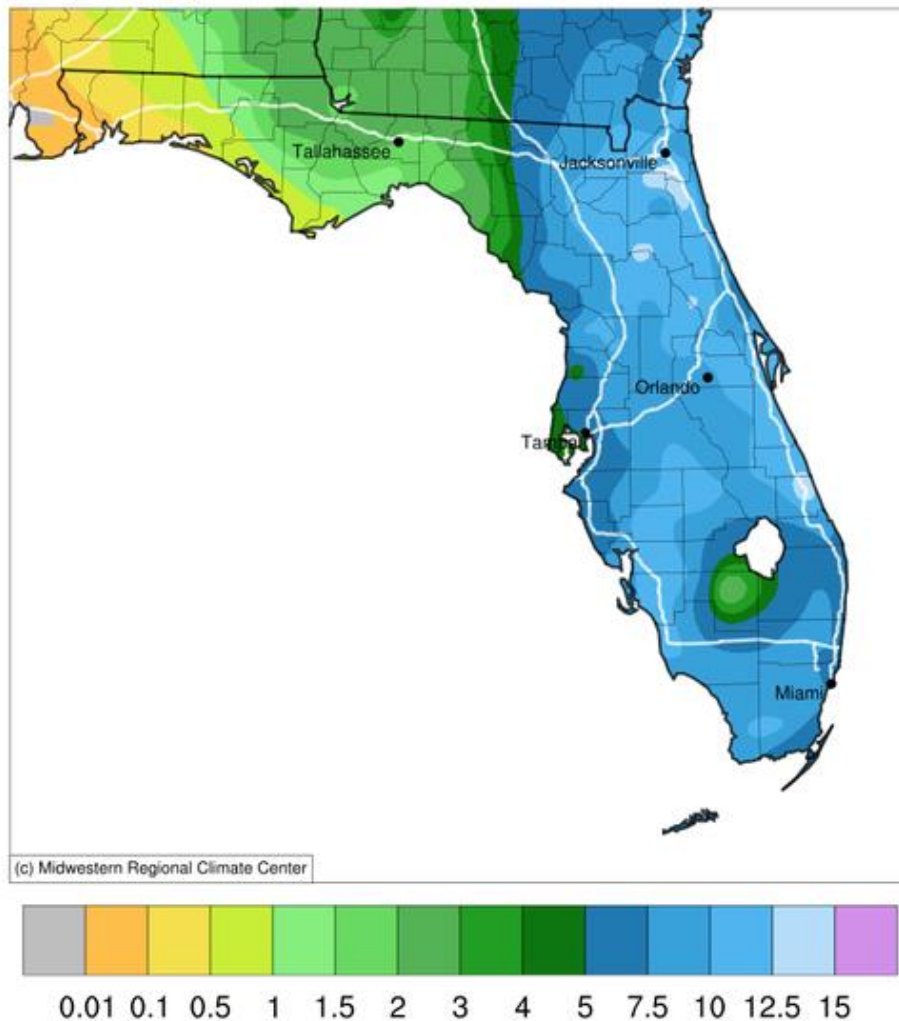
Lake Worth Pier, Atlantic Ocean	Palm Beach	2.23
Port Manatee, Gulf of Mexico	Manatee	2.17
St. Petersburg, Gulf of Mexico	Pinellas	2.17
Clearwater Beach, Gulf of Mexico	Pinellas	1.85

\*\*Incomplete data.

Rainfall was heavy and led to street and river flooding in various parts of the state. Of particular note was the major to record flooding that occurred on streams of all sizes in the northern part of the peninsula. Typical of tropical cyclones, rainfall totals were heaviest to the east of the storm center, which was an area that included most of the peninsula. The figure below shows the spatial distribution of the storm-total rainfall, which ranged as high as 15" in pockets of south Florida.

**Accumulated Precipitation (in)**

September 09, 2017 to September 12, 2017



For this report, it was elected to report only those rainfall totals that were observed at stations part of the Community Collaborative Rain, Hail, and Snow (CoCoRaHS) network. To be included in the table below, a daily rainfall total observation for each of 10, 11, and 12 September needed to be available, and the total of those daily totals, forming a storm total, had to exceed 4.00"; a multi-day total covering those three days was also acceptable. For two stations in Monroe County, where rains from Irma started earlier than in the rest of the state, a total spanning 9-12 September is reported. Totals from stations in the Automated Surface Observing System (ASOS) and the NWS Cooperative Observation Program (NWS COOP) are not included in this table because many values are missing or incomplete. Some of these totals, for varying storm-total periods, are given in the post-tropical cyclone reports, issued by the various NWS local forecast offices, which can be found in the appendices of this report.

<b>STATION NAME</b>	<b>COUNTY</b>	<b>STORM RAINFALL TOTAL (inches)</b>
Lutz 2.2 SSE	Hillsborough	16.08
St. Augustine 12.2 WNW	St. Johns	15.39
Fort Pierce 3.4 NNE	St. Lucie	15.19
Fleming Island 1.7 SE	Clay	14.96
Orange Park 4.1 WSW	Clay	14.39
Keystone Heights 6.9 ENE	Clay	14.31
Starke 0.9 ESE	Bradford	14.14
Jacksonville 12.0 SSE	Duval	14.03
Jacksonville 12.0 SSE	Duval	13.95
Fleming Island 2.2 S	Clay	13.94
Jacksonville 9.6 SE	Duval	13.81
Palm Shores 4.3 NNW	Brevard	13.74
Buckingham 1.7 SE	Lee	13.55
Interlachen 8.8 S	Marion	13.24
Palm Bay 2.7 SSE	Brevard	13.23
Jacksonville 5.9 SW	Duval	13.21
Gainesville 2.4 NW	Alachua	13.07
East Palatka 3.5 NNW	Putnam	12.90
Mims 8.5 W	Volusia	12.87
Florahome 4.1 NNE	Putnam	12.57
De Land 4.5 NW	Volusia	12.55
Keystone Heights 7.6 ENE	Clay	12.47
Union Park 1.1 E	Orange	12.36
Oviedo 4.0 W	Seminole	12.14
Vero Beach 5.3 W	Indian River	12.10
Gainesville 6.5 NW	Alachua	12.07
Oviedo 1.6 SE	Seminole	12.06

Orange 11.2 NE	Orange	12.05
Lady Lake 4.8 WNW	Marion	11.94
De Land 5.7 NW	Volusia	11.82
Apopka 3.5 ESE	Orange	11.80
Gainesville 1.7 SE	Alachua	11.59
Mount Plymouth 0.2 WSW	Lake	11.59
Gainesville 7.5 WSW	Alachua	11.58
Satsuma 4.0 NE	Putnam	11.55
Port St. Lucie 1.7 NNW	St. Lucie	11.55
DeLand 2.0 W	Volusia	11.53
Gainesville 3.8 W	Alachua	11.41
Arcadia 7.1 WSW	DeSoto	11.39
Titusville 5.9 NNW	Brevard	11.38
Titusville 3.5 NW	Brevard	11.33
Micanopy 2.1 NNE	Alachua	11.30
Alachua 5.2 NNW	Alachua	11.30
Bushnell 1.0 NNW	Sumter	11.30
Jacksonville 10.0 WSW	Duval	11.27
Lady Lake 2.0 NNW	Lake	11.26
Gainesville 2.4 SW	Alachua	11.22
Chuluota 0.9 N	Seminole	11.22
Orange Park 2.5 WSW	Clay	11.13
Palm Bay 2.6 SSE	Brevard	11.10
Lakeland 6.9 SW	Polk	11.10
Fernandina Beach 6.3 SW	Nassau	11.09
Oakland Park 0.3 SE	Broward	11.04
Vero Beach 2.5 S	Indian River	11.04
Miami Lakes 0.3 NNW	Miami-Dade	11.00
Sylvan Shores 8.5 NE	Highlands	10.95
Oxford 1.2 ENE	Sumter	10.88
The Villages 2.6 NW	Marion	10.87
Lady Lake 1.2 ESE	Lake	10.80
Rockledge 1.1 WSW	Brevard	10.79
Kendale Lakes 1.0 S	Miami-Dade	10.78
Crescent City 8.6 WSW	Putnam	10.77
Gainesville 7.7 W	Alachua	10.74
Crystal River 4.7 ESE	Citrus	10.65
The Villages 2.8 ESE	Sumter	10.62
Vero Beach 3.4 W	Indian River	10.61
Okeechobee 27.1 NNW	Okeechobee	10.61
Bay Lake 4.1 WSW	Orange	10.59
Sebring 4.7 WNW	Highlands	10.54
Orlando 4.9 N	Orange	10.51
Glen St. Mary 1.7 N	Baker	10.48
Jacksonville 4.2 NE	Duval	10.46

The Villages 2.7 NNW	Marion	10.44
Lake Placid 1.1 WSW	Highlands	10.42
Hernando 1.6 N	Citrus	10.39
St. Augustine South 2.1 SSW	St. Johns	10.38
Port St. Lucie 4.0 NE	St. Lucie	10.36
La Belle 2.3 WNW	Hendry	10.31
Interlachen 10.4 NNE	Putnam	10.29
Ocala 4.6 N	Marion	10.23
Jacksonville 11.4 ESE	Duval	10.21
Ocala 9.8 SW	Marion	10.21
Poinciana Place 2.5 SSW	Polk	10.20
Merritt Island 3.8 N	Brevard	10.19
De Land 1.4 WSW	Volusia	10.18
Penney Farms 0.1 E	Clay	10.16
Leesburg 2.7 NW	Lake	10.13
Port St. Lucie 2.4 N	St. Lucie	10.13
Lady Lake 4.6 W	Lake	10.12
Ocala 11.2 SW	Marion	10.12
Vero Beach 3.5 SSW	Indian River	10.11
Palm Shores 1.4 W	Brevard	10.10
Keystone Heights 10.0 NE	Clay	10.06
Bellevue 4.8 E	Marion	10.06
Sebastian 1.7 SSE	Indian River	10.04
Keystone Heights 3.5 ENE	Clay	10.02
Plantation 3.4 E	Broward	10.01
Naples 9.0 NE	Charlotte	10.01
Miramar 3.0 WNW	Broward	9.94
Ocala 14.3 S	Marion	9.94
La Belle 4.5 NNW	Glades	9.92
Lady Lake 5.0 W	Sumter	9.92
Jacksonville 11.9 N	Duval	9.88
Bartow 7.8 SE	Polk	9.88
Babson Park 0.9 NW	Polk	9.88
Lake Wales 0.7 SE	Polk	9.88
High Springs 3.2 SW	Alachua	9.84
Melbourne 4.6 NNW	Brevard	9.84
Palm Coast 5.9 S	Flagler	9.83
Dade City 1.8 WSW	Pasco	9.83
Ocoee 1.4 N	Orange	9.82
Micco 1.3 NW	Brevard	9.80
Melbourne 1.1 N	Brevard	9.76
Hernando 2.9 W	Citrus	9.68
The Villages 3.7 NNW	Marion	9.68
Sunset 2.4 SW	Miami-Dade	9.66



Lake City 7.9 SSW	Columbia	9.63
Ocala Weather Service	Marion	9.60
Merritt Island 5.6 NNW	Brevard	9.57
Cocoa 5.1 NW	Brevard	9.55
Altoona 5.3 NNE	Lake	9.53
Gainesville 5.0 SSW	Alachua	9.46
Port St. Lucie 4.1 SW	St. Lucie	9.46
Cocoa 4.6 NW	Brevard	9.45
Cocoa 2.6 WNW	Brevard	9.44
Orlando 4.8 NNW	Orange	9.44
Winter Garden 2.3 SSW	Orange	9.44
Zephyrhills 0.9 ENE	Pasco	9.40
Melbourne 4.7 N	Brevard	9.39
Micanopy 3.6 SSW	Marion	9.35
Vero Beach 2.4 W	Indian River	9.34
Union Park 2.9 SSE	Orange	9.29
Union Park 3.8 ESE	Orange	9.28
Dade City 4.1 SSE	Pasco	9.28
Micanopy 8.5 W	Alachua	9.24
The Villages 2.7 NNW	Sumter	9.21
De Land 1.3 WSW	Volusia	9.21
Belleview 6.0 SSE	Marion	9.18
Zephyrhills North 2.3 N	Pasco	9.11
Crescent City 2.0 N	Putnam	9.07
Jacksonville 6.7 WSW	Duval	9.04
Aberdeen 3.7 WNW	Palm Beach	8.99
Sun Valley 0.8 SW	Palm Beach	8.96
Jacksonville 7.8 SW	Duval	8.93
Weston 2.8 SE	Broward	8.89
Plantation 2.3 WNW	Broward	8.89
Okeechobee 18.0 NNW	Okeechobee	8.88
Gainesville 5.4 W	Alachua	8.87
Davie 2.6 WSW	Broward	8.87
Ocala 1.1 SE	Marion	8.83
Lakeland Highlands 0.3 SE	Polk	8.79
Lakeland 5.3 WNW	Polk	8.75
Pierson 1.5 SW	Volusia	8.74
Ocala 7.0 NW	Marion	8.73
Aberdeen 1.4 WNW	Palm Beach	8.70
Haines City 6.0 ESE	Polk	8.67
Lady Lake 4.3 SSW	Sumter	8.65
Lutz 1.3 SSE	Hillsborough	8.62
Orlando 12.0 S	Orange	8.60
Jacksonville 3.8 ESE	Duval	8.57
Palm City 3.1 NW	Martin	8.52

Key West 1.3 ENE	Monroe	9.03**
Fort White 3.2 WNW	Columbia	8.28
Biscayne Park 0.3 E	Miami-Dade	8.19
Port Orange 2.9 WSW	Volusia	8.18
Port Charlotte 6.2 W	Charlotte	8.17
Delray Beach 2.3 WSW	Palm Beach	8.11
Chiefland 8.5 ENE	Levy	8.07
Jensen Beach 2.2 NW	Martin	8.07
Auburndale 1.1 W	Polk	8.03
Palm Coast 1.9 S	Flagler	7.91
Pompano Beach Highlands 0.7 E	Broward	7.78
Palm City 1.4 NW	Martin	7.68
Weeki Wachee 7.1 NNE	Hernando	7.67
Valrico 2.2 SE	Hillsborough	7.63
Palm Bay 3.2 S	Brevard	7.62
Palm City 4.0 SW	Martin	7.56
Boynton Beach 1.3 WNW	Palm Beach	7.56
Tradition 5.6 W	St. Lucie	7.52
Groveland 1.7 E	Lake	7.49
Hollywood 3.9 SW	Broward	7.48
Micanopy 4.6 SSE	Martin	7.43
The Villages 4.8 SSW	Sumter	7.35
Eagle Lake 2.0 WNW	Polk	7.25
Lutz 3.4 NE	Pasco	7.16
Bradenton 10.8 SE	Manatee	7.12
Astatula 1.0 E	Lake	7.08
Hammocks 0.5 SSE	Miami-Dade	7.06
Ruskin 1.8 ESE	Hillsborough	6.89
Riverview 4.8 SSW	Hillsborough	6.87
Aberdeen 4.2 NNW	Palm Beach	6.81
Riverview 4.4 SSW	Hillsborough	6.79
Jupiter 4.0 NNW	Martin	6.79
Brooksville 1.2 E	Hernando	6.73
Delray Beach 1.6 WSW	Palm Beach	6.73
North Port 2.6 E	Sarasota	6.70
Hollywood 1.1 WNW	Broward	6.68
Trenton 4.0 NW	Gilchrist	6.68
Golden Lakes 2.4 SSW	Palm Beach	6.63
Valrico 1.1 SE	Hillsborough	6.61
Ormond Beach 3.5 SE	Volusia	6.61
Englewood 2.0 NNW	Sarasota	6.50
Riverview 4.9 S	Hillsborough	6.46
Englewood 3.7 NNW	Sarasota	6.41
Ellenton 6.6 E	Manatee	6.33

Sanford 1.9 WNW	Seminole	6.26
Boca Raton 2.1 ENE	Palm Beach	6.15
Bloomingtondale 7.6 ESE	Hillsborough	6.11
Melbourne Beach 3.9 SSE	Brevard	6.05
Greater Northdale 0.4 ENE	Hillsborough	6.04
Tampa 6.5 NNE	Hillsborough	6.02
Riverview 0.9 ENE	Hillsborough	5.98
Neptune Beach 0.5 NNW	Duval	5.94
Sarasota 6.4 NNE	Manatee	5.86
Key West 1.0 SW	Monroe	5.75**
North Port 1.6 ENE	Sarasota	5.63
Ruskin 1.6 ESE	Hillsborough	5.62
Clearwater 2.2 S	Pinellas	5.62
Boynton Beach 6.2 WNW	Palm Beach	5.60
Oak Hill 2.8 WSW	Volusia	5.59
Apollo Beach 3.0 ENE	Hillsborough	5.52
Citrus Park 1.3 ENE	Hillsborough	5.48
Port Richey 2.0 NNE	Pasco	5.36
Land O Lakes 1.5 SSE	Pasco	5.36
Palm Harbor 1.0 S	Pinellas	5.36
Spring Hill 2.4 WSW	Hernando	5.33
Bradenton 3.5 WNW	Manatee	5.13
Titusville 0.9 SW	Brevard	5.12
Lutz 2.0 E	Hillsborough	5.12
Edgewater 0.1 SW	Volusia	5.09
North Port 4.7 NNE	Sarasota	5.06
Lantana 0.3 E	Palm Beach	5.05
West Palm Beach 6.0 WNW	Palm Beach	4.94
Live Oak 10.0 W	Suwannee	4.83
Riverview 2.1 W	Hillsborough	4.78
Holiday 0.6 E	Pasco	4.76
St. Petersburg 4.5 NW	Pinellas	4.75
Bay Pines 0.5 NW	Pinellas	4.71
Dunedin 2.8 ESE	Pinellas	4.68
Golfview 0.9 SSW	Palm Beach	4.66
Dunedin 3.0 SE	Pinellas	4.62
Crystal River 5.3 NNE	Citrus	4.58
Lutz 0.6 WSW	Hillsborough	4.56
St. Petersburg 3.2 NNW	Pinellas	4.51
Sarasota 5.8 SE	Sarasota	4.43
Daytona Beach Shores 1.8 SSE	Volusia	4.43
Seminole 3.3 WNW	Pinellas	4.40
Largo 2.2 ESE	Pinellas	4.35

Apollo Beach 2.7 ENE	Hillsborough	4.34
Lake Worth 1.2 N	Palm Beach	4.09
Green Cove Springs 6.8 SSE	Clay	4.05
Gulfport 0.9 NNW	Pinellas	4.01

\*\*Because Hurricane Irma’s rains reached the Keys before other parts of the state, storm total covers 9-12 September.

Seventeen tornadoes were recorded in Florida due to Hurricane Irma. Forming typically east of the center of the storm, these tornadoes followed that pattern by generally occurring in the eastern half of the peninsula, north of its midpoint. The following table summarizes key facts about the tornadoes, and more details are given in the appendices in the post-tropical cyclone reports issued by the NWS local offices.

EF RATING	LOCATION	COUNTY	PATH LENGTH (miles)	MAXIMUM WIND SPEED (miles per hour)
2	1 SE Crescent Beach	St. Johns	1.0	110-130
1	Mims, Kilbee Street	Brevard		115-125
1	1 SSE Vilano Beach	St. Johns	4.0	85-100
1	1 N St. Augustine	St. Johns	1.0	85-100
1	Turkey Creek	Brevard	unknown	100-110
1	Indialantic	Brevard	unknown	90-100
1	Mims, Northgate	Brevard	unknown	90-95
1	Umatilla	Lake	unknown	95-100
1	Ormond Beach	Volusia	unknown	100-110
1	Patrick AFB	Brevard	unknown	85-95
1	North Merritt Island	Brevard	unknown	100-110
1	2 W Ochopee	Collier	unknown	unknown
0	2 NNW Fernandina Beach	Nassau	11.0	85-100
0	2 NNW Amelia City	Nassau	11.0	85-100
0	2 S Marineland	Flagler	4.0	85-100
0	Melbourne Beach	Brevard	unknown	70-80
0	1 S Wilton Manors	Broward	unknown	unknown

## Conclusion

In Florida, Hurricane Irma will be remembered for being the first major hurricane to make landfall on the state in over a decade and for its widespread impacts throughout the state, including an evacuation and preparation effort that caused severe traffic congestion over much of the Southeast and strained material resources and commodities, such as gasoline and bottled water. In particular, Irma produced

heavy rainfall through a large portion of the peninsula, contributing to a historically wet rainy season on the peninsula, and record-high storm surge at some locations along the northern east coast. Wind damage was noted throughout much of the peninsula and at some locations in the Big Bend; this damage proved to be substantial in the southwestern part of the state and in the Keys. A developing legacy of Irma, at the time of publication of this report, is its deleterious impact on the state's agricultural sector, particularly that part concerned with citrus crops. Seventy-two persons perished in Florida as a result of Irma.

## Appendices

### Appendix A – Links to other sources of information

This article from the Tampa Bay Times describes some of the agricultural impacts that are being realized following the hurricane: <http://www.tampabay.com/florida-politics/buzz/2017/11/16/irma-agriculture-losses-continue-to-mount/>

Courtesy of Brian McNoldy at the University of Miami's Rosenstiel School of Marine and Atmospheric Science, the following link leads to Doppler radar imagery of Irma as it moved over Florida and the rest of the Southeast: [http://andrew.rsmas.miami.edu/bmcnoldy/tropics/irma17/Irma\\_9-12Sep17\\_southeast.gif](http://andrew.rsmas.miami.edu/bmcnoldy/tropics/irma17/Irma_9-12Sep17_southeast.gif)

## Appendix B – Post-Cyclone Report from the Tallahassee NWS WFO

489

ACUS72 KTAE 281538 CCA  
PSHTAE

POST TROPICAL CYCLONE REPORT...HURRICANE IRMA  
NATIONAL WEATHER SERVICE - TALLAHASSEE FL  
1124 AM EDT THU SEP 28 2017

NOTE: THE DATA SHOWN HERE ARE PRELIMINARY...AND SUBJECT TO UPDATES  
AND CORRECTIONS AS APPROPRIATE.

THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS  
WERE IN EFFECT...OR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH IRMA  
OR ITS REMNANTS WAS AFFECTING THE AREA.

COUNTIES INCLUDED...BAKER...BAY...BEN HILL...BERRIEN...BROOKS...  
CLAY...COFFEE...COLQUITT...COOK...DALE...DECATUR...DIXIE...  
DOUGHERTY...EARLY...FRANKLIN...GADSDEN...GENEVA...GRADY...GULF...  
HENRY...HOLMES...HOUSTON...IRWIN...JACKSON...JEFFERSON...  
LAFAYETTE...LANIER...LEE...LEON...LIBERTY...LOWNDES...MADISON...  
MILLER...MITCHELL...QUITMAN...RANDOLPH...SEMINOLE...TAYLOR...  
TERRELL...THOMAS...TIFT...TURNER...WAKULLA...WALTON...WASHINGTON...  
WORTH...CALHOUN, FL...CALHOUN, GA

### A. LOWEST SEA LEVEL PRESSURE/MAXIMUM SUSTAINED WINDS AND PEAK GUSTS

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METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUTES

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
KCTY-CROSS CITY, FL							
29.62	-83.10	9999.0	/	360/036	11/0655	I 010/053	11/0735 I
KAAF-APALACHICOLA MUNI, FL							
29.72	-85.03	996.6	11/1153	320/028	11/1953	360/042	11/0953
K40J-PERRY-FOLEY, FL							
30.07	-83.57	9999.0	/	020/020	11/0235	I 020/032	11/0335 I
KPAM-TYNDALL AFB, FL							
30.07	-85.59	999.3	11/1446	320/029	11/1446	320/038	11/1527
KECP-PANAMA CITY NW, FL							
30.35	-85.80	999.9	11/1953	300/024	11/1653	310/035	11/1706
KTLH-TALLAHASSEE RGNL, FL							
30.40	-84.35	990.8	11/1553	350/030	11/1223	350/048	11/1208
KDTS-DESTIN/FT WALTON BEACH ARPT, FL							
30.40	-86.47	1001.0	11/2053	330/024	11/1853	360/034	11/1125
KVLD-VALDOSTA, GA							
30.79	-83.28	996.5	11/0953	I 020/036	11/1005	I 010/049	11/0939 I
KMAI-MARIANA, FL							
30.80	-85.21	995.1	11/1953	340/027	11/1445	340/040	11/1453
KVAD-VLDOSTA/MODY AFB, GA							
30.97	-83.20	984.8	11/1443	020/038	11/1214	010/054	11/1311

KBGE-BAINBRIDGE, GA  
30.97 -84.63 9999.0 / 360/027 11/1255 350/040 11/1335

KMGR-MOULTRIE/THMSVIL, GA  
31.08 -83.80 9999.0 / 010/032 11/1235 010/047 11/1235

KOZR-FT RUCKER/CAIRNS, AL  
31.29 -85.72 997.4 11/1944 330/025 11/1613 320/042 11/1727

KDHN-DOTHAN, AL  
31.32 -85.45 996.1 11/2053 330/030 11/1615 330/048 11/1607

KABY-ALBANY MUNICIPAL, GA  
31.54 -84.18 988.9 11/1953 010/025 11/1500 010/043 11/1336

K1JO-HOLMES COUNTY, FL  
30.85 -85.60 993.6 11/1958 030/020 11/1911 320/032 11/1641

KTMA-TIFTON, GA  
31.43 -83.49 9999.0 / 030/027 11/1455 020/044 11/1315

REMARKS:  
CTY STOPPED REPORTING AT 11/0955Z  
40J STOPPED REPORTING AT 11/0315Z  
VLD STOPPED REPORTING AT 11/1030Z

NON-METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT	LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG	DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
CONE FARM - GREENVILLE, FL							
30.40	-83.54	984.1	99/9999	327/022	11/1030	355/038	11/1035
				99/99			
MADISON HIGH SCHOOL - MADISON, FL							
30.48	-83.45	1001.4	999/99	049/030	11/0306	027/034	11/0505
				99/99			
TERRY FARM - MADISON, FL							
30.35	-83.33	9999.9	99/9999	015/032	11/0120	029/043	11/0744
				99/99			
AUCILLA CHRISTIAN ACADEMY - AUCILLA, GA							
30.48	-83.76	990.9	99/9999	071/027	11/0847	052/034	11/0931
				99/99			
UGA TIFTON - TIFTON, GA							
31.47	-83.53	988.1	99/9999	049/023	11/1637	023/035	11/1318
				99/99			
SUN BELT AG EXPO - MOULTRIE, GA							
31.13	-83.71	992.2	99/9999	344/037	11/1214	360/041	11/1216
				9999			
FSU COASTAL AND MARINE LAB - ST. TERESA, FL							
29.91	-84.51	9999.9	99/9999	298/028	11/1158	319/034	11/1024
				9999			
ST. GEORGE ISLAND BRIDGE - EASTPOINT, FL							
29.69	-84.89	9999.9	99/9999	350/047	11/1210	350/047	11/1210
				9999			
GULF COUNTY EOC - PORT ST. JOE, FL							
29.81	-85.29	9999.9	99/9999	050/032	11/0447	014/035	11/1025
				9999			



FSU PANAMA CITY - PANAMA CITY, FL						
30.19	-85.72	9999.9	99/9999	024/037	11/1213	024/041 11/1213
				99/99		
DOTHAN TECHNOLOGY CENTER - DOTHAN, AL						
31.26	-85.38	9999.9	99/9999	335/023	11/1418	360/035 11/1609
				9999		
CHALLENGER LEARNING CENTER - TALLAHASSEE, FL						
30.44	-84.28	9999.9	99/9999	024/035	11/1145	016/035 11/1206
				99/99		
TLLAS-CHILES HS TALLAHASSEE, FL						
30.57	-84.21	9999.9	99/9999	344/027	11/1121	360/037 11/1135
				9999		
CONLEY ELEMENTARY - TALLAHASSEE, FL						
30.41	-84.22	9999.9	99/9999	019/030	11/1127	011/036 11/1148
				99/99		
FSU SCHOOLS - TALLAHASSEE, FL						
30.38	-84.22	9999.9	99/9999	050/030	11/0720	323/037 11/1136
				99/99		
FSU REC SPORTSPLEX - TALLAHASSEE, FL						
30.42	-84.34	9999.9	99/9999	360/034	11/1133	040/036 11/1131
				99/99		
FSU RESERVATION - TALLAHASSEE, FL						
30.40	-84.34	9999.9	99/9999	338/027	11/1219	348/036 11/1121
				99/99		
FSU WEATHERSTEM - TALLAHASSEE, FL						
30.43	-84.30	9999.9	99/9999	014/037	11/0937	043/047 11/1109
				9999		
HOLY COMFORTER EPISCOPAL SCHOOL - TALLAHASSEE, FL						
30.48	-84.22	9999.9	99/9999	355/030	11/1145	030/040 11/1207
				99/99		
SEALEY ELEMENTARY - TALLAHASSEE, FL						
30.48	-84.29	9999.9	99/9999	350/027	11/1135	340/035 11/1012
				99/99		
TALLAHASSEE COMMUNITY COLLEGE - TALLAHASSEE, FL						
30.44	-84.34	9999.9	99/9999	318/025	11/1327	282/035 11/1213
				99/99		
THE EDISON RESTAURANT - TALLAHASSEE, FL						
30.43	-84.28	9999.9	99/9999	016/030	11/1048	044/037 11/1201
				99/99		
WT MOORE ELEMENTARY - TALLAHASSEE, FL						
30.47	-84.21	9999.9	99/9999	266/031	11/1417	273/037 11/1201
				99/99		
AELG1 - ADEL GA RAWS						
31.10	-83.43	9999.9	99/9999	170/027	11/1200	999/046 11/1200
				99/99		
PRWF1 - ST. MARKS RAWS						
30.01	-84.42	9999.9	99/9999	360/011	11/1100	999/038 11/1300
				99/99		

REMARKS: WEATHERSTEM STATION UNLESS NOTED OTHERWISE.

B. MARINE OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
42036-3D32	/D W. TAMPA						
28.50	-84.51	990.9	11/0850	020/043	11/0250	999/056	11/0650
42039-3D20	/D PENSACOLA						
28.78	-86.04	1000.9	11/1050	350/033	11/1150	999/039	11/0250
SGOF1-TYNDALL AFB TOWER C, FL							
29.41	-84.86	992.4	11/1200	999/999	99/9999	999/999	99/9999
APCF1-APALACHICOLA, FL NOS							
29.73	-84.98	995.6	11/1206	020/034	11/0918	999/044	11/0942
APXF1-APALACHICOLA NERR, FL							
29.79	-84.88	9999.9	99/9999	340/025	11/1115	999/999	99/9999
KTNF1-KEATON BEACH, FL/M							
29.82	-83.59	984.7	11/1300	360/026	11/0700	999/042	11/1100
SHPF1-SHELL POINT, FL							
30.06	-84.29	990.3	11/1506	340/030	11/1112	999/049	11/1112
PCBF1-PANAMA CITY BEACH, FL NOS							
30.21	-85.88	999.4	11/2206	360/026	11/0942	999/038	11/2218

REMARKS:

C. STORM TOTAL RAINFALL FROM 1200 UTC SEP 01 UNTIL 1200 UTC SEP 02

CITY/TOWN	COUNTY	ID	RAINFALL
LAT LON			(IN)
DEG DECIMAL			
-----			
1 SE MORGAN	CALHOUN	MGNG1	4.91
31.53 -84.58			
4 E EDISON	CALHOUN	PCHG1	4.15
31.55 -84.68			
WSW SASSER	TERRELL		3.93
31.72 -84.35			
5 WNW LEESBURG	LEE	DSNG1	3.88
31.76 -84.25			
4 NW VALDOSTA	LOWNDES	VDRG1	3.85
30.89 -83.32			
4 E MARIANNA	JACKSON		3.66
30.77 -85.17			
1 SW MOODY AFB	LOWNDES		3.53
30.97 -83.20			
5 WSW MOODY AFB	LOWNDES	VDSG1	3.53
30.95 -83.27			
5 W MYSTIC	IRWIN	IVLG1	3.42

31.63 -83.42

2 S ADEL COOK ADLG1 3.33  
 31.11 -83.43

2 NW EAST ALBANY DOUGHERTY ABNG1 3.28  
 31.59 -84.14

1 SE CROSSROADS QUITMAN MRSG1 3.23  
 31.82 -84.97

WNW MILFORD BAKER MLFG1 3.21  
 31.38 -84.55

5 S MIDLAND CITY HOUSTON LCHA1 3.16  
 31.25 -85.48

3 NNE LEESBURG LEE MCKG1 3.13  
 31.78 -84.14

3 W CAPPS HENRY EFKA1 3.04  
 31.50 -85.37

4 WNW TIFTON TIFT TWCG1 3.03  
 31.48 -83.56

REMARKS:

D. INLAND FLOODING...

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E. MAXIMUM STORM SURGE AND STORM TIDE...  
 OFFICIAL TIDE GAUGES NOTED WITH LEADING G

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COUNTY	CITY/TOWN OR LOCATION	SURGE (FT)	TIDE (FT)	DATE/ TIME	BEACH EROSION
FRANKLIN	G APALACHICOLA	0.93	1.68	12/1124	NONE
WAKULLA	SHELL POINT	-9999.00	2.34	12/0748	NONE
JEFFERSON	NUTALL RISE	-9999.00	2.28	12/0748	NONE
WAKULLA	CURTIS MILL	-9999.00	2.63	12/1030	NONE
TAYLOR	STEINHATCHEE	-9999.00	2.71	12/0800	NONE

REMARKS: APPROXIMATE INUNDATION (HEIGHT ABOVE MEAN HIGHER HIGH WATER):  
 APALACHICOLA.....0.82 FT  
 SHELL POINT.....0.71 FT  
 NUTALL RISE.....0.39 FT  
 CURTIS MILL.....1.28 FT  
 STEINHATCHEE.....1.07 FT

F. TORNADES...

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(DIST)CITY/TOWN LAT LON (DEG DECIMAL DESCRIPTION	COUNTY	DATE/ TIME (UTC)	EF SCALE (IF KNOWN)
-----			

G. STORM IMPACTS BY COUNTY...

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COUNTY DESCRIPTION	DEATHS	INJURIES	EVACUATIONS
DIXIE	0	0	0
TREES AND POWER LINES DOWN ACROSS THE COUNTY. ROUGHLY 40 TO 50 HOMES SUSTAINED MAJOR DAMAGE WITH 55 SUFFERING MINOR DAMAGE.			
SEMINOLE	0	0	116
150000 DOLLARS IN DAMAGE TO STRUCTURES...TREES AND POWER LINES. EVACUATED 42 LOCALS AND 74 EVACUEES FROM FLORIDA.			
LEON	0	0	3000
EXPERIENCED TROPICAL STORM FORCE WIND GUSTS FOR APPROXIMATELY 8 HOURS. THE HIGHEST WIND GUST RECORDED WAS 55 MPH AT TALLAHASSEE INTERNATIONAL AIRPORT. THE HIGHEST RECORDED SUSTAINED WIND WAS 43 MPH AT THE FSU WEATHERSTEM SITE. NUMEROUS TREES AND POWER LINES WERE DOWNED ACROSS THE COUNTY. AT THE PEAK...APPROXIMATELY 70000 CUSTOMERS WERE WITHOUT POWER. 200 OBSTRUCTIONS WERE CLEARED FROM ROADWAYS. 88 HOMES SUSTAINED SOME LEVEL OF DAMAGE WITH ONE HOUSE DESTROYED...4 SUSTAINING MAJOR DAMAGE AND 29 OTHERS MINOR DAMAGE. 11 SHELTERS HOSTED 3000 PEOPLE INCLUDING LOCAL RESIDENTS AND EVACUEES FROM OTHER PARTS OF THE STATE. FSU...FAMU AND TCC WERE CLOSED FOR 6 DAYS. COUNTY PUBLIC SCHOOLS WERE CLOSED FOR 4 DAYS.			
TAYLOR	0	0	400
DAMAGE WAS PRIMARILY TO TREES AND POWER LINES WITH A FEW ON HOUSES CAUSING DAMAGE. THREE HOMES SUSTAINED MAJOR DAMAGE AND TWO MINOR DAMAGE. THERE WERE 10941 POWER OUTAGES...SOME NOT RESTORED FOR 6 DAYS. THERE WERE BLOW OUT TIDES BUT NO SURGE FLOODING. TWO INDIRECT FATALITIES WERE CAUSED DUE TO CARBON MONOXIDE FROM A GENERATOR.			
WASHINGTON	0	0	0
A FEW DOWNED TREES AND POWER LINES. ONE TREE BLOCKED TRAFFIC ON I-10 AT MILE MARKER 124.			
MITCHELL	0	0	0
200 TREES DOWNED ONTO ROADWAYS AND POWER LINES. LITTLE KNOWN PROPERTY DAMAGE. AGRICULTURAL IMPACT MAY BE LARGE TO PECANS AND COTTON...BUT STILL BEING ASSESSED.			
LIBERTY	1	0	250
DOWNED TREES AND POWER LINES...BUT MINIMAL TO NO DAMAGE TO STRUCTURES. 250 RESIDENTS WERE HOUSED IN SHELTERS. FIVE CAR CRASHES DURING THE EVENT RESULTING IN ONE FATALITY.			
COLQUITT	0	0	0
ABOUT 200 TREES AND MANY POWER LINES DOWNED RESULTING IN ROAD CLOSURES. SOME TREES FELL ON HOMES AND ONE FELL ON A CAR. HALF THE CITY OF MOULTRIE LOST POWER.			
LOWNDES	0	0	1500
PEAK GUST OF 50 KNOTS OR 58 MPH AT WUNDERGROUND SITE KGAVALDO8 WITH A 52 MPH GUST AT VLD AIRPORT. OVER 500 TREES WERE DOWNED, 34 HOMES WERE DAMAGED AND 60,000 CUSTOMERS WERE WITHOUT POWER. MORE THAN 5,000 PECAN TREES WERE DESTROYED. THERE WAS APPROXIMATELY 25,000 CY OF VEGETATIVE DEBRIS ON PUBLIC AND PRIVATE PROPERTY. TOTAL ESTIMATED LOSSES WERE AROUND \$9 MILLION.			
TIFT	0	0	0
MANY TREES AND POWER LINES DOWNED BLOCKING ROADS INCLUDING U.S. 19.			

WAKULLA	0	0	317
US 98 BLOCKED FROM SR 267 TO SR 363 BECAUSE OF TREES DOWN. A TOTAL OF 98 TREES WERE FELLED WITH 50 OF THOSE WITH LINES ENTANGLED. ALL 98 FELLED TREES WERE BLOCKING ROADWAYS OR PRESENTED A DANGER TO TRAFFIC ON ROADWAYS. THREE TREES FELL ON STRUCTURES AND TWO ON VEHICLES. THERE WERE 8700 POWER OUTAGES AND 317 EVACUATED TO SHELTERS. 10 HOMES WERE DAMAGED IN TOTAL, 6 MAJOR DAMAGE AND 1 DESTROYED.			
EARLY	0	0	0
WEATHER SENTRY STATION AT EARLY COUNTY EMA REPORTED GUST TO 63 MPH.			
DOUGHERTY	0	0	0
WIDESPREAD TREES DOWN AND POWER LINES DOWN REPORTED IN ALBANY AREA WITH MANY POWER OUTAGES AND BLOCKED ROADS. ONE TREE FELL ON A CAR IN THE SHOREHAM APARTMENT COMPLEX.			
HOUSTON	0	0	0
A FEW TREES AND POWER LINES DOWN.			
WORTH	1	0	0
WIDESPREAD TREES AND POWER LINES DOWN WITH DAMAGE TO ROOFS AND VEHICLES REPORTED. SOME LARGE OAKS WERE AMONG THE TREES TOPPLED BY THE STORM. A MAN DIED OF A HEART ATTACK WHILE SHELTERING IN A HOME MADE SHELTER. SUSTAINED WINDS OF 42 MPH WITH GUSTS TO 70 MPH MEASURED AT EMA OFFICE.			
LAFAYETTE	0	0	0
NUMEROUS TREES AND POWER LINES DOWN ACROSS THE COUNTY WITH EXTENSIVE DAMAGE TO TRANSMISSION AND FEEDER LINES RESULTING IN POWER LOSS TO 100 PERCENT OF COUNTY RESIDENTS AND BUSINESSES. TWO RESIDENTIAL STRUCTURES WERE DESTROYED WITH THREE OTHERS SUSTAINING MAJOR DAMAGE AND NINE MINOR DAMAGE.			
MADISON	0	0	0
TREES DOWN AND POWER OUTAGES ACROSS MADISON COUNTY...TWO OF WHICH BLOCKED TRAFFIC ON I-10 AT MILE MARKERS 253 AND 246. TWO ROOFS DAMAGED DUE TO TREES. A TOTAL OF 12 HOMES WERE DAMAGED...3 OF WHICH SUSTAINED MAJOR DAMAGE.			
LANIER	0	0	97
TREES AND POWER LINES DOWN ACROSS LANIER COUNTY INCLUDING A FEW LARGE OAKS. FIVE TREES DOWN ON HOMES. SHELTERED 97.			
BERRIEN	0	0	0
TREES DOWN ACROSS COUNTY. POWER OUTAGES. AT LEAST ONE REPORT OF STRUCTURAL DAMAGE. WITHIN THE CITY OF NASHVILLE, TREES FELL ONTO TWO RESIDENCES CASUING SIGNIFICANT ROOF DAMAGE.			
TURNER	0	0	0
TREES AND POWER LINES DOWN ACROSS THE COUNTY. ROOFS BLOWN OFF SEVERAL HOMES. SEVERAL BARNs BLOWN DOWN.			
COFFEE	0	0	0
SEVERAL POWER LINES AND LARGE TREES WERE DOWN ACROSS MAJOR HIGHWAYS INCLUDING HWY 135 SOUTH...441 SOUTH AND 151 SOUTH. SOME TREES FELL ON STRUCTURES AND ONE FARM STRUCTURE COLLAPSED.			
DECATUR	0	0	UNKNOWN

SOME TREES AND POWER LINES DOWN. FACEVILLE HIGHWAY WAS BLOCKED.

LEE 0 0 UNKNOWN

MANY TREES DOWNED ACROSS THE COUNTY. TREES FELL ONTO OR INTO SEVERAL MOBILE HOMES. DOWNED POWER LINES BLOCKED U.S. 19. CITY OF SMITHVILLE HAD NO POTABLE WATER FOR A PERIOD OF TIME FROM MONDAY INTO TUESDAY.

THOMAS 0 0 UNKNOWN

NUMEROUS TRAFFIC SIGNALS WERE OUT. DOWNED TREES ON POWER LINES LEFT 750 RESIDENTS WITHOUT POWER.

TERRELL 0 0 UNKNOWN

SEVERAL POWER LINES AND LARGE TREES DOWNED...DAMAGING SEVERAL HOMES. AT LEAST ONE HOME IN DAWSON WAS SEVERELY DAMAGED BY A LARGE PECAN TREE.

JACKSON 0 0 UNKNOWN

NUMEROUS TREES AND POWER LINES DOWN BLOCKING ROADS. TWO HOMES SUSTAINED MAJOR DAMAGE FROM FALLING TREES.

BAY 0 0 55

55 PEOPLE WERE SHELTERED IN THE COUNTY. SPORADIC POWER OUTAGES DUE TO DOWNED TREES. MINOR DAMAGE WAS SUSTAINED TO ONE COUNTY FIRE STATION.

CALHOUN, FL 0 0 UNKNOWN

DOWNED TREES AND POWER LINES WITH SPORADIC POWER OUTAGES...BUT NO ROAD CLOSURES. NO MAJOR STRUCTURAL DAMAGE REPORTED.

FRANKLIN 0 0 0

SEVERAL TREES DOWN...SOME DAMAGING HOMES. SEVERAL POWER OUTAGES.

JEFFERSON 0 0 0

SEVERAL TREES DOWN AROUND THE COUNTY...ONE FALLING ON A HOME AND THREE ON CARS. BARN AND FENCES DAMAGED. FARM DAMAGE. 388 POWER OUTAGES.

WALTON 0 0 110

110 EVACUATED TO SHELTERS.

HOLMES 0 0 35

A FEW TREES AND POWER LINES WERE DOWN THROUGHOUT THE COUNTY. THIRTY-FIVE EVACUEES FROM OUTSIDE THE COUNTY WERE HOUSED IN COUNTY SHELTERS.

QUITMAN 0 0 0

TREES AND POWER LINES WERE DOWNED ACROSS THE COUNTY. ESTIMATED COST OF DAMAGE TO THE COUNTY: \$15,000.

RANDOLPH 0 0 0

WIDESPREAD TREES AND POWER LINES WERE DOWN ACROSS THE COUNTY. FORTY PERCENT OF THE COUNTY WAS WITHOUT POWER. A TWO-STORY HOUSE CAUGHT ON FIRE FROM A DOWNED TREE ON A POWER LINE.

HENRY 0 0 0

NUMEROUS TREES AND POWER LINES WERE DOWN ACROSS THE COUNTY. TWO HOMES SUSTAINED STRUCTURAL DAMAGE DUE TO FALLING TREES. MULTIPLE

ROADS WERE BLOCKED BY FALLING TREES. APPROXIMATELY 1200 HOMES WERE WITHOUT POWER.

DALE 0 0 0

SEVERAL TREES AND POWER LINES WERE DOWN IN THE COUNTY. TWO HOMES SUFFERED MINOR DAMAGE DUE TO TREES FALLING ON THE ROOFS. POWER OUTAGES WERE ALSO NOTED IN THE COUNTY.

MILLER 0 0 0

NUMEROUS TREES AND POWER LINES WERE DOWN THROUGHOUT THE COUNTY. ONE HOUSE AND ONE OUTBUILDING FIRE OCCURED DUE TO DOWNED POWER LINES.

BAKER 0 0 0

TREES AND POWER LINES DOWN ACROSS THE COUNTY. APPROXIMATELY 2400 PEOPLE LOST POWER.

GULF 0 0 2000

A FEW TREES AND POWER LINES WERE DOWN ACROSS THE COUNTY. AROUND 2000 PEOPLE WERE WITHOUT POWER.

GRADY 0 0 550

WIDESPREAD TREES AND POWER LINES DOWN ACROSS THE COUNTY (MORE THAN 225). SEVEN TO EIGHT HOMES SUSTAINED MINOR DAMAGE DUE TO FALLING TREES. APPROXIMATELY 11,000 PEOPLE WERE WITHOUT POWER. A VOLUNTARY EVACUATION WAS ORDERED FOR MOBILE HOMES AND APPROXIMATELY 550 PEOPLE IN THE COUNTY EVACUATED.

IRWIN 0 0 70

NUMEROUS TREES AND POWER LINES WERE DOWN ACROSS THE COUNTY. EIGHT HOMES SUSTAINED MINOR STRUCTURAL DAMAGE DUE TO FALLEN TREES. APPROXIMATELY 70 PEOPLE EVACUATED FROM THEIR MOBILE HOMES. THERE WAS ONE INDIRECT INJURY FROM THE STORM AS ONE LINEMAN WAS ELECTROCUTED.

COOK 0 0 0

TREES AND POWER LINES WERE DOWN ACROSS THE COUNTY THAT RESULTED IN 26 ROAD CLOSURES. THESE IMPACTS LASTED 4 TO 5 DAYS. APPROXIMATELY 15 HOMES WERE DAMAGED DUE TO FALLEN TREES. SCHOOL IN THE COUNTY WAS CLOSED FOR THE WHOLE WEEK.

BROOKS 0 0 0

WIDESPREAD TREES DOWN ACROSS THE COUNTY. SEVERAL HOMES WERE DAMAGED, TWO MAJOR. SEVERAL ROADS WASHED OUT. POWER OUTAGES LASTED 4 TO 5 DAYS ACROSS THE COUNTY WITH SEVERAL THOUSAND POWER OUTAGES. 150 PEOPLE WERE SHELTERED IN THE COUNTY.

CALHOUN, GA 0 0 70

NUMEROUS TREES AND POWER LINES WERE DOWN ACROSS THE COUNTY. TWO HUNDRED AND FIFTY PEOPLE WERE WITHOUT POWER FOR A COUPLE OF DAYS. A COMFORT STATION WAS SET UP FOR PEOPLE IN MOBILE HOMES TO STAY AT DURING THE STORM AND 70 PEOPLE STAYED AT THE COMFORT CENTER. TEN HOMES SUSTAINED STRUCTURAL DAMAGE DUE TO WIND OR FALLEN TREES. ONE BUSINESS IN ALRINGTON LOST ITS ROOF DUE TO WIND.

GENEVA 0 0 0

TREES AND POWER LINES WERE DOWN ACROSS THE COUNTY WITH THE COUNTY REMOVING TREES FROM 37 SITES. IN ADDITION, ON COUNTY ROAD 60, THE ROOF WAS LOST OFF A MOBILE HOME. THE CEILING OF THE MOBILE HOME EVENTUALLY COLLAPSED AND WITH RAIN ENTERING THE MOBILE HOME, IT WAS A COMPLETE LOSS.

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LEGEND:  
I-INCOMPLETE DATA  
E-ESTIMATED

HOLLINGSWORTH/CAMP/WOOL/FIEUX/GODSEY



# Appendix C – Post-Cyclone Report from the Jacksonville NWS WFO

384

ACUS72 KJAX 230237

PSHJAX

POST TROPICAL CYCLONE REPORT...HURRICANE IRMA  
NATIONAL WEATHER SERVICE JACKSONVILLE FL  
1037 PM EDT FRI SEP 22 2017

NOTE: THE DATA SHOWN HERE ARE PRELIMINARY...AND SUBJECT TO UPDATES  
AND CORRECTIONS AS APPROPRIATE.

THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS  
WERE IN EFFECT...OR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH IRMA  
OR ITS REMNANTS WAS AFFECTING THE AREA.

COUNTIES INCLUDED...ALACHUA...APPLING...ATKINSON...BACON...BAKER...  
BRADFORD...BRANTLEY...CAMDEN...CHARLTON...CLAY...CLINCH...COFFEE...  
COLUMBIA...DUVAL...ECHOLS...FLAGLER...GILCHRIST...GLYNN...  
HAMILTON...JEFF DAVIS...MARION...NASSAU...PIERCE...PUTNAM...  
ST JOHNS...SUWANNEE...UNION...WARE...WAYNE

SEP 19...UPDATED FOR...ADDED NOAA PORTS STATIONS AND AMENDED SOME NE  
FLORIDA AWOS STATIONS FOR INCOMPLETE DATA

SEP 22...UPDATED FOR...ADDED LOWEST PRESSURE READINGS FOR SOME  
NON-METAR SITES.

SEP 22...UPDATED FOR...INLAND FLOODING INFORMATION.

## A. LOWEST SEA LEVEL PRESSURE/MAXIMUM SUSTAINED WINDS AND PEAK GUSTS

METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUTES

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
KJAX-JACKSONVILLE INTERNATIONAL AIRPORT FL							
30.49	-81.69	986.6	11/1156	050/051	11/0748	050/075	11/0741
KCRG-CRAIG MUNICIPAL AIRPORT FL							
30.33	-81.52	987.0	11/1153	140/040	11/1227	140/061	11/1226
KNRB-MAYPORT NAVAL STATION FL							
30.39	-81.42	988.5	11/1152	050/059	11/0738	050/076	11/0738
KNIP-JACKSONVILLE NAVAL AIR STATION FL							
30.24	-86.68	984.6	11/1153	120/043	11/1053	050/063	11/0636
KVQQ-CECIL FIELD AIRPORT FL							
30.22	-81.88	9999.0	/	040/024	11/0515	I 030/038	11/0435 I
KSGJ-SAINT AUGUSTINE AIRPORT FL							
29.97	-81.33	994.3	11/0656	I 060/045	11/0506	I 050/062	11/0446 I
KFIN-BUNNELL FL							
29.47	-81.21	9999.0	/	060/035	11/0235	100/053	11/0455
KVVG-THE VILLAGES FL							
28.96	-81.97	9999.0	/	050/032	11/0250	070/047	11/1010

KOCF-OCALA INTERNATIONAL AIRPORT FL  
 29.18 -82.22 995.3 11/0251 I 010/021 10/2221 I 030/034 11/0311 I

K42J-KEYSTONE HEIGHTS FL  
 29.85 -82.05 9999.0 / 070/031 11/0755 070/049 11/0555

KGNV-GAINESVILLE REGIONAL AIRPORT FL  
 29.68 -82.27 979.5 11/1053 040/035 11/0527 050/053 11/0517

KLCQ-LAKE CITY FL  
 30.18 -82.58 9999.0 / 020/031 11/0635 020/047 11/0635

KHOE-HOMERVILLE GA  
 31.06 -82.77 9999.0 / 030/020 11/0735 030/034 11/0735

KHOE-HOMERVILLE GA  
 31.06 -82.77 9999.0 / 030/020 11/0735 030/034 11/0735

KDQH-DOUGLAS MUNICIPAL AIRPORT GA  
 31.48 -82.86 9999.0 / 050/034 11/1355 040/051 11/1255

KAYS-WAYCROSS GA  
 31.25 -82.40 9999.0 / 040/030 11/0815 040/042 11/0955

KAMG-BACON COUNTY AIRPORT GA  
 31.54 -82.50 989.8 11/1553 140/021 11/1853 010/038 11/1314

KJES-JESUP GA  
 31.55 -81.88 9999.0 / 040/021 11/0856 030/033 11/0937

KBQK-BRUNSWICK/GLYNCO AIRPORT GA  
 31.15 -81.47 9999.0 / 060/035 11/0915 060/052 11/0915

KSSI-ST. SIMONS/MALCOLM MCKINNON AIRPORT GA  
 31.15 -81.38 1006.1 11/0553 I 060/033 11/0610 I 050/049 11/0548 I

REMARKS:

NON-METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT	LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG	DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
BXTG1 - RAWS BAXLEY GA							
31.71	-82.39			999/999		070/056	11/1504
XTRM - TERMINAL CHANNEL DOWNTOWN JACKSONVILLE							
30.33	-81.62	983.0	11/1158	120/040	11/1143	120/065	11/1158
XJAK - BUCK ISLAND							
30.39	-81.48	983.0	11/1235	060/055	11/0735	060/069	11/0735
XHUP - HUGUENOT PARK							
30.41	-81.41	985.0	11/1116	065/057	11/0746	060/074	11/0741
XJAX - WEATHERFLOW JACKSONVILLE BEACH PIER							
30.29	-81.39	986.0	11/1010	130/049	11/1310	097/065	11/1010
XLWS - WEATHERFLOW LEWIS ST. JOHNS							
29.91	-81.33	984.0	11/1044	140/045	11/1149	130/065	11/1054
XHSE - WEATHERFLOW CRESCENT BEACH SUMMERHOUSE							
29.71	-81.23	987.0	11/1005	145/047	11/1025	145/060	11/1055
OKEG1 - RAWS WAYCROSS GA							
31.24	-82.40			999/999		035/055	11/1004
JONG1 - RAWS JONES ISLAND OKEFENOKEE NWR							

30.82 -82.36	999/999	082/044	11/1801
TT331 - RAWS OKEFENOKEE NWR WEST			
30.97 -82.40	999/999	032/048	11/0910
EDTF1 - EDDY TOWER BAKER COUNTY			
30.54 -82.34	999/999	114/024	11/1304
LGRF1 - RAWS LAKE GEORGE OCALA NF			
29.38 -81.81	999/999	208/034	11/1704
TS818 - RAWS OKEFENOKEE NWR EAST			
30.74 -82.13	999/999	114/042	11/1256
OLSF1 - RAWS OLUSTEE BAKER			
30.25 -82.42	999/999	173/040	11/1704
STRG1 - RAWS STERLING GLYNN GA			
31.25 -81.61	999/999	073/048	11/1104
FAWN LIVE OAK FL			
30.30 -82.90	999/999	999/042	11/0615
XJEK - JEKYLL ISLAND GA			
31.05 -81.41	988.0 11/1322	130/050	1337 080/067 11/0837
1 NNE ST. AUGUSTINE BEACH			
29.86 -81.26	999/999	999/068	11/0700
CRESCENT BEACH			
29.72 -81.23	999/999	999/058	11/0720
PALATKA AIRPORT			
29.66 -81.69	999/999	999/053	11/0055
3 SE WELAKA			
29.44 -81.63	999/999	999/057	11/0421
2 SSE KINGSLAND			
30.75 -81.65	999/999	999/049	11/0511
2 W DEENWOOD			
31.25 -82.40	999/999	999/048	11/0604
3 NE YULEE			
30.66 -81.54	999/999	999/047	10/2259
1 SW ORTEGA			
30.26 -81.72	999/999	999/047	11/0212
PALM COAST			
29.57 -81.21	999/999	999/046	11/0729
4 SW BAXLEY			
31.71 -82.39	999/999	999/045	11/0704
2 NNE BAKERSTOWN			
29.39 -81.47	999/999	999/045	11/0932
SUWANNE COUNTY AIRPORT			
30.30 -83.02	999/999	999/043	11/0315
BAXLEY MUNICIPAL AIRPORT			
31.71 -82.39	999/999	999/042	11/0715
3 N BUNNELL			
29.51 -81.25	999/999	999/042	11/0042
5 ESE THALMANN			
31.26 -81.61	999/999	999/042	11/0704

11 NNW STEVEN FOSTER ST PK							
30.98 -82.40	999/999	999/042	11/0510				
1 SE ORTEGA							
30.25 -81.69	999/999	999/040	11/0203				
3 S BOYS ESTATE							
31.27 -81.48	999/999	999/030	11/0437				
5WNW NEWBERRY							
29.67 -82.70	999/999	999/039	11/0315				
HAZLEHURST							
31.88 -82.65	999/999	999/039	11/0655				
5 WNW OCALA AIRPORT							
29.20 -82.30	999/999	999/039	11/0147				
3S BELLAIR							
30.18 -81.81	999/999	999/039	11/0739				
3 W BELLAIR							
30.18 81.91	999/999	999/039	11/0739				
5 SE ALACHUA							
29.73 -82.42	999/999	999/037	11/0229				
1 SW SAN PABLO							
30.27 -81.46	999/999	999/037	11/0246				
1 WNW STEVEN FOSTER ST PK							
30.83 -82.36	999/999	999/036	11/0801				
3 SSE SAN MARCO							
30.27 -81.65	999/999	999/036	11/0243				
2 NNW TALLYRAND							
30.39 -81.65	999/999	999/036	11/0400				
5 WSW DURBIN							
30.05 -81.54	999/999	999/035	11/0130				
1 SE SAN MARCO							
30.30 -81.64	999/999	999/034	11/0115				
3 WSW KINGSLAND							
30.77 81.73	999/999	999/034	11/0657				
4 NNW VILANO BEACH							
30.02 -81.32	1005.0	11/0308	I 050/051	10/2223	I 055/060	11/0308	I

REMARKS:

B. MARINE OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
SAUF1-CMAN STATION SAINT AUGUSTINE FL							
29.86	-81.26	986.0	11/0700	144/059	11/0720	140/073	11/0716
-----							
MYPF1-NOS STATION MAYPORT FL							
30.40	-81.43	988.0	11/1218	058/057	11/0736	053/078	11/0742
-----							
FRDF1-NOS STATION FERNANDINA BEACH FL							

30.67 -81.47 990.0 11/1312 145/029 11/1548 124/052 11/1236

NDF1-NOAA PORTS-NAVY DEPOT

30.40 -81.62 988.0 11/1200 9999999 99999 I 051/054 11/0800

BKBF1-NOAA PORTS- I-295 BRIDGE

30.18 -81.68 984.0 11/1142 060/050 11/0648 109/060 11/0936

BLIF1-NOAA PORTS, BLOUNT ISLAND COMMAND

30.39 -81.52 988.0 11/1212 117/041 11/1036 100/058 11/1000

REMARKS:

C. STORM TOTAL RAINFALL FROM 1200 UTC SEP 11 UNTIL 1200 UTC SEP 12

CITY/TOWN LAT LON DEG DECIMAL	COUNTY	ID	RAINFALL (IN)
4 W BELLAIR 29.75 -82.93	GILCHRIST		15.11
FERNANDINA BEACH 30.65 -81.45	NASSAU		12.70
GAINESVILLE REGIONAL APT 29.67 -82.34	ALACHUA	GNV	12.40
2.4 NW GAINESVILLE 29.69 -82.36	ALACHUA	FL-AL-57	12.22
0.9 ESE STARKE 29.94 -82.10	BRADFORD	FL-BF-2	11.74
8.8 S INTERLACHEN 29.48 -81.90	MARION	FL-MR-46	11.51
8.8 E MIDDLEBURG 30.04 -81.75	CLAY		11.32
7.5 WSW GAINESVILLE 29.63 -82.45	ALACHUA	FL-AL-60	11.15
1 WNW ORTEGA 30.27 -81.72	DUVAL		11.11
10 SW JACKSONVILLE 30.24 81.79	DUVAL		11.04
1.8 WSW ORANGE PARK 30.15 -81.73	CLAY	FL-CY-25	11.03
5.2 NNW ALACHUA 29.84 -82.51	ALACHUA	FL-AL-56	11.03
12 SSE JACKSONVILLE 30.18 81.57	DUVAL		11.00
3.5 NNW EAST PALATKA 29.69 -81.62	PUTNAM		10.96
1.7 SE GAINESVILLE 29.65 -82.32	ALACHUA	FL-AL-26	10.94
3.8 W GAINESVILLE	ALACHUA	FL-AL-10	10.89

29.67	-82.40			
2.4 SW GAINESVILLE		ALACHUA	FL-AL-50	10.75
29.64	-82.36			
2.1 NNE MICANOPY		ALACHUA	FL-AL-51	10.70
29.53	-82.26			
2.6 WNW GREEN COVE SPRIN		CLAY	FL-CY-42	10.48
30.00	-81.72			
1.8 ESE KEYSTONE HEIGHTS		CLAY	FL-CY-24	10.36
29.76	-82.01			
6 S NAHUNTA		BRANTLEY		10.34
31.12	-81.98			
7.7 W GAINESVILLE		ALACHUA	FL-AL-55	10.33
29.67	-82.46			
ST. AUGUSTINE SOUTH		ST. JOHNS		10.22
29.84	-81.31			
4.6 N OCALA		MARION	FL-MR-57	10.12
29.25	-82.13			
4 NE SATSUMA		PUTNAM		10.05
29.59	-81.61			
11.2 SW OCALA		MARION	FL-MR-59	9.96
29.07	-82.26			
6.3 S FERNANDINA BEACH		NASSAU		9.92
30.56	-81.45			
9.80 SW OCALA		MARION	FL-MR-43	9.91
29.08	-82.24			
10.7 WSW OCALA		MARION	FL-MR-56	9.90
29.12	-82.29			
0.4 N FERNANDINA BEACH		NASSAU		9.86
30.66	-81.45			
HOMELAND		CHARLTON		9.85
30.85	-82.02			
3 N OLUSTEE		BAKER		9.76
30.24	-82.43			
5 ESE THALMANN		GLYNN		9.65
31.29	-81.69			
14.30 S OCALA		MARION	FL-MR-36	9.65
28.97	-82.13			
3 SSW BELLEVIEW		MARION		9.64
29.01	-82.07			
0.9 NE RAIFORD		UNION		9.62
30.07	-82.23			
4.8 E BELLEVIEW		MARION	FL-MR-18	9.50
29.05	-81.97			
10 SW FOLKSTON		CHARLTON		9.30
30.73	-82.13			
JACKSONVILLE INTL APT		DUVAL	JAX	9.20
30.49	81.69			

5.9 S PALM COAST 29.48 -81.21	FLAGLER	FL-FL-25	9.10
4.9 NE OCKLAWAHA 29.09 -81.87	MARION	FL-MR-22	9.00
5.4 W GAINESVILLE 29.67 -82.43	ALACHUA	FL-AL-48	8.87
1 WSW ATKINSON 31.21 -81.87	BRANTLEY		8.74
2 NE FARGO 30.70 -82.54	CLINCH		8.66
1.1 SE OCALA 29.17 -82.12	MARION	FL-MR-54	8.63
2.3 ENE SCREVEN 31.49 -81.98	WAYNE		8.56
9 N FLORAHOME 29.86 -81.88	CLAY		8.55
10 NE KEYSTONE HEIGHTS 29.88 -81.91	CLAY	FL-CY-38	8.55
1.0 ENE BUNNELL 29.47 -81.24	FLAGLER	FL-FL19	8.48
5 NNW BLACKSHEAR 31.36 -82.28	PIERCE		8.45
SUWANNEE RIVER US HWY 44 30.68 82.56			8.44
7.9 SSW LAKE CITY 30.08 -82.69	COLUMBIA	FL-CB-12	8.44
3.2 SW HIGH SPRINGS 29.78 -82.63	ALACHUA	FL-AL-17	8.23
MAYPORT NAVAL STATION 30.38 -81.41	DUVAL	NRB	7.96
11 NNW STEVEN FOSTER ST. 32.57 -83.19	CHARLTON		7.81
7 NNW TAYLOR 30.53 -82.34	BAKER		7.79
0.6 ESE PALM COAST 29.56 -81.20	FLAGLER	FL-FL-21	7.67
1 WNW STEVEN FOSTER ST. 30.83 82.36			7.66
8.0 ENE TRENTON 29.65 -82.69	GILCHRIST	FL-GC-1	7.60
5 WNW JACKSONVILLE HEIGH 30.27 -81.86	DUVAL		7.54
5 SE ALACHUA 29.72 -82.42	ALACHUA		7.51
PENNEY FARMS 29.98 -81.81	CLAY	FL-CY-41	7.46
6.7 WSW JACKSONVILLE 30.30 -81.76	DUVAL		7.37

4 NNE MANDARIN 30.20 -81.61	DUVAL		7.35
4.2 NNW JESUP 31.65 -81.92	WAYNE		7.22
LITTLE SATILLA RIVER 31.45 82.05			7.14
JACKSONVILLE NAS 30.23 -81.68	DUVAL	NIP	7.08
10 NNW JESUP 31.73 -81.95	WAYNE		6.96
WAYCROSS 31.21 -82.36	WARE		6.86
3 WSW KINGSLAND 30.77 -81.71	INLAND CAMDEN		6.84
4.6 SSE MICANOPY 29.44 -82.25	MARION	FL-MR-42	6.83
3.5 ENE KEYSTONE HEIGHTS 29.79 -81.98	CLAY	FL-CY-7	6.78
1.9 S PALM COAST 29.54 -81.21	FLAGLER	FL-FL-26	6.72
4 NW TRENTON 29.65 -82.86	GILCHRIST	FL-GC-8	6.53
3.5 NE PEARSON 31.33 -82.81	ATKINSON		6.50
SATILLA RIVER HWY 158 31.30 82.56			6.49
BACON COUNTY AIRPORT 31.54 82.51	BACON		6.04
2 W DEENWOOD 31.24 -82.40	WARE		5.98
4 SW BAXLEY 31.72 -82.40	APPLING		5.89
ALAPAHA RIVER HWY 94 30.70 83.03			5.82
1 WNW ALACHUA 29.78 -82.50	ALACHUA		5.70
0.5 NNW NEPTUNE BEACH 30.32 -81.40	DUVAL	FL-DV-13	4.97
DOCTORTOWN 31.65 -81.83	WAYNE		4.92
3 SSW FOLKSTON 30.79 -82.03	CHARLTON		4.66
1 SSE LUMBER CITY 31.92 82.67			4.22

REMARKS:

D. INLAND FLOODING...



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BRADFORD...ALLIGATOR CREEK AT STARKE SETS RECORD FLOOD STAGE AT 147.98 FEET ON 09/11 AT 1100 EDT. SANTA FE RIVER NEAR GRAHAM SETS RECORD FLOOD STAGE AT 118.98 FEET ON 09/11 AT 0945 EDT. HAMPTON LAKE NEAR HAMPTON CRESTED AT 131.03 FEET ON SEPT 13TH AT 1200 EDT. MODERATE FLOODING OCCURS AT THIS LEVEL. LAKE SAMPSON NEAR STARKE SETS RECORD FLOOD STAGE AT 135.34 FEET ON SEPT 15TH AT 2000 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. NEW RIVER NEAR LAKE BUTLER SETS RECORD FLOOD STAGE AT 98.55 FEET ON SEPT 12TH AT 0815 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. SAMPSON RIVER AT SAMPSON CITY SETS RECORD FLOOD STAGE AT 135.09 FEET ON SEPT 15TH AT 1900 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL.

CLAY...BLACK CREEK AT MIDDLEBURG (BLANDING BLVD/SR 21) SETS RECORD FLOOD STAGE AT 30.52 FEET ON 09/12 AT 0130 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. NORTH FORK BLACK CREEK NEAR MIDDLEBURG SETS ESTIMATED RECORD FLOOD STAGE BETWEEN 28 AND 29 FEET ON SEPT 12TH. MAJOR FLOODING OCCURS AT THIS LEVEL. SOUTH FORK BLACK CREEK NEAR PENNEY FARMS SETS ESTIMATED RECORD FLOOD STAGE BETWEEN 28 AND 29 FEET ON SEPT 12TH. MAJOR FLOODING OCCURS AT THIS LEVEL.

MARION...OCKLAWAHA RIVER NEAR CONNER SETS RECORD FLOOD STAGE AT 40.07 FEET ON 09/11 AT 1000 EDT. OCKLAWAHA RIVER AT EUREKA SETS RECORD FLOOD STAGE AT 25.49 FEET ON 09/13 AT 0515 EDT. OCKLAWAHA RIVER NEAR OCALA SET RECORD FLOOD STAGE AT 41.31 FEET ON SEPT 11TH AT 0745 EDT.

PIERCE...ALABAHA RIVER AT GEORGIA HIGHWAY 203 NEAR BLACKSHEAR CRESTED AT 11.41 FT ON 09/12 AT 1730 EDT. MINOR FLOODING OCCURS AT THIS LEVEL.

BRANTLEY...SATILLA RIVER AT ATKINSON CRESTED AT 16.07 FEET ON SEPT 17TH AT 0845 EDT. MINOR FLOODING OCCURS AT THIS LEVEL.

FLAGLER...MATANZAS RIVER AT BINGS LANDING CRESTED AT 4.85 FEET ON SEPT 11TH AT 0424 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. HAW CREEK ABOVE RUSSELL LANDING SETS RECORD FLOOD STAGE AT 7.87 FEET ON SEPT 11TH AT 1430 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL.

DUVAL...ST JOHNS RIVER AT THE BUCKMAN BRIDGE SETS RECORD FLOOD STAGE AT 5.63 FEET ON SEPT 11TH AT 0718 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. BROWARD RIVER BELOW BISCAYNE BLVD CRESTED AT 4.08 FEET ON SEPT 11TH AT 0045 EDT. MODERATE FLOODING OCCURS AT THIS LEVEL. CLAPBOARD CREEK NEAR SHEFFIELD ROAD SETS RECORD FLOOD STAGE AT 5.31 FEET ON SEPT 11TH AT 0430 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. DUNN CREEK AT DUNN CREEK ROAD SETS RECORD FLOOD STAGE AT 6.38 FEET ON SEPT 11TH AT 0930 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. THE ST JOHNS RIVER AT THE DAMES POINT BRIDGE SETS RECORD FLOOD STAGE AT 5.05 FEET ON SEPT 11TH AT 1324 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. CEDAR RIVER AT SAN JUAN AVENUE SETS RECORD FLOOD STAGE AT 6.35 FEET ON SEPT 11TH AT 1230 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. JULINGTON CREEK AT OLD ST AUGUSTINE ROAD SETS RECORD FLOOD STAGE AT 6.20 FEET ON SEPT 11TH AT 1030 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. THE ST JOHNS RIVER AT THE MAIN STREET BRIDGE SETS RECORD FLOOD STAGE AT 5.57 FEET ON SEPT 11TH AT 1224 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. ST JOHNS RIVER AT MAYPORT CRESTED AT 5.58 FEET ON SEPT 11TH AT 0254 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. NASSAU RIVER NEAR TISONIA SETS RECORD FLOOD STAGE AT 8.18 FEET ON SEPT 11TH AT 0330 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. ORTEGA RIVER AT ARGYLE FOREST BLVD SETS RECORD FLOOD STAGE AT 12.99 FEET ON SEPT 11TH AT 1215 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. ST JOHNS RIVER AT BUFFALO BLUFF CRESTED AT 3.31 FEET ON SEPT 12TH AT 2315 EDT. MODERATE FLOODING OCCURS AT THIS LEVEL. POTTSBURG CREEK AT BEACH BLVD SETS RECORD FLOOD STAGE AT 5.84 FEET ON SEPT 11TH AT 1300 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. POTTSBURG CREEK AT BOWDEN ROAD SETS RECORD FLOOD STAGE AT 10.04 FEET ON SEPT 11TH AT 0800 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. TROUT RIVER AT LEM TURNER ROAD CRESTED AT 4.16 FEET ON SEPT 11TH AT 0200 EDT. MODERATE FLOODING OCCURS AT THIS LEVEL.

GLYNN...THE TIDAL GAUGE ON THE ATLANTIC COAST AT ST SIMONS ISLAND

VILLAGE PIER CRESTED AT 6.90 FEET ON SEPT 11TH AT 1145 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL.

CAMDEN...THE TIDAL GAUGE ON THE ATLANTIC COAST AT SEA CAMP DOCK ON CUMBERLAND ISLAND CRESTED AT 6.48 FEET ON SEPT 11TH AT 0200 EDT. MODERATE FLOODING OCCURS AT THIS LEVEL. SATILLA RIVER AT WOODBINE CRESTED AT 6.85 FEET ON SEPT 11TH AT 1445 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL.

PUTNAM...DUNNS CREEK AT SATSUMA CRESTED AT 4.26 FEET ON SEPT 11TH AT 1915 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. ORANGE CREEK AT ORANGE SPRINGS CRESTED AT 28.96 FEET ON SEPT 11TH AT 1115 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. OCKLAWAHA RIVER AT RODMAN DAM SETS RECORD FLOOD STAGE AT 9.70 FEET ON SEPT 13TH AT 1900 EDT.

ST JOHNS...DURBIN CREEK AT RACE TRACK ROAD CRESTED AT 6.69 FEET ON SEPT 11TH AT 1600 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. ST JOHNS RIVER AT RACY POINT CRESTED AT 4.60 FEET ON SEPT 11TH AT 1648 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. DEEP CREEK AT SPUDS SETS RECORD FLOOD STAGE AT 6.57 FEET ON SEPT 11TH AT 2200 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. TOLOMATO RIVER ABOVE ST AUGUSTINE AIRPORT SETS RECORD FLOOD STAGE AT 5.58 FEET ON SEPT 11TH AT 0206 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL.

CLINCH...SUWANNEE RIVER AT FARGO CRESTED AT 104.57 FEET ON SEPT 19TH AT 0245 EDT. MINOR FLOODING OCCURS AT THIS LEVEL.

NASSAU...THE TIDAL GAUGE ON THE ATLANTIC COAST AT FERNANDINA BEACH CRESTED AT 6.34 FEET ON SEPT 11TH AT 0148 EDT. MODERATE FLOODING OCCURS AT THIS LEVEL. THE ST MARYS RIVER AT I-95 CRESTED AT 3.57 FEET ON SEPT 11TH AT 1415 EDT. MINOR FLOODING OCCURS AT THIS LEVEL. GILCHRIST...SANTA FE RIVER NEAR HILDRETH CRESTED AT 21.22 FEET ON SEPT 17TH AT 0715 EDT. MINOR FLOODING OCCURS AT THIS LEVEL. SANTA FE RIVER NEAR FORT WHITE CRESTED AT 34.46 FEET ON SEPT 15TH AT 1545 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL

ALACHUA...SANTA FE RIVER NEAR HIGH SPRINGS SETS RECORD FLOOD STAGE AT 48.46 FEET ON SEPT 14TH AT 1800 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL AND US HIGHWAY 441 WAS BRIEFLY SHUT DOWN NEAR THE CREST. SANTA FE RIVER AT POE SPRINGS POOL SETS RECORD FLOOD STAGE AT 40.59 FEET ON SEPT 15TH AT 0400 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. SANTA FE RIVER AT RIVER RISE NEAR HIGH SPRINGS SETS RECORD FLOOD STAGE AT 50.48 FEET ON SEPT 14TH AT 1315 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL.

COLUMBIA...ICHETUCKNEE RIVER BELOW ICHETUCKNEE SPRINGS STATE PARK CRESTED AT 24.54 FEET ON SEPT 16TH AT 1900 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. SANTA FE RIVER AT OLENO STATE PARK SETS RECORD FLOOD STAGE AT 57.07 FEET ON SEPT 14TH AT 0715 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. SUWANNEE RIVER NEAR BENTON CRESTED AT 94.47 FEET ON SEPT 21ST. MINOR FLOODING OCCURS AT THIS LEVEL. SANTA FE RIVER AT THREE RIVERS ESTATES CRESTED AT 24.55 FEET ON SEPT 16TH AT 2000 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. SUWANNEE RIVER AT WHITE SPRINGS CRESTED AT 76.49 FEET ON SEPT 13TH AT 0045 EDT. MINOR FLOODING OCCURS AT THIS LEVEL.

BAKER...ST MARYS RIVER NEAR MACCLENNY CRESTED AT 22.32 FEET ON SEPT 12TH AT 1845 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL. ST MARYS RIVER AT MONIAC CRESTED AT 17.51 FEET ON SEPT 13TH AT 0415 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL.

WAYNE...LITTLE SATILLA RIVER NEAR OFFERMAN CRESTED AT 12.81 FEET ON SEPT 12TH AT 1745 EDT. MODERATE FLOODING OCCURS AT THIS LEVEL.

CHARLTON...ST MARYS RIVER AT TRADERS HILL SETS RECORD FLOOD STAGE AT 19.30 FEET ON SEPT 15TH AT 1445 EDT. MAJOR FLOODING OCCURS AT THIS LEVEL.

WARE...SATILLA RIVER AT GEORGIA HIGHWAY 158 ABOVE MILLWOOD CRESTED AT 14.91 FEET ON SEPT 14TH AT 2030 EDT. MINOR FLOODING OCCURS AT THIS LEVEL.

UNION...SANTA FE RIVER AT WORTHINGTON SPRINGS SETS RECORD FLOOD  
 STAGE AT 71.17 FEET ON SEPT 12TH AT 2200 EDT. MAJOR FLOODING OCCURS  
 AT THIS LEVEL.

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 E. MAXIMUM STORM SURGE AND STORM TIDE...  
 OFFICIAL TIDE GAUGES NOTED WITH LEADING G  
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COUNTY	CITY/TOWN OR LOCATION	SURGE (FT)	TIDE (FT)	DATE/ TIME	BEACH EROSION
FLAGLER	G BINGS LANDING	4.19	4.19	11/0824	UNKNOWN
DUVAL	G BUCKMAN BRIDGE	5.71	5.26	11/1118	UNKNOWN I
GLYNN	G ST SIMONS ISLAN	3.93	3.93	11/1545	UNKNOWN I
DUVAL	G BROWARD RIVER	2.78	2.78	11/0445	UNKNOWN I
DUVAL	G CLAPBOARD CREEK	3.47	3.47	11/1715	UNKNOWN
CAMDEN	G SEA CAMP DOCK O	3.13	3.13	11/0600	UNKNOWN
DUVAL	G DUNN CREEK	4.77	4.77	11/0930	UNKNOWN
DUVAL	G DAMES POINT BRI	5.97	3.69	11/1724	UNKNOWN
PUTNAM	G DUNNS CREEK NEA	3.60	3.60	11/2315	UNKNOWN
ST. JOHNS	G DURBIN CREEK AT	5.61	5.61	11/2000	UNKNOWN I
NASSAU	G FERNANDINA BEAC	7.78	3.61	11/0548	UNKNOWN
DUVAL	G CEDAR RIVER AT	5.66	5.66	11/1630	UNKNOWN
DUVAL	G JULINGTON CREEK	5.35	5.35	11/1430	UNKNOWN
CAMDEN	G ST MARYS RIVER	1.10	1.10	11/1815	UNKNOWN
DUVAL	G MAYPORT	6.44	3.62	11/0654	UNKNOWN
DUVAL	G SOUTHBANK RIVER	6.61	4.94	11/1624	UNKNOWN
ST JOHNS	G RACY POINT	4.72	3.96	11/2100	UNKNOWN
DUVAL	G NASSAU RIVER NE	6.21	6.21	11/0730	UNKNOWN I
DUVAL	G POTTSBURG CREEK	4.76	4.76	11/1700	UNKNOWN
DUVAL	G TROUT RIVER AT	2.91	2.91	11/0600	UNKNOWN I
ST JOHNS	G TOLOMATO RIVER	3.61	3.61	11/0606	UNKNOWN
CAMDEN	G SATILLA RIVER A	3.44	3.44	11/1845	UNKNOWN
ST JOHNS	G DEEP CREEK AT S	5.75	5.75	12/0200	UNKNOWN

REMARKS: OFFICIAL TIDE GAUGE SITES HAVE STORM TIDE WITH RESPECT TO  
 MHHW. TIMES IN UTC. TIDE GAUGE AT BUCKMAN BRIDGE STOPPED REPORTING  
 9/11 1347UTC AND THEREFORE MAY HAVE EXPERIENCED HIGHER WATER LEVELS.  
 FURTHER DETAILED ANALYSIS IS BEING DONE NEAR DOWNTOWN JAX ON WATER  
 LEVELS AND STORM SURGE.

F. TORNADES...  
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(DIST)CITY/TOWN LAT LON (DEG DECIMAL) DESCRIPTION	COUNTY	DATE/ TIME (UTC)	EF SCALE (IF KNOWN)
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1 SSE VILANO BEACH 29.93 -81.30	St. Johns	10/2350	EF1
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THIS TORNADO MAY HAVE INITIATED AS A WATERSPOUT THAT MOVED ONSHORE AT VILANO BEACH. MINIMAL DAMAGE WAS SEEN IN VILANO BEACH, WITH MORE TREE DAMAGE OBSERVED WEST OF VILANO BEACH. A FEW TREES WERE SNAPPED AND UPROOTED. RADAR INDICATED A TORNADO DEBRIS SIGNATURE. ESTIMATED PEAK WINDS WERE 85-100 MPH. THE PATH LENGTH WAS ABOUT 4 MILES AND THE WIDTH OF THE VORTEX WAS ABOUT 200 YARDS. THE TORNADO DAMAGE SURVEY BEGINS IN VILANO BEACH FLORIDA (29.93, -81.30) AROUND 7:50 PM LOCAL TIME ON 9/10. THE DAMAGE ENDED 4 MILES WEST OF VILANO BEACH (29.95, -81.38) AROUND 7:56 PM ON 9/10.

1 N ST. AUGUSTINE 29.90 -81.31	St. Johns	10/1740	EF1
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THIS TORNADO LIKELY BEGAN AS A WATERSPOUT THAT MOVED ONSHORE. SIGNIFICANT TREE DAMAGE OCCURRED AT HUGUENOT CEMETERY, WITH MORE TREE DAMAGE WESTWARD TOWARD HIGHWAY 1. THE TIME OF DAMAGE WAS BASED ON RADAR. PEAK WINDS WERE 85-100 MPH WITH TOTAL PATH LENGTH OF 1 MILE AND WIDTH OF 50 YARDS. THE TORNADO STARTED IN ST. AUGUSTINE (29.90, -81.31) AROUND 1:40 PM AND TRACKED TOWARD 1 MILE WEST OF ST. AUGUSTINE (29.90, -81.33) ENDING AROUND 1:45 PM.

1 SE CRESCENT BEACH 29.72 -81.23	ST. JOHNS	11/0415	EF2
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SIGNIFICANT STRUCTURAL DAMAGE OCCURRED AT SUMMER HOUSE VACATION RENTALS. THERE WERE CLEAR SIGNS OF A CIRCULATION IN THE DAMAGE PATTERN. TREE DAMAGE OCCURRED TO A1A. THE TORNADO APPEARED TO DISSIPATE OVER THE INTERCOASTAL WATERWAY. PEAK WINDS WERE 110-130 MPH. TOTAL PATH LENGTH WAS ABOUT 1 MILE WITH WIDTH OF 300 YARDS. THE TORNADO BEGAN AROUND 1:15 AM ABOUT 2 MILES SOUTH OF CRESCENT BEACH (29.72, -81.23) AND ENDED AROUND 1:20 AM ABOUT 3 MILES SSW OF CRESCENT BEACH (29.72, -81.25).

2 NNW FERNANDINA BEACH 30.69 -81.46	NASSAU	11/0625	EF0
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NO DAMAGE WAS REPORTED AS THE TORNADO TRACKED GENERALLY OVER OPEN MARSH. THERE WAS A CLEAR TORNADO DEBRIS SIGNATURE ON RADAR. THE TIME OF THE TORNADO WAS ESTIMATED BASED ON RADAR. PEAK WINDS REACHED 85-100 MPH. THE TOTAL PATH LENGTH WAS 11 MILES WITH UNKNOWN WIDTH. THE TORNADO STARTED NEAR FORT CLINCH (30.69, -81.46) AROUND 2:25 AM AND ENDED ABOUT 11 MILES WEST OF FORT CLINCH (30.69, -81.64) AROUND 2:35 AM.

2 NNW AMELIA CITY 30.61 -81.47	NASSAU	11/0625	EF0
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NO DAMAGE WAS REPORTED AS THE TORNADO TRACKED MOSTLY OVER OPEN TERRITORY. THERE WAS A CLEAR TORNADO DEBRIS SIGNATURE ON RADAR. THE TIME OF THE EVENT WAS BASED ON RADAR. PEAK WINDS REACH 85-100 MPH. PATH LENGTH WAS ABOUT 11 MILES AND THE WIDTH WAS UNKNOWN. THE TORNADO STARTED ABOUT 5 MILES SOUTH OF FORT CLINCH STATE PARK (30.61, -81.47) AROUND 2:25 AM AND ENDED ABOUT 9 MILES SOUTHWEST OF FORT CLINCH STATE PARK (30.61, -81.57) AROUND 2:30 AM.

2 S MARINELAND 29.64 -81.21	Flagler	11/0020	EF0
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INITIAL AERIAL SURVEY FOUND A TORNADO PATH OF TREE DAMAGE. THERE WAS NO STRUCTURAL DAMAGE REPORTED. A TORNADO DEBRIS SIGNATURE WAS DETECTED ALONG THE TORNADO PATH. PEAK WINDS WERE 85-100 MPH. THE PATH LENGTH WAS ABOUT 4 MILES AND THE WIDTH WAS UNKNOWN. THE TORNADO STARTED ABOUT 1 MILE SOUTH OF MARINELAND (29.64, -81.21) AROUND 8:20 PM AND TRACKED TO ABOUT 4 MILES WEST OF MARINELAND (29.67, -81.29)

AROUND 8:30 PM.

G. STORM IMPACTS BY COUNTY...

COUNTY                      DEATHS                      INJURIES                      EVACUATIONS  
DESCRIPTION

FLAGLER

FLAGLER COUNTY EXPERIENCED SURGE, WIND AND FLOODING RAINFALL DAMAGE FROM IRMA. THERE WAS ALSO ONE CONFIRMED EFO TORNADO TOUCHDOWN JUST SOUTH OF MARINELAND. TROPICAL STORM FORCE WIND GUSTS BEGAN SUNDAY MORNING AROUND 9:46 AM AT FLAGLER BEACH AS MEASURED BY A VOLUNTEER ARES OBSERVER WITH A WIND GUSTS OF 39 MPH. THROUGH NOON, GUSTS OF 40-45 MPH WERE MEASURED. AT 12:48 PM, SURF OVER-WASH WAS REPORTED AT MALACOMPA BEACH APPROACH NEAR THE HAMMOCK. AT 1:16 PM, WATER WAS REPORTED AT THE TOP OF THE SEA WALL IN PALM COAST. BY 2:31 PM WATER WAS OVER THE SEA WALL AND ONTO GRASS IN PALM COAST. ALSO AT 2:31 PM, ROOF SHINGLES AND SIDING WAS BLOWN OFF OF HOMES ALONG NORTH 20TH STREET AND A1A. AROUND 3 PM, POWER LINES WERE BLOWN DOWN AT THE BEVERLY BEACH CAMPTOWN RV RESORT. AT 4:31 PM, WATER WAS ABOUT 15 INCHES OVER THE SEA WALL IN PALM COAST. AT 4:40 PM, WATER WAS OVER THE ROAD ALONG WYNFIELD DRIVE IN PALM COAST. AT 5 PM, WATER WAS OVER THE SEA WALL AND THE RAMP AT BINGS LANDING AND HERSHAL KING PARKS ON THE INTERCOASTAL WATERWAY, AND WATER WAS OVER THE BOAT RAMP AT DEAD LAKE FISH CAMP. AT 5:35 PM, POWER OUTAGES WERE REPORTED AT STATION 71. AT 6:30 PM, AT 50 MPH WIND GUST WAS MEASURED NORTH OF FLAGLER BEACH. BY 8:28 PM, SUSTAINED TROPICAL STORM FORCE WINDS OF 40 MPH WERE MEASURED AT NORTH FLAGLER BEACH. AT 8:29 PM, TREES WERE BLOWN DOWN ONTO POWERLINES AT BURGESS PLACE. AT 8:30 PM, A MEASURED WIND GUST OF 50 MPH WAS RECORDED IN FLAGLER BEACH. AT 8:45 PM, TANGERINE TO LANCEWOOD WATEROAK TO HIBISCUS WAS UNDERWATER AND IMPASSABLE. AT 9:06 PM, A WIND GUST OF 60 MPH WAS MEASURED IN NORTH FLAGLER BEACH, AND BY 9:17 PM, A SUSTAINED WIND OF 45-50 MPH WAS MEASURED IN FLAGLER BEACH. BY 9:32 PM, THERE WERE MULTIPLE REPORTS OF 40-45 MPH WIND GUSTS INLAND AND 45-50 MPH GUSTS AT THE BEACHES. AT 9:40 PM, NUMEROUS SECONDARY ROADS IN DAYTONA NORTH WERE IMPASSABLE DUE TO FLOODING. THE EMERGENCY OPERATIONS CENTER IN BUNNELL MEASURED A WIND GUST OF 59 MPH AT 10:45 PM. AT 10:55 PM, THE ASOS AT THE FLAGLER COUNTY AIRPORT MEASURED A WIND GUST OF 59 MPH, THEN AT 11:58 PM, A SUSTAINED WIND OF 48 MPH WAS MEASURED IN FLAGLER BEACH. SEPTEMBER 11, AT 12:24 AM, A MEASURED WIND GUST OF 75 MPH WAS MEASURED IN FLAGLER BEACH WITH SUSATINED WINDS NEAR 50 MPH THROUGH 12:47 AM. AT 12:26 AM, A MEASURED GUST OF 72 MPH WAS MEASURED AT THE EMERGENCY OPERATIONS CENTER IN BUNNELL. AT 1:01 AM, THE COUNTY AIRPORT MEASURED A WIND GUST OF 63 MPH. AT 2 AM, ABOUT 2 FEET OF WATER WAS OVER THE SEA WALL IN PALM COAST. AT 2:38 AM, A SUSTAINED WIND OF 40 MPH WITH GUSTS TO 54 MPH WAS MEASURED AT FLAGLER BEACH, THEN AT 3 AM A SUSATINED WIND OF 54 MPH WITH A GUST OF 78 MPH WAS MEASURED IN FLAGLER BEACH. AT 3:10 AM, A MEASURED GUST OF 83 MPH WAS RECORDED AT FLAGLER BEACH. AT 3:13 AM, WAIST DEEP WATER WAS REPORTED ON EMERSON DRIVE IN PALM COAST. AT 4 AM, A REPORT OF STORM SURGE IMPACTED MARINELAND ACRES JUST SOUTH OF WASHINGTON OAKS STATE PARK. AT 4:03 AM, A SUSTAINED WIND OF 47 MPH WAS MEASURED WITH A GUST TO 67 MPH IN FLAGLER BEACH. AT 5:30 AM, A PORCH WAS BLOWN OFF ALONG CAROL COURT. AT 5:45 AM, WATER WAS 4 INCHES OVER THE SEA WALL IN PALM COAST. AT 6:49 AM, THERE WERE MULTIPLE REPORTS OF STORM SURGE FLOODING ALONG THE INTERCOASTAL WATERWAY IN FLAGLER BEACH. AT 7:22 AM, A WIND GUST OF 53 MPH WAS MEASURED IN PALM COAST. AT 7:44 AM, ALONG STATE ROAD 100 AND SOUTH CHAPEL, WATER WAS REPORTED OVER THE ROAD AS WELL AS TREES BLOWN DOWN. AT 8 AM, HOMES WERE DAMAGED ALONG WOODLASH LANE. AT 8:22 AM, BARRINGTON BECOME IMPASSABLE. AT 8:27 AM, A POWER LINE WAS REPORTED BLOWN DOWN ON BARKEY IN PALM COAST, THEN AT 8:31 AM TREES AND FENCES WERE BLOWN DOWN ALONG BELLE TERRE AND BALLAIRE BLVD. AT 10:19 AM, MULTIPLE HOMES WERE REPORTED UNDER WATER IN FLAGLER BEACH AND ALONG THE INTERCOASTAL WATERWAY. THE LAST MEASURED WIND OVER 40 MPH WAS MEASURED AT 1:15 PM. RAINFALL TOTALS INCLUDED 12.24 INCHES AT THE BUNNELL EMERGENCY OPERATIONS CENTER, 14.0 INCHES

IN CENTRAL PALM COAST AT THE COPC WATER PLANT 1, 10.03 INCHES IN SOUTHERN PALM COAST AT THE COPC WATER PLANT 2, 10.10 INCHES IN WEST PALM COAST AT THE COPC WATER PLANT 3, 8.82 INCHES IN EAST PALM COAST AND 5.6 INCHES IN WEST PALM COAST.

#### ALACHUA

COUNTYWIDE WIND DAMAGE INCLUDED TREES DOWN ACROSS ROADS AND ON HOMES. RESIDENTIAL HOMES FLOODED IN SOME AREAS DUE TO POOR DRAINAGE. TREES WERE BLOWN DOWN ACROSS THE UNIVERSITY OF FLORIDA CAMPUS AND WITHIN THE GAINESVILLE CITY LIMITS. AT 1015 PM ON 9/10, A 10 INCH IN DIAMETER SPRUCE TREE WAS BLOWN DOWN ABOUT 5 MILES WEST OF GAINESVILLE . THE U.S. HIGHWAY 441 BRIDGE AND U.S. HIGHWAY 27 BRIDGE OVER THE SANTE FE RIVER WAS CLOSED ON 9/13/2017 DUE TO RISING FLOOD WATER NEAR HIGH SPRINGS.

#### GLYNN

AT 4:15 AM ON 9/10, A TREE WAS BLOWN DOWN ONTO A CAR ALONG STUART AVENUE. THE TIME WAS BASED ON A PEAK WIND REPORTED AT THE ST. SIMONS ISLAND AIRPORT. AT 12:50 AM ON 9/11, A WATERSPOUT WAS OBSERVED OVER THE MARSH AREAS ALONG HIGHWAY 17, JUST WSW OF JEKYLL ISLAND.

#### BRADFORD

AT 10:35 AM ON 9/10, ALLIGATOR CREEK IN STARKE STARTED RISING UP TO THE BRIDGE LEVEL AT LAURA STREET. THIS OCCURRED IN CONJUNCTION WITH MAJOR FLOOD STAGE REPORTED AT THE ALLIGATOR CREEK GAUGE LOCATED JUST DOWNSTREAM AT U.S. HIGHWAY 301.

#### PUTNAM

AT 11:49 PM ON 9/10, A NURSING HOME IN PALATKA WAS FLOODED AND EVACUATIONS WERE ORDERED DUE TO FLASH FLOODING.

#### UNION

AT 8:15 AM ON 9/11, THE PUBLIC REPORTED POWER LINES WERE BLOWN DOWN ON SW 8TH STREET IN LAKE BUTLER.

#### DUVAL

TROPICAL STORM FORCE WIND GUSTS STARTED TO IMPACT DUVAL COUNTY DURING THE MORNING 9/10, WITH A GUST OF 50 MPH AROUND 6:21 AM AT HUGUENOT PARK. AT 7 AM, A WEATHERFLOW MESONET STATION AT BUCK ISLAND ON THE ST. JOHNS RIVER MEASURED A SUSTAINED WINDS OF 37 MPH AND A GUST TO 50 MPH. AT 9:20 PM, A MESONET STATION ABOUT 2 MILES WNW OF FORT CAROLINE MEASURED SUSTAINED WINDS OF 35 MPH WITH A GUST TO 50 MPH. AT 10:26 PM, THE ASOS AT THE JACKSONVILLE INTERNATIONAL AIRPORT NEAR THE NWS OFFICE MEASURED A 58 MPH WIND GUST. ON 9/11 AT 1:45 AM, THE NOS TIDE GAUGE AT MAYPORT MEASURED WATER LEVELS OF 2.9 FT TO 3 FT ABOVE MHHW DATUM. AT 3:23 AM, THE MAYPORT ASOS MEASURED A SUSTAINED WIND OF 51 MPH (44 KT) AND A GUST OF 74 MPH (64 KT). AT 3:38 AM, THE MAYPORT ASOS MEASURED A SUSTAINED WIND OF 68 MPH (59 KT) AND A GUST OF 87 MPH (76 KT). THIS WAS THE HIGHEST OFFICIAL RECORDED WIND SPEED OF IRMA ACROSS THE NWS JACKSONVILLE COUNTY WARNING AREA. AT 3:41 AM, THE ASOS AT THE JACKSONVILLE INTERNATIONAL AIRPORT MEASURED SUSTAINED WINDS OF 59 MPH (51 KT) AND A GUST OF 86 MPH (75 KT) WITHIN THE SAME POTENT RAIN-BAND THAT STRETCHED EASTWARD ACROSS MAYPORT. THIS WAS THE MOST INTENSE RAINFALL AND WIND RAIN BAND THAT IMPACT THE AREA WITH IRMA. AT 3:41 AM, THE WEATHERFLOW SENSOR AT HUGUENOT PARK MEASURED SUSTAINED WINDS OF 66 MPH AND GUSTS TO 85 MPH, AGAIN UNDER THE SAME RAIN BAND. AT 3:42 AM, MULTIPLE TREES WERE BLOWN DOWN OUTSIDE OF THE NWS JACKSONVILLE OFFICE AT THE JACKSONVILLE INTERNATIONAL AIRPORT FOLLOWING THE 86 MPH WIND GUST. ONE TREE FELL ON THE NWS OFFICE SIGN AND DAMAGED IT. AT 4:30 AM, THE ROOF WAS BLOWN OFF OF A HOME IN THE SANS SOUCI NEIGHBORHOOD. AT 5:45 AM, THE ST. JOHNS RIVER AT MAIN STREET IN DOWNTOWN JACKSONVILLE REPORTED A WATER LEVEL OF 4.39 FT NAVD88, WHICH BROKE THE RECORD FROM HURRICANE DORA OF 4.12 FT NAVD88 SET IN 1964. AT 8:26 AM, THE ASOS AT CRAIG AIRFIELD MEASURED A WIND GUST OF 70 MPH. AT 10:09 AM,

THE ASOS AT NAVAL AIR STATION (NAS) JACKSONVILLE IN ORANGE PARK MEASURED A WIND GUST OF 67 MPH. AT 10:14 AM, A PEAK WIND GUST OF 69 MPH WAS MEASURED AT NAS JACKSONVILLE. AT 3:59 PM, AN EVACUEE IN SAN MARCO ALONG THE ST. JOHNS RIVER NEAR DOWNTOWN JACKSONVILLE REPORTED WATER ROSE INTO HIS HOME UP TO HIS NECK (ABOUT 5 FT INUNDATION IN HIS HOME). HISTORIC RECORD SETTING FLOODING OF THE ST. JOHNS RIVER AND TRIBUTARIES DUE TO COMBINATION OF ELEVATED WATER LEVELS FROM NOR'EASTER EVENT, HIGH ASTRONOMICAL TIDES, RIVER SURGE AND STORM RAINFALL FROM IRMA. THE RIVER GAUGE AT THE MAIN STREET BRIDGE IN DOWNTOWN JACKSONVILLE SURPASSED HURRICANE DORA 1964 RECORD FLOODING THE MORNING OF 9/11 AT LOW TIDE WITH A VALUE OF OVER 5 FT DATUM NAVD88 (DORA RECORD WAS 4.12 FT NAVD88 DATUM). THE RIVER AT THIS LOCATION CRESTED AROUND 12:30 PM AT 5.57 FT NAVD88, WHICH IS AN ALL TIME RECORD STAGE. MAJOR FLOODING IMPACTED THE ST. JOHNS RIVER BASIN, AND ABOUT 350 WATER RESCUES WERE CONDUCTED IN DUVAL COUNTY, ESPECIALLY IN THE RIVERSIDE, SAN MARCO AND DOWNTOWN JACKSONVILLE AREAS.

#### ST JOHNS

ST. JOHNS COUNTY WAS IMPACTED BY STRONG TROPICAL STORM WINDS, STORM SURGE AS WELL AS MULTIPLE TORNADOES DUE TO HURRICANE IRMA. ON 9/10, A MESONET STATION IN VILANO BEACH MEASURED A SUSTAINED WIND OF 47 MPH WITH GUSTS UP TO 54 MPH. AT 9:39 AM, THE ST. AUGUSTINE AIRPORT AWOS STATION MEASURED WINDS OF 39 MPH WITH GUSTS UP TO 53 MPH. AT 10:05 AM, THE VILANO BEACH MESONET STATION MEASURED A WINDS OF 56 MPH WITH GUSTS OF 62 MPH. AT 7:40 PM, A MESONET STATION 2 MILES NW OF ST. AUGUSTINE MEASURED A SUSTAINED WIND OF 30 MPH WITH GUSTS TO 50 MPH. AT 8:46 PM, THE ST. AUGUSTINE AIRPORT AWOS MEASURED A WIND GUST OF 58 MPH. ON 9/11 AT 12:46 AM, THE ST. AUGUSTINE AWOS AT THE AIRPORT MEASURED A SUSTAINED WIND OF 48 MPH (42 KT) AND A GUST OF 71 MPH (62 KT). AT 1:30 AM, A ROOF WAS BLOWN OFF OF A BARN AT THE 2500 BLOCK OF DEERWOOD LANE. AT 3:30 AM, MULTIPLE TREES WERE BLOWN DOWN AT THE TRINITY RESCUE MISSION FREEDOM FARM FACILITY. A ROOF WAS BLOWN OFF OF ONE OF THE BUILDINGS AND A FENCE WAS BLOWN DOWN.

#### BAKER

MULTIPLE TREES WERE BLOWN DOWN ACROSS THE COUNTY. LARGE TREES 18-20 INCHES IN DIAMETER WERE BLOWN DOWN ABOUT 3 MILES WNW OF MACCLENNY.

#### MARION

MARION COUNTY EXPERIENCED WIDESPREAD TREE AND POWER LINE DAMAGE FROM TROPICAL STORM FORCE WINDS. A LOCATION ABOUT 5 MILES ENE OF OCALA MEASURED A 24-HR RAINFALL TOTAL ON 9/10 OF 7.30 INCHES, WHICH WAS IN ADVANCE OF IRMA'S HEAVY RAINFALL BAND. AT 1 AM ON 9/11, TREES AND POWER LINES WERE BLOWN DOWN ABOUT 10 MILES SW OF SANTOS. AT 1 AM, TREES WERE BLOWN DOWN AND BLOCKED THE ROAD ALONG SE 50TH TERRACE. TREES AND POWER LINES WERE BLOWN DOWN OVER THE ROAD AT THE INTERSECTION OF SE 50TH TERRACE AND SE 21ST STREET IN OCALA. ADDITIONAL REPORTS OF TREES AND POWER LINES BLOWN DOWN CONTINUED THROUGH THE PRE-DAWN HOURS ON 9/11 AROUND OCALA WITH A REPORT OF A TREE BLOWN DOWN ONTO A ROOF ON SW 41ST AVENUE IN OCALA. AT 2:20 AM, POWER LINES WERE BLOWN DOWN INTO A YARD ON 38TH STREET IN OCALA, AND AT 2:40 AM, A 12-INCH IN DIAMETER CRUSHED A VEHICLE AND TORE A HOLE INTO A ROOF ALONG SE 47TH PLACE IN OCALA. AT 8:35 PM ON 9/11, A PUBLIC REPORT OF 5.42 INCHES ABOUT 5 MILES ENE OF OCALA WAS RELAYED AS A STORM TOTAL RAINFALL FROM IRMA.

#### NASSAU

ON 9/11, A PRIVATE WEATHER STATION ON DUNES ROW AT THE SOUTH END OF AMELIA ISLAND AT 60 FT ELEVATION MEASURED A WIND GUST OF 106 MPH, BETWEEN 1 AM AND 2:30 AM. AT 3 AM, SEVERAL TREES WERE BLOWN DOWN ONTO HOMES NEAR FERNANDINA BEACH. AT 2 AM, THE FERNANDINA BEACH NOS TIDE GAUGE MEASURED WATER LEVEL RISES OF 3.5 TO 4 FT ABOVE MHHW DATUM.

#### CLAY

CLAY COUNTY EXPERIENCED WIDESPREAD WIND DAMAGE INCLUDING TREES DOWN, POWER LINES DOWN, AND STRUCTURAL DAMAGE DUE TO TROPICAL STORM FORCE WINDS. RAPID RIVER RISES AND EXTREMELY HEAVY RAINFALL CAUSED HISTORIC RIVER FLOODING ALONG THE ST. JOHNS RIVER AND BLACK CREEK, AS WELL AS TRIBUTARIES OF THESE RIVERS. AT 3:04 AM, 3 FT OF STORM SURGE ABOVE MHHW WAS REPORTED AT THE I-295 BRIDGE AND THE ST. JOHNS RIVER. NUMEROUS RIVER FRONT HOMES LOST PROPERTY AND HAD EXTENSIVE DOCK AND PIER DAMAGE, INCLUDING MANY STRUCTURES AND BOATS WASHED AWAY FROM THE SURGE. RIVER WATERS ROSE TO LEVELS EXCEEDING PRIOR MAJOR STAGE RECORDS. SEVERAL HELICOPTER RESCUES OCCURRED ALONG BLACK CREEK.

CAMDEN

TREES AND POWER LINES WERE DAMAGED NEAR SAINT MARYS DUE TO TROPICAL STORM FORCE WINDS. DOZENS OF PEOPLE WERE RESCUED BY BOATS DUE TO STORM SURGE AND RAINFALL FLOODING. LANGS MARINE IN ST. MARYS WAS HEAVILY DAMAGED, WITH DOCKS, PIERS AND BOATS DAMAGED AS WELL ALONG THE ST. MARYS RIVER DUE TO BOTH STORM SURGE AND TROPICAL STORM WINDS.

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Legend:  
I-Incomplete Data  
E-Estimated

NWS JAX



# Appendix D – Post-Tropical Cyclone Report from the Melbourne NWS WFO

044

ACUS72 KMLB 292144 CCA  
PSHMLB

POST TROPICAL CYCLONE REPORT...HURRICANE IRMA  
NATIONAL WEATHER SERVICE MELBOURNE FL  
545 PM EDT FRI SEP 29 2017

NOTE: THE DATA SHOWN HERE ARE PRELIMINARY...AND SUBJECT TO UPDATES AND CORRECTIONS AS APPROPRIATE.

THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS WERE IN EFFECT...OR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH IRMA OR ITS REMNANTS WAS AFFECTING THE AREA.

UPDATED (SEPT 29): ADDED PATRICK AFB TORNADO AND UPDATED COUNTY SPECIFIC DAMAGE AND INDIRECT FATALITY INFORMATION.

UPDATED (SEPT 25): NEW INFORMATION: RAIN TOTALS FROM USGUS AND COOP WERE ADDED, UPDATED DAMAGE TOTALS FROM BREVARD, LAKE, SEMINOLE, AND VOLUSIA COUNTIES, AND STORM SURGE AT TRIDENT PIER.

UPDATE (SEPT 23): ADDED INFORMATION REGARDING NORTH MERRITT ISLAND TORNADO, BREVARD COUNTY DAMAGE ESTIMATES, AND PEAK WIND GUSTS, AND NEW RAINFALL TOTALS.

MAX WINDS UPDATED (SEPT 20): ADDED ONE ADDITIONAL MAX SUSTAINED AND PEAK WIND.

MAX WINDS UPDATE (SEPT 19): ADDITIONAL MAX SUSTAINED AND PEAK WIND GUSTS ADDED.

RAINFALL UPDATE (SEPT 19): ADDITIONAL RAINFALL REPORTS ADDED.

TORNADO UPDATE (SEPT 19): NINE TORNADOES CONFIRMED IN BREVARD, VOLUSIA, AND LAKE COUNTIES...ROCKLEDGE TORNADO UPDATED TO EF-1.

PRELIMINARY REPORTS OF DAMAGE ESTIMATES FOR SOME COUNTIES HAS BEEN ADDED.

COUNTIES INCLUDED...VOLUSIA...LAKE...SEMINOLE...ORANGE...BREVARD...OSCEOLA...INDIAN RIVER...SAINT LUCIE...MARTIN...OKEECHOBEE

## A. LOWEST SEA LEVEL PRESSURE/MAXIMUM SUSTAINED WINDS AND PEAK GUSTS

METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUTES

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT	LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG	DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
KDAB-DAYTONA BEACH INTL, FL							
29.18	-81.05	984.8	11/0937	060/047	11/0246	050/068	11/0202
KFPR-FORT PIERCE/ST LUCIE CO INTL, FL							
27.49	-80.36	987.8	11/0238	130/062	10/2306	130/077	10/2309
KLEE-LEESBURG INTL, FL							
28.82	-81.80	977.0	11/0820	120/042	11/0735	120/060	11/0746
KMLB-MELBOURNE INTL, FL							
28.10	-80.64	988.1	11/0532	999/999	99/9999	999/999	99/9999
KMCO-ORLANDO INTERNATIONAL, FL							
28.42	-81.31	980.4	11/0720	110/051	11/0519	050/069	10/2244
KORL-ORLANDO EXECUTIVE, FL							
28.54	-81.33	981.4	11/0804	110/049	11/0504	120/068	11/0530

KSF8-ORLANDO/SANFORD, FL  
 28.77 -81.24 982.1 11/0746 130/048 11/0651 130/065 11/0731  
  
 KVRB-VERO BEACH, FL  
 27.65 -80.41 9999.0 / 999/999 99/9999 999/999 99/9999  
  
 KOBE-OKEECHOBEE COUNTY AP, FL  
 27.26 -80.85 9999.0 / 150/040 11/0315 130/062 11/0135  
  
 KCOF-PATRICK AFB/COCOA, FL  
 28.23 -80.60 9999.0 999/999 99/9999 999/999 99/9999  
  
 KSUA-WITHAM FIELD/STUART, FL  
 27.18 -80.22 9999.0 / 999/999 99/9999 999/999 99/9999  
  
 KTIX-SPACE COAST REGIONAL/TITUSVILLE, FL  
 28.51 -80.79 9999.0 / 999/999 99/9999 999/999 99/9999  
  
 KISM-KISSIMMEE GATEWAY AP  
 28.29 -81.43 990.4 11/0051 060/038 10/2349 080/058 11/0009  
  
 KXMR-CAPE CANAVERAL AFS SKID STRIP  
 28.46 -80.56 990.1 11/0441 110/051 11/0207 100/070 11/0214  
  
 KDED-DELAND MUNICIPAL AIRPORT  
 29.06 -81.28 9999.0 / 070/035 11/0215 070/055 11/0315  
  
 KTTS-SHUTTLE LANDING FACILITY  
 28.61 -80.69 9999.0 / 999/999 99/9999 999/999 99/9999

REMARKS: DATA FROM THE MELBOURNE (KMLB) ASOS, VERO BEACH (KVRB) ASOS,  
 SPACE COAST REGIONAL AIRPORT (KTIX), PATRICK AIR FORCE BASE (KCOF),  
 WITHAM FIELD AIRPORT IN STUART (KSUA), AND THE SHUTTLE LANDING  
 FACILITY (KTTS) WERE UNAVAILABLE.

NON-METAR OBSERVATIONS...US AIR FORCE WIND TOWERS...

NOTE: ANEMOMETER HEIGHT IN FEET INDICATED UNDER MAXIMUM SUSTAINED  
 WIND, IF KNOWN.

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT	LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG	DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
KSC0001	- USAF TOWER 1			MMM/MMM	MM/MMMM	108/045	11/0220
28.43	-80.57			12 FEET			
KSC0003	- USAF TOWER 3			102/049	11/0202	MMM/MMM	MM/MMMM
28.46	-80.53			12 FEET			
KSC	BALLOON LAUNCH FACILITY			MMM/MMM	MM/MMMM	MMM/102	MM/MMMM
28.47	-80.56			30 FEET			
KSC0001	- USAF TOWER 1			090/068	11/0220	100/082	11/0220
28.43	-80.57			54 FEET			
KSC0003	- USAF TOWER 3			110/058	11/0205	100/074	11/0205
28.46	-80.53			54 FEET			
KSC0019	- USAF TOWER 19			130/054	11/0315	130/070	11/0315
28.74	-80.70			54 FEET			
KSC0108	- USAF TOWER 108			090/049	11/0205	110/081	11/0205
28.54	-80.57			54 FEET			
KSC0211	- USAF TOWER 211			110/040	11/0220	090/073	11/0235
28.61	-80.62			54 FEET			
KSC0300	- USAF TOWER 300						

28.40 -80.65	140/056	11/0230	100/079	11/0135
	54 FEET			
KSC0303 - USAF TOWER 303				
28.46 -80.57	100/039	11/0220	110/071	11/0220
	54 FEET			
KSC0311 - USAF TOWER 311				
28.60 -80.57	100/048	11/0220	080/072	11/0210
	54 FEET			
KSC0403 - USAF TOWER 403				
28.46 -80.59	100/044	11/0220	090/072	11/0150
	54 FEET			
KSC0412 - USAF TOWER 412				
28.61 -80.67	103/039	11/0219	099/065	11/0218
	12 FEET			
KSC0412 - USAF TOWER 412				
28.61 -80.67	092/056	11/0219	092/076	11/0218
	54 FEET			
KSC0415 - USAF TOWER 415				
28.66 -80.70	090/037	11/0220	090/064	11/0215
	54 FEET			
KSC0418 - USAF TOWER 418				
28.71 -80.73	130/042	11/0145	160/069	11/0455
	54 FEET			
KSC0506 - USAF TOWER 506				
28.52 -80.64	080/042	11/0130	100/072	11/0230
	54 FEET			
KSC0509 - USAF TOWER 509				
28.57 -80.66	100/037	11/0220	100/065	11/0230
	54 FEET			
KSC1102 - USAF TOWER 1102				
28.57 -80.59	MMM/MMM	MM/MMMM	103/092	11/0210
	162 FEET			
KSC0021 - USAF TOWER 21				
28.44 -80.56	106/073	11/0218	MMM/MMM	MM/MMMM
	204 FEET			
KSC1102 - USAF TOWER 1102				
28.57 -80.59	MMM/MMM	MM/MMMM	087/092	11/0210
	204 FEET			
KSC0397 - USAF TOWER 397				
28.63 -80.62	076/081	11/0015	077/094	11/0015
	259 FEET			
KSC0397 - USAF TOWER 397				
28.63 -80.62	111/090	11/0239	104/101	11/0239
	458 FEET			

REMARKS: UNITED STATES AIR FORCE (USAF) HAVE A 1-MINUTE AVERAGING PERIOD FOR SUSTAINED WINDS.

NON-METAR OBSERVATIONS...OTHER STATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN.

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT	LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG	DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
KFLDAYTO14 - WEATHERSTEM DAYTONA BEACH (EMBRY RIDDLE)							
29.19	-81.05			140/061	11/0324	100/070	11/0205
EW9392 - DAYTONA INTERNATIONAL SPEEDWAY TOWER ROOF (175 FEET)							
29.19	-81.07			045/039	11/0315	030/068	11/0315
EW5900 - DAYTONA INTERNATIONAL SPEEDWAY INFIELD (30 FEET)							
29.18	-81.07			023/036	11/0331	110/068	11/0301
XNSB - WEATHERFLOW NEW SMYRNA BEACH							
29.04	-80.90			090/053	11/0309	090/071	11/0324
XCCB - WEATHERFLOW MERRITT ISLAND (BANANA RIVER AT SR520)							
28.36	-80.65			080/049	11/0107	080/063	11/0037

XPAR - WEATHERFLOW TITUSVILLE (PARRISH PARK NORTH)					
28.63 -80.81	110/049	11/0220	110/065	11/0215	
XJEN - WEATHERFLOW JENSEN BEACH					
27.22 -80.20	140/048	10/2345	140/061	10/2345	
XDAI - WEATHERFLOW MELBOURNE (DAIRY ROAD)					
28.04 -80.64	120/037	11/0232	130/066	11/0417	
XMER - WEATHERFLOW MERRITT ISLAND (BANANA RIVER AT SR528)					
28.40 -80.66	100/051	11/0120	120/082	11/0140	
XSTL - WEATHERFLOW ST. LUCIE (ST. LUCIE POWER PLANT)					
27.35 -80.24	130/062	10/2304	130/087	11/2304	
XCOA - WEATHERFLOW COCOA BEACH CLUB					
28.31 -80.63	080/047	11/0022	080/072	11/0102	
XVER - WEATHERFLOW VERO BEACH (CITY HALL)					
27.63 -80.39	140/032	11/0219	140/054	11/0219	
XAQU - WEATHERFLOW MELBOURNE BEACH (AQUARINA R&D LAB)					
27.94 -80.49	090/048	10/2302	100/065	10/2327	
XHOB - WEATHERFLOW HOBE SOUND					
27.05 -80.17	110/040	10/2144	120/062	10/2309	
KFLSTUAR26 - WEATHERSTEM STUART (SOUTH FORK HIGH)					
27.08 -80.25	MMM/MMM	MM/MMMM	MMM/065	10/2155	
XSPR - WEATHERFLOW ALTAMONTE SPRINGS (SPRING LAKE)					
28.66 -81.41	120/029	11/0631	100/050	11/0456	
XRDY - WEATHERFLOW HORIZON WEST (REEDY LAKE)					
28.44 -81.63	170/039	11/0821	130/060	11/0606	
XIND - WEATHERFLOW NEAR GRANT-VALKARIA (INDIAN RIVER)					
27.96 -80.53	090/044	10/2306	090/058	10/2306	
KFLORLAN212 - WEATHERSTEM ORANGE COUNTY (LAKE NONA MIDDLE SCHOOL)					
28.37 -81.25	MMM/MMM	MM/MMMM	071/066	11/0011	
KFLORLAN179 - WEATHERSTEM ORANGE COUNTY (UNIVERSITY OF CENTRAL FLORIDA)					
28.59 -81.20	MMM/MMM	MM/MMMM	170/053	11/0445	
KFLKISSI30 - WEATHERSTEM OSCEOLA COUNTY (POINCIANA HIGH SCHOOL)					
28.23 -81.49	MMM/MMM	MM/MMMM	220/063	11/0113	
WDW03 - WALT DISNEY WORLD ANIMAL KINGDOM (102 FEET)					
28.42 -81.58	MMM/MMM	MM/MMMM	MMM/056	11/0700	
WDW08 - WALT DISNEY WORLD EPCOT					
28.37 -81.55	MMM/MMM	MM/MMMM	MMM/053	11/0450	
WDW09 - WALT DISNEY WORLD MAGIC KINGDOM (98 FEET)					
28.42 -81.58	MMM/MMM	MM/MMMM	MMM/062	11/0605	
LKBDC - WALT DISNEY WORLD CONTEMPORARY RESORT (106 FEET)					
28.42 -81.57	MMM/MMM	MM/MMMM	MMM/079	11/0050	
LKBNT - WALT DISNEY WORLD TOWER OF TERROR (131 FEET)					
28.36 -81.56	MMM/MMM	MM/MMMM	MMM/063	11/0430	
KFLMELBO72 - MELBOURNE SHORES (34 FT)					
27.96 -80.51	135/056	11/0325	135/075	11/0350	

REMARKS: WEATHERFLOW SITE XIND STOPPED REPORTING AT 10/2316.  
WEATHERFLOW SITE XSPR STOPPED REPORTING AT 11/1111.

B. MARINE OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION LAT LON DEG DECIMAL	ID	MIN PRES (MB)	DATE/ TIME (UTC)	MAX SUST (KT)	DATE/ TIME (UTC)	PEAK GUST (KT)	DATE/ TIME (UTC)
------------------------------------	----	---------------------	------------------------	---------------------	------------------------	----------------------	------------------------

BUOY 41009							
28.52	-80.19	992.2	11/0830	090/049	11/0250	090/066	11/0250
TRDF1 - PORT CANAVERAL (TRIDENT PIER)							
28.42	-80.59	990.2	11/0700	153/046	11/0942	142/059	11/0742

REMARKS: TRIDENT PIER TRDF1 STOPPED REPORTING AT 11/0441Z.

C. STORM TOTAL RAINFALL FROM 1200 UTC SEP 09 UNTIL 1200 UTC SEP 12

CITY/TOWN LAT LON DEG DECIMAL	COUNTY	ID	RAINFALL (IN)
FT. PIERCE WP (COOP) 27.44 -80.35	ST. LUCIE	FPCF1	21.66
CHRISTMAS (SPOTTER) 28.57 -81.02	ORANGE	ORA-048	17.44
FT. PIERCE (COCORAHS) 27.56 -80.40	ST. LUCIE	FL-SL-41	17.25
FT. PIERCE (AIRPORT ASOS) 27.49 -80.37	ST. LUCIE	KFPR	15.88
FT. PIERCE (SFWMD) 27.47 -80.47	ST. LUCIE	NCSF1	15.18
INDIAN RIVER (FAWN) 27.62 -80.57	INDIAN RIVER	IRVF1	14.15
UNION PARK (COCORAHS) 28.56 -81.17	ORANGE	FL-OR-10	13.79
PALM SHORES (COCORAHS) 28.24 -80.68	BREVARD	FL-BV-20	13.74
PALM BAY (COCORAHS) 27.95 -80.64	BREVARD	FL-BV-59	13.23
MIMS (COCORAHS) 28.69 -80.99	VOLUSIA	FL-VL-49	12.87
LAKE MARY (USGS) 28.79 -81.41	LAKE	LSPF1	12.46
UNION PARK (COCORAHS) 28.59 -81.22	ORANGE	FL-OR-19	12.36
OVIDO (COCORAHS) 28.66 -81.25	SEMINOLE	FL-SM-12	12.14
VERO BEACH (COCORAHS) 27.64 -80.48	INDIAN RIVER	FL-IR-36	12.10
CAPE CANAVERAL* (ASOS) 28.48 -80.57	BREVARD	KXMR	12.08 I
OVIDO (COCORAHS) 28.64 -81.17	SEMINOLE	FL-SM-20	12.06

ORANGE (COCORAHS) 28.59 -81.11	ORANGE	FL-OR-23	12.05
YEEHAW JUNCTION (SJRWMD) 27.70 -80.90	OSCEOLA	M	12.00
SANFORD (COOP) 28.81 -81.28	SEMINOLE	SFNF1	11.95
MELBOURNE (ASOS) 28.10 -80.65	BREVARD	KMLB	11.84
DE LAND (COCORAHS) 29.10 -81.36	VOLUSIA	FL-VL-9	11.82
10 MILE CREEK (SFWMD) 27.40 -80.43	ST. LUCIE	TMWF1	11.82
MELBOURNE WFO (COOP) 28.11 -80.65	BREVARD	MLBF1	11.82
APOPKA (COCORAHS) 28.67 -81.46	ORANGE	FL-OR-43	11.80
GENEVA (USGS) 28.71 -81.04	SEMINOLE	GNEF1	11.74
MT. PLYMOUTH (COOP) 28.79 -81.53	LAKE	PLTF1	11.59
APOPKA (COCORAHS) 28.68 -81.47	ORANGE	FL-OR-16	11.58
PORT ST. LUCIE (COCORAHS) 27.30 -80.36	ST. LUCIE	FL-SL-46	11.55
DE LAND (COCORAHS) 29.04 -81.33	VOLUSIA	FL-VL-21	11.53
TITUSVILLE (COCORAHS) 28.63 -80.86	BREVARD	FL-BV-74	11.38
RANSOM RD - NASA (SJRWMD) 28.51 -80.68	BREVARD	M	11.34
TITUSVILLE (COCORAHS) 28.63 -80.86	BREVARD	FL-BV-38	11.33
LADY LAKE (COCORAHS) 28.95 -81.94	LAKE	FL-LK-22	11.26
CHULUOTA (COCORAHS) 28.65 -81.12	SEMINOLE	FL-SM-8	11.22
ROCK SPRINGS WELL (SJRWMD) 28.77 -81.44	ORANGE	M	11.16
PALM BAY (COCORAHS) 27.95 -80.64	BREVARD	FL-BV-1	11.10
VERO BEACH (COCORAHS) 27.61 -80.39	INDIAN RIVER	FL-IR-27	11.04
LADY LAKE (COCORAHS) 28.89 -81.94	LAKE	FL-LK-16	11.03
APOPKA (FAWN) 28.64 -81.55	ORANGE	POPF1	11.01
LADY LAKE (COCORAHS) 28.92 -81.91	LAKE	FL-LK-21	10.80

PALM BAY STP (SJRWMD) 28.02 -80.60	BREVARD	M	10.67
L. BUENA VISTA (REEDY CREEK) 28.39 -81.52	ORANGE	M	10.65
LAKE APOPKA NSRA (SJRWMD) 28.65 -81.57	ORANGE	M	10.65
YEEHAW JUNCTION (SFWMD) 27.68 -81.02	OSCEOLA	YEHF1	10.61
VERO BEACH (COCORAHS) 27.64 -80.45	INDIAN RIVER	FL-VL-24	10.61
BAY LAKE (COCORAHS) 28.36 -81.63	ORANGE	FL-OR-35	10.59
BITHLO (USGS) 28.44 -81.17	ORANGE	WELF1	10.54
STUART (COOP) 27.19 -80.24	MARTIN	STRF1	10.53
PALM BAY PUB WRK (SJRWMD) 27.99 -80.70	BREVARD	M	10.52
ORLANDO (COCORAHS) 28.57 -81.39	ORANGE	FL-OR-27	10.51
UMATILLA (FAWN) 28.93 -81.65	LAKE	UMLF1	10.49
PORT ST. LUCIE (COCORAHS) 27.32 -80.31	ST. LUCIE	FL-SL-19	10.36
MAGIC KINGDOM (REEDY CREEK) 28.43 -81.58	ORANGE	M	10.29
FT. WILDERNESS (REEDY CREEK) 28.41 -81.56	ORANGE	M	10.21
WDW SERVICE AR (REEDY CREEK) 28.38 -81.59	ORANGE	M	10.21
LEESBURG (COCORAHS) 28.84 -81.91	LAKE	FL-LK-30	10.13
VERO BEACH (COCORAHS) 27.60 -80.42	INDIAN RIVER	FL-IR-26	10.11
PARRISH PARK (SJRWMD) 28.76 -80.88	BREVARD	M	10.07
PINE MEADOWS C A (SJRWMD) 28.88 -81.66	LAKE	M	10.05
PIERSON (USGS) 29.23 -81.49	VOLUSIA	LGRF1	10.03
PALM SHORES (COCORAHS) 28.19 -80.68	BREVARD	FL-BV-2	10.01
VERO BEACH (COCORAHS) 27.64 -80.42	INDIAN RIVER	FL-IR-15	10.00

REMARKS:

\*THE LAST OBSERVATION FROM THE CAPE CANAVERAL ASOS (KXMR) OCCURRED AT 0441 UTC SEP 11.

THIS REPORT ONLY INCLUDES VALUES OF 10 INCHES OR GREATER. A PUBLIC INFORMATION STATEMENT (PNS) WILL BE ISSUED WITH ALL THE RAINFALL TOTALS GATHERED ACROSS EAST CENTRAL FLORIDA. THIS INFORMATION IS PRELIMINARY AND MAY CHANGE AS MORE INFORMATION IS RECEIVED.

D. INLAND FLOODING...

ST. LUCIE...REPORTS THAT US 1 AT ORANGE AVE IS IMPASSABLE DUE TO FLOODING

ST. LUCIE...REPORTS OF FLOODING IN A HOME ON EL RANCHO DR IN FORT PIERCE

ST. LUCIE.....UPDATED...A 1 MILE STRETCH OF US 1 FROM ORANGE AVE TO VIRGINIA AVE IS IMPASSABLE DUE TO FLOODING

ST. LUCIE...PHOTO AND REPORT RELAYED VIA SOCIAL MEDIA OF WATER INSIDE A HOME NEAR 25TH ST AND VIRGINIA AVE

ST. LUCIE...PHOTO RELAYED VIA SOCIAL MEDIA OF HOME AND PARKED CARS FLOODED

INDIAN RIVER...INDIAN RIVER COUNTY SHERIFF AND FELLSMERE POLICE RESCUED 12 PEOPLE FROM FLOOD WATERS.

BREVARD...REPORTS OF FLOOD WATER UP TO MAILBOXES

BREVARD...PHOTOS RELAYED VIA SOCIAL MEDIA OF SIGNIFICANT FLOODING ON DESOTO PARKWAY IN SATELLITE BEACH

BREVARD...VIDEO RELAYED VIA SOCIAL MEDIA OF ANKLE DEEP FLOODING ALONG EBER BLVD IN WEST MELBOURNE

BREVARD...VIDEO RELAYED VIA SOCIAL MEDIA OF FLOODING AT US 1 AND FAY BLVD

BREVARD...REPORT VIA SOCIAL MEDIA OF WAIST DEEP FLOODING AND DEEP WATER IN HOMES ON 12TH AVE NEAR S RAMONA IN INDIALANTIC.

VOLUSIA...PHOTO RELAYED VIA SOCIAL MEDIA OF SEVERE FLOODING ALONG BEACH STREET IN DAYTONA BEACH

VOLUSIA...DAYTONA BEACH POLICE REPORT SIGNIFICANT FLOODING EAST OF US 1

VOLUSIA...DAYTONA BEACH POLICE REPORT SIGNIFICANT FLOODING EAST OF US 1

ORANGE...FIRE DEPT AND NATIONAL GUARD RESCUING RESIDENTS FROM FLOODED HOMES

E. MAXIMUM STORM SURGE AND STORM TIDE...  
OFFICIAL TIDE GAUGES NOTED WITH LEADING G

COUNTY	CITY/TOWN OR LOCATION	SURGE (FT)	TIDE (FT)	DATE/ TIME	BEACH EROSION
BREVARD	G TRIDENT PIER	4.20	4.18	11/0318	MODERATE

REMARKS: STORM TIDE DATUM REFERENCED TO MHHW.

F. TORNADOES...

(DIST)CITY/TOWN LAT LON (DEG DECIMAL) DESCRIPTION	COUNTY	DATE/ TIME (UTC)	EF SCALE (IF KNOWN)
MELBOURNE BEACH TORNADO	BREVARD	10/1319	EF-0



28.07 -80.56

BASED ON A NWS STORM SURVEY, A WATERSPOUT MOVED ONSHORE MELBOURNE BEACH NEAR AVENUE B, CAUSING MINOR DAMAGE TO THE SECOND FLOOR OF TWO HOMES. THE BRIEF EF-0 TORNADO WITH WINDS ESTIMATED AT 70 TO 80 MPH CONTINUED INLAND AND DISSIPATED JUST WEST OF HIGHWAY 1A1A.

TURKEY CREEK TORNADO                      BREVARD                      10/1500                      EF-1  
28.03 -80.58

BASED ON A NWS STORM SURVEY, A WATERSPOUT THAT DEVELOPED ON THE INDIAN RIVER MOVED ONSHORE AND DAMAGED SEVERAL RESIDENCES ON WORTH COURT, INCLUDING A WATERFRONT HOME WHOSE SECOND FLOOR WAS REMOVED AND CARRIED DOWNWIND. THE EF-1 TORNADO (ESTIMATED 100 TO 110 MPH) CONTINUED ACROSS US-1, CAUSING MINOR ROOF DAMAGE TO A UNIVERSITY BUILDING. THE TORNADO THEN IMPACTED OVER A DOZEN MOBILE HOMES WITHIN PALM BAY ESTATES, SEVERAL OF WHICH WERE HEAVILY DAMAGED OR DESTROYED. THE TORNADO CONTINUED WEST, JUST TO THE NORTH OF TURKEY CREEK, DAMAGING MANY TREES AND SEVERAL ADDITIONAL HOMES BEFORE MOVING THROUGH A SCHOOL CAMPUS BEFORE DISSIPATING NEAR THE HARRIS CORPORATION.

INDIALANTIC TORNADO                      BREVARD                      10/1524                      EF-1  
28.09 -80.57

A NWS STORM SURVEY REVEALED THAT A WATERSPOUT MOVED ONSHORE THE BARRIER ISLAND IN INDIALANTIC NEAR HIGHWAY 1A1A AND 1ST AVENUE. THE EF-1 TORNADO (WINDS ESTIMATED 90-100 MPH) REMOVED PART OF THE ROOF OF A BEACHFRONT CONDO AND CARRIED IT ACROSS THE HIGHWAY, WHERE IT LANDED ON A BANK. THE TORNADO THEN WEAKENED AS IT TRAVELED WEST-NORTHWEST, PRODUCING DAMAGE TO TREES AND ROOF SHINGLES AND SOFFITS OF SEVERAL HOMES ALONG A NARROW PATH ACROSS THE BARRIER ISLAND, EXITING TO THE INDIAN RIVER NEAR CEDAR LANE AND WEST RIVERIA BOULEVARD.

MIMS KILBEE STREET TORNADO              BREVARD                      10/2149                      EF-2  
28.69 -80.85

BASED ON A NWS STORM SURVEY, A TORNADO DEVELOPED NEAR THE NORTH END OF NAB STREET AND THE EAST END OF BENSON COURT IN MIMS. A PICKUP TRUCK NEAR THE CORNER OF BENSON COURT AND LISA DRIVE ROLLED ABOUT 30 FEET WEST INTO THE FENCE OF AN ADJACENT YARD. THE TORNADO STRENGTHENED TO EF-2 INTENSITY WITH ESTIMATED WIND SPEEDS OF 115 TO 125 MPH AS IT AFFECTED HOMES ON KILBEE STREET, TURNBULL ROAD, AND BREVARD ROAD. NUMEROUS HOMES WERE IMPACTED AND SEVERAL WERE LEFT UNINHABITABLE DUE TO SEVERE ROOF DAMAGE. A NUMBER OF TREES WERE SNAPPED AND UPROOTED AS THE TORNADO CONTINUED WEST NORTHWEST ACROSS OLD DIXIE HIGHWAY. THE TORNADO DISSIPATED SHORTLY AFTER CROSSING US HIGHWAY 1.

MIMS NORTHGATE TORNADO                      BREVARD                      10/2201                      EF-1  
28.69 -80.86

BASED ON A NWS STORM SURVEY, AN EF-1 TORNADO, WITH ESTIMATED WIND SPEEDS BETWEEN 90 TO 95 MPH, SNAPPED AND UPROOTED SEVERAL TREES AS IT DEVELOPED NEAR OLD DIXIE HIGHWAY. THE TORNADO CONTINUED ACROSS US HIGHWAY 1 AND THE NORTHERN PORTION OF THE NORTHGATE MOBILE HOME AND RV PARK, DAMAGING OVER A DOZEN HOMES, SEVERAL OF WHICH EXPERIENCED PARTIAL ROOF REMOVAL. IN ADDITION, SEVERAL POWER POLES SNAPPED IN THE DEVELOPMENT AND ONE LANDED ON A HOME. THE TORNADO ALSO ROLLED SEVERAL UNOCCUPIED RV'S ONTO TO THEIR SIDES, WHICH WERE BEING STORED IN A PARKING LOT BETWEEN US HIGHWAY 1 AND THE MOBILE HOME PARK.

UMATILLA TORNADO                              LAKE                              10/2226                      EF-1  
28.94 -81.62

A NWS STORM SURVEY REVEALED AN EF-1 TORNADO WITH ESTIMATED WIND SPEEDS BETWEEN 95 AND 100 MPH DEVELOPED NEAR EAST 8TH AVENUE IN UMATILLA, UPROOTING AND SNAPPING SEVERAL TREES IN AN OPEN FIELD. THE TORNADO MOVED TOWARD A RESIDENTIAL NEIGHBORHOOD BETWEEN EAST 8TH AVENUE AND EAST COLLINS STREET AND PEELED BACK THE ROOFS FROM

SEVERAL HOMES AND UPROOTED NUMEROUS TREES. DAMAGE CONTINUED INTO NORTH LAKE COMMUNITY PARK WHERE A SCOREBOARD WAS TOPPLED AND THREE POWER LINES WERE SNAPPED. THE TORNADO MOVED ACROSS LAKE PEARL AND INTO THE OLDE MILL RV RESORT WHERE IT DESTROYED APPROXIMATELY TEN RECREATIONAL VEHICLES AND DAMAGED AT LEAST 25 OTHERS. THE TORNADO CONTINUED WEST TOWARD DOWNTOWN UMATILLA AND DAMAGED THE ROOFS OF THE UMATILLA INN, AN ELEMENTARY SCHOOL, AND A HOME ON BABB ROAD.

ORMOND BEACH TORNADO VOLUSIA 11/0104 EF-1  
29.29 -81.06

BASED ON A NWS STORM SURVEY, A WATERSPOUT MOVED ONSHORE FROM THE HALIFAX RIVER NEAR DIX AVENUE AND NORTH BEACH STREET IN ORMOND BEACH, CAUSING TREE DAMAGE AND MINOR SIDING AND SHINGLE DAMAGE TO A FEW TWO STORY HOMES. THE TORNADO CONTINUED INLAND AND PRODUCED STRONG EF-1 DAMAGE (ESTIMATED 100 TO 110 MPH) TO SEVERAL HOMES AND TREES NEAR THE INTERSECTION OF HERNANDEZ AVENUE, NORTH RIDGEWOOD AVENUE AND ROSEWOOD AVENUE. SEVERAL HOMES SUSTAINED MAJOR ROOF DAMAGE. THE TORNADO THEN DOWNED TREES AND PRODUCED DEBRIS IMPACT AT THE ORMOND BEACH FIRE STATION 93 AND DAMAGING THE ROOFS OF TWO COMMERCIAL BUILDINGS NEAR US HIGHWAY 1 AND WILMETTE AVENUE. THE TORNADO DISSIPATED JUST WEST OF US HIGHWAY 1.

PATRICK AFB TORNADO BREVARD 11/0104 EF-1  
28.23 -80.60

BASED ON A NWS STORM SURVEY, A WATERSPOUT MOVED ONSHORE FROM THE ATLANTIC AND CAUSED TORNADO DAMAGE AS IT CONTINUED ACROSS THE BARRIER ISLAND, AFFECTING PATRICK AIR FORCE BASE. THE EF-1 TORNADO (ESTIMATED 85-95 MPH) REMOVED THE ROOF FROM A SMALL BUILDING EAST OF HIGHWAY 1A1, THEN PRODUCED MINOR TO MODERATE DAMAGE TO SEVERAL STORAGE BUILDINGS, MAINLY IN THE FORM OF PARTIAL LOSS OF ROOF COVERINGS AND BROKEN GLASS IN SOME EAST AND NORTH FACING WINDOWS. SEVERAL LARGE, STEEL CONEX STORAGE CONTAINERS WITHIN THE TORNADO PATH WERE ROLLED 100+ FEET DOWNWIND (NORTHWEST). DAMAGE ALSO OCCURRED TO ANTENNAS MOUNTED ON FREE STANDING TOWERS AND TO SOME SMALL TREES AND SHRUBS. THE TORNADO THEN WEAKENED AS IT APPROACHED THE BANANA RIVER.

ROCKLEDGE TORNADO BREVARD 11/0114 EF-1  
28.28 -80.69

A NWS STORM SURVEY CONFIRMED THAT A WATERSPOUT MOVED ONSHORE ALONG ROCKLEDGE DRIVE NEAR RIVER WOODS DRIVE AND PRODUCED EF-1 TORNADO DAMAGE (WINDS ESTIMATED AT 95-105 MPH) ALONG A SHORT TRACK. APPROXIMATELY SIX HOMES SUSTAINED SIGNIFICANT ROOF DAMAGE AND NUMEROUS TREES WERE SNAPPED OR UPROOTED. A PORTION OF ONE ROOF WAS REMOVED AND AT LEAST ONE OTHER HOME HAD A PORTION OF ITS METAL ROOF PEELED BACK. SEVERAL HOMES ADJACENT TO THE AREA OF MOST SIGNIFICANT DAMAGE ALSO EXPERIENCED A LESSER DEGREE OF SHINGLE DAMAGE. AT LEAST ONE SCREEN PATIO WAS DESTROYED, SEVERAL OTHERS WERE DAMAGED AND SOME FENCES WERE BLOWN OVER AND CARRIED DOWNWIND.

NORTH MERRITT ISLAND TORNADO BREVARD 11/0148 EF-1  
28.42 -80.68

A NWS STORM SURVEY CONFIRMED THAT A TORNADO FORMED ON NORTH MERRITT ISLAND WITHIN OR SOUTHEAST OF THE SAVANNAHS SUBDIVISION, PRODUCING STRONG EF-1 DAMAGE (WINDS ESTIMATED 100-110 MPH) TO NUMEROUS HOMES ON SAVANNAHS TRAIL. OVER A DOZEN HOMES SUSTAINED SIGNIFICANT SHINGLE DAMAGE AND APPROXIMATELY SIX POOL SCREEN ENCLOSURES WERE DESTROYED. NUMEROUS TREES WERE SNAPPED. THE TORNADO CONTINUED NORTHWEST AND CROSSED EAST HALL ROAD AND LEILANI LANE, PRODUCING TREE AND MINOR ROOF DAMAGE TO A FEW HOMES. THE TORNADO THEN TRAVELED THROUGH THE SOUTHERN PORTION OF THE ISLAND LAKES MOBILE HOME PARK AT EF-1 STRENGTH (ESTIMATED WINDS OF 95 TO 105 MPH) AND IMPACTED OVER 25 MOBILE HOMES. SEVERAL MOBILE HOMES WERE DESTROYED AND MANY OTHERS SUSTAINED MODERATE TO MAJOR DAMAGE (THE NEIGHBORHOOD WAS NEARLY COMPLETED EVACUATED FOR HURRICANE IRMA). THE TORNADO THEN WEAKENED, BUT TOPPLED THE STEEPLE AT THE ORSINO BAPTIST CHURCH, AFTER CROSSING NORTH COURTNEY BOULEVARD. TREE DAMAGE

AND MINOR ROOF DAMAGE OCCURRED ALONG THE REMAINDER OF THE PATH UNTIL THE INDIAN RIVER WAS REACHED.

G. STORM IMPACTS BY COUNTY...

COUNTY DESCRIPTION	DEATHS	INJURIES	EVACUATIONS
BREVARD PRELIMINARY REPORT: OVER 7,132 HOMES SUSTAINED DAMAGE, INCLUDING 400 WITH MAJOR DAMAGE AND 45 DESTROYED. INITIAL PROPERTY DAMAGE ESTIMATE OF \$30.0 MILLION. FLORIDA POWER AND LIGHT REPORTS 100% OF CUSTOMERS IN BREVARD COUNTY LOST POWER DURING THE HURRICANE. MODERATE TO LOCALLY SEVERE BEACH EROSION WAS OBSERVED.	0	0	3667
INDIAN RIVER PRELIMINARY REPORT OF 72 STRUCTURES WITH MINOR DAMAGE, AND 6 WITH MAJOR DAMAGE. TOTAL ESTIMATED DAMAGE COST OF \$1.5 MILLION.	0	0	MMMM
LAKE PRELIMINARY REPORT OF 110 COMMERCIAL BUILDINGS: 92 WERE AFFECTED, 16 SUSTAINED MINOR DAMAGE, AND 2 SUSTAINED MAJOR DAMAGE. TOTAL DAMAGE TO COMMERCIAL BUILDINGS IS APPROXIMATELY \$3.5 MILLION. PRELIMINARY REPORT OF 2,615 RESIDENTIAL BUILDINGS: 1,895 WERE AFFECTED, 632 SUSTAINED MINOR DAMAGE, 80 SUSTAINED MAJOR DAMAGE, 7 WERE DESTROYED. TOTAL DAMAGE TO RESIDENTIAL BUILDINGS IS APPROXIMATELY \$33 MILLION. OUT OF 160,707 CUSTOMERS IN MARTIN COUNTY, 123,467 OR 77% LOST POWER DURING THE HURRICANE.	0	0	4413
MARTIN PRELIMINARY REPORT: 180 AFFECTED STRUCTURES, 192 WITH MINOR DAMAGE, 8 WITH MAJOR DAMAGE, 1 DESTROYED. TOTAL ESTIMATED DAMAGE COST OF \$4.3 MILLION.	0	0	MMMM
OKEECHOBEE PRELIMINARY REPORT: 585 AFFECTED RESIDENTIAL STRUCTURES, 239 WITH MINOR DAMAGE, 99 WITH MAJOR DAMAGE, AND 8 DESTROYED. TOTAL ESTIMATED DAMAGE COST OF \$157 MILLION.	0	0	MMMM
ORANGE ONE DIRECT FATALITY; VEHICLE ACCIDENT DURING HURRICANE AND 5 INDIRECT FATALITIES (3 CARBON MONOXIDE AND 2 ELECTROCUTION).	1	0	MMMM
OSCEOLA PRELIMINARY REPORT OF RESIDENTIAL AND BUSINESS STRUCTURES: 183 WERE AFFECTED, 3,934 WITH MINOR DAMAGE, 95 WITH MAJOR DAMAGE, 23 DESTROYED. TOTAL ESTIMATED DAMAGE COST OF \$100 MILLION.	0	0	MMMM
ST. LUCIE TOTAL OF 150,000 HOMES/BUSINESSES LOST POWER. TOTAL ESTIMATED DAMAGE TO BUSINESS STRUCTURES IS APPROXIMATELY \$25 MILLION.	0	0	2365
SEMINOLE PRELIMINARY REPORT OF 7,125 RESIDENTIAL STRUCTURES: 4,939 WERE AFFECTED, 698 WITH MINOR DAMAGE, 162 WITH MAJOR DAMAGE, 24 WERE DESTROYED, AND 1,302 WERE INACCESSIBLE. TOTAL ESTIMATED DAMAGE TO RESIDENTIAL STRUCTURES IS APPROXIMATELY \$393 MILLION. PRELIMINARY REPORT OF 305 BUSINESS STRUCTURES: 191 WERE AFFECTED, 64 WITH MINOR DAMAGE, 18 WITH MAJOR DAMAGE, 1 WAS DESTROYED, AND 31 WERE INACCESSIBLE. TOTAL ESTIMATED DAMAGE TO BUSINESS STRUCTURES IS APPROXIMATELY \$150.2 MILLION.	0	0	MMMM
VOLUSIA PRELIMINARY REPORT OF 4,811 RESIDENTIAL AND BUSINESS STRUCTURES: 3,457 WERE AFFECTED, 1,003 WITH MINOR DAMAGE, 329 WITH MAJOR DAMAGE, 21 DESTROYED. TOTAL ESTIMATED DAMAGE COST OF \$332 MILLION. MODERATE TO LOCALLY SEVERE BEACH EROSION WAS OBSERVED. ONE INDIRECT FATALITY (CARBON MONOXIDE).	0	0	MMMM

\$\$

LEGEND:

I-INCOMPLETE DATA

E-ESTIMATED

9999 OR MMMM - DENOTES MISSING DATA.

SPRATT/ULRICH/BLOTTMAN/SMITH/COMBS/RODRIGUEZ/

# Appendix E – Post-Tropical Cyclone Report from the Tampa Bay NWS WFO

701  
 ACUS72 KTBW 141642  
 PSHTBW

POST TROPICAL CYCLONE REPORT...HURRICANE IRMA  
 NATIONAL WEATHER SERVICE TAMPA BAY AREA - RUSKIN FL  
 1241 PM EDT THU SEP 14 2017

NOTE: THE DATA SHOWN HERE ARE PRELIMINARY...AND SUBJECT TO UPDATES  
 AND CORRECTIONS AS APPROPRIATE.

THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS  
 WERE IN EFFECT...OR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH IRMA  
 OR ITS REMNANTS WAS AFFECTING THE AREA.

COUNTIES INCLUDED...INLAND LEVY...INLAND CITRUS...SUMTER...  
 INLAND HERNANDO...INLAND PASCO...INLAND HILLSBOROUGH...PINELLAS...  
 POLK...INLAND MANATEE...HARDEE...HIGHLANDS...INLAND SARASOTA...  
 DE SOTO...INLAND CHARLOTTE...INLAND LEE...COASTAL LEVY...  
 COASTAL HERNANDO...COASTAL PASCO...COASTAL HILLSBOROUGH...  
 COASTAL MANATEE...COASTAL SARASOTA...COASTAL CHARLOTTE...  
 COASTAL LEE

## A. LOWEST SEA LEVEL PRESSURE/MAXIMUM SUSTAINED WINDS AND PEAK GUSTS

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 METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUTES

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
KBKV-BROOKSVILLE FL		973.1	11/0553	020/033	11/0335	030/056	11/0333
28.47	-82.45						
KTPA-TAMPA INTERNATIONAL AIRPORT FL		971.8	11/0553	350/040	11/0309	330/058	11/0343
27.97	-82.53						
KPIE-SAINT PETERSBURG FL		975.0	11/0553	330/043	11/0553	360/064	11/0310
27.91	-82.69						
KSPG-ALBERT WHITTED FL		973.8	11/0453	030/047	11/0053	030/060	11/0110
27.77	-82.63						
KSRQ-SARASOTA FL		975.5	11/0353	350/042	11/0120	340/061	11/0226
27.40	-82.55						
KMCF-MACDILL AIRFORCE BASE FL		980.3	11/0240	030/032	11/0109	030/045	11/0119
27.86	-82.52						
KGIF-WINTER HAVEN FL		971.5	11/0453	120/044	11/0445	110/066	11/0445
28.05	-81.75						
KPGD-PUNTA GORDA FL		962.7	11/0053	050/044	10/2153	030/064	10/2348
26.92	-81.99						
KFMY-FORT MYERS PAGE FIELD FL		952.4	10/2253	040/050	10/2216	020/073	10/2216
26.58	-81.97						
KRSW-REGIONAL SOUTHWEST FL		958.1	10/2353	060/054	10/2153	070/077	10/2150
26.54	-81.76						

KRSW-REGIONAL SOUTHWEST FL  
 26.54 -81.76 958.1 10/2353 060/054 10/2153 070/077 10/2150

REMARKS:

NON-METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
KVVG-THE VILLAGES FL				050/032	110205	050/047	110205
28.90	-82.00						
KLAL-LAKELAND L. FIELD FL				080/044	110415	080/058	110415
27.99	-82.01						
KLEE-LEESBURG FL				130/037	110753	130/060	110753
28.82	-81.81						
KVDF-TAMPA EXECUTIVE				350/027	110435	350/048	110455
28.01	-82.34						
KINF-INVERNESS AIRPORT				020/022	101755	020/029	101755
28.81	-82.32						
KPCM-PLANT CITY				040/036	110355	040/046	110355
28.00	-82.16						
KBOW-BARTOW				050/037	110135	070/056	110255
27.94	-81.78						

REMARKS:

B. MARINE OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
CDRF1-CEDAR KEY-CMAN				258/031	11/1536	006/047	11/0730
29.14	-83.03	977.2	11/0936				
OLD PORT TAMPA-PORTS				348/050		11/0254	348/060
27.86	-82.55	972.5	11/0418				
SAINT PETERSBURG-PORTS				010/033	10/2342	353/052	11/0248
27.77	-82.63	975.1	11/0506				

REMARKS:

C. STORM TOTAL RAINFALL FROM 0000 UTC JUL 31 UNTIL 0000 UTC AUG 01

CITY/TOWN	COUNTY	ID	RAINFALL
LAT LON			(IN)
DEG DECIMAL			
-----			
WASTEPLANT	LEE	WTEP	11.59
26.63	-81.76		
ROMP 89 CUMPRESCO	SUMTER	1834	11.34
28.36	-82.04		

ARCADIA 7.1 WSW 27.18 -81.96	DESOTO	FL-DS-1	11.34
AUBURNDALE 3.0 SSW 28.03 -81.82	POLK	FL-PK-01	11.00
WEBSTER CITY 28.61 -82.05	SUMTER	9074	10.60
FORT MYERS - PAGE FIELD 26.59 -81.86	LEE	PAGEFIEL	10.60
THE VILLAGES 2.8 ESE 28.90 -81.97	SUMTER	FL-ST-26	10.59
ROMP 30 ZOLFO SPRINGS 27.46 -81.80	HARDEE	2794	10.58
SEBRING 4.7 WNW 27.52 -81.53	HIGHLANDS	FL-HL-13	10.54
WITHLACOCHEE RIVER AT T 28.48 -82.18	HERNANDO	6082	10.31
HERNANDO 1.6 N 28.93 -82.37	CITRUS	FL-CT-11	10.28
ROMP 116 (TSALA APOPKA C 28.96 -82.34	CITRUS	6734	10.19
POINCIANA PLACE 2.5 SSW 28.12 -81.50	POLK	FL-PK-53	10.14
ROMP 45 FORT MEADE 27.76 -81.79	POLK	1354	10.11
LEHIGH ACRES 26.61 -81.65	LEE	LEHI	10.07
TEN MILE CANAL NR DANIEL 26.55 -81.86	LEE	10MILE	10.03
PANA VISTA (LK PANASOFFK 28.81 -82.14	SUMTER	8974	9.98
BONITA SPRINGS UTILITIES 26.34 -81.75	LEE	BSUTIL	9.92
BABSON PARK 0.9 NW 27.84 -81.54	POLK	FL-PK-58	9.85
LAKE WALES 0.7 SE 27.89 -81.58	POLK	FL-PK-59	9.84
ARCADIA 27.23 -81.84	DESOTO	490	9.83
WHIDDEN PROPERTIES 26.95 -81.57	CHARLOTTE	WHID	9.76
SOUTHWEST INTERNATIONAL 26.54 -81.76	LEE	RSW	9.70
N. RESV 26.71 -81.84	LEE	NRESV	9.68
ROMP 74X DAVENPORT 28.16 -81.57	POLK	8094	9.64
ROMP 88 ROCK RIDGE	POLK	1874	9.62

28.31	-81.91				
ROMP 87 GREEN SWAMP (NW	POLK	1254	9.61		
28.22	-82.03				
ROMP 12 PRAIRIE CREEK (S	DESOTO	2834	9.51		
27.04	-81.74				
NORTH KISSIMMEE RIVR	POLK	KREF	9.48		
27.75	-81.18				
ROMP 44 WARNER SOUTHERN	POLK	8054	9.46		
27.82	-81.60				
AVON PARK 0.6 NW	HIGHLANDS	FL-HL-10	9.42		
27.60	-81.51				
LP-6 COLEMAN	SUMTER	2774	9.26		
28.81	-82.09				
INDIAN LAKES FIRE T	POLK	INDIANL	9.21		
27.79	-81.33				
LAKES REGIONAL PARK	LEE	LAKES	9.20		
26.53	-81.89				
THE VILLAGES 2.7 NNW	SUMTER	FL-ST-13	9.18		
28.90	-81.97				
ROMP 28 JOSEPHINE CREEK	HIGHLANDS	2634	9.18		
27.37	-81.44				
SEBRING	HIGHLANDS	470	9.03		
27.42	-81.40				
ROMP 13 TIPPEN BAY (SE D	DESOTO	2614	8.96		
27.07	-81.62				
BOWLING GREEN	HARDEE	7114	8.94		
27.64	-81.84				
ROMP 17 HORSE CREEK	DESOTO	1554	8.94		
27.17	-81.98				
SADDLE CREEK (N OF BARTO	POLK	1774	8.90		
27.94	-81.85				
ROMP 5 CECIL WEBB	CHARLOTTE	2754	8.86		
26.95	-81.81				
LAKE HENRY	POLK	1814	8.84		
28.08	-81.66				
OLGA	LEE	OLGA	8.81		
26.72	-81.68				
ROMP 15 LONG ISL MARSH (	DESOTO	7934	8.80		
27.21	-81.66				
LOVERS KEY	LEE	LOVERSKE	8.78		
26.39	-81.87				
ROMP 26 BROWNSVILLE SCHO	DESOTO	4334	8.77		
27.30	-81.82				
JOSHUA	DESOTO	241	8.72		
27.26	-81.61				
LAKE HAMILTON	POLK	1754	8.68		
28.04	-81.64				



DADE CITY 28.35 -82.20	PASCO	311	8.67
ROMP 90 DADE CITY 28.36 -82.14	PASCO	6174	8.67
ROMP 76 OLD POLK CITY 28.18 -81.83	POLK	8114	8.66
ROMP 14 HICORIA (NR ARCH 27.15 -81.35	HIGHLANDS	7554	8.65
LAKE GIBSON 2 28.10 -81.95	POLK	2434	8.59
WILDWOOD II 28.86 -82.03	SUMTER	7034	8.57
FLORAL CITY POOL 28.75 -82.28	CITRUS	2014	8.52
ROMP 112 RUTLAND 28.88 -82.23	SUMTER	8434	8.48
COLEY (NR FROSTPROOF) 27.74 -81.53	POLK	6070	8.45
PEACE RIVER (SW DESOTO C 27.09 -82.01	DESOTO	7394	8.43
LAKE LOWERY 28.13 -81.69	POLK	6184	8.41
LECANTO 28.83 -82.50	CITRUS	275	8.41
VENUS 27.08 -81.34	HIGHLANDS	VENUSR	8.40
ROMP 25 LILY (SW HARDEE 27.37 -82.01	HARDEE	7954	8.40
TICK ISLAND-KISS RVR 27.69 -81.19	POLK	TICK	8.38
ROMP 16.5 FORT OGDEN 27.06 -81.88	DESOTO	5094	8.38
AVON PARK BOMB RANGE 27.63 -81.26	HIGHLANDS	AVONPK	8.23
INVERNESS POOL 28.85 -82.32	CITRUS	2034	8.20
ROMP 43XX AVON PARK (ALP 27.60 -81.48	HIGHLANDS	7174	8.19
HERNANDO POOL 28.90 -82.37	CITRUS	2054	8.13
ROMP 16 JOSHUA CREEK 27.19 -81.77	DESOTO	1574	8.04
ROMP 9 NORTH PORT 27.08 -82.15	SARASOTA	7834	8.03
JOHNSON POND (NE CITRUS 29.50 -82.38	CITRUS	2294	7.98
ROMP TR 1-2 TROPICAL GUL 26.84 -81.98	CHARLOTTE	7754	7.98

CREEK RANCH 28.04 -81.46	POLK	CREEKR	7.93
CHIEFLAND 8.5 ENE 29.50 -82.72	LEVY	FL-LV-9	7.92
SEBRING 27.46 -81.35	HIGHLANDS	SEBRNG	7.92
ROMP 28X LAKE PLACID 27.27 -81.34	HIGHLANDS	1494	7.82
LORIDA-MCARTHUR PROP 27.44 -81.21	HIGHLANDS	MCARTH	7.79
ROMP 134 WILLISTON 29.44 -82.46	LEVY	1114	7.77
LESLIE HEIFNER (NR FLYIN 28.75 -82.23	CITRUS	6774	7.72
NORTH KISSIMMEE RIVR 27.66 -81.13	POLK	S65AMW	7.69
CHINSEGUT HILL 28.62 -82.37	HERNANDO	9174	7.65
ST PETE 42 (HWY 54 NR LA 28.18 -82.52	PASCO	3014	7.58
MCINTOSH (ALONG HWY 39 N 28.07 -82.14	HILLSBOROUGH	5074	7.51
CYPRESS CREEK TMR-5 28.26 -82.40	PASCO	2734	7.48
NORTH PORT 27.14 -82.34	SARASOTA	480	7.44
ROMP 73 WINTER HAVEN 28.02 -81.73	POLK	8034	7.43
ROMP TR 21-2 OZELLO 28.85 -82.60	CITRUS	1174	7.43
GATEWAY 26.57 -81.74	LEE	GATEWAY	7.38
WEEKI WACHEE 7.1 NNE 28.61 -82.54	HERNANDO	FL-HN-24	7.36
ROMP 105 HORSE LAKE (BRO 28.56 -82.40	HERNANDO	8454	7.33
ROMP TR 3-1 POINT LONESO 26.94 -82.22	CHARLOTTE	1594	7.33
BLOOMINGDALE 1.3 ESE 27.87 -82.24	HILLSBOROUGH	FL-HB-14	7.32
ROMP 131 (WILLISTON HIGH 29.33 -82.56	LEVY	4434	7.26
ROMP 32 MYAKKA HEAD 27.47 -82.06	MANATEE	1414	7.14
DV-2 DOVER 27.97 -82.15	HILLSBOROUGH	7714	7.12
ALVA	LEE	ALVA	7.05

26.71	-81.61			
ROMP 18 MURDOCK (ERN SAR		SARASOTA	8514	7.00
27.19	-82.13			
DV-1 DOVER		HILLSBOROUGH	1294	6.95
27.99	-82.21			
ROMP 35 (NW DESOTO CO AL		DESOTO	3394	6.95
27.29	-82.04			
TAMPA SVC OFFICE (NR TAM		HILLSBOROUGH	9274	6.87
28.02	-82.35			
RIVERVIEW 4.8 SSW		HILLSBOROUGH	FL-HB-98	6.82
27.80	-82.34			
LAKE ISTOKPOGA		HIGHLANDS	S68	6.82
27.33	-81.25			
BRONSON		LEVY	230	6.81
29.40	-82.59			
ROMP TR 5-3 KNIGHTS TRAI		SARASOTA	8574	6.79
27.16	-82.40			
ROMP 11 SHELL CREEK		CHARLOTTE	1614	6.79
26.98	-81.94			
LAKE HATCHINEHA		POLK	WRWX	6.78
28.05	-81.40			
YELLOW FEVER CREEK		LEE	YELLOWFE	6.78
26.68	-81.90			
RUSKIN 1.8 ESE		HILLSBOROUGH	FL-HB-44	6.78
27.71	-82.40			
ROMP TR 4-1 CASPERSEN (S		SARASOTA	8634	6.71
27.06	-82.44			
STARKEY (NW JAY B. STARK		PASCO	3154	6.69
28.25	-82.65			
ROMP 23 MYAKKA CITY		MANATEE	1474	6.64
27.31	-82.18			
ROMP 33 WATERBURY (EAST		MANATEE	7694	6.62
27.46	-82.26			
BROOKSVILLE 1.2 E		HERNANDO	FL-HN-17	6.59
28.56	-82.37			
ROMP 61 LAKE MEDARD		HILLSBOROUGH	1854	6.57
27.91	-82.16			
NORTH PORT 2.6 E		SARASOTA	FL-SS-34	6.55
27.05	-82.15			
VALRICO 1.1 SE		HILLSBOROUGH	FL-HB-3	6.52
27.93	-82.23			
S-161 (ALONG HARNEY RD)		HILLSBOROUGH	6614	6.52
28.02	-82.37			
WOLFE (NR JUMPING GULLY		PASCO	7254	6.49
28.38	-82.50			
ROMP TR 3-3 LEMON BAY		CHARLOTTE	7594	6.49
26.93	-82.33			

ROMP CB-1NW KUKA (NR MAS 28.43 -82.48	PASCO	7274	6.47
SWFWMD HEADQUARTERS 28.47 -82.44	HERNANDO	7094	6.46
ROMP 39 (NR LITTLE MANAT 27.59 -82.25	MANATEE	2594	6.37
LAKE ARBUCKLE 27.66 -81.37	POLK	ARBCKL_P	6.36
ROMP 60 MULBERRY 27.89 -81.98	POLK	1314	6.36
ROMP 31 ONA 27.45 -81.92	HARDEE	1434	6.34
BIRD CREEK (WSW OF YANKE 29.01 -82.75	LEVY	4074	6.33
VALRICO 2.2 SE 27.91 -82.23	HILLSBOROUGH	FL-HB-4	6.31
ENGLEWOOD 3.7 NNW 27.00 -82.39	SARASOTA	FL-SS-44	6.30
ROMP 107 RINGGOLD (NR SK 28.66 -82.46	HERNANDO	1214	6.30
ISLAND FORD LAKE 28.15 -82.60	HILLSBOROUGH	1634	6.24
ROMP 22 UTOPIA (NR UTOPI 27.31 -82.34	SARASOTA	7474	6.21
ROMP 123 STARLING (SE OF 27.68 -82.25	HILLSBOROUGH	1374	6.20
HANNA LAKE 28.14 -82.45	HILLSBOROUGH	7534	6.07
ROMP 62 CRISTINA - RIVER 27.86 -82.31	HILLSBOROUGH	8414	6.06
GREATER NORTHDAL 0.4 EN 28.11 -82.51	HILLSBOROUGH	FL-HB-48	5.98
RIVERVIEW 0.9 ENE 27.87 -82.30	HILLSBOROUGH	FL-HB-11	5.95
CHASSAHOWITZKA 28.72 -82.55	CITRUS	6114	5.94
S KISSIMMEE RIVER 27.22 -80.97	HIGHLANDS	S84	5.91
TAMPA 6.5 NNE 28.03 -82.41	HILLSBOROUGH	FL-HB-29	5.88
ALICO RD NR LEE CO UTILI 26.46 -81.70	LEE	CORKPL	5.80
ROMP TR 13-3 RACE TRACK 28.07 -82.64	HILLSBOROUGH	4274	5.79
CRESCENT LAKE 28.15 -82.60	HILLSBOROUGH	1674	5.76
ROMP 20 OSPREY 27.19 -82.48	SARASOTA	7414	5.74

LAKE THONOTOSASSA AT FLI 28.07 -82.27	HILLSBOROUGH	6814	5.73
ELDRIDGE-WILDE 2N (NE PI 28.18 -82.65	PINELLAS	3094	5.61
ARCHOLD BIO STN 27.18 -81.35	HIGHLANDS	ACHF1	5.61
NORTH PORT 1.6 ENE 27.06 -82.17	SARASOTA	FL-SS-14	5.60
HILLSBOROUGH RIVER AT SU 28.02 -82.45	HILLSBOROUGH	6140	5.55
ROMP 19X MACARTHUR (NR M 27.17 -82.25	SARASOTA	1534	5.53
BRADEN RIVER 27.42 -82.44	MANATEE	2894	5.50
APOLLO BEACH 3.0 ENE 27.78 -82.36	HILLSBOROUGH	FL-HB-46	5.47
S-160 (NR ADAMO AND 78TH 27.96 -82.37	HILLSBOROUGH	6574	5.45
CLEARWATER 2.2 S 27.95 -82.76	PINELLAS	FL-PN-16	5.44
ROMP TR 6-1 SIESTA KEY 27.27 -82.55	SARASOTA	7974	5.38
ROMP TR 9-1 SIMMONS PARK 27.74 -82.46	HILLSBOROUGH	1334	5.37
ROMP TR 5-1 LAUREL PARK 27.14 -82.45	SARASOTA	1514	5.36
ENGLE PARK (NR HUDSON) 28.39 -82.63	PASCO	3134	5.35
INDIAN PRAIRIE 27.27 -81.20	HIGHLANDS	S82	5.33
FLINT PEN STRAND 26.43 -81.72	LEE	FPWX	5.30
BAY LAKE (NR CARROLLWOOD 28.07 -82.50	HILLSBOROUGH	1654	5.30
NEAR TUCKERS CORNER 26.85 -81.75	CHARLOTTE	CHARLT_P	5.28
PALM HARBOR 1.0 S 28.07 -82.77	PINELLAS	FL-PN-71	5.26
CITRUS PARK 1.3 ENE 28.08 -82.55	HILLSBOROUGH	FL-HB-5	5.22
WHITE TROUT LAKE - CARRO 28.04 -82.50	HILLSBOROUGH	1934	5.22
SARASOTA OFFICE (NR I-75 27.34 -82.43	SARASOTA	3054	5.19
ROMP 8 WARM MINERAL SPRI 27.08 -82.25	SARASOTA	9234	5.16
FROG CREEK (NR I-275 AND	MANATEE	2874	5.14

27.58	-82.51			
CYPRESS STRAND		MANATEE	2854	5.12
27.51	-82.48			
INGLIS DAM		LEVY	6154	5.10
29.01	-82.62			
LUTZ 2.0 E		HILLSBOROUGH	FL-HB-37	5.07
28.14	-82.43			
ROMP TR 8-1 RUBONIA		MANATEE	7774	5.06
27.58	-82.55			
TARPON SINK (LAKE TARPON		PINELLAS	2114	5.04
28.13	-82.74			
INDIAN PRAIRIE		HIGHLANDS	S83	5.01
27.27	-81.18			
S-162 (NR HWY 301 AND DR		HILLSBOROUGH	6654	4.97
27.99	-82.35			
FT MYERS WASTEWATER		LEE	FTMYERSP	4.91
26.49	-81.93			
S-163 (NR I-75 AND FLETC		HILLSBOROUGH	1714	4.86
28.07	-82.35			
NORTH PORT 4.7 NNE		SARASOTA	FL-SS-15	4.84
27.11	-82.17			
ST. PETERSBURG 4.5 NW		PINELLAS	FL-PN-60	4.75
27.80	-82.70			
BAY PINES 0.5 NW		PINELLAS	FL-PN-76	4.71
27.82	-82.78			
ROMP 58 WILSON ELEM (NR		POLK	7874	4.65
27.92	-81.59			
GAMBLE CREEK (NR MULHOLL		MANATEE	8694	4.63
27.53	-82.40			
ROMP TR 7-2 ONECO		MANATEE	8614	4.63
27.44	-82.55			
ROMP 40 FOUR CORNERS		POLK	1394	4.54
27.65	-82.05			
GOVERNMENT HAMMOCK (NR E		MANATEE	8754	4.54
27.53	-82.50			
ROMP TR 14-1 SAFETY HARB		PINELLAS	1274	4.52
28.00	-82.69			
LUTZ 0.6 WSW		HILLSBOROUGH	FL-HB-11	4.51
28.13	-82.47			
FAIRWAYS		LEE	FAIRWAYS	4.49
26.74	-81.94			
SEMINOLE 3.3 WNW		PINELLAS	FL-PN-77	4.40
27.86	-82.83			
ROMP TR SA-1 (PIONEER PA		SARASOTA	8994	4.29
27.35	-82.55			
APOLLO BEACH 2.7 ENE		HILLSBOROUGH	FL-HB-13	4.29
27.78	-82.36			

ROMP TR 7-1 BAYSHORE GAR 27.42 -82.58	MANATEE	1454	4.27
PEARCE DRAIN 27.43 -82.52	MANATEE	8734	4.21
DOVER 28.02 -82.23	HILLSBOROUGH	360	4.20
S-155 (HILLSBOROUGH RVR A 28.09 -82.35	HILLSBOROUGH	6694	4.08
PALMA SOLA DRAIN 27.47 -82.64	MANATEE	8674	3.94
SUMTER 13 (NR RUTLAND) 28.86 -82.20	SUMTER	8934	3.84
ST. PETERSBURG 2.4 NW 27.78 -82.67	PINELLAS	FL-PN-33	3.78
ROMP TR 9-2 APOLLO BEACH 27.77 -82.39	HILLSBOROUGH	7514	3.78
LAKE KISSIMMEE 27.97 -81.42	POLK	SNIVLY	3.69
S-551 (LAKE TARPON CANAL 28.05 -82.71	PINELLAS	6494	3.66
SAWGRASS LAKE 2 27.84 -82.67	PINELLAS	7614	3.57
WARES CREEK 27.47 -82.57	MANATEE	8714	3.57
CHANNEL A (HWY 580 NR TO 28.01 -82.61	HILLSBOROUGH	6414	3.54
S-159 (NR HWY 301 NR TEM 28.04 -82.34	HILLSBOROUGH	6534	3.24

REMARKS: THIS PSH IS THE FIRST OF SEVERAL UPDATES TO COME.

D. INLAND FLOODING...

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 HILLSBOROUGH...SOCIAL MEDIA VIDEO OF SIGNIFICANT STREET FLOODING  
 WITH WATER ENTERING HOMES NEAR SAM ALLEN RD AND 39.

POLK...PUBLIC REPORTS VIA SOCIAL MEDIA 19 INCHES OF WATER IN HOME  
 OFF YATES ROAD IN LAKELAND.

HILLSBOROUGH...BROADCAST MEDIA IS REPORTING STREET FLOODING ON  
 MULRENNAN RD. IN VALRICO.

POLK...3 ROADS WASHED OUT. 1 CULVERT WASHED OUT BUT ROAD BED STILL  
 PRESENT AND ANOTHER ROAD PARTIALLY WASHED OUT, BOTH SEVERAL MILES  
 WEST OF FROST PROOF.

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 E. MAXIMUM STORM SURGE AND STORM TIDE...  
 OFFICIAL TIDE GAUGES NOTED WITH LEADING G  
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COUNTY	CITY/TOWN OR LOCATION	SURGE (FT)	TIDE (FT)	DATE/ TIME	BEACH EROSION
LEE	G FORT MYERS	3.88	3.55	11/1900	UNKNOWN

MANATEE	G PORT MANATEE	2.17	1.87	11/1518	UNKNOWN
PINELLAS	G SAINT PETERSBUR	2.17	1.96	11/1636	UNKNOWN
PINELLAS	G CLEARWATER BEAC	1.85	1.67	12/0254	UNKNOWN
LEVY	G CEDAR KEY	2.59	2.71	11/1730	UNKNOWN
HILLSBOROUGH	G MCKAY BAY	3.07	2.75	11/1724	UNKNOWN

REMARKS: SURGE INFORMATION UPDATED WITH NATIONAL OCEAN SERVICE  
VALUES AND SURGE WAS LATER THAN PREVIOUS STATEMENT ISSUANCE.

F. TORNADOES...

(DIST)CITY/TOWN LAT LON (DEG DECIMAL DESCRIPTION	COUNTY	DATE/ TIME (UTC)	EF SCALE (IF KNOWN)
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N WAUCHULA 27.55 -81.81	HARDEE	10/1300	I
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REPORT OF ROOF DAMAGE TO BUSINESS IN WAUCHULA

4 WSW POLK CITY 28.15 -81.89	POLK	10/1615	EF2
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7 WOODEN HIGH POWER TRANSMISSION POLES SNAPPED.

G. STORM IMPACTS BY COUNTY...

COUNTY DESCRIPTION	DEATHS	INJURIES	EVACUATIONS
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Legend:  
I-Incomplete Data  
E-Estimated

NOAH



# Appendix F – Post-Tropical Cyclone Report from the Miami NWS WFO

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ACUS72 KMFL 090932 AAF  
PSHMFL

POST TROPICAL CYCLONE REPORT...HURRICANE IRMA...UPDATED  
NATIONAL WEATHER SERVICE MIAMI FLORIDA  
532 AM EDT MON OCT 9 2017

NOTE: THE DATA SHOWN HERE ARE PRELIMINARY...AND SUBJECT TO UPDATES  
AND CORRECTIONS AS APPROPRIATE.

THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS  
WERE IN EFFECT...OR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH IRMA

COUNTIES INCLUDED...MIAMI DADE...BROWARD...PALM BEACH...GLADES...  
HENDRY...COLLIER...MAINLAND MONROE

SEP 28...UPDATED FOR...CORRECTIONS TO METAR/ASOS OBSERVATIONS,  
NUMEROUS ADDITIONS TO NON-METAR OBSERVATIONS AND MARINE  
OBSERVATIONS, NUMEROUS ADDITIONS TO STORM TIDE/SURGE SECTION BASED  
ON NWS SURVEYS, TORNADO SECTION UPDATED TO ADD TORNADO IN COLLIER  
COUNTY, AND ADDED STORM EFFECTS FOR EACH COUNTY BASED ON LATEST  
INFORMATION.

SEP 28...UPDATED FOR...ADDITIONS/CORRECTIONS TO STORM RAINFALL FOR  
PERIOD FROM 1200 UTC SEPTEMBER 9TH TO 1200 UTC SEPTEMBER 11TH.

OCT 03...UPDATED FOR...ADDITIONAL NON-METAR OBSERVATIONS FROM TEXAS  
TECH UNIVERSITY RESEARCH TEAM STICKNET, AND USGS TIDE GAUGE DATA  
FROM NAPLES BAY AT U.S. 41.

OCT 09...UPDATED FOR...ADDITIONAL STORM SURGE/TIDE INFORMATION FROM  
USGS RAPID DEPLOYMENT GAUGES AND UPDATED FATALITY NUMBERS.

SEP 28...CORRECTED FOR...POMPANO BEACH AIRPARK (KPMP) METAR MAX  
SUSTAINED WIND 60 KNOTS WITH MAX GUST 76 KNOTS

SEP 29...CORRECTED FOR...TIME FRAME OF RAINFALL OBSERVATIONS FROM  
SEP 9 TO SEP 11.

## A. LOWEST SEA LEVEL PRESSURE/MAXIMUM SUSTAINED WINDS AND PEAK GUSTS

METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUTES

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT	LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG	DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)

KOPF-OPA LOCKA AIRPORT

25.91	-80.28	988.8	10/2112	140/056	10/1903	110/074	10/1439
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KTMB-MIAMI EXECUTIVE/WEST KENDALL

25.65	-80.43	986.8	10/1718	110/048	10/1110	I 100/063	10/1110	I
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KMIA-MIAMI INTERNATIONAL

25.80	-80.29	988.8	10/2116	110/046	10/1303	I 100/063	10/1312	I
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KFLL-FT LAUDERDALE INTERNATIONAL

26.07	-80.15	989.0	10/2120	110/046	10/0153	I 110/061	09/2022	I
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KFXE-FT LAUDERDALE EXECUTIVE

26.20 -80.17 989.5 10/2202 110/053 10/1847 120/072 10/1818  
 KHWO-HOLLYWOOD NORTH PERRY AIRPORT  
 26.00 -80.24 993.3 10/1701 I 120/049 10/1651 I 110/068 10/1422 I  
 KAPF-NAPLES MUNICIPAL AIRPORT  
 26.15 -81.77 959.4 10/1932 I 060/053 10/1801 I 070/071 10/1800 I  
 KPBI-WEST PALM BEACH INTERNATIONAL  
 26.68 -80.09 990.2 10/2320 130/057 10/2101 120/079 10/2055  
 KPMP - POMPANO BEACH AIRPARK  
 26.24 -80.11 990.1 10/2205 I 140/060 10/2039 I 120/076 10/2046 I

REMARKS:

NON-METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT	LON	PRES	TIME	SUST	TIME	GUST	TIME
DEG	DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
CLWCH	- NEAR N PERRY ARPT						
26.04	-80.22			I 157/070	10/1950	999/095	10/9999 I
NPLMP-	1 E NAPLES						
26.15	-81.77			I 999/081	10/2000	068/123	10/2035
DRFCE	- DEERFIELD BEACH						
26.31	-80.15			I 158/061	10/2200	999/087	999/999 I
NPLCC	- COLLIER COUNTY EOC						
26.11	-81.69			I 113/071	10/2000	113/106	10/2004
MMMCH	- WEST MIAMI						
25.74	-80.30			I 113/059	10/1540	999/081	99/9999 I
MDFR4	- BAL HARBOUR						
25.90	-80.12			068/058	10/0900	999/069	10/1026 I
MDFR5	- SOUTH MIAMI HEIGHTS						
25.57	-80.37			I 113/049	10/1500	999/072	10/1413
PPFMS	- COCONUT GROVE						
25.74	-80.21			I 113/037	10/0600	999/066	10/9999 I
MFR11	- MIAMI						
25.77	-80.29			I 145/049	10/1830	999/063	10/9999 I
WFORT	- DORAL						
25.79	-80.34			I 090/041	10/1800	999/083	10/1837 I
MDFR1	- DORAL						
25.80	-80.35			I 113/046	10/2200	999/057	10/9999
MDFR8	- HOMESTEAD						
25.44	-80.46			I 999/040	10/1400 I	999/068	10/1256 I
MFRFC	- COCONUT GROVE						
25.73	-80.26			I 999/999		I 999/078	10/1810 I
MNTLA	- MIA SOUTH TERMINAL						
25.79	-80.27			I 999/999		I 999/067	I
				29/MM			
MDFR6	- KENDALL						
25.71	-80.33			I 999/999		I 999/070	10/1737 I
XURB	- DORAL						

25.85	-80.37	984.7	10/2111	107/043 15/05	10/1701	110/067	10/1646	
XFLM - MIRAMAR								
25.96	-80.30	982.0	10/2152	116/043 15/05	10/1827	114/073	10/1747	
LPIF1 - ROYAL PALM RANGER STATION								
25.39	-80.68			I 999/048 06/10	10/1623	I 999/079	10/1423	I
CHKF1 - CHEKIKA								
25.62	-80.58			999/049 06/10	10/1723	999/078	10/1623	
STDF1 - HOMESTEAD								
25.50	-80.50			I 125/045 10/15	10/1700	121/063	10/1645	
S331W - THE REDLAND								
25.61	-80.51			I 113/044 08/15	10/1700	095/061	10/1403	
MIA/ITWS								
25.80	-80.29			I 999/058 15/01	10/1646	I 999/086	10/1719	I
NWS MIAMI								
25.76	-80.38	989.5		I 999/999		I 999/070	10/1708	I
HLLYW - PEMBROKE PARK								
25.99	-80.16			I 999/047	10/2200	I 999/075		I
3AS3W - MICCOSUKEE VILLAGE								
25.85	-80.77			I 118/059 08/15	10/1715	115/075	10/1658	
AVE MARIA								
26.30	-81.43			I 124/057 08/15	10/2200	109/077	10/2125	
BELLW - BELLE GLADE								
26.65	-80.63			I 152/044 08/15	10/2245	124/062	10/1935	
CFSW - CLEWISTON								
26.73	-80.89			I 127/043 08/15	10/2300	134/060	10/2344	
FHCHSX - WEST PALM BEACH								
26.65	-80.07			141/038 08/15	10/2130	141/067	10/2128	
LXWS - LOXAHATCHEE NWR								
26.50	-80.22			999/039 08/15	10/2245	I 999/058	10/2020	I
ROTNWX - ROTENBERGER WMA								
26.33	-80.88			139/047 08/15	10/2130	133/065	10/2048	
S140W - BROWARD MICCOSUKEE RESERVATION								
26.17	-80.83			136/037 08/15	10/1945	121/056	10/1812	
S75WX - BRIGHTON								
27.19	-81.13			096/048 08/15	10/2345	115/068	11/0058	
S78W - ORTONA								
26.79	-81.30			149/044	11/0015	125/065	10/2327	

			08/15				
SGGEW - GOLDEN GATE ESTATES	26.14 -81.58	160/047	10/2130	150/084	10/2120		
			08/15				
MRRH - MIRAMAR HIGH SCHOOL	25.99 -80.28	999/038	10/2200	I 999/085	10/1444	I	
WSTNF - SOUTHWEST RANCHES	26.06 -80.39	999/047	10/1700	999/085			I
FTBCM - DAVIE	26.08 -80.23	999/037	10/1800	999/064			I
FRBCS - LAUDERHILL	26.12 -80.18	999/043	10/1300	999/070			I
FLTLS - OAKLAND PARK	26.17 -80.16	999/036	10/1300	999/062			I
XCVN - TAMARAC	26.19 -80.30 986.1 10/2123	106/043	10/1853	110/061	10/1858		
			10/05				
BEMA3 - BROWARD COUNTY EOC	26.12 -80.27	999/050	10/2100	999/067			I
FTDST - SUNRISE	26.16 -80.25	999/045	10/1700	999/071			I
SNRSC - SUNRISE	26.16 -80.29	999/042	10/2100	999/085			I
FTPCS - OAKLAND PARK	26.20 -80.13	999/043	10/2100	999/074			I
PMPNB - MARGATE	26.25 -80.19	999/046	10/1925	999/069			I
CRLCG - CORAL SPRINGS	26.26 -80.30	999/043	10/1900	999/077	10/1900		
DFBS1 - DEERFIELD BEACH	26.29 -80.12	999/051	10/2000	999/097			I
			15/MM				
PRKLN - PARKLAND	26.30 -80.27	999/042	10/2000	999/071			
PBRPN - PEMBROKE PINES	26.01 -80.27	999/053	10/1520	999/095	10/1440		
FDLF1 - DAVIE	26.09 -80.24	136/030	10/1800	I 136/057	10/1800		
			10/15				
NPLLV - URBAN ESTATES	26.27 -81.75	999/048	10/2100	999/097	10/2134		
RACF1 - RACCOON POINT	25.98 -80.90	999/999		999/062			
			06/10				
OASF1 - OASIS RANGER STATION	25.86 -81.03	999/039	10/1637	999/067	10/1737		
			06/10				
OCOF1 - OCHOPEE	25.90 -81.32	999/055	10/1903	999/083	10/2003		
			06/10				

RKIF1 - MILES CITY						
26.24 -81.30	999/031	10/2045	999/065	10/2045		
	06/10					
HMRF1 - HONEYMOON RAWS						
26.19 -81.07	999/024	10/2145	999/059	10/2145		
	06/10					
PSTF1 - PANTHER EAST RAWS						
26.16 -81.36	999/031	10/1711	999/065	10/2111		
PHWF1 - PANTHER WEST RAWS						
26.17 -81.48	999/021	10/2211	999/059	10/2211		
	06/10					
IMKF1 - IMMOKALEE						
26.46 -81.44	143/056	10/2300	133/072	10/2245		
	10/15					
MARCO ISLAND PD						
25.94 -81.71	999/999		999/113	10/1900		
MARCO ISLAND - SPOTTER REPORT						
25.92 -81.73 936.9	I 999/097		I 999/112			I
XWPB - WEST PALM BEACH						
26.65 -80.14 988.7 10/2318	119/033	10/2138	130/058	10/2108		
	10/05					
DLRYD - DELRAY BEACH						
26.44 -80.13	999/037	10/1900	999/069			
MRHMG - MOORE HAVEN						
26.83 -81.10	999/047	10/2300	999/068			
PALF1 - PALMDALE						
26.92 -81.40	143/036	11/0045	143/059	11/0045		
	10/15					
AIRGL - AIRGLADES AIRPORT CLEWISTON						
26.73 -81.05	152/059	11/0015	152/078	11/0015		
	10/15					
0102A - 9 E Miles City						
26.16 -81.19	148/045	10/1636	223/060	10/2029		
	02/01					
0103A - 4 E Orangetree						
26.29 -81.51	148/061	10/2151	146/077	10/2145		
	02/01					
0104A - Miami Beach						
25.76 -80.13	211/052	10/2239	210/064	10/2239		
	02/01					
0105A - 6 E Miccosukee Village						
25.76 -80.67	123/048	10/1703	I 114/066	10/1605		I
	02/01					
0106A - Hollywood Beach						
26.04 -80.11	146/050	10/1955	147/060	10/2003		
	02/01					
0108A - 10 ESE Ochopee						
25.86 -81.15	145/035	10/1947	128/053	10/1815		
	02/01					
0109A - Broward Miccosukee Reservation						
26.17 -80.85	112/051	10/1727	110/068	10/1727		
	02/01					

0111A - 2 NNW Royal Palm Hammock  
 26.04 -81.62 115/074 10/2008 113/099 10/2007  
 02/01

0112A - 9 ESE Golden Gate  
 26.15 -81.54 104/052 10/2052 112/077 10/2046  
 02/01

0214A - 5 SW Florida City  
 25.40 -80.56 113/066 10/1558 099/077 10/1345  
 02/01

0220A - Miles City  
 26.15 -81.34 113/055 10/2032 103/073 10/1944  
 02/01

REMARKS:

B. MARINE OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN  
 MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
-----							
FWYF1 - FOWEY ROCKS							
25.59	-80.10			I 127/073	10/1830	130/087	10/1828
				44/00			
VAKF1 - VIRGINIA KEY							
25.73	80.16	989.0	10/1918	110/046	10/1900	100/062	10/1754
				10/06			
NPSF1 - NAPLES PIER							
26.13	-81.81	939.7	10/2054	290/056	10/2200	290/072	10/2200
				06/06			
LKWF1 - LAKE WORTH PIER							
26.61	-80.03			I 130/055	10/2100	130/079	10/2100
				06/06			
XGVT - GOVERNMENT CUT							
25.75	-80.10	983.0	10/1907	143/065	10/1852	143/079	10/1852
				23/05			
XTKY - TURKEY POINT							
25.43	-80.35	977.4	10/1726	161/062	10/1746	140/081	10/1701
				19/05			
XMSP - MORNINGSIDE PARK MIAMI							
25.82	-80.18	987.5	10/1924	163/055	10/1854	144/073	10/1934
				10/05			
XKBS - BISCAYNE BAY LIGHT 20							
25.65	-80.19	987.2	10/1824	137/053	10/1824	137/075	10/1824
				06/05			
XDIN - DINNER KEY							
25.71	-80.21	990.3	10/1803	999/050	10/1828	999/071	10/1828
				05/05			
XDGE- DODGE ISLAND MIAMI							
25.76	-80.14	987.0	10/1917	144/048	10/1917	144/069	10/1917
				12/05			
XSOM - SOUTH MIAMI							
25.63	-80.30	986.4	10/1730	111/050	10/1300	I 110/071	10/1020
				10/05			

XCRN -CRANDON KEY BISCAYNE						
25.72	-80.15	990.8	10/2120	108/048	10/1555	108/065 10/1555 08/05
XNMI - NORTH MIAMI						
25.90	-80.16	986.0	10/1930	184/039	10/1930	173/060 10/1645 17/05
RSMAS - VIRGINIA KEY WEATHER STEM						
25.73	-80.16			I 999/999		I 999/088 10/1732
XPEG - PORT EVERGLADES						
26.08	-80.12	985.2	10/2145	137/061	10/2005	127/074 10/1835 41/05
XDAN - DANIA PIER						
26.05	-80.11			I 999/055	10/1839	I 999/070 10/1759 I 09/05
XPES - PORT EVERGLADES SOUTH						
26.06	-80.13	988.1	10/2137	129/040	10/1852	129/071 10/1822 10/05
XCAP - ISLES OF CAPRI						
26.03	-81.70	934.8	10/2012	089/062	10/1957	099/086 10/2002 15/05
L006 - LAKE OKEECHOBEE SOUTH						
26.82	-80.78			I 142/052	11/0030	147/062 11/0100 08/15
L005 - LAKE OKEECHOBEE WEST						
26.96	-80.94			I 147/055	11/0030	127/068 10/2307 08/15
L001 - LAKE OKEECHOBEE NORTH						
27.14	-80.79			I 134/052	11/0115	143/065 11/0151 08/15
LZ40 - LAKE OKEECHOBEE CENTER						
26.90	-80.79			I 158/052	11/0030	156/067 11/0014 08/15
XBOC - BOCA RATON						
26.37	-80.08	986.2	10/2058	127/044	10/2058	128/069 10/2043 21/05
XBOY - BOYNTON BEACH						
26.54	-80.05	989.4	10/2037	093/044	10/2017	102/068 10/2127 10/05
XMGN -MANGONIA PARK						
26.75	-80.07	987.2	10/2254	123/038	10/2154	123/065 10/2154 23/05
XJUP - JUNO BEACH PIER						
26.89	-80.06	987.9	10/2354	163/061	10/2354	163/074 10/2354 06/05
XOAK - JUPITER						
26.91	-80.07	987.5	10/2126	135/042	10/2301	124/067 10/2126 15/05

REMARKS: WITH THE EXCEPTION OF LAKE OKEECHOBEE SITES AND FOWEY  
ROCKS, OBSERVATIONS SITES ARE COASTAL WITHIN 1 MILE OF THE WATER.

C. STORM TOTAL RAINFALL FROM 1200 UTC SEP 09 UNTIL 1200 UTC SEP 11

CITY/TOWN LAT LON DEG DECIMAL	COUNTY	ID	RAINFALL (IN)
Chekika 25.63 -80.58	Miami-Dade	CHKF1	13.63
7 E Naples 26.17 -81.68	Collier	NPLF1	11.46
4 W Royal Palm Ranger 25.39 -80.68	Miami-Dade	LPIF1	11.31
7 W Plantation 26.13 -80.37	Broward	WSTF1	10.81
1 NW Miles City 26.17 -81.36	Collier	PSTF1	10.73
9 SW Big Cypress Seminol 26.19 -81.07	Collier	HMRF1	10.55
5 SE Golden Gate Estates 26.15 -81.58	Collier	PHWF1	10.41
13 E Golden Gate 26.17 -81.48	Collier	SGGEW	10.36
2 WNW LaBelle 26.76 -81.48	Hendry	FL-HY-3	10.31
7 NE Miles City 26.25 -81.30	Collier	RKIF1	10.23
1 S Wilton Manors 26.14 -80.13	Broward	D0271	9.94
1 WSW Miramar 25.98 -80.37	Broward	FL-BW-10	9.92
4 W Fort Lauderdale 26.14 -80.20	Broward	FTDF1	9.90
Oasis Ranger Station 25.86 -81.03	Collier	OASF1	9.90
3 SW Coral Springs 26.23 -80.30	Broward	CSGF1	9.72
1 W Ochopee 25.90 -81.32	Collier	OCOF1	9.61
Fort Lauderdale Executiv 26.20 -80.17	Broward	KFXE	9.57
12 W Boca Raton 26.36 -80.30	Palm Beach	WBCF1	9.24
2 WNW Aberdeen 26.58 -80.20	Palm Beach	FL-PB-2	8.96
2 SSE WESTON 26.13 -80.39	BROWARD	FL-BW-99	8.80
Aberdeen 26.56 -80.17	Palm Beach	FL-PB-77	8.68
Big Cypress Reservation 26.30 -80.98	Hendry	TS909	8.23



Biscayne Park 25.88 -80.18	Miami-Dade	FL-MD-33	8.19
2 SE Plantation 26.09 -80.23	Broward	PLAF1	8.10
Loxahatchee NWR 26.49 -80.43	Palm Beach	LOHF1	8.08
Opa-Locka Airport 25.91 -80.28	Miami-Dade	KOPF	8.03
2 NW Carol City 25.97 -80.30	Broward	LLUF1	8.00
Sunrise 26.16 -80.30	Broward	SNRF1	7.95
Lake Harbor 26.70 -80.81	Palm Beach	SLOF1	7.75
3 NNW Brighton Seminole 27.12 -81.08	Glades	TS896	7.74
25 ENE Ochopee 25.98 -80.90	Collier	RACF1	7.72
1 NE Moore Haven 26.84 -81.09	Glades	MHVF1	7.70
1 E Lauderdale Lakes 26.17 -80.18	Broward	LDLF1	7.68
1 WNW Boynton Beach 26.54 -80.10	Palm Beach	FL-PB-70	7.56
2 NNW Boca Raton 26.39 -80.11	Palm Beach	E5514	7.36
12 WSW Buckhead Ridge 27.03 -81.07	Glades	BRGF1	7.30
9 SW Buckhead Ridge 27.03 -81.00	Glades	NWLF1	7.11
3 NW Moore Haven 26.86 -81.14	Glades	MRHF1	6.98
University Park 25.75 -80.38	Miami-Dade	MFL	6.96
2 E Miami Springs 25.81 -80.26	Miami-Dade	MINF1	6.94
5 E Leisure City 25.49 -80.35	Miami-Dade	BHMF1	6.88
El Portal 25.85 -80.19	Miami-Dade	ELPF1	6.79
Princeton 25.54 -80.41	Miami-Dade	PRNF1	6.79
2 WNW Deerfield Beach 26.33 -80.13	Broward	BORF1	6.76
3 N Florida Gardens 26.67 -80.18	Palm Beach	FL-PB-87	6.61
2 E Lakeport 26.98 -81.09	Glades	LKPF1	6.60

5 SW Florida City 25.40 -80.56	Miami-Dade	EVGF1	6.49
3 NE Cutler Bay 25.61 -80.31	Miami-Dade	CTRF1	6.48
1 S Juno Beach 26.86 -80.06	Palm Beach	JUBF1	6.47
Pompano Beach 26.23 -80.12	Broward	PNOF1	6.39
Miami Lakes 25.91 -80.32	Miami-Dade	MMLF1	6.33
3 W Jupiter 26.93 -80.14	Palm Beach	JPTF1	6.32
15 W Buckhead Ridge 27.12 -81.16	Glades	IPRF1	6.18
7 WSW Buckhead Ridge 27.09 -81.01	Glades	IPEF1	6.18
7 WNW Richmond Heights 25.66 -80.48	Miami-Dade	RHWF1	6.18
9 W Sweetwater 25.76 -80.50	Miami-Dade	TTLF1	6.11
3 SSE Cutler Bay 25.54 -80.33	Miami-Dade	BCPF1	6.07
14 WNW Buckhead Ridge 27.19 -81.13	IPIF1	Glades	6.03
13 SSE South Bay 26.48 -80.65	Palm Beach	SWAF1	6.03
31 W Coral Springs 26.33 -80.78	Broward	HYDF1	5.90
3 NW Haverhill 26.72 -80.16	Palm Beach	D7488	5.90
1 SE Pompano Beach 26.22 -80.11	Broward	PSEF1	5.88
North Palm Beach 26.82 -80.08	Palm Beach	NPBF1	5.64
North Miami Beach 25.95 -80.26	Miami-Dade	NMBF1	5.59
Canal Point 26.86 -80.63	Palm Beach	CNPF1	5.59
2 WNW Leisure City 25.50 -80.47	Miami-Dade	LSCF1	5.47
Boynton Beach 26.54 -80.06	Palm Beach	BYBF1	5.39
4 S Cutler Bay 25.52 -80.35	Miami-Dade	BBBF1	5.28
1 E Weston 26.11 -80.36	Broward	D4511	5.23
2 NNW Country Walk	Miami-Dade	C4495	5.14

25.67 -80.44

REMARKS: DATA IS FOR PERIOD FROM SEPTEMBER 9TH AT 1200 UTC TO  
SEPTEMBER 11TH AT 1200 UTC

D. INLAND FLOODING...

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MIAMI-DADE...PUBLIC REPORTS FLOOD WATERS IN GARAGE OF HOME EAST OF  
US1 NEAR SW184TH ST

GLADES...GLADES COUNTY EMERGENCY MANAGEMENT REPORTS THAT STATE ROAD  
29 IS CLOSED DUE TO STANDING WATER FROM STATE ROAD 78... EXTENDING  
NORTHEASTWARD... HALFWAY TO PALMDALE. STATE ROAD 78 IS ALSO CLOSED  
DUE TO STANDING WATER FROM STATE ROAD 29 TO US27. THESE ROADS HAVE  
BEEN CLOSED SINCE YESTERDAY... SEPTEMBER 12TH.

BROWARD...STREET FLOODING, NO MAJOR IMPACTS NOTED.

PALM BEACH...STREET FLOODING. NO MAJOR IMPACTS NOTED.

HENDRY...FLOODING OF LOW LYING AREAS, AS WELL AS SHEET FLOW  
FLOODING.

COLLIER...SIGNIFICANT FLOODING OF LOW LYING AREAS, WITH STANDING  
WATER IN MANY LOCATIONS OVER THE INTERIOR INCLUDING GOLDEN GATE  
ESTATES, BIG CYPRESS NATIONAL PRESERVE AND EVERGLADES NATIONAL PARK.

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E. MAXIMUM STORM SURGE AND STORM TIDE...  
OFFICIAL TIDE GAUGES NOTED WITH LEADING G  
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COUNTY	CITY/TOWN OR LOCATION	SURGE (FT)	TIDE (FT)	DATE/ TIME	BEACH EROSION
MIAMI-DADE	G VIRGNIA KEY	3.92	3.66	10/1630	MAJOR
PALM BEACH	G LAKE WORTH PIER	2.23	1.50	10/1542	MODERATE
COLLIER	G NAPLES	5.14	4.25	10/2306	MODERATE
COLLIER	NAPLES BAY	5.00	4.13	11/0130	NONE I
MIAMI-DADE	BLACK POINT	5.00	5.61	10/1748	UNKNOWN
MIAMI-DADE	TURKEY POINT	3.50	4.07	10/1651	UNKNOWN
MIAMI-DADE	BAL HARBOUR	3.80	3.32	10/1848	UNKNOWN
MIAMI-DADE	MATHESON HAMMOC	5.00	5.36	10/1809	UNKNOWN
MIAMI-DADE	COCONUT GROVE	6.00	5.75	10/2151	UNKNOWN
BROWARD	DANIA BEACH	2.00	2.54	10/1556	MODERATE
BROWARD	POMPANO BEACH	2.70	3.72	10/1558	MODERATE
COLLIER	EVERGLADES CITY	6.50	8.92	10/2334	UNKNOWN
COLLIER	GOODLAND	5.50	7.17	10/2210	UNKNOWN
COLLIER	MARCO ISLAND	5.00	5.37	10/2238	MODERATE

REMARKS: ENTRIES 4-14 ARE FROM USGS RAPID DEPLOYMENT GAUGES.

COLLIER COUNTY: SURVEY INDICATED HIGHEST INUNDATION IN CHOKOLOSKEE  
OF 6-8 FEET AT WATERFRONT, APPROXIMATELY 8 FT ABOVE MEAN HIGHER HIGH

WATER (MHHW), WITH 3-5 FEET ACROSS MOST OF ISLAND. IN EVERGLADES CITY, MAXIMUM 6 FT OF INUNDATION AT EVERGLADES NATIONAL PARK GULF VISITOR CENTER, WITH 2-4 FEET ACROSS THE TOWN AND AS HIGH AS 5 FEET IN A FEW AREAS. USGS DATA INDICATES 1-2 FEET OF INUNDATION AS FAR INLAND AS TAMiami TRAIL BETWEEN STATE ROAD 29 AND COLLIER SEMINOLE STATE PARK. IN GOODLAND, 5-6 FT INUNDATION AT WATERFRONT, ABOUT 5.5 FT ABOVE MHHW, AND 3-4 FT ACROSS MOST OF TOWN. IN MARCO ISLAND, 2-4 FT INUNDATION MAINLY SOUTH AND EAST PARTS OF ISLAND WITH LESS THAN HALF-MILE INLAND PENETRATION. IN NAPLES, 3-4 FT INUNDATION ALONG GULF WATER FRONT WITHIN 1 BLOCK OF BEACH, WITH LESS THAN A HALF-MILE INLAND PENETRATION. HIGHEST INUNDATION VALUES NOTED IN VANDERBILT BEACH AS WELL AS SOUTH OF NAPLES PIER. ALONG NAPLES BAY, INUNDATION OF 1 TO 2 FEET ON WEST SIDE OF BAY JUST SOUTH OF TAMiami TRAIL, RESULTING IN ABOUT 2-3 FT ABOVE MHHW.

MIAMI-DADE COUNTY: 3-5 FEET INUNDATION ALONG BISCAYNE BAY SHORELINE FROM HOMESTEAD TO DOWNTOWN MIAMI/BRICKELL, WITH HIGHEST ESTIMATED VALUE OF 6 FEET IN MATHESON HAMMOCK PARK AND COCONUT GROVE. INLAND PENETRATION LESS THAN A HALF-MILE, PRIMARILY AFFECTING BAYFRONT PROPERTIES AND ADJACENT STREETS. LESSER INUNDATION NORTH OF DOWNTOWN MIAMI AND ALONG ATLANTIC OCEANFRONT.

BROWARD COUNTY: HIGHEST INUNDATION 2-3 FEET ALONG BARRIER ISLAND FROM FORT LAUDERDALE BEACH SOUTH. OVERWASH OF AIA IN FORT LAUDERDALE INTO ADJACENT STREETS. INLAND PENETRATION LESS THAN A HALF-MILE. LITTLE SIGNIFICANT INUNDATION NOTED NORTH OF FORT LAUDERDALE BEACH.

PALM BEACH COUNTY: LITTLE SIGNIFICANT INUNDATION NOTED.

F. TORNADOES...

(DIST) CITY/TOWN LAT LON (DEG DECIMAL) DESCRIPTION	COUNTY	DATE/ TIME (UTC)	EF SCALE (IF KNOWN)
1 S WILTON MANORS 26.15 -80.13	COASTAL BROWARD	09/2235	EF0

A TORNADO WAS REPORTED BY A HAM RADIO OPERATOR IN OAKLAND PARK AT 635 PM EDT.

4 W HOMESTEAD PARK 25.44 -80.39	COASTAL MIAMI DA	09/2320	- I
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A TORNADO WAS REPORTED BY MEMBER OF THE PUBLIC AROUND HOMESTEAD MOTOR SPEEDWAY AT 720 PM EDT.

2 W OCHOPEE 25.89 -81.33	WESTERN COLLIER	09/1620	EF1
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LEANING WOOD POWER POLES ALONG TAMiami TRAIL/US 41 BETWEEN OCHOPEE AND CARNESTOWN/SR 29 INTERSECTION.

G. STORM IMPACTS BY COUNTY...

COUNTY DESCRIPTION	DEATHS	INJURIES	EVACUATIONS
COLLIER	1		17,000

SUBJECT TO CHANGE WITH SUBSEQUENT UPDATES. ESTIMATED \$320 MILLION IN DAMAGE TO UNINCORPORATED COLLIER COUNTY, DOES NOT INCLUDE TOTALS FROM NAPLES, MARCO ISLAND AND EVERGLADES CITY. MAJORITY OF STRUCTURES IN EVERGLADES CITY SUFFERED MAJOR WIND AND/OR WATER DAMAGE. COUNTY-WIDE, AT LEAST 88 BUILDINGS DESTROYED AND 1,500 WITH MAJOR DAMAGE. HEAVY TREE AND POWER POLE DAMAGE IN AREAS AFFECTED BY

EYE WALL, INCLUDING PORT OF THE ISLANDS, MARCO ISLAND, COLLIER SEMINOLE STATE PARK, GOLDEN GATE, ORANGETREE AND PARTS OF CITY OF NAPLES CONSISTENT WITH TYPICAL DAMAGE CAUSED BY WINDS OVER 110 MPH. EVIDENCE OF POSSIBLE MINI-SWIRLS IN NE QUADRANT OF EYE WALL IN THE ORANGETREE/VALENCIA LAKES AREA NORTH OF GOLDEN GATE ESTATES AS SUGGESTED BY DAMAGE PATTERN. CONCENTRATED TREE DAMAGE IN PORT OF THE ISLANDS, COLLIER SEMINOLE STATE PARK AND MARCO ISLAND ALSO SUGGEST POSSIBLE MINI-SWIRLS, BUT NOT DETERMINED WITH SAME LEVEL OF CONFIDENCE AS IN ORANGETREE. 197,630 FPL CUSTOMERS LOST POWER, 94% OF TOTAL CUSTOMERS. OVER 30,000 INSURANCE CLAIMS FILED.

HENDRY 1

PRELIMINARY DAMAGE ESTIMATES INCLUDE 131 RESIDENTIAL STRUCTURES WITH MAJOR DAMAGE AND 42 DESTROYED. OVER 2,000 INSURANCE CLAIMS FILED AND ALMOST 10,000 CUSTOMERS LOST POWER, VIRTUALLY ALL CUSTOMERS IN THE COUNTY.

GLADES

334 STRUCTURES SUFFERED MAJOR DAMAGE, 118 UNINHABITABLE AND 33 DESTROYED WITH 50% OF COUNTY ASSESSMENT COMPLETED. TREE AND POWER POLE DAMAGE THROUGHOUT COUNTY WITH SEVERAL HOMES SUSTAINING TOTAL ROOF FAILURE. TOTAL OF 689 INSURANCE CLAIMS FILED.

MIAMI DADE 5 31,092

PRELIMINARY ASSESSMENT OF 1,000 RESIDENCES SUSTAINING SIGNIFICANT DAMAGE. ABOUT 50% OF AGRICULTURAL INDUSTRY DAMAGED WITH ESTIMATED LOSSES CLOSE TO \$245 MILLION. TOTAL OF 888,530 FPL CUSTOMERS LOST POWER, 80% OF TOTAL CUSTOMERS IN COUNTY. MAJORITY OF DAMAGE COUNTY-WIDE WAS TO TREES AND FENCES, WITH FLOODING DAMAGE IN AREAS IMPACTED BY STORM SURGE ALONG THE BISCAYNE BAY SHORELINE. TOTAL OF 55,012 INSURANCE CLAIMS FILED IN THE COUNTY.

BROWARD 19 17,000

12 OF THE 19 REPORTED DEATHS OCCURRED IN NURSING HOME IN HOLLYWOOD FROM HYPERTHERMIA CAUSED BY LOSS OF POWER. TOTAL OF 689,500 FPL CUSTOMERS LOST POWER, ABOUT 74% OF TOTAL CUSTOMERS IN THE COUNTY. 38,836 INSURANCE CLAIMS FILED. DAMAGE PRIMARILY TO TREES AND FENCES.

PALM BEACH 3 17,263

TOTAL OF 566,240 FPL CUSTOMERS LOST POWER, OVER 75% OF TOTAL CUSTOMERS IN THE COUNTY. 18,930 INSURANCE CLAIMS FILED. MAJORITY OF DAMAGE WAS TO TREES AND FENCES.

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Legend:  
I-Incomplete Data  
E-Estimated

REYNES/MOLLEDA/HAGEN

# Appendix G – Post Tropical-Cyclone Report from the Key West NWS WFO

699

ACUS72 KKEY 291651 AAB  
PSHKEY

POST TROPICAL CYCLONE REPORT...HURRICANE IRMA...UPDATED  
NATIONAL WEATHER SERVICE KEY WEST FL  
1250 PM EDT FRI SEP 29 2017

UPDATED TEXT IN HEADLINES AND INCLUDED BAHIA HONDA STATE PARK  
RAINFALL TOTAL.

NOTE: THE DATA SHOWN HERE ARE PRELIMINARY...AND SUBJECT TO UPDATES  
AND CORRECTIONS AS APPROPRIATE.

THIS REPORT INCLUDES EVENTS OCCURRING WHEN WATCHES AND/OR WARNINGS  
WERE IN EFFECT...OR WHEN SIGNIFICANT FLOODING ASSOCIATED WITH IRMA  
OR ITS REMNANTS WAS AFFECTING THE AREA.

COUNTIES INCLUDED...MONROE

## A. LOWEST SEA LEVEL PRESSURE/MAXIMUM SUSTAINED WINDS AND PEAK GUSTS

METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IS 10 METERS AND WIND AVERAGING IS 2 MINUTES

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)

KEYW-KEY WEST INTERNATIONAL AIRPORT  
24.56 -81.76 I 020/052 10/1115 030/082 10/1113

KMTH-FLORIDA KEYS MARATHON INTERNATIONAL AIRPORT  
24.73 -81.05 I 060/044 09/2353 060/062 09/2345

NON-METAR OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN  
MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)

KYWF1 - KEY WEST NOAA/NOS TIDE GAUGE  
25.55 -81.81 340/061 10/1224 340/078 10/1224

ANEMOMETER HEIGHT 15 M (49.2 FT AGL)  
ADDITIONAL WIND REPORTS FOR THE NORTH KEY  
LARGO HANDAR AND KEY DEER NWR RAWs IN SECTION A AND STORM TOTAL  
RAINFALL REPORTS IN SECTION C.

VCAF1 - VACA KEY NOAA/NOS TIDE GAUGE  
24.71 -81.11 160/054 10/1342 160/081 10/1342  
ANEMOMETER HEIGHT 6.5 M (21.3 FT AGL)

XSMS - WEATHERFLOW KEY WEST COAST GUARD SECTOR  
24.57 -81.57 952.9 10/1225 014/053 10/1140 349/077 10/1245

XUMK - WEATHERFLOW UPPER MATECUMBE KEY  
24.92 -80.64 976.3 10/1256 160/061 10/1436 158/081 10/1401

XSKL - WEATHERFLOW SOUTH KEY LARGO  
25.10 -80.43 980.8 10/1347 135/054 10/1542 135/074 10/1542

TS607 - KEY DEER NATIONAL WILDLIFE REFUGE RAWs (BIG PINE KEY)  
24.72 -81.39 090/048 10/1438 104/104 10/1338  
ANEMOMETER HEIGHT 6.1 M (20 FT AGL)  
SUSTAINED WINDS 10-MIN AVERAGE

KLNF1 - NORTH KEY LARGO HANDAR  
 25.19 -80.35 987.5 10/1400 110/045 10/1330 110/063 10/1300  
 10/1500

WFO KEY WEST (ROOFTOP RSOIS)  
 24.55 -81.79 030/079 10/1155

USCG ISLAMORADA STATION  
 24.95 -80.59 050/071 10/0430  
 ANEMOMETER HEIGHT 5.5 M (18 FT AGL)

104.1 FM STUDIO - UPPER SUGARLOAF KEY  
 24.67 -81.53 939.7 10/1315  
 REMARK: REPORTED AS 27.75 IN

B. MARINE OBSERVATIONS...

NOTE: ANEMOMETER HEIGHT IN METERS AND WIND AVERAGING PERIOD IN  
 MINUTES INDICATED UNDER MAXIMUM SUSTAINED WIND IF KNOWN

LOCATION	ID	MIN	DATE/	MAX	DATE/	PEAK	DATE/
LAT LON		PRES	TIME	SUST	TIME	GUST	TIME
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)
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PLSF1 - PULASKI SHOAL LIGHT CMAN							
24.70	-82.77	986.5	10/1500	010/059	10/1200	010/072	10/1142
ANEMOMETER HEIGHT 17.7 M (58.1 FT AMSL)							
XSMS - WEATHERFLOW SMITH SHOAL LIGHT							
24.72	-81.92	964.6	10/1230	027/067	10/1210	035/084	10/0905
XALG - WEATHERFLOW ALLIGATOR REEF LIGHT							
24.85	-80.62	977.0	10/1204	106/062	10/1159	106/081	10/1159
MLRF1 - MOLASSES REEF LIGHT CMAN							
25.01	-80.38	884.7	10/1300	130/065	10/1200	140/080	10/1300
				140/065	10/1300		
ANEMOMETER HEIGHT 15.8 M (51.8 FT AMSL)							
XCFL - WEATHERFLOW CARYSFORT REEF LIGHT							
25.23	-80.21	986.8	10/1325	120/062	10/1240	124/081	10/1335
ANEMOMETER HEIGHT 47 FEET AMSL							

C. STORM TOTAL RAINFALL FROM 0400 UTC SEP 09 UNTIL 0400 UTC SEP 12

CITY/TOWN	COUNTY	ID	RAINFALL
LAT LON			(IN)
DEG DECIMAL			
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KEY DEER NATIONAL WILDLIFE REFUGE RAW'S (BIG PINE KEY)			
24.72	-81.39	MONROE	TS607 12.54
5.3 SW KEY LARGO			
25.05	-80.49	MONROE	COCORAHS 9.98
RAINFALL RECOVERED FOR PERIOD SEP 08 THROUGH SEP 15			
0.9 SSW CUDJOE KEY			
24.66	-81.51	MONROE	COCORAHS 9.76
RAINFALL RECOVERED FOR PERIOD SEP 09 THROUGH SEP 18			
6.8 ENE MARATHON			
24.74	-80.98	MONROE	COCORAHS 9.42
RAINFALL RECOVERED FOR PERIOD SEP 09 THROUGH SEP 19			
1.3 NE KEY WEST			
24.57	-81.76	MONROE	COCORAHS 9.03
1 WSW BAHIA HONDA KEY			
24.66	-81.28	MONROE	BPNF1 7.58
RAINFALL RECOVERED FOR PERIOD SEP 06 THROUGH SEP 22			

NORTH KEY LARGO HANDAR  
 24.19 -80.35 MONROE KLNFL 7.16

6.2 NE KEY LARGO  
 25.17 -80.37 MONROE COCORAHS 6.93  
 RAINFALL RECOVERED FOR PERIOD SEP 07 THROUGH SEP 13

1 SW KEY WEST  
 24.55 -81.79 MONROE KKEY 5.70

REMARKS (UPDATED): DUE TO INCOMPLETE RAINFALL RECORDS FROM FAILED AUTOMATED STATIONS AND MANDATORY RESIDENTIAL EVACUATION OF MONROE COUNTY FLORIDA KEYS...PLEASE NOTE SPECIFIC RAINFALL RECOVERY PERIODS AS RESIDENTS AND PARTNERS RETURNED TO REPORT TOTAL RAINFALL.

D. INLAND FLOODING...

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 MONROE FLORIDA KEYS...RAINFALL FLOODING OF 6 TO 18 INCHES IN DEPTH OBSERVED IN OCEAN REEF DURING MONROE EOC CONTINUITY OF OPERATIONS CLEARLY DISTINGUISHABLE FROM STORM SURGE. RAINFALL ON TOP OF EXISTING STORM SURGE RESULTED IN TOTAL WATER HEIGHT 6 TO 10 INCH HIGHER STORM SURGE VALUES IN NEW TOWN KEY WEST PER MEASURED WATERLINES.

REMARKS: STORM SURGE VALUES GREATLY EXCEEDED POTENTIAL RAINFALL FLOOD DEPTHS ACROSS MOST AREAS OF THE FLORIDA KEYS AND WILL B (TOP OF THE 5TH STOREY ABOVE GROUND)E VERY DIFFICULT TO DISTINGUISH.

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 E. MAXIMUM STORM SURGE AND STORM TIDE...  
 OFFICIAL TIDE GAUGES NOTED WITH LEADING G

COUNTY	CITY/TOWN OR LOCATION	SURGE (FT)	TIDE (FT)	DATE/ TIME	BEACH EROSION
MONROE	G KYWF1-KEY WEST	2.77	2.73	10/1742	I
MONROE	G KYWF1-KEY WEST	3.29	2.56	10/1424	I
MONROE	G VCAF1-VACA KEY	2.77	2.21	11/0118	I
MONROE	G VCAF1-VACA KEY	2.80	2.19	11/0130	I
MONROE	G MANATEE BAY CR		4.05	10/1000	I

REMARKS: FOR EACH STATION...  
 ...FIRST ROW DENOTES TIME OF MAX STORM TIDE IN FT NAVD88  
 ...SECOND ROW DENOTES TIME OF MAX STORM SURGE IN FT  
 ...MANATEE BAY CREEK USGS GAUGE

ADDITIONAL REMARKS:  
 BASED ON DAMAGE SURVEYS...THE ESTIMATED INUNDATION OR PEAK FLOODING ABOVE GROUND (ABOVE MEAN HIGHER HIGH WATER - MHHW) REACHED 5 TO 8 FEET OVER PORTIONS OF THE LOWER AND MIDDLE KEYS. THIS INCLUDES PORTIONS OF SUGARLOAF KEY...CUDJOE KEY...RAMROD KEY...BIG PINE KEY...BAHIA HONDA KEY...VACA KEY (MARATHON AND KEY COLONY BEACH)...AND DUCK KEY.

OFFICIAL GAUGES AT KEY WEST AND VACA KEY ARE LOCATED ON THE GULF OF MEXICO COAST AND BAYSIDE RESPECTIVELY. KEY WEST STORM TIDE LEVELS WERE OBSERVED TO BE CONSISTENT WITH OBSERVED STORM SURGE FLOODING IN KEY WEST. VACA KEY BAYSIDE WAS IN THE LEE OF THE MAXIMUM SOUTH WINDS WITH MAXIMUM STORM TIDE VALUES OCCURRING WELL AFTER HURRICANE IRMA WAS CENTERED 35 MILES EAST-NORTHEAST OF FORT MYERS.

F. TORNADOES...



(DIST)CITY/TOWN                      COUNTY                      DATE/                      EF SCALE  
LAT LON (DEG DECIMAL)                      TIME (UTC)                      (IF KNOWN)  
DESCRIPTION

REMARKS: NO DISCERNABLE TORNADO DAMAGE PATHS WERE DETERMINED AT THIS TIME. THERE WAS EVIDENCE OF NON-UPDRAFT-INDUCED MESO-VORTICY DAMAGE RESULTING IN OPPOSITE FALL OF A CONTINUOUS STRETCH OF WOOD AND HOLLOW SPUN CONCRETE POWER DISTRIBUTION POLES ALONG KEY DEER BOULEVARD ALMOST TWO MILES NORTHWEST OF AN AREA OF LOCALLY EXTREME WIND DAMAGE ON BIG PINE KEY. THIS WIND DAMAGE LIKELY OCCURRED WITHIN THE ALMOST TWO-HOUR PASSAGE OF THE EASTERN EYEWALL OF HURRICANE IRMA.

G. STORM IMPACTS BY COUNTY...

COUNTY DESCRIPTION	DEATHS	INJURIES	EVACUATIONS
MONROE	9	SEE REMARKS	SEE REMARKS

THE FOLLOWING REPORT IS PRELIMINARY AND MAY BE REVISED PENDING OFFICIAL JURISDICTIONAL AND DIVISIONAL REPORTS.

REMARKS: FATALITY INFO RELEASED BY THE MONROE COUNTY SHERIFFS OFFICE. THIS VALUE MAY BE REVISED PENDING RELEASE OF ADDITIONAL INFORMATION FROM AN OFFICIAL MONROE COUNTY SOURCE. INCLUDES BOTH DIRECT AND INDIRECT CAUSES.

MORE THAN 40 INJURIES WERE IMMEDIATELY REPORTED WITHIN ONE DAY OF HURRICANE IRMA'S DEPARTURE...BUT TOTAL INJURIES BOTH DIRECT AND INDIRECT ARE PENDING.

PRELIMINARY EVACUATION TOTALS PRIOR TO THE ARRIVAL OF HURRICANE IRMA OUT OF APPROXIMATELY 73,000 RESIDENTS OF MONROE COUNTY INDICATE APPROXIMATELY A 75 PERCENT EVACUATION RATE.

MONROE LOWER KEYS...KEY WEST THROUGH LITTLE DUCK KEY

OVER BAHIA HONDA THROUGH LITTLE TORCH KEY...THE STRONGEST ESTIMATED WINDS WERE EVIDENT...POSSIBLY ATTRIBUTABLE TO A MESO-VORTEX CIRCULATION WITHIN THE EYEWALL. A GENERAL PATH OF MAXIMUM WIND DAMAGE OCCURRED FROM JUST SOUTH OF BIG PINE KEY PARK THROUGH KEY DEER BOULEVARD NORTH OF SOUTH STREET. COMPLETE ROOF STRUCTURE FAILURE INVOLVING SNAPPED WOOD TRUSSES WAS OBSERVED ON SEVERAL HOMES ALONG WITH COMPLETE EXTERIOR WALL FAILURE ON A WATERFRONT HOME. THE PATH CONTINUED ACROSS KEY DEER BOULEVARD WHERE UTILITY POLES BOTH OF WOOD AND HOLLOW-SPUN CONCRETE DESIGN WERE SNAPPED WITH NUMEROUS SPANS LYING IN COMPLETELY OPPOSITE DIRECTIONS...THE SOUTHERN SPANS OPPOSITE TO THE PATH DIRECTION. PEAK WIND GUSTS ESTIMATED 150 TO 160 MPH ALONG THE NORTHERN SIDE OF THE POSSIBLE CIRCULATION. ELSEWHERE ACROSS BIG PINE KEY...SIGNIFICANT ROOF LOSS/EXTERIOR WALL COLLAPSE OF OLDER MOBILE HOMES...LARGE SECTIONS OF ROOF COVERINGS ALL TYPES...SOFFET DAMAGE AND LARGE METAL ROOF...WALL...AND DOOR FAILURES ON A MODERN METAL BUILDING SYSTEM INDICATED MORE WIDESPREAD ESTIMATED PEAK WIND GUSTS OF 120 TO 130 MPH.

FROM RAMROD KEY THROUGH SUGARLOAF KEY...WIDESPREAD AND BUSINESS - RESIDENTIAL ROOF COVERING DAMAGE OF ALL TYPES WAS OBSERVED...WITH ISOLATED ROOF TRUSS OR GABLE END FAILURES OF OLDER DESIGN. IT WAS NOTED A DIAGONAL METAL CROSS BRACE ON THE POWER TRANSMISSION LINE ACROSS NILES CHANNEL BECAME DETACHED FROM ONE VERTICAL CONCRETE COLUMN INDICATIVE OF SIGNIFICANT FLEXING OF THE TRANSMISSION TOWERS. ESTIMATED PEAK WIND GUST 110 TO 120 MPH.

FROM LOWER SUGARLOAF THROUGH BIG COPPITT KEY...WIDESPREAD SMALL RESIDENTIAL AND BUSINESS ROOF COVERINGS WITH ISOLATED STRUCTURAL GABLE END OR OVERHANG DAMAGE WAS NOTED ESPECIALLY IN AREAS OF OPEN

NORTH WIND EXPOSURE. ISOLATED MOBILE HOME DESTRUCTION INCLUDING COLLAPSE OF ALL WALLS...ALTHOUGH SOME MODERN MOBILE HOMES ADJACENT TO PROPERTIES WITH SEVERE DESTRUCTION EXHIBITED FEW SIGNS OF COSMETIC DAMAGE. ESTIMATED PEAK WIND GUSTS 100 TO 110 MPH.

FROM BOCA CHICA KEY THROUGH KEY WEST...LOSSES OF ROOF COVERINGS...SOFFET DAMAGE TO RESIDENTIAL HOMES AND CONDOMINIUMS WERE NOTED...WITH TWO LODGING PROPERTIES INDICATED WITH GABLE END WOOD TRUSS FAILURES OF BOTH MID-RISE AND TWO-STOREY DESIGN. PEAK ESTIMATED WIND GUSTS 90 TO 100 MPH...ALTHOUGH THE MID-RISE ROOF STRUCTURE FAILURE LOCATED WITH OPEN NORTH WIND EXPOSURE OFF THE GULF OF MEXICO MAY HAVE INDICATED ISOLATED STRONGER WIND GUSTS OF 100 TO 110 MPH AT ROOFTOP LEVEL IN THIS HOUR.

TREE DAMAGE WAS WIDESPREAD AND EXTENSIVE.

MONROE MIDDLE KEYS...PIGEON KEY/MARATHON THROUGH CRAIG KEY

WIND DAMAGE FROM LONG KEY/LAYTON THROUGH GRASSY KEY INCLUDED SEVERAL SECTIONS OF PULLED METAL BUILDING SYSTEM WALL PANELS...DAMAGE TO BUILT-UP AND SHINGLE ROOF COVERINGS...VINYL SIDING...AND PLASTIC paneled signs. PEAK WIND GUSTS ESTIMATED 90 TO 100 MPH.

THE FOLLOWING REPORT IS PRELIMINARY AND MAY BE REVISED PENDING OFFICIAL JURISDICTIONAL AND DIVISIONAL REPORTS. IN THE KEY COLONY BEACH AND MARATHON VICINITY...AREAL OVERFLIGHT FROM LOCAL AGENCIES REVEALED SIGNIFICANT ROOF COVERING LOSS AND ISOLATED ROOF TRUSS DAMAGE ON OLDER DESIGN OCEANFRONT HOMES. OLDER RETAIL STORES AND A STRIP MALL DISPLAYED COMPLETE UPLIFT AND COLLAPSE OF ROOF STRUCTURES OF BOX TRUSS TYPE...WHILE MODERN DESIGN STRUCTURES DISPLAYED SIGNIFICANT SECTIONS OF ROOF COVERING LOSS...INCLUDING METAL PANEL-OVER WOOD SHEATHING AND BUILT-UP TAR/RUBBER COVERINGS. SOME OLDER SERVICE STATION CANOPIES DISPLAYED COLUMN BUCKLING WHEREAS MODERN DESIGNS PERFORMED WELL OR HAD SLIGHT RACKING. SIGNIFICANT ROOF PANEL DAMAGE TO MOBILE HOMES OVER BOTH OLDER AND MODERN DESIGN. WHILE TRAFFIC SIGNAL MASTS REMAINED IN PLACE SOME HORIZONTALLY MOUNTED SIGNALS WERE STILL BLOWN 90 DEGREES OUT OF ALIGNMENT. PEAK WIND GUSTS ESTIMATED 100 TO 115 MPH.

TREE DAMAGE WAS WIDESPREAD AND EXTENSIVE.

MONROE UPPER KEYS...LOWER MATECUMBE KEY THROUGH OCEAN REEF

WIND DAMAGE FROM OCEAN REEF THROUGH KEY LARGO WAS CONSISTENT WITH ESTIMATED PEAK GUSTS NEAR 90 MPH WITH LIMITED LOSSES OF BUILT-UP ROOF COVERINGS...AND METAL FASCIA FROM GAS STATION CANOPIES. SOME OLDER STRIP MALLS IN KEY LARGO DISPLAYED LARGE LOSSES OF SHINGLE AND BARRELL TILE COVERINGS.

IN TAVERNIER...MODERN DESIGN LARGE METAL BUILDING SYSTEMS DISPLAYED FAILURE OF OVERHEAD DOORS ON EAST AND SOUTHEAST-FACING SIDES...WITH OLDER DESIGNS INCLUDING SOME PULLED EXTERIOR SHEET PANELS. PEAK GUSTS NEAR 100 MPH ESTIMATED. SIGN DAMAGE WAS MORE PREVALENT THAN IN KEY LARGO.

IN ISLAMORADA...WIND ESTIMATION AMONG MOBILE HOMES WAS DIFFICULT DUE TO IMPACTS OF STORM SURGE FLOODING...HOWEVER ROOF PANELS WERE STRIPPED FROM SOME HOMES ALONG WITH VINYL SIDING DAMAGE ON MODERN SINGLE FAMILY HOMES. ONE SERVICE STATION CANOPY WAS COMPLETELY OVERTURNED...HOWEVER THERE WAS NO DISCERNABLE DAMAGE TO THE FOUNDATION FLANGES OR COLUMNS. PEAK WIND GUSTS ESTIMATED AT 90 TO 100 MPH.

TREE DAMAGE WAS WIDESPREAD AND EXTENSIVE.

THROUGHOUT THE KEYS--WIDESPREAD LOSS OF ELECTRIC POWER...CELLULAR COMMUNICATIONS AND WATER PRESSURE OCCURRED. MOST POWER PROBLEMS WERE DUE TO FAILURE OF DISTRIBUTION SYSTEMS...ALTHOUGH SIGNICANT

INSULATOR DAMAGE OCCURRED NEAR THE EAST END OF LONG KEY ON THE TRANSMISSION LINE. THE WATER TRANSMISSION PIPE WAS LARGELY INTACT...HOWEVER NUMEROUS NEIGHBORHOOD DISTRIBUTION LEAKS OCCURRED AS TREES UPROOTED. NO COMMUNICATIONS TOWERS WERE REPORTED COLLAPSED OR DEFORMED...ALTHOUGH MOUNTED ANTENNAS ON THE TOWERS WERE DAMAGED OR FELL OUT OF ALIGNMENT. A FEW MICROWAVE RELAY DISHES WERE TORN FROM THEIR TOWERS. WIDESPREAD DAMAGE TO TELECOM AND FIBER CABLES DUE TO FALLING TREES AND DIRECT WIND IMPACTS STRIPPING FROM POLES AND BEING STRETCHED ACROSS STREETS.

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LEGEND:  
I-INCOMPLETE DATA  
E-ESTIMATED

RIZZO/MORELAND