



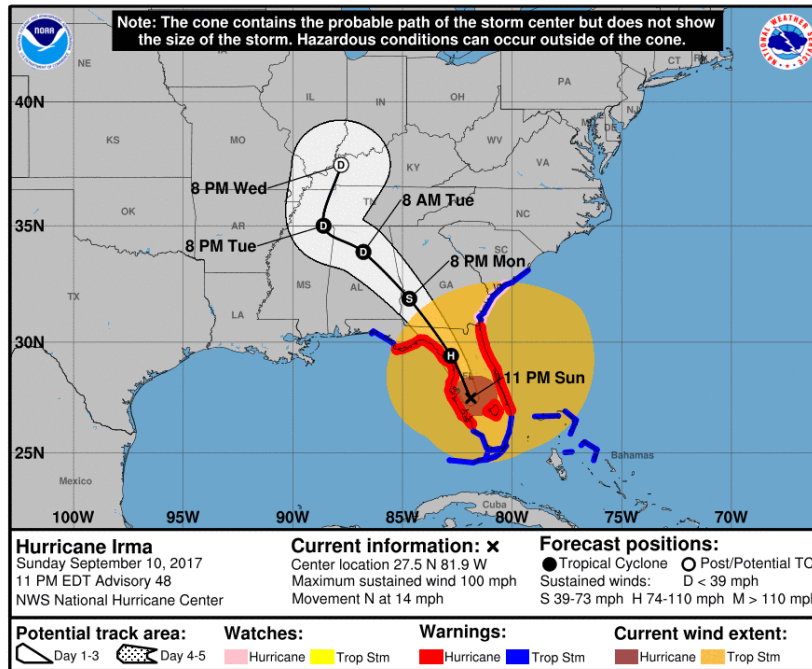
# National Weather Service Melbourne

## Hurricane Irma

September 10-11, 2017

### Post Storm Summary

Irma formed on August 30, 2017 near the Cape Verde Islands. This tropical cyclone underwent rapid intensification to a category 2 hurricane within 24 hours, and became a major hurricane shortly thereafter. Irma strengthened to a catastrophic category 5 hurricane on September 5, and reached peak intensity of 185 mph the next day. After causing catastrophic damage in the Leeward Islands as a category 5 hurricane, Irma made its first Florida landfall on Cudjoe Key as a category 4 hurricane, then a second landfall on Marco Island as a category 3 hurricane. A very large wind field and numerous tornadoes to the east of the center caused widespread damage in east central Florida as Irma moved up the western side of the peninsula the night of Sunday, September 10 into Monday, September 11. There was also widespread heavy rainfall associated with Irma’s passage, leading to significant flooding over east central Florida which persisted for several weeks in some areas, including the St Johns River.



NHC Irma Advisory #48 – 11 pm Sunday 10 September, 2017

# Post Tropical Cyclone Report:

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.

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	TIME
DEG DECIMAL	(MB)	(UTC)	(KT)	(UTC)	(KT)	(UTC)	(UTC)
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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	
KSFB-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			140/056	11/0230	100/079	11/0135
28.40	-80.65			54 FEET			
KSC0303	- USAF TOWER 303			100/039	11/0220	110/071	11/0220
28.46	-80.57			54 FEET			
KSC0311	- USAF TOWER 311			100/048	11/0220	080/072	11/0210
28.60	-80.57			54 FEET			
KSC0403	- USAF TOWER 403			100/044	11/0220	090/072	11/0150
28.46	-80.59			54 FEET			
KSC0412	- USAF TOWER 412			103/039	11/0219	099/065	11/0218
28.61	-80.67			12 FEET			
KSC0412	- USAF TOWER 412			092/056	11/0219	092/076	11/0218
28.61	-80.67			54 FEET			
KSC0415	- USAF TOWER 415			090/037	11/0220	090/064	11/0215
28.66	-80.70			54 FEET			
KSC0418	- USAF TOWER 418			130/042	11/0145	160/069	11/0455
28.71	-80.73			54 FEET			
KSC0506	- USAF TOWER 506			080/042	11/0130	100/072	11/0230
28.52	-80.64			54 FEET			
KSC0509	- USAF TOWER 509			100/037	11/0220	100/065	11/0230
28.57	-80.66			54 FEET			
KSC1102	- USAF TOWER 1102			MMM/MMM	MM/MMMM	103/092	11/0210
28.57	-80.59			162 FEET			
KSC0021	- USAF TOWER 21			106/073	11/0218	MMM/MMM	MM/MMMM
28.44	-80.56			204 FEET			
KSC1102	- USAF TOWER 1102			MMM/MMM	MM/MMMM	087/092	11/0210
28.57	-80.59						

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	ID	MIN	DATE/ TIME	MAX	DATE/ TIME	PEAK	DATE/ TIME
LAT LON		PRES		SUST		GUST	
DEG DECIMAL		(MB)	(UTC)	(KT)	(UTC)	(KT)	(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	COUNTY	ID	RAINFALL (IN)
LAT LON			
DEG DECIMAL			
FT. PIERCE WP (COOP)	ST. LUCIE	FPCF1	21.66
27.44 -80.35			
CHRISTMAS (SPOTTER)	ORANGE	ORA-048	17.44
28.57 -81.02			
FT. PIERCE (COCORAHS)	ST. LUCIE	FL-SL-41	17.25
27.56 -80.40			
FT. PIERCE (AIRPORT ASOS)	ST. LUCIE	KFPR	15.88
27.49 -80.37			
FT. PIERCE (SFWMD)	ST. LUCIE	NCSF1	15.18
27.47 -80.47			

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
OVIEDO (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
OVIEDO (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 (COCORAHNS) 28.63 -80.86	BREVARD	FL-BV-74	11.38
RANSOM RD - NASA (SJRWMD) 28.51 -80.68	BREVARD	M	11.34
TITUSVILLE (COCORAHNS) 28.63 -80.86	BREVARD	FL-BV-38	11.33
LADY LAKE (COCORAHNS) 28.95 -81.94	LAKE	FL-LK-22	11.26
CHULUOTA (COCORAHNS) 28.65 -81.12	SEMINOLE	FL-SM-8	11.22
ROCK SPRINGS WELL (SJRWMD) 28.77 -81.44	ORANGE	M	11.16
PALM BAY (COCORAHNS) 27.95 -80.64	BREVARD	FL-BV-1	11.10
VERO BEACH (COCORAHNS) 27.61 -80.39	INDIAN RIVER	FL-IR-27	11.04
LADY LAKE (COCORAHNS) 28.89 -81.94	LAKE	FL-LK-16	11.03
APOPKA (FAWN) 28.64 -81.55	ORANGE	POPF1	11.01
LADY LAKE (COCORAHNS) 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 (COCORAHNS) 27.64 -80.45	INDIAN RIVER	FL-VL-24	10.61
BAY LAKE (COCORAHNS) 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 (COCORAHNS) 28.57 -81.39	ORANGE	FL-OR-27	10.51
UMATILLA (FAWN) 28.93 -81.65	LAKE	UMLF1	10.49
PORT ST. LUCIE (COCORAHNS) 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) ORANGE 28.41 -81.56		M	10.21
WDW SERVICE AR (REEDY CREEK) ORANGE 28.38 -81.59		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...

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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  
ORANGE...FIRE DEPT AND NATIONAL GUARD RESCUING RESIDENTS FROM FLOODED HOMES  
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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
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 28.07 -80.56	BREVARD	10/1319	EF-0

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 A1A.

TURKEY CREEK TORNADO 28.03 -80.58	BREVARD	10/1500	EF-1
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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 28.09 -80.57	BREVARD	10/1524	EF-1
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A NWS STORM SURVEY REVEALED THAT A WATERSPOUT MOVED ONSHORE THE BARRIER ISLAND IN INDIALANTIC NEAR HIGHWAY A1A 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 28.69 -80.85	BREVARD	10/2149	EF-2
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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 28.69 -80.86	BREVARD	10/2201	EF-1
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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 1A, 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.

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                    0                    0                    MMMM  
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.

VOLUSIA                    0                    0                    MMMM  
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).

\$\$

LEGEND: I-INCOMPLETE DATA, E-ESTIMATED, 9999 OR MMMM - DENOTES MISSING DATA.

## Tornado Damage Surveys:

### NWS damage surveys for September 10, 2017 tornadoes associated with Hurricane Irma

- Surveys conducted on September 11-13 and 15-16, 2017
- Nine tornadoes confirmed within Brevard, Volusia and Lake Counties
- Rockledge Tornado updated to EF-1

#### ...Melbourne Beach Tornado...

Rating:                    EF-0

Estimated Peak Wind: 70-80 mph

Path Length /statute/: 0.20 miles

Path Width /maximum/: 50 yards

Fatalities:                0                Injuries:                0

Start Date:                09-10-2017    Start Time:                919 am EDT

Start Location:            1 SSE Indialantic

Start Lat/Lon:            28.0701, -80.5584

End Date:                 09-10-2017    End Time:                 919 am EDT

End Location:             1 SSE Indialantic

End Lat/Lon:             28.0701, -80.5584

Survey Summary: 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 A1A.

### **...Turkey Creek Tornado...**

Rating: EF-1  
Estimated Peak Wind: 100-110 mph  
Path Length /statute/: 1.33 miles  
Path Width /maximum/: 75 mph  
Fatalities: 0  
Injuries: 0  
Start Date: 09-10-2017  
Start Time: 1100 am EDT  
Start Location: 4 SSW Indialantic  
Start Lat/Lon: 28.0317, -80.5755  
End Date: 09-10-2017  
End Time: 1102 am EDT  
End Location: 5 SSW Indialantic  
End Lat/Lon: 28.0276, -80.5968

Survey\_Summary: 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...**

Rating: EF-1  
Estimated Peak Wind: 90-100 mph  
Path Length /statute/: 1.21 miles  
Path Width /maximum/: 75 yards  
Fatalities: 0  
Injuries: 0  
Start Date: 09-10-2017  
Start Time: 1124 am EDT  
Start Location: 0 W Indialantic  
Start Lat/Lon: 28.0943, -80.5665  
End Date: 09-10-2017  
End Time: 1126 am EDT  
End Location: 1 NW Indialantic  
End Lat/Lon: 28.1031, -80.5836

Survey\_Summary: A NWS storm survey revealed that a waterspout moved onshore the barrier island in Indialantic near Highway A1A 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...

Rating: EF-2  
Estimated Peak Wind: 115-125 mph  
Path Length /statute/: 1.55 miles  
Path Width /maximum/: 125 yards  
Fatalities: 0  
Injuries: 0  
Start Date: 09-10-2017  
Start Time: 548 pm EDT  
Start Location: 2 N Mims  
Start Lat/Lon: 28.6864, -80.8366  
End Date: 09-10-2017  
End Time: 550 pm EDT  
End Location: 2 NNW Mims  
End Lat/Lon: 28.6943, -80.8606

Survey\_Summary: Based on a NWS storm survey, a tornado developed just west of the intersection of Brockett Road and Hammock Road in Mims. The tornado snapped many trees and partially removed the roof from a mobile home on Brockett Road (strong EF-1 strength), then moved through a wooded area before reaching near the north end of Nab Street and the east end of Benson Court. 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 near Roosevelt Road.

**...Mims Northgate Mobile Home Park Tornado...**

Rating: EF-1  
Estimated Peak Wind: 90-95 mph  
Path Length /statute/: 0.48 miles  
Path Width /maximum/: 60 yards  
Fatalities: 0  
Injuries: 0  
Start Date: 09-10-2017  
Start Time: 600 pm EDT  
Start Location: 2 NNW Mims  
Start Lat/Lon: 28.6894, -80.8551  
End Date: 09-10-2017  
End Time: 601 pm EDT  
End Location: 2 NNW Mims  
End Lat/Lon: 28.6926, -80.8622

Survey\_Summary: 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...**

Rating: EF-1  
Estimated Peak Wind: 95-100 mph  
Path Length /statute/: 3.84 miles  
Path Width /maximum/: 500 yards  
Fatalities: 0  
Injuries: 0  
Start Date: 09-10-2017  
Start Time: 626 pm EDT  
Start Location: 5 WSW Paisley  
Start Lat/Lon: 28.9394, -81.6238  
End Date: 09-10-2017  
End Time: 630 pm EDT  
End Location: 2 WNW Umatilla  
End Lat/Lon: 28.9352, -81.6871

Survey\_Summary: 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...**

Rating: EF-1  
Estimated Peak Wind: 100-110 mph  
Path Length /statute/: 0.78 miles  
Path Width /maximum/: 175 yards  
Fatalities: 0  
Injuries: 0  
Start Date: 09-10-2017  
Start Time: 904 pm EDT  
Start Location: 6 NNW Daytona Beach  
Start Lat/Lon: 29.2901, -81.0572  
End Date: 09-10-2017  
End Time: 905 pm EDT  
End Location: 4 NNW Holly Hill  
End Lat/Lon: 29.2905, -81.0703

Survey\_Summary: 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.

### **...Rockledge Tornado...**

Rating: EF-1  
Estimated Peak Wind: 95-105 mph  
Path Length /statute/: 0.30 miles  
Path Width /maximum/: 60 yards  
Fatalities: 0  
Injuries: 0  
Start Date: 09-10-2017  
Start Time: 914 pm EDT  
Start Location: 5 S Merritt Island  
Start Lat/Lon: 28.2791, -80.6899  
End Date: 09-10-2017  
End Time: 915 pm EDT  
End Location: 5 S Merritt Island  
End Lat/Lon: 28.2809, -80.6944

Survey\_Summary: 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 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...

Rating: EF-1

Estimated Peak Wind: 100-110 mph

Path Length /statute/: 3.36 miles

Path Width /maximum/: 100 yards

Fatalities: 0 Injuries: 0

Start Date: 09-10-2017 Start Time: 948 pm EDT

Start Location: 5 WNW Cape Canaveral Start Lat/Lon: 28.4171, -80.6767

End Date: 09-10-2017 End Time: 950 pm EDT

End Location: 5 NNE Cocoa End Lat/Lon: 28.4460, -80.7211

Survey\_Summary: 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.

Analysis of additional damage reports associated with Hurricane Irma will continue over the next several days. Further tornadoes may be confirmed during the next several days.

The NWS thanks Lake County Emergency Management for assistance with the Umatilla storm survey and the Ormond Beach and Cape Canaveral Fire Departments for additional details.

EF0...Weak.....65 to 85 mph

EF1...Weak.....86 to 110 mph

EF2...Strong....111 to 135 mph

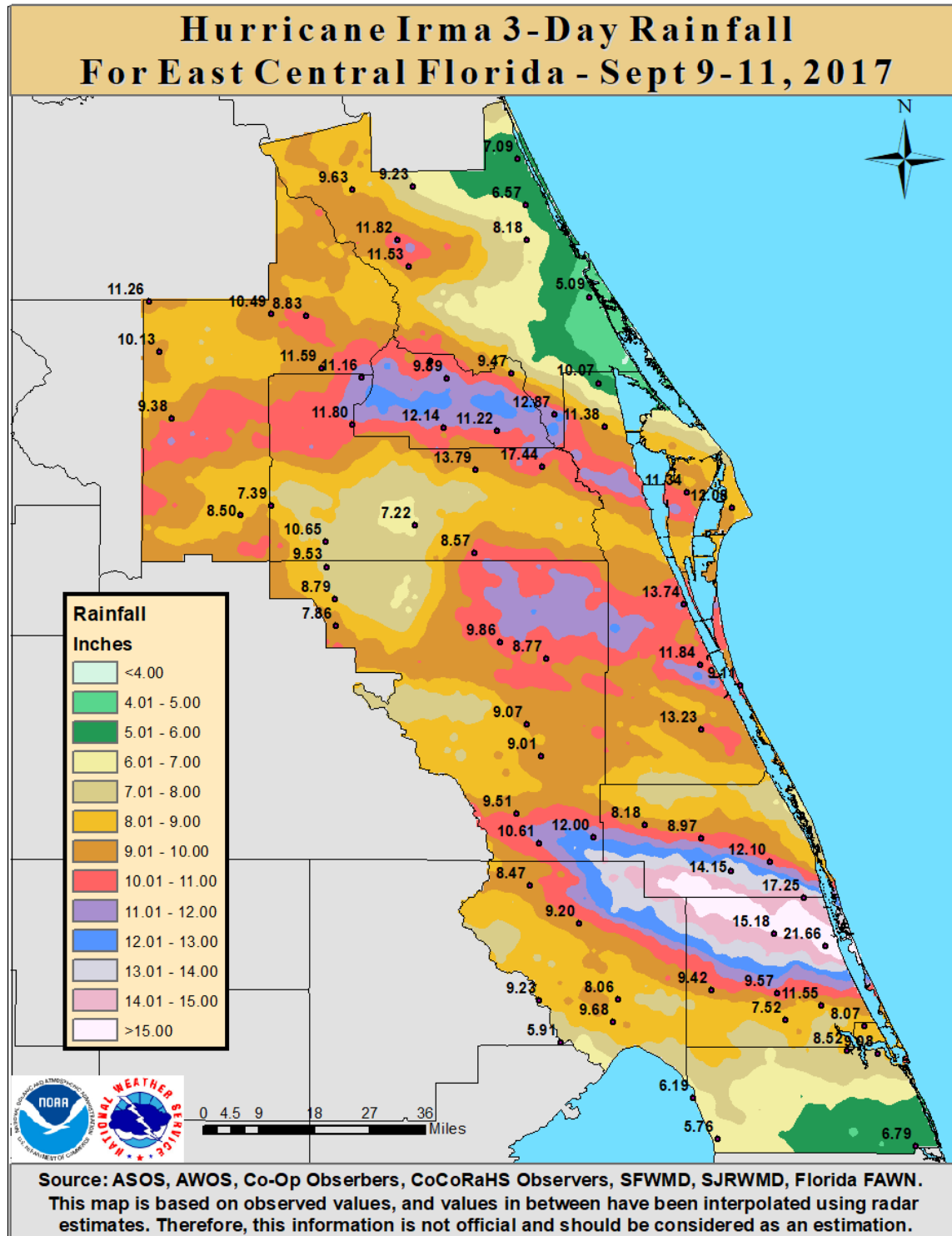
EF3...Strong....136 to 165 mph

EF4...Violent...166 to 200 mph

EF5...Violent...>200 mph

NOTE: The information in this statement is preliminary and subject to change pending final review of the events and publication in NWS storm data.

## Heavy Rainfall and Flooding:



**Public Information Statement**

National Weather Service Melbourne FL  
440 PM EDT Mon Sep 25 2017

...Updated Hurricane Irma Rainfall Totals for East Central Florida...

...Florida...

...Brevard County...

Station Name	Rainfall	Station ID	Provider
Palm Shores 4.3 NNW	13.74"	FL-BV-20	COCORAHS
Palm Bay 2.7 SSE	13.23"	FL-BV-59	COCORAHS
Cape Canaveral AFS*	12.08"	KXMR	ASOS
Melbourne Int'l Airport	11.84"	KMLB	ASOS
Melbourne WFO	11.82"	MLBF	COOP
Titusville 5.9 NNW	11.38"	FL-BV-74	COCORAHS
Ransom Rd at NASA	11.34"		SJRWMD
Titusville 3.5 NW	11.33"	FL-BV-38	COCORAHS
Palm Bay 2.6 SSE	11.10"	FL-BV-1	COCORAHS
Palm Bay STP	10.67"		SJRWMD
Palm Bay Public Works	10.52"		SJRWMD
Parrish P at Scottsmore	10.07"		SJRWMD
Palm Shores 1.4 W	10.01"	FL-BV-2	COCORAHS
Melbourne at Wickham Rd	9.99"		SJRWMD
Micco 1.3 NW	9.80"	FL-BV-28	COCORAHS
Melbourne 1.1 N	9.76"	FL-BV-6	COCORAHS
Merritt Island 5.6 NNW	9.57"	FL-BV-75	COCORAHS
Cocoa 5.1 NW	9.55"	FL-BV-78	COCORAHS
Titusville	9.53"	TITF1	COOP
Cocoa 4.6 NW	9.45"	FL-BV-85	COCORAHS
Melbourne 4.7 N	9.39"	FL-BV-50	COCORAHS
Titusville 8 ENE	9.16"	CTKF1	USGS
Melbourne Beach	9.11"	TSUF1	COOP
Merritt Island 20 N	9.11"	MRRF1	USGS

\*Last observation received from Cape Canaveral ASOS (KXMR) was at 0441 UTC September 11. Incomplete rainfall record for event.

...Indian River County...

Station Name	Rainfall	Station ID	Provider
Indian River FAWN	14.15"	IRVF1	FAWN
Vero Beach 5.3 W	12.10"	FL-IR-36	COCORAHS
Vero Beach 2.5 S	11.04"	FL-IR-27	COCORAHS
Vero Beach 3.4 W	10.61"	FL-IR-24	COCORAHS
Vero Beach 3.5 SSW	10.11"	FL-IR-26	COCORAHS
Vero Beach 1.5 WSW	10.00"	FL-IR-15	COCORAHS
Vero Beach 2.4 W	9.34"	FL-IR-6	COCORAHS
Corrigan Ranch Wabasso	9.06"		SJRWMD
S-251 at Fellsmere	8.97"		SJRWMD
Vero Beach	8.49"	VRBF1	COOP
Vero Beach Airport	8.36"		SJRWMD
Blue Cypress Lake	8.18"		SJRWMD

...Lake County...

Station Name	Rainfall	Station ID	Provider
Mt. Plymouth	11.59"	PLTF1	COOP
Lady Lake 2.0 NNW	11.26"	FL-LK-22	COCORAHS
Lady Lake 2.5 SSW	11.03"	FL-LK-16	COCORAHS
Lady Lake 1.2 ESE	10.80"	FL-LK-21	COCORAHS
Umatilla FAWN	10.49"	UMLF1	FAWN

Leesburg 2.7 NW	10.13"	FL-LK-30	COCORAHS
Pine Meadows Cons Area	10.05"		SJRWMD
Lake Harris at Leesburg	9.69"		SJRWMD
Astor Park 5 SW	9.50"	CRAF1	USGS
Okahumpka FAWN	9.38"	KHPF1	FAWN
Bugg Springs-Okahumpka	9.33"		SJRWMD
Clermont 0.4 SW	9.17"	FL-LK-10	COCORAHS
Lake Norris Wells	8.83"		SJRWMD
Lake Apopka MFW B2	8.53"		SJRWMD
Clermont	8.50"	CLRF1	COOP
Leesburg Airport	8.18"	KLEE	ASOS
Groveland 1.7 E	7.49"	FL-LK-3	COCORAHS
Astatula 1.0 E	7.08"	FL-LK-25	COCORAHS
Lisbon	7.05"	LSBF1	COOP

...Martin County...

Station Name	Rainfall	Station ID	Provider
Stuart	10.53"	STRF1	COOP
Stuart 1.0 ESE	9.08"	FL-MT-18	COCORAHS
Palm City 3.1 NW	8.52"	FL-MT-21	COCORAHS
Jensen Beach 2.2 NW	8.07"	FL-MT-19	COCORAHS
Allapattah Rest. Area	7.81"	ACRA2	SFWMD
Palm City 1.4 NW	7.68"	FL-MT-31	COCORAHS
Allapattah Ranch	6.88"	ACRAWX	SFWMD
Jupiter 4.0 NNW	6.79"	FL-MT-33	COCORAHS
J Dickinson State Park	6.70"	JDWX	SFWMD
Port Salerno	6.66"	PTSF1	COOP
Upper St. Lucie Estuary	6.27"	S-80	SFWMD
NE Lake Okeechobee	6.19"	NELF1	SFWMD
E Lake O - Port Mayaca	5.76"	PTMF1	SFWMD

...Okeechobee County...

Station Name	Rainfall	Station ID	Provider
Okeechobee Airportd	9.68"	KOBE	AWOS
Central Kissimmee River	9.23"	KSDF1	SFWMD
Basinger - Griffith	9.20"	GRFFTH	SFWMD
Okeechobee 18.0 NNW	8.88"	FL-OB-5	COCORAHS
Okeechobee Field Station	8.72"	KEFF1	SFWMD
Okeechobee FAWN	8.67"	OKSF1	FAWN
N Lake O - Taylor Creek	8.62"	TLCF1	SFWMD
Kissimmee Prairie Pres	8.47"	KPPF1	COOP
Taylor Creek - Bassett	8.20"	BSET	SFWMD
Taylor Creek Conser.	8.06"	WLNF1	SFWMD
Taylor Creek (MOBLEY6)	8.00"	OBLF1	SFWMD
Maxcy Property South	7.92"	AXCF1	SFWMD
Peavine Trail	7.29"	PEAVIN	SFWMD
Basinger	6.82"	BASING	SFWMD
Taylor Creek (OPAL 7)	6.79"	OOPF1	SFWMD
Lake O - Nubbin Slough	6.53"	NBSF1	SFWMD
S Kissimmee River	5.91"	SKRF1	SFWMD
S Kissimmee River	5.46"	SKSF1	SFWMD

...Orange County...

Station Name	Rainfall	Station ID	Provider
Christmas 2.0 N	17.44"	ORA-048	SPOTTER
Union Park 3.9 E	13.79"	FL-OR-10	COCORAHS
Union Park 1.1 E	12.36"	FL-OR-19	COCORAHS
Orange 11.2 NE	12.05"	FL-OR-23	COCORAHS
Apopka 3.5 ESE	11.80"	FL-OR-43	COCORAHS
Apopka 2.9 E	11.58"	FL-OR-16	COCORAHS

Rock Springs Wells	11.16"		SJRWMD
Apopka FAWN	11.01"	POPF1	FAWN
Lake Buena Vista	10.65"		Reedy Creek
Lake Apopka NSRA	10.65"		SJRWMD
Bay Lake 4.1 WSW	10.59"	FL-OR-35	COCORAHS
Bithlo 10 SSW	10.54"	WELF1	USGS
Orlando 4.9 N	10.51"	FL-OR-27	COCORAHS
Magic Kingdom	10.29"		Reedy Creek
Ft. Wilderness	10.21"		Reedy Creek
WDW South Service Area	10.21"		Reedy Creek
Winter Garden 2.3 SSW	9.44"	FL-OR-36	COCORAHS
Orlando 7.2 WNW	9.30"	FL-OR-33	COCORAHS
Union Park 2.9 SSE	9.29"	FL-OR-1	COCORAHS
Union Park 3.8 ES	9.28"	FL-OR-31	COCORAHS
Animal Kingdom	8.74"		Reedy Creek
Shades of Green	8.72"		Reedy Creek
Orlando 12.0 S	8.60"	FL-OR-30	COCORAHS
B. Ventura Lakes 11.0 E	8.57"	FL-OR-32	COCORAHS
Reedy Lake	8.48"	REEDY_PX	SFWMD
Lake Hiawasee-Orlovista	8.20"		SJRWMD
EPCOT	7.81"		Reedy Creek
Alafaya Trail WTP	7.77"		SJRWMD
Orlando Exec. Airport	7.76"	KORL	ASOS
Avalon FAWN	7.39"	VLNF1	FAWN
Windermere	7.35"	ORWF1	COOP
Shingle Creek	7.23"	SCGF1	SFWMD
Orlando Int`l Aiport	7.22"	KMCO	ASOS

...Osceola County...

Station Name	Rainfall	Station ID	Provider
Yeehaw Junction	12.00"		SJRWMD
Maxcy Property North	10.61"	YEHF1	SFWMD
Lake Gentry	9.86"	EXOT	SFWMD
Alligator Lake	9.81"	ALL2	SFWMD
US-192	9.53"		Reedy Creek
El Maximo Ranch-SR60	9.51"	ELMAX	SFWMD
North Kissimmee River	9.45"	KREF1	SFWMD
All-Star Resort	9.44"		Reedy Creek
Lake Tohopekaliga	9.19"	SWOF1	SFWMD
Kenansville FAWN	9.07"	KNVF1	FAWN
Kenansville	9.01"	KANF1	SFWMD
Lake Tohopekaliga	8.80"	KIRF1	SFWMD
Kenansville	8.79"	KENF1	COOP
Intercession City	8.79"	INRCTY	SFWMD
Bull Creek ATP	8.77"		SJRWMD
C-58/L73 at Kenansville	8.73"		SJRWMD
S-40	8.37		Reedy Creek
Poinciana Place 2.6 NNW	7.86"	FL-OS-1	COCORAHS
North Kissimmee River	7.81"	KSAF1	SFWMD
E Lake Tohopekaliga	7.57"	S-59	SFWMD
Lake Kissimmee Lock	7.37"	KISF1	SFWMD
Kissimmee Gateway**	7.14"	KISM	AWOS

\*\*Last observation received from Kissimmee Gateway Airport was at 0118 UTC September 11. Incomplete rainfall record for event.

... St. Lucie County...

Station Name	Rainfall	Station ID	Provider
Fort Pierce WP	21.66"	FPCF1	COOP
Fort Pierce 9.3 NNW	17.25"	FL-SL-41	COCORAHS
Fort Pierce Aiport	15.88"	KFPR	ASOS



N C St. Lucie County	15.18"	NCSF1	SFWMD
10 mile Creel	11.82"	TMWF1	SFWMD
Port St. Lucie 1.7 NNW	11.55"	FL-SL-46	COCORAHS
Port St. Lucie 4.0 NE	10.36"	FL-SL-19	COCORAHS
Central St Lucie County	9.57"	C24SE	SFWMD
Port St. Lucie 4.1 SW	9.46"	FL-SL-43	COCORAHS
St. Lucie West FAWN	9.42"	SLWF1	FAWN
West St. Lucie County	9.39"	COWCRK	SFWMD
Savannas Preserve	8.87"	SVWF1	SFWMD
Port St. Lucie 4.7 SSW	7.85"	FL-SL-45	COCORAHS
Tradition 5.6 W	7.52"	FL-SL-17	COCORAHS
S C St. Lucie County	6.94"	BLUEG	SFWMD

...Seminole County...

Station Name	Rainfall	Station ID	Provider
Lake Mary 5 WNW	12.46"	LSPF1	USGS
Oviedo 4.0 W	12.14"	FL-SM-12	COCORAHS
Oviedo 1.6 SE	12.06"	FL-SM-20	COCORAHS
Sanford	11.95"	SFNF1	COOP
Geneva 5 ESE	11.74"	GNEF1	USGS
Chuluota 0.9 N	11.22"	FL-SM-8	COCORAHS
Sanford Airport	9.89"	KSFB	ASOS
Osceola Landfill-Geneva	9.47"		SJRWMD

...Volusia County...

Station Name	Rainfall	Station ID	Provider
Mims 8.5 W	12.87"	FL-VL-49	COCORAHS
De Land 5.7 NW	11.82"	FL-VL-9	COCORAHS
De Land 2.0 W	11.53"	FL-VL-21	COCORAHS
De Land 1.4 WSW	10.18"	FL-VL-36	COCORAHS
Pierson 2 WSW	10.03"	LGRF1	USGS
Tiger Bay Road	9.76"		SJRWMD
Pierson FAWN	9.63"	EPRF1	FAWN
SR-40 at SR-11	9.23"		SJRWMD
De Land 1.3 WSW	9.21"	FL-VL-46	COCORAHS
De Land Airport***	9.16"	KDED	AWOS
Pierson 1.5 SW	8.74"	FL-VL-50	COCORAHS
Lake Winnemissett	8.53"		SJRWMD
Port Orange 2.9 WSW	8.18"	FL-VL-44	COCORAHS
Blue Springs at DeBary	7.54"		SJRWMD
Ormond Beach	7.09"		SJRWMD
Ormond Beach 3.5 SE	6.61"	FL-VL-5	COCORAHS
Daytona Beach Intl Arp.	6.57"	KDAB	ASOS
Oak Hill 2.8 WSW	5.59"	FL-VL-38	COCORAHS
Ponce Inlet	5.46"		SJRWMD
Daytona Beach	5.35"	DIAF1	COOP
Edgewater 0.1 SW	5.09"	FL-VL-40	COCORAHS
Dayt Bch Shores 1.8 SSE	4.43"	FL-VL-42	COCORAHS

\*\*\*Last observation received from De Land Municipal Airport (KDED) was at 0415 UTC Sept 11. Incomplete rainfall record for event.

Observations are collected from a variety of sources with varying equipment and exposures. We thank all volunteer weather observers for their dedication. Not all data listed are considered official.

## **Storm Surge**

*Time is in Local Standard Time (LST). To retain Eastern Daylight Time (EDT) add 1 hour to LST.*

### **Brevard County...**

As Hurricane Irma moved northward over west-central Florida, the Brevard County beaches experienced moderate to major erosion and wave run-up due to an estimated 2-4 foot storm surge. Similar water level rises occurred within the Indian River Lagoon, which combined with wave action to produce areas of moderate to major damage to docks and boathouses, primarily along the western shores of the rivers.

### **Indian River...**

As Hurricane Irma moved northward over west-central Florida, the Indian River County beaches experienced moderate to major erosion and wave run-up due to an estimated 2-3 foot storm surge. Similar water level rises occurred within the intracoastal waterway, which combined with wave action to produce mostly minor damage to docks, primarily along the western shores of the river.

### **Martin County...**

As Hurricane Irma moved northward over west-central Florida, the Martin County beaches experienced moderate to major erosion and wave run-up due to an estimated 2-3 foot storm surge. Similar water level rises occurred within the intracoastal waterway, which combined with wave action to produce mostly minor damage to docks, primarily along the western shores of the river.

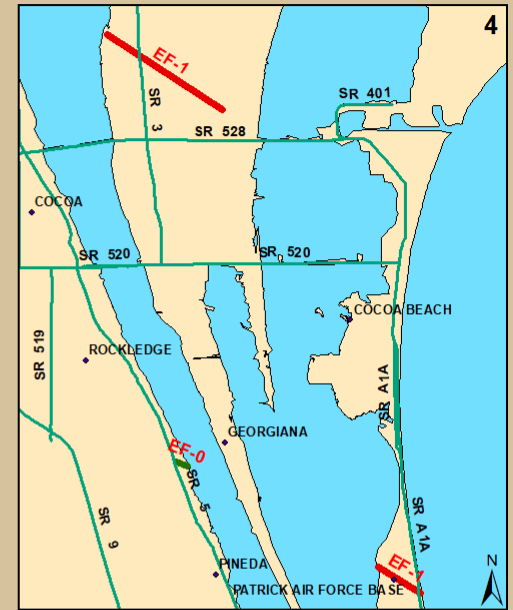
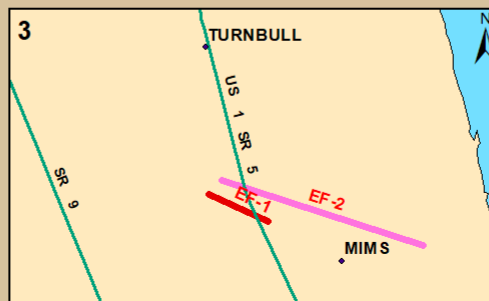
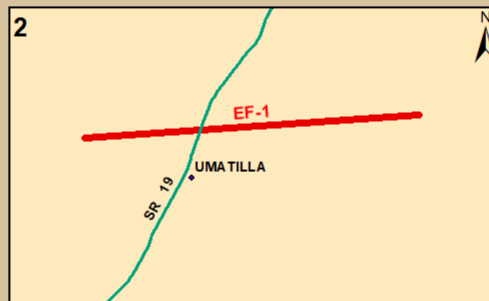
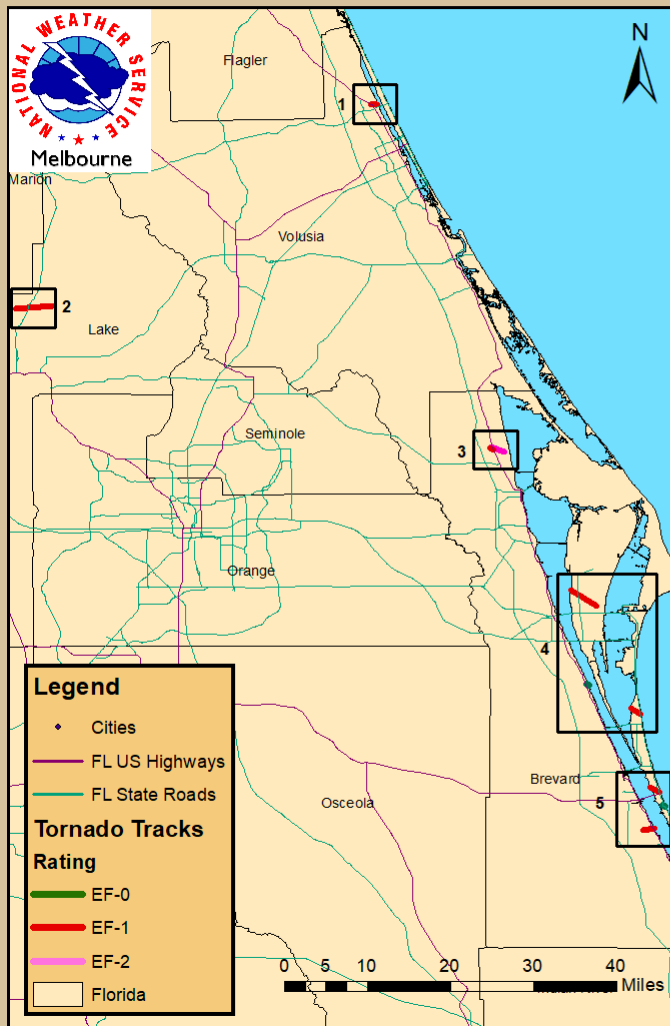
### **Saint Lucie County...**

As Hurricane Irma moved northward over west-central Florida, the St. Lucie County beaches experienced moderate to major erosion and wave run-up due to an estimated 2-3 foot storm surge. Similar water level rises occurred within the intracoastal waterway, which combined with wave action to produce mostly minor damage to docks, primarily along the western shores of the river.

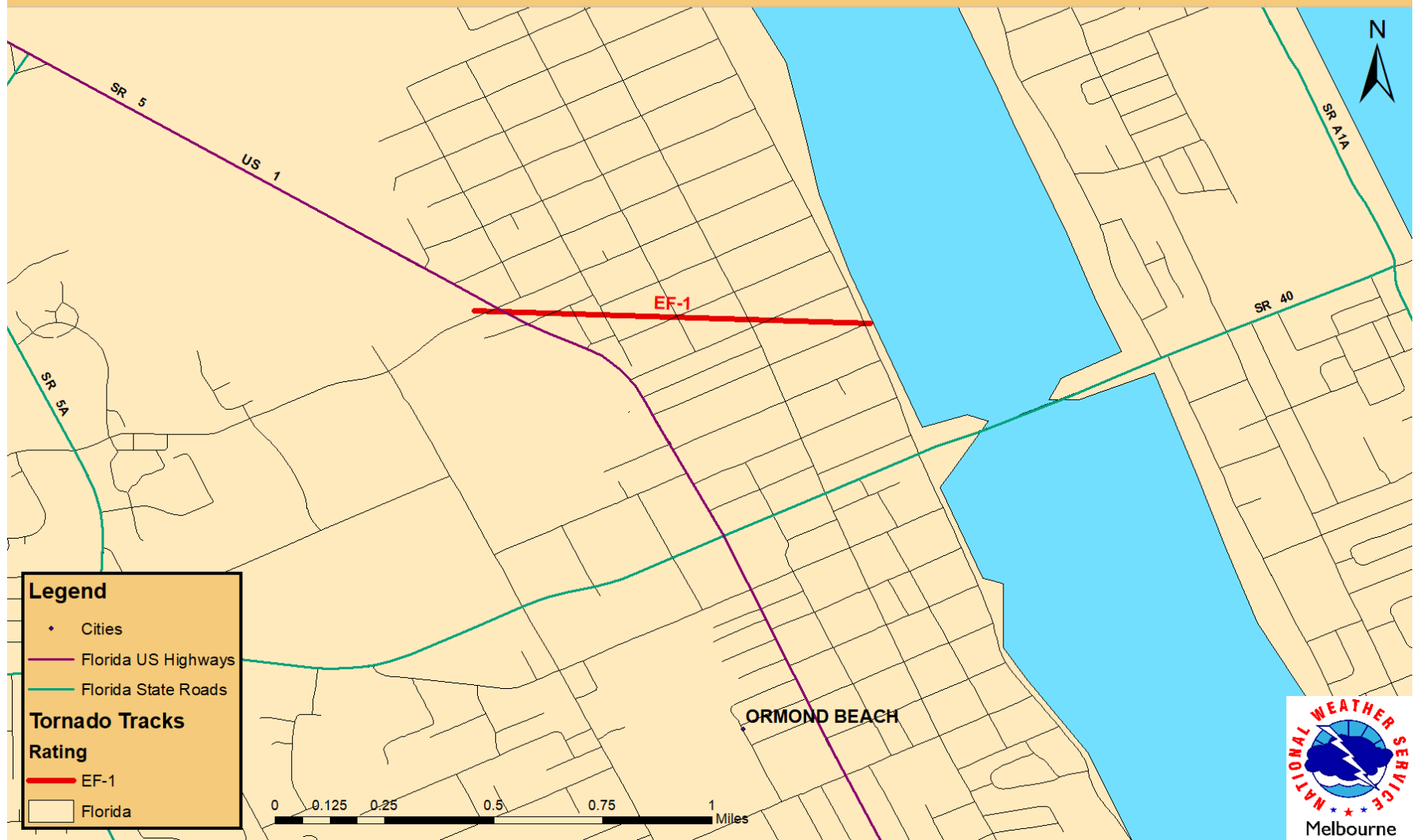
### **Volusia County...**

As Hurricane Irma moved northward over west-central Florida, the Volusia County beaches experienced moderate to major erosion and wave run-up due to an estimated 3-4 foot storm surge. Similar water level rises occurred within the Indian River Lagoon, which combined with wave action to produce areas of moderate to major damage to docks and boathouses, primarily along the western shores of the rivers.

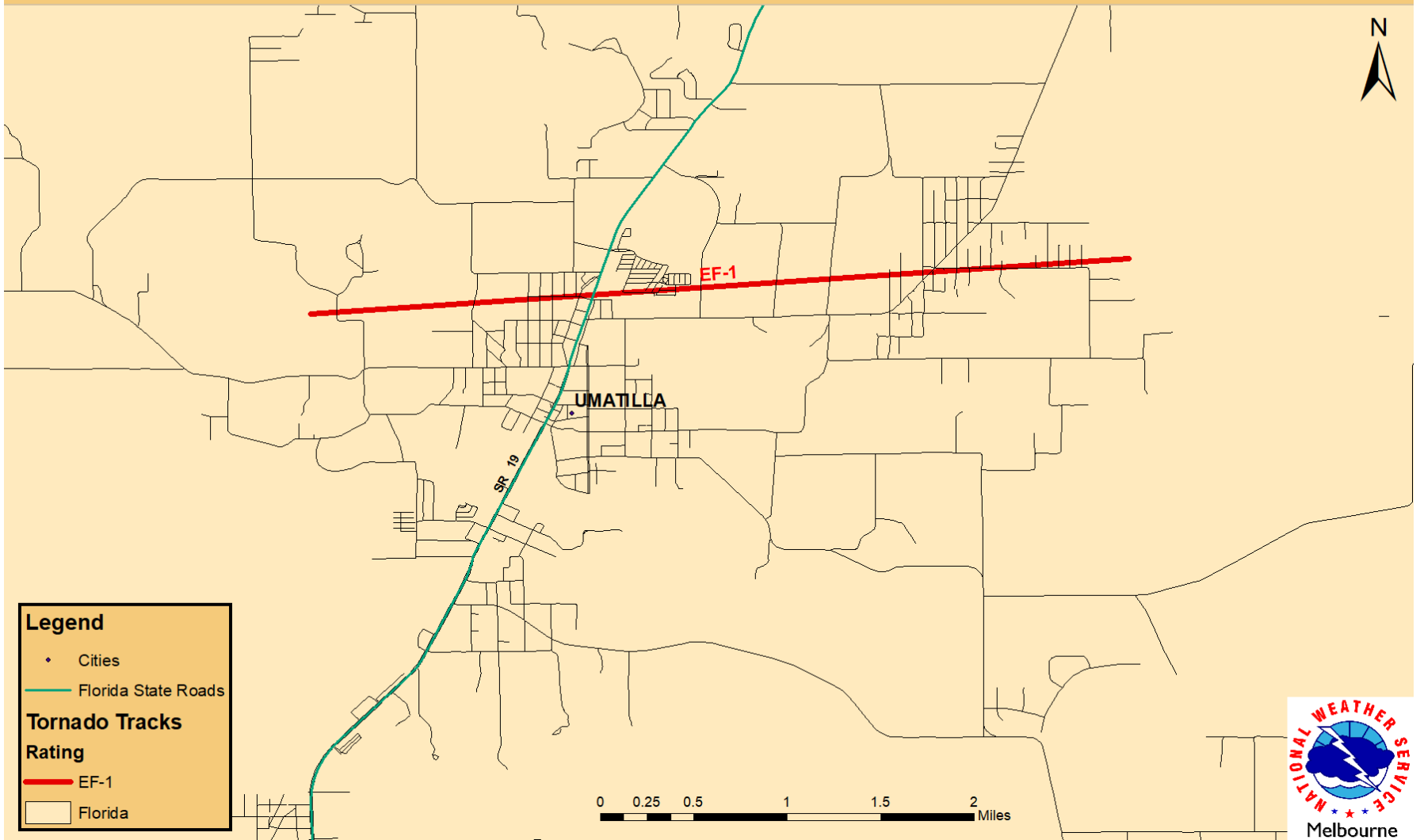
# Hurricane Irma Tornado Tracks in East Central Florida



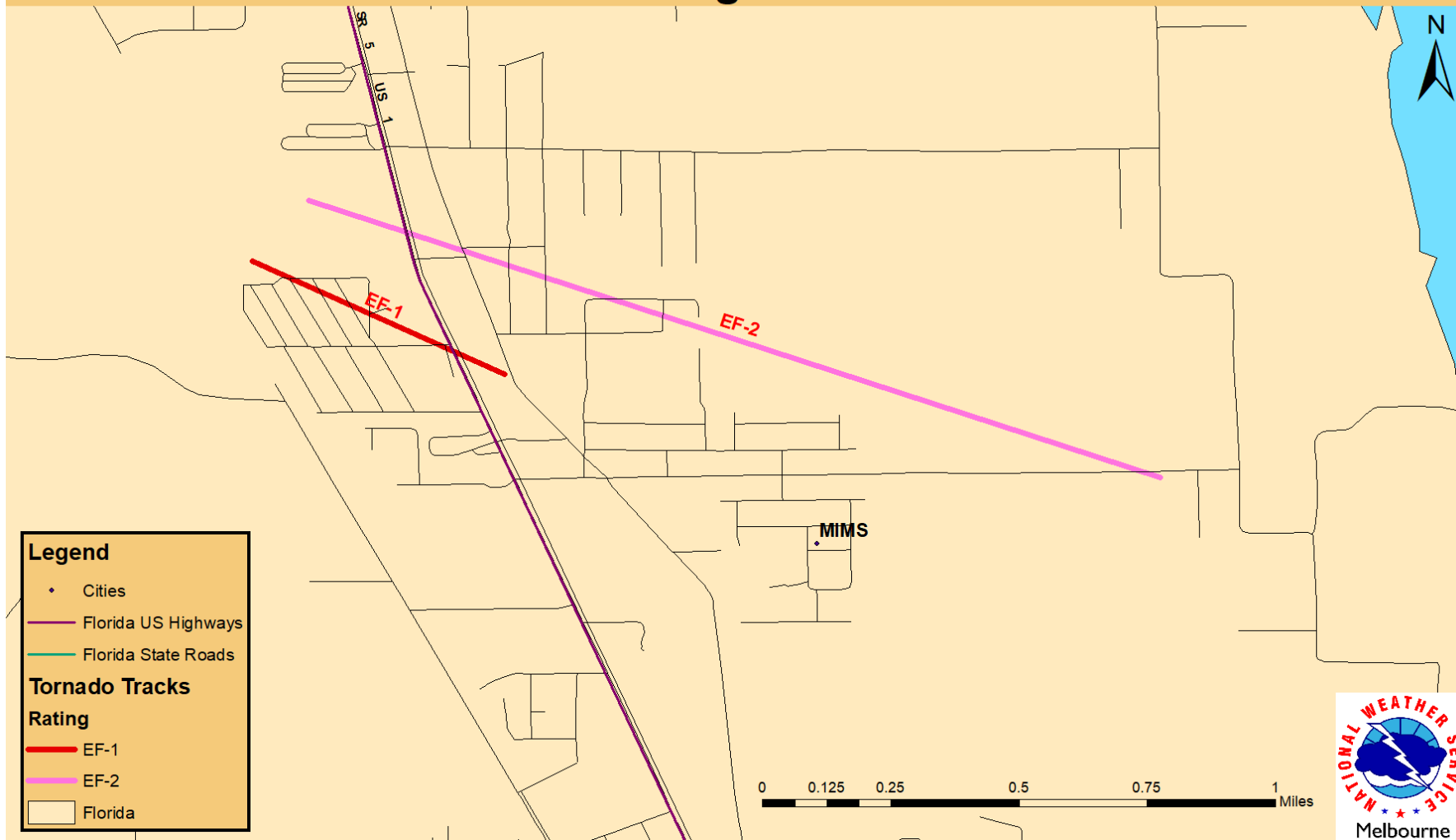
# Hurricane Irma Tornado Tracks: Ormond Beach



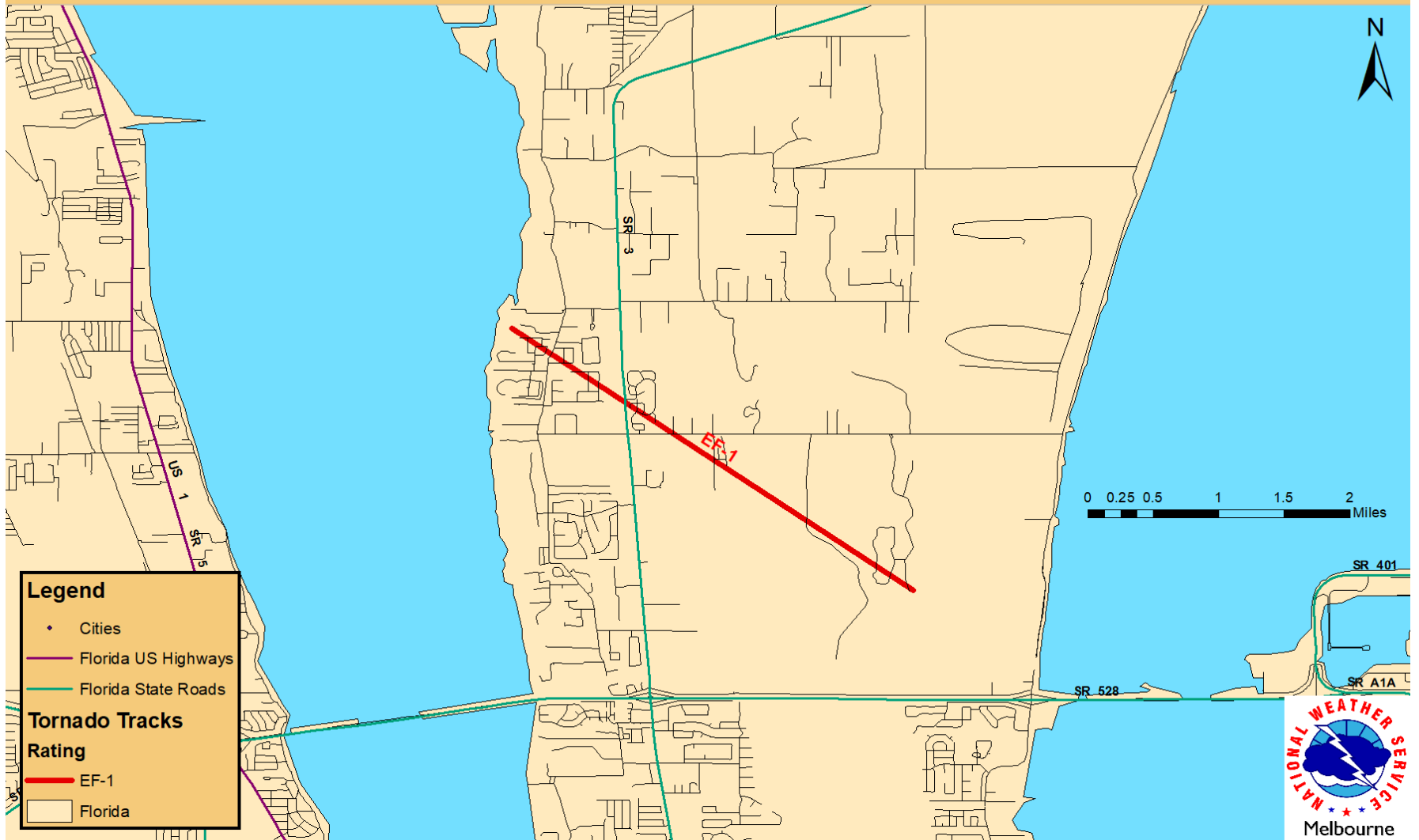
# Hurricane Irma Tornado Tracks: Umatilla



# Hurricane Irma Tornado Tracks: Mims Kilbee Street & Northgate Mobile Home Park



# Hurricane Irma Tornado Tracks: Merritt Island



# Hurricane Irma Tornado Tracks: Central Brevard Rockledge & Patrick Air Force Base





# Hurricane Irma Tornado Tracks: Southern Brevard Indialantic, Melbourne Beach, & Turkey Creek

