



# National Weather Service Melbourne, Florida

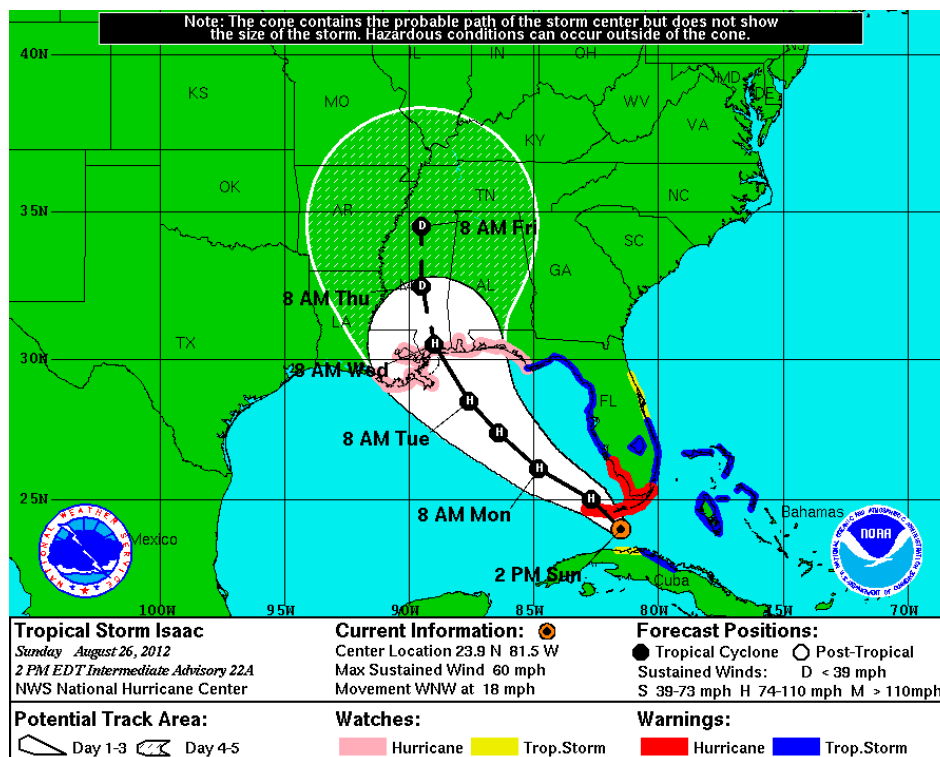
<http://www.srh.noaa.gov/mlb/>

**NOTE: This preliminary document will be updated as more information becomes available.**

## Tropical Cyclone Isaac brings flooding rainfall and a tornado to East Central Florida

August 25-27, 2012

Tropical Storm Isaac formed in the Atlantic late on August 21<sup>st</sup>, 2012 as it approached the Leeward Islands. The storm continued on a westward path into the Caribbean, before turning northwest across western Haiti and eastern Cuba and passing to the west of Key West, Florida as it moved into the Gulf of Mexico. Isaac produced some marine impacts on August 25<sup>th</sup>, but the greatest impacts to East Central Florida occurred Sunday and Monday, August 26<sup>th</sup> and 27<sup>th</sup>. Isaac continued northwest over the Gulf of Mexico, becoming a category 1 hurricane early on August 28<sup>th</sup>, before making landfall along the Louisiana coast that evening.



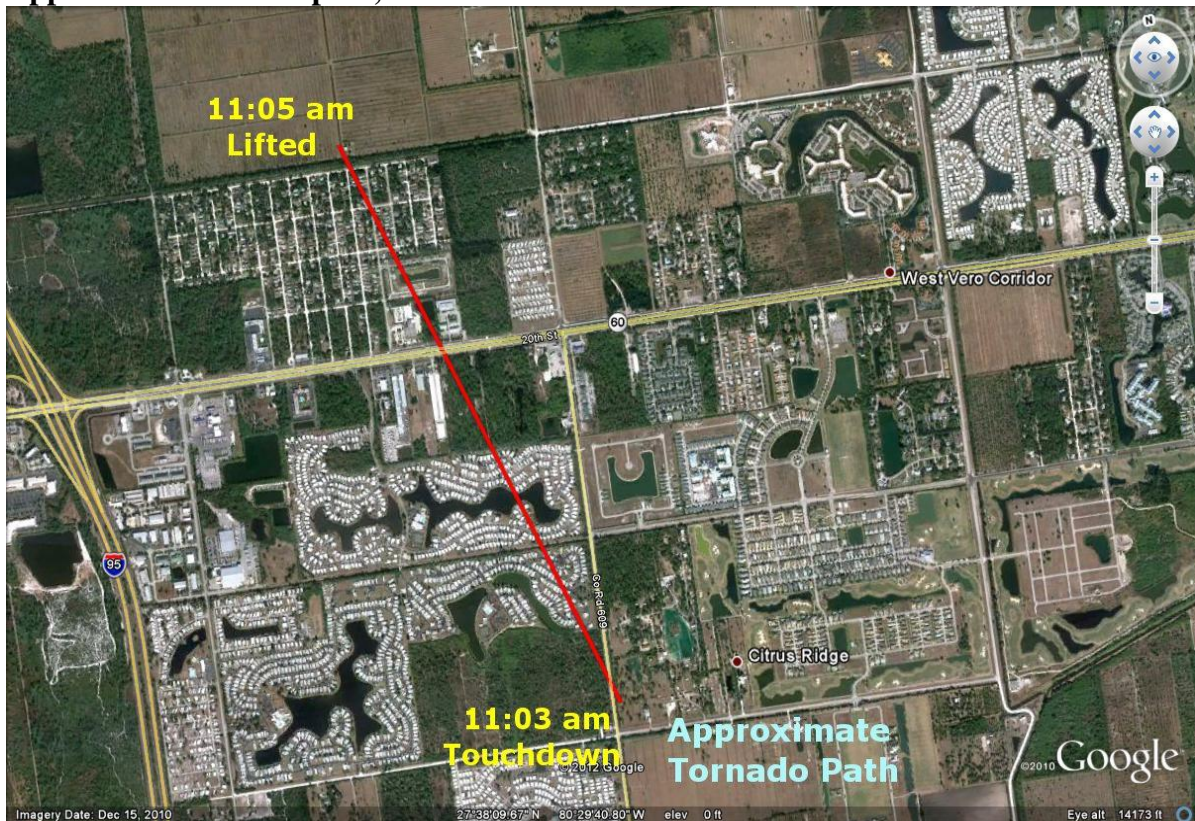
## Tornado Damage:

A tornado touchdown occurred the morning of Monday August 27<sup>th</sup>, when East Central Florida was in an environment conducive to tornado formation that existed to the east of Isaac as it moved northwest in the eastern Gulf of Mexico.

## Tornado Survey Summary:

In Indian River County, a tornado touched down at 11:03 am EDT the morning of Monday August 27<sup>th</sup>. The tornado was determined to be an EF-0, with maximum winds of 80 to 85 mph. The tornado produced a discontinuous damage path, producing major damage to 33 structures and minor damage to 62 structures. The tornado was on the ground for two minutes, lifting at 11:05 am EDT.

### Approximate tornado path, east of I-95 near SR-60:





Some photos from the Indian River County tornado survey follow:



# Rainfall:

The heaviest rainfall due to Isaac occurred over the southern sections of East Central Florida, with moderate flooding and temporary closure of several roadways occurring over Martin, St. Lucie, Indian River and Okeechobee counties. Some of the highest rainfall totals from Isaac include:

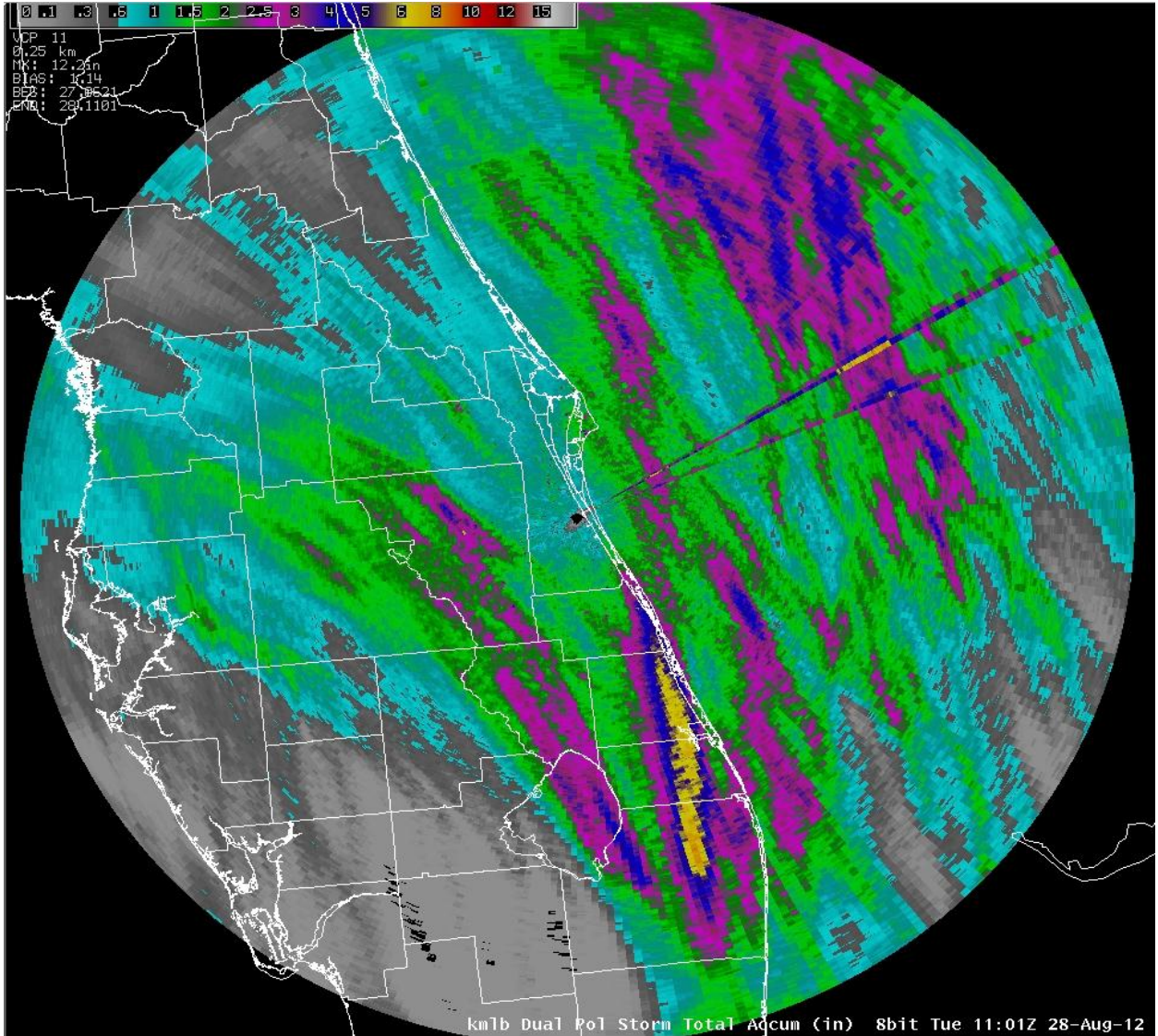
## STORM TOTAL RAINFALL FROM 1200 UTC AUG 26 UNTIL 1200 UTC AUG 28

CITY/TOWN LAT LON DEG DECIMAL	COUNTY	ID	RAINFALL (IN)
5.2 S VERO BEACH 27.56 -80.39	INDIAN RIVER	FL-IR-32	16.50
1 W WHITE CITY 27.37 -80.34	ST. LUCIE	WHITE2	14.00
1 NW GROVENOR ESTATES 27.59 -80.44	INDIAN RIVER	VEROB1	13.54
3 S WHISPERING PINES 27.24 -80.84	OKEECHOBEE	OKEEC1	13.45
2 NE PORT SAINT LUCIE 27.29 -80.34	ST. LUCIE	FL-SL-29	13.02
4 WNW PALM CITY 27.20 -80.33	MARTIN	PALMC20	12.33
2 N PORT SAINT LUCIE 27.31 -80.36	ST. LUCIE	FL-SL-22	12.18
4.0 SW PALM CITY 27.12 -80.31	MARTIN	FL-MT-1	11.60
1 WSW WALTON 27.29 -80.28	ST. LUCIE	PORTS41	10.73
2.8 SSE FORT PIERCE 27.40 -80.31	ST. LUCIE	FL-SL-11	10.41
2 SSE SAINT LUCIE WEST 27.29 -80.39	ST. LUCIE	PORTS11	10.39
3 S INDIAN RIVER ESTATES 27.32 -80.31	ST. LUCIE	FL-SL-19	10.25
2 SSW PORT SAINT LUCIE 27.24 -80.37	ST. LUCIE	FL-SL-13	9.96
6 W STUART 27.19 -80.34	MARTIN	TPKF1	9.73
1 SSE LAKEWOOD PARK 27.53 -80.39	ST. LUCIE	FL-SL-4	9.72
5 S PALM CITY 27.09 -80.28	MARTIN	FL-MT-17	9.70
VERO BEACH HIGHLANDS 27.55 -80.39	INDIAN RIVER	FL-IR-29	9.59
FORT PIERCE 27.44 -80.32	ST. LUCIE	FPCF1	9.56
1 ESE VERO BEACH SOUTH 27.61 -80.39	INDIAN RIVER	FL-IR-27	9.54
2 E PORT SAINT LUCIE 27.28 -80.33	ST. LUCIE	PORTS1	9.47
4 WSW PALM CITY 27.16 -80.33	MARTIN	PALMC22	9.34
5 S PALM CITY 27.09 -80.27	MARTIN	PTSF1	9.33
3 W COUNTRY HILLS ESTATE 27.36 -80.87	OKEECHOBEE	TACF1	9.23



# Rainfall (contd):

The following shows dual-pol rainfall estimated rainfall for the period 0621Z (2:21 am EDT) Monday, 8/27 to 1101Z (7:01 am EDT) Tuesday, 8/28.



## Highest Winds and Lowest Sea Level Pressure:

### 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	1011.3	27/2053	040/017	26/1635	030/026	26/1544
KFPR-FORT PIERCE/ST LUCIE CO INTL, FL							
27.49	-80.36	1009.2	27/0653	170/026	27/1455	160/041	27/1454
KLEE-LEESBURG INTL, FL							
28.82	-81.80	1009.4	27/2053	140/022	27/1011	150/033	27/1008
KMCO-ORLANDO INTERNATIONAL, FL							
28.42	-81.31	1009.7	27/2053	120/018	27/0925	150/029	27/0908
KORL-ORLANDO EXECUTIVE, FL							
28.54	-81.33	1000.0	27/1653	160/022	27/1550	130/045	27/1549
KSFB-ORLANDO/SANFORD, FL							
28.77	-81.24	1010.0	27/2053	150/018	27/0953	130/029	27/0351
KVRB-VERO BEACH, FL							
27.65	-80.41	1009.9	27/0653	140/024	27/0748	140/039	27/0744
KOBE-OKEECHOBEE COUNTY AP, FL							
27.26	-80.85	0.0 /		130/016	27/1835	130/025	27/1835
KCOF-PATRICK AFB/COCOA, FL							
28.23	-80.60	1011.2	27/2055	160/026	27/1621	130/035	27/1227
KSUA-WITHAM FIELD/STUART, FL							
27.18	-80.22	0.0 /		150/018	27/2047	140/031	27/1447
KMLB-MELBOURNE INTL, FL							
28.10	-80.64	1010.0	27/0653	130/019	27/1553	140/041	27/0825
KTIX-SPACE COAST REGIONAL/TITUSVILLE, FL							
28.51	-80.79	0.0 /		060/018	26/1447	060/026	26/1447
KISM-KISSIMMEE GATEWAY AP							
28.29	-81.43	0.0 /		080/018	26/1850	110/024	27/1450
KXMR-CAPE CANAVERAL AFS SKID STRIP							
28.46	-80.56	1011.1	27/2055	180/025	27/1755	160/034	27/1258
KDED-DELAND MUNICIPAL AIRPORT							
29.06	-81.28	0.0 /		180/013	28/1315	180/019	28/1315
KTTS-SHUTTLE LANDING FACILITY							
28.61	-80.69	1011.2	27/2039	150/021	27/1655	150/032	27/1259

### NON-METAR AND 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)
-----							
USAF TOWER 001							
28.43	-80.57			I ---/---	--/----	I 140/048	27/1240
USAF TOWER 003							
28.46	-80.53			I 170/032	27/1255	---/---	--/---- I
TRDF1-TRIDENT PIER							
28.41	-80.59	1011.5	27/2212	160/016	27/2306	120/025	27/2236

Last update: 8/29/12 PG