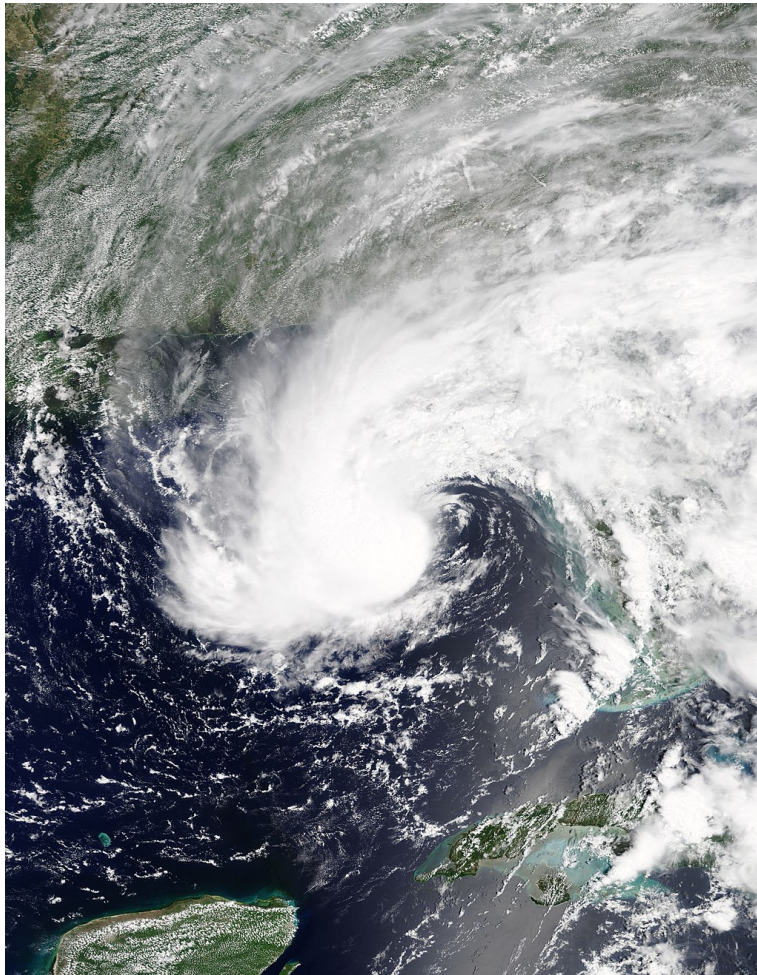




FloridaClimateCenter
Office of the State Climatologist

***Sub-Tropical Storm Alberto: Florida's First May Tropical-Cyclone
Landfall Since 2012***

*Prepared by Daniel J. Brouillette (dbrouillette@coaps.fsu.edu)
Florida Climate Center, Center for Ocean-Atmospheric Prediction Studies
The Florida State University
21 June 2018*



GOES-16 visible-satellite imagery of Alberto approaching the Florida panhandle on 27 May. Courtesy: NASA.

General Overview

Sub-Tropical Storm Alberto was the first named tropical cyclone of the 2018 Atlantic hurricane season, forming before that season officially started on 1 June. It was also Florida's first (sub-)tropical-cyclone landfall of 2018. It had a rather protracted history in the Gulf of Mexico and then over land (Figure 1).

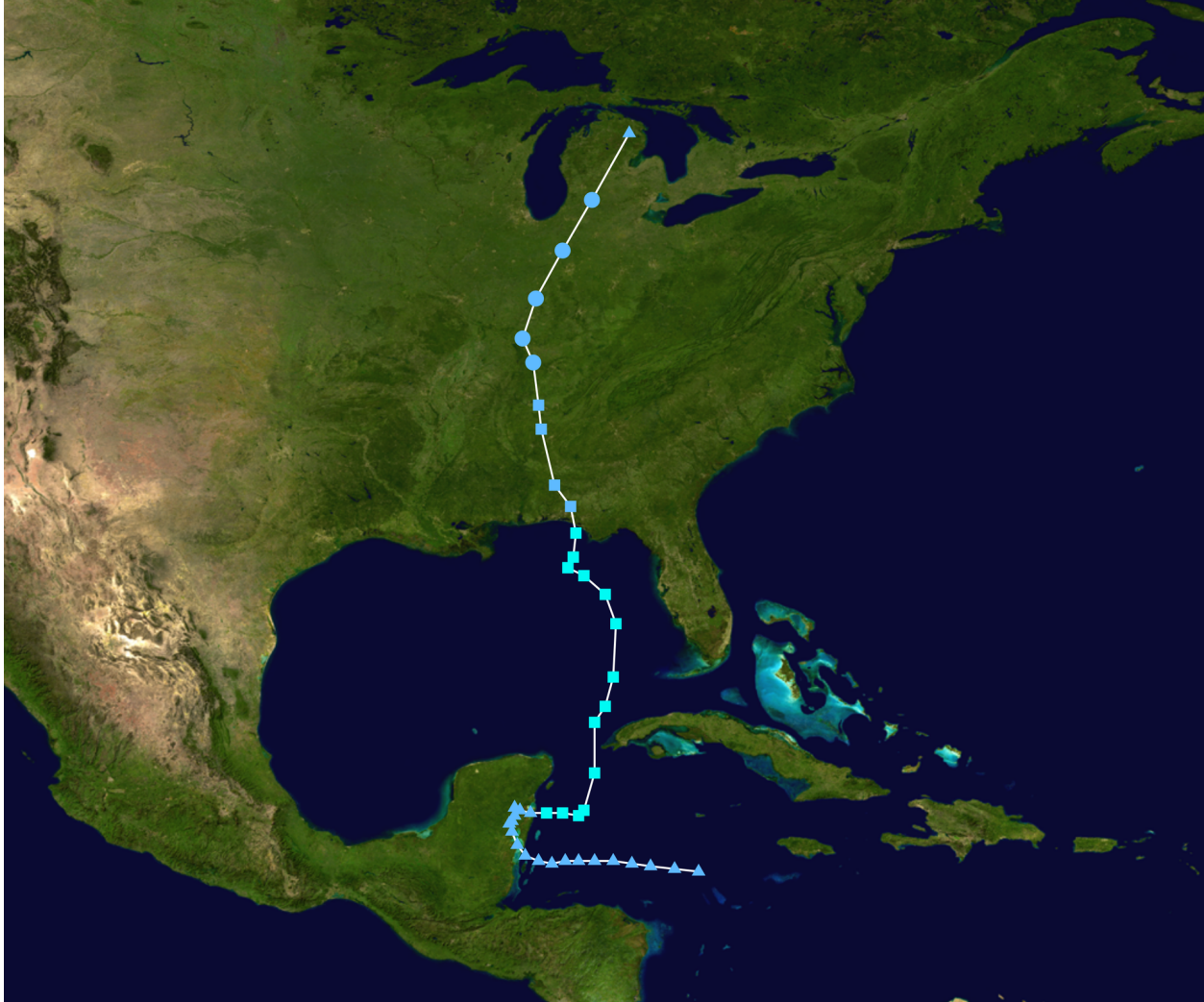


Figure 1: Mapping shows the track of Alberto.

Early on 21 May, forecasters at the National Hurricane Center (NHC) began monitoring a broad area of low pressure that had formed over the western Caribbean Sea from an interaction between an upper-level low and surface trough of low pressure. In the next few days after this formation, this broad low-pressure area began to organize gradually off the coast of the Yucatan Peninsula, but organization was impeded by strong wind shear and dry air. Despite those impediments, the entity became organized enough that, at 1500 UTC on 25 May, NHC forecasters christened it Sub-Tropical Storm Alberto. Note that the NHC Glossary defines *sub-tropical cyclone* as follows:

A non-frontal low-pressure system that has characteristics of both tropical and extratropical cyclones. Like tropical cyclones, they are non-frontal, synoptic-scale cyclones that originate over tropical or subtropical waters, and have a closed surface wind circulation about a well-defined

center. In addition, they have organized moderate to deep convection, but lack a central dense overcast. Unlike tropical cyclones, subtropical cyclones derive a significant proportion of their energy from baroclinic sources, and are generally clod-core in the upper troposphere, often being associated with an upper-level low or trough. In comparison to tropical cyclones, these systems generally have a radius of maximum winds occurring relatively far from the center (usually greater than 60 n mi), and generally have a less symmetric wind field and distribution of convection.

Indeed, at this time, Alberto had multiple low-level circulations that were interacting with the aforementioned upper-level trough.

By 26 May, Alberto's center of circulation had reformed under the primary area of convection in the Gulf of Mexico, northeast from the previous weak circulation in the Caribbean Sea, thus becoming better organized. By this time, Alberto was paralleling the Florida western coast, accompanied by a band of thunderstorms that stretched along the Florida western coast southward to Cuba. Early on 28 May, instrumentation deployed from Hurricane Hunter reconnaissance aircraft indicated maximum sustained winds of 65 miles per hour, which represented Alberto's peak intensity. Dry air continued to intrude into Alberto so that it never transitioned to a fully tropical storm and that, rather, it weakened before making landfall at 2100 UTC on 28 May near Laguna Beach, Bay County (just west of Panama City Beach), with maximum sustained winds of 45 miles per hour.

After landfall, Alberto remained an entity for quite some time. At 0900 UTC on 29 May, it was downgraded to a sub-tropical depression as it tracked inland over Alabama. Owing to a very moist boundary layer and soils, effectively a "brown ocean", the storm was reclassified as a tropical depression at 0300 UTC on 30 May while it was centered over west Tennessee. Thereafter, it generally tracked northward across Kentucky, Indiana, and lower Michigan, picking up forward speed with time. Early on 31 May, it was downgraded to a post-tropical cyclone while centered over northeastern lower Michigan, about to enter Lake Huron.

Following is a list of superlative facts about Alberto:

- It was the first tropical/sub-tropical cyclone to enter the Gulf of Mexico in the month of May since 1976. (The sub-tropical cyclone that did in 1976 was named "One".)
- It was the most intense tropical cyclone in the Atlantic basin, in terms of pressure, in the month of May since Hurricane Able in 1951. Alberto's minimum pressure was 990 mb (29.23 inHg).
- Forming at 19.3°N latitude, it was the second-most southern-forming sub-tropical cyclone on record in the Atlantic basin after Sub-Tropical Storm Olga in 2007.
- It was only the 11th storm in the observational record to reach Lake Huron as a tropical depression. Out of those 11 storms, it was the earliest in the year to do so.

Impacts on Florida

The impacts of Sub-Tropical Storm Alberto on Florida mostly were minor and generally restricted to the western coast and portions of the Panhandle. They included moderate rainfall amounts with some minor urban flooding, minor wind damage, and minor storm surge. No tornadoes were reported.

The main significance of Alberto’s rainfall is that it contributed to a record-wet May (since 1895) for Florida. Indeed, the statewide mean total for May 2018 was 9.23”, eclipsing the 8.91” recorded in May 2009. Because of the prevailing rainy season, which brings rainfall driven by sea-breeze boundaries nearly every day to some or many portions of state, and the presence of an upper-level trough of low pressure of the region that had been enhancing rainfall, it was difficult to pinpoint the period of time in which rainfall can be attributed to Alberto only. Based on an analysis of Doppler radar archives and rainfall records, it was decided to consider the period from approximately 7:00 AM EDT on 27 May to approximately 7:00 AM EDT on 29 May. In the following table are rainfall totals from stations in various networks; only those totals that exceed 2.50” are included.

LOCATION	COUNTY	RAINFALL TOTAL (inches)	OBSERVATION NETWORK
Niceville 3.4 ESE	Okaloosa	5.63	CoCoRaHS
DeFuniak Springs 3.6 NW	Walton	5.38	CoCoRaHS
Niceville 2.3 SE	Okaloosa	4.91	CoCoRaHS
Stuart	Martin	4.68	AWOS
Crestview	Okaloosa	4.14	ASOS
Niceville 2.1 SE	Okaloosa	4.14	CoCoRaHS
De Funiak Springs 5.3 NW	Walton	4.13	CoCoRaHS
Perry 2.0 S	Taylor	4.09	CoCoRaHS
Jensen Beach 1.5 N	Martin	4.07	CoCoRaHS
Lamont 7.7 SW	Jefferson	4.04	CoCoRaHS
Jensen Beach 1.4 N	Martin	3.94	CoCoRaHS
Niceville 4.5 SE	Okaloosa	3.92	CoCoRaHS
Monticello 2.9 WSW	Jefferson	3.85	CoCoRaHS
Nettles Island	St. Lucie	3.77	NWS COOP
Monticello 4.3 ENE	Jefferson	3.66	CoCoRaHS
Orange Park 0.7 NNE	Clay	3.61	CoCoRaHS
Palm City 1.4 NW	Martin	3.58	CoCoRaHS
Niceville 3.6 SE	Okaloosa	3.58	CoCoRaHS
Tallahassee 6.2 E	Leon	3.57	CoCoRaHS
Port Salerno 5 W	Martin	3.55	NWS COOP
Tallahassee 10.4 SSE	Leon	3.54	CoCoRaHS
Stuart 1.0 ESE	Martin	3.54	CoCoRaHS
Eglin Afb 5.6 NE	Okaloosa	3.54	CoCoRaHS
Panama City Beach 0.3 SW	Bay	3.4	CoCoRaHS
Inlet Beach 0.7 E	Walton	3.31	CoCoRaHS
Perry	Taylor	3.28	AWOS
Monticello 9.8 SW	Jefferson	3.2	CoCoRaHS
Monticello 10 SW	Jefferson	3.2	NWS COOP

Miramar Beach 9.5 ESE	Walton	3.2	CoCoRaHS
Stuart 6.9 SSW	Martin	3.15	CoCoRaHS
Palm City 4.0 SW	Martin	3.11	CoCoRaHS
Union Park 3.8 ENE	Orange	3.1	CoCoRaHS
Vernon 10.6 WSW	Washington	3.06	CoCoRaHS
Wacissa 1.1 SW	Jefferson	3.03	CoCoRaHS
Crestview 1.9 SE	Okaloosa	3.02	CoCoRaHS
Stuart 8.4 S	Martin	3.01	CoCoRaHS
Sunny Hills 3.3 N	Washington	2.96	CoCoRaHS
Jacksonville 5.9 SW	Duval	2.91	CoCoRaHS
Midway 6.9 SW	Leon	2.87	CoCoRaHS
Panama City Beach 1.2 ESE	Bay	2.8	CoCoRaHS
Ocala Weather Service	Martin	2.78	CoCoRaHS
Jensen Beach 2.2 NW	Martin	2.78	CoCoRaHS
Jacksonville 7.3 SW	Duval	2.77	CoCoRaHS
Lynn Haven 1.6 SSE	Bay	2.75	CoCoRaHS
Live Oak 5.1 SSE	Suwannee	2.75	CoCoRaHS
Tallahassee 14.2 NE	Leon	2.74	CoCoRaHS
Mary Esther 0.6 E	Okaloosa	2.72	CoCoRaHS
Crawfordville 1.0 S	Wakulla	2.72	CoCoRaHS
Brooker 6.6 SSE	Alachua	2.69	CoCoRaHS
Tallahassee 3.1 NW	Leon	2.69	CoCoRaHS
Port St. Lucie 2.4 SSW	St. Lucie	2.63	CoCoRaHS
Hedges 0.3 ESE	Nassau	2.6	CoCoRaHS
Jacksonville Int'l Airport	Duval	2.57	ASOS
Cross City 1 E	Dixie	2.54	NWS COOP
Shalimar 1.0 N	Okaloosa	2.52	CoCoRaHS
Orange Park 2.5 WSW	Clay	2.51	CoCoRaHS
Tallahassee 4.8 ESE	Leon	2.51	CoCoRaHS
Orange Park 4.1 WSW	Clay	2.5	CoCoRaHS
Wewahitchka	Gulf	2.5	NWS COOP

The following plot shows total rainfall from 27 to 29 May (Figure 2).

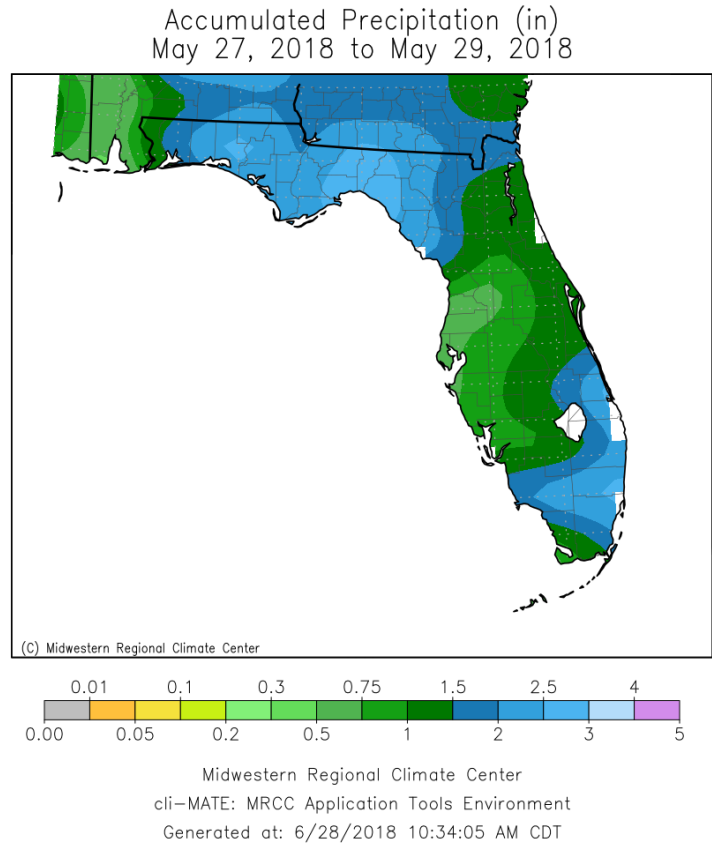


Figure 2: Plot of rainfall total, approximating the storm total for Alberto (see text), from 27 to 29 May.

Wind gusts were as high as 59 miles per hour near St. George Island and at the Tyndall Air Force Base. Damage from wind gusts mostly was minor and included some fallen trees and tree limbs from the Big Bend westward to the eastern portion of the Emerald Coast (i.e., generally east of the landfall location) and the loss of power to 9000 customers of the City of Tallahassee’s municipal utility. Following is a table of maximum wind gusts exceeding 35 miles per hour.

LOCATION	COUNTY	MAX. WIND GUST (miles per hour)	OBSERVATION NETWORK
St. George Island Bridge	Franklin	59	WeatherSTEM
Tyndall AFB	Bay	59	ASOS
Apalachicola Airport	Franklin	49	ASOS
Shell Point	Wakulla	48	WeatherSTEM

Panama City Int'l Airport	Bay	47	ASOS
Port St. Joe - Gulf County EOC	Gulf	45	WeatherSTEM
St. Teresa - FSU Coastal and Marine Lab	Franklin	45	WeatherSTEM
Panama City - FSU branch campus	Bay	43	WeatherSTEM
Destin/Fort Walton Beach Airport	Walton	41	METAR
Holmes County Airport	Holmes	41	AWOS
Cross City	Dixie	39	AWOS
St. Petersburg/Clearwater Airport	Pinellas	39	ASOS
Tallahassee	Leon	38	ASOS
Port St. Joe - Port St. Joe Elementary School	Gulf	38	WeatherSTEM
Vicksburg - Deane Bozeman School	Bay	38	WeatherSTEM
Crawfordville - Wakulla County High School	Wakulla	38	WeatherSTEM
St. Petersburg - Albert Whitted Field	Pinellas	36	ASOS

A storm surge was observed along much of the Big Bend and Forgotten Coast but was generally small, measuring generally less than one foot.

No tornadoes were observed.

Supplemental Links

Doppler radar loop of Alberto covering the Southeastern United States, courtesy of Brian McNoldy, Rosenstiel School of Marine and Atmospheric Science, University of Miami: http://andrew.rsmas.miami.edu/bmcnoldy/tropics/alberto18/Alberto_28-29May18_southeast.gif

A more detailed discussion of Alberto's classification as 'sub-tropical' from Dr. Marshall Shepherd, Professor of Atmospheric Science at the University of Georgia: <https://www.forbes.com/sites/marshallshepherd/2018/05/27/5-facts-or-clarifications-about-subtropical-storm-alberto-the-day-before-landfall/#41fc8f4371a3>

Appendix A – Post-Tropical Cyclone Report – NWS Tallahassee

445

ACUS72 KTAE 011632

PSHTAE

POST TROPICAL CYCLONE REPORT...SUBTROPICAL STORM ALBERTO

NATIONAL WEATHER SERVICE - TALLAHASSEE FL

1231 PM EDT FRI JUN 1 2018

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 ALBERTO
OR ITS REMNANTS WAS AFFECTING THE AREA.

COUNTIES INCLUDED...BAY...CALHOUN, FL...COFFEE...DALE...DIXIE...
FRANKLIN...GENEVA...GULF...HOLMES...HOUSTON...JACKSON...JEFFERSON...
LAFAYETTE...LIBERTY...TAYLOR...WAKULLA...WALTON...WASHINGTON...
LEON

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)

KCTY-CROSS CITY, FL

29.62 -83.10 9999.0 / 170/020 28/1935 180/034 28/1635

KAAF-APALACHICOLA MUNI, FL

29.72 -85.03 1000.5 28/1553 170/032 28/1812 170/043 28/1711

K40J-PERRY-FOLEY, FL

30.07 -83.57 9999.0 / 170/020 28/2015 190/028 28/2055

KECP-PANAMA CITY NW, FL

30.35 -85.80 995.4 28/2053 100/025 28/2001 100/041 28/2004

KTLH-TALLAHASSEE RGNL, FL

30.40 -84.35 1000.0 29/0453 150/020 28/2153 130/033 28/1742

KPAM-TYNDALL AFB, FL

30.07 -85.59 996.2 28/1811 150/031 28/1836 150/051 28/1932

KDTS-DESTIN/FT WALTON BEACH ARPT, FL

30.40 -86.47 997.0 28/2053 350/022 28/1902 350/036 28/2005

KMAI-MARIANA, FL

30.80 -85.21 1000.3 28/2153 050/021 28/2045 130/027 28/2153

KOZR-FT RUCKER/CAIRNS, AL

31.29 -85.72 999.3 28/2325 060/020 28/2106 040/028 28/2034

KDHN-DOTHAN, AL

31.32 -85.45 1001.5 28/2353 080/021 28/1630 090/031 28/1637

K1JO-HOLMES COUNTY, FL

30.85 -85.60 994.3 28/2258 040/019 28/1903 040/036 28/1903

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)

FRANKLIN COUNTY SCHOOL WEATHERSTEM

29.76 -84.82 1000.4 28/1200 234/021 28/1500 255/029 28/1600

FSU COASTAL AND MARINE LAB WEATHERSTEM

29.91 -84.51 1002.4 28/1900 140/036 28/1800 157/039 28/1900

ST GEORGE ISLAND BRIDGE WEATHERSTEM

29.69 -84.89 1003.7 28/1500 144/044 28/1500 159/051 28/1600

GULF COUNTY EOC WEATHERSTEM

29.81 -85.29 997.8 28/1800 221/035 28/1900 166/039 28/1600

PORT ST JOE ELEMENTARY SCHOOL WEATHERSTEM

29.79 -85.29 997.2 28/1800 198/030 28/1800 198/033 28/1800

FSU PANAMA CITY WEATHERSTEM

30.19 -85.72 993.3 28/2100 345/037 28/1900 345/037 28/1900

DEAN BOZEMAN SCHOOL WEATHERSTEM

30.39 -85.69 993.7 28/2100 255/029 28/2300 255/033 28/2300

EMERALD COAST MIDDLE SCHOOL WEATHERSTEM

30.36 -86.11 991.5 28/2200 360/019 28/2000 360/023 28/2000

WALTON COUNTY EOC WEATHERSTEM

30.70 -86.00 994.5 28/2300 355/021 28/2100 355/024 28/2100

SHELL POINT BEACH WEATHERSTEM

30.05 -84.29 1002.5 28/2100 136/040 28/1500 160/042 28/2000

WAKULLA HIGH SCHOOL WEATHERSTEM

30.10 -84.38 1005.4 28/2100 294/029 28/2000 294/033 28/2000

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)

42039-3D20 /D PENSACOLA

28.78 -86.04 991.2 28/1450 060/039 28/0450 060/051 28/0450
05/99

SGOF1-TYNDALL AFB TOWER C, FL

29.41 -84.86 1000.7 28/1500 150/041 28/1400 150/047 28/1400
35/99

KTNF1-KEATON BEACH, FL/M

29.82 -83.59 1006.3 28/1000 160/027 28/2000 160/032 28/2100
10/99

SHPF1-SHELL POINT, FL

30.06 -84.29 1003.6 28/2142 150/033 28/1830 160/041 28/1942

06/99

APXF1-APALACHICOLA NERR, FL

29.79 -84.88 9999.0 999/999 160/026 28/1745 999/999 99/9999
05/99

APCF1-APALACHICOLA, FL NOS

29.73 -84.98 1000.9 28/1518 180/032 28/1754 190/038 28/1842
07/99

PACF1

30.15 -85.67 995.5 28/2018 170/034 28/2030 150/046 28/1948
08/99

PCBF1-PANAMA CITY BEACH, FL NOS

30.21 -85.88 994.0 28/2018 240/034 28/2154 240/040 28/2154
09/99

REMARKS:

C. STORM TOTAL RAINFALL FROM 1200 UTC MAY 27 UNTIL 0000 UTC MAY 30

CITY/TOWN LAT LON DEG DECIMAL	COUNTY	ID	RAINFALL (IN)
2 NE ALPINE HEIGHTS 30.74 -86.22	WALTON		4.22
DEFUNIAK SPRINGS 30.73 -86.15	WALTON	54J	4.21
1 SSE PORTLAND 30.49 -86.19	COASTAL WALTON		4.19
3 SW ALTHA 30.53 -85.16	CALHOUN		4.19
TALLAHASSEE REGIONAL AIR 30.39 -84.36	LEON	TALF1	3.98
3 ESE DILLS 30.60 -83.73	JEFFERSON	ASHF1	3.88
LOWRY MILL	COFFEE	LOWA1	3.84

30.42	-84.78			
WACISSA SPRINGS		JEFFERSON		3.81
30.35	-83.99			
3 SW DAWESVILLE		THOMAS	TLMG1	3.66
30.87	-84.05			
2 SE BLOXHAM		LEON		3.63
30.36	-84.61			
1 NE HILLSDALE		TIFT	TWCG1	3.56
31.48	-83.58			
WEWAHITCHKA		GULF	WEWF1	3.55
30.10	-85.20			
1 S ADEL		COOK	AELG1	3.44
31.12	-83.43			
1 SSW REED BINGHAM STATE		COLQUITT	ADLG1	3.39
31.15	-83.54			
3 E BARNEY		BROOKS	HRAG1	3.37
31.00	-83.46			
INLET BEACH		WALTON		3.37
30.27	-86.00			
PERRY		TAYLOR	PERF1	3.32
30.10	-83.58			
2 NE TIFTON		TIFT		3.32
31.48	-83.48			
1 WNW TALLAHASSEE		LEON		3.29
30.44	-84.30			
1 S GREENWOOD		JACKSON		3.28
31.18	-84.34			
1 E SHIVER		BROOKS	OKAG1	3.24
30.82	-83.53			
BLUE SPRINGS		BROOKS	QUTG1	3.21
30.78	-83.46			

2 NNE TALLAHASSEE	LEON		3.18
30.46 -84.27			
2 SSW CHASTAIN	THOMAS	CLDG1	3.13
31.00 -83.94			
VALDOSTA	LOWNDES	VLDST	3.12
30.84 -83.28			
1 E SELLERSVILLE	GENEVA	SLLA1	3.04
31.12 -85.98			
2 E CAIRNS ARMY AIR FIEL	DALE	DCRA1	3.03
31.27 -85.68			
1 N THOMAS CITY	JEFFERSON	WACF1	3.00
30.36 -83.97			

REMARKS:

D. INLAND FLOODING...

WALTON...WATER FLOWED AT A HIGH RATE OF SPEED ACROSS CR 395 AT EAST POINT WASHINGTON ROAD IN SANTA ROSA BEACH. THE INTERSECTION OF FLOUNDERS AND PORPOISE STREETS IN SANTA ROSA BEACH WAS FLOODED. INLET BEACH PARK BEACH ACCESS AREA FLOODED ON LAKESHORE DRIVE.

WAKULLA...A FEW LOW LYING ROADS FLOODED.

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
BAY	G PANAMA CITY BEA	9999.00	2.62	28/1312	UNKNOWN
BAY	G PANAMA CITY MAR	9999.00	2.33	28/1342	UNKNOWN
FRANKLIN	G APALACHICOLA TI	9999.00	2.99	28/1800	UNKNOWN

WAKULLA	G SPRING CREEK	9999.00	4.86	28/1815	UNKNOWN
WAKULLA	G SHELL POINT	9999.00	4.83	28/1836	MINOR
WAKULLA	G SAINT MARKS	9999.00	4.72	28/1920	UNKNOWN
JEFFERSON	G NUTTALL RISE	9999.00	4.17	28/1848	UNKNOWN
TAYLOR	G STEINHATCHEE	9999.00	3.15	28/1800	UNKNOWN
DIXIE	G SUWANNEE	9999.00	3.60	28/1900	UNKNOWN

REMARKS: GAUGE REPORTS IN MEAN HIGHER HIGH WATER

PANAMA CITY BEACH TIDE STATION (BAY COUNTY) 1.65 FT MHHW
 PANAMA CITY MARINA (BAY COUNTY) 1.54 FT MHHW
 APALACHICOLA TIDE STATION (FRANKLIN COUNTY) 2.99 FT MHHW
 SPRING CREEK (WAKULLA COUNTY) 3.22 FT MHHW
 SHELL POINT (WAKULLA COUNTY) 3.20 FT MHHW
 SAINT MARKS (WAKULLA COUNTY) 2.89 FT MHHW
 NUTTALL RISE (TAYLOR COUNTY) 2.27 FT MHHW
 STEINHATCHEE (TAYLOR COUNTY) 1.51 FT MHHW
 SUWANNEE RIVER (DIXIE COUNTY) 2.16 FT MHHW

F. TORNADOES...

```

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

```

G. STORM IMPACTS BY COUNTY...

```

-----
COUNTY          DEATHS          INJURIES          EVACUATIONS
DESCRIPTION
-----
WALTON           0                0                0

```

CONSTRUCTION BARRELS BLOWN ONTO HIGHWAY 98 IN MIRAMAR BEACH. A TREE
 FELL KNOCKING LINES ACROSS THE ROAD AT 186 FINE HILL DRIVE IN

DEFUNIAK SPRINGS. TREES DOWNED AT SPENCE DRIVE AND SR 81 IN PONCE DE LEON, AT OAK GRIVE ROAD AND CR 181E IN WESTVILLE, AND AT SOUTH JACKSON STREET IN FREEPORT. FLOODING REPORTED IN SANTA ROSA BEACH NEAR THE INTERSECTION OF COUNTY HIGHWAY 395 AND EAST POINT WASHINGTON ROAD AND ALONG FLOUNDER STREET AND DOLPHIN WAY. INLET BEACH PARK BEACH ACCESS AREA FLOODED ON LAKESHORE DRIVE.

DIXIE

STORM SURGE IMPACTS...NONE. WATER DID NOT BREACH SEA WALL IN HORSESHOE BEACH AND SUWANNEE.

TAYLOR

COASTAL FLOOD IMPACTS...STEINHATCHEE BOAT RAMP FLOODED WITH SOME MINOR OVERWASH INTO THE ADJACENT PARKING LOT. ON THE AUCILLA RIVER, THE BOAT RAMP AT MANDALAY BAY WAS WASHED OFF PILINGS ONTO DRY LAND.

WAKULLA

APPROXIMATELY 40 LINES/TREES DOWN, A FEW LOW LYING ROADS FLOODED. ONE REPORT OF DAMAGE TO A STRUCTURE FROM A TREE FALLING. COASTAL FLOOD IMPACTS - ST MARKS RIVER AT US-98: 1.5 FEET INUNDATION AT NEWPORT BOAT RAMP. TOWN OF SAINT MARKS...RIVERSIDE DRIVE WAS FLOODED UP TO 1 FT DEPTH AND INUNDATION EXTENDED FROM RIVERFRONT UP TO 1000 FT INLAND NORTHWARD ALONG PORT LEON DRIVE. WATER ENTERED RESTAURANT. OLD FORT ROAD AND AREAS NEAR THE FORT FLOODED WITH PEAK INUNDATION OF 2.5 FEET. SHELL POINT BEACH...MINOR BEACH EROSION. 5 HOMES HAD WATER WASH UNDERNEATH THEM ALONG BEATTY TAFF DRIVE. MASHES SANDS BEACH. FROM THE BEACH FRONT WESTWARD TO BLUE CRAB ROAD WAS FLOODED. PEAK INUNDATION WAS NEAR BEACHFRONT AROUND 2.5 FT. WATER INUNDATION COVERED UP TO 3000 FT ALONG THE ROAD. TWO HOMES AT GROUND LEVEL HAD WATER REACH AN EXTERIOR WALL, BUT NO WATER ENTERED THE STRUCTURES.

FRANKLIN

COASTAL FLOOD IMPACTS...ALLIGATOR POINT ROAD WAS OVERWASHED DURING PEAK STORM SURGE. IN EASTPOINT, FLOODING AFFECTED THE EAST END OF THE CAUSEWAY TO APALACHICOLA, BUCK STREET, THE BEACHES NEAR REED COURT AND WAS UP TO THE ROCKS AT 10TH STREET AND HIGHWAY 98. IN APALACHICOLA, THE MARINA AND WATER ST. FLOODED. AT THE EAST END OF THE ST. GEORGE ISLAND PLANTATION, THE BEACHES WERE UNDERWATER.

COFFEE 0 0 0

TREES DOWN ON COUNTY ROAD (CR) 321, CR 342 NEAR ELBA, AL 87 NEAR

FULLER BROTHERS IN ELBA, AL 87 AT MM 34, AL 189 NEAR PERRY STORE/AL 134, CR 153 NEAR TABERNACLE AND CR 248 AT WEEKS BRIDGE IN NEW BROCKTON. POWER LINES DOWN ON LEE ST. IN NEW BROCKTON, ELBA NEAR WEEKS TIRE AND IN THE DOWNTOWN AREAS OF ELBA AND ENTERPRISE.

HOUSTON 0 0 0

A FEW DOWNED TREES AND A SHORT POWER OUTAGE IN A SMALL AREA. ONE TREE PARTIALLY BLOCKED BRANNON STAND ROAD ON THE WEST SIDE OF DOTHAN.

BAY 0 0 UNKWN

A FEW DOWNED TREES AND A SHORT POWER OUTAGE IN A SMALL AREA. ONE TREE PARTIALLY BLOCKED BRANNON STAND ROAD ON THE WEST SIDE OF DOTHAN.

HOLMES 0 0 0

THERE WERE A COUPLE OF REPORTS OF TREES DOWN BLOCKING ROADWAYS (CARTER MACK AND OLD MILL). AN OAK TREE FELL ON A MOBILE HOME.

JACKSON 0 0 0

THREE SMALL POWER OUTAGES, A FEW MINOR ACCIDENTS AND ABOUT EIGHT TREES THAT CAME DOWN ON ROADS AND POWER LINES.

LIBERTY 0 0 0

SMALL AND SPORADIC POWER OUTAGES.

LEON 0 0 0

9000 HOMES LOST POWER IN THE CITY OF TALLAHASSEE DUE TO DOWNED TREES AND LIMBS. A CAR CRASHED INTO A TRAFFIC SIGN SUPPORT POLE IN I-10. A DRIVER HIT A UTILITY POLE ON WEST ORANGE AVENUE IN TALLAHASSEE.

JEFFERSON 0 2 0

A TREE FELL ON A CAR ON I-10 CAUSING 2 SERIOUS INJURIES.

\$\$

Legend:

I-Incomplete Data

E-Estimated

WOOL

Appendix B – Post-Tropical Cyclone Report from NWS Tampa Bay Area

902
ACUS72 KTBW 301613
PSHTBW

POST TROPICAL [CYCLONE REPORT](#)...[SUBTROPICAL STORM](#) ALBERTO
NATIONAL WEATHER SERVICE TAMPA BAY AREA - RUSKIN FL
1213 PM EDT WED MAY 30 2018

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 ALBERTO
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 CITRUS...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

[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)	(DIR/ KT)	(UTC)	(DIR/ KT)	(UTC)

KBKV-BROOKSVILLE FL		28.47 -82.45	1006.0 27/2153	100/014	27/1753	110/022	27/1508
KTPA-TAMPA INTERNATIONAL AIRPORT FL		27.97 -82.53	1005.9 27/1953	200/014	27/2053	200/022	27/1953
KPIE-SAINT PETERSBURG FL		27.91 -82.69	1005.3 27/1753	120/020	27/1453	120/034	27/1622
KSPG-ALBERT WHITTED FL		27.77 -82.63	1004.7 27/1753	140/026	27/1500	160/031	27/1628
KSRQ-SARASOTA FL		27.40 -82.55	1004.6 27/1253	180/021	27/1753	180/030	27/1731
KMCF-MACDILL AIRFORCE BASE FL		27.86 -82.52	1007.7 28/0656	170/015	28/1216	170/018	28/0956
KGIF-WINTER HAVEN FL		28.05 -81.75	1007.1 27/2153	120/015	27/1349	150/024	27/1843
KPGD-PUNTA GORDA FL		26.92 -81.99	1006.1 27/0953	220/019	27/1818	190/026	27/1658
KFMY-FORT MYERS PAGE FIELD FL		26.58 -81.97	1005.4 27/0853	190/017	27/1753	210/026	27/1755
KRSW-REGIONAL SOUTHWEST FL		26.54 -81.76	1005.4 27/0853	210/019	27/2153	230/027	27/1835

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/
<u>LAT</u>	LON	<u>PRES</u>	TIME	SUST	TIME	<u>GUST</u>	TIME
DEG	DECIMAL	(<u>MB</u>)	(<u>UTC</u>)	(<u>DIR/KT</u>)	(<u>UTC</u>)	(<u>DIR/KT</u>)	(<u>UTC</u>)
ABS01							
27.18	-81.35					999/036	27/1515
CKYF1							
29.14	-83.03					154/033	28/1405
XSKY							
27.60	-82.65					170/033	28/1515

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/
<u>LAT</u>	LON	<u>PRES</u>	TIME	SUST	TIME	<u>GUST</u>	TIME
DEG	DECIMAL	(<u>MB</u>)	(<u>UTC</u>)	(<u>DIR/KT</u>)	(<u>UTC</u>)	(<u>DIR/KT</u>)	(<u>UTC</u>)
CKYF1-CEDAR KEY-CMAN							
29.14	-83.03	1004.6	27/2018	175/026	28/1530	190/033	28/1157
C10-COMPS BUOY							
27.17	-82.93	9999.9	99/9999 I	999/999	99/9999 I	110/056	27/1200
FMRF1-FORT MYERS							
26.65	-82.87	1004.9	27/0900	166/016	28/1836	167/024	28/1548
CWBF1-CLEARWATER BEACH							
27.98	-82.83	1005.2	27/1754	168/029	28/1942	167/037	28/1718
OPTF1-OLD PORT TAMPA							
27.86	-82.55	1005.6	27/1754	186/025	28/1530	182/030	28/1836
SAPF1-ST PETERSBURG							
27.76	-82.63	1005.1	27/1800	176/023	28/1436	186/029	28/1912

REMARKS:

C. STORM TOTAL RAINFALL FROM 1100 UTC MAY 26 UNTIL 1100 UTC MAY 28

CITY/TOWN	COUNTY	ID	<u>RAINFALL</u>
<u>LAT</u>	LON		(IN)
DEG	DECIMAL		
1 NNW DOVER	HILLSBOROUGH		6.60
28.00	-82.23		
1 N RIVERVIEW	HILLSBOROUGH		4.92
27.88	-82.32		

4 SSE BOYETTE 27.76 -82.22	HILLSBOROUGH	3.73
1 SSE VALRICO 27.93 -82.25	HILLSBOROUGH	3.12
2 WNW <u>CAPE</u> CORAL 26.58 -82.02	<u>LEE</u>	3.08
4 ENE WILDWOOD 28.87 -81.98	SUMTER	3.04
2 N LAKE JOSEPHINE 27.42 -81.44	HIGHLANDS	2.80

REMARKS:

D. INLAND FLOODING...

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

COUNTY	CITY/TOWN OR LOCATION	<u>SURGE</u> (<u>FT</u>)	<u>TIDE</u> (<u>FT</u>)	DATE/ TIME	BEACH <u>EROSION</u>
LEVY	G CEDAR KEY	2.73	1.80	28/1730	UNKNOWN
PINELLAS	G CLEARWATER BE	1.09	1.90	28/1530	MINOR
HILLSBOROUGH	G MCKAY BAY	2.11	1.49	28/1800	UNKNOWN
HILLSBOROUGH	G OLD PORT TAMPA	1.90	1.38	28/1818	UNKNOWN
PINELLAS	G SAINT PETERSBUR	1.87	1.22	28/1742	UNKNOWN
MANATEE	G PORT MANATEE	1.81	1.08	27/1754	UNKNOWN
<u>LEE</u>	G FORT MYERS	1.71	1.74	27/2000	MINOR

REMARKS: STORM TIDE DATUM USED IS MHHW.

F. TORNADOES...

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

G. STORM IMPACTS BY COUNTY...

COUNTY DESCRIPTION	DEATHS	INJURIES	EVACUATIONS
\$\$			

Legend:
I-Incomplete Data
E-Estimated

NOAH

