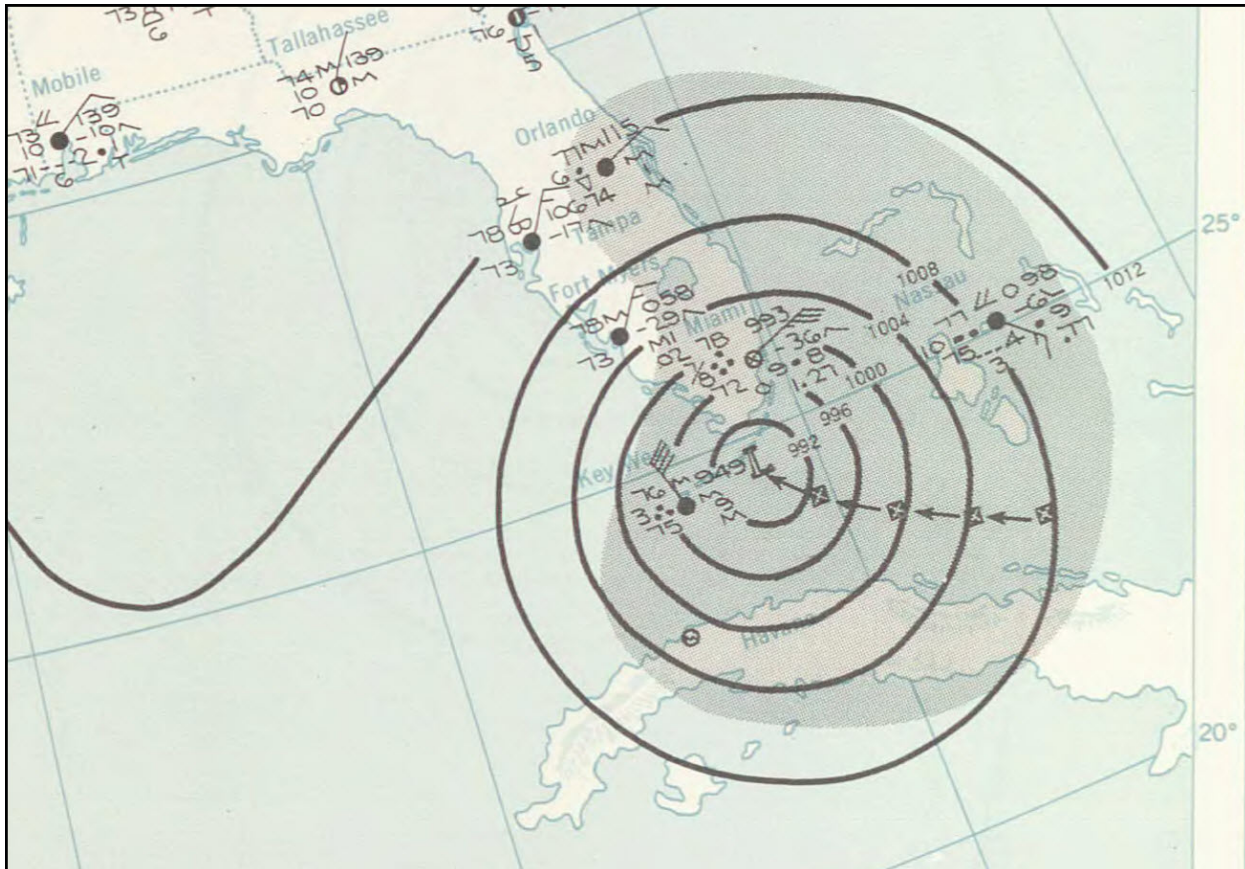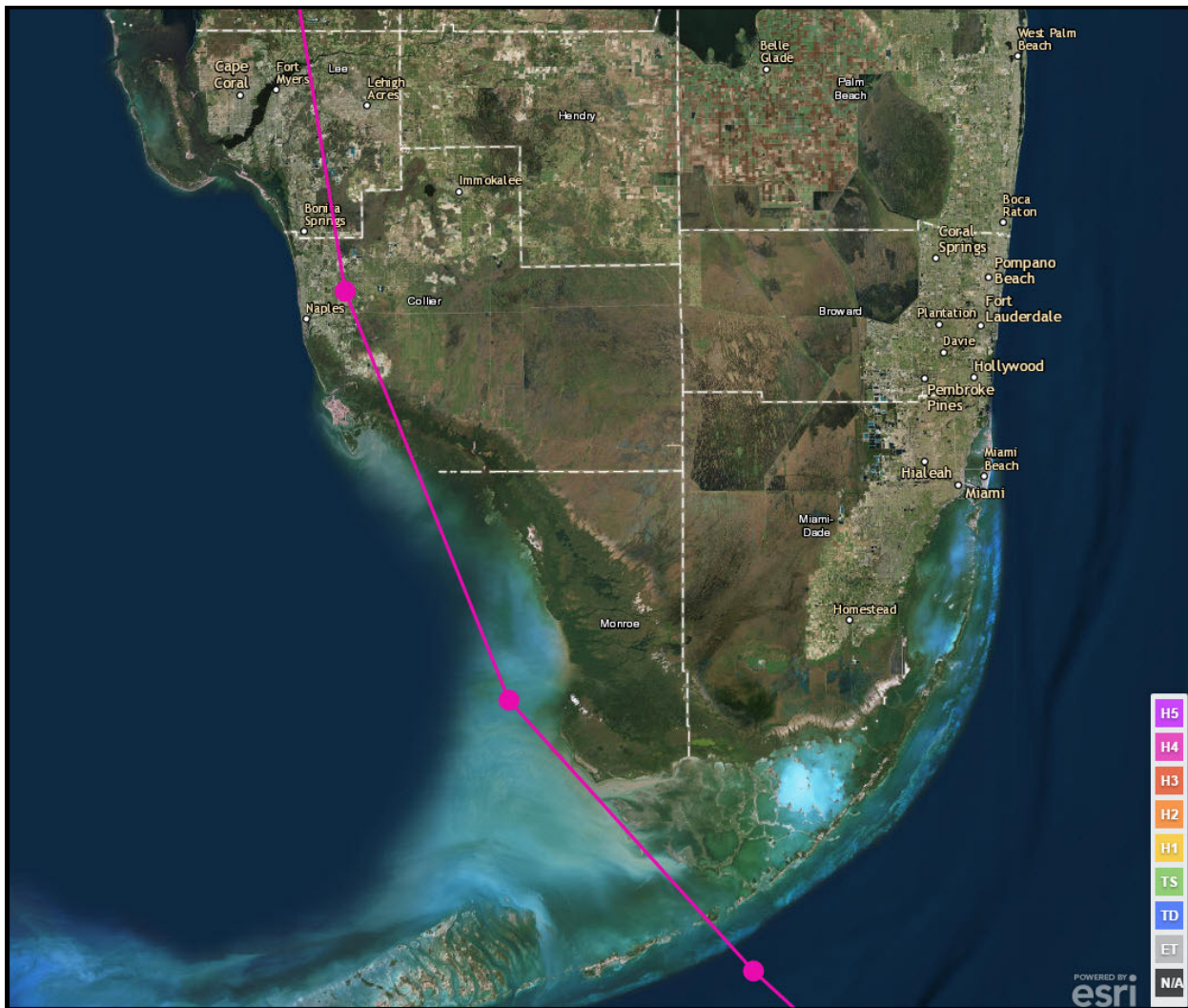## U.S.A and Global Events for September 10th:

1811: South Carolina was hit by a hurricane. The main highlight associated with the hurricane was a tornado that damaged downtown Charleston. Click HERE for a tweet from Cary Mock, Professor at the University of South Carolina.

1960: The center of Hurricane Donna passed over the middle of the Florida Keys between 2, and 3 am on this day. Donna was a Category 5 hurricane over the Atlantic and a Category 4 at landfall. This storm caused the deaths of over 100 in Puerto Rico, 50 in the United States, and 63 in a jet crash. The plane crash occurred on August 29th as a French airliner was attempting to land at Dakar, Senegal during a "blinding rainstorm." The storm was likely a tropical disturbance at the time of the crash. Click HERE for more information from the NWS Office in Miami.
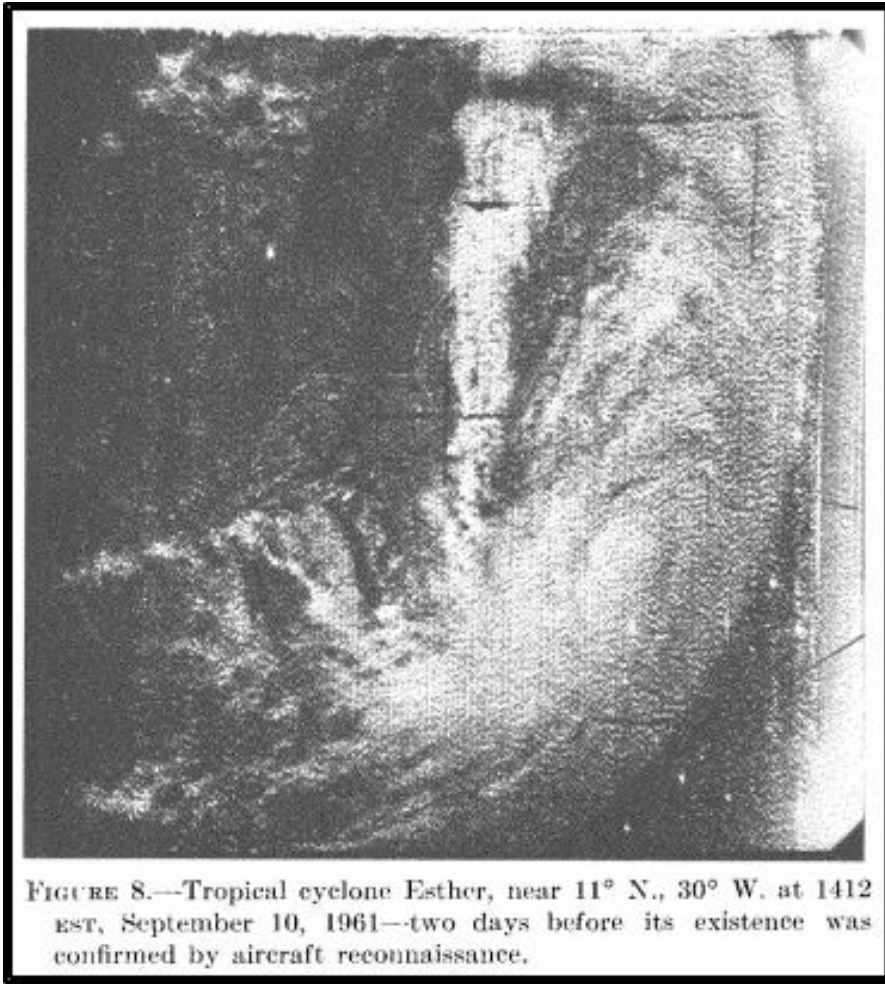

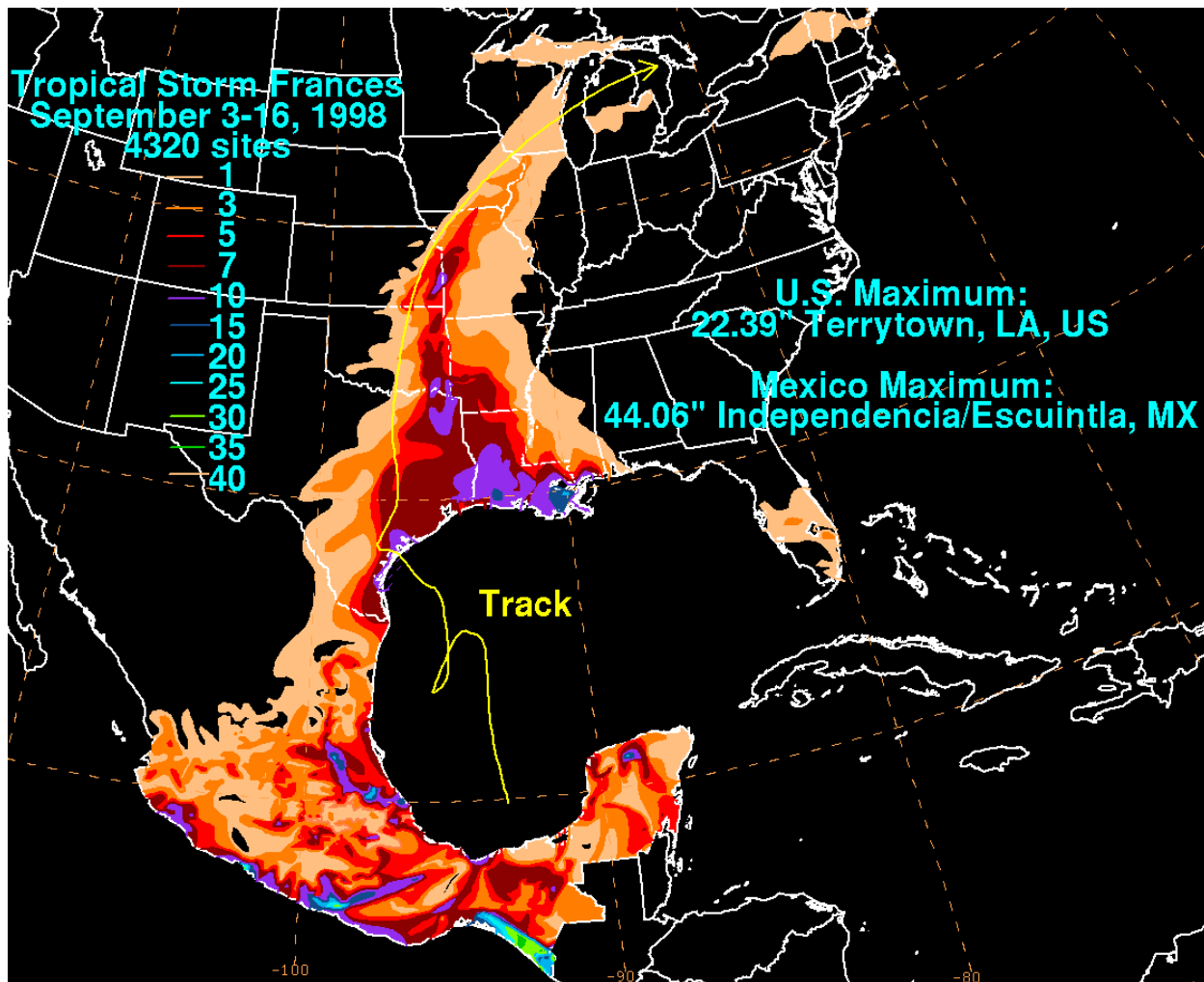Above is a surface map of Hurricane Donna on September 10, 1960, at 1 AM, EST.

Above is the hurricane track across southwest Florida on September 10.

1961: On September 10th, the Television Infrared Observation Satellite observed an area of thunderstorms west-southwest of the Cape Verde Islands, suggesting a possible tropical cyclone. This storm is the first large tropical cyclone to be discovered on satellite imagery and would eventually become Hurricane Esther.

FIGURE 8.—Tropical cyclone Esther, near 11° N., 30° W. at 1412 EST, September 10, 1961—two days before its existence was confirmed by aircraft reconnaissance.

1998: Tropical Storm Frances made landfall near Matagorda Bay, TX, causing the worst coastal flooding and beach erosion since Hurricane Carla in 1961. The storm's heavy rains ended a drought in East Texas but caused severe river flooding in parts of Texas and Louisiana. The highest rainfall total noted was 21.10 inches at Terrytown in southeast Louisiana. A major disaster declaration was issued for Cameron, Jefferson, Lafourche, and Terrebonne parishes in Louisiana.

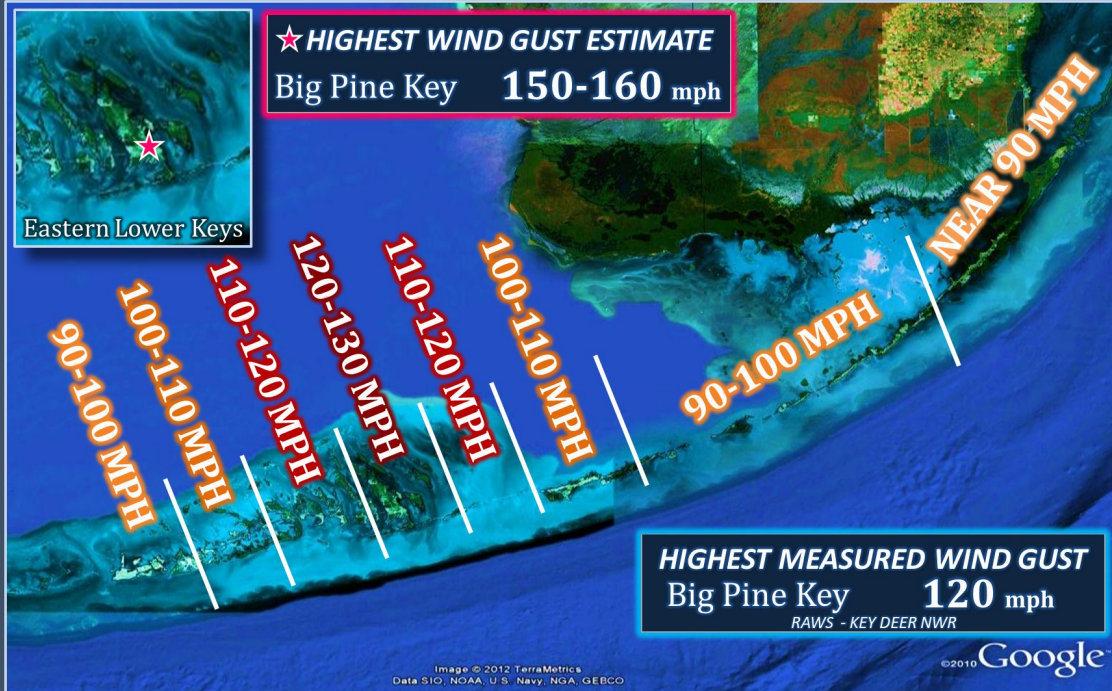The rainfall map above is from the Weather Prediction Center.

2017: Hurricane Irma crossed the Florida Keys as a Category 4 storm. Click **HERE** for more information from NWS Key West. Click HERE for additional information from MesoWest and Synoptic Labs.

HURRICANE IRMA PEAK WIND GUSTS

ESTIMATED BASED ON DAMAGE ASSESSMENTS — *9/10/2017*

Eastern Lower Keys

★ **HIGHEST WIND GUST ESTIMATE**
Big Pine Key   **150-160** mph

NEAR 90 MPH

90-100 MPH

100-110 MPH

110-120 MPH

120-130 MPH

110-120 MPH

100-110 MPH

90-100 MPH

HIGHEST MEASURED WIND GUST
Big Pine Key   **120** mph
RAWS - KEY DEER NWR

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October 1, 2017