

= Tropical Storm Don (2011) =

Tropical Storm Don was the fourth named storm of the 2011 Atlantic hurricane season and the first tropical cyclone to make landfall in the United States during the 2011 season . Forming from an area of low pressure along a tropical wave , Don was operationally upgraded straight to tropical storm intensity on July 27 , after a reconnaissance aircraft noted the presence of tropical @-@ storm @-@ force winds . It tracked across the Gulf of Mexico and reached a peak intensity of 50 mph (85 km / h) before moving ashore in Texas on July 30 as a tropical depression . Initially , Don was a possible catalyst for relief to the drought @-@ stricken state , but the system dissipated rapidly after making landfall , providing very little in the way of help to the state .

= Meteorological history =

The genesis of Tropical Storm Don was from a tropical wave first identified off the west coast of Africa on July 16 . It tracked westward over the open Atlantic for several days , with minimal convection confined to the monsoon trough . The National Hurricane Center (NHC) first mentioned the potential for gradual tropical cyclogenesis on July 21 , when it was positioned about 750 mi (1200 km) to the east of the Windward Islands . As the system moved through the Lesser Antilles on July 23 , it produced tropical @-@ storm @-@ force winds in Puerto Rico . The combination of vertical wind shear and the wave 's proximity to land impeded further development . Convection increased along the northern portion of the wave on July 24 , although by the following day the NHC expected no significant redevelopment .

Early on July 26 , the thunderstorms along the tropical wave became more concentrated to the south of Cuba , in association with a low @-@ pressure area . The system continued to organize , and by 0600 UTC on July 27 , the surface circulation became defined enough for it to be classified as a tropical depression about 60 mi (95 km) northeast of Cancún , Mexico . Within twelve hours , the depression intensified into a tropical storm . Operationally , the system was not known to be a tropical cyclone until 2100 UTC on July 27 , after a reconnaissance aircraft flight into the system confirmed the presence of a closed , albeit elongated , circulation center . At that point , the NHC classified it as Tropical Storm Don . Upon forming , the storm moved to the west @-@ northwest along the southern periphery of a low- to mid @-@ level ridge over the northern Gulf of Mexico . Due to generally favorable conditions , including warm waters and light to moderate wind shear , the NHC predicted steady intensification to winds of at least 65 mph (100 km / h) . However , none of the tropical cyclone forecast models anticipated much strengthening .

Initially , Don failed to intensify significantly due to a misalignment between the lower and mid @-@ level circulations . The wind shear in the region further exposed the circulation from the convection late on July 28 , although the winds increased slightly . Early on July 29 , Don attained peak winds of 50 mph (85 km / h) as reported by the Hurricane Hunters , and the storm maintained that intensity while moving across the Gulf of Mexico . As Don approached the Texas coast early on July 30 , the thunderstorms rapidly diminished due to the combination of wind shear , drier air , and cooler water temperatures just offshore . The winds decreased as the convection dissipated , and Don made landfall on Padre Island National Seashore as a tropical depression at 0230 UTC on July 30 . About three and a half hours later , Don degenerated into a remnant low , and the circulation dissipated six hours after that .

= Preparations and impact =

The state civil protection agency in Quintana Roo warned that the tropical wave from which Don formed was capable of dropping 80 to 150 mm (3 @.@ 1 to 5 @.@ 9 in) of rainfall over the state , while producing sustained winds of 35 to 45 km / h (22 to 28 mph) and gusts up to 65 km / h (40 mph) . After Don was designated as a tropical storm , the Yucatán state government issued a green @-@ level alert . The alert indicated that although the tropical storm was located close to the state , it was only considered to be slightly dangerous . Late on July 27 , the National Hurricane Center

issued a tropical storm watch from Port Mansfield to San Luis Pass in Texas . Six hours later , the tropical storm watch was extended southwards to the international border .

After the storm was named , officials in Texas began making preparations for Don . The University of Texas Medical Branch in Galveston issued a level one alert for Don , and city officials began preparing for a possible evacuation . On July 27 , oil companies throughout the western Gulf of Mexico began removing non @-@ essential personnel from their rigs and platforms in preparation for Don . The next day , BP , Royal Dutch Shell , Anadarko and Apache announced the evacuations of some of the oil facilities in the area , while Exxon @-@ Mobil began preparing the Baytown Refinery for a possible storm strike . Several oil companies stopped oil production as a result of Don ; by midday on July 28 , 6 @.@ 8 % of oil production and 2 @.@ 8 % of natural gas production in the Gulf had been shut in ahead of the storm .

Due to its abrupt weakening prior to landfall , Don produced minimal rainfall , with totals of less than 1 in (25 mm) . However , Bay City , Texas , located well northeast of where the storm made landfall , reported 2 @.@ 56 in (65 mm) . In southern Texas , the rains resulted in slippery roads and some ponding . Cotton farmers benefited from what rains that did fall as they harvested their crop . Winds during Don 's passage were minimal , with a peak wind gust of 41 mph (66 km / h) at Waldron Field . In addition , Don moved ashore with a storm surge that peaked at about 1 @.@ 89 ft (0 @.@ 58 m) at Bob Hall Pier . There were no reports of damage .