

= Tropical Storm Jerry (2001) =

Tropical Storm Jerry was a short @-@ lived tropical storm that formed in the latter half of the 2001 Atlantic hurricane season . Forming as a tropical depression from a tropical wave on October 6 near Barbados , Jerry intensified into a tropical storm early the following day on October 7 while initially located under an environment of weak vertical wind shear . After reaching its peak of 50 mph (80 km / h) , Jerry passed just south of Barbados late on October 7 and through the Windward Islands on October 8 . Shortly after entering the eastern Caribbean Sea , moderate upper @-@ level wind shear affected Jerry 's upper @-@ level outflow , and the cyclone weakened to a depression shortly afterwards . Deterioration in organization continued , and Jerry dissipated while moving rapidly westward well south of Puerto Rico . Jerry caused minimal effects in the Lesser Antilles .

= = Meteorological history = =

A tropical wave moving westward off the African coast on October 1 , 2001 entered the tropical Atlantic . The wave 's organization changed little until October 4 as it moved westward , when curved banding features began to increase . However , little improvement in the wave 's organization occurred until October 6 after continuing to move westward for two days , when an area of low pressure was identified by the National Hurricane Center . Afterward , the cloudiness became more concentrated , and the system organized into a tropical depression by noon on October 6 , shortly after the first advisory from the NHC was issued at 11 a.m. AST .

Located 620 mi (1 @,@ 000 km) east @-@ southeast of Barbados , the twelfth depression of the season moved just north of due west , steered quickly at 20 to 25 mph (40 km / h) by a ridge of high pressure in the lower to middle troposphere . At 5 p.m. AST later on October 6 , the NHC noted that the depression was nearing tropical storm strength . Shortly after , a burst of heavy convective thunderstorms developed over the ill @-@ defined low @-@ level center , and as organization improved , the system was upgraded to 40 mph (65 km / h) Tropical Storm Jerry around midnight on October 7 . Located within an environment of weak vertical wind shear , Jerry strengthened further , with its maximum sustained winds reaching their estimated peak of around 50 mph (80 km / h) as Jerry approached the Windward Islands later on October 7 . Jerry passed just south of Barbados at its peak intensity , followed by a slowing of forward speed and jog to the northwest as Jerry entered the Windward Islands early on October 8 . Reconnaissance aircraft also indicated a possible reformation of the center , as data indicated multiple low @-@ level rotations on a northeast to southwest axis .

As Jerry entered the eastern Caribbean Sea early on October 8 after bypassing St. Vincent , its forward speed increased to 25 mph (40 km / h) , and reconnaissance aircraft observations indicated a broad circulation with several small rotations but an ill @-@ defined low @-@ level center . Later , satellite observations indicated that the storm was poorly organized , with an elongated cloud mass and displaced secondary center to the northwest . Moderate vertical wind shear from the northwest developed , disrupting Jerry 's upper @-@ level outflow . Jerry continued to deteriorate , and later on October 8 , aircraft data indicated the system had weakened into a broad area of low pressure with scattered squalls mainly to the east of the remnant center . Jerry then dissipated shortly afterward approximately 230 miles south of Puerto Rico , with the remnants moving westward .

= = Preparations and impact = =

Due to the tropical cyclone 's short life , overall track errors in model guidance were not significant , and most models accurately indicated Jerry 's westward to west @-@ northwest course into the Caribbean Sea . Most models and official forecasts did not anticipate Jerry 's dissipation , and numerous models indicated the system would reach hurricane status within two to three days under favorable conditions . Prior to Jerry 's formation , a tropical storm watch was issued for Barbados at 5 p.m. EDT on October 6 because of forecasts that indicated the depression could intensify to

tropical storm intensity . As the depression intensified to tropical storm status and moved closer to the Windward Islands , a tropical storm watch was issued for Tobago by the government of the island nation and for nearby Grenada by the Trinidad and Tobago Meteorological Service at 5 a.m. EDT on October 7 . A tropical storm warning was issued for Barbados at 8 a.m. EDT .

Jerry caused minimal damage as it moved through the Windward Islands and Lesser Antilles . A station at Martinique reported sustained one @-@ minute winds of 44 mph (72 km / h) on October 8 . The outer bands of Jerry delivered light rainfall to Grenada on October 8 , but no damage was reported . Some downpours and high winds were reported . No ships reported tropical storm @-@ force winds , though Barbados reported a minimum pressure of 1007 mb .