

= Tropical Storm Danny (2009) =

Tropical Storm Danny was a weak and disorganized tropical cyclone that formed in August 2009 . The fourth tropical system and third named storm of the 2009 Atlantic hurricane season , Danny developed on August 26 from the interaction between a westward @-@ moving tropical wave and an upper @-@ level trough while situated east of the Bahamas . The storm never fully matured , and resembled a subtropical cyclone . It meandered generally northwestward before being absorbed into another weather system on August 29 .

Danny had only minor effects on land . However , it triggered high surf and rip currents from Florida through the Mid @-@ Atlantic states , leading to the death of a 12 @-@ year @-@ old boy in North Carolina . The cyclone 's remnants contributed to widespread rainfall in the northeast United States . At one point , some weather forecasts predicted Danny to rapidly strengthen , and hit Nantucket as a Category 1 Hurricane , although this never occurred . Localized flooding was reported , particularly in Pennsylvania . It later caused heavy precipitation and power outages in Atlantic Canada .

= = Meteorological history = =

Danny originated in a tropical wave that exited the west coast of Africa on August 18 and entered the Atlantic Ocean . Convective activity associated with the system briefly showed signs of organization on August 22 ; however , wind shear stunted further development . On August 24 , shower activity once again increased as the disturbance interacted with an upper @-@ level trough . On the afternoon of August 25 , the National Hurricane Center assessed a high chance of tropical cyclone formation within 48 hours . That same day , a Hurricane Hunters mission into the system revealed a broad area of tropical @-@ storm force winds , but no closed circulation center . However , around 0900 UTC on August 26 , satellite imagery and QuikSCAT information indicated that a closed circulation had formed . While situated about 430 mi (690 km) to the east of Nassau , Bahamas , the feature was declared a tropical storm ? skipping the tropical depression stage .

Due to the interaction of the initial wave and the upper @-@ level trough , Danny maintained a " non @-@ classical " structure resembling that of a subtropical cyclone . Even after its designation as a tropical storm , the storm was highly disorganized . Little or no deep thunderstorm activity surrounded the center , and the highest winds in relation to the cyclone were confined to a rainband in the northern semicircle . The storm moved erratically northwestward throughout the day , strengthening slightly . Danny 's center reformed several times , making it difficult to determine its exact forward motion .

By early on August 27 , the tropical storm became slightly better organized , although the most intense winds were still removed from the center . Danny peaked with maximum sustained winds of 60 mph (95 km / h) and a minimum pressure of 1006 mbar (hPa ; 29 @.@ 71 inHg) . It held this strength for about 12 hours before wind shear caused the storm to gradually weaken as it meandered northward . By August 28 , Danny further deteriorated , and reconnaissance aircraft found that it was barely a tropical storm . After stalling during the afternoon , the center resumed a north or north @-@ northwestward drift .

A strong upper @-@ level trough moving through the southeastern United States forced Danny northeastward , which also triggered the formation of another low pressure system near the coast of North Carolina early on August 29 . Although this low formed within Danny 's cyclonic envelope , satellite imagery indicated that it did not have the characteristics of a tropical cyclone . Therefore , it is not considered to be a continuation of Danny . The new low caused the tropical storm to degenerate into a trough about 275 mi (445 km) southeast of Wilmington , North Carolina , and Danny 's remnants were absorbed into a developing frontal zone shortly thereafter .

= = Impact = =

In advance of the cyclone , a tropical storm watch was posted for North Carolina from Cape Lookout to Duck at 2100 UTC on August 27 . It was discontinued on August 29 .

Since the storm remained offshore for the most part , its effects were limited . However , it generated strong rip currents and rough waves on the U.S. East Coast which may have resulted in the crowning death of a 12 @-@ year @-@ old boy near Corolla , North Carolina on August 28 . On September 1 , the Currituck County Sheriff 's Office reported that the boy 's body was found on the beach about 1 mi (1 @.@ 6 km) north of where he went missing . Farther south , Danny generated waves 6 to 7 ft (1 @.@ 8 to 2 @.@ 1 m) in height along Florida 's Atlantic coast . High surf and rip currents also affected the Mid @-@ Atlantic states , prompting officials to issue bathing restrictions . A surfer in Monmouth County broke his leg in the rough conditions .

The remnants of the storm interacted with a frontal boundary , triggering widespread rainfall in numerous states which led to localized flooding . In Delaware County , torrential rainfall produced flash flooding that trapped one family in their basement . A creek near Philadelphia overflowed its banks and caused minor flooding . Several roads in Lehigh County , including one lane of U.S. Route 222 , were closed due to flood waters . Flooding also took place in New Jersey ; numerous basements were submerged and water rescues from vehicles were performed in Camden County . Isolated reports of 7 in (180 mm) of precipitation were received in Maryland .

Once extratropical , the system impacted New England with high winds and heavy rainfall . At least 2 in (51 mm) of rain fell in Massachusetts and Rhode Island . Some roads throughout the region became impassable due to standing water . A site in the Nantucket Sound recorded a wind gust to 61 mph (98 km / h) . The former tropical cyclone produced wind gusts of 60 mph (97 km / h) in Maine , toppling trees and ripping boats from their moorings at a harbor in Eastport . The system also brought heavy rainfall to the area .

Danny 's remnants later caused heavy rain across Atlantic Canada . At Saint John , New Brunswick , 100 mm (3 @.@ 9 in) of rain fell , and at least 50 basements were flooded . The Meteorological Service of Canada declared several weather advisories for New Brunswick , Newfoundland , Prince Edward Island and Nova Scotia . In Nova Scotia , during the storm 's worst , over 16 @,@ 000 residences lost power .