

= Typhoon Dan ( 1989 ) =

Typhoon Dan , known in the Philippines as Typhoon Saling , was the third of a series of tropical cyclones that impacted the Philippines and Vietnam in October 1989 . The storm developed on October 6 , and tracked generally westward throughout its course . After crossing Luzon , the typhoon emerged into the South China Sea and reached its peak intensity , with sustained 10 @-@ minute winds of 140 km / h ( 85 mph ) , 1 @-@ minute winds of 130 km / h ( 80 mph ) , and a minimum barometric pressure of 960 millibars . The storm moved ashore in central Vietnam and dissipated after moving inland . The storm caused extensive damage throughout its course . In the Philippines , Dan left hundreds of thousands homeless and killed 58 people . Power outages were extensive in the Manila region . In Vietnam , the storm 's high winds and heavy rains caused extensive damage and loss of life . More than 500 @,@ 000 structures were damaged or destroyed and at least 43 people were killed across the country .

= = Meteorological history = =

On October 6 , 1989 , a tropical disturbance formed in the monsoon trough near the island of Chuuk . An advisory by the Joint Typhoon Warning Center ( JTWC ) assessed the system as having a " poor " chance to develop due to strong wind shear in the region . A day later , the potential of development was adjusted to " fair " . On October 8 , the wind shear relented and a well @-@ defined band persisted near the storm 's center of circulation . As a result , a Tropical Cyclone Formation Alert was issued . That same day , the Japan Meteorological Agency ( JMA ) classified the storm as a tropical depression . At 1200 UTC , the JTWC issued their first warning on Tropical Depression 29W . At the time , it was centered about 70 mi ( 110 km ) northeast of Yap .

About 18 hours later , the depression was upgraded to a tropical storm and given the name Dan . The cyclone moved westward at 17 to 23 mph ( 27 to 37 km / h ) , and convection continued to mature . Outflow was good across most of the system , except the northwestern corner where it was restricted by interaction with a nearby typhoon . Due to the cyclone 's proximity to the Philippines , the Philippine Atmospheric , Geophysical and Astronomical Services Administration also monitored the storm , assigning it with the local name Saling . The JMA upgraded it to a tropical storm on October 9 ; both agencies recognized it as a typhoon the next day after an eye became visible and outflow improved in the northwestern quadrant . Dan made landfall on the southeastern coast of Luzon in the Philippines , and its center tracked just south of the Ninoy Aquino International Airport .

Dan crossed over the island and emerged into the South China Sea , having lost its eye feature and weakened back into a tropical storm . Convection soon redeveloped as the storm moved northwestward through warm waters . The JTWC reports that Dan reattained typhoon status at 0000 UTC on October 12 , although it according to the JMA it did so 24 hours earlier . The typhoon continued to intensify , and the JTWC estimates that it reached its peak intensity at 0600 UTC , with 1 @-@ minute maximum sustained winds of 130 km / h ( 80 mph ) . The JMA indicates that Dan peaked slightly afterward , with 10 @-@ minute sustained winds of 140 km / h ( 85 mph ) and a minimum barometric pressure reading of 960 millibars .

The storm passed about 70 mi ( 110 km ) south of Hainan Island and weakened somewhat . Increased wind shear further deteriorated the system as it approached the coast of Vietnam . The storm moved inland at around 1200 UTC on October 13 , at which point the JMA downgraded it to a severe tropical storm and the JTWC issued their final advisory on the disturbance . The circulation ultimately dissipated over the mountainous terrain and its remnants continued to move westward into Laos .

= = Impact = =

Although it was relatively weak , the storm caused severe damage . In the Philippines , 58 fatalities from the cyclone were reported , with an additional 121 injuries . In total , 682 @,@ 699 people , or 135 @,@ 245 families , were affected by the typhoon , and 49 @,@ 972 houses sustained damage

. Monetary storm damage is placed at \$ 59 @. @ 2 million . The storm triggered flooding and landslides , while high winds , estimated up to 160 km / h ( 99 mph ) brought down trees and powerlines . The second typhoon to strike the country within a week , Dan forced schools and government offices to close . Approximately 250 @, @ 000 people were left homeless , and dozens of fishermen went missing offshore . In the Manila area , near @-@ total power loss was reported . President Corazon Aquino issued a " state of calamity " there and in surrounding areas . In the wake of the storm , the nation 's military provided \$ 300 @, @ 000 worth of food for residents in evacuation centers . The Department of Social Welfare and Development also provided \$ 371 @, @ 000 worth of emergency relief assistance to 2 @, @ 700 families displaced by the storm . Despite the scale of damage from Dan and other typhoons in the region , no request for international assistance was made by the Philippine Government . As the storm progressed westward , it buffeted Hainan Island with gale @-@ force winds and exacerbated damage caused by Typhoons Angela and Brian . Collectively , the three storms were responsible for 63 fatalities on the island , most of which were attributed to Brian .

Damage in Vietnam was also extensive . The high winds , reportedly blowing at 75 mph ( 121 km / h ) , ripped roofs off houses . Large storm tides along the coast pushed flood waters ashore . At least 43 people were killed and another 466 were injured by the storm throughout Vietnam . The most severe damage took place in Hà T?nh Province where 34 fatalities took place . In the province alone , 43 @, @ 000 homes were destroyed and another 500 @, @ 000 were damaged . Extensive flooding across the province submerged 330 @, @ 000 acres ( 130 @, @ 000 ha ) of crops and killed thousands of cattle . In H?i H?ng Province , two people were killed and approximately 60 percent of the homes were damaged or destroyed . Another seven people perished in Thái Bình Province due to strong winds .