

= Typhoon Abby ( 1983 ) =

Typhoon Abby was the second typhoon to strike Japan within a span of a few days in August 1983 . First noted southeast of Guam on July 31 , development of this system was initially slow to occur ; it was first classified on August 5 , and was upgraded into a tropical storm the next day . Intensification was rapid as Abby slowly recurved northward on August 7 and 8 . After reaching peak intensity with winds of 140 mph ( 225 km / h ) early on August 9 , Abby slowly weakened , though the storm briefly re-intensified on August 11 . By August 14 , winds had diminished to 100 mph ( 160 km / h ) . Abby finally weakened back into a tropical storm on August 17 not long after making landfall in Japan . The following day , Abby completed the transition to an extratropical cyclone after moving through central Japan . However , meteorologists continued monitoring the storm for six more days .

In the Philippines , heavy rainfall resulted in a landslide that crushed a house in Manila , killing three people . Two others drowned due to rough seas . Typhoon Abby also brought several consecutive days of rain to southern and central Japan , resulting in widespread damage . Commercial traffic by land , sea , and air was also paralyzed by the cyclone , stranding 25 @, @ 900 . Moreover , over 10 @, @ 000 fishing boats took refuge in harbors . Around 3 @, @ 400 homes were flooded and 24 homes were either damaged or destroyed . Additionally , 89 roads were also damaged . About a dozen people were injured during a flash flood that destroyed three houses . Three more dwellings were washed away when a river overflowed its banks . Nationwide , 27 people were hurt and two persons were killed . One person was listed as missing .

= = Meteorological history = =

Typhoon Abby originated from an area of enhanced convective activity southeast of Guam on July 31 . While moving south of Guam , the area failed to organize significantly until August 3 , when thunderstorm activity increased in coverage . Based on this , a Tropical Cyclone Formation Alert was issued at 2300 UTC . Initially , the system struggled to develop a closed atmospheric circulation . However , a Hurricane Hunter aircraft investigated the system early on August 5 and was able to locate a closed surface circulation . Based on this , both the Joint Typhoon Warning Center ( JTWC ) and the Japan Meteorological Agency ( JMA ) upgraded the system into a tropical depression . Following an increase in organization , both agencies upgraded the system into a tropical storm .

Although forecast by the JTWC to move west , Abby instead veered west @-@ northwest while slowly deepening . At 1800 UTC on August 6 , both the JMA and the JTWC upgraded Abby to typhoon status when an eye began to form within the central dense overcast , a large mass of deep convection . On August 7 , the storm began to intensify at a much faster rate than expected by the JTWC . Later that day , the JMA estimated 10 @-@ minute sustained winds of 185 km / h ( 115 mph ) . After briefly leveling off in intensity , the JTWC reported winds of 230 km / h ( 145 mph ) . Twelve hours later , the JTWC estimated maximum winds of 245 km / h ( 150 mph ) , making Abby a super typhoon . Even though a Hurricane Hunter aircraft measured a pressure of 888 mbar ( 26 @. @ 2 inHg ) , the JMA estimated peak winds of 230 km / h ( 145 mph ) and a minimum pressure of 895 mbar ( 26 @. @ 4 inHg ) early on August 9 .

After maintaining peak intensity for several hours , Abby began to weaken as its forward speed slowed . Meanwhile , the JTWC forecast the storm to turn to the northwest around a subtropical ridge . On August 11 , JMA reduced the intensity of the storm to 180 km / h ( 110 mph ) , but several hours later , the storm suddenly restrengthened , attaining winds of 200 km / h ( 125 mph ) . However , this trend was short lived and Abby steadily weakened as it made the long anticipated turn to the northeast in the general direction of Japan . On August 12 , two tropical cyclones developed in the South China Sea , but due to the massive size of Abby , this had little effect on the typhoon . On August 14 , however , the eye of Abby began to become less defined . Based on this , the JTWC decreased the intensity of the storm to 185 km / h ( 115 mph ) while the JMA reported winds of 160 km / h ( 100 mph ) . According to the JMA , the storm maintained its intensity for a day , but on the following day , the storm weakened slightly . By August 16 , wind estimates from both

agencies were equivalent to Category 1 intensity . Continuing to trek north @-@ northwest , the JTWC downgraded into a tropical storm at 0000 UTC on August 17 , . Shortly thereafter , Abby moved ashore Hamamatsu and began to turn northeast , encountering rugged terrain near Tokyo . At noon , the JMA downgraded Abby into a severe tropical storm ; simultaneously , the JTWC classified Abby as an extratropical cyclone . However , the JMA did not follow suit until 1800 UTC on August 18 . Despite being extratropical , the JMA kept monitoring the system until August 24 .

= = Preparations and impact = =

Prior to affecting Japan , rains partially related to the system affected the Philippines . In Manila , a landslide crushed a house . Three teenagers were killed and two others were injured . Furthermore , two women also drowned due to rough seas . On August 12 , although far offshore Japan at that time , high waves were reported along the Pacific coast of Okinawa . Two days later , heavy rains began to drench the nation and continued through August 17 . Throughout the storm , three weather stations recorded more than 1 @,@ 000 mm ( 39 in ) of rain , Amagisan measured a peak total of 1 @,@ 138 mm ( 44 @.@ 8 in ) , Hakone saw 1 @,@ 103 mm ( 43 @.@ 4 in ) , and 1 @,@ 035 mm ( 40 @.@ 7 in ) fell in Lake Yamanaka . Moreover , Amagisan also saw observed 24 @-@ hours and hourly totals of 627 mm ( 24 @.@ 7 in ) and 73 mm ( 2 @.@ 9 in ) respectively .

Typhoon Abby brought widespread damage to Japan , becoming the second storm to strike the country in a week . Ferry services were interrupted to the outer islands of the nation , which stranded 3 @,@ 900 persons in Yoron . Some local air services were also suspended , stranding 4 @,@ 000 tourists . Typhoon alerts were necessitated for Shikoku , Kyushu , and Honshu . At least 10 @,@ 300 fishing boats took refuge in harbors . A swimmer drowned in the lake on the western tip of Honshu ; a fisherman was swept away by high waves off Kamogawa . A dozen people were injured during a flash flood that destroyed three houses just west of Tokyo . Three houses were washed away and two people injured when a river 100 mi ( 160 km ) west of Tokyo overflowed its banks . Major railway lines halted operations throughout central Japan while many other trains arrived late , leaving 18 @,@ 000 individuals stranded . Throughout the nation , 24 homes were damaged or destroyed while 3 @,@ 400 others were flooded , displacing 2 @,@ 700 persons in eight provinces . In all , 19 bridges and two breakwaters were washed away , which resulted in 83 landslides . Eighty @-@ nine roads were damaged , of which 50 were closed , trapping thousands of travelers . Nationwide , 29 people were hurt . However , only two deaths were attributed from the storm , though one person was missing .