

= Tropical Storm Zeke (1992) =

Tropical Storm Zeke was the final named storm of the record @-@ breaking 1992 Pacific hurricane season . Forming out of a tropical wave on October 25 , Zeke began as a disorganized depression . Tracking west @-@ northwestward , the system gradually developed organized convection and intensified into a tropical storm . However , it soon entered a high wind shear environment , causing Zeke to weaken to a tropical depression . The following day , the storm re @-@ intensified despite unfavorable conditions and later attained peak winds of 50 mph (85 km / h) on October 29 . Rapid weakening followed shortly thereafter as convection dissipated and the center became exposed . During the afternoon of October 30 , Zeke degenerated into a remnant low pressure system and dissipated several days later several hundred miles south of Baja California Sur .

On October 29 , tropical storm watches and warnings were issued for portions of the Mexican coastline ; however , these were canceled the following day due to the storm 's rapid weakening . Although the storm did not move over land , its outer bands brought locally heavy rain and gusty winds to Sinaloa and Jalisco .

= = Meteorological history = =

Tropical Storm Zeke originated from a tropical wave that was first identified off the west coast of Africa on October 6 , 1992 . Initially , well @-@ organized convection was associated with the system as it tracked westward ; however , once over the Caribbean Sea , shower and thunderstorm activity diminished . Between October 21 and 23 , the poorly defined wave moved across Central America and entered the Pacific Ocean . Over the following few days , convection gradually increased and the system became better organized . On October 25 , the National Hurricane Center (NHC) to classify it as Tropical Depression Twenty @-@ Seven @-@ E , at which time the storm was situated roughly 805 mi (1 @, @ 295 km) south of the southern tip of Baja California Sur , Mexico . Upon being classified , the depression was relatively disorganized , but deep convection had maintained itself near the center of circulation .

Throughout October 25 , banding features developed and the upper @-@ level outflow became better established . In response to a ridge to the east , the depression tracked in a general west @-@ northwest direction . Intensification was likely as the system was forecast to remain within an environment characterized by low wind shear and warm sea surface temperatures . Later that day , the depression intensified into Tropical Storm Zeke , the record @-@ breaking twenty @-@ fourth named storm of the year . Within several hours of being upgraded , Zeke began to degrade for unknown reasons , with convection lessening around the center . Increasing westerly wind shear , associated with a mid to upper @-@ level trough approaching the west coast of the United States , later caused the system to weaken further ; however , Zeke managed to maintain tropical storm intensity until the morning of October 27 .

As Zeke continued to be hampered by strong shear , it gradually began to turn towards the north as the trough that caused it to weaken moved further east . Late on October 27 , convection redeveloped over the center of circulation , allowing the storm to re @-@ attain tropical storm intensity . The strengthening followed the passage of a shortwave trough ; however , shear over the system remained strong . Despite the unfavorable conditions , Zeke maintained its intensity , through intermittent bursts of convection , and began to turn towards the northeast . Late on October 29 , a large burst of deep convection over the center of the storm allowed for intensification . Around this time , the storm attained its peak intensity with winds of 50 mph (85 km / h) with a barometric pressure of 1000 mbar (hPa ; 29 @. @ 53 inHg) .

Not long after attaining its peak intensity , Zeke began to weaken once more due to increasing westerly wind shear . By the early morning of October 30 , the center of circulation became devoid of thunderstorm activity and the system had turned eastward . Later that day , Zeke weakened to a tropical depression before degenerating into a remnant low pressure system . The NHC continued to monitor the low @-@ level swirl of clouds associated with Zeke for several more days as the system meandered several hundred miles south of Baja California Sur .

= = Preparations , impact and records = =

On October 29 , the forecast track for Zeke produced by the National Hurricane Center indicated that the storm would skirt Baja California before striking the western coast of Mexico as a tropical depression . In response to this , the Government of Mexico issued a tropical storm warning for areas between Cabo San Lázaro and Los Burros . Additionally , a tropical storm watch was raised for areas along mainland Mexico between Los Mochis , Sinaloa and Puerto Vallarta . Roughly 24 hours after these advisories were issued , they were canceled as Zeke rapidly dissipated over open waters . Although the center of the storm never moved over land , the system 's outer bands brought locally heavy rain and gusty winds to parts of Sinaloa and Jalisco . When the National Hurricane Center upgraded Tropical Depression Twenty @-@ Seven @-@ E to Tropical Storm Zeke on October 25 , it marked the first time that a storm name beginning with the letter " Z " was used on record in the basin . Zeke also continued to further the record of named storms in a single season in the eastern Pacific , being the 24th tropical storm .