

= Cyclone Kamba =

Intense Tropical Cyclone Kamba ( JTWC designation : 23S ) was a powerful tropical cyclone which remained out over the open waters of the south @-@ central Indian Ocean for its entire existence . The fourth and final intense tropical cyclone of the 2007 @-@ 08 South @-@ West Indian Ocean cyclone season , Kamba developed out of an area of disturbed weather just outside Météo France 's area of responsibility on March 5 . Over the next several days , the system intensified , becoming a moderate tropical storm , at which time it was named Kamba , late on March 8 @-@ rapid intensification followed shortly after with Kamba becoming an intense tropical cyclone around 1200 UTC on March 10 . Shortly thereafter , the cyclone moved over cooler waters and into a less favorable environment . By March 12 , Kamba rapidly degenerated into a remnant @-@ low pressure area and dissipated two days later .

= = Meteorological history = =

On March 5 , the Regional Specialized Meteorological Centre for the southwest Indian Ocean , Météo @-@ France , began monitoring an area of disturbed weather located just outside their area of responsibility . At 0000 UTC , the system was classified as a tropical disturbance . Operationally , Météo France did not begin issuing advisories on the disturbance until it had crossed 90 ° E. Early on March 7 , the Joint Typhoon Warning Center ( JTWC ) issued a Tropical Cyclone Formation Alert for the disturbance as they anticipated it to develop into a tropical cyclone with 24 hours . Although the center of circulation was partially exposed , deep convection was developing on the western half of the storm as the vertical wind shear , which previously caused it to become exposed , began to weaken . Later that day , Météo France upgraded the disturbance to a tropical depression . About three hours after being classified as a depression , the JTWC began issuing advisories on Tropical Cyclone 23S as they estimated winds to have reached 75 km / h ( 45 mph 1 @-@ minute winds ) .

Late on March 8 , the depression was upgraded to a moderate tropical storm as 10 @-@ minute sustained winds reached 65 km / h ( 40 mph ) . Wind shear continued to impact the organization of the system as the eastern portion of the storm remained partially exposed . Shortly after , the storm was given the name Kamba by the Meteorological service in Mauritius , a name contributed by the Comoros . Tracking towards the southwest , Kamba quickly intensified into a severe tropical storm at 1200 UTC on March 9 as winds increased to 95 km / h ( 60 mph 10 @-@ minute winds ) . Not long after being upgraded to a severe tropical storm , the JTWC estimated that Kamba had strengthened into the equivalent of a Category 1 hurricane with winds of 120 km / h ( 75 mph ) . Early on March 10 , Kamba began to undergo rapid intensification and Météo @-@ France upgraded the storm to a tropical cyclone as an eye developed . At this time , Kamba also started to turn towards the south as it tracked around the northwestern edge of a strong subtropical ridge .

With low wind shear , Kamba continued to intensify throughout the first half of March 10 , reaching its peak intensity with winds of 185 km / h ( 115 mph 10 @-@ minute winds ) with a minimum pressure of 930 hPa ( mbar ) at 1200 UTC according to Météo @-@ France . Kamba developed a 46 km ( 28 mi ) wide eye as it reached peak intensity . Shortly after , the JTWC upgraded Kamba to a Category 4 equivalent cyclone with winds of 215 km / h ( 135 mph 1 @-@ minute winds ) . By March 11 , Kamba began to move over cooler waters and into an area of higher wind shear , causing the storm to deteriorate . About 24 hours after reaching peak intensity , the storm began to undergo an extratropical transition and weakened to a tropical cyclone . Early on March 12 , the JTWC issued their final advisory on Kamba as it rapidly weakened over open waters . At the same time , Météo @-@ France further downgraded the cyclone to a severe tropical storm as winds dropped below 120 km / h ( 75 mph 10 @-@ minute winds ) . Kamba further weakened to a moderate tropical storm as convection associated with the storm significantly diminished . The final advisory by Météo @-@ France was issued shortly after as the storm degenerated into a remnant @-@ low pressure area . The remnants of Kamba persisted for a few more days before ultimately dissipating at 0600 UTC on March 14 .

= = Impact = =

As Kamba remained out over open waters for the duration of its existence , there was no impact on any land @-@ masses .