## TROPICAL CYCLONES

## WHAT ARE TROPICAL CYCLONES?

Tropical cyclones are low pressure systems over tropical or sub-tropical waters, with storm activity and circulating winds at low levels. The storm can be five to six miles high, and up to 300 to 400 miles wide, though they can be even bigger. These storms can travel as fast as 40 m.p.h., but typically move at speeds of 10-15 m.p.h.



Wind Speed: Less than 39 m.p.h



Wind Speed: 39-73 m.p.h



Wind Speed: 74 m.p.h and above Also Known As: Hurricane/Typhoon

## HOW DO **THEY FORM?**







THE SAFFIR - SIMPSON SCALE

The severity of tropical cyclones is measured using the Saffir - Simpson scale, which assigns a rating based on the current windspeed.





Thanks to the advances in technology, including weather prediction computer models, our ability to forecast the developent of tropical cyclones has greatly improved.

Specialist cyclone forecasting centres around the world stuellite images and weather data to detect cyclones in their early stages. They are tracked once they have been detected, and using statistical and numerical models, forecast how the cyclone might develop.

Ships at sea also provide observations, as well as specially designed, reinforced aircraft. These aircraft are fitted with state-of-the-art instruments, and fly through and over tropicl cyclones.

All of these methods have greatly improved our knowledge of cyclones, and our ability to predict and forecast their arrival.

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