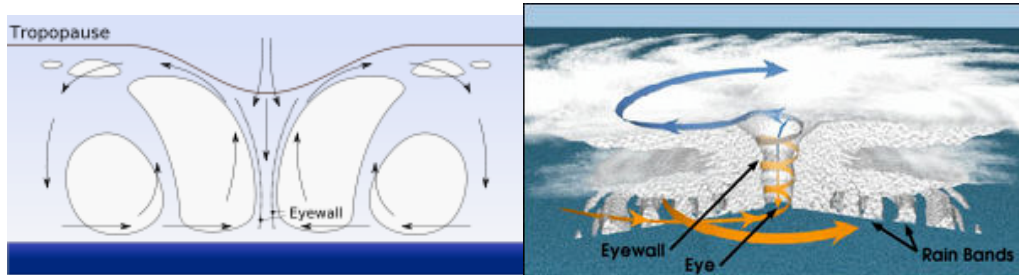


Hurricanes

Hurricanes are sometimes referred to as tropical cyclones. They are formed over warm waters where the sun heats the water and evaporates and rises and the warm wet air condenses and sinks back down and repeats again. This process is helped by solar heat which also helps the air currents. These start with no spin but as they move the Coriolis Effect which gives it a spin depending on the hemisphere it is in. Like how in the northern hemisphere the rotation will be counter clockwise and in the southern hemisphere the rotation will be clockwise.



Hurricanes are measured in ROCI which is done by “measuring the distance from its center of circulation to its outermost closed isobars” the distance is measured in latitudes which are 111 kilometers each and it ranges from 2 and up.

ROCI	
Less than 2 Latitude	Very Small/Midget
2-3 Latitude	Small
3-6 Latitude	Medium/Large
6-8 Latitude	Large
More than 8 Latitude	Very Large

The eye of the hurricane has the lowest atmospheric pressure seen at sea level and is very calm but there can still be harsh waves coming from the wind going on outside the eye. Also there is a ridiculous amount of power in hurricane they “estimate that a tropical cyclone releases heat energy at the rate of 50 to 200 exajoules (10^{18} J) per day, equivalent to about 1 PW (10^{15} watt). This rate of energy release is equivalent to 70 times the world energy consumption of humans and 200 times the world-wide electrical generating capacity, or to exploding a 10-megaton nuclear bomb every 20 minutes.”

Source: <http://en.wikipedia.org/wiki/Hurricanes>