Identify the three convection cells that operate as part of the global atmospheric circulation model.

Annotate the cross-section of the tropical storm in the centre of the page. Identify the features shown by A-D below. Α.

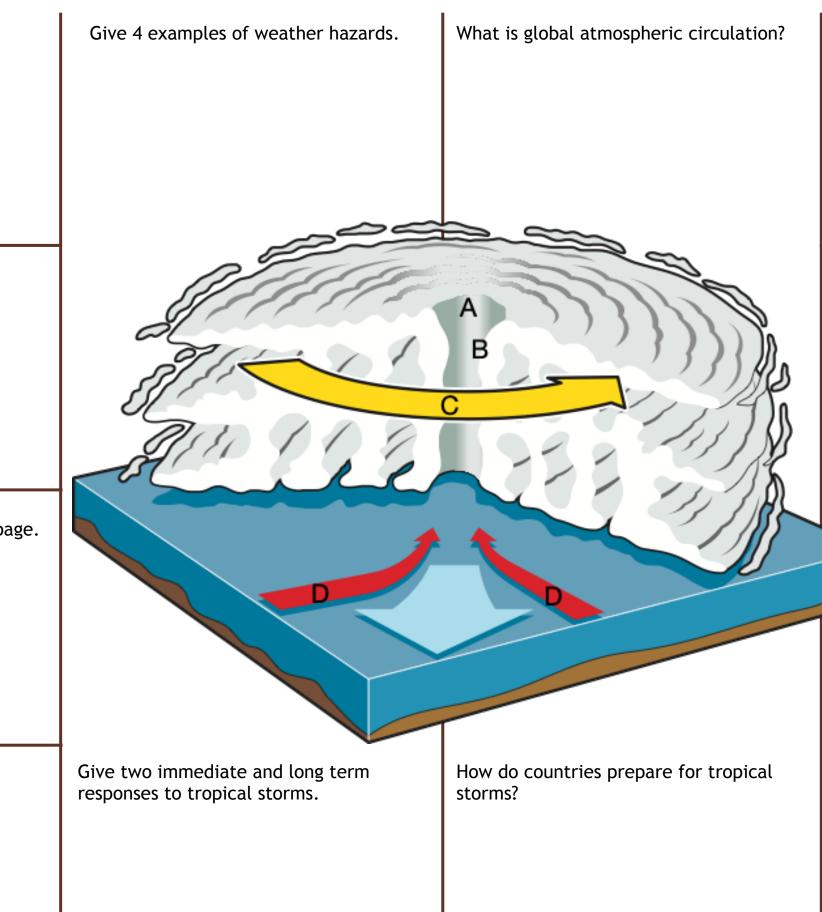
Β.

С.

D.

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Give three effects of tropical storms

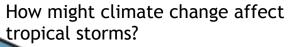




Weather Hazards - Tropical Storms



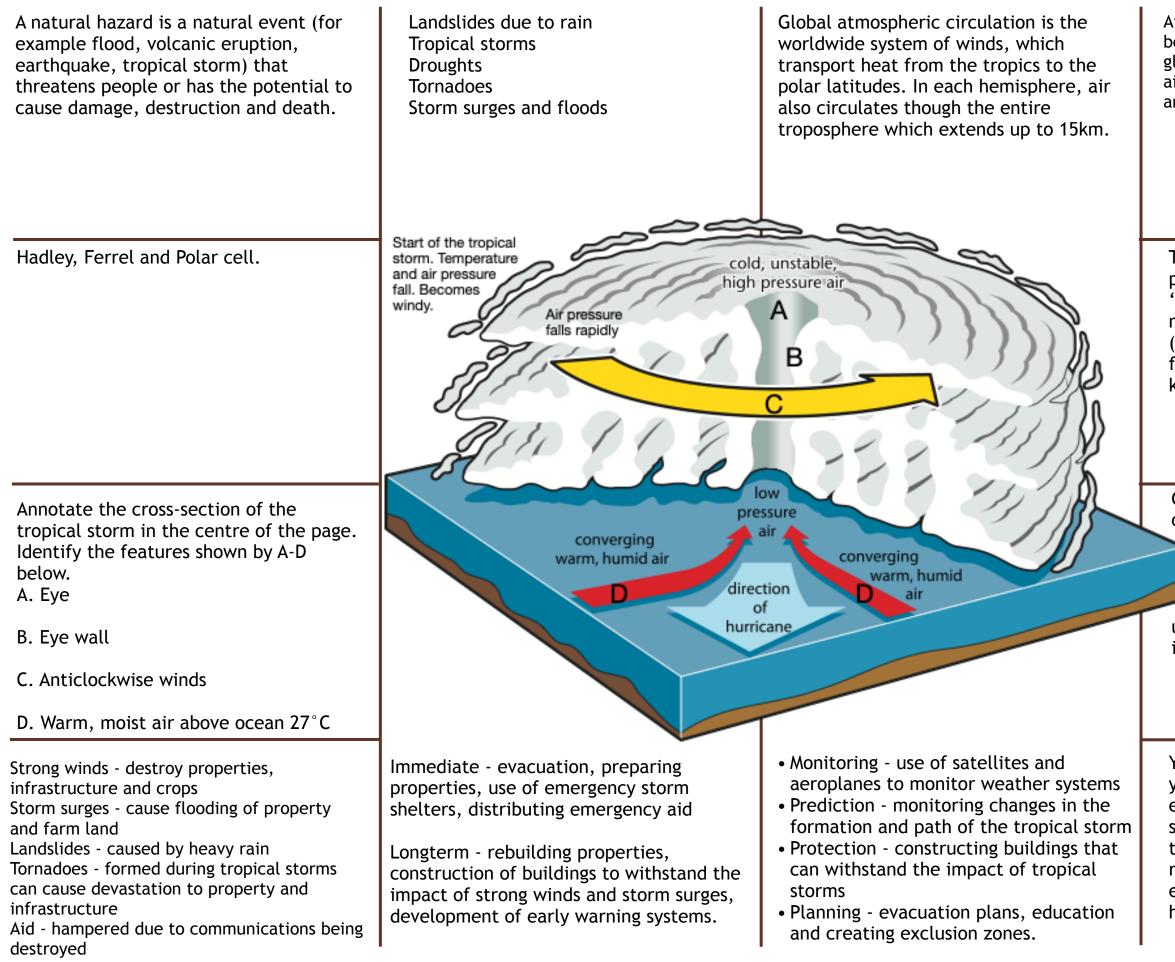
What is a tropical storm?





Give examples of the primary and secondary effects of a tropical storm you have studied, along with the immediate and long term responses.

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Weather Hazards - Tropical Storms



Air at the equator is heated by the sun, it becomes less dense and rise. This creates a global climate zone of low pressure. When the air has risen it begins to flow towards the north and south pole.

Tropical Storms are areas of extreme low pressure. This means air is rising, causing 'low pressure' on the earth's surface. The maximum sustained surface wind speed (using the U.S. 1-minute average) ranges from 34 knots (39 mph or 63 kph) to 63 knots (73 mph or 118 kph).

Greater storm intensity due to warmer oceans. Frequency expected to stay the same, though more severe (cat 4+) expected to increase. There is considerable uncertainly about the impact. Though a growing population and urbanisation in coastal locations has increased the potential risk to life.

Your answer will depend on the case study you have covered. However, you should ensure you identify appropriate primary and secondary effects. Primary effects are those things that happen immediately as the result of a tropical storm whereas secondary effects are the things that happen in the hours, days and weeks after the storm.

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