

Hurricanes Modified

Oceans

Oceans play an important role in shaping our _____ and weather.

Oceans _____.

This heat provides the _____ for storm systems, including hurricanes.

This _____ of warm air and warm seawater spawns storms.

Tropical Depression

Forms when an area of _____ is accompanied by thunderstorms that produce a _____.

Wind Speeds _____

Tropical Storm

A localized, _____ low-pressure system, forming over _____ that include strong _____.

Not all become _____

Wind Speed _____

Low Air Pressure

Tropical depressions, tropical storms, and hurricanes all develop in areas of _____.

This means the air pressure is lower than the _____.

Air pressure is measured with a _____, in millibars.

Use INB template of these modified notes.

Hurricane

A large tropical storm with high powered _____ that move in a _____ direction.

They form in the southern Atlantic Ocean, Caribbean, _____, and eastern Pacific Ocean.

Conditions Needed

Location – _____

Latitude – _____

Pressure – _____

Temperature – _____ (80°F, 27°C)

Wind Shear at high levels – _____

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Cyclones, Hurricanes and Typhoons

Same type _____, different _____

Formation

Energy from the _____ warms the air above it, and the warm air _____ (less dense).

Incoming wind also forces the _____.

Warm moist air hits the _____ unstable air.

The upper winds make the clouds move outward and the cold air _____ (more dense).

Winds flow inward below the clouds creating a _____ around the low pressure _____.

Eye of the Storm

The area of _____ weather at the center of a hurricane.

20-40 miles, 30-65km in diameter

Surrounded by the _____ with most _____ weather

Eye is area of _____

Measurement

Hurricanes are classified into _____ categories by the _____ of their sustained _____.

This scale is used in the Western Hemisphere

Movement

Hurricanes turn _____ because of the _____ caused by the Earth's _____.

A light _____ and the Coriolis Effect allow the hurricane to stay _____.

Coriolis Effect

Because of the Earth's _____, this _____ makes things like planes or storms, which travel at long distances around the Earth, appear to move at a _____ instead of a straight line.

Massive storms in the two hemisphere spin _____ directions.

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Storm Surge

Along with _____ the storm _____ is usually the most damaging part of a hurricane.

Hurricane Tracking

A constantly evolving _____

_____ use satellite images to provide up-to-date information about hurricanes in the Atlantic and Pacific.

Also used are reconnaissance aircraft and _____.

GOES

Supports weather _____

Severe storm _____

Meteorology _____