

Weather vs Climate

Video 1

Storms are caused by the _____, water in the air, and the spin of the earth.

_____ is a process where trade winds slow or stop, and warm sun heats a section of water and the air near the equator causing fish to die and storms to rage around the world. Can cause unseasonably warm weather and more frequent storms.

_____ form when warm moist air is forced up by cool air which carries water vapor which then returns to a liquid and falls as rain, this releases energy in the upper atmosphere which helps drive the winds of the storm. The storm is large enough that it is spun by the _____ of the earth.

Lightning is caused by the flow of _____ from the negatively charged atmosphere to the more positively charged ground.

Tornados take place when _____ of extremely different temperatures collide. Hot air from the heat of the sun is compressed near the surface due to high altitude cold air. Eventually the hot air punches a hole in the cold air and the sudden upward movement causes rotation like a _____ upside down.

The "great spot" storm on Jupiter is maintained due to Jupiter's _____ size and _____ rotation.

Video 2

Why do storm chasers follow storms? Why do they place probes as close to storms as possible?

What will the probes measure?

Climate vs Weather

Define:

Weather:

Climate:

You _____ for the weather, you _____ for the climate.

Climate or Weather

For each situation circle whether the event is climate or a weather. Explain why.

1. A tornado near a small farm in Kansas takes a girl and her dog to oz

Weather

Climate

Why?

2. Forest fires breakout in the Western United States due to longer summers and hotter average temperatures.

Weather

Climate

Why?

3. Crops are lost on a farm due to an abnormal cold-snap.

Weather

Climate

Why?

4. Large chunks of ice block Mr. Brandt's ship in the arctic due to higher temperatures causing melting of glaciers.

Weather

Climate

Why?
