

## Meteorology Trivia Trivia: Questions, Answers, and Facts Printable Trivia Pack

Meteorology Trivia trivia explores the science of Earth's atmosphere, including the patterns, processes, and measurements that shape everyday weather. From early storm watchers to Doppler radar and satellites, meteorology has evolved into a precise field that explains everything from breezes and clouds to hurricanes and heat waves.

### HARD METEOROLOGY TRIVIA

1. What is the name of the low cloud type described as a uniform gray layer rather than a puffy or towering formation?

Answer: Stratus clouds

2. Which exact cloud type fits the description of a low, flat, gray sheet spread across the sky?

Answer: Stratus

3. A sky covered by a featureless gray blanket close to the ground points to what cloud genus?

Answer: Stratus

4. Name the annual Atlantic storm period that begins on June 1 and ends on November 30.?

Answer: The Atlantic hurricane season

5. If someone says the Atlantic basin's official hurricane window closes on November 30, what named season are they referring to?

Answer: The Atlantic hurricane season

6. Which atmospheric feature is best described as a concentrated ribbon of fast upper-level air?

Answer: The jet stream

7. What orbiting tool watches clouds and storms from space rather than from the ground?

Answer: A meteorological satellite

8. Which observing platform monitors storm systems from orbit around Earth?

Answer: A weather satellite

9. Clouds and storms get their picture day from what orbit-based monitoring system?

Answer: A weather satellite

10. Which U.S. organization is responsible for issuing forecasts and warnings nationwide?

Answer: The National Weather Service

11. Inside what thunderstorm feature does hail form?

Answer: Strong thunderstorm updrafts

12. What named effect causes moving air to be deflected on Earth's rotating surface?

Answer: The Coriolis effect

13. Which effect explains why air doesn't simply travel in a perfectly straight path over a rotating Earth?

Answer: The Coriolis effect

14. Which tornado rating system replaced the original Fujita scale in the United States?

Answer: The Enhanced Fujita scale

#### FUNNY METEOROLOGY TRIVIA

1. Which satellite system keeps a nonstop weather watch from geostationary orbit over the Americas, basically refusing to blink?

Answer: GOES satellites

2. What weather modification technique sounds like agriculture met a cumulonimbus and said, "Let's collaborate"?

Answer: Cloud seeding

3. Air rising through the atmosphere cools because lower pressure lets it expand. What is this cooling called?

Answer: Adiabatic cooling

4. On a hurricane map, what is the graphic called that shows the likely track area of the storm center—the one people often stare at like it's a dramatic movie trailer?

Answer: Forecast cone

5. Which prominent scientist is known for Atlantic hurricane research, earning a reputation as a major storm scholar rather than just someone with strong umbrella opinions?

Answer: William Gray

6. Which country is famous for having a major summer monsoon season, when the atmosphere really commits to a seasonal plot twist?

Answer: India

7. What mountain range strongly influences the South Asian monsoon, acting like a giant stony co-star in the weather drama?

Answer: The Himalayas

8. If you want weather observations over the Americas from a satellite that stays fixed relative to Earth, which system are you calling?

Answer: GOES satellites

9. The Southern Oscillation tracks changes in what across the tropical Pacific?

Answer: Pressure

10. What technique tries to modify weather by introducing materials into clouds, which is about as close as science gets to negotiating with the sky?

Answer: Cloud seeding

11. Why does rising air cool: because it gets lower pressure and expands, or because it gets closer to outer space and feels shy?

Answer: Because lower pressure lets it expand

12. On hurricane graphics, what shows the likely track area of the storm centerâ not the size of the stormâ s ego?

Answer: Forecast cone

13. Name the Atlantic hurricane researcher: William Gray or Dorian Gray? One studied storms; the other had very different problems.?

Answer: William Gray

#### FUN METEOROLOGY TRIVIA

1. Which weather tool lets meteorologists spot precipitation inside storm systems without stepping into the rain?

Answer: Weather radar

2. What is the term for the abnormal rise of seawater pushed onshore by a storm?

Answer: Storm surge

3. When colder air advances and its leading edge moves in, what is that boundary called?

Answer: A cold front

4. If warmer air is the one making the move, what do meteorologists call its leading edge?

Answer: A warm front

5. Which scientistâ s name is attached to the temperature scale used for degrees Celsius?

Answer: Anders Celsius

6. Who created the Beaufort wind scale, the system used to describe wind strength?

Answer: Francis Beaufort

7. What instrument rides upward to measure conditions in the upper atmosphere?

Answer: A radiosonde

8. Pilots and forecasters both recognize what coded routine aviation weather report?

Answer: METAR

9. Which observatory is famous for long-term atmospheric measurements, including carbon dioxide monitoring?

Answer: Mauna Loa Observatory

10. What atmospheric setup can act like an invisible lid and trap pollution near the ground?

Answer: A temperature inversion

11. Which meteorology pioneer is especially associated with weather satellites?

Answer: Verner Suomi

12. Which famously blistering place recorded one of the highest reliably measured air temperatures on Earth?

Answer: Death Valley

13. True or false: Weather radar is used to detect precipitation in storm systems.?

Answer: True

#### METEOROLOGY FAMILY TRIVIA

1. What instrument measures atmospheric pressure?

Answer: A barometer measures atmospheric pressure.

2. Which weather event is a violently rotating column of air that reaches the ground?

Answer: A tornado is a violently rotating column of air that reaches the ground.

3. What is lightning?

Answer: Lightning is an electrical discharge in the atmosphere.

4. Which process adds water vapor to the atmosphere?

Answer: Evaporation adds water vapor to the atmosphere.

5. Inside a hurricane, which part is usually the calmest?

Answer: The eye of a hurricane is usually the calmest part of the storm.

6. Who developed the Fujita tornado intensity scale?

Answer: Tetsuya Theodore Fujita developed the Fujita tornado intensity scale.

7. What is the name of the U.S. network of Doppler weather radars?

Answer: The U.S. network of Doppler weather radars is called NEXRAD.

8. What do you call a cloud that forms at ground level?

Answer: Fog is a cloud at ground level.

9. Atlantic tropical cyclones are commonly called what?

Answer: Atlantic tropical cyclones are called hurricanes.

10. Why do we hear thunder after lightning flashes nearby?

Answer: Thunder is caused by rapid heating and expansion of air near lightning.

11. If air is rising, which type of system is it generally associated with?

Answer: Low-pressure systems are generally associated with rising air.

12. What name is given to energy absorbed or released during a phase change?

Answer: That energy is called latent heat.

#### EASY METEOROLOGY TRIVIA

1. What name is used for tropical cyclones in the Western North Pacific?

Answer: Typhoon

2. Which scale is used to classify tornado damage intensity?

Answer: The Fujita scale

3. What scale ranks hurricane intensity?

Answer: The Saffir-Simpson scale

4. El Niño refers to a warming in which part of the ocean?

Answer: The central and eastern tropical Pacific

5. Which ENSO phase is the cool one: El Niño or La Niña?

Answer: La Niña

6. Thunderstorms often form in what type of cloud?

Answer: Cumulonimbus clouds

7. The temperature at which air becomes saturated is called the what?

Answer: The dew point

8. What term compares the amount of water vapor in the air to the maximum it can hold?

Answer: Relative humidity

9. Which hurricane is known for causing catastrophic storm surge along the Gulf Coast?

Answer: Hurricane Katrina

10. Which well-known storm chaser fits this clue?

Answer: Reed Timmer

11. Chicago is famously nicknamed what city?

Answer: The Windy City

12. True or false: In the Western North Pacific, a tropical cyclone is called a typhoon.?

Answer: True

13. If a weather report mentions the Fujita scale, which severe storm is it talking about?

Answer: A tornado

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