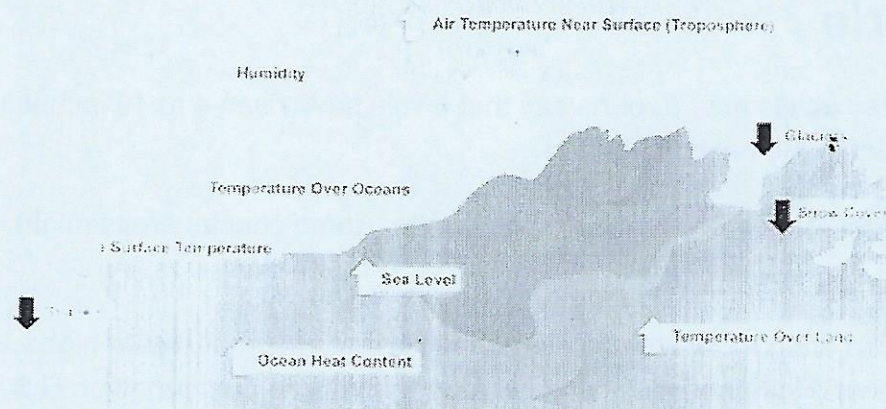


# Watching the Weather

## Ten Indicators of a Warming World



Do you know what the weather will be tomorrow? A weather report can tell you. But what will the weather be like in ten years? Or 20 years? Or 100 years?

No one knows for sure. But some scientists say that our long-range weather outlook isn't good.

Those scientists say the summers will be hotter. They say that warmer, wetter winters are on the way. Severe droughts, floods, wildfires, and storms are also possible.

What's the cause of all those wacky weather changes? Experts say that humans are.

## Warming the Globe

Some weather changes are due to global warming. Global warming happens when gases in the air trap the sun's energy. That energy heats Earth. Without the gases, the energy would escape into space.

Some global warming is good. Without it, Earth would be too cold to live on.

For years, though, humans have created lots of air pollution. The pollution traps more of the sun's heat. In turn, Earth has grown warmer, experts say. This could lead to bad weather.

## Melting the Ice

There are some signs of global warming. One of the signs is happening in the coldest parts of the world.

Near the North and South poles, vast ice sheets are breaking up.

Earth's glaciers (GLAY-shers) are also melting. A glacier is a huge mass of ice that slowly moves. Experts say some glaciers may vanish by the year 2100.

## A Rising Tide

As the ice melts, ocean levels rise. Experts say that levels have risen 4 to 10 inches in the past 100 years. Levels could rise 3 feet in the next 100 years!

High ocean levels might lead to floods along U.S. coasts. Some coastal areas might disappear under water.

That change might also bring more storms. Hurricanes are storms that create high wind and rainfall. They are strongest over water. Higher sea levels might lead to stronger hurricanes on U.S. shores.

## Drying Out

In some areas, though, global warming might lead to drier weather. Dry weather often leads to droughts. A drought is a long period of very dry weather.

Droughts hit parts of the country this year. If experts are right, global warming could cause less rain to fall in the Midwest. This would be hard on plant life and people.

Droughts kill off crops. And dried-out plants and trees could lead to wildfires.

## What's the Answer?

Scientists say that cutting down on air pollution will slow global warming. One way to lower air pollution is to drive less. Cars cause a lot of pollution. People also need to find cleaner ways to make electricity.

Experts aren't sure about the best ways to stop or slow global warming. But they agree that something must be done. The life of future generations depends on it.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. According to the text, what is one negative effect of droughts?

- A. floods
- B. wildfires
- C. storms
- D. pollution

2. In the text, the author describes the problem of global warming. What solution does the author propose for this problem?

- A. The author proposes cutting back on air pollution.
- B. The author proposes melting the glaciers.
- C. The author proposes moving out of some coastal areas.
- D. The author proposes cooling off the Earth.

3. Humans can take action to slow global warming.

What evidence from the text supports this conclusion?

- A. "Scientists say that cutting down on air pollution will slow global warming. One way to lower air pollution is to drive less."
- B. "Some weather changes are due to global warming. Global warming happens when gases in the air trap the sun's energy."
- C. "A glacier is a huge mass of ice that slowly moves. Experts say some glaciers may vanish by the year 2100."
- D. "Droughts hit parts of the country this year. If experts are right, global warming could cause less rain to fall in the Midwest."

4. What does the text suggest?

- A. The droughts in the Midwest will not be difficult for people.
- B. People will drive their cars more in the future and cause more air pollution.
- C. Scientists can definitely know what the weather will be like in 10 years.
- D. There will be big problems in the future if global warming is not stopped.

5. What would be another good title for this text?

- A. How to Predict the Weather
- B. The Weather and You
- C. Weather Problems in the Future
- D. Whether the Weather is Warm or Hot

6. Read these sentences from the text.

Those scientists say the summers will be hotter. They say that warmer, wetter winters are on the way. Severe droughts, floods, wildfires, and storms are also possible. What's the cause of all those **wacky** weather changes?

What does the word "**wacky**" mean?

- A. hot
- B. crazy
- C. rainy
- D. melting

7. Choose the word that best completes the sentence.

Many weather changes are happening \_\_\_\_\_ humans have caused global warming.

- A. and
- B. although
- C. or
- D. because

8. How have humans caused the Earth's weather changes, according to experts?

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9. What signs of global warming might a person in the Midwest be most concerned about?

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