

### **Evidence #1**

Since 1950, Earth's atmosphere and oceans have changed. The amount of carbon released to the atmosphere has risen. Dissolved carbon in the ocean has also risen. More carbon has increased ocean acidity and coral bleaching.

### **Evidence #2**

From 1910 to 1995, record rainfall events increased across the United States. Over the same time period, there was a sharp increase in the amount of carbon released to the air. Much of this carbon comes from fossil fuel use.

### **Evidence #3**

Ocean sea surface temperatures have increased since about 1970. In the North Atlantic, tropical storm power has also increased over this same time period. A storm's power depends on its strength and how long it lasts.

### **Evidence #4**

Since 2000, there have been more intense, extreme, weather events around the world. Record rainfall fell in Europe. The southeastern United States had the most active month of tornadoes. The decade from 2000 to 2010 was the warmest ever

### **Evidence #5**

Frequency and size of large wildfires have increased in the Western U.S. since 1970. Average spring and summer temperatures have also risen in the Western U.S. during this time.

### **Evidence #6**

In the last 100 years, global temperatures have increased. In that same time period, heavy precipitation events have also increased.

### **Evidence #7**

Arctic Ocean sea ice extent has declined, with the Arctic warming at a pace two to three times the planet's average. Over the last decade, record cold temperatures and snowfall have occurred in Europe and Asia.

### **Evidence #8**

Earth's orbit is elliptical. But, the shape of the ellipse is almost a perfect circle. In the Northern Hemisphere, Earth is slightly closer to the Sun in winter than in summer.