

Six Degrees Could Change the World

Currently

1. Scientist's foresee a possible raise of ____ to ____°F or ____°C
2. Australia is experience indicators of climate change. They have had an increase in _____ and _____.
3. In 2001 Sydney experienced _____ bushfires. This event was termed Black Christmas.
4. 6 degrees globally is the difference between now and the last _____ when the ice caps were a mile thick.
5. The escalating use of _____ sources has caused greenhouse gas levels to soar as well.
6. _____ is the hidden price we pay for our energy use.
7. Currently there are _____ ppm of CO₂ in the atmosphere and _____ ppm is considered to be able to raise the world temperature 1-2° C.

1 Degree

1. Arctic could be _____ for half year, the north passage will _____, hurricanes in the _____, drought and a shortage of grain and wheat.
2. Deserts could spread from _____ to _____ destroying much of our agriculture.
3. Climate change is just a change in the climates of the world. This is not always bad. _____ is in the right place at the right time. _____ production is thriving. There are now _____ vineyards in Britain. Unheard of previously _____ from Tuscany can now be planted.
4. It's not climate change itself that is worrisome, it's a natural process, it's the _____ in which it is occurring that is the threat.
5. _____% of the world's energy starts as a fossil fuel (coal, oil, natural gas). The burning of these is the largest source of CO₂ emissions.
6. The carbon impact of the cheeseburgers consumed yearly in America is _____ metric tons of CO₂. Things that have to be considered in the carbon impact are other than cooking:
 - Growing of _____ and _____
 - Feeding of _____
 - Processing of the _____ and _____
 - Keeping the ingredients _____
 - _____ from cattle which is equivalent to _____ units of CO₂
 - _____ of ingredients

2 Degrees

1. _____ disappear, _____ struggle to survive in their habitat, _____ migrate to new areas, new _____ in the Canadian tundra, loss of islands/coats from raising waters.
2. _____ are like the canaries of the coal mine for global warming. At _____°F bleaching occurs because the reef expels the bacteria they need to survive.
3. _____ are the largest carbon sinks.

- Many small organisms can use CO₂ to form their _____ but too much CO₂ makes the oceans _____ and this can cause the shells to _____ and prevent organisms from making new ones.
- Thinning ice has affected the lives of native Greenland hunters. Currently _____ sled dogs are _____ or put down.
- Rivers enter glaciers and create _____ that bring the melt water below the glacier. This lubricates the ground deep below accelerating the glaciers propulsion to the sea.
- Oceans could rise _____ feet in the next century

3 Degrees

- Arctic _____ all summer, _____ dry out, alpine snow caps almost gone, _____ patterns could become normal, _____ could become the normal for the Mediterranean and Central Europe.
- Paris roves designed for cooler weather with _____ to trap heat.
- The heat wave of 2003 was so hot that _____ broke down. The plants retained _____ and released _____. Heat waves like this could be a regular occurrence.
- The rainforest produces _____% of the worlds O₂.
- In 2005 the Amazon river _____. The loss of water that people depend on was so great the Brazilian army had to fly in _____. Fires burned _____ square miles of rainforest.
- Deforestation will create a positive feedback loop. Drought to _____ to drought. The resulting loss of forests will return a lot of CO₂ to the atmosphere.
- Super storms would be more prevalent. Winds of Hurricane Katrina reached _____ mile per hour.
- Hurricanes are currently measure on a _____ magnitude scale. It is thought we could experience storms of _____ magnitude.

4 Degrees

- Oceans rise, floods, many cities built on coast lines would be lost, glaciers gone, water lost to billions, Northern Canada could become bountiful _____, and Antarctic ice shield could collapse raising sea levels further.
- The Himalayan glacier is outside of the polar ice caps largest _____ and it's receding.
- It is predicted the glacier could be gone by _____. More than a _____ people would lose their access to fresh water.
- One strategy against massive flooding is massive sea gates. New York would require _____. Great Britain invested billions to install them on the _____ river already.

5 and 6 Degrees

- Oceans would be marine _____. Deserts across _____. Mass extinctions and massive flooding.
- Appliances use energy even when off have _____ loads. These commonly have little red lights when off.
- We are currently at _____ degrees of the 6 discussed in the movie. How can you reduce your energy consumption?

