

1 The amount of carbon dioxide in the upper layer of the atmosphere is increasing by about 2 billion tons per year.

2 Since the beginning of the Industrial Revolution, the acidity of surface ocean water has increased by about 30 percent.

3 The extent and thickness of Arctic sea ice has declined rapidly over the last several decades.

4 Sea level rose about 8 inches in the century. The rate in the last two centuries has been accelerating slightly.

5 Satellite observations reveal that the amount of snow cover in the Northern Hemisphere has decreased over the past five decades and that the snow is melting earlier.

6 Glaciers are retreating almost everywhere around the world including in the Alps, Himalayas, Andes, and Africa.

7 The rate of Antarctic ice mass loss has tripled in the last decade.

8 Eleven percent of the world's population is currently vulnerable to climate change impacts.

9 The average size of vertebrate (mammals, fish, birds and reptiles) populations declined by 68 percent between 1970 and 2014.

10 There's more carbon dioxide in our atmosphere than any time in human history.

11 The frequency of extreme weather events in the last 20 years were influenced by humans.

12 120,000 square kilometres of tropical forest were lost in 2018.

13 Heat waves caused by global warming present greater risk of heat stroke and death, most frequently for people who have diabetes who are very young.

14 As the ocean warms, scientists predict that coral reefs will not be able to adapt quickly enough to the resulting changes in ocean conditions, leading to coral bleaching and a decline in biodiversity.

15 Average sea level is expected to rise 7-10 feet by the end of this century.

16 More than 1,000 species face potential extinction as a result of disappearing habitats, changing ecosystems, and other factors.

17 The Arctic region may experience a completely ice-free summer by 2050.

18 The most abundant greenhouse gas accounting for about two-thirds of greenhouse gases, carbon dioxide, is largely the product of burning fossil fuels.

19 2019 concluded a decade of exceptional global heat, retreating ice and record sea levels driven by greenhouse gases produced by human activities.

20 Based on today's insufficient global commitments to reduce climate polluting emissions, emissions must track to reach 56 Gt CO<sub>2</sub>e by 2030, if they should be.

21 60% of the planet's wild coffee species face extinction.

22 On Earth, 18 of the last 19 years have been the warmest in recorded history. Eleven percent of all global greenhouse gas emissions caused by humans are caused by the aviation and shipping industries.

23 The concentration of carbon dioxide (CO<sub>2</sub>) in our atmosphere, as of 2018, is the highest it has been in 3 million years.

24 There is more carbon dioxide in the atmosphere today than at any point in the last 800,000 years.

25 According to the U.S. Global Change Research Program, the temperature has increased by 2 degrees in the last century and precipitation has increased by 5%.