Annual Data | Atmospheric CO2

The 2012 average annual concentration of CO2 in the atmosphere (Mauna Loa Observatory) is 393.84 parts per million (ppm). The 2011 average is 391.65 ppm.

For the past decade (2003-2012) the average annual increase is 2.1 ppm per year. The average for the prior decade (1993-2002) is 1.7 ppm per year. Annual data for 2012 was first posted January 3, 2013, by the Scripps Institution of Oceanography in the United States.

Since the 1958 start of precision CO2 measurements in the atmosphere, the annual mean concentration of CO2 has only increased from one year to the next. The CO2 data below provide a simple view of the annual trend.

2012 2011 2010 2009 2008 2007 2006	393.84 391.65 389.92 387.35 385.45 383.61 381.83	Copenhagen Accord
1997 1992 1987 1959	363.76 356.37 348.93 315.98	Kyoto Protocol Earth Summit in Rio de Janeiro The last year when the annual CO2 level was less than 350 ppm The first year with a full year of instrument data

Source Annual CO2 Data: Scripps Institution of Oceanography: CO2 Program

More Information:

Year

CO₂ (ppm)

Notes

Annual and monthly data for atmospheric CO2 | 1958 - present | MLO / Scripps & NOAA

Accelerating rise of atmospheric CO2

Seasonal fluctuation in atmospheric CO2

Monthly data for atmospheric CO2

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