

CO2 Now

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What the world needs to watch

Global warming is mainly the result of CO2 levels rising in the Earth's atmosphere. Both atmospheric CO2 and climate change are accelerating. Climate scientists say we have years, not decades, to stabilize CO2 and other greenhouse gases.

Earth's CO2 Home Page To help the world succeed, CO2Now.org makes it easy to see the most current CO2 level and what it means. So, use this site and keep an eye on CO2. Invite others to do the same. Then we can do more to send CO2 in the right direction.

[CLICK HERE](#) for daily CO2Now data updates.

Watch CO2 now and know the score on global warming, practically in real time.

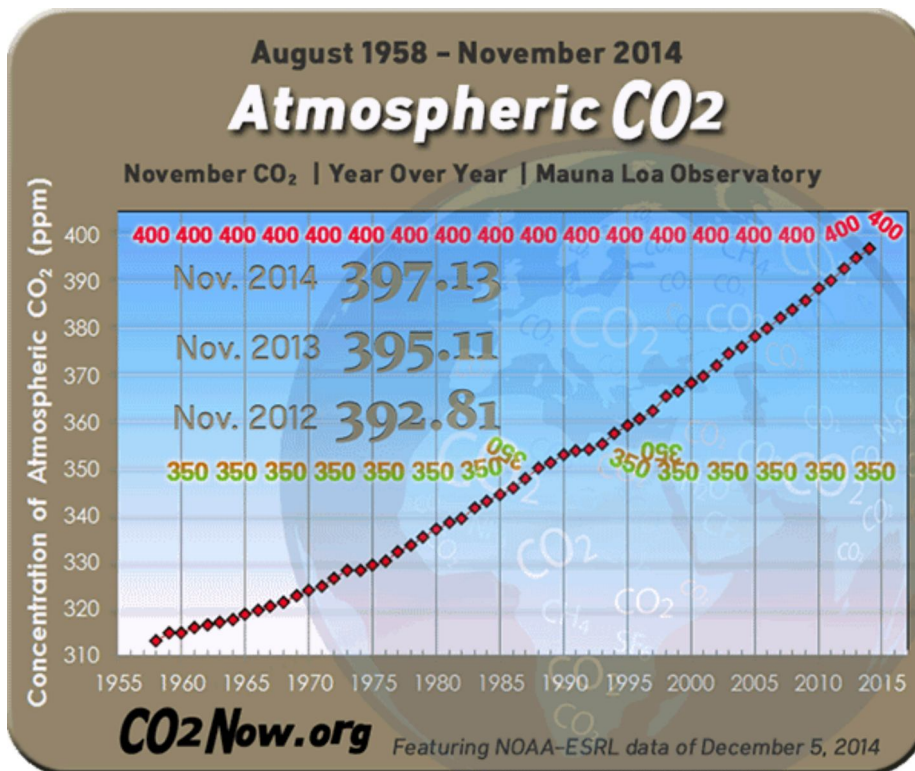
397.13 ppm

Atmospheric CO₂ for November 2014

Preliminary monthly average as of December 5, 2014

(Mauna Loa Observatory: NOAA-ESRL)

NOTE: On May 10, 2013, *NOAA & Scripps* first reported daily averages that temporarily reached 400 ppm.



CO₂ Data Set:

Original Scripps CO₂ data file dated Friday December 5, 2014

Measuring

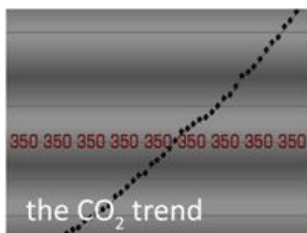
Location: Mauna Loa Observatory, Hawaii

Why is CO2 significant? Carbon dioxide (CO₂) is the chief greenhouse gas that results from human activities and causes global warming and climate change. To see whether enough is being done at the moment to solve these global problems, there is no single indicator as complete and current as the monthly updates for atmospheric CO₂ from the [Mauna Loa Observatory](#).

What is the current trend? The concentrations of CO₂ in the atmosphere are increasing at an accelerating rate from decade to decade. The latest atmospheric CO₂ data is consistent with a continuation of this long-standing trend.

What level is safe? The upper safety limit for atmospheric CO₂ is 350 parts per million (ppm). Atmospheric CO₂ levels have stayed higher than 350 ppm since early 1988.

Accelerating Rise of Atmospheric CO₂



Atmospheric CO₂ is accelerating upward from decade to decade.

For the past ten years, the average annual rate of increase is 2.07 parts per million (ppm). This rate of increase is more than double the increase in the 1960s.

See the table below.

Read more...

Current Data for Atmospheric CO₂



The world's most current data for atmospheric CO₂ is measured at the **Mauna Loa Observatory** in Hawaii. Measurements are made and

reported independently by two scientific institutions: **Scripps Institution of Oceanography** and the **National Oceanic and Atmospheric Administration** (NOAA). Monthly data is posted below.

Mauna Loa CO2 Data Sets:

Monthly **NOAA CO2 Data**
Weekly NOAA CO2 Data

Monthly **Scripps CO2 Data**
Daily Scripps CO2 Data

Global Carbon Emissions

<http://forio.com/simulation/climate-development/>



Global CO2 Budget 2014

GlobalCarbonProject.org posted data for the **2014 Global Carbon Budget** on September 21, 2014. Some key findings are set out below:

*In 2013, global CO₂ emissions due to fossil fuel use (and cement production) were 36 gigatonnes (GtCO₂); this is 61% higher than 1990 (the Kyoto Protocol reference year) and 2.3% higher than 2012.

*In 2014, global CO₂ emissions are projected to increase by an additional 2.5% over the 2013 level.

*CO₂ emissions were dominated by China (28%), the USA (14%), the EU (10%), and India (7%)--with growth in all of these states except for a 1.8% decline in the

Cause and Effect

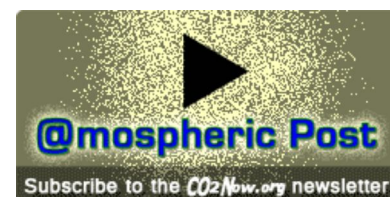
Climate System
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Presentations

Know CO₂

The Need to Know CO₂
CO₂ Monitoring

Know GHGs

Emissions
Methane | CH₄
All Greenhouse Gases



EU (28 member states).

*The 2013 carbon dioxide emissions (fossil fuel and cement production only) breakdown is: coal (43%), oil (33%), gas (18%), cement (5.5%) and gas flaring (0.6%).

*Emissions from land use change accounts for 8% of total CO2 emissions; the data suggests an overall decreasing trend in land use change emissions particularly since 2000.

*Key Sources: GlobalCarbonBudget.org CDIAC 2013 Global Carbon Budget

>>>> Links to the source data, credits and high-resolution images are given below.



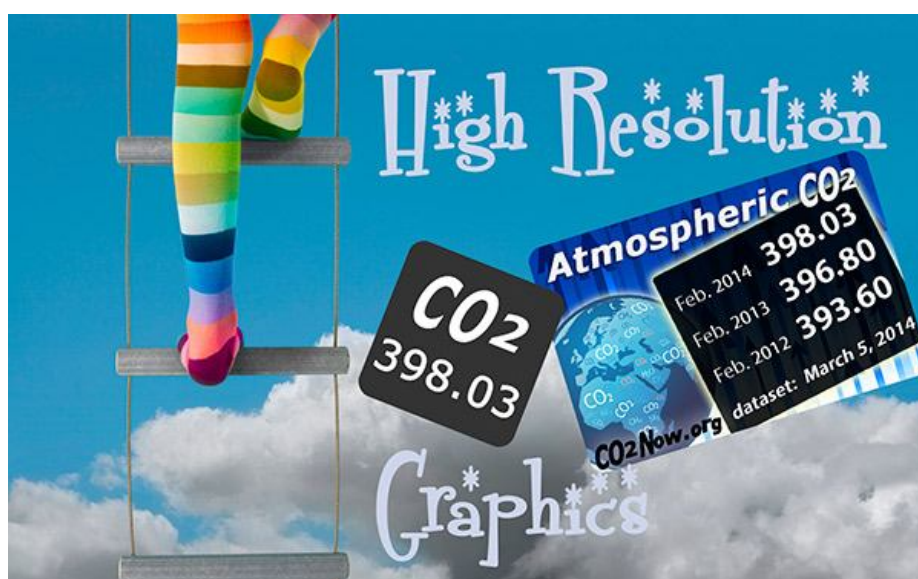
CO2 last week: 399.64 ppm Weekly



RSS 2.0

Read more...

High Resolution CO2 Graphics



Show the latest readings for atmospheric CO2 far and wide--and update them very month. Since 2008, CO2Now.org has been helping webmasters show the rising CO2 trend with CO2Now website widgets.

As of 2014, high-resolutions versions of the widget graphics are now available for

use by anyone, anywhere. Use the graphics to show the CO2 numbers and trend in your media presentations, printed posters, newsletters, or books. Download the graphics [here](#)...

[Read more...](#)

Annual Data | Atmospheric CO₂



CO₂ The 2013 average annual concentration of CO₂ in the atmosphere (Mauna Loa Observatory) is 396.48 parts per million (ppm). The 2012 average is 393.82 ppm.

For the past decade (2004-2013) the average annual increase is 2.1 ppm per year. The average for the prior decade (1994-2003) is 1.9 ppm per year. Annual data for 2012 was first posted January 9, 2014, by NOAA-ESRL 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.

[Read more...](#)

Global Temperature Update

October 22, 2014

Globally, September 2014 was the warmest September since global temperature records began in 1880. The coolest on record is September 1912. [NOAA Global Monthly Analysis]

Annually, 2013 tied 2003 as the 4th warmest year globally since 1880. Nine of the ten warmest years in the past 134 years occurred since the Year 2000. Only one year during the 20th Century--1998--was warmer than 2013. [NOAA Global Analysis 2013]

Recent News:

September was Warmest on Record, NASA Data Shows [Climate Central]

NASA ranks August 2014 as the warmest August on record. [Climate Central]

"The science is sobering—the global temperature in 2012 was among the hottest since records began in 1880. Make no mistake: without concerted action, the very future of our planet is in peril."

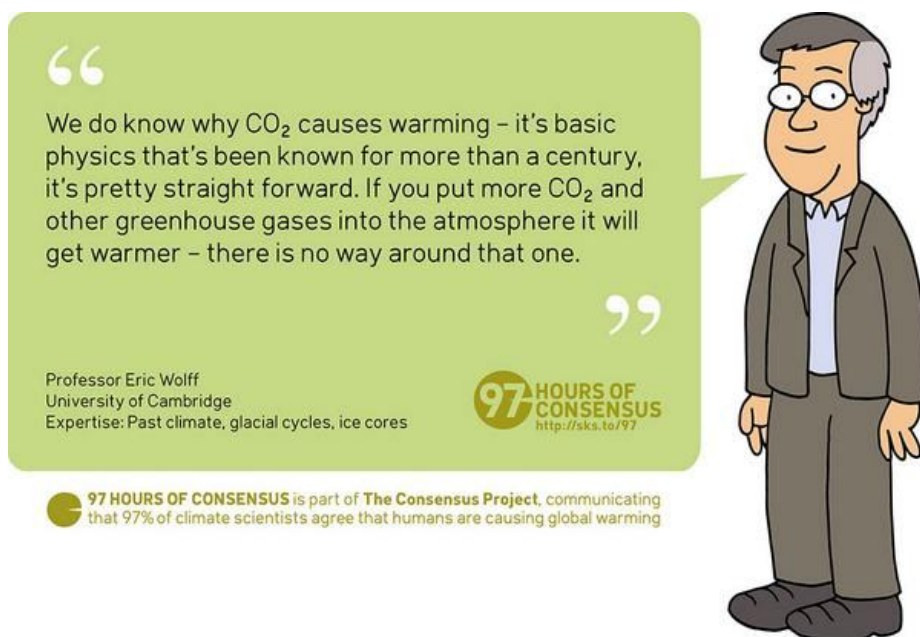
~ Christine Lagarde, Managing Director
International Monetary Fund

[video][text]

Read more...

Scientists Are Speaking

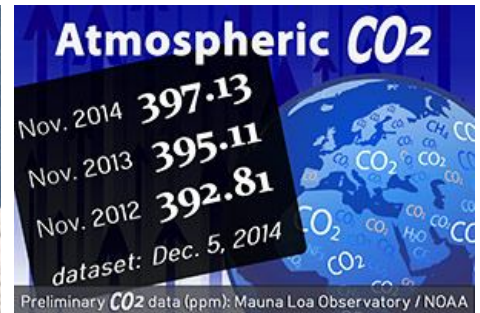
Scientists are speaking. 97 of them. Since September 7, 2014, the founder of SkepticalScience.com, John Cook, has been releasing quotes by distinguished scientists from around the world. One each hour. The quotes (and graphics) are on the SkepticalScience twitter feed and website. Here is one that John produced...number 42 of 97...featuring the words and drawing of Professor Eric Wolff...



Scientists are saying that global warming is happening. That it's caused by certain human activities. And that impacts are very large and very long-term. Lots of them are saying these things. Almost all of them are. But rather than rely on this summation, see what scientists are saying in their own words. Notice who is saying it. If you agree with us that others should hear what these eminent scientists are saying, you are welcome to retweet or link or repost. It all helps to inform and expand the conversation....

Latest News

- @mospheric Post | April 22, 2012
- @mospheric Post | May 30, 2011
- @mospheric Post | May 14 2011
- @mospheric Post | Apr 15 2011
- @mospheric Post | Apr 7 2011
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CO2Now.org | See CO2. Know CO2. Show CO2. Stabilize CO2.

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