

NOTICE (March 2018): This website provides access to the CDIAC archive data temporarily. It will be gradually transitioned into data packages in the new [ESS-DIVE archive](#). This site will continue to operate in parallel during and after the transition, and will be retired at a future date. If you have any questions regarding the data or the transition, please contact ess-dive-support@lbl.gov.



Carbon Dioxide Information Analysis Center
Oak Ridge National Laboratory
Oak Ridge, Tennessee 378931-6290

Carbon Dioxide Information Analysis Center

- [About CDIAC](#)
 - [Home](#)
 - [FAQ](#)
 - [Permission to Use Data](#)
 - [Contact Us](#)
- [Data](#)
 - [Fossil-Fuel CO₂ Emissions](#)
 - [Trace Gas Emissions](#)
 - [Atmospheric Trace Gases & Aerosols](#)
 - [Oceanic Trace Gases](#)
 - [Carbon Cycle](#)
 - [Terrestrial Carbon Management](#)
 - [Vegetation Response to CO₂ & Climate](#)
 - [Climate](#)
 - [Land-Use & Ecosystems](#)
- [Resources](#)
 - [Recent Greenhouse Gas Concentrations](#)
 - [Latest Global Carbon Budget Estimates](#)
 - [Illustration of the Global Carbon Cycle](#)
 - [Climate.gov](#)
 - [U.S. Global Change Research Program](#)
 - [U.S. Energy Information Administration](#)
 - [Intergovernmental Panel on Climate Change Reports](#)
 - [Educational Links](#)

•

Global Carbon Project



[2016 Budget v1.0](#)

(November 2016)



[National Emissions v1.0](#)

(November 2016)



[2015 Budget v1.1](#)

(December 2015)

Data



[National Emissions v1.1](#)

(December 2015)



[2015 Budget v1.0](#)

(November 2015)

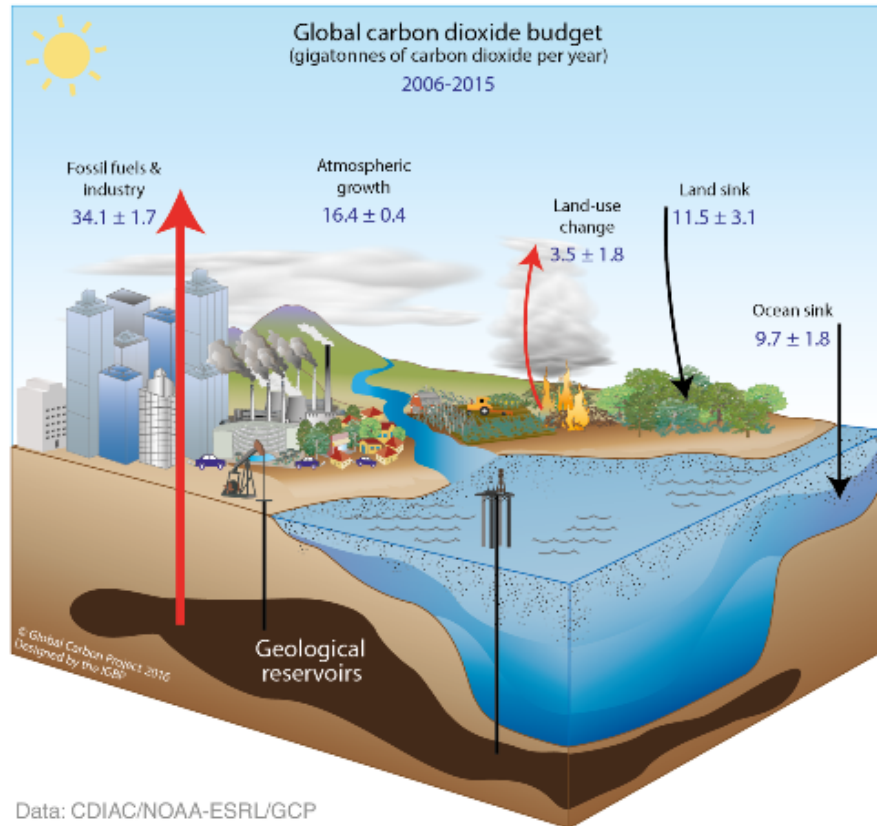


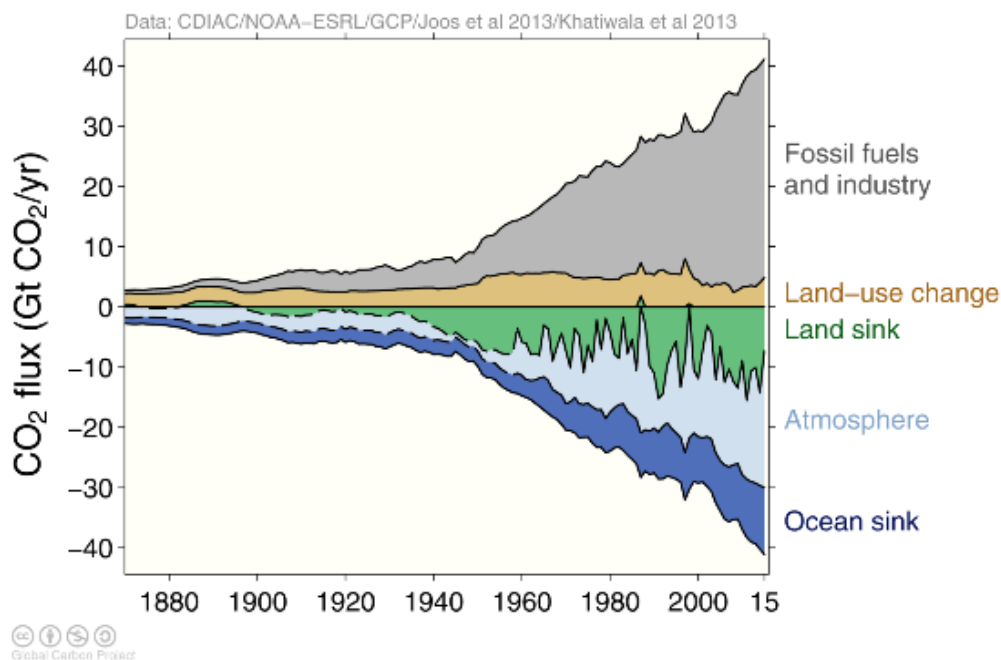
[National Emissions v1.0](#)

(November 2015)

- [2014 Budget v1.1](#) (May 2015)
- [2014 Budget v1.0](#) (September 2014)
- [2013 Budget v2.4](#) (July 2014)
- [2013 Budget v2.3](#) (June 2014)
- [2013 Budget v1.3](#) (December 2013)
- [2012 Budget v1.5](#) (April 2013)
- [2012 Budget v1.3](#) (December 2012)
- Web Pages**
 - [2016 Budget](#) (November 2016)
 - [2015 Budget](#) (December 2015)
 - [2014 Budget](#) (September 2014)
- Papers**
 - [Global Carbon Budget 2016 paper](#) (published November 2016)
 - [Global Carbon Budget 2015 paper](#) (published December 2015)
 - [Global Carbon Budget 2014 paper](#) (published May 2015)
 - [Global Carbon Budget 2013 paper](#) (published June 2014)

Full Global Carbon Budget





The Global Carbon Budget is a collaborative effort of the global carbon cycle science community coordinated by the [Global Carbon Project](#). The latest available data are [doi: 10.3334/CDIAC/GCP_2016](https://doi.org/10.3334/CDIAC/GCP_2016), which were released November 13, 2016. The most recent published paper is "[Global Carbon Budget 2016](#)" (doi:10.5194/essd-8-605-2016, November 2016).

The global carbon budget refers to the mean, variations, and trends in the anthropogenic perturbation of CO₂ in the atmosphere, referenced to the beginning of the industrial era. It quantifies the input of CO₂ to the atmosphere by emissions from human activities, the growth of CO₂ in the atmosphere, and the resulting changes in land and ocean carbon fluxes in response to increasing atmospheric CO₂ levels, climate change and climate variability, and other anthropogenic and natural changes. An understanding of this perturbation budget over time and the underlying variability and trends of the natural carbon cycle are necessary to understand and quantify climate-carbon feedbacks.



[Privacy & Security Notice](#) · [Berkeley Lab](#) · [ESS-DIVE](#) · [Contact Us](#) · *This page was last modified: 11/14/16.*