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Scripps CO₂ Program

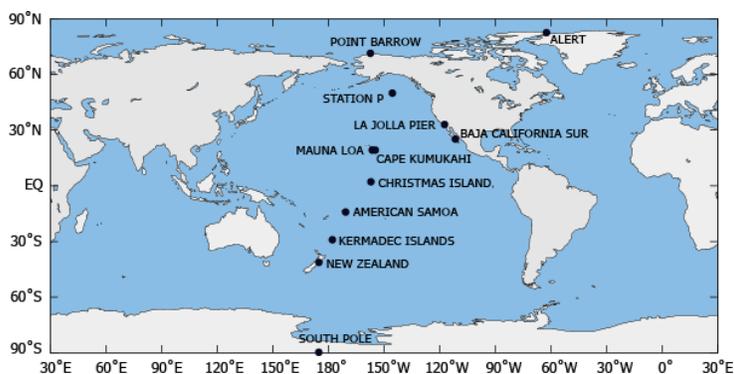


— Main Menu

Carbon Dioxide Measurements

This site provides access to products from the Scripps CO₂ Program and serves as a tribute to its founder
Charles David Keeling

Scripps CO₂ Sampling Stations

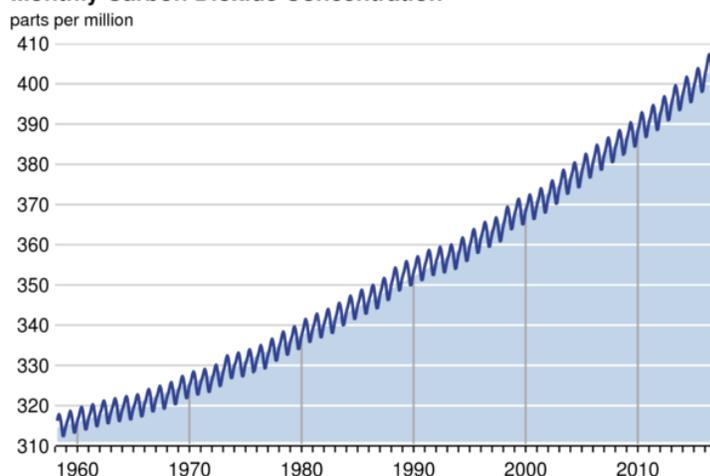


The primary (in situ) record from Mauna Loa Observatory, Hawaii is based on measurements made with an analyzer at the site. At all other sampling stations, the records are based on flask samples returned to our La Jolla laboratory for analysis. Flasks have also been redundantly collected at Mauna Loa. Isotopic measurements on flask samples of the ¹³C/¹²C and ¹⁸O/¹⁶O ratios of CO₂, which we began in 1978, have gradually been expanded to include all stations where we measure the CO₂ concentration.

The Keeling Curve

CO₂ Concentration at Mauna Loa Observatory, Hawaii

Monthly Carbon Dioxide Concentration



Acknowledgements

Measurements by the Scripps CO₂ program are supported

The Scripps CO₂ program was initiated in 1956 by Charles David Keeling and operated

under his direction until his passing in 2005. It is currently being continued by Ralph F. Keeling, who also runs a parallel program at SIO to measure changes in atmospheric O₂ and Ar abundances ([Scripps O₂ Program](#)).

Current results, including data sets and graphics, are available here from the ongoing program to measure CO₂ and chemical species.

For daily updates of the CO₂ Concentration at Mauna Loa Observatory, Hawaii, see keelingcurve.ucsd.edu

by the [U.S. Department of Energy \(DOE\)](#) and by [Earth Networks](#), a technology company that is collaborating with Scripps to expand the global GHG monitoring network.

In kind support for field operations is also provided by the [National Oceanographic and Atmospheric Administration \(NOAA\)](#), the [National Science Foundation \(NSF\)](#), [Environment Canada](#), and the [New Zealand National Institute for Water and Atmospheric Research \(NIWA\)](#).

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