

Société de Calcul Mathématique SA

Tools for decision help

Since 1995



CO₂

References

Extract of the white paper drawn up by the SCM
First redaction: August 2015

[Beck] 180 Years of atmospheric CO₂ gas analysis by chemical methods. Available at:
<<http://www.friendsofscience.org/assets/files/documents/CO2%20Gas%20Analysis-Ernst-Georg%20Beck.pdf>> [accessed 05/07/2015]

[Delmas] Delmas RJ (1993) A natural artefact in Greenland ice-core CO₂ measurements. *Tellus* 45B:391-396

[Vostok data] Raw data for Vostok
Available at: <<http://cdiac.ornl.gov/ftp/trends/co2/vostok.icecore.co2>>
[accessed 05/07/2015]

Associated references:

Barnola, J.-M., Raynaud, D., Korotkevich, Y. S. and Lorius, C. : Vostok ice core provides 160,000-years record of atmospheric CO₂, *Nature*, 329, 408–414, 1987.

[DomeC data] Raw data for Dome C: Available at:
<ftp://ftp.ncdc.noaa.gov/pub/data/paleo/icecore/antarctica/epica_domec/edc-co2>

2008.txt>[accessed 05/07/2015]

[LawDome data] Raw data for Law Dome:

Available at: <ftp://ftp.ncdc.noaa.gov/pub/data/paleo/icecore/antarctica/law/law_co2.txt>
[accessed 05/07/2015]

MacFarling Meure, C., D. Etheridge, C. Trudinger, P. Steele, R. Langenfelds, T. van Ommen, A. Smith, and J. Elkins. 2006. The Law Dome CO₂, CH₄ and N₂O Ice Core Records Extended to 2000 years BP. *Geophysical Research Letters*, Vol. 33, No. 14, L14810 10.1029/2006GL026152.

[Beerling] D. J. Beerling, H. H. Birks, F. I. Woodward, *J. Quat. Sci.* 10, 379 (1995)

[Fischer] Fischer, H., M. Wahlen, J. Smith, D. Mastroianni, and B. Deck, 1999, Ice core records of Atmospheric CO₂ around the last three glacial terminations, *Science* 283, 1712-1714.

[Wagner] Friederike Wagner, Bent Aaby, Henk Visscher, Rapid atmospheric CO₂ changes associated with the 8,200-years-B.P. cooling event, 2002 *Proceedings of the National Academy of Sciences PNAS*, volume 99, issue 19, pp. 12011 - 12014

[Indermühle] Holocene carbon-cycle dynamics based on CO₂ trapped in ice at Taylor Dome, Antarctica A. Indermühle*, T. F. Stocker*, F. Joos*, H. Fischer², H. J. Smith², M. Wahlen², Deck², D. Mastroianni², J. Tschumi*, T. Blunier*, R. Meyer* & B. Stauffer* * Climate and Environmental Physics, Physics Institute, University of Bern, Sidlerstrasse 5, CH-3012 Bern, Switzerland

[BritishAntarticSurvey] Ice cores and climate changes. Available at:

<http://www.antarctica.ac.uk/bas_research/science_briefings/icecorebriefing.php>

[Lüthi] Lüthi, D., M. Le Floch, B. Bereiter, T. Blunier, J.-M. Barnola, U. Siegenthaler, D. Raynaud, J. Jouzel, H. Fischer, K. Kawamura, and T.F. Stocker. 2008. High-resolution carbon dioxide concentration record 650,000-800,000 years before present. *Nature*, Vol. 453, pp. 379- 382, May 15, 2008.

[Boden] NOAA, Basics of the Carbon Cycle and the Greenhouse Effect, Boden, T.A., G. Marland, and R.J. Andres. 2009.

Available at: <<http://www.esrl.noaa.gov/gmd/ccgg/basics.html>> [accessed 05/18/2015]

[NOAA_Data Finder] NOAA, ESRL/GMD FTP Data Finder. Available at: <http://www.esrl.noaa.gov/gmd/dv/data/index.php?category=Greenhouse%2BGases¶meter_name=Carbon%2BDioxide> [accessed 05/18/2015]

[Tans and Thoning] NOAA, How we measure background CO₂ levels on Mauna Loa. Available at: <http://www.esrl.noaa.gov/gmd/ccgg/about/co2_measurements.html> [accessed 05/18/2015]

[ESRL] NOAA, Measuring & Analyzing Greenhouse Gases: Behind the Scenes. Available at: <http://www.esrl.noaa.gov/gmd/ccgg/behind_the_scenes/index.html> [accessed 05/18/2015]

[Tans] NOAA, Trends in Atmospheric Carbon Dioxide. Available at: <<http://www.esrl.noaa.gov/gmd/ccgg/trends/>> [accessed 05/18/2015]

[Eschenbach] WUWT, What's up with that. Available at: <<http://wattsupwiththat.com/2010/06/04/under-the-volcano-over-the-volcano/>> [accessed 05/18/2015]

[Fisher] Ice Core Records of Atmospheric CO₂ Around the Last Three Glacial Terminations. Science. March 12, 1999.

Available at: <<http://core.ac.uk/download/pdf/11744931.pdf>> [accessed 08/12/2015]

[Parrenin] The EDC3 chronology for the Epica Dome C ice core. 2007.

Available at: <<http://core.ac.uk/download/pdf/11744931.pdf>> [accessed 08/12/2015]