

CDIAC Philosophy

- *Focus on data and information in demand by a diverse user community*
- *Emphasize data quality*
- *Document databases thoroughly*
- *Provide proper credit to data contributors*
- *Respond to data and information requests **WITHOUT** restriction or charge*
- *Utilize advanced computing technologies to accommodate the diversity of user needs*

CDIAC ... a model ... of ... data and information centers to facilitate the exchange of data and access to data, help improve and maintain the quality of valuable data sets, and provide value-added services—National Research Council Committee for a Pilot Study on Data Interfaces



Contact CDIAC at:

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Carbon Dioxide Information Analysis Center



<http://cdiac.ornl.gov/>



**World Data Center
for Atmospheric Trace Gases**

Telephone: (865) 574-0390
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Prepared by the Carbon Dioxide Information Analysis Center, Environmental Sciences Division, Oak Ridge National Laboratory, managed by UT-Battelle, LLC, for the U.S. Department of Energy Office of Science Biological and Environmental Research Program under contract DE-AC05-00OR22725

Photo credits: CDIAC; Paul Hanson, ESD, ORNL; Rich Norby, ESD, ORNL

(August 2002)

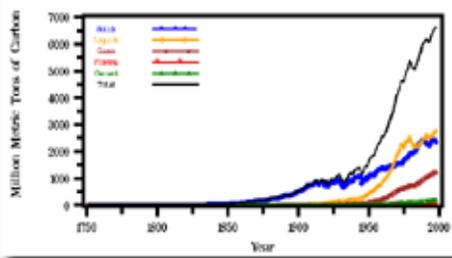
CDIAC Global Change Data and Information Products

CDIAC, established in 1982, includes the World Data Center for Atmospheric Trace Gases, and is DOE's *primary global-change data and information analysis center.*

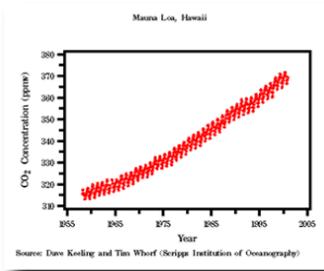
Global-change time series data



Carbon dioxide emissions



Carbon dioxide concentrations



Databases Most in Demand

Data Analysis

Quality Assurance

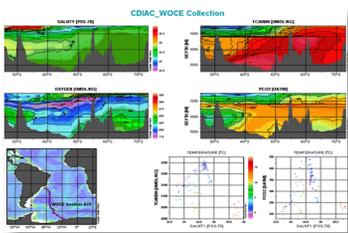
Value Added Environmental Data

Distributed Data Management

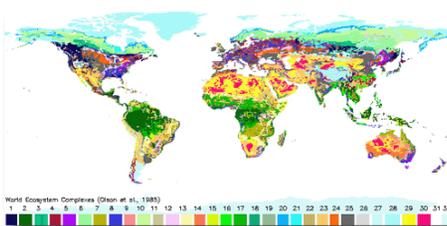
Detailed Documentation

Derived, Integrated Products

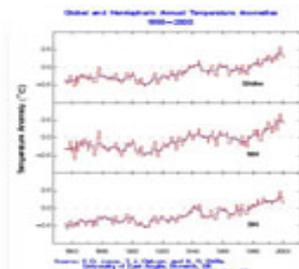
Ocean carbon measurements



Land-use and ecosystems data



Climate data



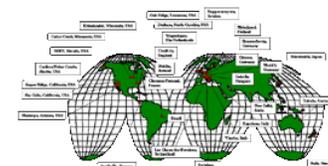
AmeriFlux



<http://public.ornl.gov/ameriflux/Participants/Sites/Map/index.cfm>

Since 1997, CDIAC has provided data management support for AmeriFlux – a network of flux sites in the Americas responsible for quantifying and understanding the role of the terrestrial biosphere in global climate change.

FACE



<http://cdiac.ornl.gov/programs/FACE/face.html>

CDIAC provides the Free-Air CO₂ Enrichment (FACE) global network of research sites with Web support and has recently began archiving and distributing data from FACE research sites.



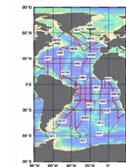
<http://cdiac.ornl.gov/programs/NARSTO/narsto.html>



Located within CDIAC, the NARSTO Quality Systems Science Center (QSSC) provides quality systems management and data management coordination for NARSTO, the North American studies of the formation, transport, and fate of ozone and particulates in the lower atmosphere.



<http://cdiac.ornl.gov/oceans/home.html>



CDIAC provides data management support for the Joint Global Ocean Flux Studies carbon dioxide measurements taken aboard research vessels during World Ocean Circulation Experiment cruises, and for other measurements of carbon in the oceans.