

References

For the electronic edition, all references have been left in the form given in the print edition, but where updated information is available, it has been added [in brackets].

- Alcamo, J.A., Kreileman, G.J.J., Krol, M.S. and Zuidema, G. (1994) Modelling the global society-biosphere-climate system. Part 1: model description and testing. *Water, Air and Soil Pollution*, **76**, 1–35.
- Allen, L.H., Boote, K.J., Jones, J.W., Jones, P.H., Valle, R.R., Acock, B., Rogers, H.H., and Dahlman, R.C. (1987) Response of vegetation to rising carbon dioxide: Photosynthesis, biomass, and seed yield of soybean. *Glob. Biogeochem. Cycles*, **1**, 1–14.
- Andres, R.J., Marland, G., Boden, T. and Bischoff, S. (1994). Carbon dioxide emissions from fossil fuel combustion and cement manufacture 1751–1991 and an estimate of their isotopic composition and latitudinal distribution. Presented at Global Change Institute, Snowmass Village (July, 1993). In *The Carbon Cycle*. Ed. T.M.L. Wigley and D.S. Schimel (CUP: Stanford, in press). [Actual publication year: 2000].
- Andrich, P., (1988) OPA—A multi-tasked Ocean General Circulation Model, *Tech Rep.*, LODYC, Université Paris VI, France, 60 pp.
- Bacastow, R.B. and Björkström, A. (1981) Comparison of ocean models of the carbon cycle. pp29–79 of *SCOPE 16: Carbon Cycle Modelling*. Ed. B. Bolin (John Wiley and Sons: Chichester).
- Bacastow, R. and Maier-Reimer, E. (1990) Ocean-circulation model of the carbon cycle. *Climate Dynamics*, **4**, 95–125.
- Badger, M. (1992) Manipulating agricultural plants for a future high CO₂ environment. *Aust. J. Botany*, **40**, 421–429.
- Blanke, B., and Delecluse, P. (1993) Variability of the tropical Atlantic Ocean simulated by a general circulation model with two different mixed layer physics. *J. Phys. Oceanogr.*, **23**, 1363–1388..
- Bolin, B. (1986) How much CO₂ will remain in the atmosphere? pp93–155 of *SCOPE 29. The Greenhouse Effect, Climatic Change and Ecosystems*. Eds. B. Bolin, B.R. Döös, J. Jäger and R.A. Warrick. (John Wiley and Sons: Chichester).
- Bolin, B., Keeling, C.D., Bacastow, R.B., Björkström, A. and Siegenthaler, U. (1981) Carbon Cycle Modelling. pp1–28 of *SCOPE 16: Carbon Cycle Modelling*. Ed. B. Bolin (John Wiley and Sons: Chichester).
- Bolin, B., Björkström, A., Holmén, K. and Moore, B. (1983) The simultaneous use of tracers for ocean circulation studies. *Tellus*, **35B**, 206–236.
- Brewer, P.G., Sarmiento, J.S. and Smethie, W.M. (1985) The Transient Tracers in the Ocean (TTO) program: The North Atlantic study, 1981: the Tropical Atlantic study, 1983 *J. Geophys. Res.*, **90C**, 6903–6905.
- Broecker, W.S. and Peng, T.-H. (1982) *Tracers in the Sea*. (Lamont-Doherty Geological Observatory: Palisades, New York).
- Broecker, W.S. and Peng, T.-H. (1994) Stratospheric contribution to the global bomb radiocarbon inventory: Model vs observation. *Global Biogeochemical Cycles*, **8**, 377–384.
- Broecker, W.S., Peng, T.-H. and Engh, R. (1980) Modeling the carbon system. *Radiocarbon*, **22**, 565–598.
- Broecker, W.S., Peng, T.-H., Ostlund, G. and Stuiver, M. (1985) The distribution of bomb radiocarbon in the ocean. *J. Geophys. Res.*, **90C**, 6953–6979.

- CDIAC (1991) *Trends '91: A Compendium of Global Change*. Ed. T.A. Boden, R.J. Sepanski and F.W. Stoss. (Carbon Dioxide Information and Analysis Center: Oak Ridge).
- Chartier, M., (1985) Un modèle numérique tridimensionnel aux équations primitives de la circulation générale de l'océan. CEA Report R-5372, France.
- Cohen, B.C. (1992) The 1860–1988 CO₂ emission and concentration data: econometric implications for sustainable fossil fuel use. *International Journal of Global Energy Issues*, **4**, 65–73.
- Cohen, B.C. and Collette, J.-M. (1991) Fossil fuel use and sustainable development. *International Journal of Global Energy Issues*, **3**, 132–141.
- Dai, A. and Fung, I.Y. (1993) Can climate variability contribute to the 'missing' CO₂ sink? *Global Biogeochemical Cycles*, **7**, 599–609.
- Diaz, H.F., Bradley, R.S. and Eischeid, J.K. (1989) Precipitation fluctuations over global land areas since the late 1800's. *J. Geophys. Res.*, **94D**, 1195–1210.
- Emanuel, W.R., Killough, G.G., Post, W.M. and Shugart, H.H. (1984) Modelling terrestrial ecosystems in the global carbon cycle with shifts in carbon storage capacity by land-use change. *Ecology*, **65**, 970–983.
- Emanuel, W.R., Fung, I.Y.-S., Killough, G.G., Moore, B. and Peng, T.-H. (1985) Modeling the global carbon cycle and changes in the atmospheric carbon dioxide levels. Chapter 7 (pp141–173) of *Atmospheric Carbon Dioxide and the Global Carbon Cycle*. Ed. J.R. Trabalka. Report DOE/ER-0239. (US Dept. Energy: Washington).
- Emanuel, W.R., King, A.W. and Post, W.M. (1993) A dynamic model of terrestrial carbon cycling. pp239–260 of *The Global Carbon Cycle*. Ed. M. Heimann (Springer-Verlag).
- Enting, I.G. (1987) A modelling spectrum for carbon cycle studies. *Mathematics and Computers in Simulations*, **29**, 75–85.
- Enting, I.G. (1989a). Some comments on Kalman filtering of CO₂ data. pp101–111 of *The Statistical Treatment of CO₂ Data Records*. Ed. W.P. Elliott. NOAA Technical Memorandum ERL ARL-173.
- Enting, I.G. (1989b) Kalman filtering in the analysis of CO₂ data. pp293–298 of *Extended Abstracts of Papers Presented at Third International Conference on Analysis and Evaluation of Atmospheric CO₂ Data Present and Past. (Hinterzarten, October 1989)*. Environmental Pollution Monitoring and Research Programme. Publication No. 59. (WMO and University of Heidelberg).
- Enting, I.G. (1990) Ambiguities in the calibration of carbon cycle models. *Inverse Problems*, **6**, L39–L46.
- Enting, I.G. (1991) *Calculating Future CO₂ Concentrations*. Division of Atmospheric Research, Technical Paper 22 (CSIRO: Australia). [Also electronic edition (2000), at http://www.dar.csiro.au/publications/Enting_2000d.pdf]
- Enting, I.G. (1992) The incompatibility of ice-core CO₂ data with reconstructions of biotic CO₂ sources (II). *Tellus*, **44B**, 23–32.
- Enting, I.G. (1994). CO₂-climate feedbacks: aspects of detection. In *Biotic Feedbacks in the Global Climate System: Will the Warming Speed the Warming?* Ed. G.M. Woodwell.(in press), (Oxford University Press).
[Actual publication year: 2000; Editors G.M. Woodwell and F.T Mackenzie].
- Enting, I.G. and Lassey, K.R. (1993) *Projections of Future CO₂*. Division of Atmospheric Research, Technical Paper 27; NIWA Publication NIWA/Atmos/R/93–001. (CSIRO: Australia). [Also electronic edition (2000),

- at http://www.dar.csiro.au/publications/Enting_2000e.pdf]
- Enting, I.G. and Mansbridge, J.V. (1987) Inversion relations for the deconvolution of CO₂ data from ice cores. *Inverse Problems*, **3**, L63–L69.
- Enting, I.G. and Pearman, G.I. (1983) *Refinements to a one-dimensional carbon cycle model*. Division of Atmospheric Research, Technical Paper 3 (CSIRO: Australia).
- Enting, I.G. and Pearman, G.I. (1986) The use of observations in calibrating and validating carbon cycle models. pp425–458 of *The Changing Carbon Cycle: A Global Analysis*. Ed. J.Trabalka and D.E. Reichle. (Springer-Verlag: New York).
- Enting, I.G. and Pearman, G.I. (1987) Description of a one-dimensional carbon cycle model calibrated using techniques of constrained inversion. *Tellus*, **39B**, 459–476.
- Esser, G. (1987) Sensitivity of global carbon pools and fluxes to human and potential climatic impacts *Tellus*, **39B**, 245–260.
- Farquhar, G.D., von Caemmerer, S. and Berry, J.A. (1980) A biochemical model of photosynthetic CO₂ assimilation in leaves of C3 species. *Planta*, **149**, 78–90.
- Farquhar, G.D., Lloyd, J., Taylor, J.A., Flanagan, L.B., Syvertsen, J.P., Hubick, K.T., Chin Wong, S., and Ehleringer, J.R. (1993) Vegetation effects in the isotopic composition of oxygen in atmospheric CO₂. *Nature*, **363**, 439–443.
- Filar, J.A. (1993) *Uncertainty analysis of a greenhouse effect model*. School of Mathematics Technical Report Series 1993/3. (University of South Australia: Adelaide).
- Friedli, H., Löttscher, H., Oeschger, H., Siegenthaler, U. and Stauffer, B. (1986) Ice core record of ¹³C/¹²C ratio of atmospheric CO₂ in the past two centuries. *Nature*, **324**, 237–238.
- Friedlingstein, P., Delire, C., Müller, J.-F. and Gérard, J.-C. (1992) The climate induced variation of the continental biosphere: a model simulation of the last glacial maximum. *Geophys. Res. Lett.*, **19**, 897–900.
- Friedlingstein, P., Müller, J.-F. and Brasseur, G.P. (1994) Sensitivity of the terrestrial biosphere to climatic changes: Impact on the carbon cycle. *Environment Pollut.*, **83**, 143–147.
- Fujio, S., and Imasato, N.N. (1991) Diagnostic calculation for circulation and water mass movement in the deep Pacific. *J. Geophys. Res.*, **96**, 759–774.
- Gardner, R.H. and Trabalka, J. (1985) *Methods of Uncertainty Analysis for a Global Carbon Dioxide Model*. Report TR024 (DOE/OR/21400-4) (US Dept. Energy: Washington).
- Gherini, S.A., Mok, L. Hudson, R.J.M., Davis, G.F., Chen C.W. and Goldstein R.A. (1985) The ILWAS model: Formulation and application. *Water, Air and Soil Pollution*, **26**, 425–459.
- Goldstein, R.A., Hudson, R.J.M. and Gherini, S. (1992) GLOCO, a global carbon cycle management model. 92-133.03 in *Proceedings of the 85th Annual Meeting of the Air and Waste Management Association (Kansas City, Missouri)*.
- de Haan B.J., Jonas, M., Klepper, O., Krabec, J., Krol, M.S. and Olendrzynski, K. (1994) An atmosphere-ocean model for the integrated assessment of global change. *Water, Air and Soil Pollution*, **76**, 283–318.
- Harvey, L. D. D. (1989a) Managing atmospheric CO₂. *Climatic Change*, **15**, 343–381.
- Harvey, L.D.D. (1989b) Effect of model structure on the response of terrestrial biosphere models to CO₂ and temperature increases. *Global Biogeochemical Cycles*, **3**, 137–153.
- Heimann, M. and Maier-Reimer, E. (1994) On the relations between oceanic uptake of CO₂ and its carbon isotopes. *Global Biogeochemical cycles*. (submitted). [Published *Global Biogeochemical cycles*, **10**, 89–110 (1996)].
- Heinze, C., Maier-Reimer, E. and Winn, K. (1991) Glacial pCO₂ reduction by the world ocean: experiments with the Hamburg carbon cycle model. *Paleo-oceanography*, **6**, 395–430.

- Hesshaimer, V., Heimann, M. and Levin, I. (1994) Radiocarbon evidence for a smaller oceanic carbon dioxide sink than previously believed. *Nature*, **370**, 201–302.
- Hoffert, M.I., Callegari, A.J., and Hsieh, C.T. (1981) A box diffusion carbon cycle model with upwelling, polar bottom water formation and a marine biosphere. pp287–305 of *SCOPE 16: Carbon Cycle Modelling*. Ed. B. Bolin (John Wiley and Sons: Chichester).
- Houghton, R.A., Hobbie, J.E., Melillo, J.M., Moore, B., Peterson, B.J., Shaver, G.R. and Woodwell, G.M. (1983) Changes in the carbon content of terrestrial biota and soils between 1860 and 1980: A net release of CO₂ to the atmosphere. *Ecological Monographs*, **53**, 235–262.
- Houghton, R.A. (1991) Tropical deforestation and atmospheric carbon dioxide. *Climatic Change*, **19**, 99–118.
- Hudson, R.J.M., Gherini, S.A., and Goldstein, R.A. (1994) Modeling the global carbon cycle: Nitrogen fertilization of the terrestrial biosphere and the “missing” CO₂ sink. *Global Biogeochemical Cycles*, **8**, 307–333.
- IPCC (1990) *Climate Change: The IPCC Scientific Assessment*. Eds. J.T. Houghton, G.J. Jenkins and J.J. Ephraums for the Intergovernmental Panel on Climate Change. (CUP: New York).
- IPCC (1992) *Climate Change 1992: The Supplementary Report to the IPCC Scientific Assessment*. Eds. J.T. Houghton, B.A. Callander and S.K. Varney for the Intergovernmental Panel on Climate Change. (CUP: New York).
- IPCC (1994) *Special Report on Radiative Forcing of Climate Change*. In preparation.
[Published 1995 as *Climate Change 1994: Radiative Forcing of Climate Change and An Evaluation of the IPCC 1S92 Emissions Scenarios* Ed. J.T.Houghton et al. (CUP: Cambridge).].
- IPCC (1995) Refers to Full Scientific Assessment produced by Working Group 1 of the Intergovernmental Panel on Climate Change. In preparation.
[Published 1996 as *Climate Change 1995: The Science of Climate Change*. Ed. J.T. Houghton et al. (CUP: Cambridge).]
- Jain, A.K., Kheshgi, H.S. and Wuebbles, D.J. (1994a) Integrated Science Model for Assessment of Climate Change. L.L.N.L. report UCRL-JC 116526. (Also submitted to Air and Waste Management Association’s 87th Annual Meeting, Cincinnati, Ohio, June 19–24, 1994.)
- Jain, A.K., Kheshgi, H.S., Hoffert, M.I., and Wuebbles, D.J. (1994b) Distribution of radiocarbon as a test of global carbon cycle models. *Global Biogeochem. Cycles*, , in press. (Also L.L.N.L. Report UCRL-JC 116537).
[Published *Global Biogeochem. Cycles*, **9**, 153–166 (1995)]
- Jones, P.D., Raper, S.C.B., Bradley, R.S., Diaz, H.F., Kelly, P.M. and Wigley, T.M.L. (1986) Northern hemisphere surface air temperature variation 1851–1984. *J. Clim. Appl. Met.*, **25**, 161–179.
- Joos, F. (1992) *Modellierung und Verteilung von Spurenstoffen im Ozean und das globalen Kohlenstoffkreislaufes*. PhD Thesis, University of Bern
- Joos, F. (1994) Bomb radiocarbon: Imbalance in the budget. *Nature*, **370**, 181–182.
- Joos, F., Siegenthaler, U. and Sarmiento, J.L. (1991) Possible effects of iron fertilization in the Southern Ocean on atmospheric CO₂ concentration. *Global Biogeochemical Cycles*, **5**, 135–150.
- Kaduk, J. and Heimann, M. (1994) The climate sensitivity of the Osnabrück biosphere model on the ENSO time scale. In: *Proceedings of the ISEM 8th International Conference on the State of the Art in Ecological Modelling and Ecological Engineering*.

- Kandlikar, M., Diwekar, U. and Patwardhan, A. (1992) Carbon cycle inversion as a differential algebraic optimization problem. (abstract). *EOS Trans AGU*, **73** Fall Meeting Suppl. p94.
- Karplus, W.J. (1977) The spectrum of mathematical modeling and systems simulation *Mathematics and Computers in Simulation*, **19**, 3–10.
- Keeling, C.D. (1973) Industrial production of carbon dioxide from fossil fuels and limestone. *Tellus*, **25**, 174–198.
- Keeling, C.D. (1991) CO₂ emissions —Historical Record. pp 383–385 of *Trends '91: A Compendium of Global Change*. Eds. T.A. Boden, R.J. Sepanski and F.W. Stoss. (Carbon Dioxide Information and Analysis Center: Oak Ridge).
- Keeling, C.D., Bacastow, R.B., Carter, A.F., Piper, S.C., Whorf, T.P. Heimann, M., Mook, W.G. and Roeloffzen, H. (1989) A three-dimensional model of atmospheric CO₂ transport based on observed winds. 1. Analysis of observational data. pp165–236 of *Aspects of Climate Variability in the Pacific and Western Americas*. Ed. D.H. Peterson. (AGU: Washington).
- Keller, A.A. and Goldstein, R.G. (1994) The human effect on the global carbon cycle: Response functions to analyze management strategies. *World Resources Research*, **6**, 63–68.
- Kheshgi, H.S., Jain, A.K. and Wuebbles, D.J. (1994) Accounting for the missing sink with the CO₂ fertilization effect. In preparation for *Climatic Change*.
[Published *Climatic Change*, **33**, 31–62 (1996)]
- Killough, G.G. and Emanuel, W.R. (1981) A comparison of several models of carbon turnover in the ocean with respect to their distributions of transit time and age responses to atmospheric CO₂ and ¹⁴C. *Tellus*, **33**, 274–290.
- Klein Goldwijk, K., van Minnen, J.G., Kreileman, G.J.J., Vloedbelt, M. and Leemans, R. (1994) Simulating the carbon flux between the terrestrial environment and the atmosphere. *Water, Air and Soil Pollution*, **76**, 199–230.
- Laurmann, J.A. and Spreiter, J.R. (1983) The effects of carbon cycle model error in calculating future atmospheric carbon dioxide levels. *Climatic Change*, **5**, 145–181.
- Leggett, J., Pepper, W.J. and Swart, R.J. (1992) Emission scenarios for the IPCC: an update. pp69–95 of *Climate Change 1992: The Supplementary Report to the IPCC Scientific Assessment*. Ed. J.T. Houghton, B.A. Callander and S.K. Varney for the Intergovernmental Panel on Climate Change. (CUP: New York).
- Levitus, S., (1982) Climatological Atlas of the World Ocean, *NOAA Prof. Pap. 13*, U.S. GPO., Washington, D.C.
- Lieth, H. (1975) Modeling the primary productivity of the world. pp237–267 of *Primary Productivity of the Biosphere*. Ed. H. Lieth and R.H. Whittaker. (Springer-Verlag: New York).
- Liu (1991) *Tree Physiology*, **9**, 173–184.
- Lloyd, J. and Farquhar, G.D. (1995) The CO₂ dependence of photosynthesis, plant growth response to elevated atmospheric CO₂ concentration and their interaction with plant nutrient status. I: General principles and forest ecosystems. *Functional Ecology* (submitted).
[Published *Functional Ecology*, **10**, 4–32 (1996).]
- Madec, G., and Crépon, M. (1991) Thermohaline-driven deep water formation in the Northwestern Mediterranean Sea, in *Deep Convection and Deep Water Formation in the Oceans*. Eds. P. C. Chu and J. C. Gascard. (Elsevier) pp. 241–265.
- Madec, G., Chartier, M. and Crépon, M. (1991a) The effect of thermohaline forcing variability on deep water formation in the western Mediterranean Sea: a high resolution three-dimensional study. *Dyn. Atmos. Oceans*, **15**, 301–332.
- Madec, G., Chartier, M., Delecluse, P., and Crépon, M. (1991b) A three-dimensional numerical

- study of deep water formation in the Northwestern Mediterranean Sea. *J. Phys. Oceanog.*, **21**, 1349–1371.
- Maier-Reimer, E. (1993) The biological pump in the greenhouse. *Global and Planetary Change*, **8**, 13–15.
- Maier-Reimer, E., and Hasselmann, K. (1987) Transport and storage of CO₂ in the ocean—an inorganic ocean-circulation carbon cycle model. *Climate Dynamics*, **2**, 63–90.
- Mannermaa, J. and Karras, M. (1989) Use of the maximum entropy method to predict atmospheric CO₂ content. *Geophysica*, **25**, 37–46.
- Marland, G. and Boden, T. (1991) CO₂ emissions—Modern Record. pp386–389 of *Trends '91: A Compendium of Global Change*. Eds. T.A. Boden, R.J. Sepanski and F.W. Stoss. (Carbon Dioxide Information and Analysis Center: Oak Ridge).
- Marti, O., 1992. Etude de l’océan mondial: Modélisation de la circulation et du transport des traceurs anthropiques, Thèse, Docteur de l’Université Paris VI, LODYC, France, 201 pp.
- Masle, J., Farquhar, G.D. and Gifford, R. (1990) Growth and carbon economy of wheat seedlings as affected by soil resistance to penetration and ambient partial pressure of CO₂. *Aust. J. Plant Physiol.*, **17**, 465–487.
- Moore III, B., and Braswell, Jr., B.H. (1994) The lifetime of excess atmospheric carbon dioxide. *Global Biogeochemical cycles*, **8**, 23–38.
- Neftel, A., Moor, E. Oeschger, H. and Stauffer, B. (1985) Evidence from polar ice cores for the increase in atmospheric CO₂ in the past two centuries. *Nature*, **315**, 45–47.
- Oeschger, H., Siegenthaler, U., Schotterer and Gugelmann, A. (1975) A box diffusion model to study the carbon dioxide exchange in nature. *Tellus*, **27**, 168–192.
- Oeschger, H. and Heimann, M. (1983) Uncertainties of predictions of future atmospheric CO₂ concentrations. *J. Geophys. Res.*, **88C**, 1258–1262.
- Olson, J.S., Watts, J.A. and Allison, L.J. (1985) *Major world ecosystems ranked by carbon in live vegetation. A database*. ORNL-5862. Oak Ridge National Laboratory. Oak Ridge, Tennessee. 164pp.
- Orr, J. C. (1993) Accord between ocean models predicting uptake of anthropogenic CO₂. *Water, Air, & Soil Pollution*, , in press.
- Parkinson, S., Young, P., and Binley, A. (1993) Uncertainty and sensitivity in global carbon cycle modelling. *in preparation*.
[Apparently published as S. Parkinson and P. Young (1998) *Climatic Research*, **9**, 157–174.]
- Parton (1987) *Soil Sci. Soc. Am. J.*, **51**, 1173.
- Peng, T. H., Takahashi, T., Broecker, W.S., and Olafasson, J. (1987) Seasonal variability of carbon dioxide, nutrients and oxygen in the northern North Atlantic surface water. *Tellus*, **39B**, 439–458.
- Rassiter (1991) *Tree Physiology*, **9**, 101–126.
- Rotmans, J. and den Elzen, M.G.J. (1993) Modelling feedback mechanisms in the carbon cycle: balancing the carbon budget *Tellus*, **45B**, 310–320.
- Rotty, R.M. (1987) A loof at 1983 CO₂ emissions from fossil fules (with preliminary data from 1984. *Tellus*, **39B**, 203–208.
- Sarmiento, L.J. and Pacala, S.W. (1994) Terrestrial uptake of anthropogenic carbon. *Nature*, , submitted.
- Sarmiento, J.L. and Sundquist, E.T. (1992) Revised budget for the oceanic uptake of anthropogenic carbon dioxide. *Nature*, **356**, 589–593.
- Sarmiento, J.L, Orr, J.C., and Siegenthaler, U. (1992) A perturbation simulation of CO₂ uptake

- in an ocean general circulation model. *J. Geophys. Res.*, **92**, 3621–3645.
- Sarmiento, J.L., Le Quéré, C. and Pacala, S.W. (1994) Limiting future atmospheric carbon dioxide. *Global Biogeochemical Cycles*, , in press.
[Published *Global Biogeochem. Cycles*, **9**, 121–137 (1995)]
- Semprter, A.J. and Chervin, R.M. (1988) A simulation of the global ocean circulation with resolved eddies. *J. Geophys. Res.*, **93C**, 15502–15522.
- Siegenthaler, U. (1983) Uptake of excess CO₂ by an outcrop-diffusion model of the ocean. *J. Geophys. Res.*, **88C**, 3599–3608.
- Siegenthaler, U. and Joos, F. (1992) Use of a simple model for studying oceanic tracer distributions and the global carbon cycle. *Tellus*, **44B**, 186–207.
- Siegenthaler, U. and Oeschger, H. (1987) Biospheric CO₂ emissions during the past 200 years reconstructed by deconvolution of ice core data. *Tellus*, **39B**, 140–154.
- Sundquist, E.T. (1985) Geological perspectives on carbon dioxide and the carbon cycle. In *The Carbon Cycle and Atmospheric CO₂: Natural Variations, Archean to Present*. Ed. E.T. Sundquist and W.S. Broecker. Geophysical Monograph No. 32. (AGU: Washington).
- Takahashi, T., Broecker, W.S., Bainbridge, A.E. and Weiss, R.F. (1980) *Carbonate Chemistry of the Atlantic, Pacific and Indian Oceans. The Results of the GEOSECS Expeditions 1972–1978*. Chapter II, pp3–9. Determination of alkalinity and total CO₂ concentration.
- Takahashi, T., Broecker, W.S. and Bainbridge, A.E. (1981) The alkalinity and total carbon dioxide concentration in the world oceans. pp159–199 of *SCOPE 16: Carbon Cycle Modelling*. Ed. B. Bolin (John Wiley and Sons: Chichester).
- Taylor, J.A. and Lloyd, J. (1992) Sources and sinks of atmospheric CO₂. *Aust. J. Botany*, **40**, 407–418.
- Toggweiler, J.R., Dixon, K. and Bryan, K. (1989a) Simulations of radiocarbon in a coarse-resolution world ocean model. 1. Steady state pre-bomb distributions. *J. Geophys. Res.*, **94**, 8217–8242.
- Toggweiler, J.R., Dixon, K., and Bryan, K. (1989b) Simulation of radiocarbon in a coarse-resolution, world ocean model, II, Distributions of bomb-produced ¹⁴C. *J. Geophys. Res.*, **94**, 8243–8264.
- WEC (1993) *Energy for Tomorrow's World — The Real Options and the Agenda for Achievement*. World Energy Council. (Kogan Page Ltd: London). 320pp.
- Wigley, T.M.L. (1991) A simple inverse carbon cycle model. *Global Biogeochemical Cycles*, **5**, 373–382.
- Wigley, T.M.L. (1993) Balancing the carbon budget: Implications for projections of future carbon dioxide changes. *Tellus*, **45B**, 409–425.
- Wigley, T.M.L. and Enting, I.G. (1993) *Carbon Cycle Model Calculations for the IPCC*. (Reproduced in this report as Appendix A).
- Wigley, T.M.L. and Raper, S.C.B. (1992) Implications for climate and sea level of revised IPCC emission scenarios. *Nature*, **357**, 293–300.
- Wigley, T.M.L., Holt, T. and Raper, S.C.B. (1991) *STUGE (An interactive greenhouse model): User's Manual*. (Climatic Research Unit: Norwich, UK).
- Wuebbles, D.J. and Jain, A.K. (1993) Carbon Cycle Modeling Calculations for the IPCC. (L.L.N.L. report UCRL-JC-115337).

[Click here to go back to contents](#)