

Thomas F. Stocker: List of Publications 1986 – 2024

International Scientific Impact Measured by ISI

ISI Web of Science (accessed 4.1.2024, search for "stocker tf or stocker t" and "zurich or london or montreal or palisades or bern or berne" and "1986-2023", excluding all medical related articles, Meeting Abstract, Biographical Item): 268 publications, 30,936 citations, h=80; 68 papers >=100 citations of which 8 first authored.

1. Books

1. Stocker T., K. Hutter, 1987, *Topographic Waves in Channels and Lakes on the f-Plane*. Lecture Notes on Coastal and Estuarine Studies 21, Springer, 173pp.
2. Leuenberger, M., S. Borella, T. Stocker, M. Saurer, R. Siegwolf, F. Schweingruber, R. Matyssek, 1998, *Stable isotopes in tree rings as climate and stress indicators*. Final Report NRP 31, vdf Hochschulverlag, Zürich, 200pp.
3. Alley, R.A., Marotzke M., Nordhaus W., Overpeck J., Peteet D., Pielke R., Pierrehumbert R. Rhines P., Stocker T., Talley L., Wallace J.M., 2002, *Abrupt Climate Change: Inevitable Surprises*. US. National Research Council Report, National Academy Press, Washington DC. 230 pp.
4. Stocker, T., 2011, *Introduction to Climate Modelling*, Advances in Geophysical and Environmental Mechanics and Mathematics, K. Hutter (ed.), Springer Verlag, 179 pp.
5. Stocker, T., 2024, *Introduction to Climate Modelling*, Lecture Notes University of Bern, 204 pp., freely available at www.climate.unibe.ch/stocker

2. Articles in Refereed Journals

1. Stocker T., K. Hutter, 1986, One-dimensional models for topographic Rossby waves in elongated basins on the f-plane. *J. Fluid Mech.* 170, 435-459.
2. Stocker T., K. Hutter, 1987, Topographic waves in rectangular basins. *J. Fluid Mech.* 185, 107-120.
3. Stocker T., 1988, A numerical study of topographic wave reflection in semi-infinite channels. *J. Phys. Oceanogr.* 18, 609-618.
4. Stocker T.F., E.R. Johnson, 1989, Topographic waves in open domains. Part 2: Bay modes and resonances. *J. Fluid Mech.* 200, 77-93.
5. Wright D.G., T.F. Stocker, L.A. Mysak, 1990, A note on Quaternary climate models using Boolean delay equations. *Climate Dynamics* 4, 263-267.
6. Stocker T.F., E.R. Johnson, 1991, The trapping and scattering of topographic waves by estuaries and headlands. *J. Fluid Mech.* 222, 501-524.
7. Stocker T.F., D.G. Wright, 1991, Rapid transitions of the ocean's deep circulation induced by changes in the surface water fluxes. *Nature* 351, 729-732.
8. Wright D.G., T.F. Stocker, 1991, A zonally averaged ocean model for the thermohaline circulation. Part I: Model development and flow dynamics. *J. Phys. Oceanogr.* 21, 1713-1724.
9. Stocker T.F., D.G. Wright, 1991, A zonally averaged ocean model for the thermohaline circulation. Part II: Interocean circulation in the Pacific-Atlantic basin system. *J. Phys. Oceanogr.* 21, 1725-1739.
10. Stocker T.F., L.A. Mysak, 1992, Climatic fluctuations on the century timescale: a review of high-resolution proxy-data. *Climatic Change* 20, 227-250.
11. Stocker T.F., D.G. Wright, L.A. Mysak, 1992, A zonally averaged, coupled ocean-atmosphere model for paleoclimate studies. *J. Climate* 5, 773-797.
12. Stocker T.F., W.S. Broecker, 1992, North Atlantic Deep Water Formation, *EOS Transactions, American Geophysical Union* 73, 202-203.
13. Mysak L.A., T.F. Stocker, F. Huang, 1992, Century-scale variability in a randomly forced, two-dimensional thermohaline ocean circulation model. *Climate Dynamics* 8, 103-116.
14. Wright D.G., T.F. Stocker, 1992, Sensitivities of a zonally averaged global ocean circulation model. *J. Geophys. Res.* 97, 12707-12730.
15. Stocker T.F., D.G. Wright, W.S. Broecker, 1992, Influence of high-latitude surface forcing on the global thermohaline circulation. *Paleoceanogr.* 7, 529-541. (corrected page) *Paleoceanogr.* 7, 863-864.
16. Stocker T.F., W.S. Broecker, D.G. Wright, 1994, Carbon uptake experiments with a zonally averaged global ocean circulation model. *Tellus* 46B, 103-122.

17. Stocker T.F., W.S. Broecker, 1994, Observation and modeling of North Atlantic deep water formation and its variability: Introduction. *J. Geophys. Res.* 99, 12317.
18. Zaucker F., T.F. Stocker, W.S. Broecker, 1994, Observed and modeled freshwater fluxes and their effect on the global thermohaline circulation. *J. Geophys. Res.* 99, 12443-12458.
19. Lynch-Stieglitz J., T.F. Stocker, W.S. Broecker, R.G. Fairbanks, 1995, The influence of air-sea exchange on the isotopic composition of organic carbon: observations and modeling. *Global Biogeochemical Cycles* 9, 653-665.
20. Joos F., M. Bruno, R. Fink, U. Siegenthaler, T.F. Stocker, C. Le Quéré, J. Sarmiento, 1996, An efficient and accurate representation of complex oceanic and biospheric models of anthropogenic carbon uptake. *Tellus* 48B, 397-417.
21. Gruber N., J.L. Sarmiento, T.F. Stocker, 1996, An improved method for detecting anthropogenic CO₂ in the oceans. *Global Biogeochemical Cycles* 10, 809-837.
22. Stocker T.F., 1996, An overview of climatic variability on the decadal-to-century time scale: models and mechanisms. In: *Decadal Climate Variability: Dynamics and Predictability*, D.L.T. Anderson and J. Willebrand (eds.), NATO ASI I44, 379-406.
23. Stocker T.F., D.G. Wright, 1996, Rapid changes in ocean circulation and atmospheric radiocarbon. *Paleoceanogr.* 11, 773-796.
24. Stocker T.F., A. Schmittner, 1997, Influence of CO₂ emission rates on the stability of the thermohaline circulation, *Nature* 388, 862-865.
25. Blunier T., J. Schwander, B. Stauffer, T. Stocker, A. Dällenbach, A. Indermühle, J. Tschumi, J. Chappellaz, D. Raynaud, J.-M. Barnola, 1997, Timing of temperature variations during the last deglaciation in Antarctica and the atmospheric CO₂ increase with respect to the Younger Dryas event. *Geophys. Res. Lett.* 24, 2683-2686.
26. Stauffer B., T. Blunier, A. Dällenbach, A. Indermühle, J. Schwander, T.F. Stocker, J. Tschumi, J. Chappellaz, D. Raynaud, C.U. Hammer, H.B. Clausen, 1998, Atmospheric CO₂ and millennial-scale climate change during the last glacial period. *Nature* 392, 59-62.
27. Wright D.G., T.F. Stocker, D. Mercer, 1998, Closures used in zonally averaged ocean models. *J. Phys. Oceanogr.* 28, 791-804.
28. Appenzeller C., J. Schwander, S. Sommer, T.F. Stocker, 1998. The North Atlantic Oscillation and its imprint on precipitation and ice accumulation in Greenland. *Geophys. Res. Lett.* 25, 1939-1942.
29. Marchal O., T.F. Stocker, F. Joos, 1998, Impact of global reorganizations on the ocean carbon cycle and atmospheric carbon dioxide content, *Paleoceanogr.* 13, 225-244.
30. Gruber N., C.D. Keeling, T.F. Stocker, 1998, Carbon-13 constraints on the seasonal inorganic carbon budget at the BATS site in the northwestern Sargasso Sea, *Deep Sea Res. I*, 45, 673-717.
31. Hormes A., C. Schlüchter, T. Stocker, 1998. Minimal extension phases of Unteraargletscher (Swiss Alps) during the Holocene based on ¹⁴C analysis of wood. *Radiocarbon* 40, 809-818.
32. Stocker T.F., Wright, D.G., 1998, The effect of a succession of ocean ventilation changes on radiocarbon. *Radiocarbon* 40, 359-366.
33. Marchal O., T.F. Stocker, F. Joos, 1998, A latitude-depth circulation-biogeochemical ocean model for paleoclimate studies. Development and sensitivities. *Tellus* 50B, 290-316.
34. Blunier T., J. Chappellaz, J. Schwander, A. Dällenbach, B. Stauffer, T.F. Stocker, D. Raynaud, J. Jouzel, H.B. Clausen, C.U. Hammer, S. J. Johnsen, 1998. Asynchrony of Antarctic and Greenland climate change during the last glacial period. *Nature* 394, 739-743.
35. Appenzeller C., T.F. Stocker, M. Anklin, 1998, North Atlantic Oscillation dynamics recorded in Greenland ice cores. *Science* 282, 446-449.
36. Indermühle A., T.F. Stocker, F. Joos, H. Fischer, H.J. Smith, M. Wahlen, B. Deck, D. Mastroianni, J. Tschumi, T. Blunier, R. Meyer, B. Stauffer, 1999, Holocene carbon-cycle dynamics based on CO₂ trapped in ice at Taylor Dome, Antarctica, *Nature* 398, 121-126.
37. Joos F., G.-K. Plattner, T.F. Stocker, O. Marchal, A. Schmittner, 1999, Global warming and marine carbon cycle feedbacks on future atmospheric CO₂. *Science* 284, 464-467.
38. Schmittner A., T.F. Stocker, 1999, The stability of the thermohaline circulation in global warming experiments. *J. Climate* 12, 1117-1133.
39. Hirschi J., J. Sander, T.F. Stocker, 1999, Intermittent convection, mixed boundary conditions and the stability of the thermohaline circulation. *Climate Dyn.* 15, 277-291.
40. Marchal O., T.F. Stocker, F. Joos, J. Tschumi, A. Indermühle, B. Stauffer, 1999, Modelling the concentration of atmospheric CO₂ during the Younger Dryas climate event. *Climate Dyn.* 15, 341-354.
41. Stocker T.F., 1999, Abrupt climate changes: from the past to the future – a review. *Int. J. Earth Sci.* 88, 365-374.

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45. Marchal O., T.F. Stocker, F. Joos, 1999, Physical and biogeochemical responses to freshwater-induced thermohaline variability in a zonally averaged ocean model. In: *Mechanisms of Global Climate Change at Millennial Time Scales*, Geophysical Monograph 112, P. U. Clark et al. (eds), 263-284.
46. Indermühle A., B. Stauffer, T.F. Stocker, D. Raynaud, J.-M. Barnola, 1999, Technical Comment to Wagner et al. 1999, Science 284, 1971-1973. *Science* 286, 1815a.
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48. Broecker, W., J. Lynch-Stieglitz, D. Archer, M. Hofmann, E. Maier-Reimer, O. Marchal, T. Stocker, N. Gruber, 1999, How strong is the Harvardton-Bear constraint? *Global Biogeochem. Cyc.* 13, 817-820.
49. Schmittner A., C. Appenzeller, T.F. Stocker, 2000, Validation of parameterizations of the meridional energy and moisture transport used in simple climate models. *Climate Dyn.* 16, 63-77.
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62. Appenzeller, C., T.F. Stocker, A. Schmittner, 2001, Natural climate variability and climate change in the North Atlantic European region: chance for surprise? *Integrated Assessment* 1, 301-306.
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64. Stocker T.F., 2001, Non-linearities in the Earth system: the ocean's role. In: *Geosphere-Biosphere Interactions and Climate*, L. O. Bengtsson, C. U. Hammer (eds.), Cambridge, 147-162.
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5. Invited Articles in Nature and Science

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