Thomas F. Stocker: List of Publications 1986 – 2025

International Scientific Impact Measured by ISI

Clarivate Web of Science (accessed 7.1.2025, search for "stocker tf or stocker t" and "zurich or london or montreal or palisades or bern or berne" and "1986-2025", excluding all medical related articles, Meeting Abstract, Biographical Item): 278 publications, 32,841 citations, h=82; 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 CO_2 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 CO_2 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 CO_2 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 CO_2 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.
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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.
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35. Appenzeller C., T.F. Stocker, M. Anklin, 1998, North Atlantic Oscillation dynamics recorded in Greenland ice cores. *Science 282*, 446-449.
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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.
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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.
47. Blunier, T., T.F. Stocker, J. Chappellaz, D. Raynaud, 1999, Phase lag of Antarctic and Greeland temperature in the last glacial and link between CO_2 variations and Heinrich events. In: *Reconstructing Ocean History: A Window into the Future*, F. Abrantes, A. Mix (eds.), 121-138.
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.
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57. Marchal O., R. François, T.F. Stocker, F. Joos, 2000, Ocean thermohaline circulation and sedimentary $^{231}Pa/^{230}Th$ ratio. *Paleoceanogr. 15*, 625-641.
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