

References

- [1] P. Bak, T. Bohr, and M. H. Jensen. Mode-locking and the transition to chaos in dissipative systems. *Physica Scripta*, T9:50–58, 1985.
- [2] D. S. Battisti. The dynamics and thermodynamics of a warming event in a coupled tropical atmosphere/ocean model. *J. Atmos. Sci.*, 45:2889–2919, 1988.
- [3] R. Benzi, G. Parisi, A. Sutera, and A. Vulpiani. Stochastic resonance in climatic change. *Tellus*, 34:10–16, 1982.
- [4] W. S. Broecker. *The glacial world according to Wally*. Eldigio Press, 1995.
- [5] F. Bryan. Parameter sensitivity of primitive equation ocean general circulation models. *J. Phys. Oceanogr.*, 17:970–985, 1987.
- [6] N. Calder. Arithmetic of ice ages. *Nature*, 252:216–218, 1974.
- [7] R. J. Charlson, J. E. Lovelock, M. O. Andreae, and S. G. Warren. Oceanic phytoplankton, atmospheric sulphur, cloud albedo and climate. *Nature*, 326:655–661, 1987.
- [8] K.M. Cuffy and G.D. Clow. Temperature, accumulation, and ice sheet elevation in central greenland through the last deglacial transition. *J. Geophys. Res.*, 102:26,383–26,396, 1997.
- [9] H. A. Dijkstra. *Nonlinear physical oceanography*. Kluwer Academic Publishers, 2000.
- [10] B. F. Farrell and P. J. Ioannou. Generalized stability theory part i: autonomous operators. *JAS*, 53:2025–2040, 1996.
- [11] Brian Farrell. Optimal excitation of neutral Rossby waves. *J. Atm. Sci.*, 45:163–172, 1988.
- [12] E. Galanti and E. Tziperman. On ENSO's phase locking to the seasonal cycle in the fast SST, fast wave, and mixed mode regimes. *Journal of the Atmospheric Sciences*, in press, 2000.
- [13] A.E. Gargett. Vertical eddy diffusivity in the ocean interior. *J. Mar. Res.*, 42:359–393, 1984.
- [14] M. Ghil. Cryothermodynamics: the chaotic dynamics of paleoclimate. *Physica D*, 77:130–159, 1994.
- [15] M. Ghil and S. Childress. *Topics in Geophysical Fluid Dynamics: Atmospheric Dynamics, Dynamo Theory and Climate Dynamics*. Springer-Verlag, New York, 1987.
- [16] H. Gildor and E. Tziperman. Sea ice as the glacial cycles climate switch: role of seasonal and Milankovitch solar forcing. *Paleoceanography*, 15:605–615, 2000.
- [17] H. Gildor and E. Tziperman. Physical mechanisms behind biogeochemical glacial-interglacial CO_2 variations. *Geophys. Res. Letters*, 28:2421–2424, 2001.
- [18] H. Gildor and E. Tziperman. A sea-ice climate-switch mechanism for the 100 kyr glacial cycles. *J. Geophys. Res.*, 106(C5):9117–9133, 2001.
- [19] A. E. Gill. Some simple solutions for heat-induced tropical circulation. *Quart. J. Roy. Meteor. Soc.*, 106:447–462, 1980.
- [20] A. E. Gill. *Atmosphere–ocean dynamics*. Academic Press, London, 1982.

- [21] Z. Hao, J. D. Neelin, and F.F. Jin. Nonlinear air-sea interaction in the fast-wave limit. *J. Climate*, 6:1523–1544, 1993.
- [22] I.M. Held. Climate models and the astoromical theory of ice age. *Icarus*, 50:449–461, 1982.
- [23] A. C. Hirst. Unstable and damped equatorial modes in simple coupled ocean-atmosphere models. *J. Atmos. Sci.*, 43:606–630, 1986.
- [24] T. J. Hughes. *Ice sheets*. Oxford University Press, 1998.
- [25] P. Huybrechts and J. Oerlemans. Response of the antarctic ice sheet to future greenhouse warming. *Clim. Dyn.*, 5:93–102, 1990.
- [26] J. Imbrie and J. Z. Imbrie. modelling the climatic response to orbital variations. *Science*, 207:943–953, 1980.
- [27] F.-F. Jin. An equatorial ocean recharge paradigm for enso. part i: conceptual model. *J. Atmos. Sci.*, 54:811–829, 1997.
- [28] F.-F. Jin. An equatorial ocean recharge paradigm for enso. part ii: a stripped-down coupled model. *J. Atmos. Sci.*, 54:830–847, 1997.
- [29] F.-F. Jin and D. Neelin. Models of interannual tropical ocean-atmosphere interaction - a unified view. part i: numerical results. *J. Atmos. Sci.*, 50:3477–3503, 1993.
- [30] F.-F. Jin and D. Neelin. Models of interannual tropical ocean-atmosphere interaction - a unified view. part iii: analytical results in fully coupled cases. *J. Atmos. Sci.*, 50:3523–3540, 1993.
- [31] F-F Jin, D. Neelin, and M. Ghil. Enso on the devil’s staircase. *Science*, 264:70–72, 1994.
- [32] R. Kleeman and A. M. Moore. A theory for the limitation of enso predictability due to stochastic atmospheric transients. *JAS*, 54:753–767, 1997.
- [33] H. Le-Treut and M. Ghil. Orbital forcing, climatic interactions, and glaciations cycles. *J. Geophys. Res.*, 88:5167–5190, 1983.
- [34] K.A. Maasch and B. Saltzman. A low-order dynamical model of global climatic variability over the full pleistocene. *J. Geophys. Res.*, 95:1955–1963, 1990.
- [35] G.H. Miller and A. de Vernal. Will greenhouse warming lead to northern hemisphere ice-sheet growth? *Nature*, 355:244–246, 1992.
- [36] M. Munnich, M. A. Cane, and S. E. Zebiak. A study of self-excited oscillations of the tropical ocean-atmosphere system. *J. Atmos. Sci.*, 48:1238–1248, 1991.
- [37] J. D. Neelin. The slow sea surface temperature mode and the fast-wave limit: analytic theory for tropical interannual oscillations and and experiments in a hybrid coupled model. *J. Atmos. Sci.*, 48:584–605, 1991.
- [38] J. D. Neelin and F.-F. Jin. Models of interannual tropical ocean-atmosphere interaction - a unified view. part ii: analytical results in the weak-coupling limit. *J. Atmos. Sci.*, 50:3504–3522, 1993.
- [39] J. Oerlemans. Some basic experiments with a vertically integrated ice sheet model. *Tellus*, 33:1–11, 1981.
- [40] D Paillard. The timing of pleistocene glaciations from a simple multiple-state climate model. *Nature*, 391:378–381, 1998.

- [41] D. Paillard. Glacial cycles: toward a new paradigm. *reviews of geophysics*, 39:325–346, 2001.
- [42] W. S. B. Paterson. *The physics of glaciers*. Pergamon, 3rd edition, 1994.
- [43] J. Pedlosky. *Geophysical Fluid Dynamics*. Springer-Verlag, Berlin-Heidelberg-New York., 1979.
- [44] W.R. Peltier and S. Marshall. Coupled energy-balance/ice-sheet model simulations of the glacial cycles: a possible connection between terminations and terrigenous dust. *J. Geophys. Res.*, 100:14,269–14,289, 1995.
- [45] C. Penland and P. D. Sardeshmukh. The optimal-growth of tropical sea-surface temperature anomalies. *Journal of Climate*, 8(8):1999–2024, August 1995.
- [46] S. G. Philander. El Niño southern oscillation phenomena. *Nature*, 302:295–301, 1983.
- [47] S. G. H. Philander. *El Niño, La Niña, and the Southern Oscillation*. Academic Press, San Diego, 1990.
- [48] D. Pollard. A simple ice sheet model yields realistic 100 kyr glacial cycles. *Nature*, 296:334–338, 1982.
- [49] D. Pollard. A coupled climate-ice sheet model applied to the quaternary ice ages. *Journal of Geophysical Research-Oceans and Atmospheres*, 88:7705–7718, 1983.
- [50] D. Pollard. Ice-age simulations with a calving ice-sheet model. *Quat. Res.*, 20:30–48, 1983.
- [51] J. A. Rial. Pacemaking the ice ages by frequency modulation of earth’s orbital eccentricity. *Science*, 285:564–568, 1999.
- [52] B. Saltzman and A. Sutera. A model of the internal feedback system involved in late quaternary climatic variations. *J. Atmos. Sci.*, 41:736–745, 1984.
- [53] Barry Saltzman. Carbon dioxide and the $\delta^{18}O$ record of late-quaternary climatic change: a global model. *Climate Dyn.*, 1:77–85, 1987.
- [54] H. G. Schuster. *Deterministic Chaos*. VCH, 2nd edition, 1989.
- [55] H. Stommel. Thermohaline convection with two stable regimes of flow. *Tellus*, 13:224–230, 1961.
- [56] M. J. Suarez and P. S. Schopf. A delayed action oscillator for ENSO. *J. Atmos. Sci.*, 45:3283–7, 1988.
- [57] J. R. Toggweiler. Variation of atmospheric CO_2 by ventilation of the ocean’s deepest water. *Paleoceanography*, 14:572–588, 1999.
- [58] E. Tziperman, M. A. Cane, and S. E. Zebiak. Irregularity and locking to the seasonal cycle in an ENSO prediction model as explained by the quasi-periodicity route to chaos. *Journal of the Atmospheric Sciences*, 52(3):293–306, feb 1 1995.
- [59] E. Tziperman, M. A. Cane, S. E. Zebiak, Y. Xue, and B. Blumenthal. Locking of el nino’s peak time to the end of the calendar year in the delayed oscillator picture of ENSO. *Journal of Climate*, 11(9):2191–2199, September 1998.
- [60] E. Tziperman and H. Gildor. The mid-pleistocene climate transition and the source of asymmetry between glaciation and deglaciation times. *submitted*, 2001.
- [61] E. Tziperman, L. Stone, M. A. Cane, and H. Jarosh. El-nino chaos: Overlapping of resonances between the seasonal cycle and the Pacific ocean-atmosphere oscillator. *Science*, 264(5155):72–74, apr 1 1994.

- [62] E. Tziperman, S. E. Zebiak, and M. A. Cane. Mechanisms of seasonal: Enso interaction. *Journal of the Atmospheric Sciences*, 54(1):61–71, jan 1 1997.
- [63] T. Volk and M.I. Hoffert. Ocean carbon pumps: analysis of relative strengths and efficiencies in ocean-driven atmospheric CO_2 changes. In E. T. Sundquist and W. S. Broecker, editors, *The carbon cycle and atmospheric CO_2 : natural variations Archean to present*, volume 32 of *Geophysical monograph*, pages 99–110. American Geophysical Union, 1985.
- [64] A. J. Watson and P. S. Liss. Marine biological controls on climate via the carbon and sulphur geochemical cycles. *Phil. Trans. R. Soc. Lond. B*, 353:41–51, 1998.
- [65] R.G. Watts and E. Hayder. A two-dimensional, seasonal, energy balance climate model with continents and ice sheets: testing the milankovitch theory. *Tellus*, 36:120–131, 1984.
- [66] S. E. Zebiak and M. A. Cane. A model El Niño-Southern Oscillation. *Mon. Wea. Rev.*, 115:2262–2278, 1987.