

## 8. References

- ANTHES, R. A., 1977: A cumulus parameterisation scheme utilising a one-dimensional cloud model. *Mon. Wea. Rev.*, **105**, 270-286
- ARAKAWA, A., and W. H. SCHUBERT, 1974: The interaction of a cumulus cloud ensemble with the large-scale environment, Part 1. *J. Atmos. Sci.*, **31**, 674-701
- BENNER, T. C., and J. A. CURRY, 1998: Characteristics of small tropical cumulus clouds and their impact on the environment. *J. Geophys. Res.*, **103**, 28,753-28,767
- BREWER, J., and L. DI GIROLAMO, 2004: Can the fractal dimension of clouds be measured? 14<sup>th</sup> International Conference on Clouds and Precipitation. Proceedings Vol.3, 1632-1635. Bologna, Italy. 19-23 July 2004
- CAHALAN, R. F., and J. H. JOSEPH, 1989: Fractal statistics of cloud fields. *Mon. Wea. Rev.*, **117**, 261-272
- COHEN, B. J., 2001: Fluctuations in an ensemble of cumulus clouds. Ph.D thesis, University of Reading
- CUIYPERS, J. W. M., and P. G. DUYNKERKE, 1993: Large eddy simulation of trade wind cumulus clouds. *J. Atmos. Sci.*, **50**, 3894-3908
- DONNER, L. J., 1993: A cumulus parameterization including mass fluxes, vertical momentum dynamics, and mesoscale effects. *J. Atmos. Sci.*, **50**, 889-906
- FRANK, W. M., and C. COHEN, 1985: Properties of tropical cloud ensembles estimated using a cloud model and an observed updraft population, *J. Atmos. Sci.*, **42**, 1911- 1928
- HOZUMI, K., T. HARIMAYA and C. MAGONO, 1982: The size distribution of cumulus clouds as a function of cloud amount. *J. Meteor. Soc. Japan*, **60**, 691-699
- IPCC, 2001: Climate change 2001: The scientific basis (Summary for policymakers. A report of Working Group 1 of the Intergovernmental Panel on Climate Change)
- KUO, K-S., R. M. WELCH and R. C. WEGER, 1993: The three-dimensional structure of cumulus clouds over the ocean, 1, Structural analysis. *J. Geophys. Res.*, **98**, 20,685-20,711
- LEMON, M. A., and E. J. ZIPSER, 1980: Cumulonimbus vertical velocity events in GATE. Part I: Diameter, intensity, and mass flux. *J. Atmos. Sci.*, **37**, 2444-2457
- LOPEZ, R. E., 1977: The lognormal distribution and cumulus cloud properties. *Mon. Wea. Rev.*, **105**, 865-872

MACHADO, L. A. T., and W. B. ROSSOW, 1993: Structural Characteristics and Radiative Properties of Tropical Cloud Clusters. *Mon. Wea. Rev.*, **121**, 3234-3260

NAIR, U. S., R. C. WEGER, K. S. KUO and R. M. WELCH, 1998: Clustering, randomness and regularity in cloud fields, 5. The nature of regular cumulus cloud fields. *J. Geophys. Res.*, **103**, 11,363-11,380

NEGGER, R. A. J., H. J. J. JONKER and A. P. SIEBESMA, 2003a: Size statistics of cumulus cloud populations in large-eddy simulations. *J. Atmos. Sci.*, **60**, 1060-1074

NEGGER, R. A. J., P. G. DUYNKERKE and S. M. A. RODTS, 2003b: Shallow cumulus convection: A validation of large-eddy simulation against aircraft and Landsat observations, *J. R. Meteorol. Soc.*, **129**, 2671-2969

NOBER, F. J., 2003: Convective cloud field model based on principles of self organisation. Dissertation, University of Hamburg

PLANK, V. G., 1969: The size distribution of cumulus clouds in representative Florida populations, *J. Appl. Meteor.*, **8**, 46-67

PLANT, R. S., and G. C. CRAIG, 2004: Stochastic convective parameterisation with multiple plumes. 14<sup>th</sup> International Conference on Clouds and Precipitation. Proceedings Vol.2, 1401-1403. Bologna, Italy. 19-23 July 2004

RANDALL, D., M. KHAIROUTDINOV, A. ARAKAWA, and W. GRABOWSKI, 2003: Breaking the cloud parameterization deadlock. *Bull. Amer. Meteor. Soc.*, Nov, 1547-1564

RANDALL, D. A., AND L. D. FOWLER, 1999: Eauliq: The next generation. Colorado State University Atmospheric Science Paper No. 673, 65

RODTS, S. M. A., P. G. DUYNKERKE and H. J. J. JONKER, 2003: Size distributions and dynamical properties of shallow cumulus clouds from aircraft observations and satellite data. *J. Atmos. Sci.*, **60**, 1895-1912

SENGUPTA, S. K., R. M. WELCH, N. S. NAVAR, T. A. BERENDES, and D. W. CHEN, 1990: Cumulus cloud field morphology and spatial patterns derived from high spatial resolution Landsat imagery. *J. Appl. Meteor.*, **29**, 1245-1267

SIEBESMA, A. P. and H. J. J. JONKER, 2000: Anomalous scaling of cumulus cloud boundaries. *Phys. Rev. Lett.*, **85**, 214-217

SIEBESMA, A. P., C. S. BRETHERTON, A. BROWN, A. CHLOND, J. CUXART, P. G. DUYNKERKE, H. JIANG, M. KHAIROUTDINOV, D. LEWELLEN, C-H. MOENG, E. SANCHEZ, B. STEVENS and D. E. STEVENS, 2003: A large eddy simulation intercomparison study of shallow cumulus convection. *J. Atmos. Sci.*, **60**, 1201-1219

TAO, W-K., J. SIMPSON and S-T. SOONG, 1987: Statistical properties of a cloud ensemble: A numerical study. *J. Atmos. Sci.*, **44**, 3175-3187

TIEDTKE, M., 1989: A comprehensive mass flux scheme for cumulus parameterisation in large-scale models. *Mon. Wea. Rev.*, **117**, 1779-1800

WIELICKI, B. A., and R. M. WELCH, 1986: Cumulus cloud properties derived using Landsat satellite data, *J. Climate Appl. Meteor.*, **25**, 261-276

XU, K-M., and D. A. RANDALL, 2001: Updraft and downdraft statistics of simulated tropical and midlatitude cumulus convection. *J. Atmos. Sci.*, **58**, 1630-1649

YAO, M-S, and A. D. DEL GENIO, 1999: Effects of cloud parameterisations on the simulation of climate changes in the GISS GCM. *J. Clim.*, **12**, 761-779

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