

# 10 most significant publications by Petri Räisänen

16 June 2016

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Tonttila, J., H. Järvinen and P. Räisänen, 2015: Explicit representation of sub-grid variability in cloud microphysics yields weaker aerosol indirect effect in the ECHAM5-HAM2 climate model. *Atmos. Chem. Phys.*, **15**, 703–714, doi:10.5194/acp-15-703-2015.

Räisänen, P., P. Haapanala, C. E. Chung, M. Kahnert, R. Makkonen, J. Tonttila, and T. Nousiainen, 2013: Impact of dust particle non-sphericity on climate simulations. *Quart. J. Roy. Meteor. Soc.*, **139**, 2222–2232. DOI:10.1002/qj.2084

Pirazzini, R., and P. Räisänen, 2008: A method to account for surface albedo heterogeneity in single column radiative transfer calculations under overcast conditions. *J. Geophys. Res.*, **113**, D20108, doi:10.1029/2008JD009815.

Räisänen, P., S. Järvenoja, H. Järvinen, M. Giorgetta, E. Roeckner, K. Jylhä and K. Ruosteenoja, 2007: Tests of Monte Carlo Independent Column Approximation in the ECHAM5 atmospheric GCM. *J. Climate*, **20**, 4995–5011.

Räisänen, P., H. W. Barker and J. N. S. Cole, 2005: The Monte Carlo Independent Column Approximation's conditional random noise: Impact on simulated climate. *J. Climate*, **18**, 4715–4730.

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Räisänen, P., 1998: Effective longwave cloud fraction and maximum-random overlap of clouds: A problem and a solution. *Mon. Wea. Rev.*, **126**, 3336–3340.