

## REFEREED PUBLICATIONS

1. Raymond, D. J., Z. **Fuchs**, S. Gjorgjievska, S. L. Sessions, 2015: [Balanced dynamics and convection in the tropical troposphere](#), J. Adv. Model. Earth Syst., 07, doi:10.1002/2015MS000467.
  2. Stipo Sentic, Sharon Sessions, Zeljka **Fuchs**: Diagnosing Convection with Weak Temperature Gradient Simulations of DYNAMO. 2015. Journal of Advances in Modeling Earth Systems. doi: [10.1002/2015MS000531](#). [EOS.org Research Spotlight](#). [JAMES Highlights](#)
  3. Michael J. Herman; Zeljka **Fuchs**; David J. Raymond; Peter Bechtold, 2015: Convectively Coupled Kelvin Waves: From linear theory to global models. Journal of the Atmospheric Sciences. DOI: <http://dx.doi.org/10.1175/JAS-D-15-0153.1>
  4. Raymond, D. J., Z. **Fuchs**, S. Gjorgjievska, S. L. Sessions, 2015: Balanced dynamics and convection in the tropical troposphere, J. Adv. Model. Earth Syst., 07, doi:10.1002/2015MS000467. (*The editors of Journal of Advances in Modeling Earth Systems have selected a paper "Balanced dynamics and convection in the tropical troposphere" (MS# 2015MS000467) to be featured as a Research Spotlight on <https://Eos.org> and on the journal's website.*)
  5. Yano, J.; Geleyn, J.-F.; Köhler, M.; Mironov, D.; Quaas, J.; Soares, P.M.M.; Phillips, V.T.J.; Plant, R.S.; Deluca, A.; Marquet, P.; Stulic, L.; **Fuchs**, Z. Basic Concepts for Convection Parameterization in Weather Forecast and Climate Models: COST Action ES0905 Final Report. *Atmosphere* **2015**, 6, 88-147.
  6. **Fuchs**, Z., S. Sessions, and D. J. Raymond, 2014: Simulating Convectively Coupled Kelvin Waves from CRM: Thermodynamics, Dynamics, and Model Parameters, *Tellus A*, 66, 22107, <http://dx.doi.org/10.3402/tellusa.v66.22107>.
  7. **Fuchs**, Z, Herman M. and Raymond D. J., 2014: [Frictional convergence in a weak decaying vortex](#). Journal of the Atmospheric Sciences. 71, 2467-2475.
  8. Raymond, D. J., S. Gjorgjievska, S. Sessions, and Z. **Fuchs**, 2014: [Tropical cyclogenesis and mid-level vorticity](#). Australian Meteorological and Oceanographic Journal, 64, 11-25.
  9. **Fuchs**, Z., S. Gjorgjievska, and D. J. Raymond, 2012: Effects of varying the shape of the convective heating profile on convectively coupled gravity waves and moisture modes. Journal of the Atmospheric Sciences. August 2012, Vol. 69, No. 8 : pp. 2505-2519. doi: 10.1175/JAS-D-11-0308.
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10. Comellas, A., **Fuchs** Z., Molini L., and A. Parodi, 2012: [Saturation fraction and gross moist stability in severe precipitating systems in the midlatitude Mediterranean environment](#). *Atmospheric Research*, 123, 360-367. doi: 10.1016/j.atmosres.2012.07.010.
11. Yano, J. I. M. Bister, Z. **Fuchs**, L. Gerard, V. Phillips, S. Barkidija, and J. M. Pirious, 2012: Phenomenology of convection-parameterization closure. *Atmospheric Chemistry and Physics*. 12, 25743–25789.
12. Barkidija S, and Z. **Fuchs**, 2012: [Precipitation Correlation Between Convective Available Potential Energy, Convective Inhibition and Saturation Fraction in Middle Latitudes](#). *Atmospheric Research*, 124, 170–180.
13. Dokleštic, D., Z. **Fuchs** and A. Marki, 2010: Convectively coupled Kelvin waves and convective inhibition. *Geophysics*, 27, 21-36.
14. Raymond, D. J., S. Sessions, A. H. Sobel, Z. **Fuchs**, 2009: **Error! Hyperlink reference not valid.** *J. Adv. Model Earth Syst.*, Vol. 1, 20 pp.
15. Raymond, D. J., and Z. **Fuchs**, 2009: **Error! Hyperlink reference not valid.** *J. Climate*, 22, 3031-3046.
16. Raymond, D. J., and Z. **Fuchs**, 2007: [Convectively coupled gravity and moisture modes in a simple atmospheric model](#). *Tellus*, 59A, 627-640.
17. **Fuchs** , Z., and D. J. Raymond, 2007: **Error! Hyperlink reference not valid.** *Tellus*. 59A, 344-354.
18. Raymond, D. J., S. Sessions, and Z. **Fuchs**, 2007: [A theory for the spinup of tropical depressions](#). *Quarterly Journal of the Royal Meteorological Society*. 133, 1743-1754.
19. **Fuchs**, Z., and A. Marki, 2007: Large-scale modes of the tropical atmosphere. Part II: analytical modelling of Kelvin waves using the CAPE closure. *Geophysics*. 24. 43-55.
20. **Fuchs**, Z., 2007: Analytical model of equatorial waves with CAPE and moisture closure. *Geophysics*. 24. 29-42.
21. **Fuchs**, Z., and A. Marki, 2006: Large-Scale Modes of the Tropical Atmosphere. Part I: Analytical Modeling of Convectively Coupled Kelvin Waves Using the Boundary-Layer Quasiequilibrium Approximation. *Geophysics*. 23. 155-164.
22. **Fuchs**, Z., D. J. Raymond, 2005: [Large-Scale Modes in a Rotating Atmosphere with Radiative- Convective Instability and WISHE](#). *Journal of the Atmospheric Sciences*. 62, 4084-4094.
23. Raymond, D. J., G. Raga, C. Bretherton, J. Molinari, C. Lopez-Carrillo, Z. **Fuchs** , 2003: [Convective Forcing in the Intertropical Convergence Zone of the Eastern Pacific](#). *Journal of the Atmospheric Sciences*, 60, 2064-2082
24. **Fuchs** , Z., D. J. Raymond, 2002: [Large -Scale Modes of a Nonrotating Atmosphere with Water Vapor and Cloud-Radiation Feedbacks](#). *Journal of the Atmospheric Sciences*. 59, 1669-1679.