

Bibliography for the DPAH Hypothesis

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Works Cited

- Atkinson, J. D., Murray, B. J., & O'Sullivan, D. (2016). Rate of Homogeneous Nucleation of Ice in Supercooled Water. *The Journal of Physical Chemistry A*, 120(33), 6513-6520. <https://doi.org/10.1021/acs.jpca.6b03843>
- Feldl, N., & Merlis, T. M. (2023). A Semi-Analytical Model for Water Vapor, Temperature, and Surface-Albedo Feedbacks in Comprehensive Climate Models. *Geophysical Research Letters*, 50(21). <https://doi.org/10.1029/2023GL105796>
- Feldl, N., Feng, J., & Paynter, D. (2026). Explaining the Transient and Equilibrium Longwave Feedback with Moist Adiabatic Theory and Its Deviations. *Journal of Climate*, 39(2), 715 - 726. <https://doi.org/10.1175/JCLI-D-25-0228.1>
- Fueglistaler, S., Dessler, A. E., Dunkerton, T. J., Folkins, I., Fu, Q., & Mote, P. W. (2009). Tropical tropopause layer. *Reviews of Geophysics*, 47(1). <https://doi.org/10.1029/2008RG000267>
- Held, I., & Soden, B. (2000). Water Vapor Feedback and Global Warming. *Annual review of Energy and the Environment*, 25(1), 441-475. <https://doi.org/10.1146/annurev.energy.25.1.441>
- IPCC. (2021). Climate Change 2021: The Physical Science Basis. In V. Masson-Delmotte, P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, . . . B. Zhou (Ed.), *WG1*. Retrieved from <https://www.ipcc.ch/report/ar6/wg1/>
- Jensen, E., G. Diskin, Lawson, R., Lance, S., Bui, T., . . . Gao, R. (2013). Ice nucleation and dehydration in the Tropical Tropopause Layer. *Proc. Natl. Acad. Sci.*, 110(6). <https://doi.org/10.1073/pnas.1217104110>
- Mauritsen, T., & Stevens, B. (2015). Missing iris effect as a possible cause of muted hydrological change and high climate sensitivity in models. *Nature Geoscience*, 8, 346-351. Retrieved from <https://www.nature.com/articles/ngeo2414>
- May, A. (2025). The Molar Density Tropopause Proxy and its relation to the ITCZ and Hadley Circulation. <https://doi.org/10.17605/OSF.IO/KBP9S>

- May, A., & Crok, M. (2024, May 29). Carbon dioxide and a warming climate are not problems. *American Journal of Economics and Sociology*, 1-15. <https://doi.org/10.1111/ajes.12579>
- McKittrick, R., & Christy, J. (2020). Pervasive Warming Bias in CMIP6 Tropospheric Layers. *Earth and Space Science*, 7. <https://doi.org/10.1029/2020EA001281>
- Mitchell, D. L. (2002). Effective Diameter in Radiation Transfer: General Definition, Applications, and Limitations. *Journal of the Atmospheric Sciences*, 59(15), 2330 - 2346. [https://doi.org/10.1175/1520-0469\(2002\)059<2330:EDIRTG>2.0.CO;2](https://doi.org/10.1175/1520-0469(2002)059<2330:EDIRTG>2.0.CO;2)
- Mulholland, P. (2026a). *The Independent Variable in Geoscience Modelling: Why the Dew-Point Anchor Hypothesis Matters*. Zenodo. <https://doi.org/10.5281/zenodo.19486181>
- Mulholland, P. (2026b). *DPAH Testbed: A Simple 1D Radiative-Convective Equilibrium Model with Dew-Point Anchor Hypothesis (Python Implementation)*. Zenodo. <https://doi.org/10.5281/zenodo.20361849>
- Mulholland, P. (2026c). DPAH Markovian Matrix: Dew-Point Anchor Hypothesis – Fully Coupled Hadley-Cell Model with Canary Current Winter Descent (Runs 501–507). *Zenodo*. Retrieved from <https://zenodo.org/records/20022755>
- Po-Chedley, S., Fasullo, J., Siler, N., Labe, Z., Barnes, E., Bonfils, C., & Santer, B. (2022). Internal variability and forcing influence model–satellite differences in the rate of tropical tropospheric warming. *Proc. Natl. Acad. Sci.*, 119(47). <https://doi.org/10.1073/pnas.2209431119>
- Yang, P., Bi, L., Baum, B. A., Liou, K.-N., Kattawar, G. W., Mishchenko, M. I., & Cole, B. (2013). Spectrally Consistent Scattering, Absorption, and Polarization Properties of Atmospheric Ice Crystals at Wavelengths from 0.2 to 100 μm . *Journal of the Atmospheric Sciences*, 70(1), 330 - 347. <https://doi.org/10.1175/JAS-D-12-039.1>