

PROFESSOR DENNIS L. HARTMANN**Books**

Hartmann, D.L., *Global Physical Climatology*, Academic Press, San Diego, 411pp., 1994, Second Edition 2016, Third Edition 2025.

Wallace, John. M., David S. Battisti, David W.J. Thompson and Dennis L. Hartmann, *The Atmospheric General Circulation*, Cambridge University Press, 406pp., 2023

Magazine Articles and Perspectives

Hartmann, D.L., Droughts, severe winters and sudden stratospheric warmings, *Nature*, **23**, 97-98, 1981.

Hartmann, D. L., Blowin' hot air. *Forbes*, **160**, 24-24. 1997

Hartmann, D. L., 2002: Tropical Surprises. *Science*, **295**, 811-812.

Hartmann, D. L. and H. H. Hendon, 2007: Resolving an Atmospheric Enigma. *Science*, **318**, 1731-1732.

Reports

Hartmann, D.L.: *Our Changing Climate*. Reports to the Nation on Our Changing Planet, No. 4, University Corporation for Atmospheric Research, Boulder, 25pp. 1997

NRC, Understanding Climate Change Feedbacks, National Academies Press, Washington, D.C. 152 pp, (DLH was Panel Chair and lead author), 2003

NRC, Review of the US Climate Change Science Program's Synthesis and Assessment Product on Temperature Trends in the Lower Atmosphere, 61 pp., 2005.

NRC, Earth Observations from Space: The First 50 Years of Scientific Achievements, 129pp, 2008.

NRC, America's Climate Choices, 116pp, 2011

IPCC, Climate Change 2013: The Physical Science Basis, 1535 pages, 2013.

Book Reviews.

Hartmann, D.L., Book review of J. R. Holton, The dynamical meteorology of the stratosphere and mesosphere, *Atmosphere*, **13**, 205-206, 1975.

Hartmann, D.L., Book review of J. G. Lockwood, Causes of climate, *EOS, Transactions of the American Geophysical Union*, **61**, 35, 1980.

Hartmann, D.L., Book review of G. Briggs, and F. Taylor, The Cambridge photographic atlas of the planets, *Nature*, **300**, 666-667, 1982.

Hartmann, D.L., Book review of H. E. Landsberg, World survey of climatology; Volume 3; General Climatology 3, *EOS, Transactions of the American Geophysical Union*, **Vol. 63, 12**, 223, 1982.

- Hartmann, D.L., Book review of G. Brasseur and S. Solomon, Aeronomy of the middle atmosphere, *Bulletin of the American Meteorological Society*, **66**, 553-554, 1986.
- Hartmann, D.L., Book review of J. A. Dutton, The ceaseless wind: An introduction to the theory of atmospheric motion, *Bulletin of the American Meteorological Society*, **69**, 54, 1988.
- Hartmann, D.L., Book review of G. Visconti and R.R. Garcia, Eds., Transport processes in the middle atmosphere, *Bulletin of the American Meteorological Society*, **69**, 775, 1988.
- Hartmann, D.L., Book review of A. S. Monin, An introduction to the theory of climate, *Journal of Fluid Mechanics*, **193**, 596-597, 1988.
- Hartmann, D.-L.: Image 2.0: Integrated Modeling of Global Climate Change. (book reviews). *Bulletin of the American Meteorological Society*. March, **77**, 569, 1996.

Encyclopedia Articles.

- Hartmann, D.L., Climatology, *McGraw-Hill Encyclopedia of Science and Technology*, Vol. **4**, 7-14, 1992.
- Hartmann, D.L., Climatology, *McGraw-Hill Encyclopedia of Science and Technology*, 8th edition, vol 4 , pp 15-23, 1997, also 2011.
- Hartmann, D.L., Climate Overview. *Encyclopedia of the Atmospheric Sciences*, pp 403-411, 2002, and 2011.

Publications in Refereed Scientific Journals and edited books.

1974

- Hartmann, D.L., Time spectral analysis of mid-latitude disturbances, *Monthly Weather Review*, **102**, 348-362, 1974.

1976

- Hartmann, D.L., The structure of the stratosphere in the Southern Hemisphere during late winter, 1973, as observed by satellite, *Journal of the Atmospheric Sciences*, **33**, 1141-1154, 1976.
- Hartmann, D.L., The dynamic climatology of the stratosphere in the Southern Hemisphere during late winter 1973, *Journal of the Atmospheric Sciences*, **33**, 1789-1802, 1976.
- Hartmann, D.L., Dynamic studies of the Southern Hemisphere stratosphere, *Space Research*, **19**, 167-174, 1976.

1977

- Hartmann, D.L., Comment on stratospheric long waves: Comparison of thermal structure in the northern and southern hemispheres, *Journal of the Atmospheric Sciences*, **34**, 434-435, 1977.
- Hartmann, D.L., On potential vorticity and transport in the stratosphere, *Journal of the Atmospheric Sciences*, **34**, 968-977, 1977.

Hartmann, D.L., Stationary planetary waves in the Southern Hemisphere, *Journal of Geophysical Research*, **82**, 4930-4934, 1977.

1978

Hartmann, D.L., A note concerning the effect of varying extinction on radiative-photochemical relaxation, *Journal of the Atmospheric Sciences*, **35**, 1125-1130, 1978.

1979

Hartmann, D.L. and R.R. Garcia, A mechanistic model of ozone transport by planetary waves in the stratosphere, *Journal of the Atmospheric Sciences*, **36**, 350-364, 1979.

Hartmann, D.L., and D.A. Short, On the role of zonal asymmetries in climate change, *Journal of the Atmospheric Sciences*, **36**, 519-528, 1979.

Thompson, S.L., and D.L. Hartmann, Cumulus friction: Estimated influence on the tropical mean meridional circulation, *Journal of the Atmospheric Sciences*, **36**, 2022-2036, 1979.

Hartmann, D.L., Baroclinic instability of realistic zonal mean states to planetary waves, *Journal of the Atmospheric Sciences*, **36**, 1226-2349, 1979.

1980

Hartmann, D.L., and D.A. Short, On the use of earth radiation budget statistics for studies of clouds and climate, *Journal of the Atmospheric Sciences*, **37**, 1233-1250, 1980.

Hartmann, D.L., and S.J. Ghan, A statistical study of the dynamics of blocking, *Monthly Weather Review*, **108**, 1144-1159, 1980.

Garcia, R.R., and D.L. Hartmann, The role of planetary waves in the maintenance of the zonally average ozone distribution of the stratosphere, *Journal of the Atmospheric Sciences*, **37**, 2248-2264, 1980.

Thompson, S.L., and D.L. Hartmann, Reply to Schneider & Lindzen, *Journal of the Atmospheric Sciences*, **37**, 2806-2808, 1980.

1981

Hartmann, D.L., Some aspects of the coupling between radiation, chemistry and dynamics in the stratosphere, *Journal of Geophysical Research*, **86**, 9631-9640, 1981.

1982

Liebmann B., and D.L. Hartmann, Interannual variations of outgoing IR associated with tropical circulation changes, *Journal of the Atmospheric Sciences*, **39**, 1153-1162, 1982.

Hendon, H.H., and D.L. Hartmann, "Stationary waves on a sphere: Sensitivity to thermal feedback, *Journal of the Atmospheric Sciences*, **39**, 1906-1920, 1982.

Mechoso, C.R., and D.L. Hartmann, An observational study of traveling planetary waves in the southern hemisphere, *Journal of the Atmospheric Sciences*, **39**, 1921-1935, 1982.

1983

- Hartmann, D.L., Barotropic instability of polar night jet stream, *Journal of the Atmospheric Sciences*, **40**, 817-835, 1983.
- Hartmann, D.L., Middle atmosphere dynamics, *Reviews of Geophysics and Space Physics*, **21**, 283-290, 1983.

1984

- Hartmann, D.L., H.H. Hendon and R.A. Houze, Jr., Some implications of the mesoscale circulations in cloud clusters for large-scale dynamics and climate, *Journal of the Atmospheric Sciences*, **41**, 113-121, 1984.
- Salby, M.L., D.L. Hartmann, P.L. Bailey and J.C. Gille, Evidence for equatorial Kelvin modes in Nimbus-7 LIMS, *Journal of the Atmospheric Sciences*, **41**, 220-235, 1984.
- Hartmann, D.L., C.R. Mechoso and K. Yamazaki, Observations of wave-mean flow interaction in the Southern Hemisphere, *Journal of the Atmospheric Sciences*, **41**, 351-362, 1984.
- Liebmann, B., and D.L. Hartmann, Low frequency variability and tropical extratropical interaction during winter, *Journal of the Atmospheric Sciences*, **41**, 3333-3350, 1984.
- Hartmann, D.L., On the role of global-scale waves in ice-albedo and vegetation-albedo feedback, *Geophysical Monograph 29, Maurice Ewing Volume 5*, American Geophysical Union, Washington, D.C., 18-28, 1984.

1985

- Mechoso, C.R., D.L. Hartmann, and J. Farrara, Climatology and interannual variability of wave, mean-flow interaction in the Southern Hemisphere, *Journal of the Atmospheric Sciences*, **42**, 2189-2206, 1985.
- Hendon, H.H., and D.L. Hartmann, Variability in a nonlinear model of the atmosphere with zonally-symmetric forcing, *Journal of the Atmospheric Sciences*, **42**, 2783-2797, 1985.
- Hartmann, D.L., Some aspects of stratospheric dynamics, *Advances in Geophysics*, **28A**, 219-247, 1985.

1986

- Hartmann, D.L., and E. Recker, On the diurnal variation of outgoing longwave radiation in the tropics, *Journal of Climate and Applied Meteorology*, **25**, 800-812, 1986.
- Hartmann, D.L., V. Ramanathan, A. Berroir, and G. Hunt, Earth radiation budget data and climate research, *Reviews of Geophysics and Space Physics*, **24**, 439-468, 1986.
- ERBE Science Team, First data from the Earth Radiation Budget Experiment (ERBE), *Bulletin of the American Meteorological Society*, **67**, 818-824, 1986.

1988

- Hartmann, D.L. and R.T. Watson, Observations and Theories Related to Antarctic Ozone Changes, Chapter 11 in *Report of the International Ozone Trends Panel 1988*. WMO Report No. 18, 665-750, 1988.
- Hartmann, D.L., A note on the comparison of finite-element to finite-difference methods for the representation of vertical structure in model atmospheres, *Monthly Weather Review*, **116**, 269-273, 1988.
- Hartmann, D.L. and J.R. Gross, On the seasonal and geographic variability of 40-50 day oscillations in winds and precipitation, *Journal of the Atmospheric Sciences*, **45**, 2680-2702, 1988.

1989

- Ramanathan, V., R.D. Cess, E.F. Harrison, P. Minnis, B.R. Barkstrom, E. Ahmad and D.L. Hartmann, Cloud-radiative forcing and climate: Insights from the Earth Radiation Budget Experiment., *Science*, **243**, 57-63, 1989.
- Hartmann, D.L., K.R. Chan, B.L. Gary, M.R. Schoeberl, P.A. Newman, R.L. Martin, M. Loewenstein, J.R. Podolske and S.E. Strahan, Potential vorticity and mixing in the south polar vortex during spring, *Journal of Geophysical Research*, **94**, 11625-11,640, 1989.
- Hartmann, D.L., L.E. Heidt, M. Loewenstein, J.R. Podolske, J. Vedder, W.L. Starr, and S.E. Strahan, Transport into the south polar vortex in early spring, *Journal of Geophysical Research*, **94**, 16,779-16,795, 1989.
- Schoeberl, M.R., L.R. Lait, P.A. Newman, R.L. Martin, D.L. Hartmann, M. Loewenstein, J. Podolske, S.E. Strahan, M. Proffitt, J. Anderson, K.R. Chan and B. Gary., Reconstruction of the constituent distribution and trends in the antarctic polar vortex from ER-2 flight observations, *Journal of Geophysical Research*, **94**, 16,815-16,845, 1989.
- Hartmann, D.L., and M.L. Michelsen, Intraseasonal periodicities in Indian rainfall. *Journal of the Atmospheric Sciences.*, **46**, 2838-2862, 1989.

1990

- Hartmann, D.L., Dynamical properties of the Antarctic circumpolar vortex inferred from aircraft observations, in *Dynamics, Transport and Photochemistry in the Middle Atmosphere*, A. O'Neill Ed., Kluwer, 117-134, 1990.
- Hartmann, D.L., Modeling of Climate Change, in *Global Climate and Ecosystems Change*, G.J. MacDonald and L. Sertorio, Eds., Plenum Press, New York, 97-140, 1990.

1991

- Schoeberl, M.R., and D.L. Hartmann, The Dynamics of the Polar Vortex, *Science*, **251**, 46-52, 1991.
- Hartmann, D.L., and D.E. Doelling, On the net radiative effectiveness of clouds. *Journal of Geophysical Research*, **96**, 869-891, 1991.
- Hartmann, D.L., K.S. Kowalewsky, and M.L. Michelsen, Diurnal Variations of OLR and Albedo from ERBE Scanner Data. *Journal of Climate*, **4**, 598-617, 1991.

1992

- Borges, M. D., and D. L. Hartmann, Barotropic Instability and Optimal Perturbations of Observed Non-Zonal Flows. *Journal of the Atmospheric Sciences*, **49**, 335-354, 1992.
- Hartmann, D.L., M.L. Michelsen and S. Klein, Seasonal Variations of Tropical Intraseasonal Oscillations: A 20-25 Day Oscillation in the Western Pacific, *Journal of the Atmospheric Sciences*, **49**, 1277-1289, 1992.
- Ockert-Bell, M.E. and D.L. Hartmann, The effect of cloud type on Earth's energy balance: Results for selected regions. *Journal of Climate*, **5**, 1157-1171, 1992.
- Hartmann, D.L., M.E. Ockert-Bell and M.L. Michelsen, The effect of cloud type on Earth's energy balance: Global analysis. *Journal of Climate*, **5**, 1281-1304, 1992.

1993

- Klein, S.A., and D.L. Hartmann, Spurious changes in the ISCCP dataset, *Geophysical Research Letters*, **20**, 455-458, 1993.
- Hartmann, D.L., The Radiative Effect of Clouds on Climate. in *Aerosol-Cloud-Climate Interactions*, Ed. P.V. Hobbs, Academic Press, 151-170, 1993.
- Yu, J.-Y., and D.L. Hartmann, Zonal flow vacillation and eddy forcing in a simple GCM of the atmosphere. *Journal of the Atmospheric Sciences*, **50**, 3244-3259, 1993.
- Klein, S.A., and D.L. Hartmann, The seasonal cycle of low stratiform clouds. *Journal of Climate*, **6**, 1587-1606, 1993.
- Bladé, I., and D.L. Hartmann, Tropical intraseasonal oscillations in a simple nonlinear model. *Journal of the Atmospheric Sciences*, **50**, 2922-2939, 1993
- Hartmann, D.L., and M.L. Michelsen, Large-scale effects on regulation of tropical sea surface temperature. *Journal of Climate*, **6**, 2049-2062, 1993.

1995

- Zuidema, P., and D.L. Hartmann, Satellite determination of stratus cloud properties. *Journal of Climate*, **8**, 1638-1657, 1995.
- Yu, J.-Y., and D.L. Hartmann, Orographic influences on the distribution and generation of atmospheric variability in a GCM, *Journal of the Atmospheric Sciences*, **52**, 2428-2443, 1995.
- Klein, S.A., D.L. Hartmann, and J.R. Norris, On the relationships among low-cloud structure, sea surface temperature, and atmospheric circulation in the summertime northeast Pacific. *Journal of Climate*, **8**, 1140-1155, 1995.
- Udelhofen, P., and D.L. Hartmann, Influence of tropical convective cloud systems on the relative humidity in the upper troposphere. *Journal of Geophysical Research*, **100**, 7423-7440, 1995.
- Hartmann, D.L., A PV view of zonal flow vacillation. *Journal of the Atmospheric Sciences*, **52**, 2561-2576, 1995.
- Hartmann, D.L., R. Buizza, and T.N. Palmer, Singular Vectors: The effect of spatial scale on the growth of linear disturbances. *Journal of the Atmospheric Sciences*, **52**, 3885-3894, 1995.

Bladé, I., and D.L. Hartmann, The linear and nonlinear extratropical response of the atmosphere to transient tropical heating. *Journal of the Atmospheric Sciences*, **52**, 4448-4471, 1995.

Read, W.G., J.W. Waters, D.A. Flower, L. Froidevaux, R.F. Jarnot, D.L. Hartmann, R.S. Harwood, and R.B. Rood, Upper tropospheric water vapor from UARS MLS, *Bull. Amer. Meteor. Soc.*, **76**, No. 12, 2381-2389, 1995.

1996

Hartmann, D. L., T. N. Palmer and R. Buizza: Finite-time instabilities of lower stratospheric flow. *J. Atmos. Sci.*, **53**, 2129-2143, 1996.

1997

Salathé, E.P., and D.L. Hartmann, A Trajectory Analysis of Tropical Upper-Tropospheric Moisture and Convection, *Journal of Climate*, **10**, 2533-2547, 1997

1998

Hartmann, D.L., and P. Zuercher, Response of Baroclinic Lifecycles to Barotropic Shear, *Journal of the Atmospheric Sciences*, **55**, 297-313, 1998

Hartmann, D.L., and F. Lo, Wave-driven zonal flow vacillation in the Southern Hemisphere. *Journal of the Atmospheric Sciences*, **55**, 1303-1315, 1998

Maloney, E., and D.L. Hartmann, Frictional Moisture Convergence in a composite lifecycle of the Madden-Julian Oscillation, *Journal of Climate*, **11**, 2387-2403, 1998.

1999

Tashima D.H, and D.L. Hartmann, Regional Trends in Nimbus-7 OLR: Effects of a Spectrally Nonuniform Albedo, *Journal of Climate*, **12**, 1458-1466, 1999.

Larson, K., D.L. Hartmann, and S.A. Klein, On the Role of Clouds, Water Vapor, Circulation and Boundary Layer Structure on the Sensitivity of the Tropical Climate.. *Journal of Climate*, **12**, 2359-2374, 1999.

Limpasuvan, V., and D.L. Hartmann, Eddies and the Annular Modes of Climate Variability, *Geophys. Res.Lett.*, **26**, 3133-3136, 1999.

2000

Salathé, E.P., and D.L. Hartmann, Subsidence and Upper-Tropospheric Drying along Trajectories in a General Circulation Model. *Journal of Climate*, **13**, 257-263, 2000.

Hartmann, D.L., The key role of lower-level meridional shear in baroclinic wave lifecycles. *J. Atmos. Sci.*, **57**, 389-401, 2000.

Maloney, E. D. and D. L. Hartmann, Modulation of Eastern North Pacific Hurricanes by the Madden-Julian Oscillation. *J. Climate*, **13**, 1451-1460, 2000.

Limpasuvan, V., and D.L. Hartmann, Wave-maintained annular modes of climate variability, *J. Climate*, **13**, 4414-4429, 2000.

Hartmann, D. L., J. M. Wallace, V. Limpasuvan, D. W. J. Thompson and J. R. Holton, Can Ozone Depletion and Global Warming Interact to Produce Rapid Climate Change? *Proc. Nat. Acad. Sci.*, **97**, 1412-1417, 2000.

Maloney, E. D. and D. L. Hartmann, Modulation of Hurricane Activity in the Gulf of Mexico by the Madden-Julian Oscillation. *Science*, **287**, 2002-2004, 2000.

2001

Maloney, E. D. and D. L. Hartmann, The sensitivity of intraseasonal variability in the NCAR CCM3 to changes in convective parameterization. *J. Climate*, **14**, 2015-2034, 2001.

Maloney, E. D. and D. L. Hartmann, The Madden-Julian Oscillation, barotropic dynamics, and North Pacific tropical cyclone formation. Part I: Observations *J. Atmos. Sci.*, **58**, 2545-2558, 2001

Hartmann, D.L. and E. D. Maloney, The Madden-Julian Oscillation, barotropic dynamics, and North Pacific tropical cyclone formation. Part II: Stochastic Barotropic Modeling *J. Atmos. Sci.*, **58**, 2559-2570, 2001.

Hartmann, D.L., L.A. Moy, and Q. Fu, Tropical Convection and the Energy Balance at the Top of the Atmosphere. *J. Climate*, **14**, 4495-4511, 2001.

Hartmann, D.L., J.R. Holton, and Q. Fu, The heat balance of the tropical tropopause, cirrus and stratospheric dehydration. *Geophys. Res. Lett.* **28**, 1969-1972, 2001.

Lorenz, D. J. and D. L. Hartmann, Eddy-Zonal Flow Feedback in the Southern Hemisphere. *J. Atmos. Sci.*, **58**, 3312-3327, 2001.

2002

Fu, Q., M. Baker and D.L. Hartmann, Tropical Cirrus and Water Vapor: An Effective Infrared Iris? *Atmospheric Physics and Chemistry*, **2**, 31-37, 2002

Hartmann, D.L., and M.L. Michelsen, No Evidence for Iris, *Bull. Amer. Meteor. Soc.* **83**, 249-254, 2002.

Hartmann, D. L., Tropical Surprises, *Science*, **295**, 811-812. , 2002

Hartmann, D. L., L. A. Moy and Q. Fu, Reply to Comments on "Tropical Convection and the Energy Balance at the Top of the Atmosphere" by M.-D. Chou and R.S. Lindzen. *J. Climate*, **15**, 2571-2572, 2002.

Wood, R., C.S. Bretherton and D.L. Hartmann, Diurnal cycle of liquid water path over the tropical and subtropical oceans, *Geophys. Res. Lett.*, **29**(23), 7:1-4, 2002.

Hartmann, D. L. and K. Larson, An Important Constraint on Tropical Cloud-Climate Feedback. *Geophys. Res. Lett.*, **29**(20), 1951-4, 2002.

2003

Lorenz, D. J. and D. L. Hartmann, Eddy-Zonal Flow Feedback in the Northern Hemisphere winter, . *J. Climate*, **16**, 1212-1227, 2003.

Larson, K. and D. L. Hartmann, Interactions among Cloud, Water Vapor, Radiation and Large-scale Circulation in the Tropical Climate, Part 1: Sensitivity to uniform Sea Surface Temperature changes. *J. Climate*, **16**, 1425-1440, 2003.

Larson, K. and D. L. Hartmann,, Interactions among Cloud, Water Vapor, Radiation and Large-scale Circulation in the Tropical Climate, Part 2: Sensitivity to spatial gradients of Sea Surface Temperature. *J. Climate*, **16**, 1441-1455, 2003.

2004

- Bielli, S. and D. L. Hartmann, Lagged Maximum Covariance Analysis of the Summertime MJO in the Eastern Pacific. *J. Climate*, **17**, 4080-4088, 2004..
- Limpasuvan, V., D.W.J. Thompson, and D.L. Hartmann, On the Life Cycle of Northern Hemisphere Stratosphere Sudden Warming, *J. Climate*, **13**, 2584-2596, 2004

2005

- Kraucunas, I. P. and D. L. Hartmann: Equatorial superrotation and the factors controlling the zonal-mean zonal winds in the tropics. *J. Atmos. Sci.*, **62**, 371-389, 2005.
- Taguchi, M. and D. L. Hartmann, Interference of Extratropical Surface Climate Anomalies Induced by El Niño and Stratospheric Sudden Warmings, *Geophys. Res. Lett.*, L04709, doi:10.1029/2004GL022004, 2005
- Eichelberger, S.J., and D. L. Hartmann, Changes in the strength of the Brewer-Dobson Circulation in a simple AGCM. *Geophys. Res. Lett.*, VOL. 32, L15807, doi:10.1029/2005GL022924, 2005
- Limpasuvan, V., D. L. Hartmann, D. W. J. Thompson, K. Jeev, and Y. L. Yung, 2005: Stratosphere-troposphere evolution during polar vortex intensification. *J. Geophys. Res.-Atmospheres*, **110**, doi:10.1029/2005JD006302.
- Limpasuvan, V., D. W. J. Thompson, and D. L. Hartmann, 2005: The life cycle of the Northern Hemisphere sudden stratospheric warmings - Reply. *J. Climate*, **18**, 2778-2780.

2006

- Lorenz, D. J. and D. L. Hartmann: The effect of the MJO on the North American Monsoon. *J. Climate*, **19**, 333-343.
- Taguchi, M. and D. L. Hartmann, 2006: Change in Occurrence Frequency of Stratospheric Sudden Warmings with ENSO-like SST Forcing as Simulated WACCM. *J. Climate*, **19**, 324-332.
- Wood, R. and D. L. Hartmann: Spatial variability of liquid water path in marine low cloud: The importance of mesoscale cellular convection, *J. Climate*, **19**, 1748-1764.

2007

- Eichelberger, S.J. and D.L. Hartmann, Zonal Jet Structure and the leading Mode of Variability, *J. Climate*, **20**, 5149-5163.
- Hartmann, D. L., 2007: The General Circulation of the Atmosphere and its Variability, *J. Meteor. Soc. Japan*, 85B, 123-143.
- Jiang, X., S. J. Eichelberger, D. L. Hartmann, and Y. L. Yung, 2007: Influence of doubled CO₂ on ozone via changes in the Brewer-Dobson Circulation. *J. Atmos. Sci.*, **64**, 2751-2755.
- Kraucunas, I. and D.L. Hartmann, Tropical Stationary Waves in a Nonlinear Shallow Water Model with Realistic Basic States. *J. Atmos. Sci.*, **64**, 2540-2557.
- Kuang, Z. and D.L. Hartmann, Testing the FAT Hypothesis in a Cloud-Resolving Model. *J. Climate*, **20**, 2051-2057.
- Kubar, T.L., D.L. Hartmann and R. Wood, Radiative and Convective Driving of Tropical High Clouds, *J. Climate*, **20**, 5510-5526.
- Garfinkel, C. I. and D. L. Hartmann, 2007: The Effects of the Quasi-Biennial Oscillation and the El-Niño Southern Oscillation on polar temperatures in the stratosphere. *J. Geophys. Res.*,

112, D19112, doi:19110.11029/12007JD008481.

2008

- Kubar, T.L. and D.L. Hartmann, Vertical Structure of Tropical Convection and Precipitation, *Geophys. Res. Lett.*, doi:10.1029/2007GL032811.
- Yuan, J., D.L. Hartmann and R. Wood, 2008: Dynamic Effects on the Tropical Mean Cloud Radiative Forcing and Radiation Budget, *J. Climate*, **21**, 2337-2351.
- Yuan, J. and D. L. Hartmann, 2008: Spatial and temporal dependence of clouds and their radiative impacts on the large-scale vertical velocity profile. *J. Geophys. Res. Atmos.*, **113**.
- Garfinkel, C. I. and D. L. Hartmann, 2008: Different ENSO teleconnections and their effects on the stratospheric polar vortex. *J. Geophys. Res. Atmos.*, **113**.

2009

- Kubar, T. L., D. L. Hartmann, and R. Wood, 2009: Understanding the Importance of Microphysics and Macrophysics for Warm Rain in Marine Low Clouds. Part I: Satellite Observations. *J. Atmos. Sci.*, **66**, 2953-2972.
- Lopez, M., D. L. Hartmann, P. N. Blossey, R. Wood, C. S. Bretherton, and T. L. Kubar, 2009: A Test of the Simulation of Tropical Convective Cloudiness by a Cloud-Resolving Model. *J. Climate*, **22**, 2834-2849.
- Wood, R., T. L. Kubar, and D. L. Hartmann, 2009: Understanding the Importance of Microphysics and Macrophysics for Warm Rain in Marine Low Clouds. Part II: Heuristic Models of Rain Formation. *J. Atmos. Sci.*, **66**, 2973-2990.
- Zelinka, M. D. and D. L. Hartmann, 2009: Response of Humidity and Clouds to Tropical Deep Convection. *J. Climate*, **22**, 2389-2404.
- Bretherton, C. S., and D. L. Hartmann, 2009: Large-Scale Controls on Cloudiness. *Strüngmann Forum Report, Clouds in the Perturbed Climate System: Their Relationship to Energy Balance, Atmospheric Dynamics and Precipitation*, J. Heintzenberg, and R. J. Charlson, Eds., MIT Press, 217-234.

2010

- Barnes, E.A., and D.L. Hartmann, 2010d: Influence of eddy-driven jet latitude on North Atlantic jet persistence and blocking frequency in CMIP3 integrations. *Geophys. Res. Lett.* , 37, doi:10.1029/2010GL045700. PDF
- Garfinkel, C.I., Hartmann, D.L., 2010b: QBO's influence on the North Pacific and ENSO teleconnections. *J. Geophys. Res.* , 115, D20116, doi:10.1029/2010JD014181. PDF
- Zelinka, M.D., and D.L. Hartmann, 2010: Why is Longwave Cloud Feedback Positive? *J. Geophys. Res.* , 22, Vol. 115, D16117, doi:10.1029/2010JD013817. PDF
- Barnes, E.A., and D.L. Hartmann, 2010c: Testing a theory for the effect of latitude on the persistence of eddy-driven jets using CMIP3 simulations. *Geophys. Res. Lett.* , 22, doi:10.1029/2010GL044144. PDF
- Barnes, E.A., Hartmann, D.L., 2010b: Dynamical Feedbacks of the Southern Annular Mode in winter and summer. *J. Atmos. Sci.* , 67, 2320-2330. PDF

Barnes, E.A., D.L. Hartmann, D.M.W. Frierson and J. Kidston, 2010: The effect of latitude on the persistence of eddy-driven jets. *Geophys. Res. Lett.* , 27, L11804, , doi.10.1029/2010GL043199. PDF

Garfinkel, C.I., Hartmann, D.L. and Sassi, F., 2010a: Tropospheric Precursors of Anomalous Northern Hemisphere Stratospheric Polar Vortices. *J. Atmos. Sci.* ,23 3282-3299. PDF

Barnes, E.A., Hartmann, D.L., 2010a: Dynamical Feedbacks and the Persistence of the North Atlantic Oscillation. *J. Atmos. Sci.*, 67, 851-865. PDF

2011

Barnes, E.A., and D.L. Hartmann, 2011: Rossby Wave Scales, propagation and the variability of eddy-driven jets, *J. Atmos. Sci.* , 68, 2893-2908. PDF

Zelinka, M.D., and D.L. Hartmann, 2011b: The Observed Sensitivity of High Clouds to Mean Surface Temperature Anomalies in the Tropics. *J. Geophys. Res.* ,116 , doi:10.1029/2011JD016459 . PDF

Garfinkel, C.I., Hartmann, D.L., 2011b: The Influence of the Quasi-Biennial Oscillation on the Troposphere in Wintertime in a Hierarchy of Models, Part 2 Perpetual Winter WACCM runs. *J. Atmos. Sci.* ,68 2026-2041. PDF

Garfinkel, C.I., Hartmann, D.L., 2011a: The Influence of the Quasi-Biennial Oscillation on the Troposphere in Wintertime in a Hierarchy of Models, Part 1 - Simplified Dry Models. *J. Atmos. Sci.* 68, 1273-1289 . PDF

2012

Lin, P., Q. Fu and D.L. Hartmann, 2012: Impact of Tropical Sea Surface Temperatures on Southern Hemisphere Stratospheric Planetary Waves. *J. Climate* , 25 , 5030-5046. PDF

Barnes, E.A., and D.L. Hartmann, 2012b: Detection of Rossby wave breaking and its response to shifts of the midlatitude jet with climate change. *J. Geophys. Res.* 117 , doi:10.1029/2012JD017469. PDF

Garfinkel, C.I., T.A. Shaw, D.L. Hartmann and D.W. Waugh, 2012: Does the Holton-Tan Mechanisms Explain How the Quasi-Biennial Oscillation Modulates the Arctic Polar Vortex? *J. Atmos. Sci.* , 69, 1713-1733. PDF

Zelinka, M.D., S.A. Klein and D.L. Hartmann, 2011a: Computing and partitioning Clouds Feedbacks using Cloud property Histograms. Part I: Cloud Radiative kernels. *J. Climate* , 25, 3715-3735. PDF

Zelinka, M.D., S.A. Klein and D.L. Hartmann, 2012b: Computing and partitioning Clouds Feedbacks using Cloud property Histograms. Part II: Attribution to the Nature of Cloud Changes. *J. Climate* , 25, 3736-3754. PDF

Barnes, E.A., and D.L. Hartmann, 2012a: The Global Distribution of Atmospheric Eddy Length Scales, *J. Climate*, 25, 3409-3416, doi: 10.1175/JCLI-D-11-00331.1 . PDF

Pendergrass, A.G., and D.L. Hartmann, 2012: Global-mean precipitation and black carbon in AR4 simulations. *Geophys. Res. Lett.* , 39 , doi:10.1029/2011GL050067. PDF

Zelinka, M.D. and D.L. Hartmann, 2012: Climate Feedbacks and their Implications for Poleward Energy Flux Changes in a Warming Climate, *J. Climate* , 25, 608-624. PDF

Ceppi, P., Y.-T. Hwang, D. M. W. Frierson and D.L. Hartmann, 2012: Southern Hemisphere jet latitude biases in CMIP5 models linked to shortwave cloud forcing. *Geophys. Res. Lett.* , ,

doi:10.1029/2012GL053115. [PDF](#)

Harrop, B.E., and D.L. Hartmann, 2012: Testing the Role of Radiation in Determining Tropical Cloud Top Temperature. *J. Climate* , **25**, 5731-5747. [PDF](#)

2013

Ceppi, P., and D.L. Hartmann, 2013: On the Speed of the Eddy-Driven Jet and the Width of the Hadley Cell. *J. Climate* , **26**, 3450-3465. [PDF](#)

Ceppi, P, Y.T. Hwang, X. Liu, D.M.W. Frierson and D.L. Hartmann, 2013: The relationship between the ITCZ and the Southern Hemisphere eddy-driven jet. *JGR-Atmospheres, J. Geophys. Res. Atmos.* , **118**, 5136-5146, doi:10.1002/jgrd.50461. [PDF](#)

Hartmann, D. L., and Coauthors, 2013: Observations: Atmosphere and Surface. *The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* T. F. Stocker, and Coauthors, Eds., Cambridge University Press, 159-254.

2014

McCoy, Daniel T., Dennis L. Hartmann and Daniel P. Grosvenor, 2014: Observed Southern Ocean Cloud Properties and Shortwave Reflection Part 1: Calculation of SW flux from observed cloud properties. *J. Climate*, **27** , 8836-8857, doi:10.1175/JCLI-D-14-00287.1. [PDF](#)

McCoy, Daniel T., Dennis L. Hartmann and Daniel P. Grosvenor, 2014: Observed Southern Ocean Cloud Properties and Shortwave Reflection Part 2: Phase changes and low cloud feedback. *J. Climate*, **27** , 8858-8868, doi:10.1175/JCLI-D-14-00288.1. [PDF](#)

Pendergrass, A.G. and D.L. Hartmann, 2014: Two modes of change of the distribution of rain. *J. Climate* , **27**, 8357-8371, doi:10.1175/JCLI-D-14-00182.1. [PDF](#)

Pendergrass, A.G. and D.L. Hartmann, 2014: Changes in the distribution of rain frequency and intensity in response to global warming. *J. Climate* , **27** , 8372-8383, doi:10.1175/JCLI-D-14-00183.1. [PDF](#)

Ceppi, P, M.D. Zelinka and D.L. Hartmann, 2014: The Response of the Southern Hemispheric Eddy-Driven Jet to Future Changes in Shortwave Radiation in CMIP5. *Geophys. Res. Lett.*, **42**, 41, 3244-3250, doi:10.1002/2014GL060043. [PDF](#)

Hartmann, Dennis L. and Paulo Ceppi, 2014: Trends in the CERES Data Set 2000-2013: The Effects of Ice Melt and Jet Shifts and Comparison to Climate Models. *J. Climate* , **27**, doi:10.1175/JCLI-D-13-00411.1, 2444-2456. [PDF](#)

Bao, Ming, and Dennis L. Hartmann, 2014: The response to MJO-like forcing in a nonlinear shallow water model. *Geophys. Res. Lett.*, **41**, doi:10.1002/2013GL057683. [PDF](#)

Pendergrass, A.G. and D.L. Hartmann, 2014: The atmospheric energy constraint on global-mean precipitation, *J. Climate*, **27**, 757-768. [PDF](#)

2015

Wall, Casey J. and Dennis L. Hartmann, 2015: On the influence of poleward jet shift on Shortwave cloud feedback in GCMs , *JAMES* , , doi:10.1002/2015MS000520. [PDF](#)

McCoy, Daniel T. and Dennis L. Hartmann, 2015: Observations of a substantial cloud aerosol indirect effect during the 2014-15 Bardarbunga-Veidivotn eruption in Iceland *Geophys.*

- Res. Lett.* , , doi:10.1002/2015GL067070 . [Paper PDF](#) -- [Supplementary Material PDF](#)
- Harrop, Bryce E. and Dennis L. Hartmann, 2015: The relationship between atmospheric convective radiative effect and net energy transport in the tropical warm pool, *J. Climate* , **28**, doi: 10.1175/JCLI-D-15-0151.1, 8620-8633. [PDF](#)
- Fu, Q., P. Lin, S. Solomon and D.L. Hartmann, 2015: Observational Evidence of strengthening of the Brewer-Dobson circulation since 1980. *J. Geophys. Res. - Atmos.* , , doi: 10.1002/2015DJ023657. [PDF](#)
- McCoy, D.T., D.L. Hartmann, M.D. Zelinka, P. Ceppi and D.P. Grosvenor, 2015: Mixed-phase cloud physics and Southern Ocean cloud feedback in climate models. *J. Geophys. Res. Atmos.* , , doi: 10.1002/2015JD023603, 9539-9554. [PDF](#)
- McCoy, Daniel T., Susannah M. Burrows, Robert Wood, Daniel P. Grosvenor, Scott M. Elliott, Po-Lun Ma, Phillip J. Rasch and Dennis L. Hartmann, 2015: Natural aerosols explain seasonal and Spatial patterns of Southern Ocean Cloud albedo. *Science Advances* , doi 10.1126/scoadv.1500157. [PDF](#)
- Ceppi, Paulo, and Dennis L. Hartmann, 2015: Connections between clouds, radiation, and midlatitude dynamics: a review. *Current Climate Change Reports* , doi 10.1007/s4061-015-0010-x. [PDF](#)
- Hartmann, Dennis L., 2015: Pacific Sea Surface Temperature and the Winter of 2014. *Geophys. Res. Lett.* , , doi: 10.1002/2015GL063083. [Paper and Supplementary Materials in one pdf -- Formatted GRL Paper Only pdf](#)

2016

- Harrop, B.E. and D.L. Hartmann, 2016: The role of cloud heating within the atmosphere on the high cloud amount and top-of-atmosphere cloud radiative effect. *JAMES* , , doi:10.1002/2016Ms000670. [PDF](#)
- Hartmann, D.L., 2016: Tropical Anvil Clouds and Climate Sensitivity *Proc. Nat. Acad. Sci.* , , doi:10.1073/pnas.1610455113. [PDF](#)
- Ceppi, P., D.T. McCoy and D.L. Hartmann, 2016: Observational evidence of a negative shortwave cloud feedback in mid to high latitudes *Geophys. Res. Lett.* , , 43, 1331-1339, doi:10.1002/2015GL067499. [PDF Paper and Supplementary Materials PDF](#)
- McCoy, Daniel T., Ivy Tan, Dennis L. Hartmann, Mark D. Zelinka and Trude Storelvmo, 2016: On the relationships among cloud cover, mixed-phase partitioning and planetary albedo in GCMs. *JAMES* , **8**, doi:10.1002/2015MS000589. [PDF](#)
- Harrop, Bryce E. and Dennis L. Hartmann, 2016: The role of cloud radiative heating in determining the location of the ITCZ in aqua-planet simulations. *J. Climate* , **29**, 2741-2763. [PDF](#)
- Kohyama, Tsubasa, and Dennis L. Hartmann, 2016: Antarctic sea ice response to weather and climate modes of variability. *J. Climate* , **29** , doi:10.1175/JCLI-D-15-1301.1, 721-741. [PDF](#)
- Ceppi, P. and D.L. Hartmann, 2016: Clouds and the Atmospheric Circulation Response to Warming. *J. Climate* , **29** , doi:10.1175/JCLI-D-15-0394.1, 783-799. [PDF](#)
- Ceppi, P., D.L. Hartmann and M.J. Webb, 2016: Mechanisms of the negative shortwave cloud feedback in mid to high latitudes. *J. Climate* , **29** , doi:10.1175/JCLI-D-15-0327-1, 139-157. [PDF](#)

2017

- Wall, Casey J., Dennis L. Hartmann and Po-Lun Ma, 2017: Instantaneous linkages between clouds and large-scale meteorology over the Southern Ocean in observations and a climate model. *J. Climate.* , 30, 9455-9474. [PDF](#)
- Wall, C.J., T. Kohyama and D.L. Hartmann, 2017: Observed low cloud occurrence and boundary layer structure near the wintertime Southern Ocean sea ice margin and implications for sea ice growth. *J. Climate* , 30, 4857-4871. [PDF](#)
- McCoy, D.T., Dennis L. Hartmann and Mark D. Zelinka, 2017: Mixed-Phase Cloud Feedbacks. *Chapter 9 in, Mixed-Phase Clouds*, Elsevier , 300pp. [PDF](#)
- Bao, Ming, Xin Tan, Dennis L. Hartmann and Paulo Ceppi, 2017: Classifying the Tropospheric Precursor Patterns of Sudden Stratospheric Warmings. *Geophys. Res. Lett.* , , doi:10.1002/2017GLO74611. [PDF](#)
- Hartmann, D.L. and Sara E. Berry, 2017: The Balanced Radiative Effect of Tropical Anvil Clouds, *J. Geophys. Res. Atmos.* , doi:10.1002/2017JD026460. [PDF](#)
- McCoy, Daniel T., Ryan Eastman, Dennis L. Hartmann and Robert Wood, 2017: The Change in Low Cloud Cover in a Warmed Climate Inferred from AIRS, MODIS and ERA-Interim. *J. Climate*, 30, 3609-3620. [PDF](#)
- Ceppi, P., F. Brient, M.D. Zelinka and D.L. Hartmann, 2017: Cloud feedback mechanisms and their representation in global climate models. *WIREs Climate Change*, e465. , doi:10.1002/wcc.465. [PDF](#)
- Kohyama, T., and D.L. Hartmann, 2017: Nonlinear ENSO Warming Suppression (NEWS). *J. Climate*, 30, 4227-4251. [PDF](#)
- Kohyama, T., D.L. Hartmann and D.S. Battisti, 2017: La Nina-like mean-state response to global warming and potential oceanic roles. *J. Climate*, 30, 4207-4225. [PDF](#)
- McCoy, Daniel T., F.A.-M. Bender, J.K.C. Mohrmann, D.L. Hartmann, R. Wood and D.P. Grosvenor, 2017: The global aerosol-cloud first indirect effect estimated using MODIS, MERRA and AeroCom, *J. Geophys. Res. Atmos.* , , doi:10.1002/2016JD026141. [PDF](#)

2018

- Wills, R.C.J, K.C. Armour, D.S. Battisti and D.L. Hartmann, 2019: Ocean-atmosphere dynamical coupling fundamental to the Atlantic Multidecadal Oscillation. *J. Climate* , 32, 251-272, doi:10.1175/JCLI-D-18-0269.1. [PDF](#)
- Hartmann, D.L., Blaz Gasparini, Sara E. Berry and Peter N. Blossey, 2018: The Life Cycle and Net Radiative Effect of Tropical Anvil Clouds. *J. Adv. Mod. Earth Sys.* , 10 ,3012-3029, doi.org/10.1929/2018MS001484. [PDF](#)
- Hilgenbrink, C.C. and D.L. Hartmann, 2018: The Response of the Hadley Circulation Extent to an Idealized Representation of Poleward Ocean Heat Transport in an Aquaplanet GCM, *J. Climate* , , 31 , 9753-9770, doi:/10.1187/JCLI-D-18-0324.1. [PDF](#)
- Wall, C.J. and D.L. Hartmann, 2018: Balanced cloud radiative effects across a range of dynamical conditions over the tropical west Pacific. *Geophys. Res. Lett.* , , doi:10.1029/2018GL080046. [PDF](#)
- Wall, C.J., D.L. Hartmann, M.M. Thieman, W.L. Smith Jr. and P. Minnis, 2018: The lifecycle of anvil clouds and the top-of-atmosphere radiation balance over the tropical west Pacific. *J. Climate.* , 31 , 10059-10080, doi:10.1175/C+JCLI-D-18-0154.1submitted. [PDF](#)

- Kohyama, Tsubasa, Dennis L. Hartmann and David S. Battisti, 2018: Weakening of Nonlinear ENSO under Global Warming. *Geophys. Res. Lett.* , <https://doi.org/10.1029/2018GL07h9085>. [PDF](#)
- McCoy, D.T., Frida A.-M. Bender, Daniel P. Grosvenor, Johannes K. Mohrmann, Dennis L. Hartmann, Robert Wood, and Paul R. Field, 2018: Predicting decadal trends in cloud droplet number concentration using reanalysis and satellite data. *Atmos. Chem. Phys.* , doi.org/10.5194/acp-18-2035-2018. [ACP PDF](#)
- Wills, R.C., T. Schneider, J.M. Wallace, D.S. Battisti and D.L. Hartmann, 2018: Disentangling global warming, multi-decadal variability, and El Nino in Pacific temperatures. *Geophys. Res. Lett.*, 30, DOI: 10.1002/2017GL076327. [PDF](#)

2019

- Wall, C.J., D. L. Hartmann and J.R. Norris , 2019: Are cloud radiative effects constrained to cancel over the tropical warm pools? *Geophys. Res. Lett.* , , [doi:10.1029/2019GL083642](https://doi.org/10.1029/2019GL083642). [PDF](#) , [Supporting Information PDF](#)
- Gasparini, B., P.N. Blossey, D.L. Hartmann, G. Lin and J. Fan, 2019: What drives the lifecycle of tropical anvil clouds? *JAMES* , , [doi:10.1029/2019MS001736](https://doi.org/10.1029/2019MS001736). [PDF](#)
- Hartmann, D.L, Peter N. Blossey and Brittany D. Dygert, 2019: Convection and Climate: What Have We Learned from Simple Models and Simplified Settings? *Current Climate Change Reports* , [doi:10.1007/s40641-019-00136-9](https://doi.org/10.1007/s40641-019-00136-9). . . . [Read only link of published paper](#)
- Wills, R.C.J, D.S. Battisti, C. Proistosescu, L. Thompson, D.L. Hartmann and K.C. Armour, 2019: Ocean Circulation Signatures of North Pacific Decadal Variability. *Geophys. Res. Lett.* , , [doi:10.1029/2018GL080716](https://doi.org/10.1029/2018GL080716). [PDF](#) . . . [PDF Supplemental Information](#)
- Wills, R.C.J, K.C. Armour, D.S. Battisti and D.L. Hartmann, 2019: Ocean-atmosphere dynamical coupling fundamental to the Atlantic Multidecadal Oscillation. *J. Climate* , 32, 251-272, [doi:10.1175/JCLI-D-18-0269.1](https://doi.org/10.1175/JCLI-D-18-0269.1). [PDF](#)

2020

- Sokol, A.B., D.L.Hartmann, 2020: Tropical Anvil Clouds: Radiative Driving Towards a Preferred State *J. Geophys. Res. Atmos.*, , , [doi:10.1029/2020JD033107](https://doi.org/10.1029/2020JD033107). [PDF Paper](#), [PDF Supporting Information](#)

2021

- Gasparini, B., P.J. Rasch, D.L.Hartmann and C.J. Wall, 2021: A Lagrangian Perspective on Tropical Anvil Cloud Lifecycle in Present and Future Climate, *J. Geophys. Res. Atmos* doi: [10.1029/2020JD033487](https://doi.org/10.1029/2020JD033487).
- Gasparini, B., Adam B. Sokol, C.J. Wall, D.L. Hartmann and P.N. Blossey, 2021: Diurnal differences in tropical maritime anvil cloud evolution. *J. Climate* , , <https://doi.org/10.1175/JCLI-D-21-0211.1>. [PDF Paper](#)

2022

- Sokol, A.B. and D.L. Hartmann, 2021: Radiative cooling, latent heating and cloud ice in the tropical upper troposphere. *J. Climate* , , <https://doi.org/10.1175/CLI-D-21-0444.1> . [PDF Paper](#)

- A.B. Sokol and D.L.Hartmann, 2022: Congestus mode invigoration by convective aggregation in simulations of radiative-convective equilibrium. *J. Adv. Model. Earth. Sys.* , , <https://doi.org/10.1029/2022MS003045> . [PDF Paper](#)
- D.L.Hartmann, B.D. Dygert, P.N. Blossey, Q. Fu and A.B. Sokol, 2022: The Vertical Profile of Radiative Cooling and Lapse Rate in a Warming Climate, *J. Climate* , ,doi:10.1175/JCLI-D-21-0861.1 [PDF Paper](#)
- Hartmann, D.L. and B.D. Dygert, 2022: Global Radiative Convective Equilibrium with a Slab Ocean: SST Contrast, Sensitivity and Circulation *J. Geophys. Res. Atmos.* , **127**, <https://doi.org/10.1029/2021JD036400>. [PDF](#)
- D.L.Hartmann, 2022: The Antarctic ozone hole and the pattern effect on climate sensitivity. *Proc. Nat. Acad. Sci.* **119**, , doi:10.1073/pnas.2207889119. [PDF](#)

2023

- B.D. Dygert and D.L.Hartmann, 2022: The cycle of large-scale aggregation in tropical radiative-convective equilibrium. *J. Geophys. Res. Atmos.* , **128** , doi:10.1029/2022JD037302 . [PDF Paper](#)

2024

- A.B. Sokol, C.J. Wall, and D.L. Hartmann, 2024: Greater climate sensitivity implied by anvil cloud thinning. *Nature Climate Change*, , **17** , <https://doi.org/10.1038/s41561-024-01420-6> . [PDF Paper](#) . . [PDF Supplementary Info](#)

2025

- Dygert, B.D. and Dennis L. Hartmann, 2025: Effects of Ocean Heat Transport in Tropical Radiative Convective Equilibrium *Journal of Geophysical Research: Atmospheres* *Advances in Modeling Earth Systems*, , vol 130, doi 10.1029/2024JD043194 . [PDF Paper](#) .
- A.B. Sokol, Vlad A. Munteanu, Peter N. Blossey and Dennis L. Hartmann, 2025: Internal Ocean-Atmosphere Variability in Kilometer-Scale Radiative_Convective Equilibrium *Journal of Advances in Modeling Earth Systems*, , vol , doi 10.1029/2024MS004567 . [PDF Paper](#) .

In Press or in review