

*CURRICULUM VITAE*  
**GRAHAM FEINGOLD**

**Address:**

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**Education:**

- 1986 – 1989: Ph.D – Geophysics (*summa cum laude*),  
Department of Geophysics and Planetary Sciences,  
Tel Aviv University.  
Thesis: On the evolution of raindrop spectra and their  
effect on the atmosphere below cloud base:  
numerical models and comparisons with observations.  
Advisor: Prof. Zev Levin.
- 1983 – 1985: M.Sc – Geophysics (*summa cum laude*),  
Department of Geophysics and Planetary Sciences,  
Tel Aviv University.  
Thesis: The size distribution of raindrops in Israel:  
application to rainfall processes and radar measurements.  
Advisor: Prof. Zev Levin.
- 1980 – 1982: B.Sc – Geophysics and Atmospheric Sciences,  
Department of Geophysics and Atmospheric Sciences,  
Tel Aviv University.
- 1978: B.Sc – Mechanical Engineering (1<sup>st</sup> year),  
Faculty of Engineering,  
University of the Witwatersrand, Johannesburg, South Africa.

**Research Experience:**

- 2005 – Present: Physicist, Chemical Sciences Laboratory,  
NOAA Earth System Research Laboratories,  
Boulder, Colorado.
- 2023 – Present: Affiliate Faculty, Department of Atmospheric Science,  
Colorado State University, Fort Collins.
- 2000 – 2005: Physicist, Optical Remote Sensing Division,  
NOAA Environmental Technology Laboratory,  
Boulder, Colorado.
- 2000 – 2003: Affiliate Faculty, Department of Atmospheric Science,

1997 – 2000: Colorado State University, Fort Collins.  
 Research Scientist, CIRA,  
 (Cooperative agreement with NOAA Environmental Technology  
 Laboratory)

1994 – 1997: Colorado State University, Fort Collins.  
 Research Associate, CIRA.

1991 – 1994: Research Associate, CIRES,  
 (Cooperative agreement with NOAA Environmental Technology  
 Laboratory)

1993 – 1994: University of Colorado, Boulder.  
 Affiliate Faculty, Department of Atmospheric Science  
 Colorado State University, Fort Collins.

1990 – 1991: Post-doctoral fellow at  
 Mesoscale and Microscale Meteorology Division, NCAR.

1983 – 1989: Research assistant, Cloud Physics Laboratory,  
 Department of Geophysics and Planetary Sciences,  
 Tel Aviv University.

**Teaching Experience:**

2008: Distinguished Lecturer,  
 Peking University, December 2008.  
 (Aerosol-Cloud Interactions and Climate Change)

2008: Lecturer,  
 International Summer School on Atmospheric and Oceanic  
 Sciences, L'Aquila, Italy, September 2008.  
 (Aerosols and Climate Change)

2006: Guest Lecturer,  
 Department of Geophysics and Planetary Sciences,  
 Tel Aviv University.  
 Selected Topics in Aerosol-Cloud Interactions (Gordon Center for  
 Energy; 2 credit course)

1986 – 1989: Teaching assistant,  
 Department of Geophysics and Planetary Sciences,  
 Tel Aviv University.  
 Tutor: An Introduction to Atmospheric Physics  
 Tutor: The Physics of Clouds and Precipitation

**Field Work:**

2020: Atlantic Tradewind Ocean–Atmosphere Mesoscale Interaction  
 Campaign (ATOMIC), Barbados

2010: Barbados Cumulus Experiment (BACEX), Barbados

2009: RACORO, Jan - Jun, Oklahoma

2008: VOCALS, Chile

2007: MASE-II, Marina, CA

2006: GoMACCS, Houston, TX

2004: ICARTT, New England  
 2003: DOE/ARM Aerosol IOP, OK  
 2001: DYCOMS-II, San Diego, CA  
 1999: Southern Oxidants Study, Nashville, TN

**Other Professional Activities:**

2022 Chair NOAA & DOE/ARM Marine Cloud Brightening Workshop  
 2022 Michigan Tech/Brookhaven Cloud Chamber (ACDC2) Advisory Committee  
 2019 – Ruisdael Advisory Committee (Netherlands)  
 2018 – 2021 NASA Aerosol-Cloud-Convection-and-Precipitation (A-CCP) Scientific Community Cohort (SCC) Advisory Group  
 2016 – 2021: DOE/EBSD Directorate Advisory Committee (PNNL)  
 2014: Co-Chair DOE/ASR High Resolution Modeling Workshop  
 2011 – 2013: Lead Author, Chapter 7, IPCC Fifth Assessment Report  
 2007 – 2011: Chair, Aerosol Climate Initiative Advisory Committee, DOE/PNNL  
 2008 – 2013: IGAC Scientific Steering Committee  
 2008 – Present: ACPC Scientific Steering Committee  
 2007 – 2012: NOAA Representative to EarthCare  
 2006: Reviewer IPCC Fourth Assessment Report  
 2005, 2007, 2010: AGU Special Session Convener  
 2011 Session Convenor IUGG (Melbourne)  
 2004 – 2008: Chapter author International Aerosol-Precipitation Science Assessment Group (IAPSAG)  
 2004 – 2009: Climate Change Science Program Assessment  
 2004 – 2012: International Commission on Clouds and Precipitation (ICCP) Committee Member  
 2003 – Present: Editor Atmospheric Chemistry and Physics  
 2006 – 2020: CIRA Fellow  
 2003 – Present: CIRES Fellow  
 2001 – 2005: Member: NOAA/ETL Strategic Planning Team  
 2000: Reviewer IPCC Third Assessment Report  
 2000: Member: NOAA/ETL Millenium Team  
 1993 – Present: Member American Meteorological Society  
 1994 – Present: Member American Geophysical Union  
 1984 – 1990: Member Israel Association for Aerosol Research

**Awards and Fellowships:**

2022: NOAA Bronze Medal “*For scientific achievement in the design and implementation of the complex Atlantic Trade-wind Ocean-atmosphere Mesoscale Interaction Campaign*”  
 2022: Long-term visitor, Kavli Institute, Santa Barbara  
 2018: Wageningen Institute for Environment and Climate Research (WIMEK) Visiting Fellowship, Netherlands  
 2014: NOAA Administrator’s Award  
 2013: AGU Fellow

2008:	NOAA Administrator's Award
2003:	NOAA Office of Atmospheric Research Outstanding Paper Award
2002:	NOAA Office of Atmospheric Research Outstanding Paper Award
1998:	NOAA Environmental Technology Laboratory Award for Innovative Research in the Modeling of Complex Cloud and Aerosol Interactions
1990:	Rothschild Fellowship for Post-Doctoral Research Fulbright Fellowship for Post-Doctoral Research Canadian NSERC Fellowship for Post-Doctoral Research (declined)
1986 – 1989:	Fellowship from the Joseph Buchmann Fund
1987:	Landau Prize for Outstanding Research (Israel) Deutsche Akademischer Austauschdienst (DAAD) scholarship
1982 – 1985:	Certificates of Merit for academic achievement, Faculty of Exact Sciences, Tel Aviv University
1978 – 1979:	Undergraduate Scholarship, South African Council For Scientific and Industrial Research (CSIR)

**First Author Invited Talks (not including seminars):**

- Feingold, G., F.Hoffmann, and F. Glassmeier, 2023: *On our Ability to Infer Process-level Understanding from Snapshots of Atmospheric Fields*. Batsheva de Rothschild Seminar on Cloud-Climate Interactions across Scales, Feb 27 - Mar 2, Eilat, 2023.
- Feingold, G., F. Glassmeier, F.Hoffmann, I. Koren, 2022: *Top-Down vs. Bottom-up Approaches to the Study of Complex Systems*. Kavli Institute for Theoretical Physics, Santa Barbara, Oct. 2022.
- Feingold, G., F.Hoffmann, P. Prabhakaran, J. Zhang, X.Zhou, F. Glassmeier, I. Koren, 2022: *Influence of the duration of aerosol perturbation on the organization of stratocumulus: Large Eddy Simulation and heuristic dynamical modeling*, 2nd Workshop on Cloud Organization (WCO2), Utrecht, May 2022
- Feingold, G., T. Yamaguchi, P. Narenpitak, and J. Kazil, 2021: *Cloud field organization in trade-wind cumulus is intimately tied to precipitation efficiency*, AGU, Dec 2021.
- Feingold, G., F. Hoffmann, and F. Glassmeier, 2021: *Emerging approaches to assessing aerosol-cloud interactions in warm marine boundary layer clouds*, AGU, Dec 2021.
- Feingold, G., T. Yamaguchi, P. Narenpitak, and J. Kazil, 2021: *Cloud field organisation in trade-wind cumulus: a consequence of precipitation efficiency*, Workshop on Spatial Organisation of Convection, Clouds and Precipitation (WCO1), Copenhagen, May 2021.
- Feingold, G., F. Glassmeier, F. Hoffmann, and T. Yamaguchi, 2021: *Aerosol Effects on Warm Complex Cloud Systems*, American Meteorological Society Annual Meeting, January 2021.
- Feingold, G., and F. Hoffmann, 2019, *Aerosol-cloud interactions: outstanding questions and how they might be addressed in a new cloud chamber facility*. Workshop to Explore Science Opportunities and Concepts for a Large-Scale Aerosol-Cloud-Turbulence Research Facility, NCAR November 21-22, 2019.
- Feingold, G., 2019, *Top-down and bottom-up approaches to the complex atmospheric system*. Keynote speaker, Gordon Research Seminar, Radiation and Climate, July, 2019.

- Feingold, G., 2017 *What process-level understanding of Aerosol-Cloud Interactions has taught us about the potential for successful Marine Cloud Brightening*, Gordon Conference on Clouds and Radiation, Newry, ME, July 2017.
- Feingold, G., 2017: *Aerosol, Clouds, Precipitation, and Radiation at the Mesoscale*. GEWEX Aerosol Precipitation (GAP) initiative Workshop 2017, June 2017.
- Feingold, G., 2016: *Do aerosol particles affect clouds?* Honrath Memorial Lecture, Houghton, Michigan, September 2016.
- Feingold, G., and I. Koren: *Aerosol Effects on Marine Boundary Layer Cloud Systems: From Microphysics to Emergence*. Invited presentation Kaufman Memorial Symposium, June 2016.
- Feingold, G., *Quantifying Aerosol Influences on the Cloud Radiative Effect*. NASA Goddard Scientific Colloquium, May 2015.
- Feingold, G., *Thoughts on Approaches to Quantification of Aerosol Indirect Effects in Warm Clouds*, Keynote talk, Waves to Weather, Memmingen, Germany, November 2015.
- Feingold, G., Discussion Leader: *Cloud-Scale Processes*, Gordon Conference on Radiation and Climate, Lewiston, ME, 2015.
- Feingold, G., *Thoughts on new approaches to quantification of aerosol indirect effects in warm clouds*, Sackler Colloquia, Irvine, CA, 2015.
- Feingold, G., *Dynamical System Analogues to Cloud Systems*, Midwest Mathematics and Climate Conference, University of Kansas, April 2015.
- Feingold, G., *Aerosol influences on warm cloud precipitation and why it is so difficult to provide observational constraints*, Telluride Science Research Center workshop, 2014.
- Feingold, G., *Panelist: GEWEX Conference*, Den Haag, Netherlands, 2014.
- Feingold, G., *From Droplet Nucleation to Precipitation: Following in Sean Twomey's Giant Footsteps*. AMS Cloud Physics Conference, July 2014.
- Feingold, G., and I. Koren, *Keynote: Low-Dimensional Models of Complex Aerosol-Cloud Interactions*. Goldschmidt Conference, Florence, Italy, 2013.
- Feingold, G., *How Resilient are Cloud Systems to Aerosol Perturbations?* 19th International Conference on Nucleation and Atmospheric Aerosols, 24-28 June 2013, Fort Collins, CO 2013.
- Feingold, G., and I. Koren, *Old and new paradigms for aerosol-cloud-precipitation studies*, Keynote, DOE/ASR Science Team Meeting, March 2012.
- Feingold, G., and I. Koren, *Pattern Formation in the Aerosol-Cloud-Precipitation System*, Dynamics Days, Oldenburg, Germany, September 2011.
- Feingold, G. and I. Koren, *The Aerosol-Cloud-Precipitation System: In Search of Simplicity*, Gordon Conference on Clouds and Radiation, Colby College, NH, July 2011.
- Feingold, G., *Precipitation-generated oscillations in open-cellular cloud fields*, Max-Planck Institute, Hamburg, 2010.
- Feingold, G., *Self Organization in Cloud Systems*, University of California, Berkeley 2010.
- Feingold, G., *Life beyond 1st, 2nd... Indirect Effects: New paradigms for studying aerosol-cloud interactions*, Telluride workshop, 2010.
- Feingold, G., and H. Wang, *Self organization in a bowl of soup*. Goldschmidt Conference, Davos Switzerland, June 2009.

- Feingold, G., *Summary of the ARM Mobile Facility Deployment at Pt Reyes, California*. ARM Science Team Meeting, Louisville, KY, April 2009.
- Feingold, G., Keynote speaker, *The Importance of Small Cumulus Clouds in the Climate System*. International Laser Radar Conference. June, 2008.
- Feingold, G., Invited participant, *Perturbed Clouds in the Climate System*. Frankfurt Institute for Advanced Studies. March 2-7, 2008.
- Feingold, G., Invited speaker Aerosol Indirect Effects Workshop, Victoria, BC, Nov. 13-14, 2007.
- Feingold, G., Invited speaker Gordon Conference on Radiation and Climate. Colby-Sawyer College, July 2007.
- Feingold, G., H. Jiang, H. Xue, B. Stevens, P. Zuidema, 2007: *Aerosol Effects on Precipitation and Cloud Lifetime at the Large Eddy Scale*. Interdisciplinary Tropospheric Research (INTROP): Aerosols- properties, processes, and climate. Crete, April 2007.
- Feingold, G., Discussion Leader: Aerosol and Clouds Session. Gordon Conference on Chemistry, Big Sky, Montana, 2005.
- Feingold G., and H. Jiang, 2005: *Aerosol-cloud-radiation and surface flux interactions simulated in a large eddy model*. 1st iLEAPS Science Conference, Boulder, Colorado, Jan 2006.
- Feingold, G., 2005: *Aerosols, Clouds and Climate*. NASA Goddard Space Flight Center's Distinguished Lecture series. June 2005.
- Feingold, G., 2005: *Small-scale modeling of aerosol-cloud interactions*. NOAA/IGAC Specialty Workshop on the Aerosol Indirect effect. Manchester, UK., January 5-7, 2005.
- Feingold, G., 2003: *Surface-based remote sensing and modeling of the aerosol indirect effect*. Sixth International Symposium on Tropospheric Profiling, Leipzig, September 2003.
- Feingold, G., 2003: *Observations and Modeling of Aerosol-Cloud Interactions at the Large Eddy Scale*. European Geophysical Society/American Geophysical Union Meeting, Nice, April 2003.
- Feingold, G., S. M. Kreidenweis, H. Jiang, and W. R. Cotton, 2002: *Large Eddy Simulations of Aerosol-Cloud-Chemistry Interactions*. American Geophysical Union Fall Meeting, December 2002.
- Feingold, G., 2002: *Modeling the Indirect Effect in Large Eddy Simulations*. Round Table on Boundary Layer Clouds, Toulouse, June 2002.
- Feingold, G., 2001: *Aerosol-Cloud-Climate Feedbacks*. Invited presentation to National Research Council's NRC Climate Change Feedbacks Workshop. Boulder, Colorado, August 2001.
- Feingold, G., 2000: *Cloud-scale modeling of aerosol-cloud interactions*. Presented at the 4th Workshop on the Regional Aerosol Climate Model, Toronto, Canada, March 2000.
- Feingold, G., 1999: *A review of cloud processing of aerosol in the marine boundary layer*. Gentner Symposium, Israel, October 1999.
- Kreidenweis S. M., and G. Feingold, 1995: *Modeling of Aerosol and Cloud Microphysical Processes*. Tutorial presented at the Annual Meeting of the American Association for Aerosol Research, October 1995.

## Thesis Reader/Ph.D Committee member:

Jennifer Small (UC Santa Cruz), Patrick McBride (CU Boulder), David Painemal (U. of Miami), Seoung-Soo Lee (Princeton), Sam LeBlanc (CU Boulder), Adriana Bailey (CU Boulder), Shi Song (CU Boulder), Camilla Weum Stjern (University of Oslo), Eduardo Barbaro (Wageningen University), Leehi Magaritz (Hebrew University), Sylwester Arabas (University of Warsaw), Fabian Hoffmann (University of Hannover), Brent McBride (University of Maryland, Baltimore County), Clare Singer (CalTech), Martin Janssens (Wageningen University), Michelle Kanipe (Colorado State University)

## Refereed Publications:

### Submitted/In Preparation/In Review:

Diamond, M. S., J. J. Gristey, and G. Feingold, 2024: Earth's observed hemispheric albedo symmetry by cloud type: Climatology, trends, and tests of cloud adjustment hypotheses. *Geophys. Res. Lett.*, submitted.

Kazil, J., P. Narenpitak, T. Yamaguchi, and G. Feingold, 2024: Organized trade cumulus clouds suppressed by climate change. *J. Adv. Model. Earth Syst.*, submitted.

Gristey, J. J., G. Feingold, W. Angevine, and Y. Chen, 2024: Large Eddy Simulation of Shallow Cumulus Clouds in the Southern Great Plains with an Interactive Land Surface Model. *J. Adv. Model. Earth Syst.*, submitted.

### Published/Accepted:

Feingold, G., V. Ghate, L. M. Russell, P. Blossey, W. Cantrell, M. W. Christensen, M. S. Diamond, A. Gettelman, F. Glassmeier, E. Gryspeerdt, J. Haywood, F. Hoffmann, C. M. Kaul, M. Lebsock, A. C. McComiskey, D. T. McCoy, Y. Ming, J. Mülmenstädt, A. Possner, P. Prabhakaran, P. K. Quinn, K. S. Schmidt, R. A. Shaw, C. E. Singer, A. Sorooshian, V. Toll, J. S. Wan, R. Wood, F. Yang, J. Zhang, and X. Zheng, 2024: Physical Science Research needed to evaluate the viability and risks of Marine Cloud Brightening. *Science Advances*, 10, DOI: 10.1126/sciadv.adi8594.

Feingold, G., and I. Koren, 2023: Top-down approaches to the study of cloud systems, Chapter 13 in *Fast Processes in Large-Scale Atmospheric Models: Progress, Challenges, and Opportunities*. American Geophysical Union, ISBN: 978-1-119-52899-9.

Prabhakaran, P., F. Hoffmann, and G. Feingold, 2024: Effect of Intermittent Aerosol Forcing on the Stratocumulus-to-Cumulus Transition. *Atmos. Chem. Phys.*, 24, 1919–1937, <https://doi.org/10.5194/acp-24-1919-2024>, 2024.

Hoffmann, F., F. Glassmeier, T. Yamaguchi, and G. Feingold, 2023: On the roles of precipitation and entrainment in stratocumulus transitions between mesoscale states. *J. Atmos. Sci.*, DOI: <https://doi.org/10.1175/JAS-D-22-0268.1>.

Zhou, X., and G. Feingold, 2023: Impacts of mesoscale cloud organization on aerosol-induced cloud water adjustment and cloud brightness. *Geophys. Res. Lett.*, DOI: 10.1029/2023GL103417.

Hoffmann, F., and G. Feingold, 2023: A note on aerosol processing by droplet collision-coalescence. *Geophys. Res. Lett.*, DOI: 10.1029/2023GL103716.

Kahn, R. A., E. Andrews, C. A. Brock, M. Chin, G. Feingold, A. Gettelman, R. C. Levy, D.

- M. Murphy, A. Nenes, J. R. Pierce, T. Popp, J. Redemann, A. M. Sayer, A. da Silva, L. Sogacheva, and P. Stier., 2023: Reducing Aerosol Forcing Uncertainty By Combining Models with Satellite and Aircraft plus Surface-based Observations: A Three-Way Street. *Rev. Geophys.*, DOI: 10.1029/2022RG000796.
- Stier, P., S. C. van den Heever, M. Christensen, E. Gryspeerdt, G. Dagan, M. Bollasina, L. Donner, K. Emanuel, A. Ekman, G. Feingold, P. Field, P. Forster, J. Haywood, R. Kahn, I. Koren, C. Kummerow, T. L'Ecuyer, U. Lohmann, Y. Ming, G. Myhre, J. Quaas, D. Rosenfeld, B. Samset, A. Seifert, G. Stephens, W.-K. Tao, 2023: Multifaceted aerosol effects on precipitation. *Nature Geo.*, accepted pending revisions.
- Chen, H., Schmidt, K. S., Massie, S. T., Nataraja, V., Norgren, M. S., Gristey, J. J., Feingold, G., Holz, R. E., and Iwabuchi, H., 2023: The Education and Research 3D Radiative Transfer Toolbox (EaR3T) towards the mitigation of 3D bias in airborne and space-borne passive imagery cloud retrievals, *Atmos. Meas. Tech.*, 16, 1971 – 2000, <https://doi.org/10.5194/amt-16-1971-2023>.
- Prabhakaran, P., F. Hoffmann, and G. Feingold, 2023: Impact of pulse aerosol forcing on marine stratocumulus clouds in the context of marine cloud brightening. *J. Atmos. Sci.*, DOI: 10.1175/JAS-D-22-0207.1.
- Zhang, J. and G. Feingold, 2023: Distinct regional meteorological influences on low cloud albedo susceptibility over global marine stratocumulus regions. *Atmos. Chem. Phys.*, <https://doi.org/10.5194/acp-23-1073-2023>.
- Narenpitak, P., J. Kazil, T. Yamaguchi, P. Quinn, and G. Feingold, 2022: The Sugar-to-Flower Shallow Cumulus Transition Under the Influences of Diurnal Cycle and Free-Tropospheric Mineral Dust. *J. Adv. Model. Earth Syst.*, DOI: 10.1029/2022MS003228.
- Goren, T., G. Feingold, E. Gryspeerdt, J. Kazil, J. Kretzschmar, H. Jia, and J. Quaas, 2022: Projecting stratocumulus transitions on the albedo–cloud fraction relationship reveals linearity of albedo to droplet concentrations. *Geophys. Res. Lett.*, doi:10.1029/2022GL101169.
- Diamond, M. S., P. E. Saide, P. Zuidema, A. S. Ackerman, S. J. Doherty, A. M. Fridlind, H. Gordon, C. Howes, J. Kazil, T. Yamaguchi, J. Zhang, G. Feingold, and R. Wood, 2022: Cloud adjustments from large-scale smoke-circulation interactions strongly modulate the southeast Atlantic stratocumulus-to-cumulus transition. *Atmos. Chem. Phys.*, 22, 12113 – 12151, <https://doi.org/10.5194/acp-22-12113-2022>.
- Nataraja, V., K. S., Schmidt, H. Chen, T. Yamaguchi, J. Kazil, G. Feingold, K. Wolf, and H. Iwabuchi, 2022: Segmentation-Based Multi-Pixel Cloud Optical Thickness Retrieval Using a Convolutional Neural Network. *Atmos. Meas. Tech.*, 15, 5181 – 5205, <https://doi.org/10.5194/amt-15-5181-2022>.
- Gryspeerdt, E., F. Glassmeier, G. Feingold, F. Hoffmann, and R. J. Murray-Watson, 2022: Observing short timescale cloud development to constrain aerosol-cloud interactions. *Atmos. Chem. Phys.*, 22, 11727 – 11738, <https://doi.org/10.5194/acp-22-11727-2022>.
- Diamond, M. S., J. J. Gristey, J. E. Kay, and G. Feingold, 2022: Anthropogenic aerosol and cryosphere changes drive Earth's strong but transient clear-sky hemispheric albedo asymmetry, <https://doi.org/10.1038/s43247-022-00546-y>.
- Yang, C. K., J. C. Chiu, A. Marshak, G. Feingold, T. Várnai, G. Wen, T. Yamaguchi, P. J. van Leeuwen, 2022: Near-Cloud Aerosol Retrieval using Machine Learning Techniques, and Implied Direct Radiative Effects. *Geophys. Res. Lett.*, DOI: 10.1029/2022GL098274.
- Hoffmann, F., B. Mayer, and G. Feingold, 2022: A parameterization of interstitial aerosol



- optical thickness and its application to marine cloud brightening. *J. Atmos. Sci.*, DOI 10.1175/JAS-D-22-0047.1.
- Gristey, J. J., G. Feingold, K. S. Schmidt, and H. Chen, 2022: Influence of Aerosol Embedded in Shallow Cumulus Cloud Fields on the Surface Solar Irradiance. *J. Geophys. Res.*, 10.1029/2022JD036822.
- Feingold, G., T. Goren, and T. Yamaguchi, 2022: Quantifying albedo susceptibility biases in shallow clouds. *Atmos. Chem. Phys.*, 22, 3303 – 3319, <https://doi.org/10.5194/acp-22-3303-2022>.
- Gottelman, A., A. J. Geer, R. M. Forbes, G. R. Carmichael, G. Feingold, D. J. Posselt, G. L. Stephens, S. C. van den Heever, A. C. Varble, P. Zuidema, 2022: The Future of Earth System Prediction: Advances in Model-Data Fusion. *Science Advances*, doi:10.1126/sciadv.abn3488.
- Christensen, M., Gottelman, A., Cermak, J., Dagan, G., Diamond, M., Douglas, A., Feingold, G., Glassmeier, F., Goren, T., Grosvenor, D., Gryspeerd, E., Kahn, R., Li, Z., Ma, P.-L., Malavelle, F., McCoy, I., McCoy, D., McFarquhar, G., Mülmenstädt, J., Pal, S., Possner, A., Povey, A., Quaas, J., Rosenfeld, D., Schmidt, A., Schrödner, R., Sorooshian, A., Stier, P., Toll, V., Watson-Parris, D., Wood, R., Yang, M., and Yuan, T., 2022: Opportunistic experiments to constrain aerosol effective radiative forcing, *Atmos. Chem. Phys.*, 22, 641–674, <https://doi.org/10.5194/acp-22-641-2022>.
- Diamond, M. S., A. Gottelman, M. Lebsock, A. McComiskey, L. M. Russell, R. Wood, and G. Feingold, 2022: Opinion: To assess marine cloud brightening’s technical feasibility, we need to know what to study – and when to stop. *Proc. Nat. Acad. Sci.*, doi:10.1073/pnas.2118379119.
- Zhang, J., X. Zhou, T. Goren, and G. Feingold, 2022: Albedo susceptibility of Northeastern Pacific stratocumulus: the role of covarying meteorological conditions, *Atmos. Chem. Phys.*, 22, 861 – 880, <https://doi.org/10.5194/acp-22-861-2022>.
- Zhou, X., J. Zhang, and G. Feingold, 2021: Sea surface temperature control on the brightness of marine clouds over the North Atlantic Ocean. *Geophys. Res. Lett.*, DOI: 10.1029/2021GL095896.
- Yoshida, R., T. Yamaguchi, and G. Feingold, 2021: Two-Dimensional Idealized Hadley Circulation Simulation for Global High Resolution Model Development, *J. Adv. Model. Earth Syst.*, DOI: 10.1029/2021MS002714.
- Kazil, J., M. Christensen, S. J. Abel, T. Yamaguchi, and G. Feingold, 2021: Realism of Lagrangian large eddy simulations driven by reanalysis meteorology: Tracking a pocket of open cells under a biomass burning aerosol layer, *J. Adv. Model. Earth Syst.*, DOI:10.1029/2021MS002664.
- Chen, Y.-S., T. Yamaguchi, P. A. Bogenschutz, and G. Feingold, 2021: Model evaluation and intercomparison of marine warm low cloud fractions with neural network ensembles, *J. Adv. Model. Earth Syst.*, DOI: 10.1029/2021MS002625.
- Narenpitak, P., J. Kazil, T. Yamaguchi, P. Quinn, and G. Feingold, 2021: From sugar to flowers: A transition of shallow cumulus organization during ATOMIC. *J. Adv. Model. Earth Syst.*, DOI:10.1029/2021MS002619.
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