

Joanne Malkus Simpson

a bibliography by
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**Atmospheric
Science
Pioneer**

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The scope of this bibliography is straightforward, anything Mrs. Simpson wrote, co-wrote or contributed to I wanted to include.

For those of you who may not know, as I did not, Mrs. Simpson was the first female to graduate from the University of Chicago with a degree in field of atmospheric science. Until then, the field was, as many other fields at various times in history, considered a man's area. She had to fight a few battles to break through this attitude however, she had a helpful mentor.

The title list that follows was derived primarily from the *American Meteorological Society* online journals and Thomson's Web of Science databases.

I expect to refine this bibliography soon with a brief timeline of her career and a short bio of this very interesting and motivated pioneer in atmospheric science.

- Adler, Robert F., et al. "Microwave Simulations of a Tropical Rainfall System with a Three-Dimensional Cloud Model." *Journal of Applied Meteorology* 30.7 (1991): 924-53. Print.
- al.], Joanne Simpson ... [et. *On the Use of Gamma Functions and Bayesian Analysis in Evaluating Florida Cumulus Seeding Results*. Boulder, Colorado: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Environmental Research Laboratories, Office of the Director, 1973. Print.
- an, Joanne Simpson. *Statistical Analysis of Eml Multiple Cumulus Experiments in 1970, 1971, and 1972* Boulder, Colorado: Dept. of Commerce, National Oceanic and Atmospheric Administration, Environmental Research Laboratories
Print.
- Baker, R. David, et al. "The Influence of Soil Moisture, Coastline Curvature, and Land-Breeze Circulations on Sea-Breeze-Initiated Precipitation." *Journal of Hydrometeorology* 2.2 (2001): 193-211. Print.
- Betts, Alan K., and Joanne Simpson. "Thermodynamic Budget Diagrams for the Hurricane Subcloud Layer." *Journal of the Atmospheric Sciences* 44.5 (1987): 842-49. Print.
- Biondini, Ronald, Joanne Simpson, and William Woodley. "Empirical Predictors for Natural and Seeded Rainfall in the Florida Area Cumulus Experiment (Face), 1970-1975." *Journal of Applied Meteorology* 16.6 (1977): 585-94. Print.
- Bostwick H. Ketchum, Alfred C. Redfield, and John C. Ayers. *The Oceanography of the New York Bight* Cambridge, Massachusetts and Woods Hole, Massachusetts: Massachusetts Institute of Technology, Woods Hole Oceanographic Institution, 1951. Print.
- Bunker., Joanne Starr Malkus and Andrew F. *Observational Studies of the Air Flow over Nantucket Island During the Summer of 1950*. Woods Hole, Massachusetts: Woods Hole Oceanographic Institution, 1951. Print.
- Ferrier, Brad Schoenberg, Joanne Simpson, and Wei-Kuo Tao. "Factors Responsible for Precipitation Efficiencies in Midlatitude and Tropical Squall Simulations." *Monthly Weather Review* 124.10 (1996): 2100-25. Print.
- Ferrier, Brad Schoenberg, Wei-Kuo Tao, and Joanne Simpson. "A Double-Moment Multiple-Phase Four-Class Bulk Ice Scheme. Part II: Simulations of Convective Storms in Different Large-Scale Environments and Comparisons with Other Bulk Parameterizations." *Journal of the Atmospheric Sciences* 52.8 (1995): 1001-33. Print.
- Fierro, Alexandre O., et al. "On How Hot Towers Fuel the Hadley Cell: An Observational and Modeling Study of Line-Organized Convection in the Equatorial Trough from Toga Coare." *Journal of the Atmospheric Sciences* 66.9 (2009): 2730-46. Print.
- Fierro, Alexandre O., et al. "Tropical Oceanic Hot Towers: Need They Be Undilute to Transport Energy from the Boundary Layer to the Upper Troposphere Effectively? An Answer Based on Trajectory Analysis of a Simulation of a Toga Coare Convective System." *Journal of the Atmospheric Sciences* 69.1 (2011): 195-213. Print.
- . "Tropical Oceanic Hot Towers: Need They Be Undilute to Transport Energy from the Boundary Layer to the Upper Troposphere Effectively? An Answer Based on Trajectory Analysis of a Simulation of a Toga Coare Convective System." *Journal of the Atmospheric Sciences* 69.1 (2012): 195-213. Print.
- Goody, Richard, et al. "Why We Should Monitor the Climate." *Bulletin of the American Meteorological Society* 83.6 (2002): 873-78. Print.
- Halverson, Jeffrey B., et al. "An Ensemble of Convective Systems on 11 February 1993 During Toga Coare: Morphology, Rainfall Characteristics, and Anvil Cloud Interactions." *Monthly Weather Review* 127.6 (1999): 1208-28. Print.
- Heymsfield, Gerald M., et al. "Er-2 Doppler Radar Investigations of the Eyewall of Hurricane Bonnie During the Convection and Moisture Experiment-3." *Journal of Applied Meteorology* 40.8 (2001): 1310-30. Print.
- Heymsfield, G. M., et al. "Structure of Highly Sheared Tropical Storm Chantal During Camex-4." *Journal of the Atmospheric Sciences* 63.1 (2006): 268-87. Print.
- Holle, Ronald L., Joanne Simpson, and Steven W. Leavitt. "Gate B-Scale Cloudiness from Whole-Sky Cameras on Four U.S. Ships." *Monthly Weather Review* 107.7 (1979): 874-95. Print.
- Hou, Arthur Y., et al. "Improving Global Analysis and Short-Range Forecast Using Rainfall and Moisture Observations Derived from Trmm and Ssm/I Passive Microwave Sensors." *Bulletin of the American Meteorological Society* 82.4 (2001): 659-79. Print.
- Jiang, Haiyan, Jeffrey B. Halverson, and Joanne Simpson. "On the Differences in Storm Rainfall from Hurricanes Isidore and Lili. Part I: Satellite Observations and Rain Potential." *Weather and Forecasting* 23.1 (2008): 29-43. Print.
- Jiang, Haiyan, et al. "Hurricane "Rainfall Potential" Derived from Satellite Observations Aids Overland Rainfall Prediction." *Journal of Applied Meteorology and Climatology* 47.4 (2008): 944-59. Print.

- . "On the Differences in Storm Rainfall from Hurricanes Isidore and Lili. Part II: Water Budget." *Weather and Forecasting* 23.1 (2008): 44-61. Print.
- Joanne S. Malkus, Claude Ronne, Margaret Chaffee. *Cloud Patterns in Hurricane Daisy, 1958* Woods Hole Massachusetts: Woods Hole Oceanographic Institution, 1958? Print.
- Joanne Simpson and Andrew Bunker, Alfred C. Redfield, John Carr Ayers and Bostwick H. Ketchum. *Observational Studies of the Air Flow over Nantucket Island During the Summer of 1950*. Cambridge, Massachusetts: Massachusetts Institute of Technology 1952. Print.
- Joanne Simpson, Project Director, Commander J.W. Kidd, J.R. Stinson, G.W. Brier. *Scientific Aspect of Plans for Stormfury 1965 Cumulus Experiment* [Washington, District of Columbia] United States Weather Bureau, 1965. Print.
- Joanne Simpson, Raymond Wexler and Joseph Levine. *Meteorological and Oceanographic Research in Tropical Waters, July 1, 1956-June 30, 1957 Final Report*. Woods Hole, Massachusetts Oceanographic Institution: Woods Hole Oceanographic Institution. Reference, 1957. Print.
- Joanne Starr Malkus, Andrew F. Bunker, Kenneth McCasland. *At Head of Title: Marine Meteorology, Observational Studies of Convection*. Woods Hole, Massachusetts: Woods Hole Oceanographic Institution 1949. Print.
- Krishnamurti, T. N., et al. "Real-Time Multianalysis–Multimodel Superensemble Forecasts of Precipitation Using Trmm and Ssm/I Products." *Monthly Weather Review* 129.12 (2001): 2861-83. Print.
- Krishnamurti, T. N., et al. "Real-Time Multianalysis–Multimodel Superensemble Forecasts of Precipitation Using Trmm and Ssm/I Products." *Monthly Weather Review* 129.12 (2001): 2861-83. Print.
- Kummerow, Christian, et al. "The Tropical Rainfall Measuring Mission (Trmm) Sensor Package." *Journal of Atmospheric and Oceanic Technology* 15.3 (1998): 809-17. Print.
- Li, Xiaowen, et al. "Sensitivity of a Cloud-Resolving Model to Bulk and Explicit Bin Microphysical Schemes. Part I: Comparisons." *Journal of the Atmospheric Sciences* 66.1 (2009): 3-21. Print.
- . "Sensitivity of a Cloud-Resolving Model to Bulk and Explicit Bin Microphysical Schemes. Part II: Cloud Microphysics and Storm Dynamics Interactions." *Journal of the Atmospheric Sciences* 66.1 (2009): 22-40. Print.
- Malkus, Joanne. "Reply." *Journal of Meteorology* 14.1 (1957): 88-88. Print.
- Malkus, Joanne Starr. *On the Formation and Structure of Downdrafts in Cumulus Clouds* Woods Hole, Massachusetts: Woods Hole Oceanographic Institution, 1954. Print.
- Malkus, Joanne S. "On the Structure and Maintenance of the Mature Hurricane Eye." *Journal of Meteorology* 15.4 (1958): 337-49. Print.
- Malkus, Joanne Starr. *Recent Developments in Studies of Penetrative Convection and an Application to Hurricane Cumulo-Nimbus Towers Bred May 21, 1959, First Conference on Cumulus Convection*. Woods Hole, Massachusetts.: Woods Hole Oceanographic Institution Technical report, 1959. Print.
- Malkus, Joanne S. "Tropical Rain Induced by a Small Natural Heat Source." *Journal of Applied Meteorology* 2.5 (1963): 547-56. Print.
- Malkus, Joanne S., and Robert H. Simpson. "Note on the Potentialities of Cumulonimbus and Hurricane Seeding Experiments." *Journal of Applied Meteorology* 3.4 (1964): 470-75. Print.
- Malkus, Melvin E. Stern and Joanne Starr. *Airflow over a Heated Island (II)* Woods Hole, Massachusetts: Woods Hole Oceanographic Institution, 1952. Print.
- Malkus, Ruth Wexler and Joanne. *Tropical Meteorology Observational Studies of Tropical Clouds Results of 1956 Caribbean Aircraft Expedition* Woods Hole, Massachusetts Oceanographic Institution: Woods Hole Oceanographic Institution. Print.
- Malkus., Herbert Riehl and Joanne. *Some Aspects of Hurricane Daisy, 1958*. Washington, D.C.: Dept. of Commerce, Weather Bureau, 1961. Print.
- Malkus., Joanne S. *The Air and Sea in Interaction* [C]by Joanne S. Malkus. Woods Hole, Massachusetts?: Woods Hole Oceanographic Institution?, 1960. Print.
- Malkus., Joanne Starr. *Marine Meteorology: An Example of an Orographic-Convection Cell in the Trade-Wind Region* Woods Hole, Massachusetts: Woods Hole Oceanographic Institution, 1954. Print.
- . *Marine Meteorology: Cumulus Cloud Observations: Methods, Instrumentation, Flight Procedures, Reduction and Analysis of Data* Woods Hole, Massachusetts: Woods Hole Oceanographic Institution, 1954. Print.
- . *On the Structure and Maintenance of the Mature Hurricane Eye* Woods Hole, Massachusetts: Woods Hole Oceanographic Institution, 1957. Print.

- Malkus., Joanne S. *On the Structure of Trade-Wind Air Below Cloud*. Woods Hole, Massachusetts: Woods Hole Oceanographic Institution, 1956. Print.
- Malkus., Joanne Starr. *Some Results of a Trade Cumulus Cloud Investigation* [C]by Joanne Starr Malkus. Woods Hole, Massachusetts: Woods Hole Oceanographic Institution, 1953. Print.
- McCumber, Michale, et al. "Comparison of Ice-Phase Microphysical Parameterization Schemes Using Numerical Simulations of Tropical Convection." *Journal of Applied Meteorology* 30.7 (1991): 985-1004. Print.
- Olsen, Anthony R., et al. *On the Design and Evaluation of Cumulus Modification Experiments*. Noaa Technical Memorandum Erl Wmpo. Boulder, Colo.: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Environmental Research Laboratories, Weather Modification Program Office, 1974. Print.
- Pu, Zhaoxia, et al. "The Impact of Trmm Data on Mesoscale Numerical Simulation of Supertyphoon Paka." *Monthly Weather Review* 130.10 (2002): 2448-58. Print.
- Riehl, Herbert, Joanne Simpson, and Bureau United States. Weather. *Some Aspects of Hurricane Daisy, 1958*. Report National Hurricane Research Project. Washington, D.C.: U.S. Dept. of Commerce, Weather Bureau, 1961. Print.
- Riehl., Joanne Malkus Simpson and Herbert. *On the Dynamics and Energy Transformations in Steady-State Hurricanes* Washington, D.C. U.S. Dept. of Commerce, Weather Bureau: Dept. of Commerce, Weather Bureau, 1959. Print.
- Rodgers, Edward, et al. "Environmental Forcing of Supertyphoon Paka's (1997) Latent Heat Structure." *Journal of Applied Meteorology* 39.12 (2000): 1983-2006. Print.
- Ronne., Joanne Starr Malkus and Claude. *Concerning the Structure of Some Cumulus Clouds Which Penetrated the High Tropical Troposphere* Woods Hole, Massachusetts Woods Hole, Mass. :|bWoods Hole Oceanographic Institution,|c1954. Print.
- Schoenberg Ferrier, Brad, Joanne Simpson, and Wei-Kuo Tao. "Factors Responsible for Precipitation Efficiencies in Midlatitude and Tropical Squall Simulations." *Monthly Weather Review* 124.10 (1996): 2100-25. Print.
- Scorer., Joanne Starr Malkus and R.S. *The Erosion of Cumulus Towers* Woods Hole, Massachusetts: Woods Hole Oceanographic Institution,|c1954, 1954. Print.
- Simpson, Joanne. *Areal Extent of Seeding Effects in Relation to the Precipitation Enhancement Project : Report of an Informal Meeting of Experts Held in Charlottesville, Virginia, 14-18 November 1977 with the Support of the United Nations Environment Programme*. Geneva, Switzerland: World Meteorological Organization, 1977. Print.
- . "Downdrafts as Linkages in Dynamic Cumulus Seeding Effects." *Journal of Applied Meteorology* 19.4 (1980): 477-87. Print.
- . "On Cumulus Entrainment and One-Dimensional Models." *Journal of the Atmospheric Sciences* 28.3 (1971): 449-55. Print.
- . "On the Radar-Measured Increase in Precipitation within Ten Minutes Following Seeding." *Journal of Applied Meteorology* 9.2 (1970): 318-20. Print.
- . *On the Structure and Maintenance of the Mature Hurricane Eye : Contract Cwb 9241*. Woods Hole, Mass. Oceanographic Institution. Technical Report. Woods Hole, Mass.: [s.n.], 1957. Print.
- . "Photographic and Radar Study of the Stormfury 5 August 1965 Seeded Cloud." *Journal of Applied Meteorology* 6.1 (1967): 82-87. Print.
- . *Photographic and Radar Study of the Stormfury 5 August 1965 Seeded Cloud*. Project Stormfury Reports. [Washington, D.C.]: Dept. of Commerce Dept. of Defense, Navy, 1966. Print.
- . *Recent Advances in the Study of Convective Clouds and Their Interactions with the Environment*. Woods Hole, Mass: United States, Office of Naval Research, Woods Hole Oceanographic Institution, 1951. Print.
- . *Recent Developments in Studies of Penetrative Convection and an Application to Hurricane Cumulo-Nimbus Towers : Read May 21, 1959, First Conference on Cumulus Convection, and Submitted ... To the National Hurricane Project of the U.S. Weather Bureau under Contract Cwb 9509 and the National Science Foundation under Contract 7368 with the Woods Hole Oceanographic Institution*. Woods Hole, Mass. Oceanographic Institution. Technical Report. Woods Hole, Mass.: [s.n.], 1959. Print.
- . "Reply." *Journal of Applied Meteorology* 9.6 (1970): 951-52. Print.
- . *A Review of Hurricanes and Tropical Meteorology*. 1 vols1972. Print.
- . *Stormfury Cumulus Seeding Experiment 1965 : Preliminary Summary*. Project Stormfury Reports. [Washington, D.C.]: Dept. of Commerce Dept. of Defense, Navy, 1965. Print.
- . "Use of the Gamma Distribution in Single-Cloud Rainfall Analysis." *Monthly Weather Review* 100.4 (1972): 309-12. Print.
- . "What Weather Modification Needs—a Scientist's View." *Journal of Applied Meteorology* 17.6 (1978): 858-66. Print.

- Simpson, Joanne, Robert F. Adler, and Gerald R. North. "A Proposed Tropical Rainfall Measuring Mission (Trmm) Satellite." *Bulletin of the American Meteorological Society* 69.3 (1988): 278-95. Print.
- Simpson, Joanne, et al. *A Seeding Experiment in Cumulus Dynamics*. [Woods Hole, Mass.]: Woods Hole Oceanographic Institution, 1964. Print.
- Simpson, Joanne, and Glenn W. Brier. *Stormfury Cumulus Seeding Experiment 1965 : Statistical Analysis and Main Results*. U.S. Atmospheric Physics and Chemistry Laboratory. Technical Memorandum. Boulder, Colo.: [s.n.], 1967. Print.
- Simpson, Joanne, Glenn W. Brier, and R. H. Simpson. "Stormfury Cumulus Seeding Experiment 1965: Statistical Analysis and Main Results." *Journal of the Atmospheric Sciences* 24.5 (1967): 508-21. Print.
- Simpson, Joanne, et al. *Stormfury Cumulus Seeding Experiment 1965 : Statistical Analysis and Main Results*. Essa Technical Memorandum Iertm-Apcl. Boulder, Colo.: U.S. Dept. of Commerce, Environmental Science Services Administration, Institutes for Environmental Research, Atmospheric Physics and Chemistry Laboratory, 1967. Print.
- Simpson, Joanne, and Andrew F. Bunker. *Observational Studies of the Air Flow over Nantucket Island During the Summer of 1950*. Papers in Physical Oceanography and Meteorology. Cambridge, Mass. Woods Hole, Mass.: Massachusetts Institute of Technology ; Woods Hole Oceanographic Institution, 1952. Print.
- Simpson, Joanne, et al. *Observational Studies of Convection*. Reference (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1949. Print.
- Simpson, Joanne, et al. *Observational Studies of the Air Flow over Nantucket Island During the Summer of 1950*. Technical Report (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1951. Print.
- Simpson, Joanne, and Harry J. Cooper. "Reply." *Journal of Applied Meteorology* 20.9 (1981): 1085-88. Print.
- Simpson, Joanne, Arnett S. Dennis, and Director Environmental Research Laboratories . Office of the. *Cumulus Clouds and Their Modification*. NOAA Technical Memorandum Erl-Od. Boulder, Colo.: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Environmental Research Laboratories, Office of the Director, 1972. Print.
- Simpson, Joanne, Jane C. Eden, and Anthony R. Olsen. "On the Design and Evaluation of Cumulus Modification Experiments." *Journal of Applied Meteorology* 14.5 (1975): 946-58. Print.
- Simpson, Joanne, and Laboratories Environmental Research. *On the Use of Gamma Functions and Bayesian Analysis in Evaluating Florida Cumulus Seeding Results*. NOAA Technical Memorandum Erl Od. Boulder, Colo.: Environmental Research Laboratories, Office of the Director, 1973. Print.
- . *Statistical Analysis of Eml Multiple Cumulus Experiments in 1970, 1971, and 1972*. NOAA Technical Memorandum Erl Od. Boulder, Colo.: Environmental Research Laboratories, Office of the Director, 1973. Print.
- Simpson, Joanne, et al. *Statistical Analysis of Eml Multiple Cumulus Experiments in 1970, 1971, and 1972*. NOAA Technical Memorandum Erl Od. Boulder, Colo.: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Environmental Research Laboratories, 1973. Print.
- Simpson, Joanne, and Director Environmental Research Laboratories . Office of the. *On the Use of Gamma Functions and Bayesian Analysis in Evaluating Florida Cumulus Seeding Results*. NOAA Technical Memorandum Erl Od. Boulder, Colo.: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Environmental Research Laboratories, Office of the Director, 1973. Print.
- Simpson, Joanne, and Office Environmental Research Laboratories . Weather Modification Program. *The Global Energy Budget and the Role of Cumulus Clouds*. NOAA Technical Memorandum Erl Wmpo. Boulder, Colo.: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Environmental Research Laboratories, Weather Modification Program Office, 1973. Print.
- Simpson, Joanne, and Meteorology Florida State University. Department of. *A Study of a Non-Deepening Tropical Disturbance : A Report on the Program for Analysis ... Island of Barbados, West Indies*. Tallahassee, Fla.: Dept. of Meteorology, Florida State University, 1965. Print.
- Simpson, Joanne, et al. "Reply." *Journal of Applied Meteorology* 7.2 (1968): 299-99. Print.
- Simpson, Joanne, et al. "A Study of a Non-Deepening Tropical Disturbance." *Journal of Applied Meteorology* 6.2 (1967): 237-54. Print.
- Simpson, Joanne, et al. *Waterspouts, Gust Fronts and Associated Cloud Systems*. NASA Technical Memorandum. 1 vols. Washington D.C.: National Aeronautics and Space Administration, 1983. Print.
- Simpson, Joanne, and Cecilia Griffith. "Management Opportunities for Women Meteorologists." *Bulletin of the American Meteorological Society* 63.2 (1982): 167-67. Print.

- Simpson, Joanne, Gary Van Helvoirt, and Michael McCumber. "Three-Dimensional Simulations of Cumulus Congestus Clouds on Gate Day 261." *Journal of the Atmospheric Sciences* 39.1 (1982): 126-45. Print.
- Simpson, Joanne, et al. *Scientific Aspect of Plans for Stormfury 1965 Cumulus Experiment*. [Washington, District of Columbia]: United States Weather Bureau, 1965. Print.
- Simpson, Joanne, and Sciences Laboratory for Atmospheric. *Guidelines for the Severe Storms Program of the Goddard Laboratory for Atmospheric Sciences in the 1980's*. [Report] / National Aeronautics and Space Administration. Greenbelt, Md.: Laboratory for Atmospheric Sciences, Goddard Space Flight Center, National Aeronautics and Space Administration, 1980. Print.
- Simpson, Joanne, and Margaret LeMone. "Women in Meteorology." *Bulletin of the American Meteorological Society* 55.2 (1974): 122-31. Print.
- Simpson, Joanne, et al. "Observations and Mechanisms of Gate Waterspouts." *Journal of the Atmospheric Sciences* 43.8 (1986): 753-83. Print.
- Simpson, Joanne, and Research National Center for Atmospheric. *Report on the Hail Suppression Program at Nelspruit, Transvaal Republic of South Africa : Conducted Jointly by Colorado International Corporation and Lowveld Tobacco Cooperative*. National Hail Research Experiment Technical Report. Boulder, Colo.: National Center for Atmospheric Research, 1976. Print.
- Simpson, Joanne, Research National Center for Atmospheric, and Sciences University of Virginia. Department of Environmental. *Report on the Alberta Hail Project*. National Hail Research Experiment Technical Report. Boulder, Colo.: National Center for Atmospheric Research, 1976. Print.
- Simpson, Joanne, Jacques Pâezier, and Director Environmental Research Laboratories . Office of the. *Outline of a Bayesian Approach to the Eml Multiple Cloud Seeding Experiments*. Noaa Technical Memorandum Erl Od. Boulder, Colo.: Environmental Research Laboratories, Office of the Director. Print.
- Simpson, Joanne, and Herbert Riehl. *Cloud Structure and Distributions over the Tropical Pacific Ocean*. Berkeley: University of California Press, 1964. Print.
- Simpson, Joanne, Herbert Riehl, and Bureau United States. Weather. *On the Dynamics and Energy Transformations in Steady-State Hurricanes*. Report / National Hurricane Research Project. Washington, D.C.: U.S. Dept. of Commerce, Weather Bureau, 1959. Print.
- Simpson, Joanne, et al. "A Great Salt Lake Waterspout." *Monthly Weather Review* 119.12 (1991): 2741-70. Print.
- Simpson, Joanne, Claude Ronne, and Margaret Chaffee. *Cloud Patterns in Hurricane Daisy, 1958*. 1 vols. [S.l.: S.n., 1958. Print.
- Simpson, Joanne, et al. *Concerning the Structure of Some Cumulus Clouds Which Penetrated the High Tropical Troposphere*. Reference (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1954. Print.
- Simpson, Joanne, et al. *The Erosion of Cumulus Towers*. Reference (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1954. Print.
- Simpson, Joanne, and Robert H. Simpson. *Modification Experiments on Tropical Cumulus Clouds*. [S.l.: S.n. Print. ---. "Reply." *Journal of Applied Meteorology* 5.1 (1966): 135-36. Print.
- Simpson, Joanne, et al. "Stormfury Cumulus Experiments: Preliminary Results 1965." *Journal of Applied Meteorology* 5.4 (1966): 521-25. Print.
- Simpson, Joanne, et al. *Report of the Science Steering Group for a Tropical Rainfall Measuring Mission (Trmm)*. [Greenbelt, Md.]: National Aeronautics and Space Administration, 1988. Print.
- Simpson, Joanne, et al. *Stormfury Research Proposal to National Science Foundation*. Washington, District of Columbia: United States Weather Bureau, Office of Meteorological Research, 1965. Print.
- Simpson, Joanne, Gary Van Helvoirt, and Michael McCumber. "Three-Dimensional Simulations of Cumulus Congestus Clouds on Gate Day 261." *Journal of the Atmospheric Sciences* 39.1 (1982): 126-45. Print.
- Simpson, Joanne, et al. *Areal Extent of Seeding Effects in Relation to the Precipitation Enhancement Project : Report of an Informal Meeting of Experts Held in Charlottesville, Virginia, 14-18 November 1977 with the Support of the United Nations Environment Programme*. Pep Report. Geneva: World Meteorological Organization, 1977. Print.
- Simpson, Joanne, et al. *Meteorological and Oceanographic Research in Tropical Waters, July 1, 1956-June 30, 1957 : Final Report ... Cwb 9032*. Woods Hole, Mass., Oceanographic Institution. Reference. Woods Hole, Mass.: [s.n.], 1957. Print.
- Simpson, Joanne, and Victor Wiggert. "1968 Florida Cumulus Seeding Experiment: Numerical Model Results." *Monthly Weather Review* 99.2 (1971): 87-118. Print.

- . "Models of Precipitating Cumulus Towers." *Monthly Weather Review* 97.7 (1969): 471-89. Print.
- Simpson, Joanne, Victor Wiggert, and Thomas R. Mee. *Models of Seeding Experiments on Supercooled and Warm Cumulus Clouds*. [S.l.: S.n. Print.
- Simpson, Joanne, and William L. Woodley. "Florida Area Cumulus Experiments 1970-1973 Rainfall Results." *Journal of Applied Meteorology* 14.5 (1975): 734-44. Print.
- Simpson, Joanne, et al. *Intensive Study of Three Seeded Clouds on May 16, 1968*. Essa Technical Memorandum Erltm-Apcl. Boulder, Colo.: U.S. Dept. of Commerce, Environmental Science Services Administration, Research Laboratories, Atmospheric Physics and Chemistry Laboratory, 1969. Print.
- Simpson, Joanne, et al. "An Airborne Pyrotechnic Cloud Seeding System and Its Use." *Journal of Applied Meteorology* 9.1 (1970): 109-22. Print.
- Simpson, Joanne, et al. *An Airborne Pyrotechnic Cloud Seeding System and Its Use*. Essa Technical Memorandum Erltm-Apcl. Boulder, Colo.: U.S. Dept. of Commerce, Environmental Science Services Administration, Research Laboratories, Atmospheric Physics and Chemistry Laboratory, 1969. Print.
- Simpson, Joanne, et al. "Precipitation Results of Two Randomized Pyrotechnic Cumulus Seeding Experiments." *Journal of Applied Meteorology* 10.3 (1971): 526-44. Print.
- Simpson, Joanne, et al. "Bayesian Statistics Applied to Dynamic Modification Experiments on Florida Cumulus Clouds." *Journal of the Atmospheric Sciences* 30.6 (1973): 1178-90. Print.
- Simpson, Joanne, William L. Woodley, and Robert M. White. "Joint Federal-State Cumulus Seeding Program for Mitigation of South Florida Drought." *Bulletin of the American Meteorological Society* 53.4 (1972): 334-44. Print.
- Simpson, Joanne, and Institution Woods Hole Oceanographic. *The Air and Sea in Interaction*. 1 vols. [Woods Hole, Mass.: Woods Hole Oceanographic Institution?, 1960. Print.
- . *Report to the National Science Foundation on the Activities under Their Grant Entitled "Atmospheric Convection and Its Role in Tropical Meteorology" to the Woods Hole Oceanographic Institution*. [Woods Hole, Mass.: s.n., 1961. Print.
- . *Some Results of a Trade Cumulus Cloud Investigation*. Reference (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1953. Print.
- Simpson, Joanne, Institution Woods Hole Oceanographic, and Research United States. Office of Naval. *Cloud Structure and Distributions over the Tropical Pacific. Part Iii*. Reference. Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1962. Print.
- . *Cumulus Cloud Observations : Methods, Instrumentation, Flight Procedures, Reduction and Analysis of Data*. Reference (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1954. Print.
- . *An Example of an Orographic-Convection Cell in the Trade-Wind Region*. Reference (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1954. Print.
- . *On the Formation and Structure of Downdrafts in Cumulus Clouds*. Reference (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1954. Print.
- . *On the Structure of Trade-Wind Air Below Cloud*. Reference (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1956. Print.
- . *Recent Advances in the Study of Convective Clouds and Their Interaction with the Environment*. Technical Report (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1951. Print.
- Simpson, Joanne...[et al.]. *Guidelines for the Severe Storms Program of the Goddard Laboratory for Atmospheric Sciences in the 1980's Greenbelt*, Maryland.: Laboratory for Atmospheric Sciences, Goddard Space Flight Center, National Aeronautics and Space Administration, 1980. Print.
- Simpson, Joanne Malkus, and R. H. Simpson. "Reply." *Journal of Applied Meteorology* 4.3 (1965): 427-29. Print.
- Simpson, Robert H., Joanne Simpson, and J. Robert Stinson. *Some Aspects of Hurricane Modification*. Project Stormfury Reports. [Washington, D.C.]: Dept. of Commerce Dept. of Defense, Navy, 1966. Print.
- Simpson, Robert H., et al. *Hurricane Modification : Progress and Prospects, 1964*. [S.l.: U.S. Weather Bureau?], 1964. Print.
- Simpson, cedited by Joanne. *Report of the Science Steering Group for a Tropical Rainfall Measuring Mission (Trmm)* [Washington, D.C.]: National Aeronautics and Space Administration, 1988. Print.
- Starr, Joanne Gerould. "Notes on Inerial Oscillations." *Journal of Meteorology* 2.2 (1945): 120-22. Print.

- Starr Malkus, Joanne. "Cloud Lines Formed by the Smaller Hawaiian Islands." *Journal of Meteorology* 7.2 (1950): 165-66. Print.
- . "On the Formation and Structure of Downdrafts in Cumulus Clouds." *Journal of Meteorology* 12.4 (1955): 350-54. Print.
- . "Reply." *Journal of Meteorology* 12.5 (1955): 508-10. Print.
- . "Some Results of a Trade-Cumulus Cloud Investigation." *Journal of Meteorology* 11.3 (1954): 220-37. Print.
- Starr Malkus, Joanne, and R. S. Scorer. "The Erosion of Cumulus Towers." *Journal of Meteorology* 12.1 (1955): 43-57. Print.
- Starr Malkus, Joanne, and Melvin E. Stern. "The Flow of a Stable Atmosphere over a Heated Island, Part 1." *Journal of Meteorology* 10.1 (1953): 30-41. Print.
- Stern, Melvin E., et al. *Airflow over a Heated Island (II)*. Technical Report (Woods Hole Oceanographic Institution). Woods Hole, Mass.: Woods Hole Oceanographic Institution, 1952. Print.
- Tao, Wei-Kuo, et al. "A Multiscale Modeling System: Developments, Applications, and Critical Issues." *Bulletin of the American Meteorological Society* 90.4 (2009): 515-34. Print.
- Tao, Wei-Kuo, and Joanne Simpson. "Cloud Interactions and Merging: Numerical Simulations." *Journal of the Atmospheric Sciences* 41.19 (1984): 2901-17. Print.
- . "A Further Study of Cumulus Interactions and Mergers: Three-Dimensional Simulations with Trajectory Analyses." *Journal of the Atmospheric Sciences* 46.19 (1989): 2974-3004. Print.
- . "A Further Study of Cumulus Interactions and Mergers: Three-Dimensional Simulations with Trajectory Analyses." *Journal of the Atmospheric Sciences* 46.19 (1988): 2974-3004. Print.
- . "Modeling Study of a Tropical Squall-Type Convective Line." *Journal of the Atmospheric Sciences* 46.2 (1989): 177-202. Print.
- . "Modeling Study of a Tropical Squall-Type Convective Line." *Journal of the Atmospheric Sciences* 46.2 (1988): 177-202. Print.
- Tao, Wei-Kuo, et al. "An Algorithm to Estimate the Heating Budget from Vertical Hydrometeor Profiles." *Journal of Applied Meteorology* 29.12 (1990): 1232-44. Print.
- Tao, Wei-Kuo, Joanne Simpson, and Michael McCumber. "An Ice-Water Saturation Adjustment." *Monthly Weather Review* 117.1 (1989): 231-35. Print.
- Tao, Wei-Kuo, Joanne Simpson, and Su-Tzai Soong. "Numerical Simulation of a Subtropical Squall Line over the Taiwan Strait." *Monthly Weather Review* 119.11 (1991): 2699-723. Print.
- . "Statistical Properties of a Cloud Ensemble: A Numerical Study." *Journal of the Atmospheric Sciences* 44.21 (1987): 3175-87. Print.
- Thompson, Anne M., et al. "Tropical Deep Convection and Ozone Formation." *Bulletin of the American Meteorological Society* 78.6 (1997): 1043-54. Print.
- Tropical Rainfall Measuring Mission. Science Steering, Group, et al. *Report of the Science Steering Group for a Tropical Rainfall Measuring Mission (Trmm)*. [Washington, D.C.?]: National Aeronautics and Space Administration, 1988. Print.
- Wang, Yansen, Wei-Kuo Tao, and Joanne Simpson. "The Impact of Ocean Surface Fluxes on a Toga Coare Convective System." *Monthly Weather Review* 124.12 (1996): 2753-63. Print.
- Wexler, Ruth L., and Joanne Simpson. *Tropical Meteorology Observational Studies of Tropical Clouds : Results of 1956 Caribbean Aircraft Expedition*. Woods Hole, Mass. Oceanographic Institution. Technical Report. Woods Hole, Mass.: [s.n.], 1958. Print.
- Woodley, William L., et al. "Clarification of Confirmation in the Face-2 Experiment." *Bulletin of the American Meteorological Society* 63.3 (1982): 273-73. Print.
- Woodley, William L., et al. "Rainfall Results of the Florida Area Cumulus Experiment, 1970-76." *Journal of Applied Meteorology* 21.2 (1982): 139-64. Print.
- Woodley, W. L., et al. *Florida Cumulus Seeding Experiment for Drought Mitigation, April-May 1971*. Noaa Technical Memorandum Erl Od. Print.
- Zeng, Xiping, Wei-Kuo Tao, and Joanne Simpson. "An Equation for Moist Entropy in a Precipitating and Icy Atmosphere." *Journal of the Atmospheric Sciences* 62.12 (2005): 4293-309. Print.
- Zeng, Xiping, et al. "An Indirect Effect of Ice Nuclei on Atmospheric Radiation." *Journal of the Atmospheric Sciences* 66.1 (2009): 41-61. Print.
- Zeng, Xiping, et al. "Evaluating Clouds in Long-Term Cloud-Resolving Model Simulations with Observational Data." *Journal of the Atmospheric Sciences* 64.12 (2007): 4153-77. Print.