

VITA

Wayne H. Schubert

Professor

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Education

1966	B.A.	University of California at Los Angeles	Meteorology
1969	M.S.	University of California at Los Angeles	Meteorology
1973	Ph.D.	University of California at Los Angeles (under guidance of Professor A. Arakawa)	Meteorology

Professional Positions

		Faculty Positions, Department of Atmospheric Science, Colorado State University
1984 – Present		• Professor
1979 – 1984		• Associate Professor
1973 – 1979		• Assistant Professor
		Graduate Student Positions, Department of Meteorology, University of California at Los Angeles
1969 – 1973		• Post Graduate Research Assistant
1967 – 1968		• Research Assistant and Teaching Assistant

Fellowships, Honors, and Awards

2007	Jack E. Cermak Advising Award, Colorado State University
2006	Outstanding Professor of the Year, Department of Atmospheric Science, Colorado State University
1997	American Meteorological Society (AMS) Fellow
1997	Abell Faculty Teaching Award, College of Engineering, Colorado State University
1995	Banner I. Miller Award (joint with Thomas A. Guinn), American Meteorological Society (Hurricanes and Tropical Meteorology Conference)
1992	Outstanding Teaching Award, Graduate Students of the Department of Atmospheric Science, Colorado State University
1988	Dean's Council Award, Colorado State University
1985	Burlington Northern Faculty Achievement Award, Colorado State University

Committees, Boards, and Editorships

2009 – 2013	Director for Knowledge Transfer, Center for Multiscale Modeling of Atmospheric Processes (CMMAP), Colorado State University
2008 – Present	Editor, <i>Journal of Advances in Modeling Earth Systems</i>
1998 – 2001	Publications Commissioner, American Meteorological Society
1996 – 1997	American Meteorological Society Committee Co-Chairperson for the 22 nd Conference on Hurricanes and Tropical Meteorology
1986 – 1989	Co-Chief Editor, <i>Journal of the Atmospheric Sciences</i>
1973 – 1979	World Meteorological Organization/International Council for Scientific Unions JOC Working Groups on Clouds and National Academy of Sciences GATE Panel

Publications

2014

Hendricks, E. A., W. H. Schubert, Y.-H. Chen, H.-C. Kuo, and M. S. Peng, 2014: Hurricane eyewall evolution in a forced shallow-water model. *J. Atmos. Sci.*, **71**, 1623-1643.

Slocum, C. J., G. J. Williams, R. K. Taft, and W. H. Schubert, 2014: Tropical cyclone boundary layer shocks. arXiv:1405.7939.

2013

Knaff, J. A., M. DeMaria, C. R. Sampson, J. E. Peak, J. Cummings, and W. H. Schubert, 2013: Upper oceanic energy response to tropical cyclone passage. *J. Climate*, **26**, 2631-2650.

Masarik, M. T., and W. H. Schubert, 2013: Analytical solutions of the potential vorticity invertibility principle. *J. Adv. Model. Earth Syst.*, **5**, 366-381.

Williams, G. J., R. K. Taft, B. D. McNoldy, and W. H. Schubert, 2013: Shock-like structures in the tropical cyclone boundary layer. *J. Adv. Model. Earth Syst.*, **5**, 338-353.

2012

Hendricks, E. A., B. D. McNoldy, and W. H. Schubert, 2012: Observed inner-core structural variability in Hurricane Dolly (2008). *Mon. Wea. Rev.*, **140**, 4066-4077.

Musgrave, K. D., R. K. Taft, J. L. Vigh, B. D. McNoldy, and W. H. Schubert, 2012: Time evolution of the intensity and size of tropical cyclones. *J. Adv. Model. Earth Syst.*, **4**, M08001, 15 pp.

Silvers, L. G., and W. H. Schubert, 2012: A theory of topographically bound balanced motions and application to atmospheric low-level jets. *J. Atmos. Sci.*, **69**, 2878-2891.

Vigh, J. L., J. A. Knaff, and W. H. Schubert, 2012: A climatology of hurricane eye formation. *Mon. Wea. Rev.*, **140**, 1405-1426.

2011

Donner, L., W. Schubert, and R. Somerville, Eds., 2011: *The Development of Atmospheric General Circulation Models: Complexity, Synthesis and Computation*. Cambridge University Press, 272 pp.

2010

- Hendricks, E. A., and W. H. Schubert, 2010: Adiabatic rearrangement of hollow PV towers. *J. Adv. Model. Earth Syst.*, **2**, Art. #8, 19 pp.
- Hendricks, E. A., W. H. Schubert, S. R. Fulton, and B. D. McNoldy, 2010: Spontaneous-adjustment emission of inertia-gravity waves by unsteady vortical motion in the hurricane core. *Quart. J. Roy. Meteor. Soc.*, **136**, 537-548.
- Schubert, W. H., and B. D. McNoldy, 2010: Application of the concepts of Rossby length and Rossby depth to tropical cyclone dynamics. *J. Adv. Model. Earth Syst.*, **2**, Art. #7, 13pp.
- Tsai, Y.-M., H.-C. Kuo, and W. H. Schubert, 2010: Filamentation time diagnosis of thinning troughs and cutoff lows. *Mon. Wea. Rev.*, **138**, 2327-2335.

2009

- Hendricks, E. A., and W. H. Schubert, 2009: Transport and mixing in idealized barotropic hurricane-like vortices. *Quart. J. Roy. Meteor. Soc.*, **135**, 1456-1470.
- Hendricks, E. A., W. H. Schubert, R. K. Taft, H. Wang, and J. P. Kossin, 2009: Life cycles of hurricane-like vorticity rings. *J. Atmos. Sci.*, **66**, 705-722.
- Rozoff, C. M., J. P. Kossin, W. H. Schubert, and P. J. Mulero, 2009: Internal control of hurricane intensity variability: The dual nature of potential vorticity mixing. *J. Atmos. Sci.*, **66**, 133-147.
- Schubert, W. H., L. G. Silvers, M. T. Masarik, and A. O. Gonzalez, 2009: A filtered model of tropical wave motions. *J. Adv. Model. Earth Syst.*, **1**, Art. #3, 11 pp.
- Schubert, W. H., R. K. Taft, and L. G. Silvers, 2009: Shallow water quasi-geostrophic theory on the sphere. *J. Adv. Model. Earth Syst.*, **1**, Art. #2, 17 pp.
- Vigh, J. L., and W. H. Schubert, 2009: Rapid development of the tropical cyclone warm core. *J. Atmos. Sci.*, **66**, 3335-3350.

2008

- Kuo, H.-C., W. H. Schubert, C.-L. Tsai, and Y.-F. Kuo, 2008: Vortex interactions and barotropic aspects of concentric eyewall formation. *Mon. Wea. Rev.*, **136**, 5183-5198.
- Rozoff, C. M., W. H. Schubert, and J. P. Kossin, 2008: Some dynamical aspects of tropical cyclone concentric eyewalls. *Quart. J. Roy. Meteor. Soc.*, **134**, 583-593.

2007

- Schubert, W. H., C. M. Rozoff, J. L. Vigh, B. D. McNoldy, and J. P. Kossin, 2007: On the distribution of subsidence in the hurricane eye. *Quart. J. Roy. Meteor. Soc.*, **133**, 595-605.

2006

- Hausman, S. A., K. V. Ooyama, and W. H. Schubert, 2006: Potential vorticity structure of simulated hurricanes. *J. Atmos. Sci.*, **63**, 87-108.
- Rozoff, C. M., W. H. Schubert, B. D. McNoldy, and J. P. Kossin, 2006: Rapid filamentation zones in intense tropical cyclones. *J. Atmos. Sci.*, **63**, 325-340.

Schubert, W. H., and M. T. Masarik, 2006: Potential vorticity aspects of the MJO. *Dyn. Atmos. Oceans*, **42**, 127-151.

2004

Kossin, J. P., and W. H. Schubert, 2004: Mesovortices in Hurricane Isabel. *Bull. Amer. Met. Soc.*, **85**, 151-153.

McNoldy, B. D., P. E. Ciesielski, W. H. Schubert, and R. H. Johnson, 2004: Surface winds, divergence, and vorticity in stratocumulus regions using QuikSCAT and reanalysis winds. *Geo. Res. Let.*, **31**, L08105.

Randall, D. A., and W. H. Schubert, 2004: Dreams of a stratocumulus sleeper. *Atmospheric Turbulence and Mesoscale Meteorology*, Ch. 4, Cambridge University Press, 71-94.

Schubert, W., 2004: A generalization of Ertel's potential vorticity to a cloudy, precipitating atmosphere. *Meteor. Zeit.*, **13**, 465-471.

Schubert, W., E. Ruprecht, R. Hertenstein, R. Nieto Ferreira, R. Taft, C. Rozoff, P. Ciesielski, and H.-C. Kuo, 2004: English translations of twenty-one of Ertel's papers on geophysical fluid dynamics. *Meteor. Zeit.*, **13**, 527-576.

2003

Kossin, J. P., and W. H. Schubert, 2003: Diffusion versus advective rearrangement of a circular vortex sheet. *J. Atmos. Sci.*, **60**, 586-589.

McNoldy, B. D., A. Cheng, Z. A. Eitzen, R. W. Moore, J. Persing, K. Schaefer, and W. H. Schubert, 2003: Design and construction of an affordable rotating table for classroom demonstrations of geophysical fluid dynamics principles. *Bull. Amer. Meteor. Soc.*, **84**, 1827-1834.

Prieto, R., B. D. McNoldy, S. R. Fulton, and W. H. Schubert, 2003: A classification of binary tropical cyclone-like vortex interactions. *Mon. Wea. Rev.*, **131**, 2656-2666.

Vigh, J., S. R. Fulton, M. DeMaria, and W. H. Schubert, 2003: Evaluation of a multigrad barotropic tropical cyclone track model. *Mon. Wea. Rev.*, **131**, 1629-1636.

2002

Kossin, J. P., B. D. McNoldy, and W. H. Schubert, 2002: Vortical swirls in hurricane eye clouds. *Mon. Wea. Rev.*, **130**, 3144-3149.

2001

Ciesielski, P. E., W. H. Schubert, and R. H. Johnson, 2001: Diurnal variability of the marine boundary layer during ASTEX. *J. Atmos. Sci.*, **58**, 2355-2376.

Kossin, J. P., and W. H. Schubert, 2001: Mesovortices, polygonal flow patterns, and rapid pressure falls in hurricane-like vortices. *J. Atmos. Sci.*, **58**, 2196-2209.

Prieto, R., and W. H. Schubert, 2001: Analytical predictions for zonally symmetric equilibrium states of the stratospheric polar vortex. *J. Atmos. Sci.*, **58**, 2709-2728.

Prieto, R., J. P. Kossin, and W. H. Schubert, 2001: Symmetrization of lopsided vorticity monopoles and offset hurricane eyes. *Quart. J. Roy. Meteor. Soc.*, **127**, 2307-2327.

Schubert, W.H., S.A. Hausman, M. Garcia, K.V. Ooyama, and H.-C. Kuo, 2001: Potential vorticity in a moist atmosphere. *J. Atmos. Sci.*, **58**, 3148-3157.

2000

- G. L. Browning, H-O. Kreiss, and W. H. Schubert, 2000: The role of gravity waves in slowly varying in time tropospheric motions near the equator. *J. Atmos. Sci.*, **57**, 4008–4019.
- Kossin, J. P., W. H. Schubert, and M. T. Montgomery, 2000: Unstable interactions between a hurricane's primary eyewall and a secondary ring of enhanced vorticity. *J. Atmos. Sci.*, **57**, 3893-3917.

1999

- Ciesielski, P. E., W. H. Schubert, and R. H. Johnson, 1999: Large-scale heat and moisture budgets over the ASTEX region. *J. Atmos. Sci.*, **56**, 3241-3261.
- Johnson, R. H., T. M. Rickenbach, S. A. Rutledge, P. E. Ciesielski, and W. H. Schubert, 1999: Trimodal characteristics of tropical convection. *J. Climate*, **12**, 2397-2418.
- Nieto Ferreira, R., and W. H. Schubert, 1999: The role of tropical cyclones in the formation of tropical upper-tropospheric troughs. *J. Atmos. Sci.*, **56**, 2891-2907.
- Schubert, W. H., M. T. Montgomery, R. K. Taft, T. A. Guinn, S. R. Fulton, J. P. Kossin, and J. P. Edwards, 1999: Polygonal eyewalls, asymmetric eye contraction, and potential vorticity mixing in hurricanes. *J. Atmos. Sci.*, **56**, 1197-1223.

1997

- Lu, C., P. E. Ciesielski, and W. H. Schubert, 1997: Geostrophic and ageostrophic circulations in midlatitude squall lines. *J. Atmos. Sci.*, **54**, 1218-1230.
- Nieto Ferreira, R., and W. H. Schubert, 1997: Barotropic aspects of ITCZ breakdown. *J. Atmos. Sci.*, **54**, 261-285.

1996

- Nieto Ferreira, R., W. H. Schubert, and J. J. Hack, 1996: Dynamical aspects of twin tropical cyclones associated with the Madden-Julian oscillation. *J. Atmos. Sci.*, **53**, 929-945.

1995

- A. S. Frisch, D. H. Lenschow, C. W. Fairall, W. H. Schubert, and J. S. Gibson, 1995: Doppler Radar Measurements of Turbulence in Marine Stratiform Cloud during ASTEX. *J. Atmos. Sci.*, **52**, 2800–2808.
- Fulton, S. R., W. H. Schubert, and S. A. Hausman, 1995: Dynamical adjustment of mesoscale convective anvils. *Mon. Wea. Rev.*, **123**, 3215-3226.
- Schubert, W. H., P. E. Ciesielski, C. Lu, and R. H. Johnson, 1995: Dynamical adjustment of the trade wind inversion layer. *J. Atmos. Sci.*, **52**, 2941-2952.

1994

- Flatau, M., W. H. Schubert, and D. E. Stevens, 1994: The role of baroclinic processes in tropical cyclone motion: The influence of vertical tilt. *J. Atmos. Sci.*, **51**, 2589-2601.
- Guinn, T. A., and W. H. Schubert, 1994: Reply to Comments on "Hurricane spiral bands." *J. Atmos. Sci.*, **51**, 3545-3546.
- Schubert, W. H., and G. Magnusdottir, 1994: Vorticity coordinates, transformed primitive equations, and a canonical form for balanced models. *J. Atmos. Sci.*, **51**, 3309-3319.

1993

Guinn, T. A., and W. H. Schubert, 1993: Hurricane spiral bands. *J. Atmos. Sci.*, **50**, 3380-3403.

1991

Fulton, S. R., and W. H. Schubert, 1991: Surface frontogenesis in isentropic coordinates. *J. Atmos. Sci.*, **48**, 2534-2541.

Hertenstein, R. F. A., and W. H. Schubert, 1991: Potential vorticity anomalies associated with squall lines. *Mon. Wea. Rev.*, **119**, 1663-1672.

Magnusdottir, G., and W. H. Schubert, 1991: Semigeostrophic theory on the hemisphere. *J. Atmos. Sci.*, **48**, 1449-1456.

Schubert, W. H., P. E. Ciesielski, D. E. Stevens, and H.-C. Kuo, 1991: Potential vorticity modeling of the ITCZ and the Hadley circulation. *J. Atmos. Sci.*, **48**, 1493-1509.

1990

Albrecht, B. A., C. W. Fairall, D. W. Thomson, A. B. White, J. B. Snider, and W. H. Schubert, 1990: Surface-based remote sensing of the observed and the adiabatic liquid water content of stratocumulus clouds. *Geo. Res. Letters*, **17**, 89-92.

Hack, J. J., and W. H. Schubert, 1990: Some dynamical properties of idealized thermally-forced meridional circulations in the tropics. *Meteor. Atmos. Phys.*, **44**, 101-117.

Magnusdottir, G., and W. H. Schubert, 1990: The generalization of semigeostrophic theory to the β -plane. *J. Atmos. Sci.*, **47**, 1714-1720.

Stevens, D. E., H.-C. Kuo, W. H. Schubert, and P. E. Ciesielski, 1990: Quasi-balanced dynamics in the tropics. *J. Atmos. Sci.*, **47**, 2262-2273.

1989

Hack, J. J., W. H. Schubert, D. E. Stevens, and H.-C. Kuo, 1989: Response of the Hadley circulation to convective forcing in the ITCZ. *J. Atmos. Sci.*, **46**, 2957-2973.

Johnson, R. H., and W. H. Schubert, 1989: Publication trends in American Meteorological Society technical journals. *Bull. Amer. Meteor. Soc.*, **70**, 476-479.

Schubert, W. H., S. R. Fulton, and R. F. A. Hertenstein, 1989: Balanced atmospheric response to squall lines. *J. Atmos. Sci.*, **46**, 2478-2483.

1988

Kuo, H.-C., and W. H. Schubert, 1988: Stability of cloud-topped boundary layers. *Quart. J. Roy. Meteor. Soc.*, **114**, 887-916.

1987

Fulton, S. R., and W. H. Schubert, 1987: Chebyshev spectral methods for limited-area models. Part I: Model problem analysis. *Mon. Wea. Rev.*, **115**, 1940-1953.

Fulton, S. R., and W. H. Schubert, 1987: Chebyshev spectral methods for limited-area models. Part II: Shallow water model. *Mon. Wea. Rev.*, **115**, 1954-1965.

Schubert, W. H., and B. T. Alworth, 1987: Evolution of potential vorticity in tropical cyclones. *Quart. J. Roy. Meteor. Soc.*, **113**, 147-162.

1986

- Ciesielski, P. E., S. R. Fulton, and W. H. Schubert, 1986: Multigrid solution of an elliptic boundary value problem from tropical cyclone theory. *Mon. Wea. Rev.*, **114**, 797-807.
- Fulton, S. R., P. E. Ciesielski, and W. H. Schubert, 1986: Multigrid methods for elliptic problems: A review. *Mon. Wea. Rev.*, **114**, 943-959.
- Hack, J. J., and W. H. Schubert, 1986: Nonlinear response of atmospheric vortices to heating by organized cumulus convection. *J. Atmos. Sci.*, **43**, 1559-1573.

1985

- Albrecht, B. A., R. S. Penc, and W. H. Schubert, 1985: An observational study of cloud-topped mixed layers. *J. Atmos. Sci.*, **42**, 800-822.
- DeMaria, M., and W. H. Schubert, 1985: Axisymmetric, primitive equation, spectral tropical cyclone model. Part II: Normal mode initialization. *J. Atmos. Sci.*, **42**, 1225-1236.
- Fulton, S. R., and W. H. Schubert, 1985: Vertical normal mode transforms: Theory and application. *Mon. Wea. Rev.*, **113**, 647-658.
- Schubert, W. H., 1985: A note on semigeostrophic theory. *J. Atmos. Sci.*, **42**, 1770-1772.
- Schubert, W. H., and M. DeMaria, 1985: Axisymmetric, primitive equation, spectral tropical cyclone model. Part I: Formulation. *J. Atmos. Sci.*, **42**, 1213-1224.

1984

- DeMaria, M., and W. H. Schubert, 1984: Experiments with a spectral tropical cyclone model. *J. Atmos. Sci.*, **41**, 901-924.
- Hack, J. J., W. H. Schubert, and P. L. Silva Dias, 1984: A spectral cumulus parameterization for use in numerical models of the tropical atmosphere. *Mon. Wea. Rev.*, **112**, 704-716.
- Schubert, W. H., G. D. Taylor, S. R. Fulton, and M. DeMaria, 1984: A Chebyshev spectral method for boundary-layer models. *Arch. Met. Geoph. Biocl. Ser. A*, **33**, 117-126.

1983

- Schubert, W. H., and J. J. Hack, 1983: Transformed Eliassen balanced vortex model. *J. Atmos. Sci.*, **40**, 1571-1583.
- Silva Dias, P. L., W. H. Schubert, and M. DeMaria, 1983: Large-scale response of the tropical atmosphere to transient convection. *J. Atmos. Sci.*, **40**, 2689-2707.

1982

- Schubert, W. H., and J. J. Hack, 1982: Inertial stability and tropical cyclone development. *J. Atmos. Sci.*, **39**, 1687-1697.

1981

- Hack, J. J., and W. H. Schubert, 1981: Lateral boundary conditions for tropical cyclone models. *Mon. Wea. Rev.*, **109**, 1404-1420.
- Wakefield, J. S., and W. H. Schubert, 1981: Mixed-layer model simulation of Eastern North Pacific stratocumulus. *Mon. Wea. Rev.*, **109**, 1952-1968.

1980

Lilly, D. K., and W. H. Schubert, 1980: The effects of radiative cooling in a cloud-topped mixed layer. *J. Atmos. Sci.*, **37**, 482-487.

Schubert, W. H., J. J. Hack, P. L. Silva Dias, and S. R. Fulton, 1980: Geostrophic adjustment in an axisymmetric vortex. *J. Atmos. Sci.*, **37**, 1464-1484.

1979

Albrecht, B. A., A. K. Betts, W. H. Schubert, and S. K. Cox, 1979: A model of the thermodynamic structure of the trade-wind boundary layer: Part I. Theoretical formulation and sensitivity tests. *J. Atmos. Sci.*, **36**, 73-89.

Albrecht, B. A., S. K. Cox, and W. H. Schubert, 1979: Radiometric measurements of in-cloud temperature fluctuations. *J. Appl. Meteor.*, **18**, 1066-1071.

Schubert, W. H., J. S. Wakefield, E. J. Steiner, and S. K. Cox, 1979: Marine stratocumulus convection. Part I: Governing equations and horizontally homogeneous solutions. *J. Atmos. Sci.*, **36**, 1286-1307.

Schubert, W. H., J. S. Wakefield, E. J. Steiner, and S. K. Cox, 1979: Marine stratocumulus convection. Part II: Horizontally inhomogeneous solutions. *J. Atmos. Sci.*, **36**, 1308-1324.

1976

Schubert, W. H., 1976: Experiments with Lilly's cloud-topped mixed layer model. *J. Atmos. Sci.*, **33**, 436-446.

1974

Arakawa, A., and W. H. Schubert, 1974: Interaction of a cumulus cloud ensemble with the large-scale environment, Part I. *J. Atmos. Sci.*, **31**, 674-701.

Graduate Students Advised

Ph.D.

Mora Rojas, G.	2013	Deep and Shallow Overturning Circulations in the Tropical Atmosphere
Dostalek, J. F.	2012	Global Omega Equation: Derivation and Application to Tropical Cyclogenesis in the North Atlantic Ocean
Williams, G. J.	2012	The Effects of Environmental Flow on the Internal Dynamics of Tropical Cyclones
Masarik, M. T.	2012	Simple Analytical Solutions for Potential Vorticity Intrusions
Musgrave, K. D.	2011	Tropical Cyclone Inner Core Structure and Intensity Change
Silvers, L. G.	2011	A Theory of Topographically Bound Balanced Motions and Application to Atmospheric Low-Level Jets
Vigh, J. L.	2010	Formation of the Hurricane Eye
Hendricks, E. A.	2008	Tropical Cyclone Evolution Via Internal Asymmetric Dynamics
Klotzbach, P. J.	2007	Developments in Seasonal Atlantic Basin Tropical Cyclone Prediction

- Rozoff, C. M. 2007 Aspects of Moat Formation in Tropical Cyclone Eyewall Replacement Cycles
- Straub, K. A. 2002 Observations of Convectively Coupled Kelvin Waves
- Hausman, S. A. 2001 Formulation and Sensitivity Analysis of a Nonhydrostatic, Axisymmetric Tropical Cyclone Model
- Kossin, J. P. 2000 Barotropic Instability and Asymmetric Mixing in Hurricanes with Primary and Secondary Eyewalls
- Prieto-Gonzalez, R. 2000 Predictions for the Final Equilibrium State of Flows on the Sphere
- Nieto-Ferreira, R. 1994 On the Dynamics of the Formation of Multiple Tropical Disturbances
- Lu, C. D. 1993 Balanced Dynamics for Three Dimensional Curved Flows
- Guinn, T. A. 1992 A Dynamical Theory for Hurricane Spiral Bands
- Flatau, M. 1992 The Influence of Baroclinic Processes on Tropical Cyclone Motion
- Magnusdottir, G. 1989 Generalized Semigeostrophic Theory
- Kuo, H.-C. 1987 Dynamical Modeling of Marine Boundary Layer Convection
- Fulton, S. R. 1984 Spectral Methods for Limited Area Models
- DeMaria, M. 1983 Experiments with a Spectral Tropical Cyclone Model
- Hack, J. J. 1980 The Role of Convective-Scale Processes in Tropical Cyclone Development
- Silva Dias, P. L. 1979 Dynamics of Equatorial Mass-Flow Adjustment
- M.S.**
- Slocum, C. J. 2013 Diabatic and Frictional Forcing Effects on the Structure and Intensity of Tropical Cyclones
- Gonzalez, A. O. 2011 Steady-State Circulations Forced by Diabatic Heating and Wind Stress in the Intertropical Convergence Zone
- Mora, G. 2008 Low-level Jets in the Tropical Americas
- Masarik, M. T. 2007 Potential Vorticity and Energy Aspects of the MJO Through Equatorial Wave Theory
- Silvers, L. G. 2007 The Theory of Stratified, Quasi-Balanced Flows on the Sphere
- Ellis, T. D. 2004 Evaluation of ISCCP D2 Cloud Amount Changes and their Connections to Large-Scale Dynamics
- Vigh, J. L. 2004 Forecasting of Atlantic Tropical Cyclones Using a Kilo-Member Ensemble
- Garcia, M. 1999 Simulated Tropical Convection
- Harris, K. A. 1999 The Barotropic Response of the Global Atmosphere to Large-Scale Tropical Convective Forcing

Schrumpf, B. D.	1996	Identification of Potential Aircraft Icing Regions through Multispectral Analysis of GOES-8 Imagery
Stepaniak, D. P.	1996	An Initial Value Problem Study of Free Waves on a Barotropic Vortex
Hausman, S. A.	1995	Dynamic Adjustment of Mesoscale Convective Lower-Stratospheric Outflows
Stevens, E. L.	1994	Comparison of Sounding, Profiler, Radar, and Ceilometer Data from Porto Santo Island during ASTEX
Edwards, J. P.	1994	Barotropic Instability in the Inner Core of Tropical Cyclones
Tepecik, K.	1992	Dynamics of the Tropical Atmosphere
Harding, K. W.	1991	Balanced, Potential Vorticity Dynamics in the Tropics
Mandy, N. H.	1990	A Two-Dimensional Balanced Model of Internal Frontogenesis in Geostrophic and Isentropic Coordinates
Guinn, T. A.	1989	A Modeling Study of the Cloud-Topped Marine Boundary Layer
Thompson, B. W.	1989	Tropical Cyclone Track Predictability and the Adjoint Method of Data Assimilation
Fogarty, R. M.	1989	The Invertibility Principle for a Simple Hurricane Model
Hertenstein, R. F. A.	1988	Modeling and Observations of the Atmospheric Response to Squall Lines
Alworth, B. T.	1985	The Evolution of Potential Vorticity in a Tropical Cyclone Model
Kuo, H.-C.	1983	Radiation Fields in Maritime Stratocumulus
Fulton, S. R.	1980	Geostrophic Adjustment in a Stratified Atmosphere
Eversole, R. A.	1979	Spectral Characteristics of Boundary Layer Turbulence over Irregular Terrain
Butchko, J. J.	1978	A Diagnostic Case Study of the 9 - 11 August Period During GATE
Wakefield, J. S.	1978	Numerical Simulation of Eastern North Pacific Stratocumulus
Raghunandan, S.	1978	Gradient Adjustment in an Axisymmetric Vortex
Silva Dias, P. L.	1977	Experiments with the Arakawa-Schubert Cumulus Parameterization Theory
Hack, J. J.	1977	Numerical Experiments with an Axisymmetric Tropical Cyclone Model
Steiner, E. J.	1977	Stratocumulus Convection off the South American Coast