

Curriculum Vitae

Peter S Ray

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General Information

University address: Earth, Ocean & Atmospheric Sciences
College of Arts and Sciences
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Florida State University
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Professional Preparation

2013 M.S., FLORIDA STATE UNIVERSITY. Major: Meteorology.

1973 Ph.D., FLORIDA STATE UNIVERSITY. Major: Meteorology.

Professional Experience

1985–present Professor, Earth, Ocean & Atmospheric Sci, Florida State University.

Teaching

Courses Taught

Introduction to the Atmosphere (MET1010)
Radar Meteorology (MET5411)
General Meteorology (MET2700)
Meteorology Internship (MET4945)
Cloud Physics (MET5455)
Advanced Atmosphere Physics I (MET5425)
Atmospheric Physics I (MET4420)
Doctoral Seminar (MET6930)
Master's Seminar (MET5930)

Doctoral Committee Chair

Bieringer, P. E., graduate. (2002).

Doctoral Committee Member

Ma, Y., doctoral student.

Master's Committee Chair

Lefran, D., student.

Meech, S. P., student.

Master's Committee Member

Ma, Y., student. (2013).

Research and Original Creative Work

Publications

Refereed Journal Articles

Debrunner, V., & Ray, P. S. (submitted). Discrete Time Series and the Extremes of the Power Density Spectra. *Journal of Atmospheric and Oceanic Technology*. Manuscript submitted for publication.

Bieringer, P., Ray, P. S., & Anmunzio. (in press). The Effect of Topographic Variability on Initial Conditions Sensitivity of Low-Level Wind Forecast: Part I. *Monthly Weather Review*.

Bieringer, P., Ray, P. S., & Anmunzio. (in press). The Effect of Topographic Variability on Initial Conditions Sensitivity of Low-Level Wind Forecast: Part II. *Monthly Weather Review*.

He, G., Li, G., Zou, X., & Ray, P. S. (2012). A Velocity Dealiasing Scheme for Synthetic C-Band Data from China's New Generation Weather Radar System (CINRAD). *Journal of Atmospheric and Oceanic Technology*, 29(9), 1263-1274.
doi:10.1175/JTECH-D-12-00010.1

- He, G., Li, G., Zou, X., & Ray, P. S. (2012). Applications of a Velocity Dealiasing Scheme to Data from the China New Generation Weather Radar System (CINRAD). *Weather and Forecasting*, 27(1), 218-230. doi:10.1175/WAF-D-11-00054.1
- Zou, X., Yang, S., & Ray, P. S. (2012). Impacts of Ice Clouds on GPS Radio Occultation Measurements. *Journal of the Atmospheric Sciences*, 69(12), 3670-3682. doi:10.1175/JAS-D-11-0199.1
- Zou, X., Wu, Y., & Ray, P. S. (2010). Verification of a High-Resolution Model Forecast Using Airborne Doppler Radar Analysis during the Rapid Intensification of Hurricane Guillermo. *Journal of Applied Meteorology and Climatology*, 49(4), 807-820. doi:10.1175/2009JAMC2182.1
- Bell, K., & Ray, P. (2004). North Atlantic hurricanes 1977-99: Surface hurricane-force wind radii. *Monthly Weather Review*, 132(5), 1167-1189. doi:10.1175/1520-0493(2004)132[1167:NAHSHW>2
- Ray, P., Bieringer, P., Niu, X., & Whissel, B. (2003). An improved estimate of tornado occurrence in the Central Plains of the United States. *Monthly Weather Review*, 131(5), 1026-1031. doi:10.1175/1520-0493(2003)131[1026:AIEOTO>2
- Shepherd, J., Ferrier, B., & Ray, P. (2001). Rainfall morphology in Florida convergence zones: A numerical study. *Monthly Weather Review*, 129(2), 177-197. doi:10.1175/1520-0493(2001)129[0177:RMIFCZ>2
- Cartwright, T., & Ray, P. (1999). Radar-derived estimates of latent heating in the subtropics. *Monthly Weather Review*, 127(5), 726-742. doi:10.1175/1520-0493(1999)127[0726:RDEOLH>2
- Bieringer, P., & Ray, P. (1996). A comparison of tornado warning lead times with and without NEXRAD Doppler radar. *Weather and Forecasting*, 11(1), 47-52. doi:10.1175/1520-0434(1996)011[0047:ACOTWL>2
- GIVEN, T., & RAY, P. (1994). Response of a 2-Dimensional Dual-Doppler Radar Wind Synthesis. *Journal of Atmospheric and Oceanic Technology*, 11(2), 239-255. doi:10.1175/1520-0426(1994)011[0239:ROATDD>2
- LIN, Y., RAY, P., & JOHNSON, K. (1993). Initialization of a Modeled Convective Storm using Doppler Radar Derived Fields. *Monthly Weather Review*, 121(10), 2757-2775. doi:10.1175/1520-0493(1993)121[2757:IOAMCS>2
- RAY, P., ROBINSON, A., & LIN, Y. (1991). Radar Analysis of a Tamex Frontal System. *Monthly Weather Review*, 119(11), 2519-2539. doi:10.1175/1520-0493(1991)119[2519:RAOATF>2

ZIEGLER, C., MACGORMAN, D., DYE, J., & RAY, P. (1991). A Model Evaluation of Noninductive Graupel-Ice Charging in the Early Electrification of a Mountain Thunderstorm. *Journal of Geophysical Research-Atmospheres*, 96(D7), 12833-12855. doi:10.1029/91JD01246