

Key List for Bibliography File: SHORTY,WIND
November 16, 2000

- Armijo:69** L. Armijo.
A Theory for the Determination of Wind and Precipitation Velocities with Doppler Radars.
J. Atmos. Sci., **26**, 570–573, 1969.
- Bebbington:99** D. H. O. Bebbington, M. Chandra, and R. J. Watson.
Multiple scattering effects in C-Band Polimetric Radar Observations of intense precipitation.
In *Proc.29th Radar Meteorology Conf., Montreal*, pages 908–909. Amer. Meteor. Soc., 1999.
- Boccippio:95** D. J. Boccippio.
A Diagnostic Analysis of the VVP Single-Doppler Retrieval Technique.
J. Atmos. Oceanic. Technol., **12**, 230–248, 1995.
- Browning:68** K. A. Browning and R. Wexler.
The Determination of Kinematic Properties of a Wind Field Using Doppler Radar.
J. Appl. Meteor., **7**, 105–113, 1968.
- COST75:Anderson** T. Andersson.
Tests of a method for recovering winds from a single doppler weather radar.
In *COST 75, Weather Radar Systems*, pages 333–344. Commision of the European Communities, 1994.
- COST75:Archibald** Archibald, E., M. Chandra, P. Meischner, and P. Hardaker.
Doppler spectrum width as a measure of atmospheric turbulence.
In *COST 75, Advanced Weather Radar Systems*, pages 612–624. Commision of the European Communities, 1998.
- COST75:Doelling** I. Doelling and P. Meischner.
Computational sensitivity studies and comparison with experiment for polarimetric radar parameters.
In *COST 75, Weather Radar Systems*, pages 539–550. Commission of the European Communities, 1994.
- Caillault:99** K. Caillault and Y. Lemaitre.
Retrieval of Three-Dimensional Wind Fields Corrected for the Time-Induced Advection Problem.
J. Atmos. Oceanic. Technol., **16**, 708–722, 1999.
- Caya:99** A. Caya, I. Zawadzki, F. Fabry, and S. Laroche.
Assimilation of bistatic radar network data and the near-surface index of refractivity.
In *Proc.29th Radar Meteorology Conf., Montreal*, pages 37–39. Amer. Meteor. Soc., 1999.
- Chong1:00** M. Chong and O. Bousquet.
On the application of MUSCAT to a ground-based dual-Doppler radar system.
J. Atmos. Oceanic. Technol., **xx**, xxx, 2000.

- Chong:00** M. Chong, J. Georgis, O. Bousquet, S. Cosma, V. Gouget, S. Prieur, and F. Roux.
real-time wind synthesis from doppler radar observations during the mesoscale
alpine programme experiment.
Bull. Amer. Meteor., **xx**, xx, 2000.
- Chong:00** M. Chong and S. Cosma.
A formulation of the continuity equation of MUSCAT for either flat or complex
terrain.
J. Atmos. Oceanic. Technol., **xx**, xx, 2000.
- Chong:96** M. Chong and C. Campos.
Extended Overdetermined Dual-Doppler Formalism in Synthesizing Airborne
Doppler Radar Data.
J. Atmos. Oceanic. Technol., **juni**, 581–597, 1996.
- Cifelli:96** R. Cifelli, S. A. Rutledge, D. J. Boccippio, and T. Matejka.
Horizontal Divergence and Vertical Velocity Retrievals from Doppler Radar and
Wind Profiler Observations.
J. Atmos. Oceanic. Technol., **13**, 948–966, 1996.
- Clark:80** T. L. Clark, F. I. Harris, and C. G. Mohr.
Errors in Wind Fields Derived from Multi-Doppler Radars: Random Errors and
Temporal Errors Associated with Advection and Evolution.
J. Appl. Meteor., **19**, 1273–1284, 1980.
- Cohn:95** S. A. Cohn.
Radar Measurements of Turbulent Eddy Dissipation Rate in the Troposphere: A
Comparison of Techniques.
J. Appl. Meteor., **12**, 85–95, 1995.
- Easterbrook:75** C. C. Easterbrook.
Estimating horizontal wind fields by two-dimensional curve fitting of single
Doppler radar measurements.
In *16th Radar Meteorology Conf., Houston, TX*, pages 214–219. AMS, 1975.
- Eilts:90** M. D. Eilts and S. D. Smith.
Efficient Dealiasing of Doppler Velocities Using Local Environment Constraints.
J. Atmos. Oceanic. Technol., **7**, 118–126, 1990.
- Fabry:97** F. Fabry, C. Frush, I. Zawadzki, and A. Kilambi.
On the Extraction of Near-Surface Index of Refraction Using Radar Phase Mea-
surements from Ground Targets.
J. Atmos. Oceanic. Technol., **14**, 978–987, 1997.
- Georfis:99** J.-F. Georgis and P. H. H. F. Roux.
Observation of precipitating systems over complex orography with meteorological
doppler radars : A feasibility study.
Meteorology and Atmospheric Physics, 1999.
- Hagen:1991** Hagen, M. and S. Stockinger.
Verfahren zum automatischen entfalten von dopplergeschwindigkeitsmessungen
mit einem wetterradar.
Forschungsbericht, DLR, Inst. fr Physik der Atmosphre, Oberpfaffenhofen, 1991.
- Henja:99** A. Henja and D. B. Michelson.
Improved polar to cartesian radar data transformation.

- In *Proc. 29th Radar Meteorology Conf., Montreal*, pages 252–255. Amer. Meteor. Soc., 1999.
- Hildebrand:94** H. P. Hildebrand, C. A. Walther, C. L. Frush, J. Testud, and F. Baudin. The ELDORE/ASTRAIA Airborne Doppler Weather Radar: Goals, Design, and First Field Tests. In *Proc. of the IEE*, volume **82**, pages 1873–1890, 1994.
- Houze:93** Houze, R. A. *Cloud Dynamics*. Academic Press Inc., 1993.
- Hubbert:97** J. Hubbert and V. N. Bringi. The effects of 3-Body scattering on differential reflectivity. In *Proc. 28th Radar Meteorology Conf., Austin, Texas*, pages 11–12. Amer. Meteor. Soc., 1997.
- Koscielny:82** A. Koscielny, R. J. Doviak, and R. Rabin. Statistical Consideration in the Estimation of Divergence from Single-Doppler Radar and Application to Prestorm Boundary-Layer Observation. *J. Appl. Meteor.*, **21**, 197–210, 1982.
- Laroche:94** S. Laroche and I. Zawadzki. A variational analysis method for retrieval of three-dimensional wind field from single-Doppler radar data. *J. Atmos. Sci.*, **51**, 2664–2682, 1994.
- Laroche:95** S. Laroche and I. Zawadzki. Retrievals of horizontal winds from single-Doppler Clear-air data by methods of cross correlation and variational analysis. *J. Atmos. Oceanic. Technol.*, **12**, 721–738, 1995.
- Lazarus:99** S. Lazarus, A. Shapiro, and K. Droege. Ananlysis of the Gal-Chen Single-Doppler Velocity Retrieval. *J. Atmos. Oceanic. Technol.*, **16**, 5–18, 1999.
- Lhermitte:61** M. R. Lhermitte and D. Atlas. Precipitation motion by pulse Doppler. In *Proc. 9th Weather Radar Conf., Boston*, pages 498–503. Amer. Meteor. Soc., 1961.
- Lhermitte:68** M. R. Lhermitte. New developments in Doppler radar methods. In *Proc. 13th Radar Meteorology Conf.*, pages 14–17, Amer. Meteor. Soc., Montreal, Canada, 1968.
- Liou:99** C.-Y. Liou. Single Radar Recovery of Cross-Beam Wind Components Using a Modified Moving Frame of Reference Technique. *J. Atmos. Oceanic. Technol.*, **16**, 1003–1016, 1999.
- Mewes:99** J. J. Mewes and A. Shapiro. Dual-doppler analysis using the anelastic vertical vorticity equation. In *Proc. 29th Radar Meteorology Conf., Montreal*, pages 33–36. Amer. Meteor. Soc., 1999.

- Mohr:81** C. G. Mohr, L. J. Miller, and R. L. Vaughan.
An interactive software package for the rectification of radar data to three-dimensional cartesian coordinates.
In *Preprints 20th Conf. on Radar Meteorology, Boston*, pages 690–695. Amer. Meteor. Soc., 1981.
- Navon:87** M. I. Navon and D. M. Legler.
Conjugate-Gradient Methods for Large-Scale Minimization in Meteorology.
Mon. Wea. Rev., **115**, 1479–1502, 1987.
- Orr:99** W. B. Orr and R. A. Kropfli.
A method for estimating particle fall velocities from vertically pointing Doppler radar.
J. Atmos. Oceanic. Technol., **16**, 29–37, 1999.
- Pamment:98** A. J. Pamment and B. J. Conway.
Objective Identification of Echoes Due to Anomalous Propagation in Weather Radar Data.
J. Atmos. Oceanic. Technol., **15**, 98–113, 1998.
- Persson:87** G. O. P. Persson and T. Andersson.
A real-time system for automatic single-Doppler wind field analysis.
In E. Publication, editor, *Proc. Symp. Mesoscale Analysis & Forecasting, Vancouver, Canada*, volume **SP-282**, pages 61–66, 1987.
- Powell:77** D. J. M. Powell.
Restart procedures for the conjugate-gradient method.
Math. Prog., **11**, 42–49, 1977.
- Qiu:92** J.-C. Qiu and Q. Xu.
A Simple Adjoint Method of Wind Analysis for Single-Doppler Data.
J. Atmos. Oceanic. Technol., **9**, 588–598, 1992.
- Quoetone:99** L. Quoetone and D. Sirmans.
The occurrence and impact of bistatic coupling in the WSR-88D Network.
In *Proc. 29th Radar Meteorology Conf., Montreal*, pages 242–245. Amer. Meteor. Soc., 1999.
- Riley:99** R. J. Riley.
Radar returns from insects: implications for meteorological radars.
In *Proc. 29th Radar Meteorology Conf., Montreal*, pages 390–393. Amer. Meteor. Soc., 1999.
- Rinehart:99** E. R. Rinehart.
Radar for meteorologists.
Rinehart Publications, University of North Dakota, 1999.
- Rogers:63** R. R. Rogers.
Radar measurement of velocities of meteorological scatterers.
J. Atmos. Sci., **20**, 170–174, 1963.
- Roux:96** F. Roux and F. D. Marks Jr.
Extended Velocity Track Display (EVTD): An Improved Processing method for Doppler Radar Observation of Tropical Cyclone.
J. Atmos. Oceanic. Technol., **13**, 875–899, 1996.

- Schmid:98** W. Schmid, M. Wueest, and S. Mecklenburg.
Retrieval of wind fields from single-Doppler data: error analysis and implications for operational applications.
In *COST 75, Advanced Weather Radar Systems*, pages 602–611. Commission of the European Communities, 1998.
- Schonwiese:85** D. C. Schonwiese.
Praktische Statistik fr Meteorologen und Geowissenschaftler.
Gebrder Borntraeger, Berlin, Stuttgart, 1985.
- Shapiro:99** A. Shapiro and J. J. Mewes.
New Formulations of Dual-Doppler Wind Analysis.
J. Atmos. Oceanic. Technol., **16**, 782–792, 1999.
- Smythe:83** R. G. Smythe and D. S. Zrnić.
Correlation Analysis of Doppler Radar Data and retrieval of the Horizontal Wind.
J. Climat. Appl. Meteor., **22**, 297–311, 1983.
- Sun:97** J. Sun and N. A. Crook.
Dynamical and Microphysical Retrieval from Doppler Radar Observations Using Cloud Model and Its Adjoint. Part I: Model Development and Simulated Data Experiments.
J. Atmos. Sci., **54**, 1642–1661, 1997.
- Sun:98** J. Sun and N. A. Crook.
Dynamical and Microphysical Retrieval from Doppler Radar Observations Using Cloud Model and Its Adjoint. Part II: Retrieval Experiment of an Observed Florida Convective Storm.
J. Atmos. Sci., **55**, 835–852, 1998.
- Tabary:00** P. Tabary and G. Scialom.
Real-time retrieval of the wind from aliased velocities measured by Doppler radars.
J. Atmos. Oceanic. Technol., **xx**, xx, 2000.
- Tian:96** L. Tian and R. C. Srivastava.
Measurement of Attenuation at C Band in a Convective Storm by a Dual-Radar-Method.
J. Atmos. Oceanic. Technol., **14**, 184–196, 1996.
- Tuttle:90** D. J. Tuttle and G. B. Foote.
Determination of the boundary layer airflow from a single Doppler radar.
J. Atmos. Oceanic. Technol., **7**, 218–232, 1990.
- Wilson:88** W. J. Wilson and D. Reum.
The Flare Echo: Reflectivity and Velocity Signature.
J. Atmos. Oceanic. Technol., **5**, 197–205, 1988.
- West:99** A. M. West, W. Schmid, and I. Zawadzki.
Improving single-doppler wind retrievals with secondary wind field data.
In *Proc.29th Radar Meteorology Conf., Montreal*, pages 138–141. Amer. Meteor. Soc., 1999.
- Zawadzki:73** I. Zawadzki.
Statistical Properties of Precipitation Patterns.
JAM, **12**, 459–472, 1973.