

## DAFTAR PUSTAKA

- Adewale, O.P., 2006, Rain rate and Rain Drop Size Distribution Models for Line-Of-Sight Millimetric System in South Africa, *Thesis*, University of Kwazulu, Natal.
- Atlas, D., Srivastava, R.C. dan Sekhon, R.S., 1973, Dopler Radar Characteristics of Precipitation at Vertical Incidence, *Reviews of Geophysics and Space Physics*, Vol. 11, No. 1, hal. 1-35.
- Chandra, R., Marzuki, Vonnisa, M., Hashiguchi, H., 2015, Perbandingan Variasi Diurnal Distribusi Ukuran Butiran Hujan di Padang dan Kototabang, Prosiding Seminar Nasional Fisika Universitas Andalas (SNFUA), hal. 158-163.
- Coppens, D. dan Haddad, Z.S., 2000, Effect of Raindrop Size Distribution Variations on Microwave Brightness Temperature Calculation, *Journal of Geophysical Research*, Vol. 105, No. 19, hal. 483-489.
- Cifelli, R., Williams, C.R., Rajopadhyaya, D.K., Avery, S.K., Gage, K.S., dan May, P.T., 2000, Drop-Size Distribution Characteristics in Tropical Mesoscale Convective Systems. *Journal of Applied Meteorology*, Vol. 39, hal. 760-777.
- Currier, P.E., Avery, S.K., Balsley, B.B., dan Gage, K. S., 1992, Combined use of 50 Mhz and 915 Mhz Wind Profilers in the Estimation of Raindrop Size Distribution, *Geophysical Research Letter*, Vol. 19, hal. 1017-1020.
- Das, S., Maitra, A. dan Shukla, A. K., 2010, Rain Attenuation Modeling In The 10-100 Ghz Frequency Using Drop Size Distributins for Different Climatic Zones in Tropical India, *Journal Progress in Electromagnetics Research B*, Vol. 25, hal. 211-224.
- Das, S. dan Maitra, A., 2016, Vertical Profile of Rain : Ka Band Radar Observations at Tropical Locations, *Journal of Hydrology*, Vol. 534, hal. 31-41.
- Edde, B., 1993, *Radar Principles, Technology, Applications*, Prentice-Hall, Mexico.

- Feingold, G. dan Levin, Z., 1986, The Lognormal Fit to Raindrop Spectra from Frontal Convective Clouds in Israel, *Journal of Climate and Applied Meteorology*, Vol. 25, hal. 1346-1363.
- Fukao, S., Wakasugi, K., Sato, T., Morimoto, S., Tsuda, T., Hirota, I., Kimura, I., dan Kato, S., 1985, Direct Measurement of Air and Precipitation Particle Motion by VHF Doppler Radar, *Nature*, Vol. 316, hal. 712-714.
- Gossard, E. E., 1998, Measuring Drop-Size Distribution in Cloud with a Clear-Air-Sensing Doppler Radar, *Journal of Atmospheric and Oceanic Technology*, Vol. 5, hal. 640-649.
- Gunn, R. dan Kinzer, G.D., 1949, The Terminal Velocity of Fall for Water Droplets in Stagnant Air, *Journal of Meteorology*, Vol. 6, hal. 243-248.
- Jameson, A.R. dan Kostinski, A.B., 2001, What is a Raindrop Size Distribution, *Bulletin of American Meteorological Society*, Vol. 82, No.6, hal. 1169-1177.
- Joss, J. dan Waldvogel, A., 1969, Raindrop Size Distribution and Sampling Size Errors, *Journal of the Atmospheric Science*, Vol. 26, hal. 566-569.
- Hosking, J. R. M. dan Wallis, J. R., 1997, *Regional Frequency Analysis: An Approach Based on L-Moments*, Cambridge University Press, United Stated America.
- Kruger, A. dan Krajewski, W.F., 2002, Two-dimensional Video Disdrometer: A Description, *Journal of Atmospheric and Oceanic Technology*, Vol. 19, hal. 602-617.
- Kozu, T. dan Nakamura, K., 1991, Rainfall Parameter Estimation from Dual-Radar Measurements Combining Reflectivity Profile and Path-Integrated Attenuation, *Journal of Atmospheric and Oceanic Technology*, Vol. 8, hal. 259 – 271.
- Kozu, T., Shimomai, T., Akramin, Z., Marzuki, Shibagaki, Y. dan Hashiguchi, H., 2005, Intraseasonal Variation of Raindrop Size Distribution at Koto Tabang, West Sumatra, Indonesia, *Geophysical Research Letter*, Vol. 32, L07803, doi: 10.1029/2004GL022340.

Kozu, T., Reddy, K., Mori, S., Thurai, M., Ong, J.T., Rao, D.N. dan Shimomai, T., 2006, Seasonal and Diurnal Variations of Raindrop Size Distribution in Asian Monsoon Region, *Journal of the Meteorological Society of Japan*, Vol. 84A, hal. 195-209.

Lakitan, B., 1994, *Dasar-dasar Klimatologi*, Raja Grafindo Persada, Jakarta.

Laws, J.O. dan Parsons, D.A., 1943, The Relation of Raindrop Size to Intensity, *Transactions American Geophysics Union*, Vol. 24, hal. 452-460.

Levin, L. M., 1954, On the size distribution function for cloud droplets and rain drops, *Dokladi Academy Nauk SSSR*, Vol. 94, hal. 1045-1053.

Liu, G. dan Fu, Y., 2001, The Characteristics of Tropical Precipitation Profiles as Inferred from Satellite Radar Measurements, *Journal of the Meteorological Society of Japan*, Vol. 79, No. 1, hal 131-143.

Loffler-Mang, M. dan Joss J., 2000, An Optical Disdrometer for Measuring Size and Velocity of Hydrometeors, *Journal of Atmospheric and Oceanic Technology*, Vol. 17, hal. 130 – 139.

Magagi, R. dan Barros, A.P., 2004, Estimation of Latent Heating of Rainfall during the Onset of the Indian Monsoon using TRMM PR and Radiosonde Data, *Journal of Applied Meteorology*, Vol. 43, hal. 328-349.

Maitra, A. dan Gibbins, C.J., 1995, Inference of Raindrop Size Distribution from Measurement of Rainfall Rate and Attenuation at Infrared Wavelengths, *Journal Radio Science*, Vol. 30, hal. 931 – 941.

Mallet, C. dan Barthes, L., 2009, Estimation of Gamma Raindrop Size Distribution Parameters: Statistical Flunctuations and Estimation Errors, *Journal Atmospheric and Oceanic Technology*, Vol. 26, hal. 1572-1584.

Marshall, J.S. dan Palmer, W.M., 1948, The Distribution of Raindrops with Size, *Journal of Meteorology*, Vol. 5, hal. 165-166.

Marzuki, M., Kozu, T., Shimonai, T., Randeu, W.L., Hashiguchi, H. Dan Shibagaki, Y., 2009, Diurnal Variation of Rain Attenuation Obtained from Measurement of Raindrop Size Distribution in Equatorial Indonesia, *IEEE Transaction on Antennas and Propagation*, Vol. 57, No. 4, hal. 1191-1196.

Marzuki, M., Kozu, T., Shimomai, T., Hashiguchi, H., Randeu, W. L. dan Vonnisa, M., 2010, Raindrop Size Distribution of Convective Rain over Equatorial Indonesia During the First CPEA Campaign, *Atmospheric Research*, Vol. 96 hal. 645 – 655.

Marzuki, M., Hashiguchi, H., Yamamoto, M.K., Mori, S. dan Yamanaka, M.D., 2013a, Regional Variability of Raindrop Size Distribution over Indonesia, *Annales Geophysicae*, Vol. 31, hal. 1941-1948.

Marzuki, M., Randeu, W.L., Kozu, T., Hashiguchi, H. dan Schonhuber M, 2013b, Raindrop Axis Ratio, Fall Velocities and Size Distribution over Sumatra from 2D – Video Disdrometer Measurement, *Atmospheric Research*, Vol. 119, hal. 23-37.

McKauge, D., Evans, K.F. dan Avery, S. K., 1998, Assessment of the Effects of Drop Size Distribution Variations Retrieved from UHF Radar on Passive Microwave Remote Sensing of Precipitation, *Journal of Applied Meteorology*, Vol. 37, hal. 155-165.

Nystuen, J. A., John, R. P., Peter, G. B., dan John, C. W., 1996, A Comparison of Automatic Rain Gauges, *Journal of Atmospheric and Oceanic Technology*, Vol. 13, hal. 62 – 73.

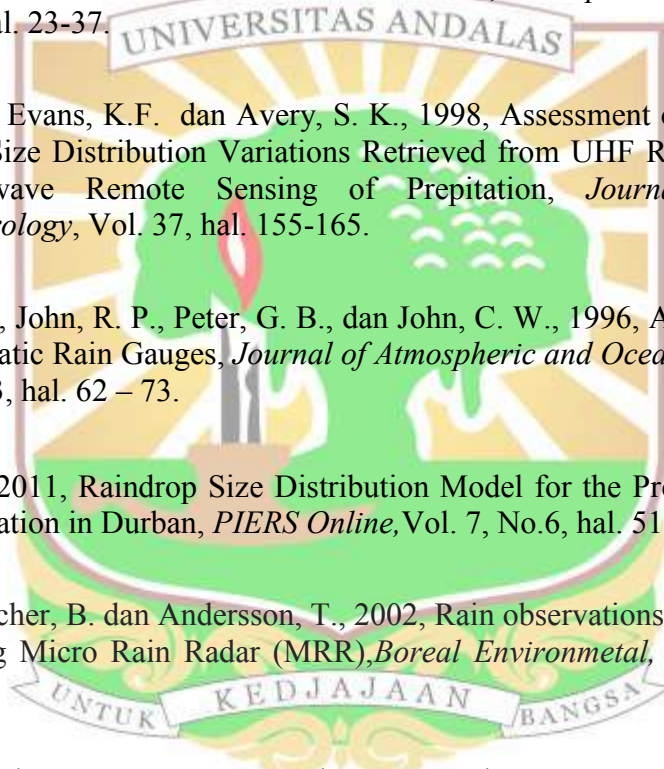
Owolawi, P., 2011, Raindrop Size Distribution Model for the Prediction of Rain Attenuation in Durban, *PIERS Online*, Vol. 7, No.6, hal. 516– 523.

Peters, G., Fischer, B. dan Andersson, T., 2002, Rain observations with avertically looking Micro Rain Radar (MRR), *Boreal Environmetal*, Vol.7,hal. 353– 362.

Peters, G., Fischer, B., Munster, H., Clemens, M. dan Wagner, A., 2005, Profiles of raindrop size distributions as retrieved by Micro Rain Radars, *Journal of Applied Meteorology*, Vol. 44, hal. 1930–1949.

Rajopadhyaya, D.K., May, P.T. dan Vincent, R.A., 1993, A General Approach to the Retrieval of Raindrop Size Distribution from VHF Wind Profiler Doppler Spectra : Modeling result. *Journal of Atmospheric and Oceanic Technology*, Vol. 10, hal. 710-717.

Rogers, R.R. dan Yau, M.K., 1996, *A short Cours in Cloud Physics*, Edisi ketiga, Butterworth Heineman, Burlington, MA.



Rosenfeld, D. dan Ulbrich, C.W., 2003, Cloud Microphysical Properties, Processes, and Rainfall Estimation Opportunities, *Meteorological Monographs*, Vol. 52, hal. 237-258.

Sekhon, R.S. dan Srivastava, R.C., 1971, Doppler Radar Observation of Drop-size Distributions in a Thunderstorm, *Journal of the Atmospheric Science*, Vol. 28, hal. 983-994.

Sheppard, B.E. dan Joe, P.I., 2008, Performance of the Precipitation Occurrence Sensor System as a Precipitation Gauge, *Journal of Atmospheric and Technology*, Vol. 25, hal. 196-212.

Spilhaus, A.F., 1948, Drop Size, Intensity and Radar Echo of Rain, *Journal of Meteorology*, Vol. 5, hal. 161-164.

Takahashi, T., Yamaguchi, N. dan Kawano, T., 2001, Videosonde Observation of Torrential Rain During Baiu Season, *Journal of Atmospheric Research*, Vol.58, hal. 205-228.

Testud, J. dan Oury, S., 2000, The Concept of “ Normalized” Distribution to Describe Raindrop Spectra: A Tool for Cloud Physics and Cloud Remote Sensing, *Journal of Applied Meteorology*, Vol. 40, hal. 1118-1140.

Tokay, A. dan Short, D.A., 1996, Evidence from Tropical Raindrop Spectra of the Origin of Rain from Stratiform Versus Convective Clouds, *Journal Applied Meteorology*, Vol. 35, hal 355– 371.

Tokay, A., Hartmann, P., Battaglia, A., Gage, K.S., Clark, W.L., Williams, C.R., 2009, A Field Study of Reflectivity and Z–R Relations Using Vertically Pointing Radars and Disdrometers, *Journal of Atmospheric and Oceanic Technology*, Vol. 26, hal. 1120-1134.

Uijlenhoet, R., 2001, Raindrop Size Distributions and Radar Reflectivity - Rain Rate Relationships for Radar Hydrology, *Hydrology and Earth System Sciences*, Vol. 5, hal. 615– 628.

Ulaby, F.T., Moore, R.K. dan Dobson, M.C., 1983, Effects of Vegetation Cover on the Microwave Radiometric Sensitivity to Soil Moisture, *IEEE Transaction Geoscience Remote Sensing*, Vol. 21, hal. 21-61.

Ulbrich, C.W., 1983, Natural Variation in the Analytical Form of the Raindrop Size Distribution, *Journal of Climate and Applied Meteorology*, Vol. 22, hal. 1764-1775.

Vonnisa, M., Koza, T. dan Shimonai, T., 2014, Pengembangan Metode Dual-Frekuensi untuk Mengamati Struktur Vertikal *Raindrop Size Distribution* (DSD) di Kototabang, *Jurnal Ilmu Fisika*, Vol. 6, hal. 52-58.

Wakasugi, K., Mizutani, A., Matsuo, M., Fukao, S. dan Kato, S., 1986, A Direct Method for Deriving Drop-size Distribution and Vertical Air Velocities from VHF Doppler Radar Spectra, *Journal of Atmospheric and Oceanic Technology*, Vol. 3, Hal. 623-629.

Williams, C.R., Ecklund, W.L., dan Gage, K.S., 1995, Classification of precipitating clouds in the tropics using 915 MHz wind profilers, *Journal of Atmospheric and Oceanic Technology*, Vol. 12, hal. 996-1012.

[http://en.wikipedia.org/wiki/Drop\\_\(liquid\)](http://en.wikipedia.org/wiki/Drop_(liquid)). Dikutip tanggal 5 Maret 2016 pukul 21:35.

