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Marshall–Palmer relation

The Z–R relationship developed by J. S. Marshall and W. M. Palmer (1948) consistent with an exponential drop-size distribution.

The relationship is $Z = 200R^{1.6}$, where Z (mm^6 m^{-3}) is the reflectivity factor and R (mm h^{-1}) is the rainfall rate. The relationship is sometimes generalized to the form $Z = aR^b$, where a and b are adjustable parameters.

Marshall, J. S., and W. McK. Palmer, 1948: The distribution of raindrops with size. *J. Meteor.*, **5**, 165–166.

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Categories: Term │ Terms M

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