

APPLICATION OF HUMIDITY CORRECTIONS TO ARM RADIOSONDE DATA

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ABSTRACT

This poster describes the application of the Miloshevich humidity correction to ARM Radiosonde Data. Using the methods described in Miloshevich et.al. (2004), development has concluded on the application of time-lag corrections to the relative humidity of the RS-80 Vaisala Radiosondes. Work has begun on correcting the RS-92 Radiosondes using the procedures of Miloshevich et.al. (in press). It is anticipated that radiosonde datastreams that incorporate these corrections will be added to the Archive, and then used in a second version of the Merged Sounding value-added product (VAP). The poster also lists the years of Merged Sounding available at each ARM Climate Research Facility (ACRF) site. Miloshevich, LM, A Paukkunen, H Vomel, and SJ Oltmans. 2004. "Development and validation of a time-lag correction for Vaisala radiosonde humidity measurements." *Journal of Atmospheric and Oceanic Technology* 21, 1305-1327. Miloshevich, LM, H Vomel, DN Whiteman, and T Leblanc. 2008. "Accuracy assessment and correction of Vaisala RS92 radiosonde water vapor measurement." *Journal of Geophysical Research*, submitted.

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