

Variable	Est. 95% Uncertainty	Information Source
Downwelling Total SW	6% or 10 Wm ⁻²	Stoffel, 2005, ARM-TR
Downwelling Diffuse SW	3% or 4 Wm ⁻²	Stoffel, 2005, ARM-TR
Downwelling Direct SW	6% or 20 Wm ⁻²	Stoffel, 2005, ARM-TR
Clear-sky Total, Diffuse, Direct SW	RMSE(2X Meas. Uncert.)	Long and Ackerman, 2000
Upwelling SW	6% or 10 Wm ⁻²	Stoffel, 2005, ARM-TR
Clear-sky Upwelling SW	RMSE(2X Meas. Uncert.)	Long, 2005
Downwelling LW	2.5% or 4 Wm ⁻²	Stoffel, 2005, ARM-TR
Clear-sky Downwelling LW	4-5 Wm ⁻²	Long and Turner, 2008
Upwelling LW	2.5% or 4 Wm ⁻²	Stoffel, 2005, ARM-TR
Daylight Fractional Sky Cover	<10%	Long et al., 2006
LW Effective Sky Cover	1-2 Oktas	Durr and Philipona, 2004
Cloud Visible Optical Depth	10%	Barnard & Long, 2004; Barnard et al., 2008
Effective Cloud Transmissivity	<4%	Long et al., 2002