

Parameter	Symbol	Values	Source/reference
Dust depolarization ratio	δ_d	$31 \pm 4 \%$	Freudenthaler et al. (2009)
Non-dust depolarization ratio	δ_{nd}	$5 \pm 1 \%$	Ansmann et al. (2011)
Dust lidar ratio	S_d	$47 \pm 10 \text{ sr}$	Raman measurements, this study
Non-dust lidar ratio	S_{nd}	$60 \pm 10 \text{ sr}$	Mamouri and Ansmann (2014)
Dust particle density	ρ_d	$2.6 \pm 0.6 \text{ g cm}^{-3}$	Hess et al. (1998)
Dust conversion factor (15 April 2016)	$\overline{v_c/\tau_c}$	$0.67 \pm 0.05 \times 10^{-6}$	Sun photometer, this study
Non-dust conversion factor (15 April 2016)	$\overline{v_f/\tau_f}$	$0.24 \pm 0.018 \times 10^{-6}$	Sun photometer, this study
Dust conversion factor (22 April 2016)	$\overline{v_c/\tau_c}$	$0.81 \pm 0.04 \times 10^{-6}$	Sun photometer, this study
Non-dust conversion factor (22 April 2016)	$\overline{v_f/\tau_f}$	$0.14 \pm 0.019 \times 10^{-6}$	Sun photometer, this study