

Description	Acronym	Symbol	Units
Black carbon	BC		
Brown carbon	BrC		
Equivalent black carbon	BC <sub>e</sub>		
Refractory black carbon	rBC		
Organic carbon	OC		
Organic aerosol	OA		
Light-absorbing carbonaceous matter	LAC		
$\Delta\text{BC} / \Delta\text{CO}$ enhancement ratio	ER <sub>BC</sub>		
Attenuation coefficient	ATN	$\sigma_{\text{ATN}}$	$\text{m}^{-1}$
Absorption coefficient		$\sigma_{\text{ap}}$	$\text{m}^{-1}$
Scattering coefficient		$\sigma_{\text{sp}}$	$\text{m}^{-1}$
Absorption Ångström exponent	AAE	$\hat{a}_{\text{abs}}$	
Scattering Ångström exponent	SAE	$\hat{a}_{\text{sca}}$	
Wavelength dependence of $\hat{a}_{\text{abs}}$	WDA		
Mass attenuation cross section		$\alpha_{\text{atn}}$	$\text{m}^2 \text{g}^{-1}$
(BC) Mass absorption cross section	MAC	$\alpha_{\text{abs}}$	$\text{m}^2 \text{g}^{-1}$
Backscattering coefficient		$\sigma_{\text{bsp}}$	$\text{m}^{-1}$
Single scattering albedo	SSA	$\omega_0$	
Aerosol optical depth	AOD		
Condensation nuclei number concentration (> 10 nm)		$N_{\text{CN}}$	$\text{cm}^{-3}$
Accumulation mode particle number concentration (100–430 nm)		$N_{\text{acc}}$	$\text{cm}^{-3}$
Precipitation at ATTO region of interest (ROI), Fig. 1a		$P_{\text{ATTO}}$	mm
Equivalent potential temperature		$\theta_e$	K
Amazon Tall Tower Observatory	ATTO		
Backward trajectory	BT		
Long-range transport	LRT		
El Niño–Southern Oscillation	ENSO		
Oceanic Niño Index	ONI		
Biomass burning	BB		
Fossil fuel	FF		
Coordinated universal time	UTC		
Local time	LT		
Inter-quartile range	IQR		
Domain of interest, Fig. 2a	DOI		