

Acronym	Description
ACC	Accumulation mode
ADE	Aerosol direct effect
a.g.l.	Above ground layer
AI	Atlantic inflow
AIE	Aerosol indirect effect
AIT	Aitken mode
ALWC	Aerosol liquid water content
AOD	Aerosol optical depth
a.s.l.	Above sea level
CDNC	Cloud droplet number concentration
COARSE	Coarse mode
COSMO-ART	Consortium for Small-scale Modeling – Aerosol and Reactive Trace gases
DACCIWA	Dynamics–aerosol–chemistry–cloud interactions in West Africa
DWD	Deutscher Wetterdienst (German Weather Service)
ECDF	Empirical cumulative distribution function
GF	Growth factor
GRAALS	General radiative algorithm adapted to linear-type solutions radiation scheme
HaChi	Haze in China campaign
ICA	In-cloud area
ICON	Icosahedral nonhydrostatic model
NLLS	Nocturnal low-level stratus
No-ALWC	Model realization neglecting ALWC in the radiation calculation
OCA	Off-cloud area
PBL	Planetary boundary layer
POA	Primary organic aerosol
Reference	Reference case model realization considering ALWC in the radiation calculation
RH	Relative humidity
SCT	Stratus-to-cumulus transition
SLR	Surface longwave (net) radiation
SOA	Secondary organic aerosol
SSR	Surface shortwave (net) radiation
SST	Sea surface temperature
SWA	Southern West Africa
VBS	Volatility basic set
WAM	West African monsoon