

Aerosol type	Sources	Temporal resolution
Dust	Wind-driven emissions with Ginoux et al. (2001) static topographic depression map	Model
Sea salt	Wind-driven emissions	Model
Biogenic terpene	Guenther et al. (1995)	Monthly mean climatology
Dimethyl sulfide (DMS)	Lana et al. (2011)	Monthly mean climatology
Biomass burning (SO ₂ , OC, BC)	GBBEPx (Zhang et al., 2014)	Daily varying
Anthropogenic SO ₂	EDGAR V4.1 (Janssens-Maenhout, 2010)	Monthly varying
Anthropogenic SO ₄ , POM and BC	AeroCom Phase II (HCA0 v1, Diehl et al., 2012)	Annually varying
International ships SO ₂	EDGAR V4.1 (Janssens-Maenhout, 2010)	Annually varying
International ships SO ₄ , POM, and BC	AeroCom Phase II (HCA0 v1; Diehl et al., 2012)	Annually varying
Aircraft SO ₂	AeroCom Phase II (HCA0 v1; Diehl et al., 2012)	Monthly varying