

Volcanic database	VolcDB1	VolcDB2	VolcDB3	VolcDB4	VolcDBSUB	VolcDB1_3D
Covering period	Dec 1997– Apr 2012	Jan 1990– Dec 2014	1978–2014	1979–2010		Dec 1997– Apr 2012
Observational data sets	MIPAS, GOMOS, SAGEII, TOMS, OMI	OMI, OMPS, IASI, TOMS, GOME/2, AIRS, MLS, MIPAS	TOMS, HIRS/2, AIRS, OMI, MLS, IASI, and OMPS	TOMS, OMI		MIPAS, GOMOS, SAGEII, TOMS, OMI
Reference	Brühl et al. (2018), Bingen et al. (2017) ^a	Mills et al. (2016), Neely and Schmidt (2016) ^b	Carn et al. (2016) ^c	Diehl et al. (2012), AeroCom-II HCA0 v1/v2 ^d	Subset of eight volcanoes; contains SO ₂ emissions and plume altitudes averaged over the three mandatory databases; details are given in the Appendix (Table S6) ^e	3-D netCDF Brühl (2018), Bingen et al. (2017) ^f