

Source term	Synthetic	2010 Eyjafjallajökull	2011 Cerdón Caulle
Run duration	12 h	96 h	72 h
Vertical distribution of mass in the column	Suzuki (1983) distribution ($A = 4, L = 5$)	Suzuki (1983) distribution ($A = 4, L = 5$)	Suzuki (1983) distribution ($A = 4, L = 5$)
Mass eruption rate (MER)	Mastin et al. (2009)	Degruyter and Bonadonna (2012) (Fig. 5b)	Degruyter and Bonadonna (2012) (Fig. 10a)
Column height (above vent)	8500 m	Fig. 5c	Fig. 10b
TGSD	1 bin ($\Phi = 6; \rho = 1933 \text{ kg m}^{-3}; \text{sphericity} = 0.9$)	Bonadonna et al. (2011)	Bonadonna et al. (2015b)
Sedimentation model	Ganser (1993)	Ganser (1993)	Ganser (1993)