

Study	Lidar ratio			Depolarization ratio		
	355 nm	532 nm	1064 nm	355 nm	532 nm	1064 nm
Stratosphere, Canadian smoke						
This study, aged	40 ± 16 sr	66 ± 12 sr	92 ± 27 sr	0.224 ± 0.015	0.184 ± 0.006	0.043 ± 0.007
Hu et al. (2018), aged	31–45 sr	54–58 sr	–	0.23–0.28	0.18–0.20	0.04–0.05
Burton et al. (2015), aged	–	–	–	0.203 ± 0.036	0.093 ± 0.015	0.018 ± 0.002
Troposphere, Canadian and Siberian smoke						
Wandinger et al. (2002) and Fiebig et al. (2002), aged	40–70 sr	40–80 sr	–	–	0.06–0.11	–
Murayama et al. (2004), aged	40 sr	65 sr	–	–	0.06	–
Müller et al. (2005), aged	30–55 sr	40–60 sr	–	–	–	–
Veselovskii et al. (2015), fresh	65–90 sr	65–80 sr	–	–	–	–
Ortiz-Amezcuca et al. (2017), aged	23–34 sr	47–58 sr	–	–	0.02–0.08	–
Janicka et al. (2017), aged	60 ± 20 sr	100 ± 30 sr	–	0.01–0.05	0.02–0.04	–
This study, aged	46 ± 6 sr	67 ± 4 sr	82 ± 22 sr	0.021 ± 0.040	0.029 ± 0.015	0.009 ± 0.008
Troposphere, European smoke						
Alados-Arboledas et al. (2011)	60–65 sr	60–65 sr	–	–	–	–
Nicolae et al. (2013)	73 ± 12 sr	46 ± 6 sr	–	–	–	–
Nicolae et al. (2013), aged	40 ± 16 sr	54 ± 10	–	–	–	–
Pereira et al. (2014)	56 ± 6 sr	56 ± 6 sr	–	–	0.05 ± 0.01	–
Troposphere, Amazonian smoke						
Baars et al. (2012), aged	62 ± 12 sr	64 ± 15 sr	–	0.025 ± 0.01	–	–
Troposphere, African smoke						
Tesche et al. (2011)	87 ± 17 sr	79 ± 17 sr	–	–	–	–
Giannakaki et al. (2015)	89 ± 20 sr	83 ± 23 sr	–	–	–	–