

Aerosol case and date	Time (UTC)	$S_a$ (sr)	AERONET data		POLIPHON retrieval <sup>a</sup>	Linear depolarization ratio for each aerosol component <sup>b</sup>			
			AOD	AEx		$\delta_1$	$\delta_2$	$\delta_3$	Reference
Dust 5 July 2016	02:00	50 (10)	0.33 (0.01)	0.5 (0.03)	POL-1	0.31 (DD)	0.05 (ND)	–	Tesche et al. (2011); Ansmann et al. (2012); Mamouri and Ansmann (2014)
	16:00	29 (6)	0.25 (0.01)	1.70 (0.01)	POL-2	0.39 (Dc)	0.16 (Df)	0.05 (ND)	
Smoke 23 May 2016	06:00	81 (16)	0.14 (0.02)	1.30 (0.24)	POL-1	0.15 (SM)	0.05 (BA)	–	Groß et al. (2013)
	14:00	45 (9)	0.16 (0.01)	0.72 (0.05)					
Pollen 23 March 2016	10:00	98 (20)	0.12 (0.01)	0.75 (0.02)	POL-1	0.40 (PL)	0.05 (BA)	–	Sicard et al. (2016)
	15:00	39 (8)	0.10 (0.01)	1.74 (0.03)					