| Parameter | Symbol[*] | Relative uncertainty (%) | References |
|---|---|---|---|
| Particle backscatter coefficient ($km^{-1}\,sr^{-1}$) | $\beta_p$ | 5–20 (n), 10–30 (d) | Rocadenbosch et al. (2012) |
| Particle extinction coefficient ($km^{-1}$) | $\sigma_p$ | 10–30 (n), 15–40 (d) | Derived from the errors in $\beta_p$ and LR |
| Lidar ratio (sr) | LR | 5–10 | Derived from KF algorithm |
| Particle linear depolarization ratio | $\delta_p$ | 10–60 | Rodríguez-Gómez et al. (2017) |
| Volume linear depolarization ratio | $\delta^V$ | 10–50 | Derived from the errors in both $P^{||}$ and $P^{\perp}$ |
| Total mass concentration ($g\,m^{-3}$) | TMC | 10–40 | Derived from the error in AOD ($= \sum_z \sigma_p(z)$), mainly |