Vertical profiles taken with ALADINA during DACCIWA on 14 July 2016

(a) Altitude (m a.g.l.)

(b) Altitude (m a.g.l.)

Potential temperature (K)  Water vapour mixing ratio (g kg\(^{-1}\))  Black carbon mass conc. (µg m\(^{-3}\))  Wind direction (°)  Wind speed (m s\(^{-1}\))

06:15 UTC  06:55 UTC  07:27 UTC  11:07 UTC  12:11 UTC  17:16 UTC  17:46 UTC

Residual layer  Low-level jet

Low-level jet

Residual layer