Aerosol and water-vapour profiling with multi-wavelength IPRAL Raman lidar

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IPRAL System

IPRAL Quality Assurance

Dust case 12 to 14 June 2017

Water vapour mixing ratio

Biomass Burning aerosols 21/06/2017

Hysplit Back Trajectories

↑ Retrieved intensive aerosol properties (LR~40sr & AE~0) in the lofted layer are in agreement with the literature values of Saharan dust

↑ Retrieved intensive aerosol properties (LR~60sr & LR532~75sr, AE~1.5) in the layer between and 5 km are in agreement with the literature values of Biomass burning aerosols

← Backward trajectories indicate that the origin of the air masses came from Saharan desert and central of Portugal where FIRMS locates forest fires