

Impact of Biogenic versus Anthropogenic emissions on Clouds and Climate: towards a Holistic UnderStanding (BACCHUS)

mCERES: multi-dimensional Cloud-aERosol Exploratory Study *Centre National de Recherches Météorologiques contribution to BACCHUS*

Objectives:

- Deploy unmanned aerial systems (UAS) to access vertical dimension and complement ground-based observations
- Relate in-situ measurements to ground-based and remote sensing observations
- Evaluate aerosol-cloud interactions in climatologically contrasting environments

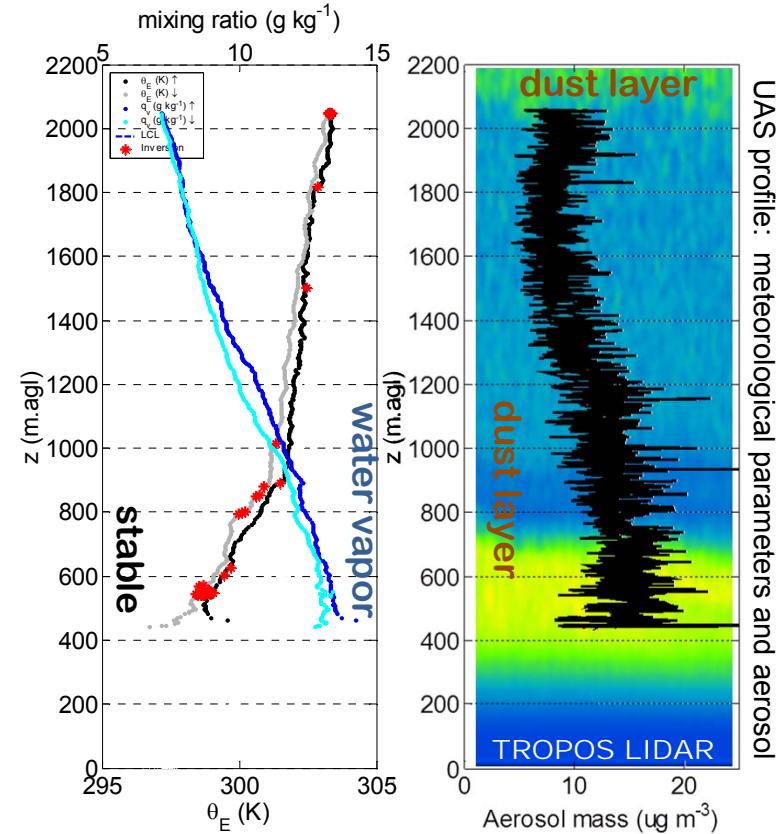
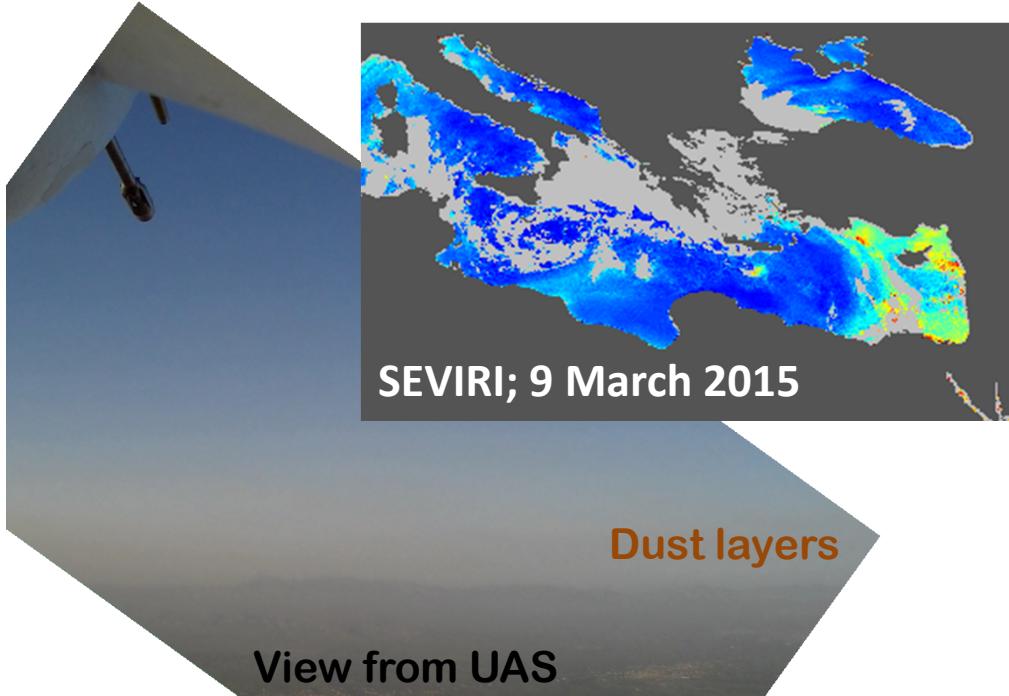


EU FP7
www.bacchus-env.eu/



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Snapshot (dust event)



- 44 research flights (33 hours; 5 – 30 March)
- Most flights coordinated with satellite overpasses
- Vertical profiles on March 9 show multiple dust layers
- UAS profiles at Agia Marina compare well with lidar observations in Nicosia

