

eVe polarization lidar on the Joint Aeolus Tropical Atlantic Campaign 2021 -

First results of Aeolus L2A products validation

Paschou P.^{1,2*}, Siomos N.^{1,2}, Marinou E.^{1,2}, Gkikas A.¹, Georgouassis G.³, von Bismarck J.⁴, Fehr T.⁵ and Amiridis V.¹



¹ IAASARS National Observatory of Athens, Athens, Greece

² Aristotle University of Thessaloniki, Greece

³ Raymetrics S.A., Greece

⁴ Earth Observation Ground Segment Department, ESA / ESRIN, Italy

⁵ Earth Observation Programmes Directorate, ESA / ESTEC, Netherlands

* Corresponding author email: pepaschou@noa.gr

The Campaign:

Joint Aeolus Tropical Atlantic Campaign (JATAC). ASKOS is the ground-based component of JATAC

Why:

To validate the Aeolus L2A products

When:

July and September 2021 (ASKOS/JATAC)

Where:

Ocean Science Centre Mindelo (OSCM), Mindelo, Cape Verde

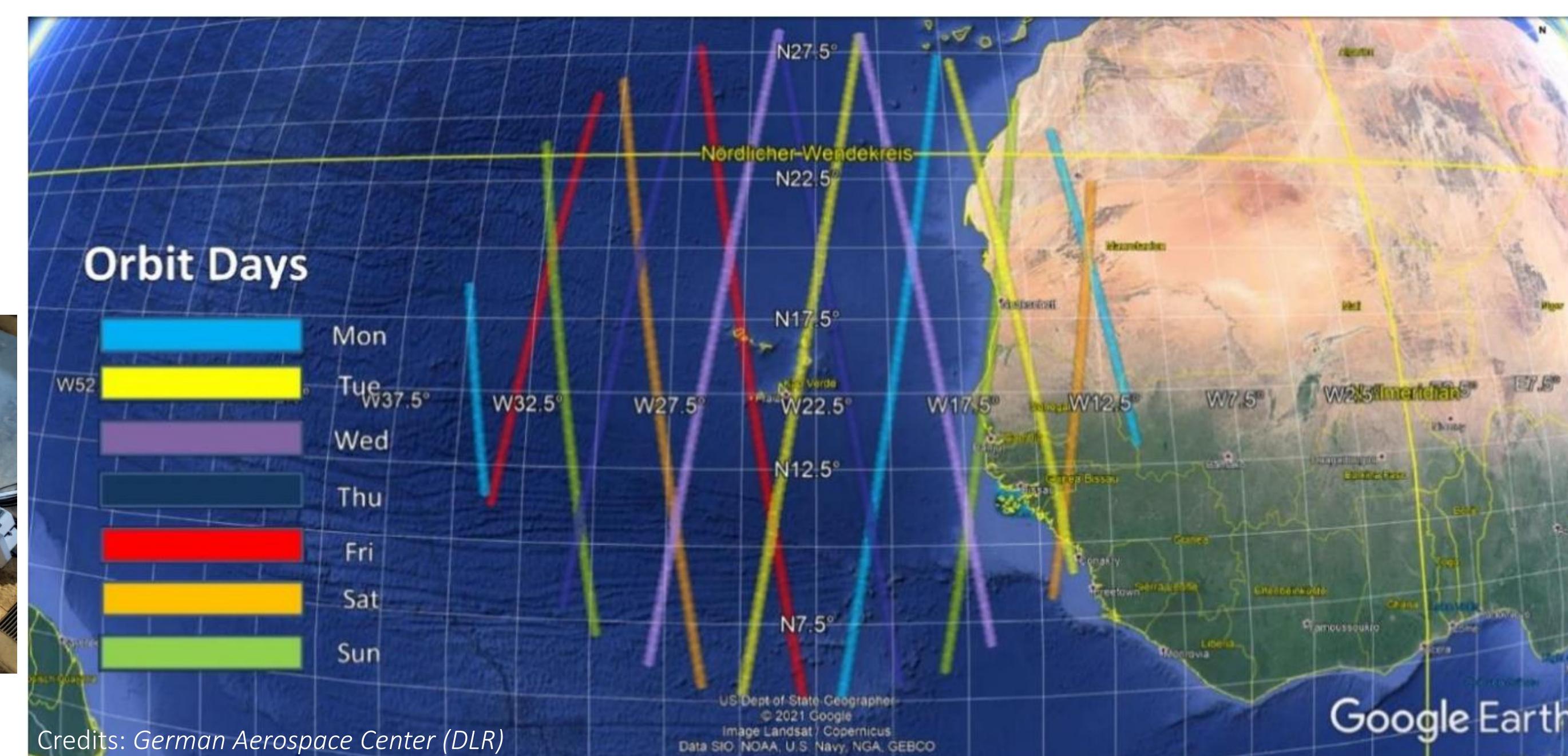
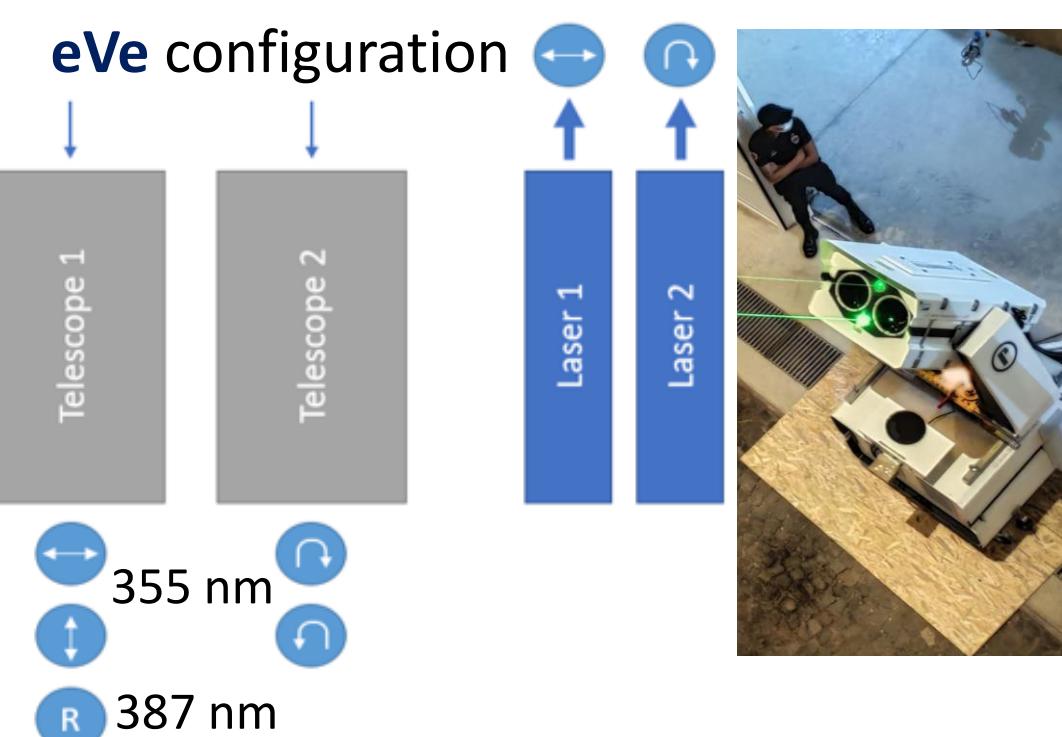
The ground-based lidar: eVe lidar

- a combined linear/circular polarization lidar system with Raman capabilities
- the ESA's ground reference system for the Aeolus L2A Cal/Val.

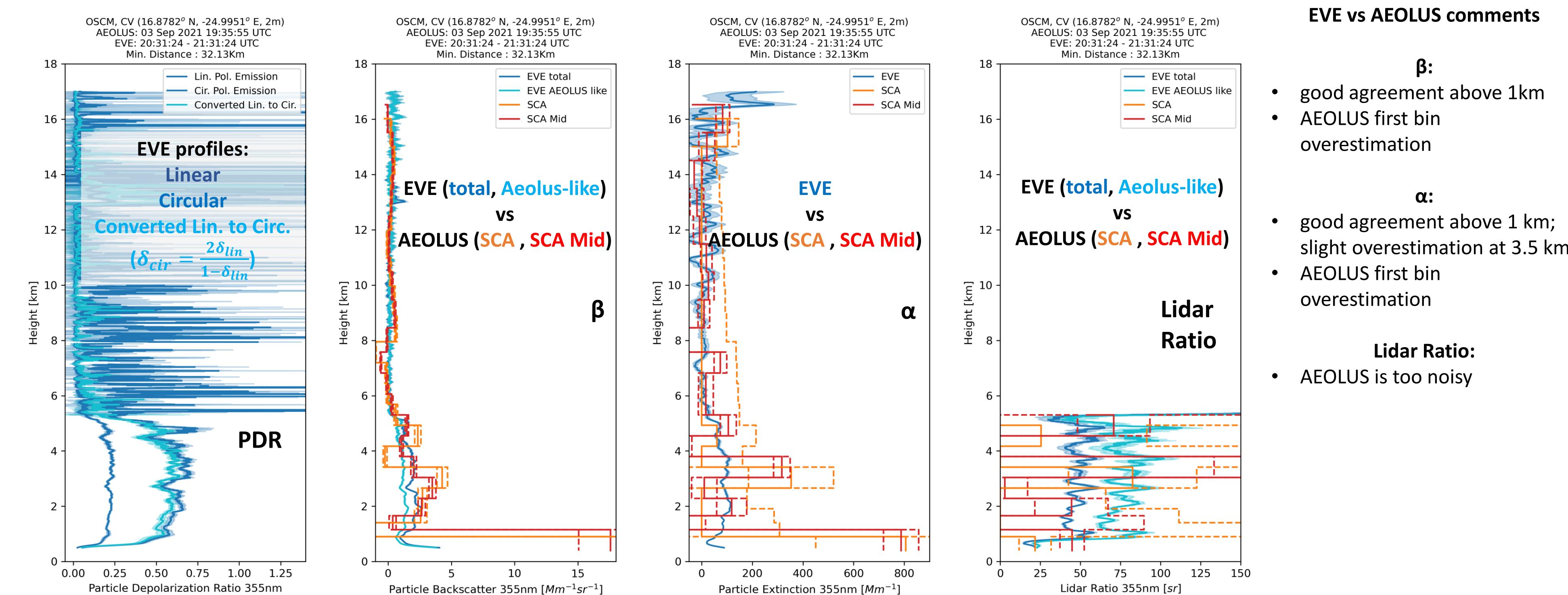
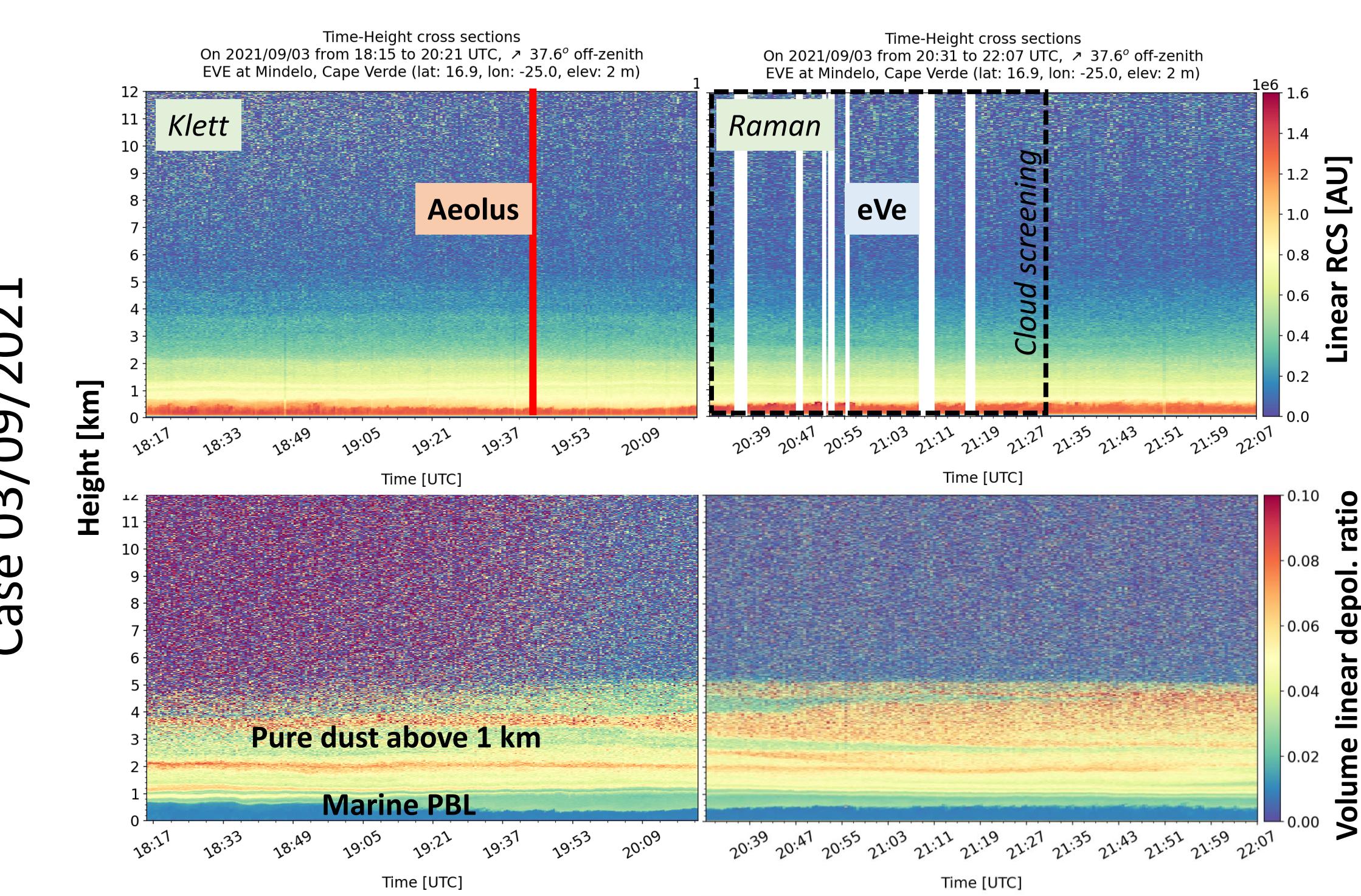
Nearest Aeolus overpass:

Friday evening at ~ 19:36 UTC and ~23 km from site (see map)

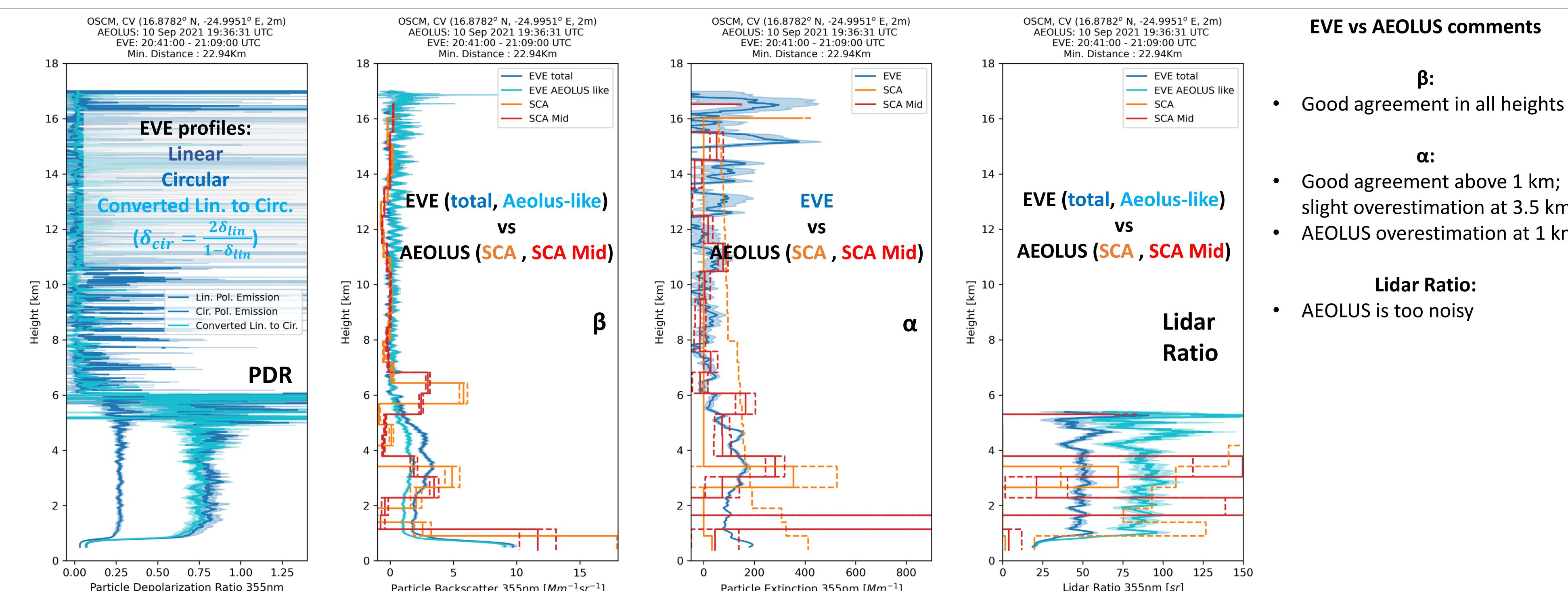
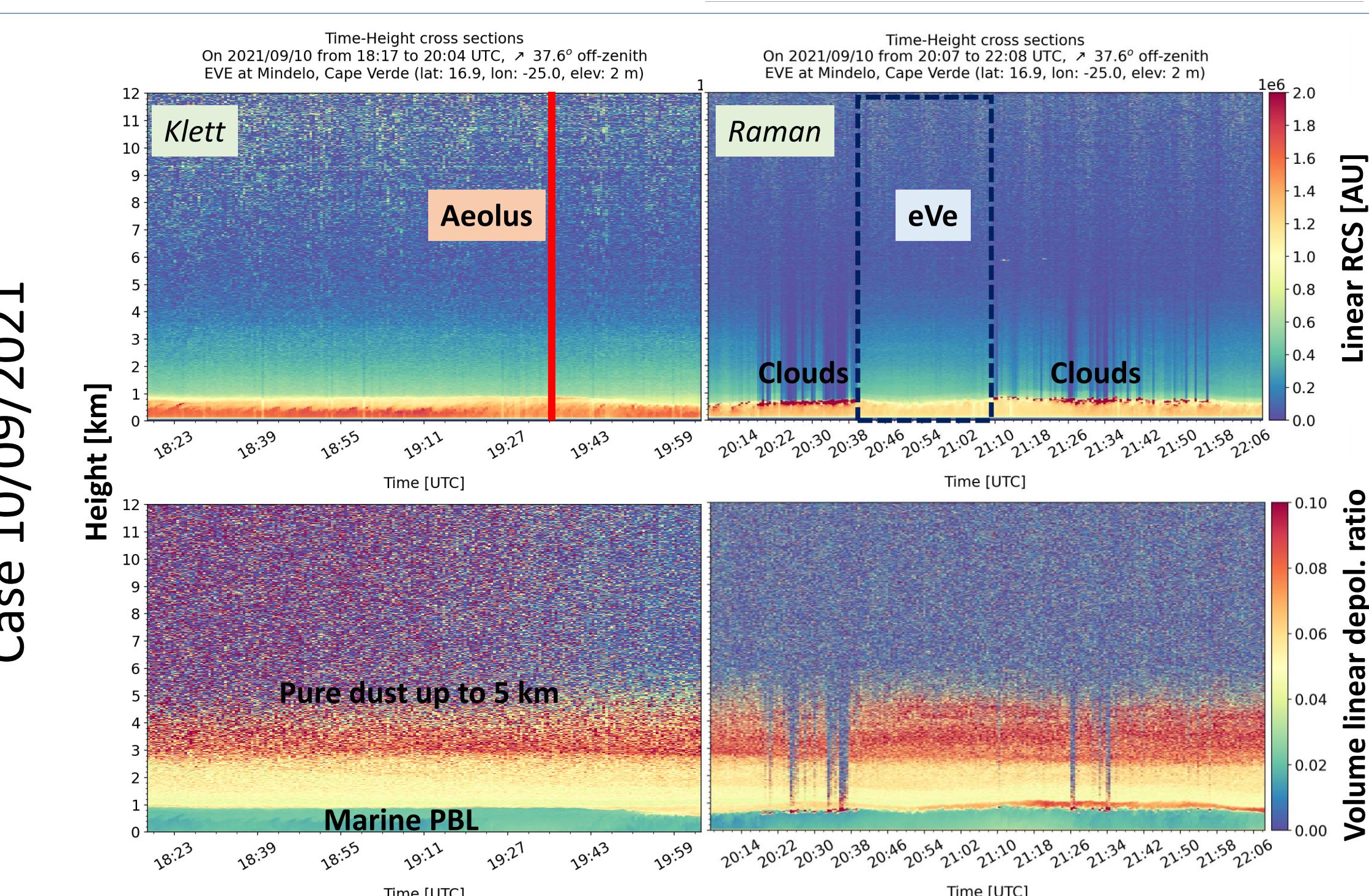
8 eVe-Aeolus collocated measurements (4 on July; 4 on September)



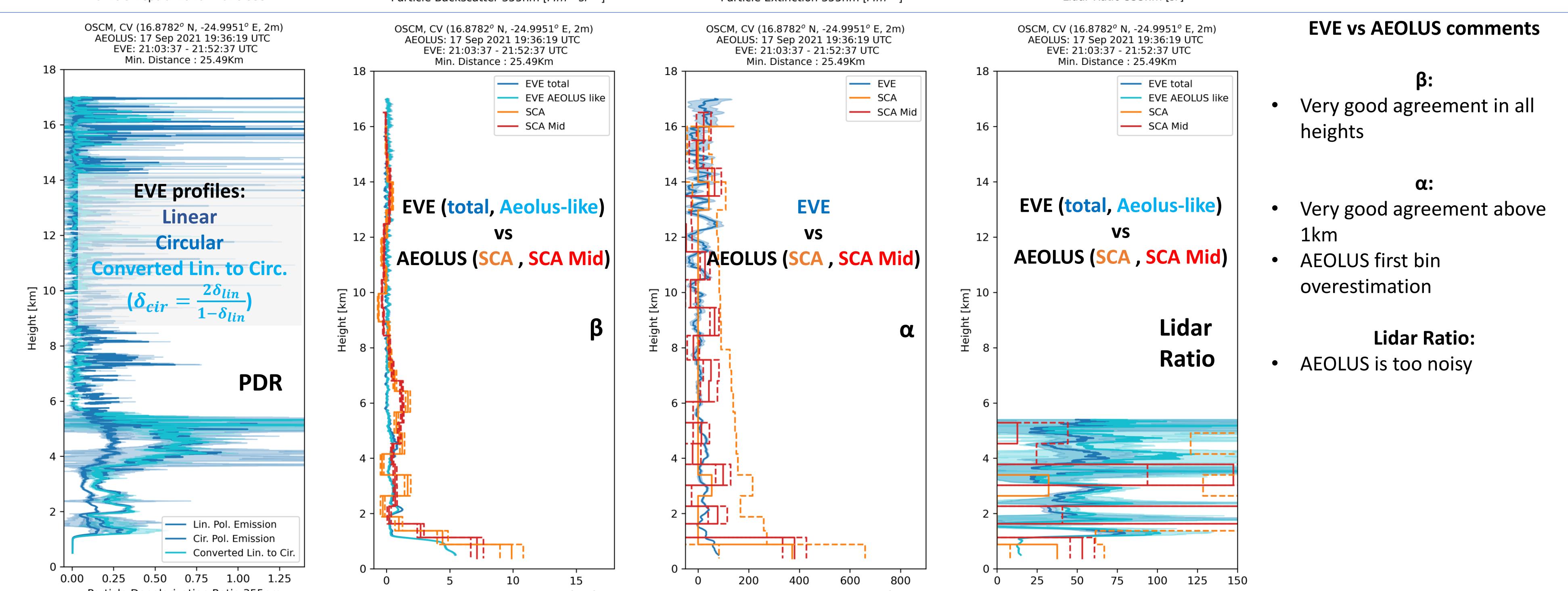
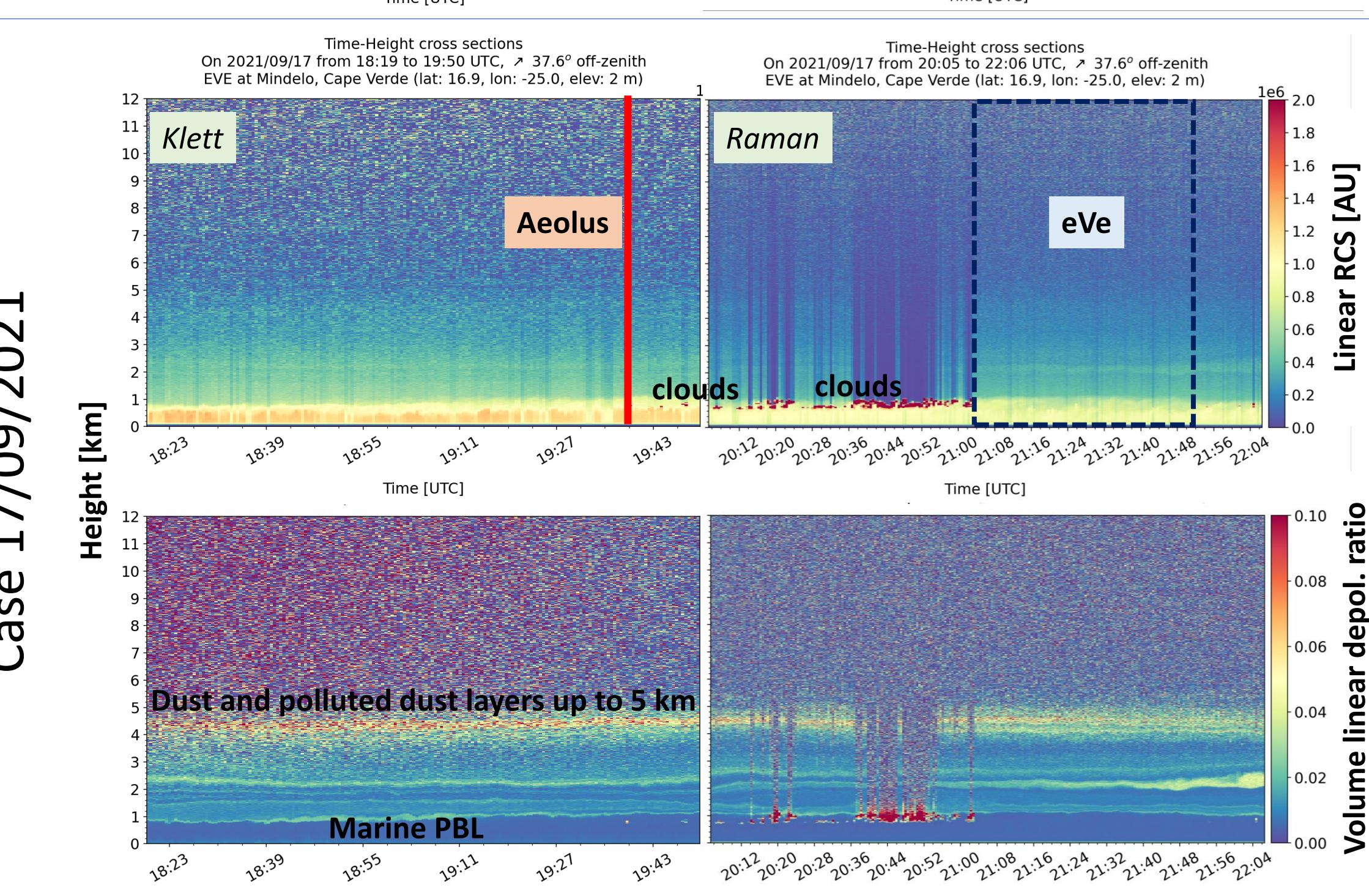
Case 03/09/2021



Case 10/09/2021



Case 17/09/2021



Case 24/09/2021

