Interactive comment on “Temporal consistency of lidar observables during aerosol transport events in the framework of the ChArMEx/ADRIMED campaign at Menorca Island in June 2013” by P. Chazette et al.

Anonymous Referee #2

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Review of “Temporal consistency of lidar observables during aerosol transport events in the framework of the ChArMEx/ADRIMED campaign at Menorca Island in June 2013” by Chazette et al.

This study presents lidar and AERONET sunphotometer measurements at Menorca Island during the ChArMEx/ADRIMED campaign (June 2013) and discuss the different origins of aerosol particles. Although the topic of this study is very interesting and this manuscript is well organized, several minor points should be adequately addressed before the publication in ACP.
This reviewer agree that co-located lidar and Cimel measurement data at Menorca Island are very unique. However, a context in sections 3.1 and 3.2 is similar to the contents of conventional papers, especially published by the authors. The quality of this paper will be enhanced if the authors highlight the major findings of this work compare to previous papers from the study region. In addition, some sentences should be concisely written. Same (or similar) expressions and/or words were too often repeated.

If the aerosol optical and physical data from ground-based in-situ or airborne measurements during the campaign are available, please add them to this work (e.g. line 23-26 of page 32731).

To get more general conclusion, the comparison between SEVIRI and Cimel at Menorca should be made with long-term data, not for only the intensive period data (Fig. 8).

Section 4: If the aerosol type classification from CALIOP are available along the backward trajectory, please add it.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 32723, 2015.