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## ***Interactive comment on “Variability of tropospheric methane above the Mediterranean Basin inferred from satellite and model data” by P. Ricaud et al.***

**A.K. Georgoulias**

ageor@auth.gr

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Since this interesting study is focused on the region of Mediterranean Basin and the authors do part of their analysis separately for the Western and Eastern part, I suggest that they should include the following paper in their citation list. To our knowledge this is the only paper dealing with tropospheric methane from satellites in the region.

Georgoulias, A.K., Kourtidis, K.A., Buchwitz, M., Schneising, O., Burrows, J.P.: A case study on the application of SCIAMACHY satellite methane measurements for regional studies: the Greater Area of Eastern Mediterranean, *Int. J. Remote Sens.*, 32(3), 787-

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813, doi:10.1080/01431161.2010.517791, 2011.

In addition, it would be nice if the authors added in their discussion a number of ground-based studies that were conducted in the area. It has to be highlighted that the greater Mediterranean area hosts a significant number of geological formations that could potentially contribute to the total methane burden.

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Interactive comment on Atmos. Chem. Phys. Discuss., 14, 9975, 2014.

ACPD

14, C1544–C1545, 2014

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