

Interactive comment on “SAETTA: high resolution 3D mapping of the total lightning activity in the Mediterranean basin over Corsica, with a focus on a MCS event” by Sylvain Coquillat et al.

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ATMOSPHERIC MEASUREMENT TECHNIQUES DISCUSSIONS

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Title: "SAETTA: high resolution 3D mapping of the total lightning activity in the Mediterranean basin over Corsica, with a focus on a MCS event"

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William Rison

Dear Associate Editor,

We thank you for having accepted our study for publication in AMT. We made the technical corrections that you requested (see below our point-by-point response). In particular, we checked - and modified where needed - all references. The modifications appear in red font in the new manuscript. Some figures have been moved so that the layout does not separate these figures from their legend.

Sincerely yours,

Sylvain Coquillat

P1, L12: resolutions → resolution

Corrected in page 1.

P2, L12: please explain "LF/VLF" and later on "VHF"

Explained in page 2.

P4, L 16: "12 ns rms"? Please clarify.

We deleted "rms", which was mentioned by mistake, page 4.

P7, L5: ...is expected TO allow FOR a better...

Corrected in page 7.

P12, L2: ... and therefore NEED TO (or HAVE TO?) be considered in the calculation...

Sentence corrected in page 12 by "may be considered".

P13, L24: I would not say that Corsica is representative of the convection in the whole Western Mediterranean basin. Please omit that part of the sentence or convince me otherwise.

Part of the sentence deleted in page 13, you are right.

P22, Fig. 12: Please clarify the size definitions: What is a big flash etc?

Clarification made in page 22 at the end of the figure caption.

P20, L32: virtuel accuracy → vertical accuracy

Corrected in page 30.

References: Please check your bibliographic entries so that all of the citations are matched (citation in the text AND entry in reference list). E.g. Barthlott and Kirshbaum (2013) is missing in the reference list, Barthlott et al. (2014) → Barthlott et al. (2016) + Vol + pages

We checked all references. We added some that were missing (Tessendorf; Wiens), and modified others where needed. The references are now corrected in the text (pages 3; 10; and 17) and in the references section (pages 35; 36; 37; 38; and 39).

Please also note the supplement to this comment:

<https://www.atmos-meas-tech-discuss.net/amt-2019-192/amt-2019-192-AC4-supplement.pdf>

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2019-192, 2019.

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