

Interactive comment on “The Eyjafjöll explosive volcanic eruption from a microwave weather radar perspective” by F. S. Marzano et al.

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Great article which gives a good inside to using ground based radars for measuring volcanic events. I have no comments on the content itself, only suggestions regarding the grammar. »> We thank the reviewer for his appreciation of the contents of the submitted work. Our replies follow the symbol “»>” and the modifications are highlighted in “yellow” within the revised text.

On page 2, line 10: The discussion about the eruption is as it is still ongoing. "the 2010 Eyjafjöll eruption has been lasting for several weeks" while in other parts of the paper

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there is given a definite end time of the eruption. My suggestion is that here it should be "the 2010 Eyjafjöll eruption lasted several weeks". »> Agreed.

On page 7, line 11: In the article a "jökulhlaup" is mentioned, I would suggest using "glacier burst". »> Agreed, even though the Icelandic word has been saved.

On page 7, line 12: In the article the word "sandur" is used, I would suggest using "the sand on the lowland". »> Agreed.

On page 14, line 2: Here there is a typo, the text says "The VARR technique can be been applied..." I suggest removing "been" from this sentence. »> Corrected.

On page 14, line 16: In the article the text goes "Radar returns have been then geolocated into..." I suggest moving "been" behind "then" so the text would be "Radar returns have then been geo-located into...". »> Corrected.

On page 15, line 19: In the article the text goes "The radar-derived total volume $V_{at}(m\ddot{E}\ddot{E}\ddot{E}3)$ can be then computed integrating..." I suggest moving "be" behind "then" and inserting "by" so the text would be "The radar-derived total volume $V_{at}(m\ddot{E}\ddot{E}\ddot{E}3)$ can then be computed by integrating...". »> Corrected.

On page 16, line 1: In the article the text goes "...ash cloud $v_a(t)$ may be not detectable..." I suggest moving "be" behind "not" so the text would be "...ash cloud $v_a(t)$ may not be detectable..." »> Corrected.

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/11/C7704/2011/acpd-11-C7704-2011-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 12367, 2011.

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