

Interactive comment on “Evaluation of the initial stage of the reactivated Cotopaxi volcano – analysis of the first ejected fine-grained material” by T. Toulkeridis et al.

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In order to keep the discussion on this paper the most objective possible I will just answer on few important points:

1) Sampling: the map provided in the IGEPTN is absolutely not a "theoretical prediction", it is a deposit map based on a sampling mission realized the 14th and 15th of August. The map presented by the authors is the dispersion of the ash cloud based on satellite images that can show only the very fine-grained material. As seen in the numerous pictures of Cotopaxi volcano, there were no ash deposit on the northeastern side of the volcano after the 14th August event. Another example of such behavior can be

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seen in Parra et al 2016.

2) About the reply to reviewer #2 on ash analysis. Of course there is an international consensus on tephra sampling and analysis. Please check the following site and references in Bonadonna et al (2011). http://www.ivhhn.org/images/pdf/ash_analysis_protocol_2010.pdf
http://ivhhn.org/index.php?option=com_content&view=article&id=105
http://ivhhn.org/index.php?option=com_content&view=article&id=107

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