Nat. Hazards Earth Syst. Sci. Discuss., 3, C3027–C3028, 2016 www.nat-hazards-earth-syst-sci-discuss.net/3/C3027/2016/ © Author(s) 2016. This work is distributed under the Creative Commons Attribute 3.0 License.



NHESSD

3, C3027–C3028, 2016

Interactive Comment

## 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.

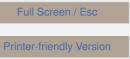
## B. Bernard

bbernard@igepn.edu.ec

Received and published: 22 January 2016

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 IGEPN 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



nteractive Discussion

**Discussion Paper** 



seen in Parra et al 2016.

Of course 2) About the reply to reviewer #2 on ash analysis. there is international consensus tephra sampling an on and analysis. Please check the following site and references in Bonadonna et (2011). http://www.ivhhn.org/images/pdf/ash\_analysis\_protocol\_2010.pdf al http://ivhhn.org/index.php?option=com content&view=article&id=105 http://ivhhn.org/index.php?option=com content&view=article&id=107

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 6947, 2015.

## NHESSD

3, C3027–C3028, 2016

Interactive Comment

Full Screen / Esc

**Printer-friendly Version** 

Interactive Discussion

**Discussion Paper** 

