

# ***Interactive comment on “Dynamics and style transition of a moderate, Vulcanian-driven eruption at Tungurahua (Ecuador) on February 2014: pyroclastic deposits and hazard considerations” by Jorge Eduardo Romero et al.***

## **Anonymous Referee #1**

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This volcanological study shows qualitative description and quantitative data collected during the fieldwork to describe the eruptions from 1-14 February 2014 of Tungurahua volcano (Ecuador). Particularly, tephra fallout and pyroclastic density currents (PDC), generated by Vulcanian, Subplinian and Strombolian eruptions, are described and used to infer the style transition and eruption magnitude. In the manuscript, the authors highlight the unusual rapid evolution from unrest to eruption and the fast transition from Vulcanian to Subplinian eruption. Rapid changes in the eruptive style are still debated, not widely described and poorly understood, therefore, quantitative description of style transition are important for volcanic hazard

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assessment. The manuscript is well written and organized, therefore, I think that it should be accepted as is. I have made just few corrections (typos) on the manuscript.

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/se-2016-159/se-2016-159-RC1-supplement.pdf>

Interactive comment on Solid Earth Discuss., doi:10.5194/se-2016-159, 2016.

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