A Study on Volcanic Cone of Hongtushan Formed by the Millennium Eruption of Changbaishan Volcano

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Abstract: The millennium eruption of Changbaishan-Tianchi volcano forms many cones and Hongtushan cone is one of them. Hongtushan cone is 40.1km away from Changbaishan volcano. The color of the outcrop changes from reddish to yellowish from bottom to top. The base of the cone shows a stack of scoriaceous lapilli-sized fragments forming a massive, matrix-supported deposit. Overlying the massive deposit is a reddish stratified deposits, the decimeter-scale beds transition upwards to centimeter-scale beds, as the size of the volcanic fragments decreases. At the top of this stratified deposits is yellowish volcanic fragment deposit with many basaltic bombs in it, these bombs have many vesicles. Overlying the yellowish deposit is a gray massive clast-supported deposit. This bed compose of centimeter-scale volcanic fragment. Above this bed is a reddish deposit with lapilli-sized, angular, scoriaceous volcanic fragment, along with scattered bombs up to 20cm in size. At the top of the cone is yellowish basaltic volcanic fragment deposit.

Key word: Changbaishan volcanic, cone, volcanic eruptions

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