

画像解析から得られる 火山岩塊放出のダイナミクス Dynamics of Ballistic Transport Based on the Image Analysis

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Conclusion

- We obtained the data of 29 trajectories from the video footage taken on April 25, 2015
- The trajectories are analyzed using frame-by-frame images. The mean velocities at the vent were 1.3 m/s in horizontal direction and 9.4 m/s in vertical direction. This values are quite small compared to the reported Strombolian velocities.
- Using particle density = 475 kg/m^3 , flow velocity is estimated from 40 to 50 m/s for the first trajectory, which is larger than the ejection velocity of this trajectory.