



## **Unified model intercomparisons for volcanic ash transport modeling**

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Our group is pursuing a volcanic ash transport model intercomparison study (VATMIS) to rigorously evaluate the relative performance of several ATM's on the atmospheric transport of volcanic ash from selected case studies. These intercomparisons require the definition of standard output formats for producing results in a common framework. In our work, we define the common format and develop a set of tools to evaluate the data, allowing for side-by-side comparisons on a level playing field. Though the intercomparison tools we develop have widespread applicability to a number of ATM activities, we demonstrate their utility in the realm of volcanic ash transport modeling. In this poster presentation, we use the Alaska Mount Spurr eruption of 1992 as a case study, employing HYSPLIT, FLEXPART and PUFF with common meteorological forcing data, and with release and intrinsic-model set-ups as similar as possible. This case study will allow us to test the deployment of our intercomparison tools and refine as necessary.