***Supporting Information for:***

**Karymsky volcano eruptive plume properties based on MISR multi-angle imagery and the volcanological implications**

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6 Excel spreadsheet including:

A GVP\_Reports

B MISR

**Introduction**

Image files:

MISR Research Aerosol (RA) retrieval algorithm particle property analysis for individual Karymsky plumes (over ocean retrievals only). Retrievals are aggregated to a ~10km grid. Particle types:

Small, spherical, absorbing (SmSpHab(f), SmSpHab(s), SmSpMab(f));

Small, spherical, non-absorbing (SmSpNab);

Medium-small, spherical, non-absorbing (MsSpNab);

Medium, spherical, non-absorbing (MeSpNab);

Large, spherical, non-absorbing (LaSpNab);

Medium, weakly-absorbing dust grains (MdNspWab);

Large, spheroids, weakly absorbing (LaSpdWab)

Corresponding MISR INteractive eXplorer (MINX) output, containing:

Map view of stereo-derived plume heights;

Graph view of stereo-derived plume height with distance from initiation point;

Wind speeds derived from apparent plume motion occurring between the each camera observation obtained from MISR (<7 min).

Retrievals are labeled with: plume identification code and class used in the paper.

Note: The elevation scales vary between the panels, and particle concentrations scales vary by component type.

Spreadsheet:

Summary of Global Volcanism reports by year and plume altitude

MISR retrieval products (MINX plume heights –Karymsky; MISR RA whole plume particle fraction – Karymsky & Holuhraun)