Volcanoes

magma ascent and eruption

Image courtesy of USGS.
Magma fragmentation

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Magma fragmentation

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Magnitude and intensity

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Please see “The Volcanic Explosivity Index Table” in:

\[
\text{magnitude} = \log_{10}(\text{erupted mass, kg}) - 7.
\]

\[
\text{intensity} = \log_{10}(\text{mass eruption rate, kg/s}) + 3.
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