Volcanoes

magma ascent and eruption



Image courtesy of USGS.

Magma fragmentation

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Please see "Magma fragmentation" in: Houghton, B., H. Rymer, J. Stix, S. McNutt, H. Sigurdsson. *Encyclopedia of Volcanoes*. San Diego, Calif. : Academic, c2000. ISBN: 9780126431407.

Magma fragmentation

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Please see Figure 7 in:

Houghton, B., H. Rymer, J. Stix, S. McNutt, H. Sigurdsson.

Encyclopedia of Volcanoes. San Diego, Calif.: Academic, c2000.

ISBN: 9780126431407.

Magnitude and intensity

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Please see "The Volcanic Explosivity Index Table" in: Houghton, B., H. Rymer, J. Stix, S. McNutt, H. Sigurdsson. *Encyclopedia of Volcanoes*. San Diego, Calif.: Academic, c2000. ISBN: 9780126431407.

magnitude =
$$log_{10}$$
(erupted mass, kg) - 7.

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

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Please see "Table II" in:

Houghton, B., H. Rymer, J. Stix, S. McNutt, H. Sigurdsson.

Encyclopedia of Volcanoes. San Diego, Calif.: Academic, c2000.

ISBN: 9780126431407.

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Please see "Table III" in:

Houghton, B., H. Rymer, J. Stix, S. McNutt, H. Sigurdsson.

Encyclopedia of Volcanoes. San Diego, Calif.: Academic, c2000.

ISBN: 9780126431407.

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