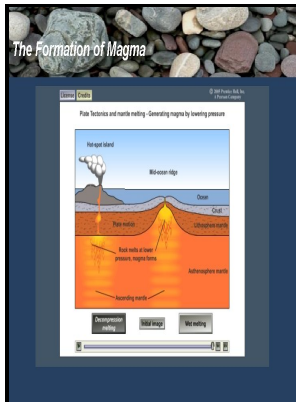


Tectonics and the formation of magmas

Consultants Bureau - what tectonic setting do you typically form mafic igneous rocks?



Description: -

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Notes: Originally published, Moscow: Nedra Press, 1968.

This edition was published in 1971



Filesize: 7.1010 MB

Tags: #Geological #setting #of #Etna

4.2 Magma Composition and Eruption Style

This is similar to the lowering of the melting point of ice when it is mixed with salt. ! Four lines of positive evidence are: 1 elevated thermal regime; 2, 3 abundance of unusual dry magmas such as A-type granites and anorthosites; and 4 paucity of new passive continental margins. The formation of LIPs is variously attributed to mantle plumes or to processes associated with divergent plate tectonics.

what tectonic setting do you typically form mafic igneous rocks?

The result is a long-lived volcanism which often builds a chain of volcanoes which become progressively older with distance from the active hot spot. With such a high silica content, these magmas are extremely viscous, ranging from 10⁸ for hot rhyolite magma at 1,200 °C 2,190 °F to 10¹¹ cP for cool rhyolite magma at 800 °C 1,470 °F. Plate tectonics appears to be driven by convection in some form.

Plate tectonics and magma genesis

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How the Pilbara was formed more than 3 billion years ago

The addition of is relatively a much less important cause of magma formation than the addition of water, but genesis of some magmas has been attributed to the dominance of carbon dioxide over water in their mantle source regions. Composition of the igneous rocks: mafic very explosive. Within a plate tectonic framework two environments for the generation and emplacement of igneous rocks are recognized: at plate margins ... Basalt underlies more of Earth's surface than any other rock type.

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