

# Basalts

## Van Nostrand Reinhold - Flood Basalts



Description: -

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Basalt. Basalts

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Eighteenth century -- reel 1160, no. 13.

A Hutchinson Ross Benchmark book

Benchmark papers in geology -- v. 71 Basalts

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### Basalt Rock

It's finer grained because it cools quickly, near or on the Earth's surface, and contains only very small crystals. It's dark and dense because it's richer in the dark, heavy minerals bearing magnesium and iron that is, more mafic and poorer in silicon- and aluminum-bearing minerals. Other flows in the Columbia River Flood Basalt Province have even greater volumes and other large igneous provinces have volumes 10 times greater than the Columbia River Flood Basalt Province.

### Flood Basalts

All rocks of the same age have the same polarity. On the Trail of the Ice Age Floods: A Geological Guide to the Mid-Columbia Basin. The island of Surtsey in the Atlantic Ocean is a basalt volcano which breached the ocean surface in 1963.

### Flood basalt

If the basalts rise beneath a continent, they most often mix with less mafic that is, more felsic continental rocks and yield different sorts of lavas ranging from andesite to rhyolite.

### USGS: Volcano Hazards Program Glossary

The new idea is that these flows are emplaced more like flows, namely slow moving with most of the great thickness being accomplished by injecting into the interior of an initially thin flow. The Columbia River Basalt Group is thought to be a potential link to the in south-central . About 100,000 years ago it is thought to have grown tall enough to emerge from the ocean as an island.

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