

Earth Sciences 1023/2123

Lab #6

Volcanism

ONLINE

1. Introduction:

Today's lab will focus on volcanoes and volcanic rocks, but we also will learn about intrusive igneous rocks, and the hazards associated with volcanic eruptions.

Igneous rocks are one of the three main rock types, and are formed by the cooling and solidification of magma either within the Earth's crust (**intrusive** or **plutonic** igneous rocks) or at the Earth's surface (**extrusive** or **volcanic** igneous rocks). In *intrusive* igneous rocks, the crystals are large enough to see with the naked eye as they had time to grow in a slowly cooling magma. In contrast, *extrusive* rocks are typically glassy or fine-grained due to rapid cooling in lava at the Earth's surface.¹

Volcanoes generate a wide variety of phenomena that can alter the Earth's surface and atmosphere and endanger people and property. While most volcanic hazards are associated with eruptions, some, like landslides, can occur when a volcano is quiescent. Small volcanic events may pose a hazard only within a few kilometres of the volcano, while large events can directly or indirectly endanger people and property tens to hundreds of kilometres away, and even globally in extreme cases.²

Hazard assessment is the determination of the threat that a geological event poses to human lives and property and is one of the more difficult problems involved in dealing with geological hazards. For example, a volcano erupting in Antarctica is only a **geological phenomenon**, and generally not a **geological hazard**, because it poses no threat to lives or property – unless of course it is near one of the remote research stations! The same volcano erupting in London is a very different matter. The difficulty associated with hazard assessment is in determining how much of a threat any hazard represents. If geologists underestimate a threat then many people can be killed and properties and businesses can be destroyed. On the other hand, if geologists overestimate a threat then they can lose credibility resulting in people not heeding future warnings.³ Therefore, it's important to understand the scale of threat associated with various volcanic hazards.

2. Objectives

By the end of this laboratory, you should:

- 1) Know the basic properties of intrusive and extrusive igneous rocks;
- 2) Be able to identify some samples of intrusive and extrusive igneous rocks;
- 3) Be able to identify where various rock types might be found around a non-active volcano;
- 4) Understand the hazards associated with volcanic eruptions.

¹ Definitions from the Glossary of Geology, 5th Ed. (2005). American Geological Institute, USA. 779 pp.

² Reference: Department of Earth and Space Sciences, University of Washington.

³ Reference: Department of Geology, University of Maryland.

Earth Science Volcanism Study Guide Answers

Peter L. Kresan, Reed Mencke



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