



3. Estimation of equilibration P-T of mantle xenoliths.

3. Pressure Effect on mineralogy of granitic magmas.

*Laboratory 4-6.* Identification of minerals in Intermediate and Felsic rocks.

*Laboratory 7.* Textural Interpretation of magmatic processes.

**Lecture 11.** Effect of Volatiles on Binary Phase Diagrams.

*Practical Applications:* Degassing of magmas and metasomatism.

Homework assignment.

**Lectures 12-14.** Continuation of phase diagrams from previous lecture. Concept of Primary Magma. Significance of isoplethal diagrams in petrology.

**Lectures 15-17.** Magma generation: Melting of peridotite vs. eclogite.

**Lecture/Lab 18-21.** Textural Interpretation of Igneous Rocks. *[Reading Materials to be supplied].*