

TEXTBOOKS ON RESERVE IN THE GEOLOGY LIBRARY FOR IGNEOUS
PETROLOGY

Best, M.G., and Christiansen, E.H., *Igneous Petrology*

Raymond, L.A., *Petrology: The Study of Igneous, Sedimentary, and Metamorphic Rocks*

Sigurdsson, H. (editor) *Encyclopedia of Volcanoes*

Below is a list of the background readings for the lectures on igneous petrology. The lecture title corresponds to those in the class syllabus. Readings from Best and Christiansen (B&C) and Raymond are specific page numbers, whereas those from Sigurdsson are for specific short chapters (typically 5 or so pages).

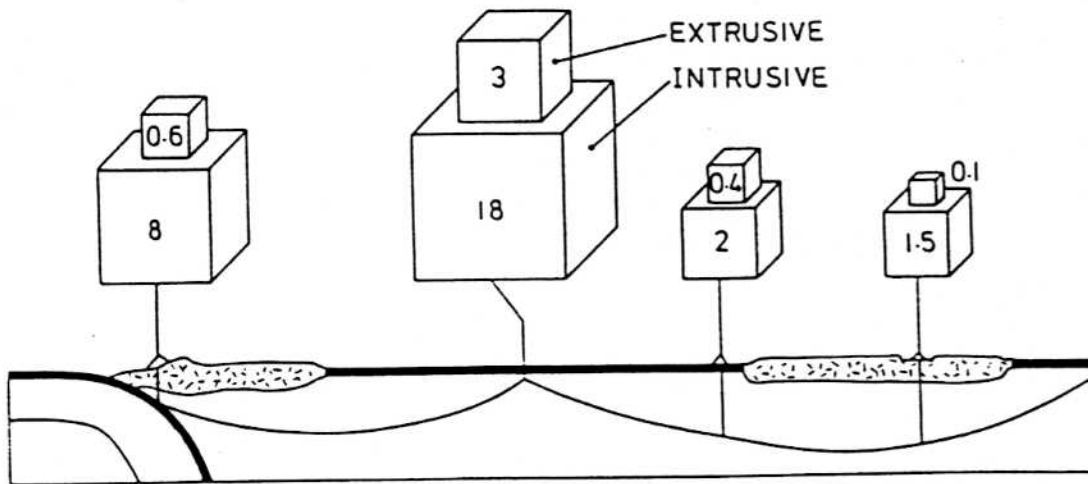
Lecture Title	B&C	Raymond	Sigurdsson
Earth's Mantle	Chapter 1		Mantle of the Earth
Mantle Melting			Plate Tectonics and Volcanism Origins of Magmas
Mid-ocean Ridges			Plate Tectonics and Volcanism
Crystallization I&II	28-32 87-99		Compositions of Magmas
Igneous Textures	148-162	24-29	
Magmatic Intrusions		13-18	
Volcanic Eruptions			Sizes of Volcanic Eruptions
Magma Dynamics	72-80		Rates of Magma Ascent
Volcanoes		9-13	Composite Volcanoes

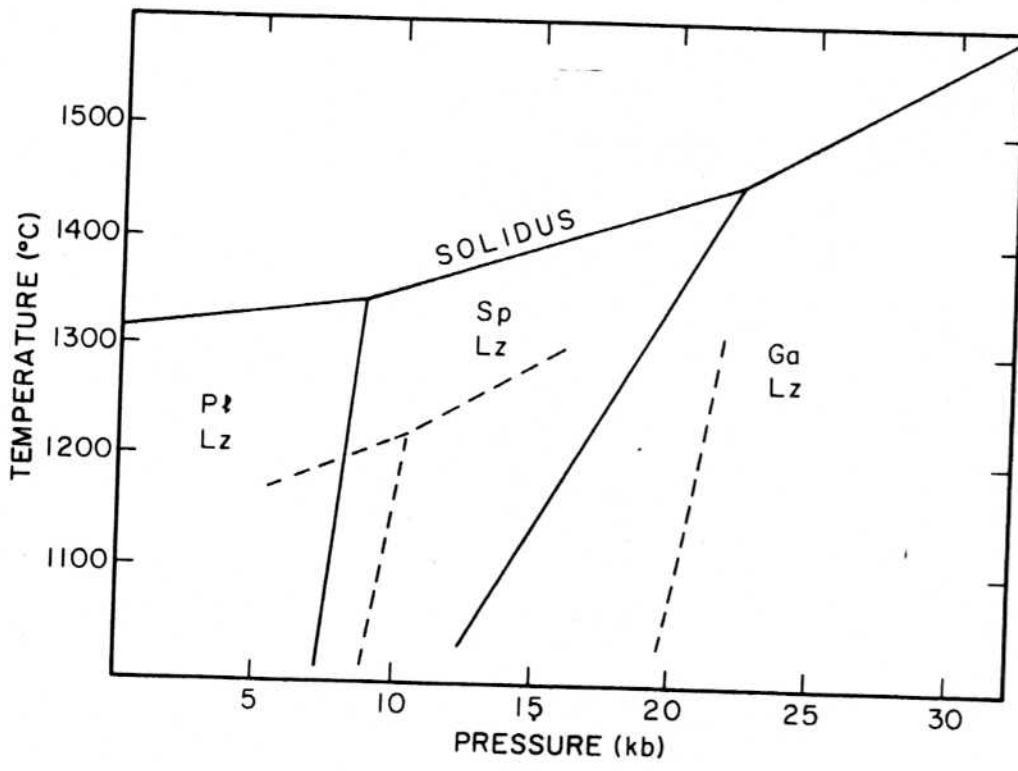
CONSUMING
PLATE
BOUNDARIES

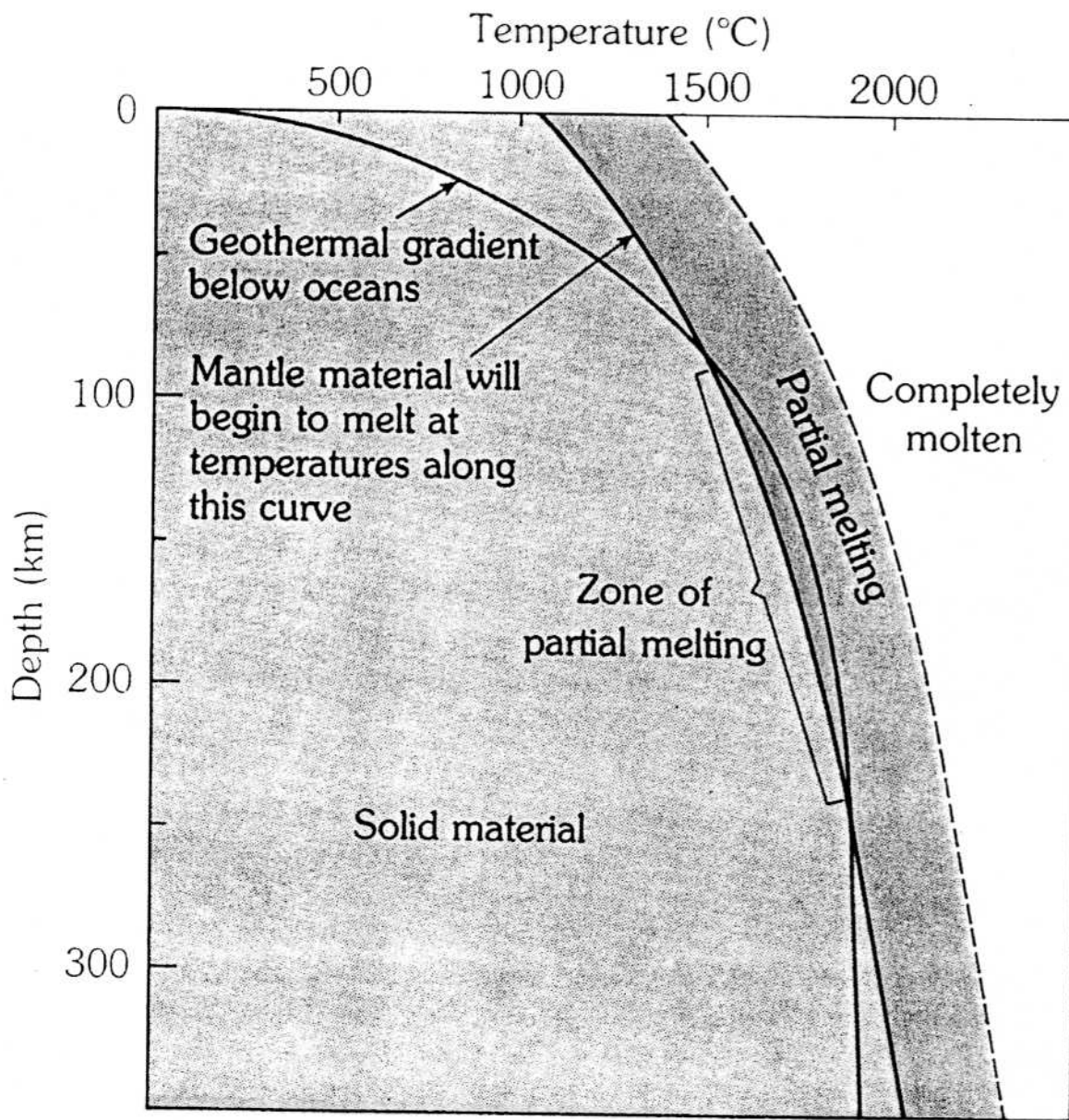
ACCRETING
PLATE
BOUNDARIES

INTRA
OCEANIC
PLATE

INTRA
CONTINENTAL
PLATE







H₂O-Fluxed Melting at Subduction Zones

