

Structure and Composition of the Earth's Interior (GEO4-1401)

Tentamen - 10 November 2010

Jeannot Trampert

The numbers in () indicate the percentage for evaluation. No documents are allowed during the examination. Please write clearly and don't forget to indicate your name.

1. (30) Why is it so difficult to combine geochemical and geophysical models? Give examples of what these models describe and how they could be combined.
2. (40) Lower mantle heterogeneity, dynamic topography and the geoid, by Hager et al., 1985, is a very important paper. Why? How have the views in this paper changed over time, give examples from other papers we read.
3. (30) How can you get information on the Earth's temperature and composition? Give a detailed description of how to proceed (measurements, theory, ...)

Good luck.