Geophysical Research Abstracts, Vol. 10, EGU2008-A-07014, 2008 SRef-ID: 1607-7962/gra/EGU2008-A-07014 EGU General Assembly 2008 © Author(s) 2008



Tomographic mapping of Lg propagation in Northern Europe

M. Boemler (1,2), S. Gregersen (2), P. Voss (2), K. Mosegaard (1)

(1) Niels Bohr Institute, University of Copenhagen, (2) GEUS, Geological survey of Denmark and Greenland

We look at crustal differences across the geological significant Tornquist zone. Recordings of regional earthquakes have been collected in attempt to find the Lg surface wave propagation. We classify the Lg-wave propagation paths according to whether the Lg wave propagation is good, intermediate or poor. We will include the available data from the period 1994-2007, accepting earthquakes with at least three amplitude measurements. With a relatively dense area coverage provided by paths crossing the region it is possible to invert for the pattern of crustal heterogeneity which gives rise to the observed character of the Lg wave propagation. We are using data from permanent seismic stations.