

Examples for separate recording of a group of reflected Rayleigh waves

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Abstract

The difference between the propagation of seismic surface and seismic body waves is briefly discussed. Our fundamental observation made at one station and from one event was first controlled with records of other stations and other events. The wave group penetrates the uppermost subsurface layers around 2 to 3 km deep. Under this respect, the territory of Thuringia can be subdivided approximately into three zones. Possible reflectors of surface waves are lying on an ellipse around both the focus of the event investigated and the site of observation. Ellipses have been constructed for different foci and different stations. A proposal was discussed to explain the observed reflections.