

The upper mantle process beneath the Carpatho-Pannonian Region deduced from the peridotite xenoliths

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Four localities, northern Bulgaria,

Balaton Lake (Hungary), northern Hungary and eastern Austria, were selected in the context of the relative position in the Carpatho-Pannonian Region, Europe. The peridotites are mostly spinel lherzolite. The textures are highly variable, possibly from the margin to the center of the Basin. The lherzolite has porphyroclastic texture to fine-grained equigranular texture in the Balaton Lake area, near the center of the Basin, has protogranular texture in northern Bulgaria, near the margin of the Basin. This is possibly related to the upwelling movement of the mantle to form a large basin.