

Spatial variation of structure and texture in the mantle section of northern Fizh Block, northern Oman Ophiolite

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Spatial variation of structure and texture in the mantle section of northern Fizh Block, northern Oman Ophiolite was discussed to investigate the deformation history in the lithospheric mantle. Within 5 km from Moho, the harzburgite with coarse granular texture is widely spread but cut by shear zone extending from Moho. The northwestern extension of shear zone shows structural continuity with the shear zone. However, some part has deformation structure keen to the domain with porphyroclastic to tubular equigranular texture that is located lower horizon. On the other hand, the basal shear zone seems to have been suffered deformation under stress setting different from that responsible for the formation of porphyroclastic to tubular equigranular texture domain.