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Basement Structure and Properties of the Southern Junggar Basin

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Abstract

We have investigated the detailed structures of velocity, density and magnetization intensity along a nearly east-west profile from Liugou to Dajing across the southern Junggar Basin using the seismic converted wave profiling and joint inversion of gravity and geomagnetic data. Our observations reveal such important interfaces as interface B (the top surface of the folded basement), interface G (the top surface of the crystalline basement), interfaces C₁ and C₂ (interfaces within the crust), and the Moho

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