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Crustal structure of southern Burkina Faso inferred from magnetotelluric, gravity and magnetic data

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19 **Abstract**

20 Understanding the architecture of the West African craton at depth is essential to be able to
21 reconstruct its evolution. Here, this study focuses on the crustal imaging of structures and
22 geometries characterizing the crust of the Leo-Man shield with broadband and long period
23 magnetotelluric data collected in southern Burkina Faso and covering a 220km long profile. The
24 resulting 3D resistivity crustal model highlights the distribution of the granite-greenstone

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