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## **Modelling and interpretation of the African crustal magnetic field in light of possible annihilators**

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An inverse approach to the determination of magnetic crustal thickness (Fox Maule et al., 2005) has been extended to include unseen magnetic fields symmetric with respect to the magnetic dip equator. The presence of these annihilators (Maus et al., 2003) results in a systematic underestimate of the magnetic thickness of Africa. In order to account for this we utilize the seismic data to place bounds on the magnitude of this unseen field (and magnetic crust). The seismic models considered here are 3SMAC, Crust 5.1, and WENA.