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Selim Özalp^{a,*}, selim.ozalp@mta.gov.tr, Ömer Emre^b, Fuat Şaroğlu^c, Volkan Özaksoy^d, Hasan Elmacı^a, Tamer Y. Duman^b

^aGeneral Directorate of Mineral Research and Exploration (MTA), Department of Geological Research, 06800 Ankara, Turkey

^bFugro Sial Geosciences Consulting and Engineering, Farabi Sok. 40/4, 06680 Ankara, Turkey

^cMAĞ-TUR A.Ş. Atatürk Bulvarı Selcan İşhanı No: 127/415, Ankara, Turkey

^dAkdeniz University, Department of Geological Engineering, 07058 Antalya, Turkey

*Corresponding author at: General Directorate of Mineral Research and Exploration (MTA), Department of Geological Research, TR-06800, Ankara, Turkey.

Graphical abstract

Highlights

- Çivril Graben System (ÇGS) is one of the important tectonic structures in the Western Anatolia.
- ÇGS comprises two main geometric sections of the Dinar Graben and the Baklan Graben.
- The last destructive earthquake in ÇGS was the 1995 Dinar Earthquake (Mw=6.2).
- Surface rupture of the 1995 Dinar Earthquake has been mapped in detail.
- Long term slip rate range of the Dinar Fault is calculated at 0.27 ± 0.05 mm/year

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