

THE IRAN EARTHQUAKE OF DECEMBER 19, 1977
(BAB - TANGAL, NORTHWESTERN KERMAN).

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ABSTRACT

The Bab-Tangal earthquake occurred on the December 19, 1977, located some 80 kms northwest of Kerman in eastern Iran. The casualties amounted to 522 people with destruction over an area of 250 km². The maximum intensity did not exceed VIII (MM) and was observed in three separate villages Bab-Tangal, Giesk and Sar-Bagh, 10 to 15 km northeast of Zarand in a narrow belt oriented northwest - southeast with about 15 km length and 5km width. The earthquake was associated with a fresh surface faulting striking N40 °W. The fault plane strikes NW and dips 80° SW. The mechanism of faulting is strike-slip. The slip vector is horizontal with an azimuth of about N42 °W and a slip angle of about 10 °. The compressional axis is also horizontal and lies in an approximate north-south direction and be interpreted as a northward stress.

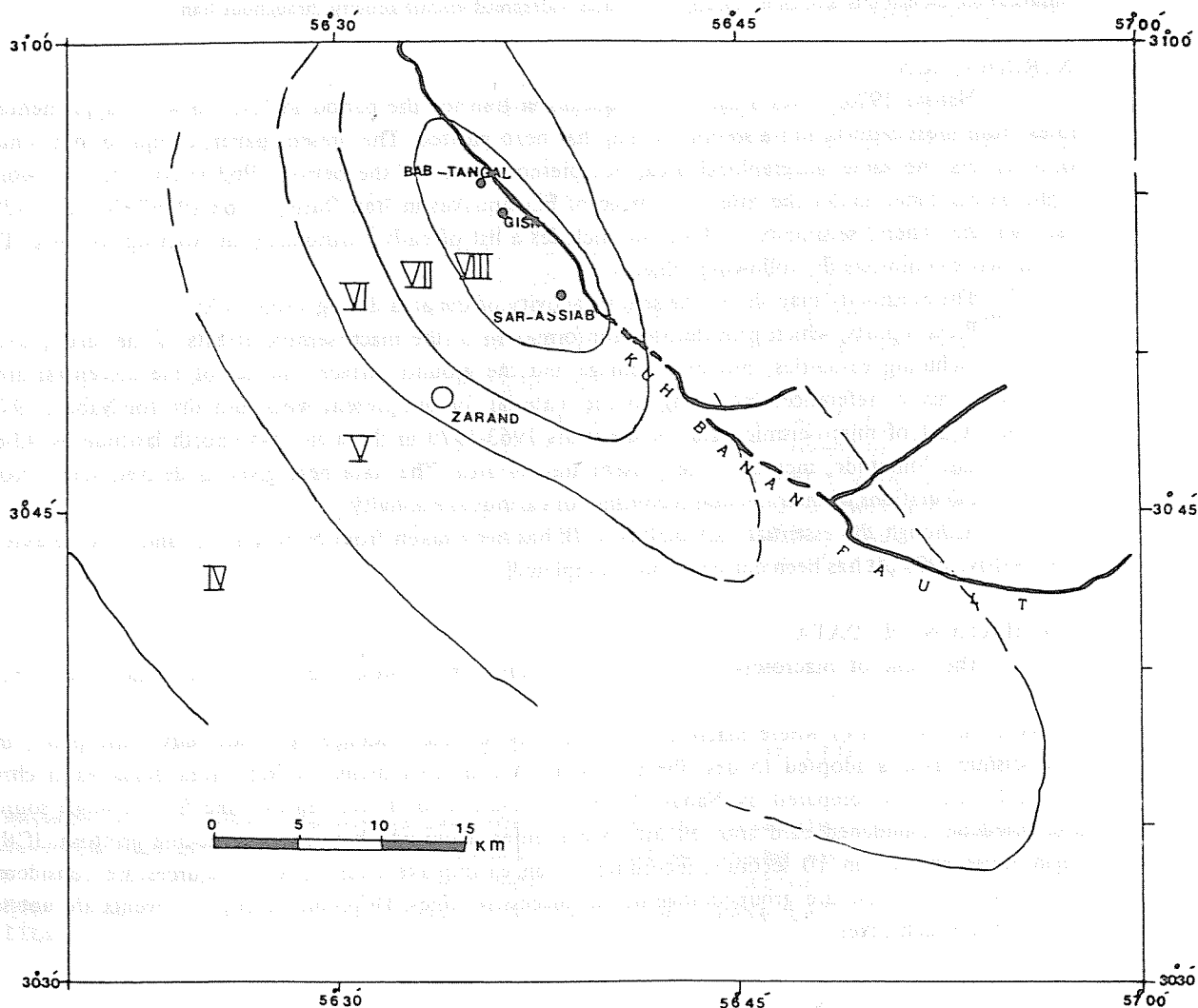


Fig. 6. - Isoseismal map of the epicentral region of the earthquake northwestern Kerman