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An airborne magnetometry study across Zagros collision zone along Ahvaz-Isfahan route in Iran

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Abstract

Convergence between the Eurasian and Arabian plates formed the Zagros orogenic belt between Late Cretaceous and Pliocene as a relatively young and active fold-thrust belt in Iran. The structural geology along Ahvaz to Isfahan route across Zagros is investigated employing magnetic data in order to determine the crustal structure in the collision zone of the two Palaeocontinents. Airborne magnetometry data with a line space of survey of 7.5 Km have been used to image the variations of the apparent magnetic susceptibility along this route. At first the airborne data were stably 500-m downward continued to the ground surface in order to enhance subtle

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