



Current deformation of the Betic Cordillera from a new GPS observation of the southern sector of the IBERIA95 Zero-Order Geodetic Network

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The Betic Cordillera, located at the convergent plate boundary between Africa and Eurasia, is subjected to an average NNW-SSE compression and an associated orthogonal extension. In order to quantify this deformation a GPS campaign in the Southern Sector of IBERIA95 Zero-Order Geodetic Network was done in December 2008. This network was observed in 1995 by the Spanish National Geographical Institute (IGNE) and the Portuguese Institute of Cartography and Cadastre (IPCC) for the establishment of a Three-dimensional Geodetic Network in Spain and Portugal. The comparison of results in 1995 and 2009 provides one of the first geodetic results of the short-term deformation in the Betic Cordillera.