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This volume presents the proceedings of the workshop “Geodynamics of the Western Part of the Eurasia-Africa Plate Boundary (Azores-Tunisia)”. held on May 31 to June 2, 2001, in San Fernando (Cadiz, Spain).

The Azores-Tunisia region is formed by the western part of the plate boundary between Eurasia and Africa. This plate boundary presents a complex nature due to its proximity to the pole of rotation of the African plate producing crustal extensions and normal faulting at the center part of the Azores-Gibraltar fault and plate convergence with reverse faulting at its eastern end. The collision of Iberia with northern Morocco produces complex phenomena with intermediate and deep earthquakes and an extensional regime at the Alboran sea. New evidence has been gathered in this region based on observations from geology, GPS measurements, seismology, paleomagnetism and gravimetry.

The volume is a selection of twelve representative papers presented at the workshop. Five papers deal with geological and tectonic structure of the region (Alpine belt of the Betic-Rif, Alpine Rif Belt of Morocco, frontal part of the Rif Cordillera and the Saiss Basin, Central Betic Cordillera, SW Iberian Passive Margin), four papers focus on seismology and seismotectonics (GEOALGAR Project, Ain Temouchent earthquake, seismicity of the Iberia-African boundary, local magnitudes in the Azores Archipelago), two papers address geodetic observation (Western Mediterranean and Europe, Azores triple junction) and one paper is devoted to new paleomagnetic data (Betic Cordillera). The volume offers a comprehensive selection of contributions treating the recent results of research in this complex region and can be recommended as a very valuable source of information for anyone interested in the geodynamic development of the plate boundary between Eurasia and Africa.

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