

PERI-TETHYAN BASINS TECTONICS

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In the framework of the Peri-Tethys Programme, we have studied peri-tethyan basins from Atlantic Ocean to Caspian Sea, on the northern margin, and Arabia, on the southern margin. These five years studies are summarized in a set of 24 paleogeodynamics maps at the scale of 1/10 000 000, from Moscovian to Quaternary, in which the tectonic evolution is represented. For each time slice depicted on a given map, either with the help of regional specialists or by collecting new data on the field, we have.. traced the active tectonic features, including normal faults, thrusts, etc. reconstructed paleostress directions from fault tectonic analyses;. analysed basin infilling and characterized tectonic or thermal subsidence axes; These data allow us to synthetise the history and tectonic evolution of peri-tethyan basins, to compare the age and style of basins mesozoic rifting. Then we date the tectonic events responsible for their inversions and the growing of foreland basins in relation with the kinematic of tethyan domains. Dating the major tectonic events that occurred along the tethyan margins, we propose a model for tectonic evolution of the peri-tethyan domain, stressing the difference of behaviour between the northern and southern platforms and the links with the development and historical subsidence of the basins.