

LINEAMENTS OF PRE-HERCYNIAN PLUTONIC ROCKS IN IBERIA

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Discrete isotope data (Rb-Sr, Sm-Nd, U-Pb) from plutonic, mostly acid rocks occurring in Iberia pointing out ages around 400 Ma or older seem to form long, in general arcuate lineaments extending for hundreds of km (for instance from Galicia to southern Spain); two main trends (approximately NW - SE and NE – SW) may be detected. In some cases these lineaments are spatially associated to limits of geotectonic zones found in the Peninsula, as in the case of the limit Central Iberian Zone – Ossa-Morena Zone. Correlation of the pattern distribution of these data and lineaments in Iberia with other areas in Europe, namely the Armorican massif, are tentatively made. Other pre-Hercynian lineaments defined by non-acid rocks in Iberia are also taken into consideration for comparison. It is suggested that any interpretation of the tectonic history of the Iberian Peninsula should take into account these data, however preliminary.