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Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR



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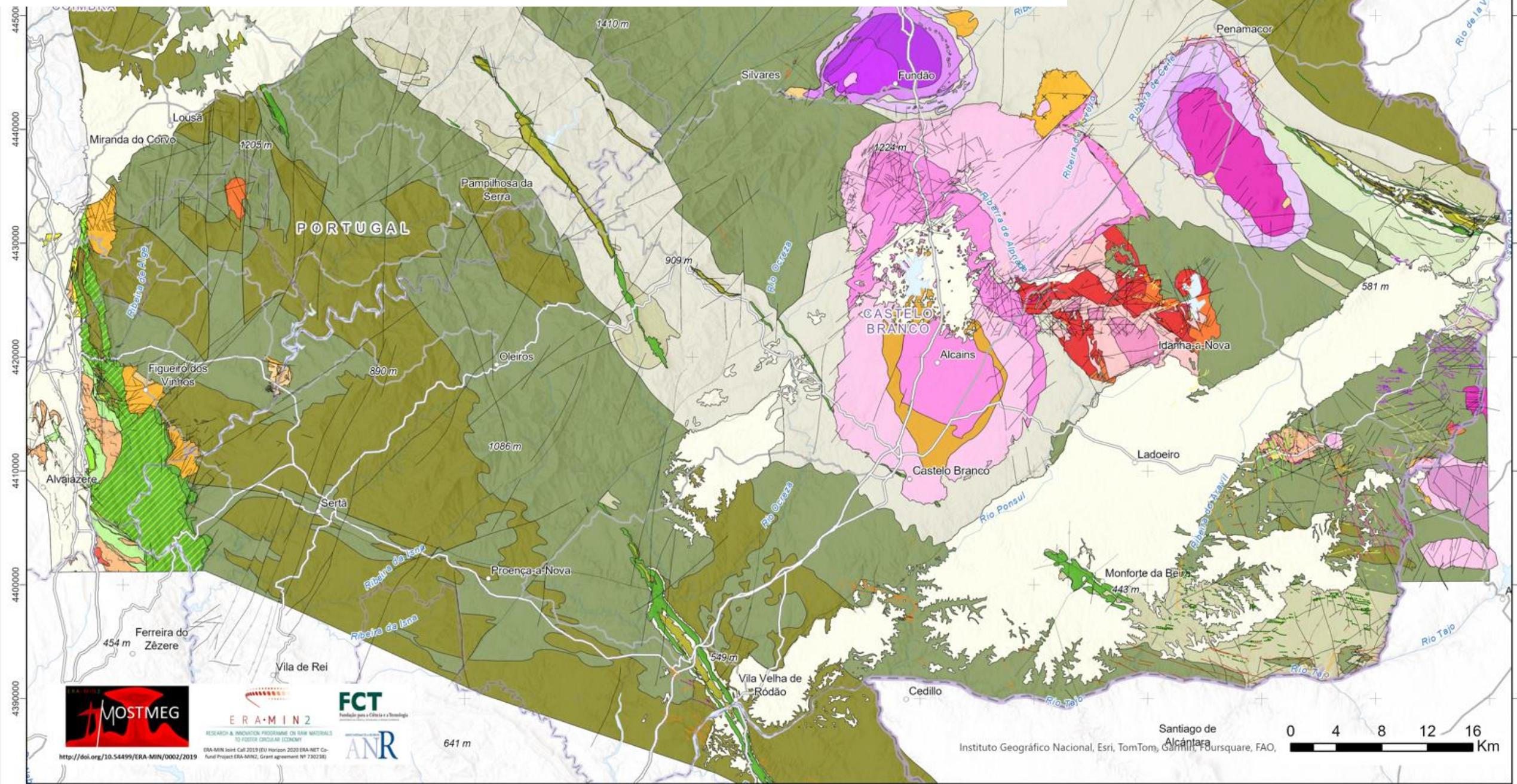
What is the relevance of mapping regional shear zones? What constraints do these structures impose to the delimitation of Sn-W and Li-rich systems?

Ícaro Dias da Silva; António Mateus;

Ivo Martins; L. Miguel Gaspar

Michel Cathelineau; Marie-Christine Boiron

Geological map of Góis-Panasqueira-Argemela-Segura strip





Abundant

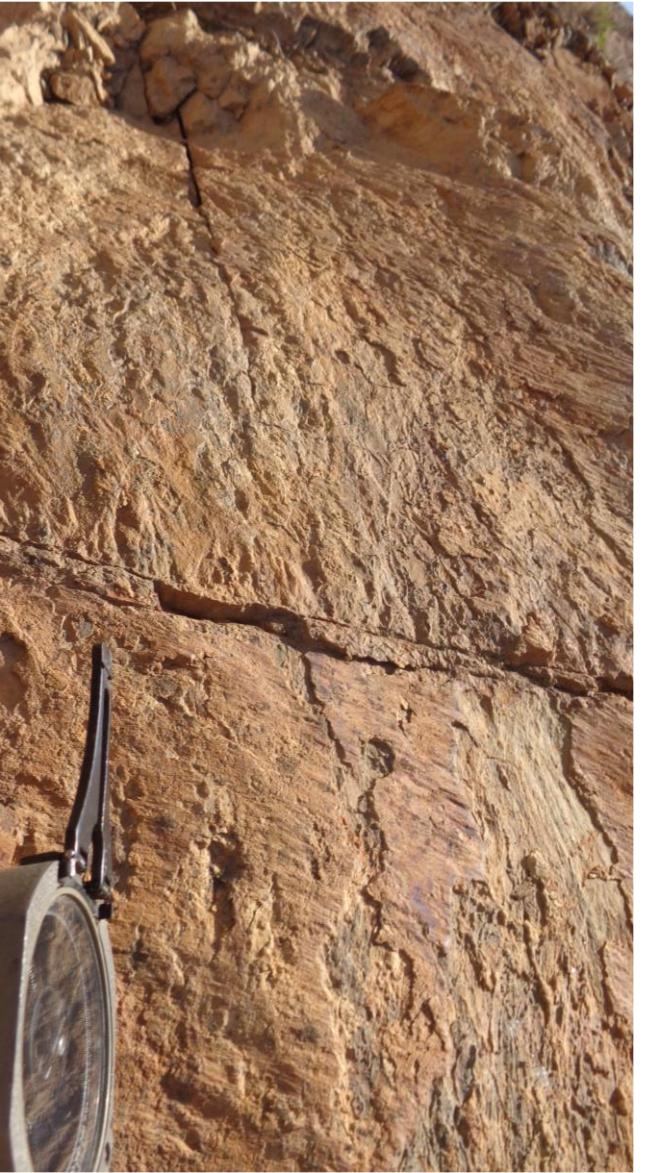
- **Ductile/semi-brittle shear zones**
 - (Proto-)mylonites preserved
 - Different arrays of subsidiary structures
 - Multi-stage reactivation
 - Recurrent multi-phase quartz-infillings, occasionally bearing sulphides ($py \pm sph \pm apy$)
- **Strike-slip fault zones**
 - Cataclasites, quartz infillings in releasing bends, breccias (at times mineralised; Pb-Ba in Segura), fault-gouges, ...
 - Splays of secondary structures
 - Multi-stage reactivation (always in brittle regime); multiple slienlines; occasional R-R', ...



Abundant

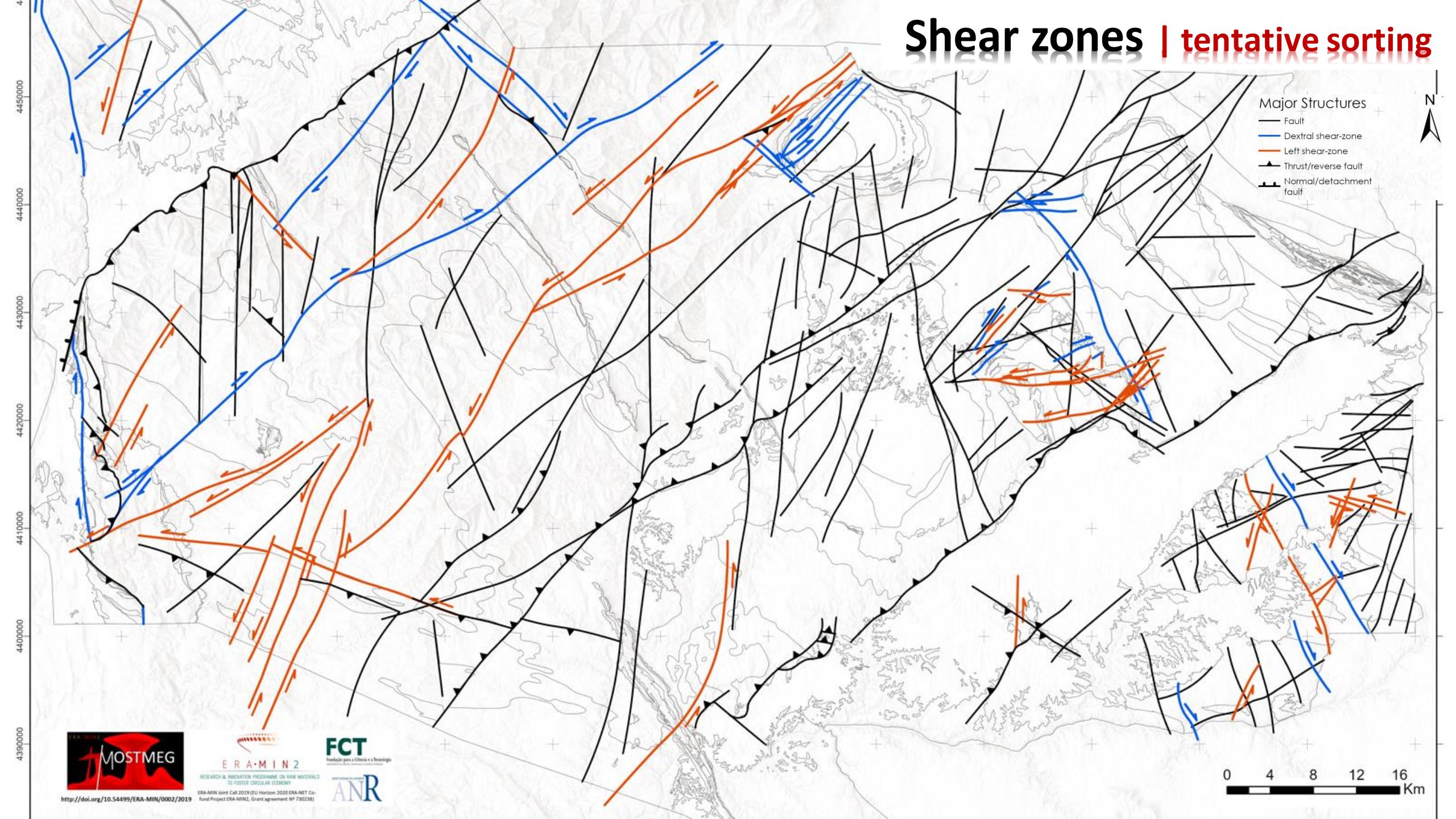
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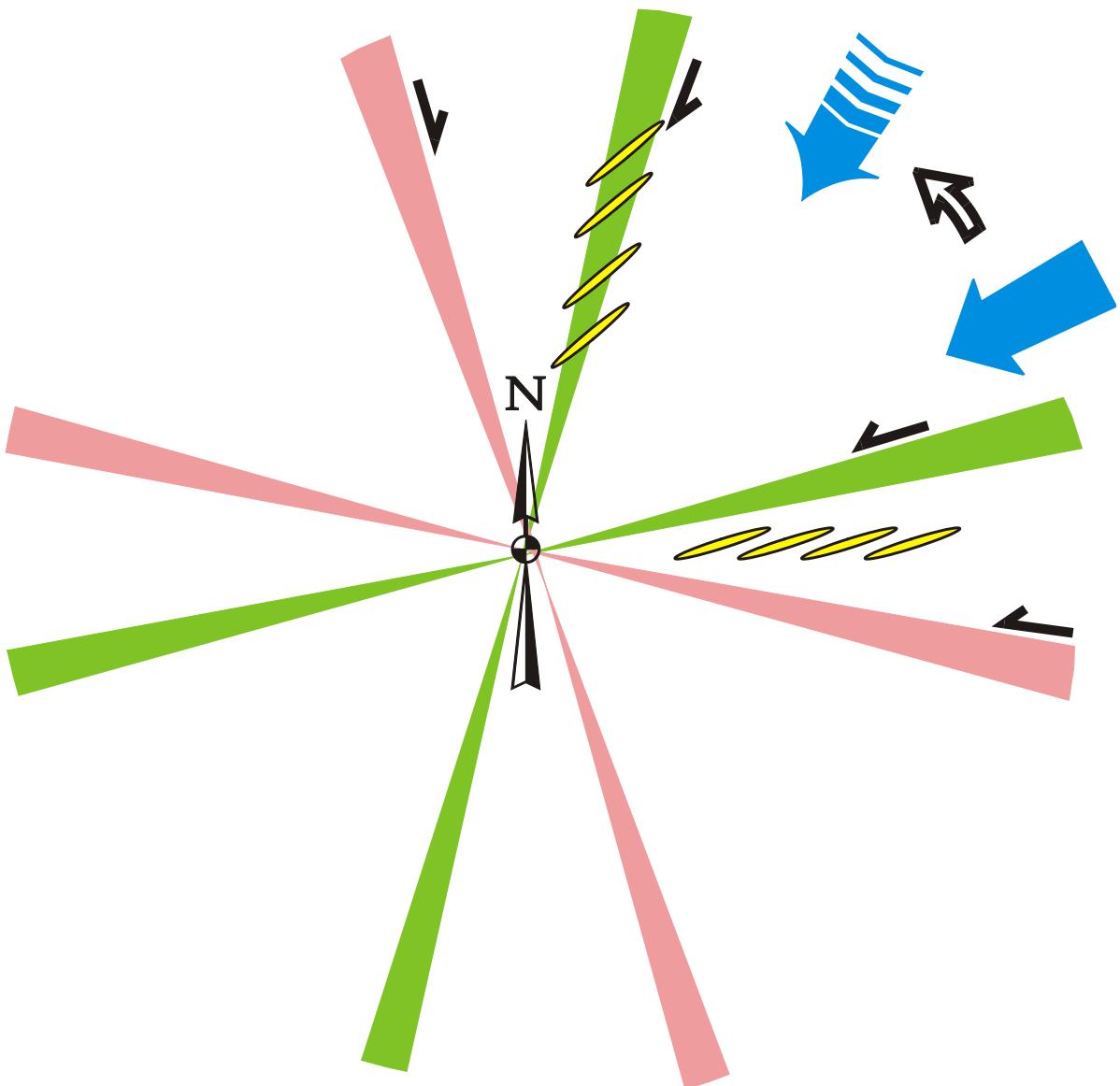




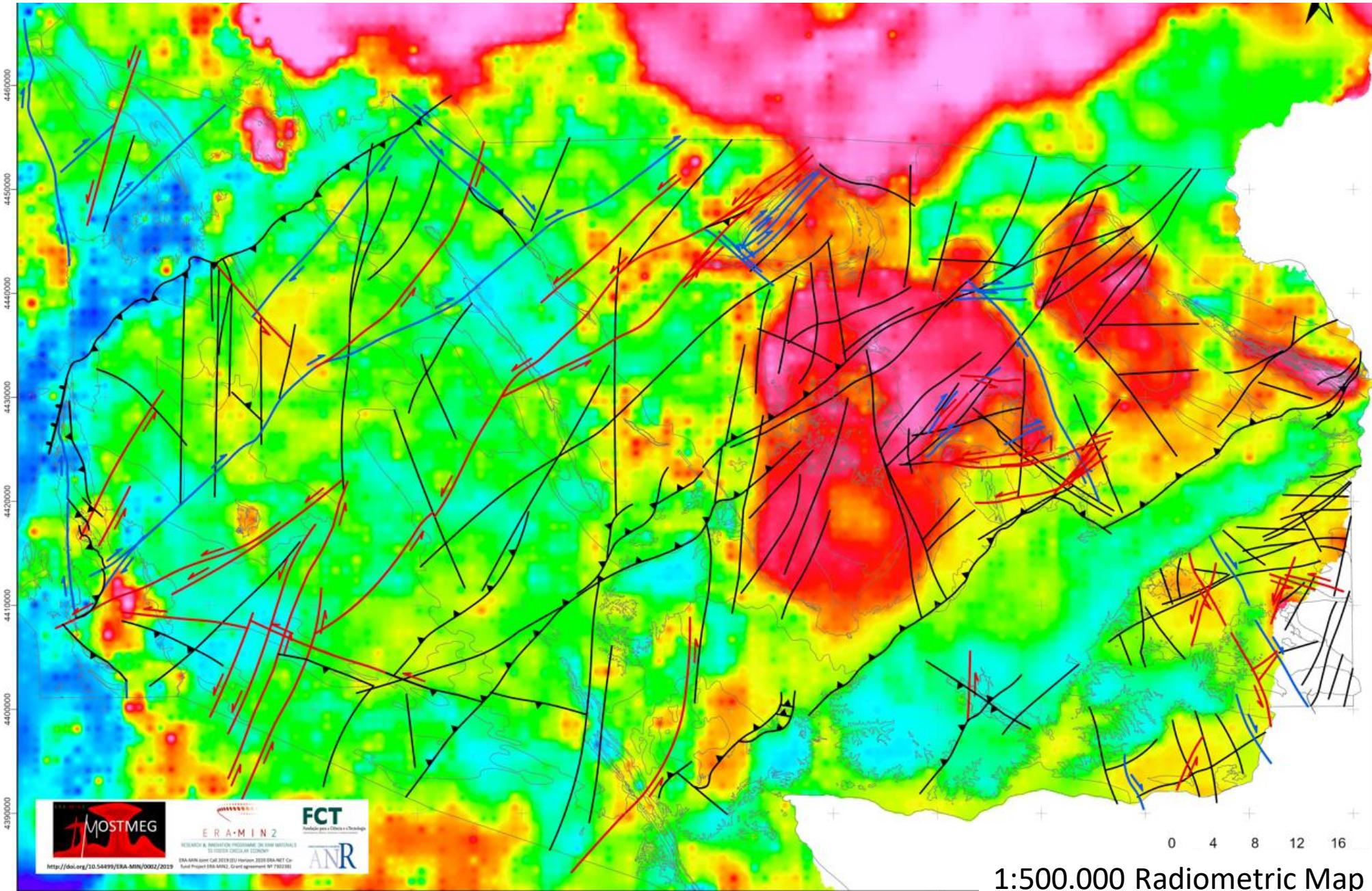


Shear zones | tentative sorting





Shear zones | could they influence the rising/emplacement of orogenic silicate melts?



1:500.000 Radiometric Map (LNEG)

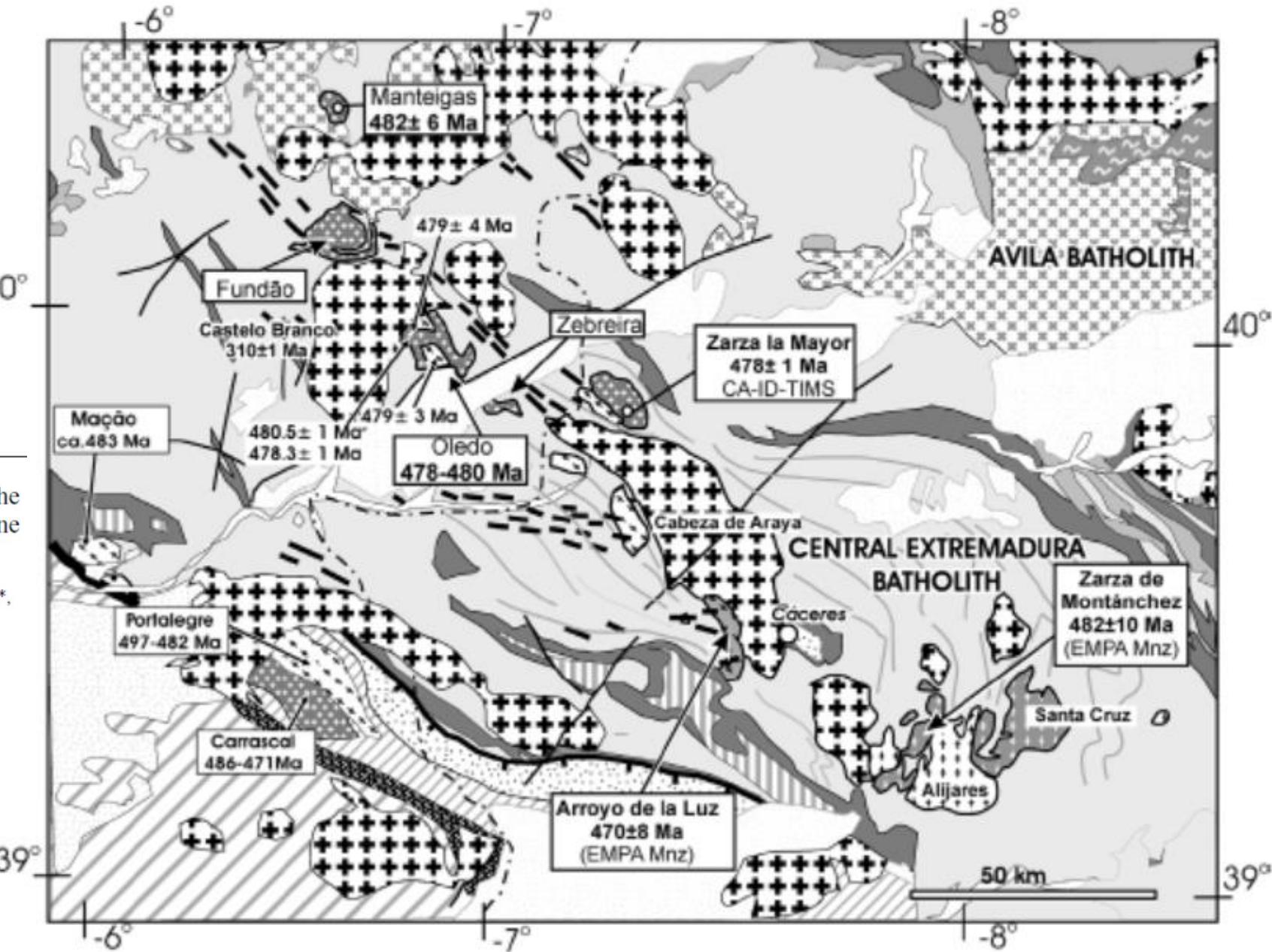
NW-SE direction?

Geol. Mag. 149 (5), 2012, pp. 927–939. © Cambridge University Press 2012
doi:10.1017/S0016756811001129

RAPID COMMUNICATION

An Early Ordovician tonalitic–granodioritic belt along the Schistose-Greywacke Domain of the Central Iberian Zone (Iberian Massif, Variscan Belt)

A. RUBIO-ORDÓÑEZ*, P. VALVERDE-VAQUERO†‡, L. G. CORRETGÉ*,
A. CUESTA-FERNÁNDEZ*, §, G. GALLASTEGUI†,
M. FERNÁNDEZ-GONZÁLEZ§ & A. GERDES||

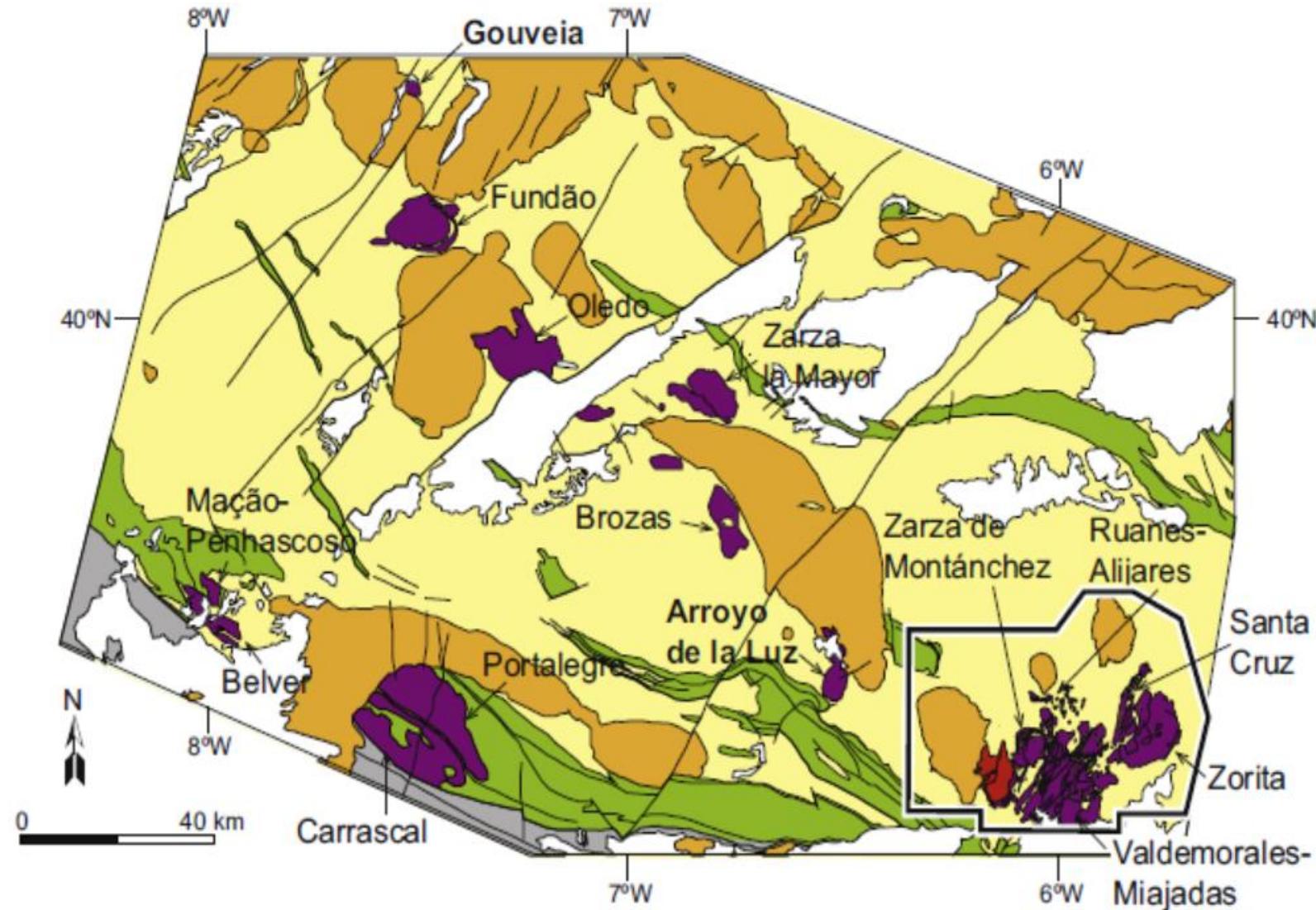




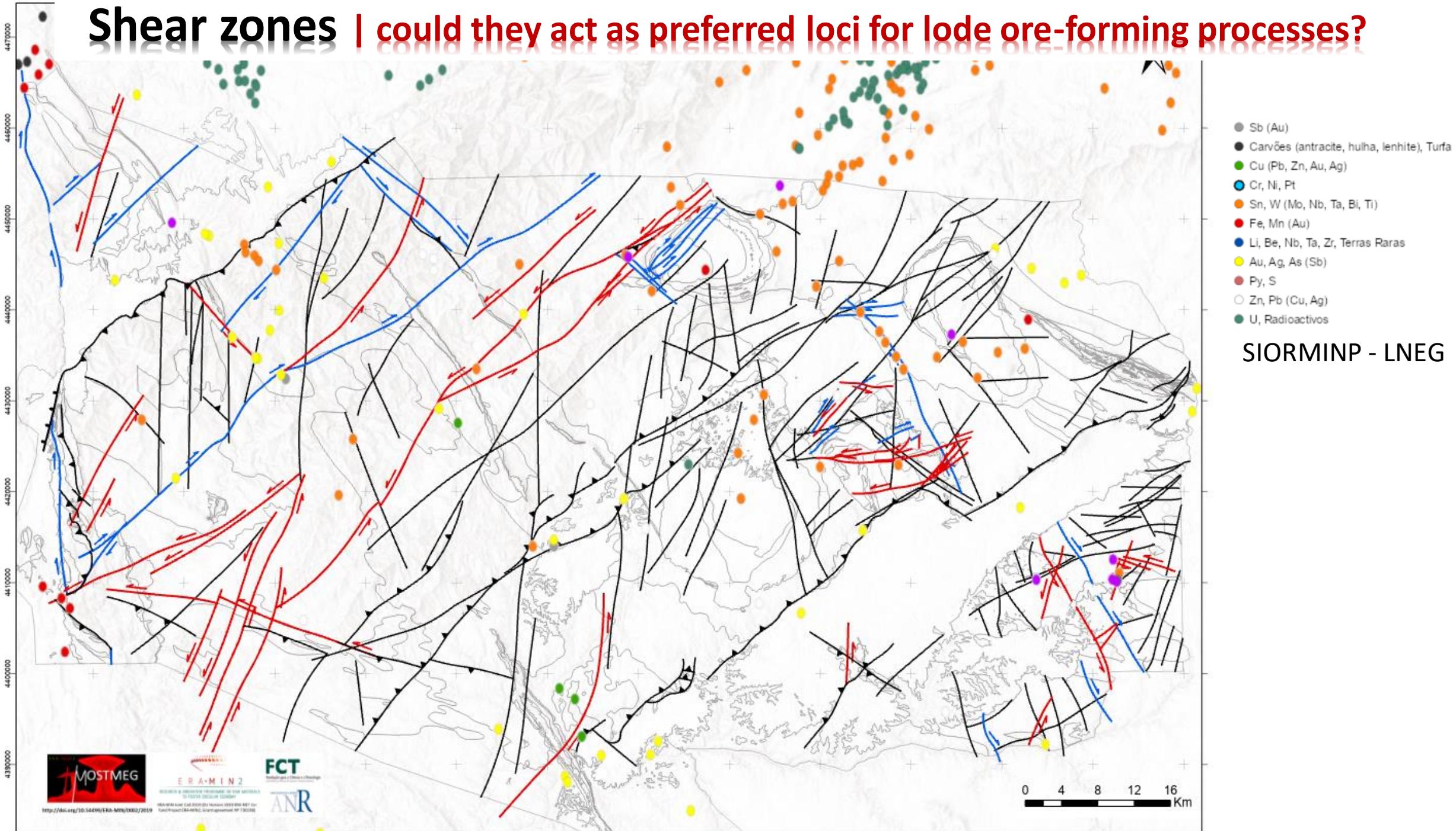
Research Article

Atypical peri-Gondwanan granodiorite-tonalite magmatism from Southern Iberia. Origin of magmas and implications

Antonio Castro ^{a,b,*}, Manuel F. Pereira ^c, Carmen Rodríguez ^d, Carlos Fernández ^f

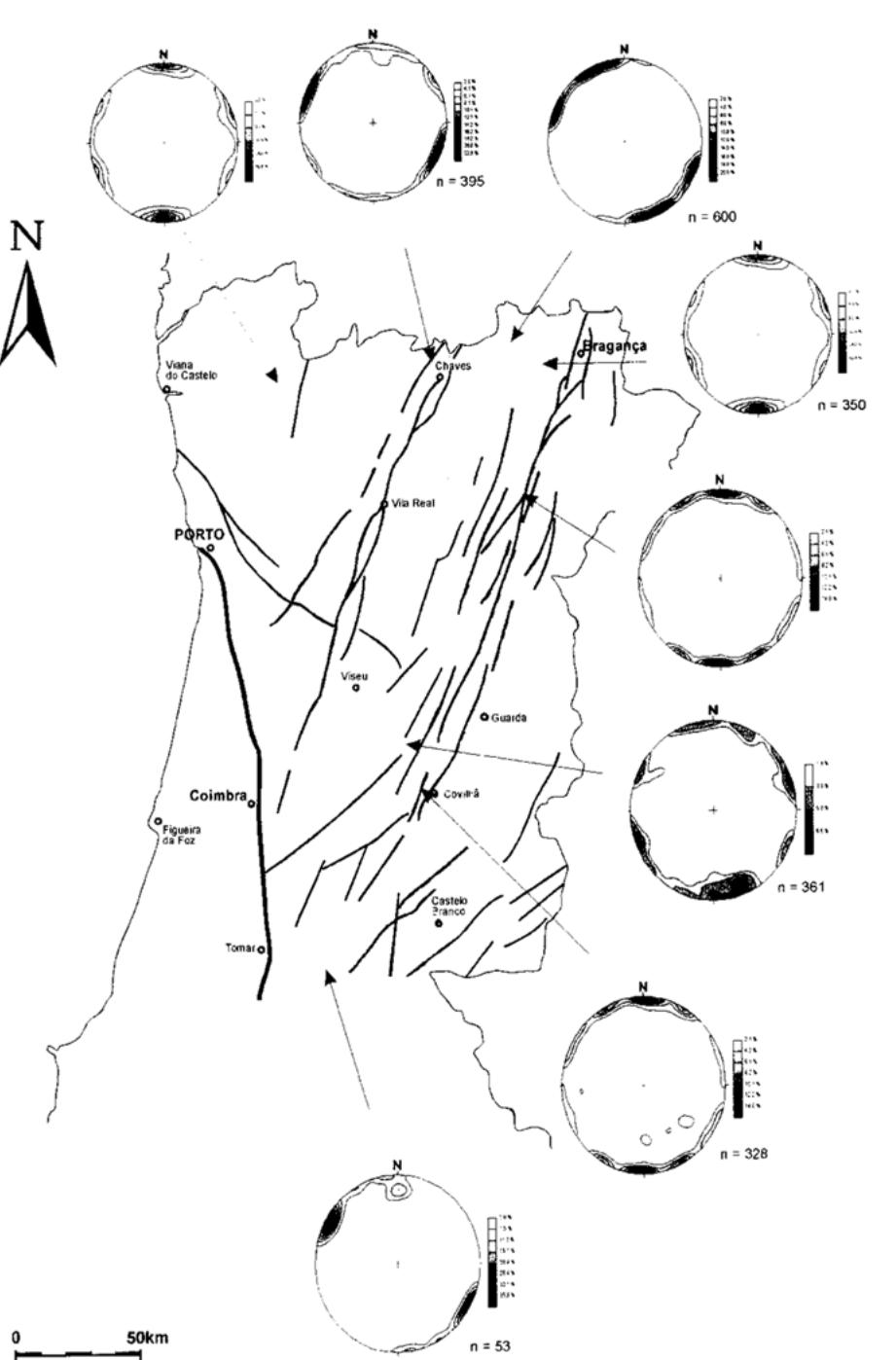


Shear zones | could they act as preferred loci for lode ore-forming processes?



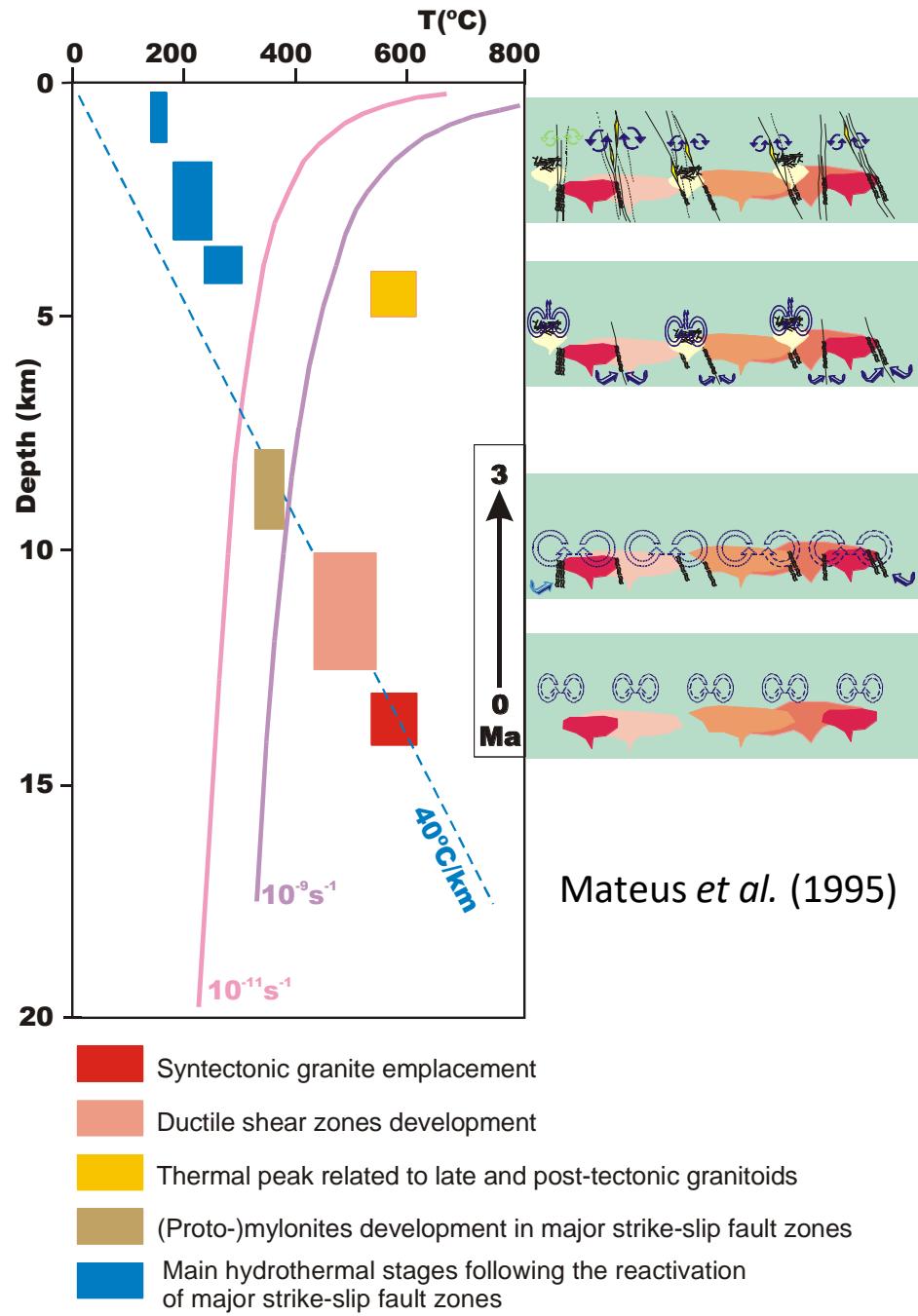
The Late-Variscan strike-slip fault network

*an important fluid circulation
paleosystem*

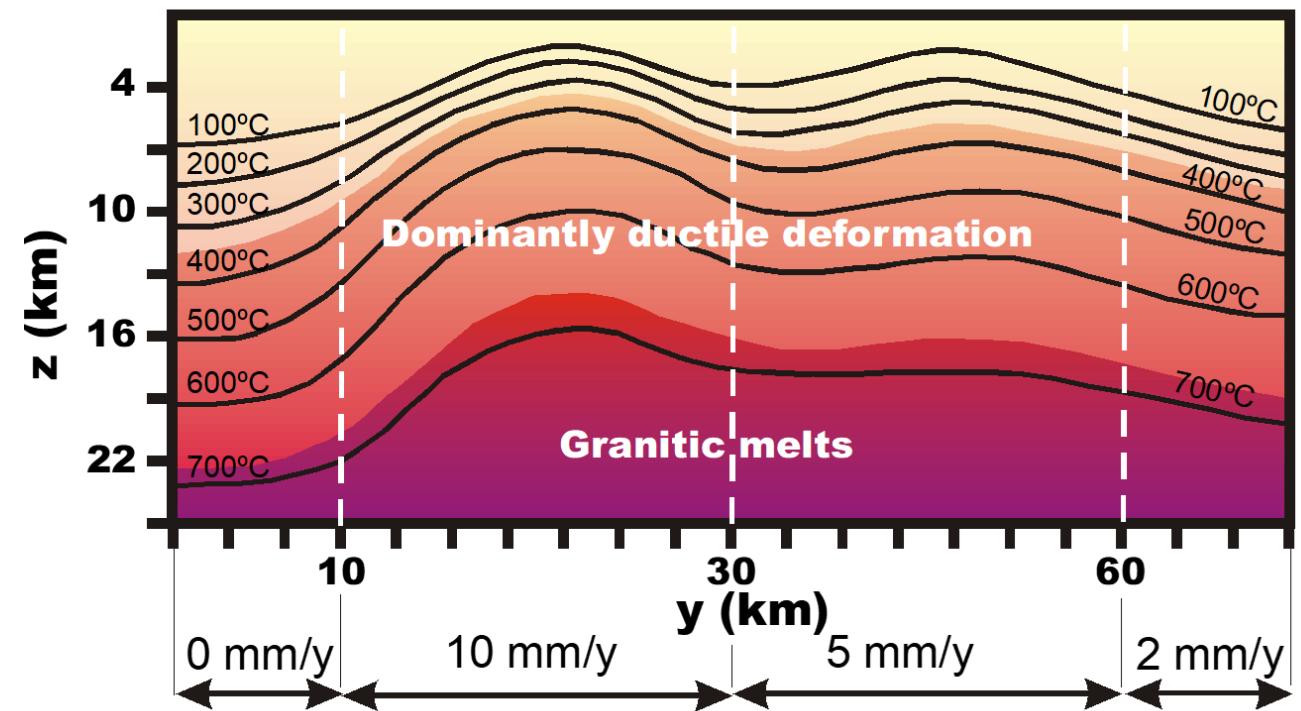


in Marques et al. (2001)



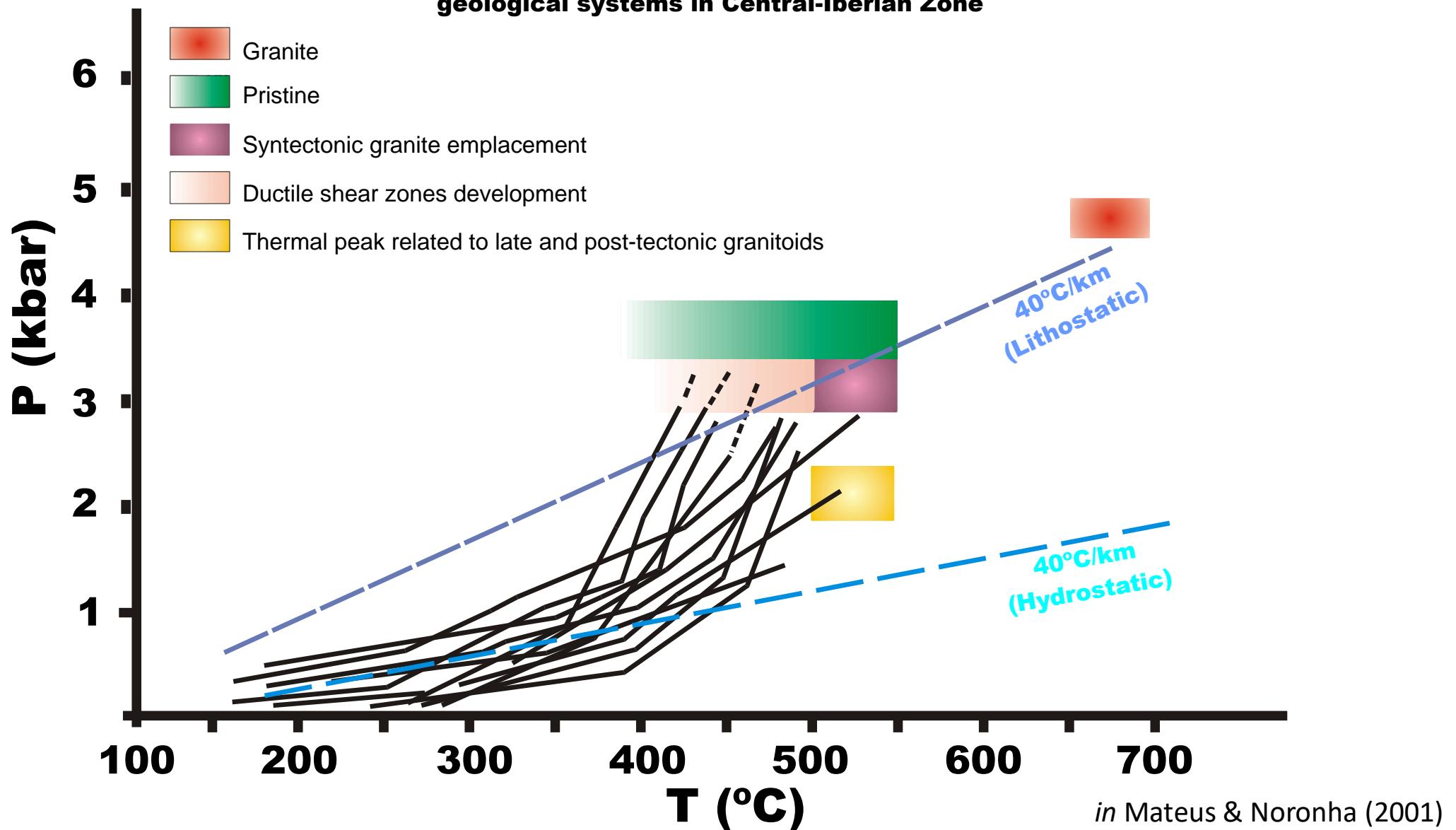


Composite 2D heat diagram, considering different uplift rates from W to E and $t = 3$ Ma

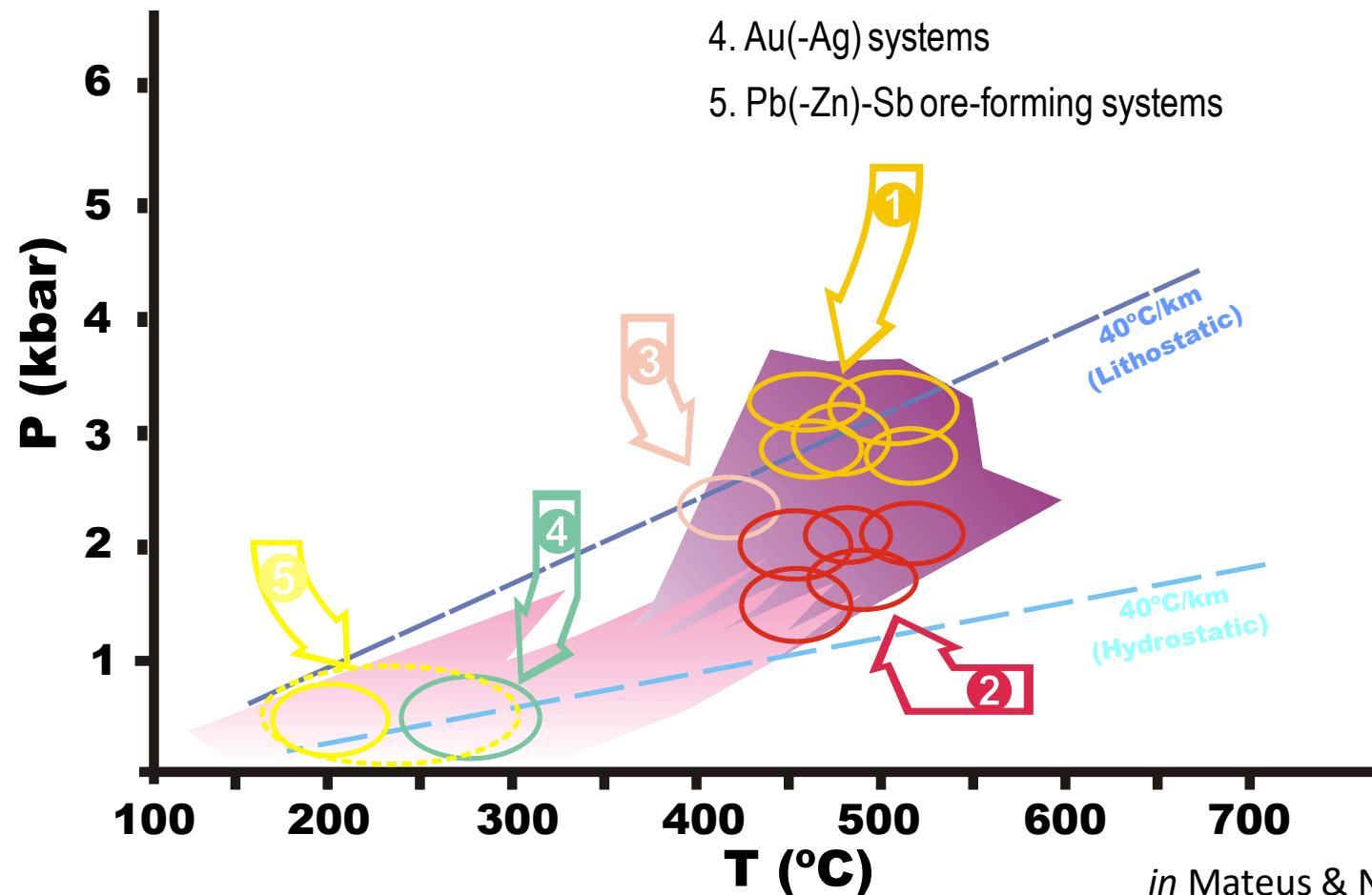


in Mateus & Noronha (2001)

Schematic representation of the P-T evolution recorded for several geological systems in Central-Iberian Zone



1. Early Sn-, P- and Li-(Fe, Mn, Nb, Ta)-bearing pegmatites, W-skarn and Sn(-W) lode deposits;
2. Late W-(Sn) lode systems and W-skarns intimately related to late and post-tectonic granitoids
3. Early hydrothermal precipitates within reactivated major shear zones
4. Au(-Ag) systems
5. Pb(-Zn)-Sb ore-forming systems





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Thank you for your attention!

Variscan granite affected by arrays of shear-controlled qz+tour+ms veins (Alcains)