

Evidence of crust-doming in the Mesozoic rifting of the NW Iberian Chain (Spain)

T. Sanz, M. Lago, A. Gil, A. Pocoví, T. Ubide, C. Galé, P. Larrea, P. Tierz

Earth Sciences Department, University of Zaragoza, 50009-Zaragoza, Spain contact: tomassanzserrano@gmail.com



Universidad Zaragoza

TS5.1/GD4.4/GMPV35/SM2.9- Continental rifting & mid-ocean ridges: the role and mechanisms of tectonics, mantle dynamics, sedimentation

and magmatism

NW margin of the Iberian Chair lacement of magmatic bodies in the NW margin of the Iberian Chain.



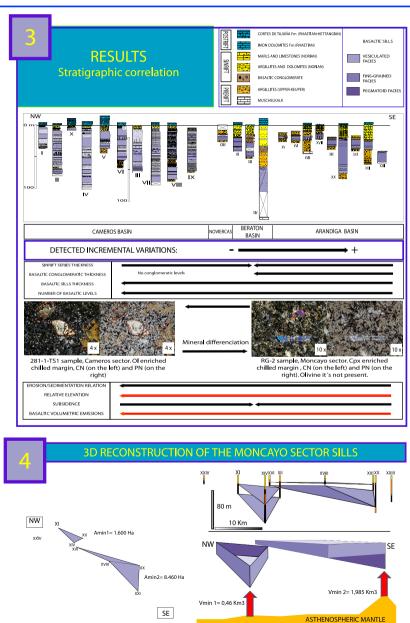
INITIAL OUESTIONS

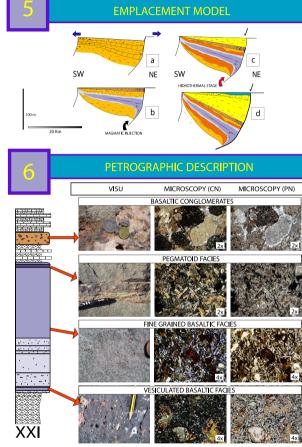
Is there a single big igneous boo nplaced along the iberian rift? Ca fine different bodies? How

which alobal tectonic conte d these igneous rocks emplace oes the Neothetys ocean really trig

LOCATION STUDIED SECTORS: C: CAMEROS BASIN M: MONCAYO MASSIF RIOJA MESOZOIC Quaternary Tertiary Marine Jurassi Upper Triassic

ACKNOWLEDGEMENTS:





CONCLUSIONS

- 1) According to their mineral assemblage, these basalts are alkali basalts with an asthenospheric mantle source.
- place in the NW margin of the Iberian Rift (Sierra de Cameros), in agreement with:

 a) The geochemical affinity of the intruded magma.

 - b) The high thickness of the igneous bodies.