Finally, the zonation of metamorphic facies and individual pt-paths predicted by the numeri- Beaumont, C. & Quinlan, G. (1993): A geodynamic cal model are compared to field data from the Variscan and Alpine orogens of Central Europe.

framework for interpreting crustal-scale seismic-reflectivity patterns in compressional orogens. Geophys. J. Int., 116, 754-783.

Paleomagnetic data as indicator of folding propagation in Southern Urals

S.V. SHIPUNOV & N.B. KOUZNETSOV

Geological Institute, Russian Academy of Sciences, Moscow, svshipunov@britannica.com, kouznikbor@geo.tv-sign.ru

Main task of our research is the reconstruction of sion activation of many tectonic events during folding history of Southern Urals. This investigathe Late Paleozoic (orogeny, intensive folding tion is based on study of well-known secondary deformation, thrusting, metamorphism, meta-Late Paleozoic remanence in Neoproterozoic and somatism, katamorphism, rejuvenation of isoto-Paleozoic rocks from the Southern Urals and uses pic data). A number of geological data shows pospre-, syn- and postfolding components.

Determining a degree of folding (dip of layers of these processes from the east to the west. in per cent) at the time of secondary overprint it secondary magnetizations with path for the East European platform (Khramov 1991, Torsvik et al. 1992, Van der Voo 1993, Permian. This estimation based on paleo- Urals. magnetic data is in agreement with time of colli-

sibility of propagation and decrease in intensities

Late Paleozoic component of remanence in is possible to interpret one in terms of temporal Neoproterozoic and Paleozoic rocks from westand spatial propagation of folding (Stamatakos, ern, south-western and northern areas of Hirt, Lowrie, 1996; Shipunov, 1997). Comparison Bashkirian anticlinorium and areas of Southern of the paleomagnetic pole positions of Late Paleo- Preuralian acquired as a rule some prefolding a time. In contrast, for sites from central and easttime-averaged reference apparent polar wander ern areas of Southern Urals, the Late Paleozoic component acquired syn- and postfolding time. This pattern reflects folding propagation during Pechersky and Didenko 1995, Molostovsky and the Late Carboniferous-Early Permian from the Khramov 1995, Smethurst et al., 1998) shows east to the west for southern parts and from the that rocks within the southern Urals were south (central part of Bashkirian anticlinorium) remagnetized in the Late Carboniferous-Early to the north for northern parts of the Southern

Structural analysis of seismic data in the Baltic Basin: evidences for Silurian-Early Devonian intra-plate compression in the foreland of Caledonian orogen

S. SLIAUPA¹, P. POPRAWA² & J. JACYNA³

¹Institute of Geology, Vilnius, Lithuania, sliaupa@geologin.lt ²Polish Geological Institute, Dept. Region & Petrol. Geol., Warszawa, Poland, ppop@pgi.waw.pl ³Geological Survey of Lithuania, Dept. Backgr. Geol., Vilnius, Lithuania, juozas.jacyna@lgt.lt

From the Tornquist-Teisseyre Zone and Basin constituted the foredeep of the North (Sliaupa 1999).

The Baltic Basin is a Late Vendian-Phanerozoic German-Polish Caledonides, which having been poligenetic sedimentary basin, developed at the thrust over of the western margin of the Baltica western margin of the East European Craton. plate caused its flexural bending (Poprawa et al. west it is bordered by the 1999). Simultaneously, the foredeep basin devel-North oped in front of Scandinavian Caledonides German-Polish Caledonian Deformation Front. (Middleton et al. 1996) which also influenced the During (?Late Ordovician) Silurian the Baltic structural development of the Baltic Basin