



Slovenská geofyzikálna konferencia
Bratislava, 22. - 23. júna 2011



NOVÉ VÝSLEDKY HLBINNEJ GEOFYZIKÁLNEJ INTERPRETÁCIE KARPATSKO-PANÓNSKEJ LITOSFÉRY

Miroslav Bielik

Vozár J., Alasonati Tašárová Z., Guterch, A., Janik T., Grad M., Zeyen H., Goetze H.,
Minár J., Kováč M., Csicsay K, Grinč, M.



Slovenská geofyzikálna konferencia

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Obsah

- **VÝSLEDKY INTERPRETÁCIE SEIZMICKÝCH REFRAKČNÝCH MERANÍ CELEBRATION 2000**
- **VÝSLEDKY INTERPRETÁCIE TIAŽOVÉHO POĽA V OBLASTI CELEBRATION 2000**
- **VÝSLEDKY INTEGROVANEJ GEOFYZIKÁLNEJ INTERPRETÁCIE**
- **VÝSLEDKY APLIKOVANÉ PRI GEOGRAFICKEJ A GEOLOGICKEJ INTERPRETÁCII**



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Bratislava, 22. - 23. júna 2011

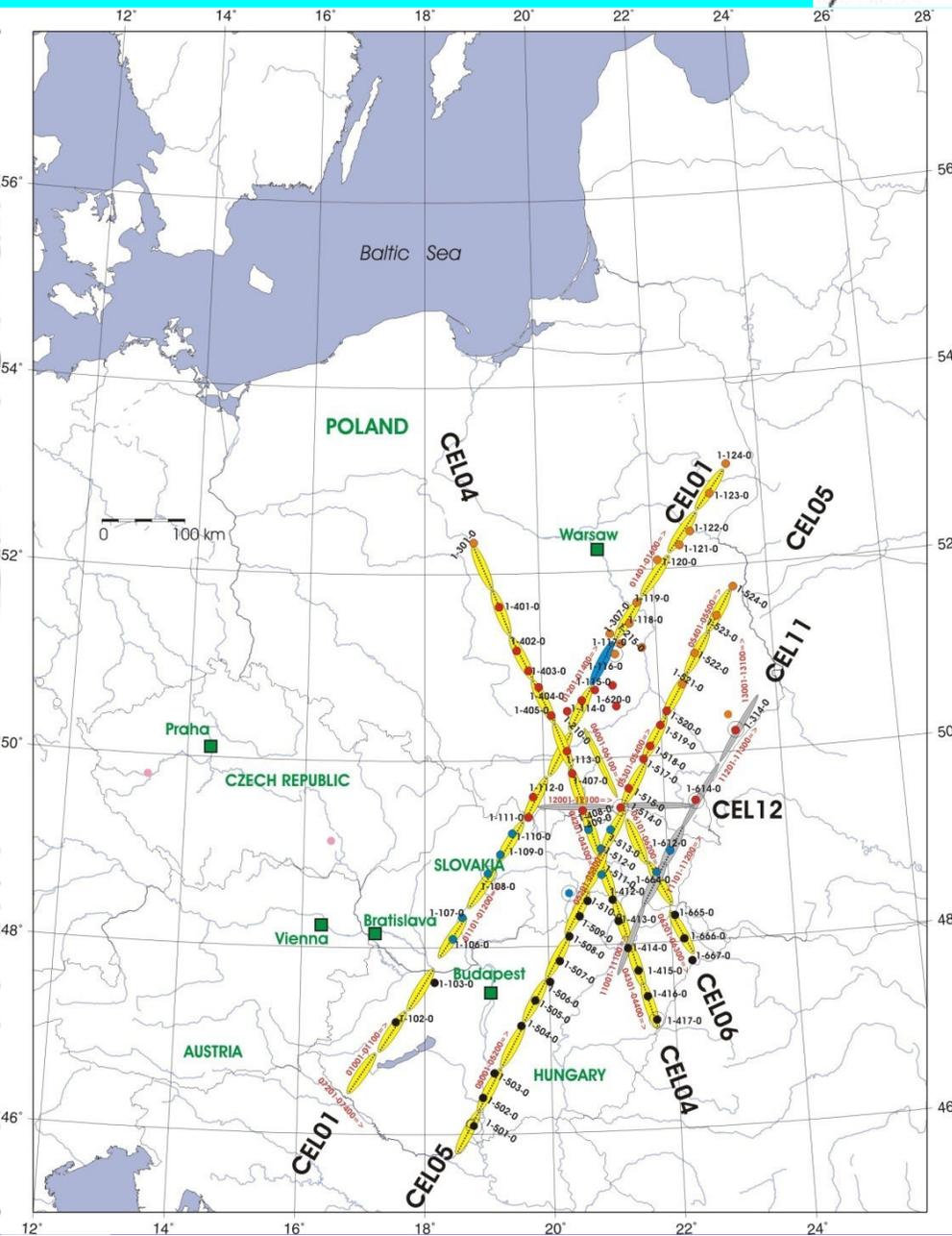
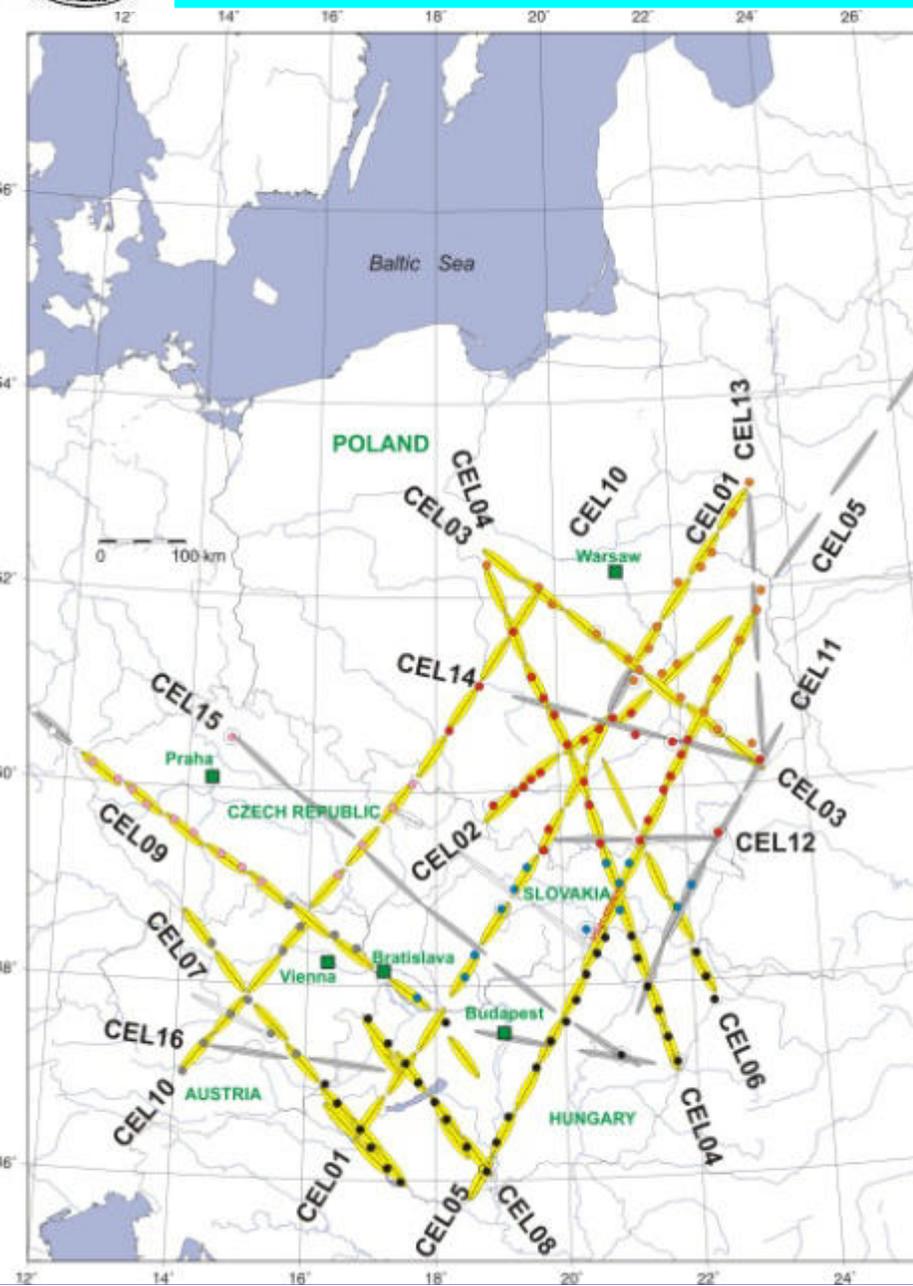


VÝSLEDKY INTERPRETÁCIE SEIZMICKÝCH REFRAKČNÝCH MERANÍ CELEBRATION 2000

Journal of Geodynamics 52 (2011) 97–113

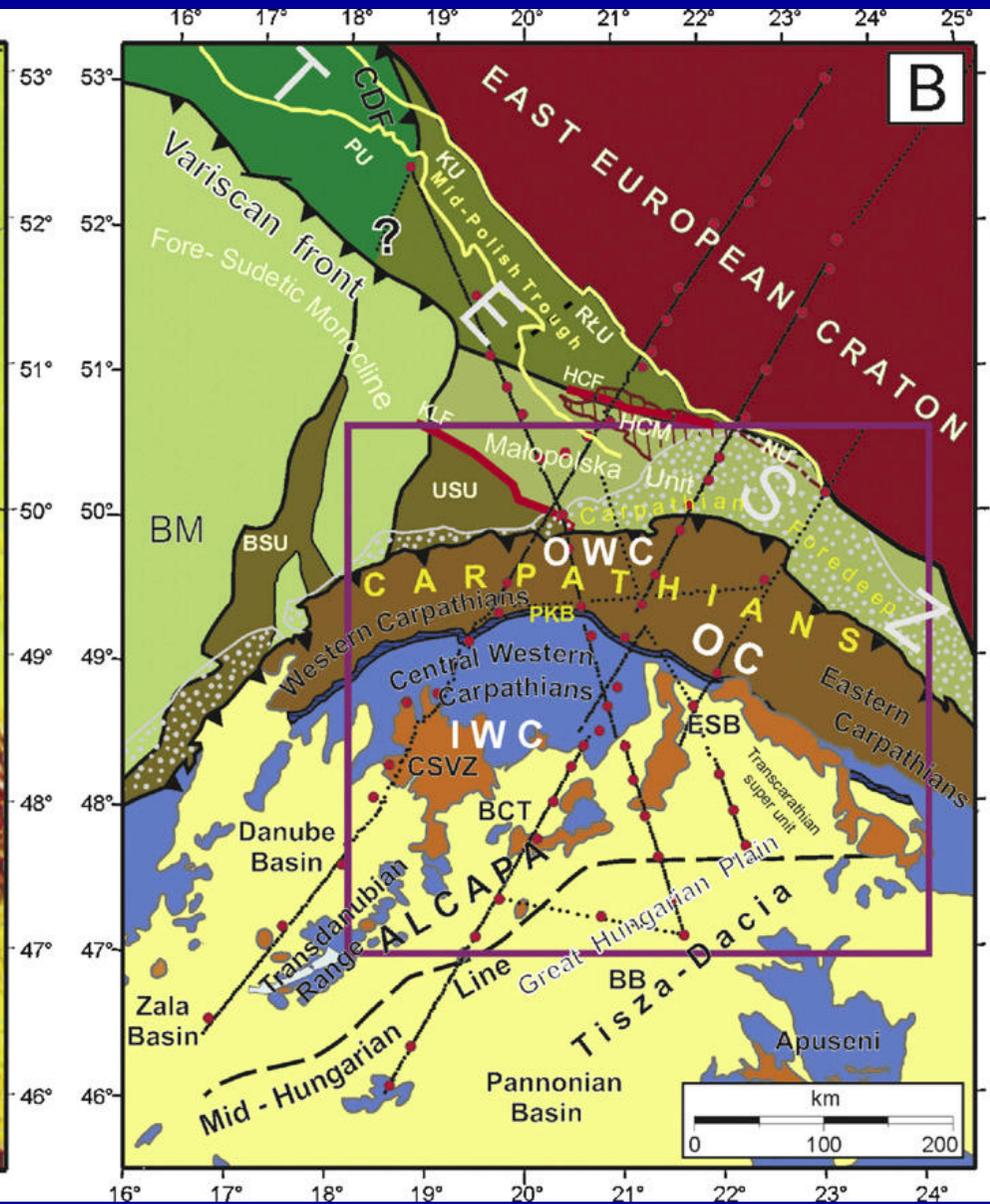
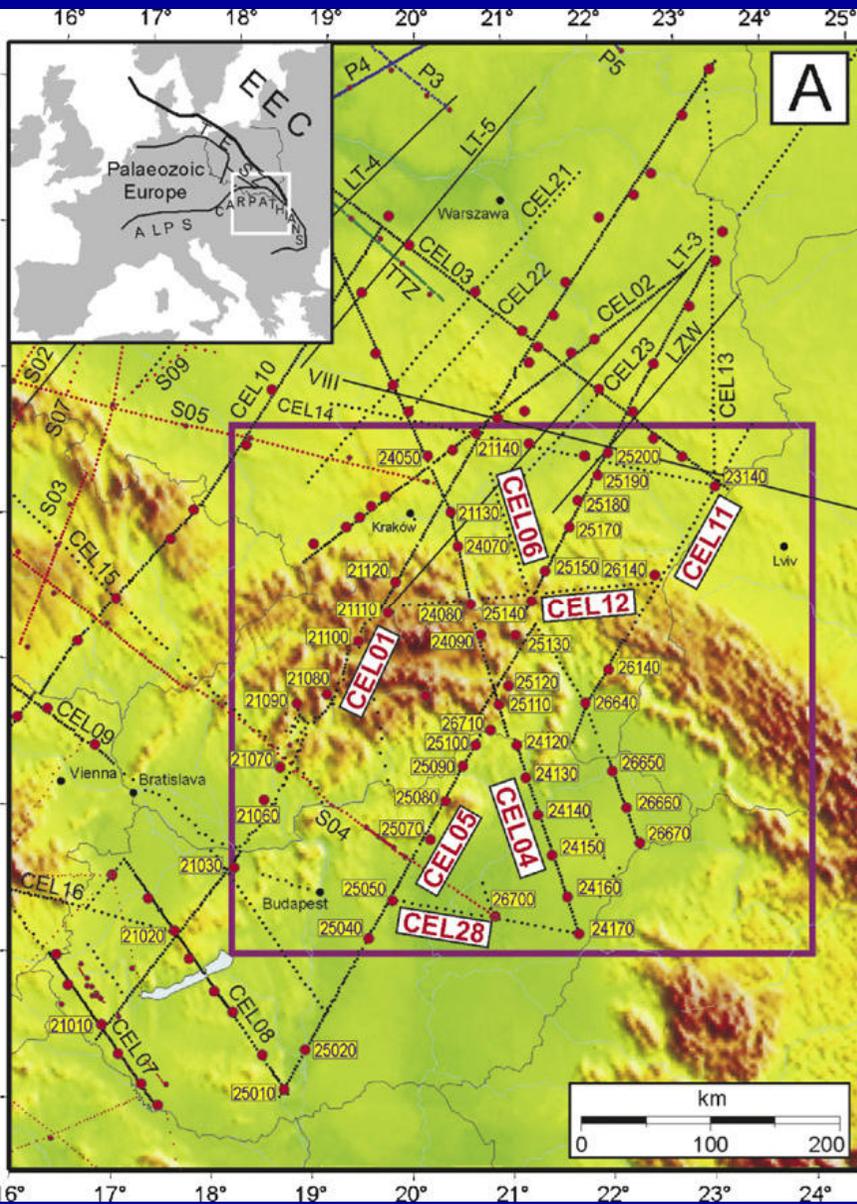


LOCATION OF CELEBRATION 2000 SEISMIC PROFILES



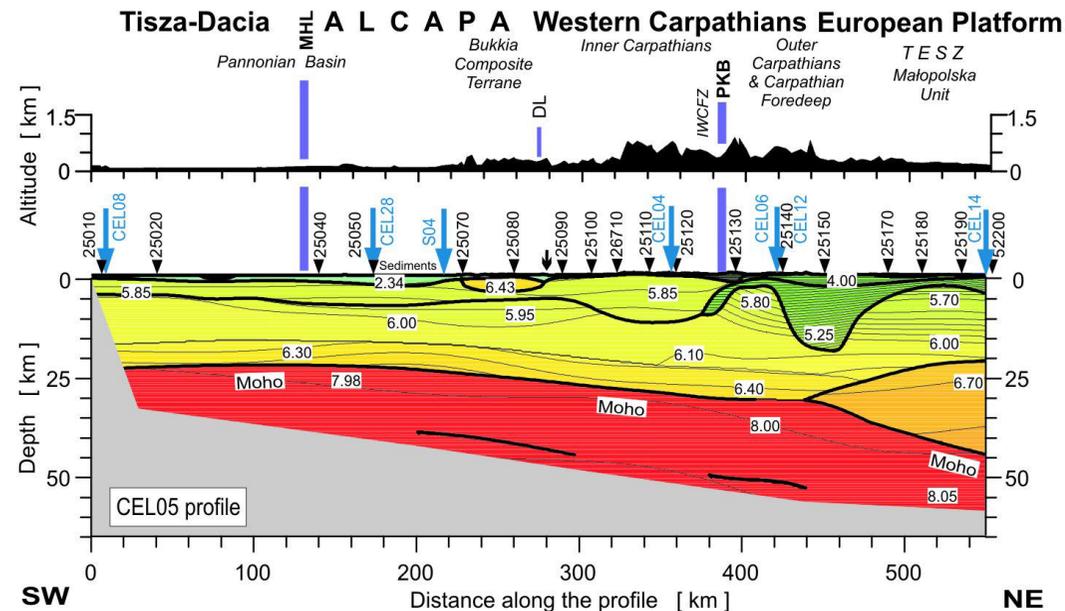
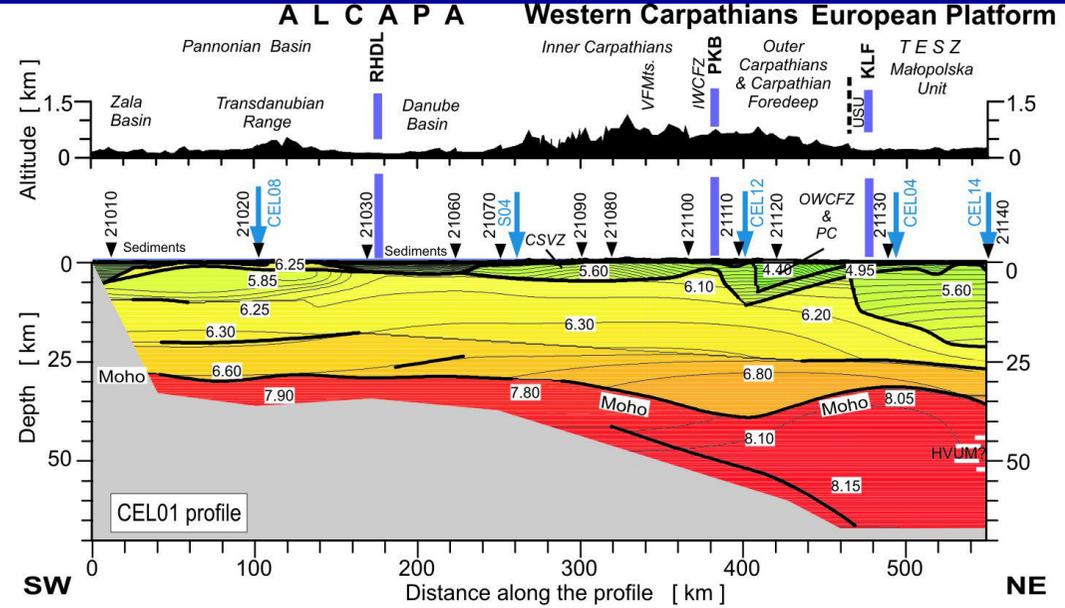
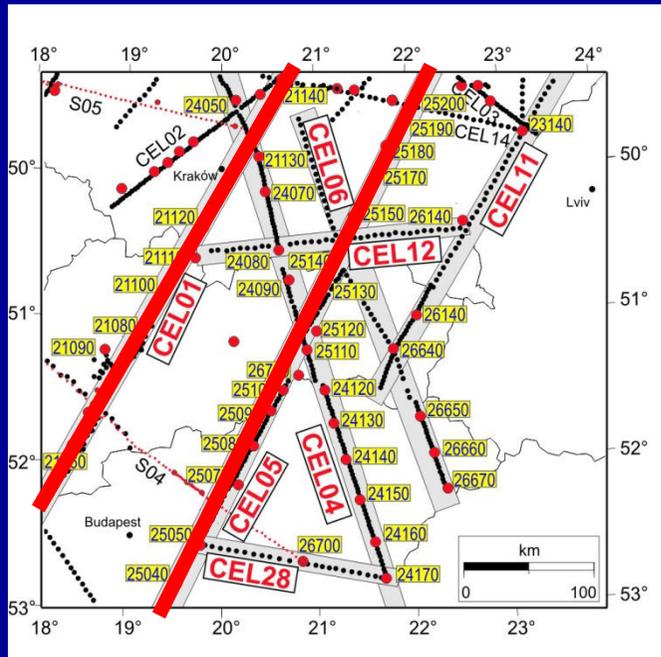


LOCATION OF CELEBRATION 2000 SEISMIC PROFILES



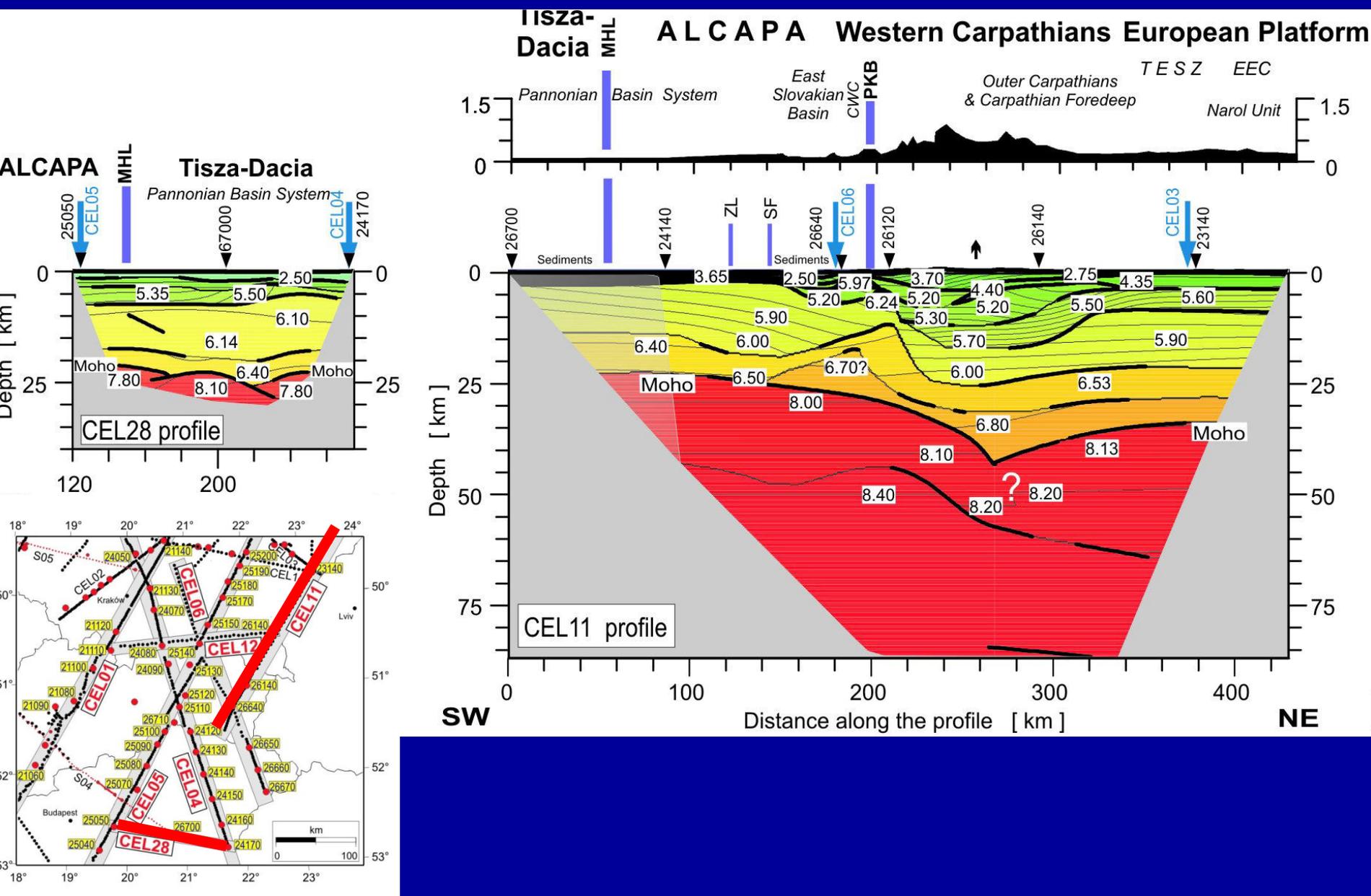


2D MODELS OF SEISMIC P-WAVE VELOCITY IN CRUST AND UPPERMOST MANTLE



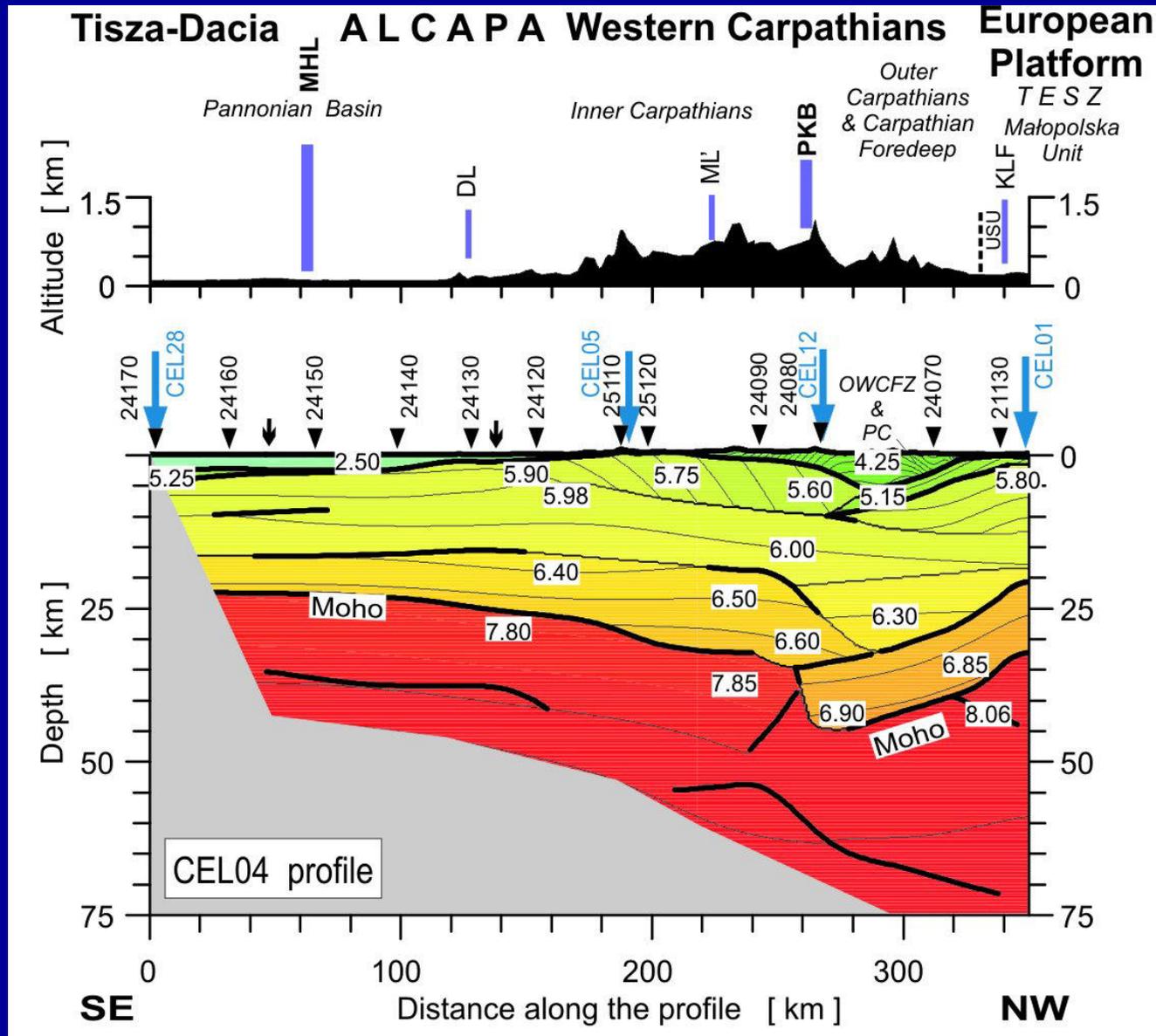
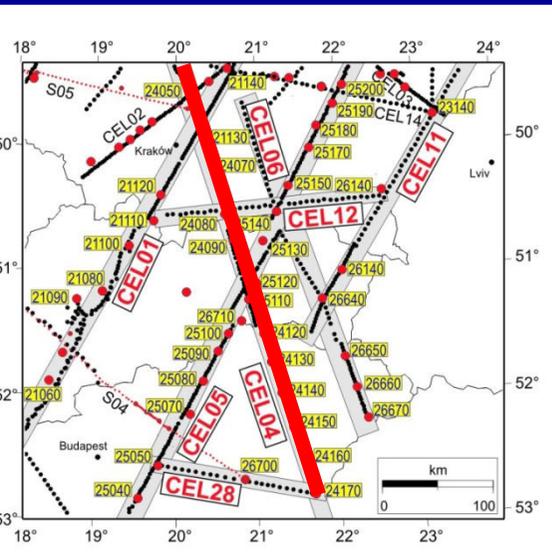


2D MODELS OF SEISMIC P-WAVE VELOCITY IN CRUST AND UPPERMOST MANTLE



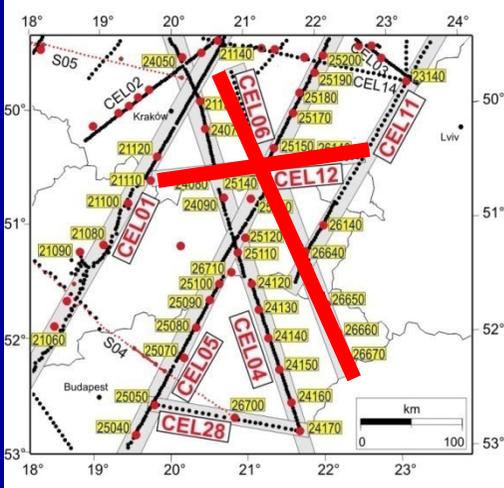
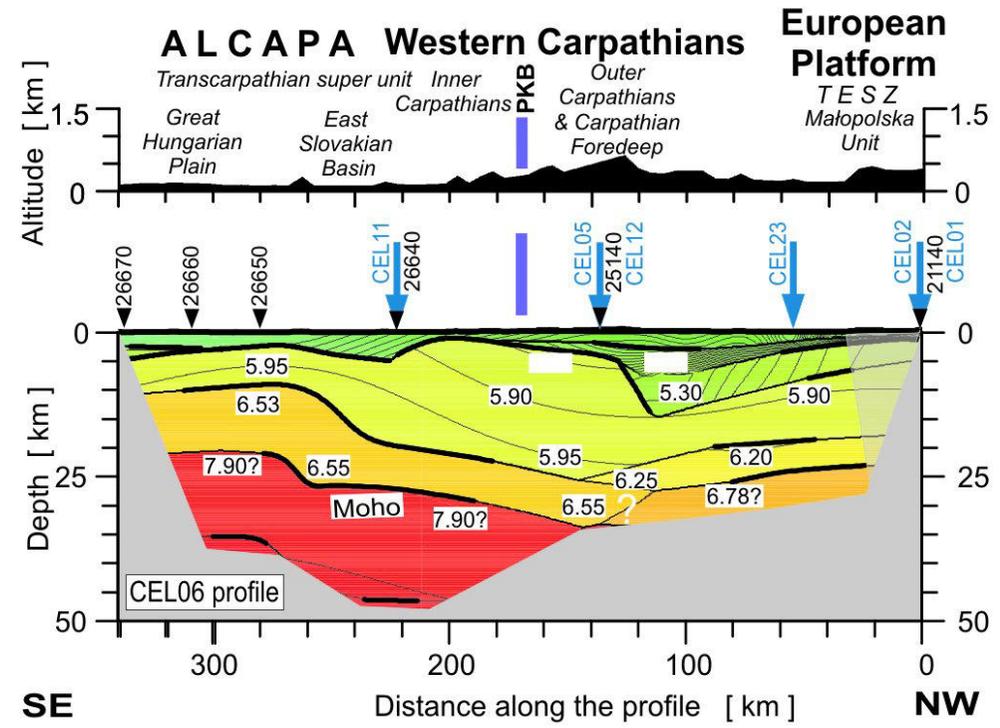
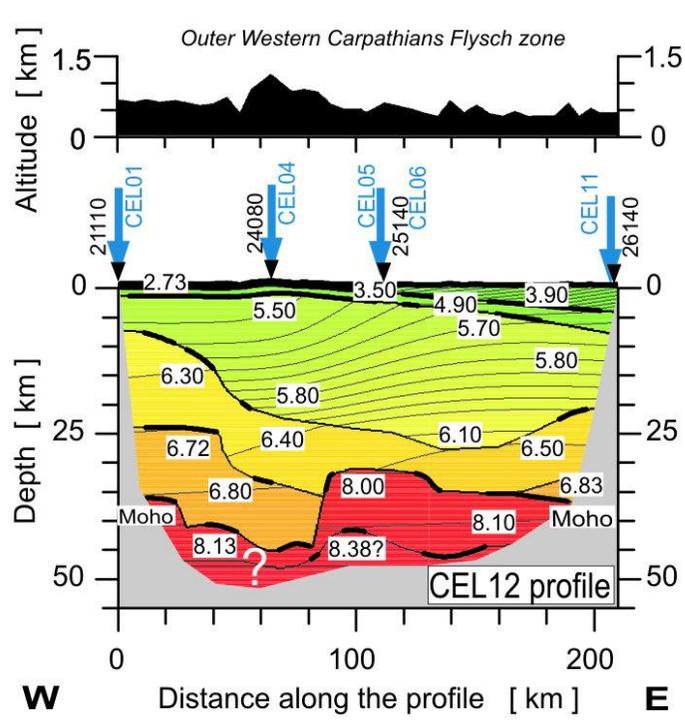


2D MODELS OF SEISMIC P-WAVE VELOCITY IN CRUST AND UPPERMOST MANTLE





2D MODELS OF SEISMIC P-WAVE VELOCITY IN CRUST AND UPPERMOST MANTLE

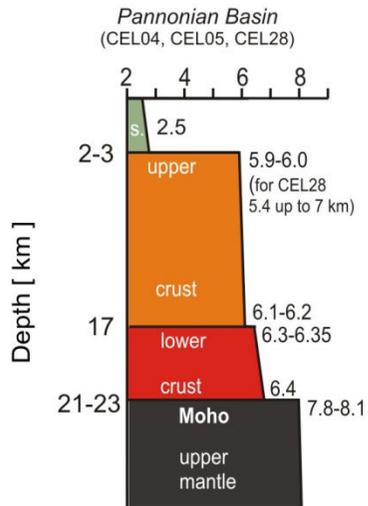




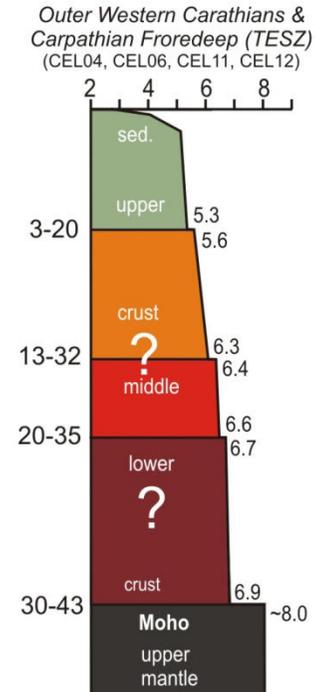
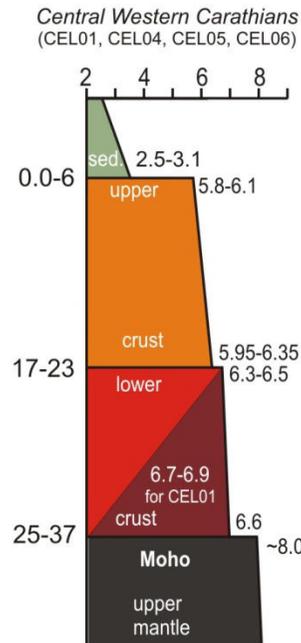
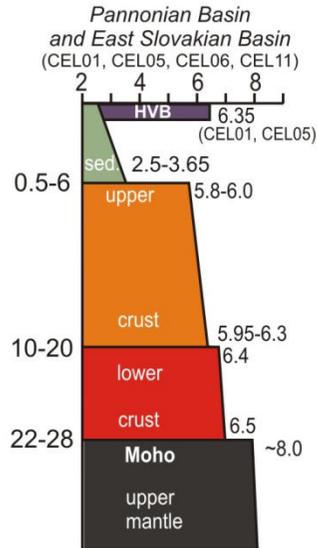
REPRESENTATIVE CRUSTAL MODELS FOR DIFFERENT TECTONIC UNITS



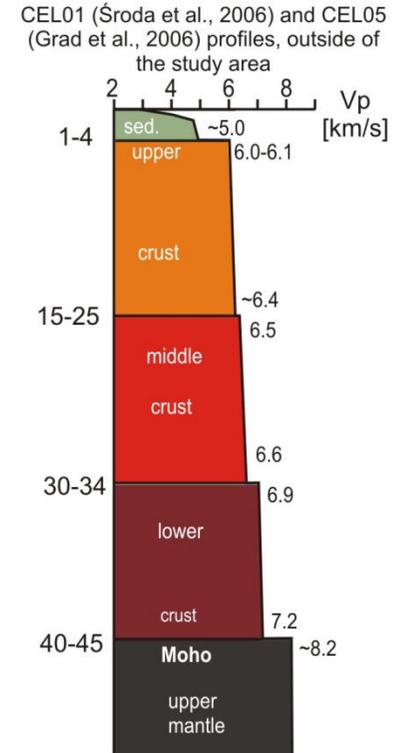
Tisza-Dacia



ALCAPA Western Carpathians & TESZ

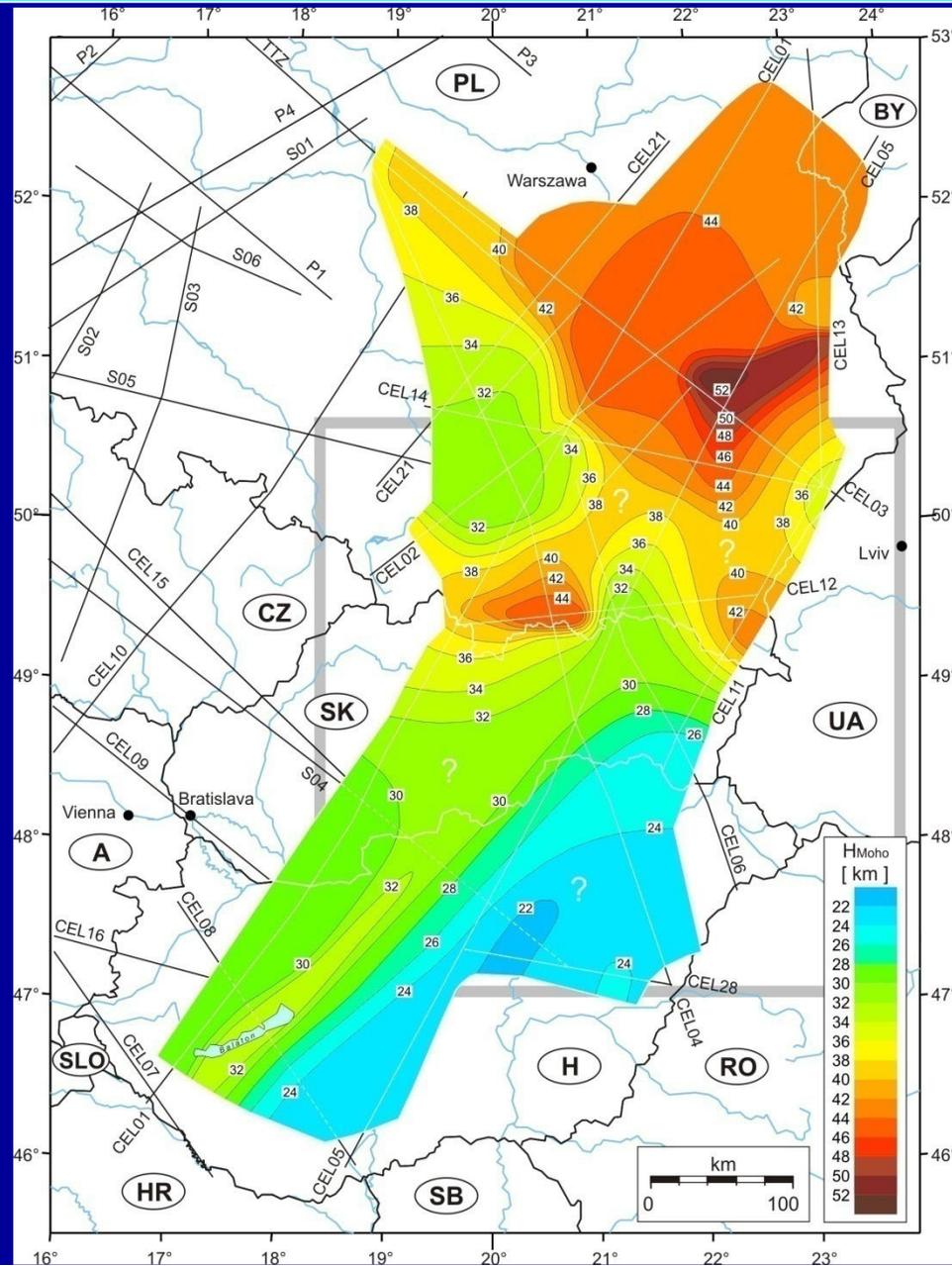


EAST EUROPEAN CRATON





MOHO DEPTH (CRUSTAL THICKNES)





Slovenská geofyzikálna konferencia
Bratislava, 22. - 23. júna 2011

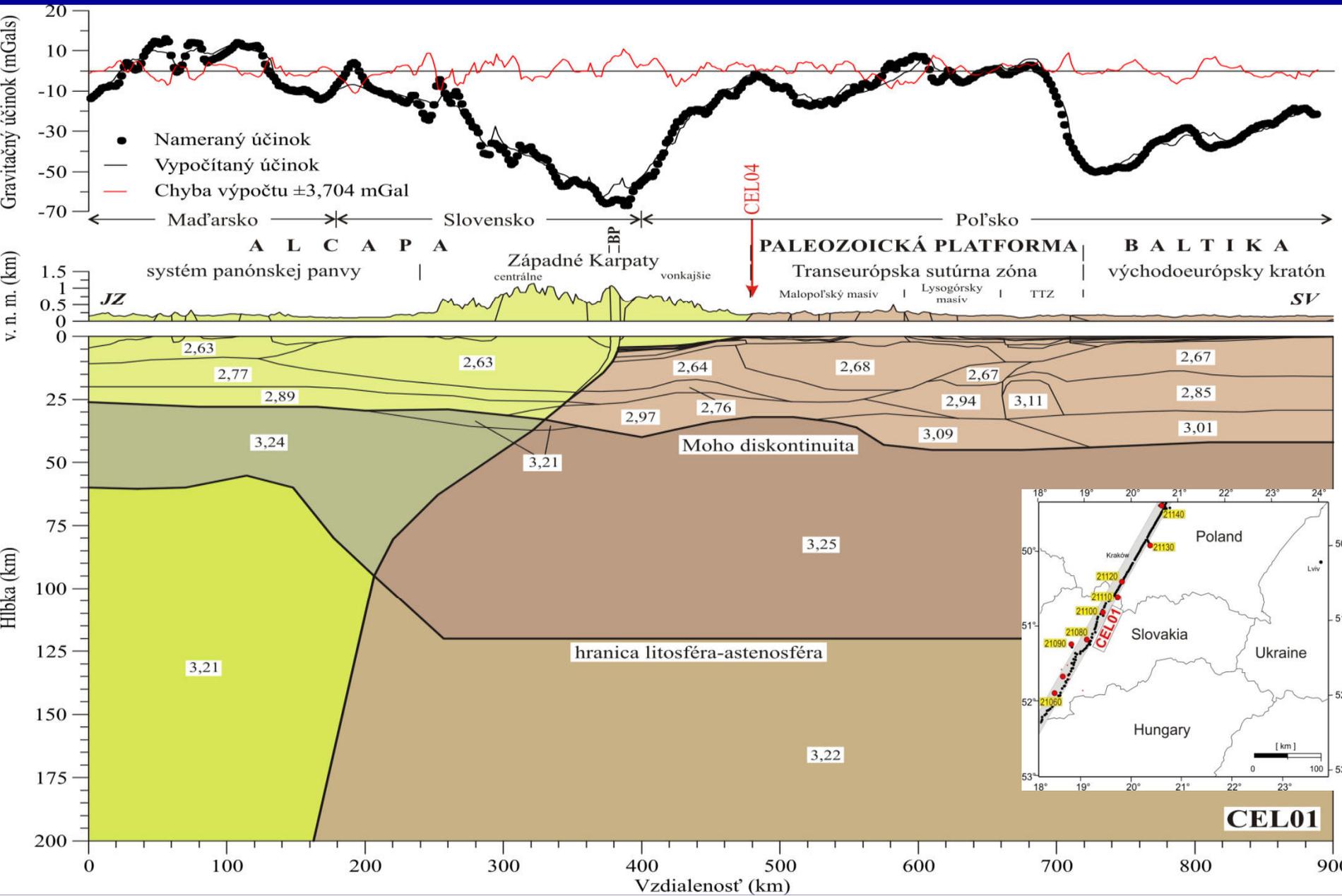


VÝSLEDKY INTERPRETÁCIE TIAŽOVÉHO POĽA V OBLASTI CELEBRATION 2000

K. Csicsay, dizertačná práca 2011

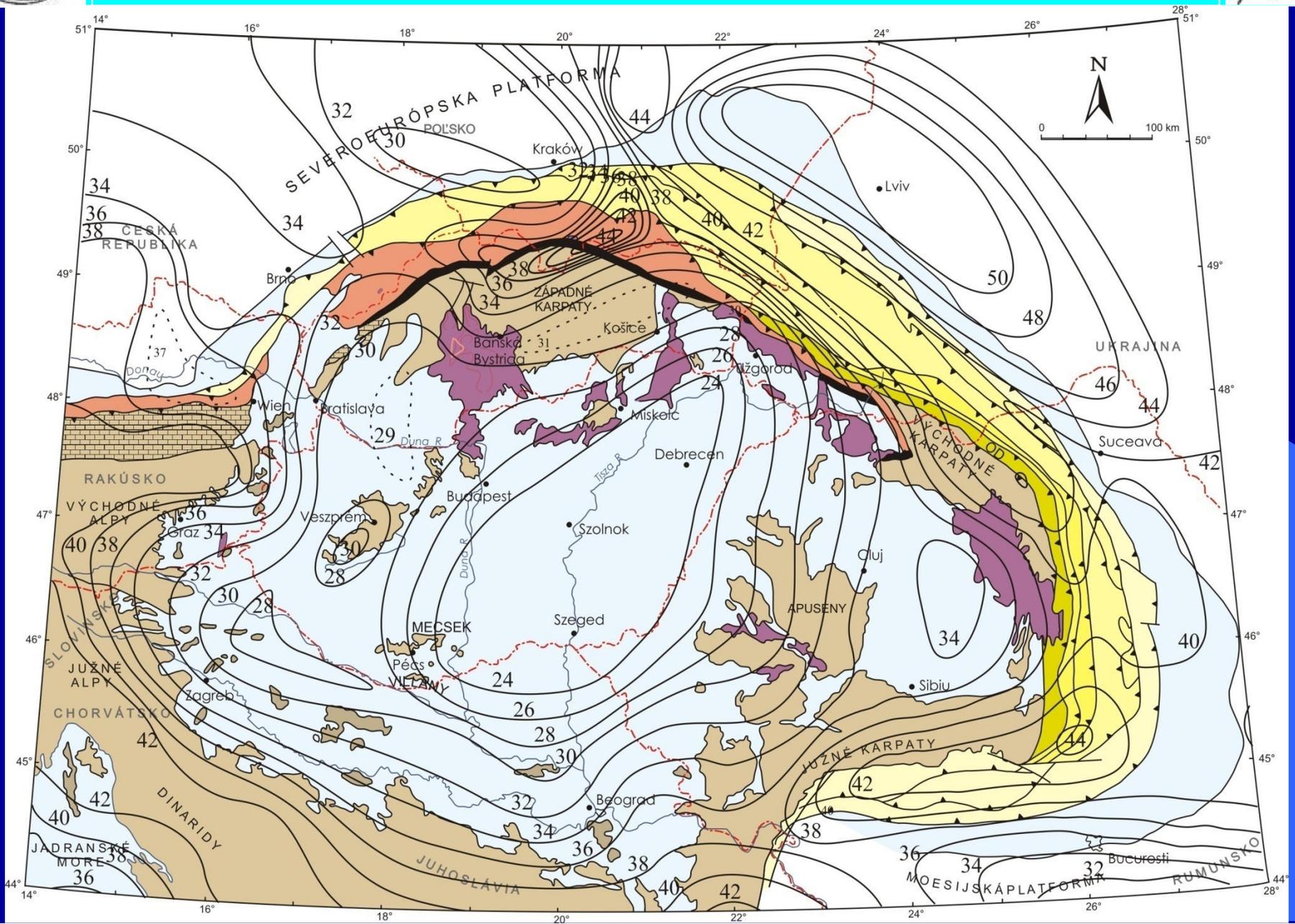


DENSITY MODEL ALONG PROFILE CEL01





MOHO DEPTH (CRUSTAL THICKNESS)





Slovenská geofyzikálna konferencia

Bratislava, 22. - 23. júna 2011

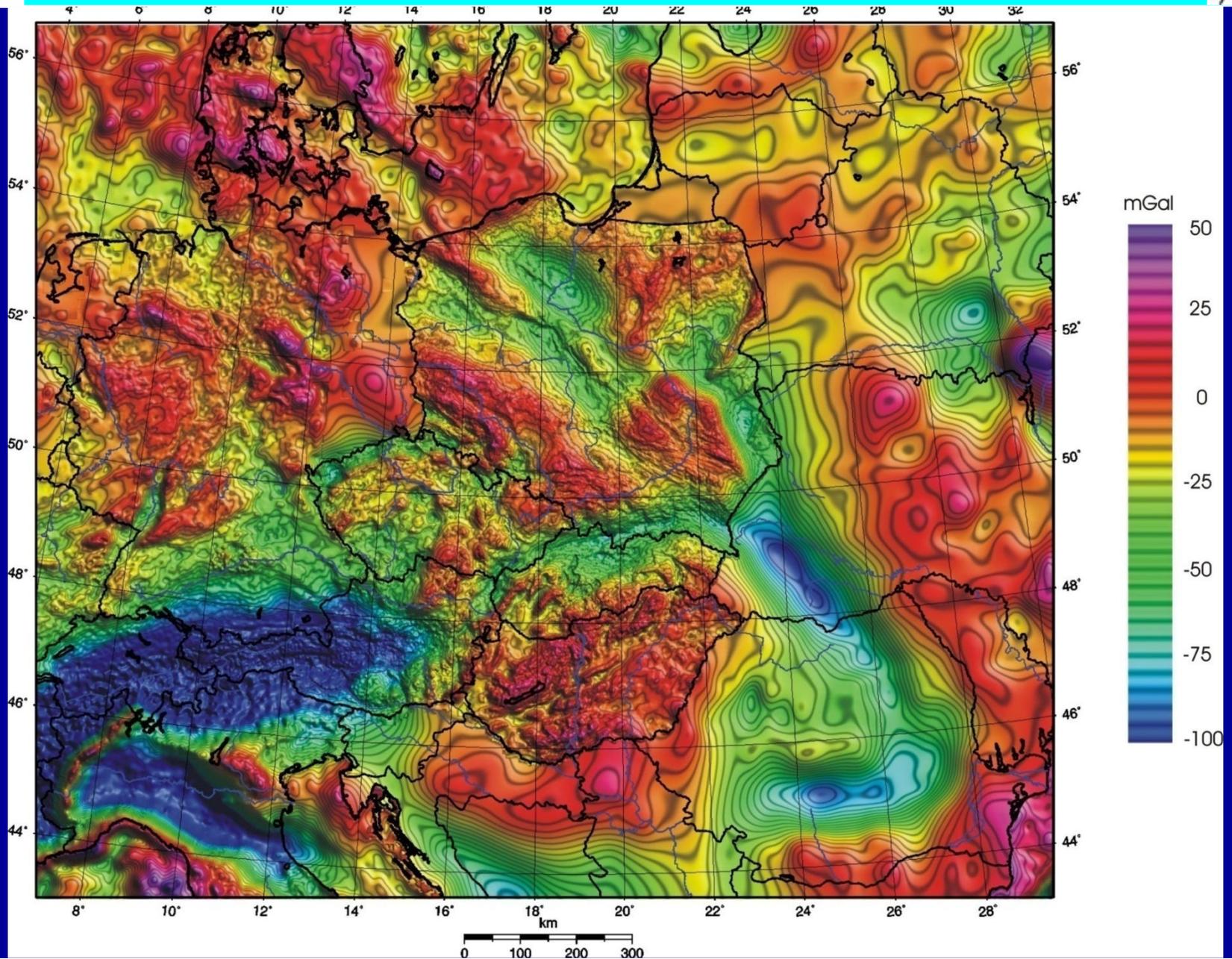


VÝSLEDKY INTERPRETÁCIE TIAŽOVÉHO POĽA V OBLASTI CELEBRATION 2000

Geologica Carpathica 2008 a Tectonophysics 2009

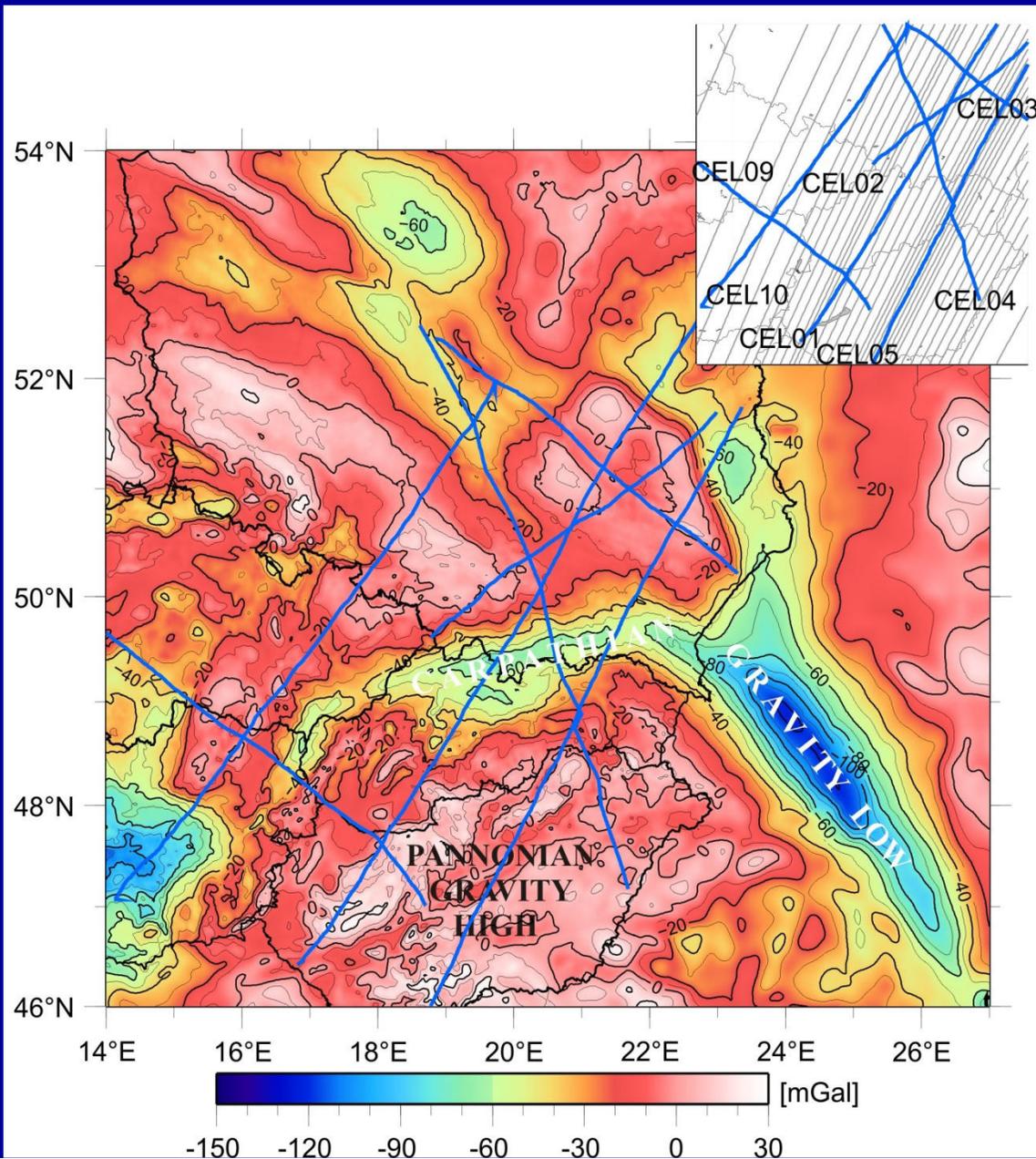


TOTAL BOUGUER GRAVITY MAP (GRAVITY FIELD)



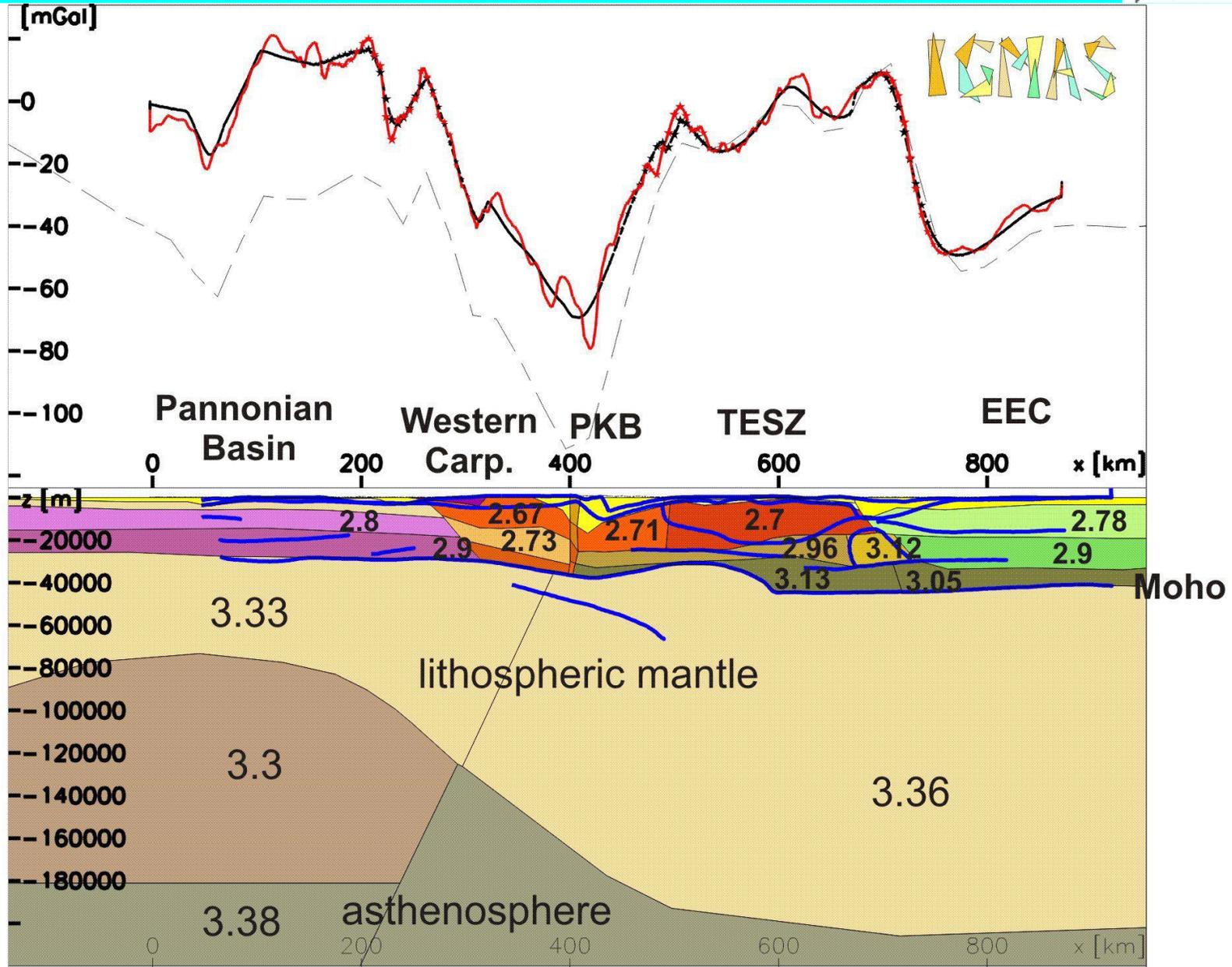


INTERPRETATION PROFILES



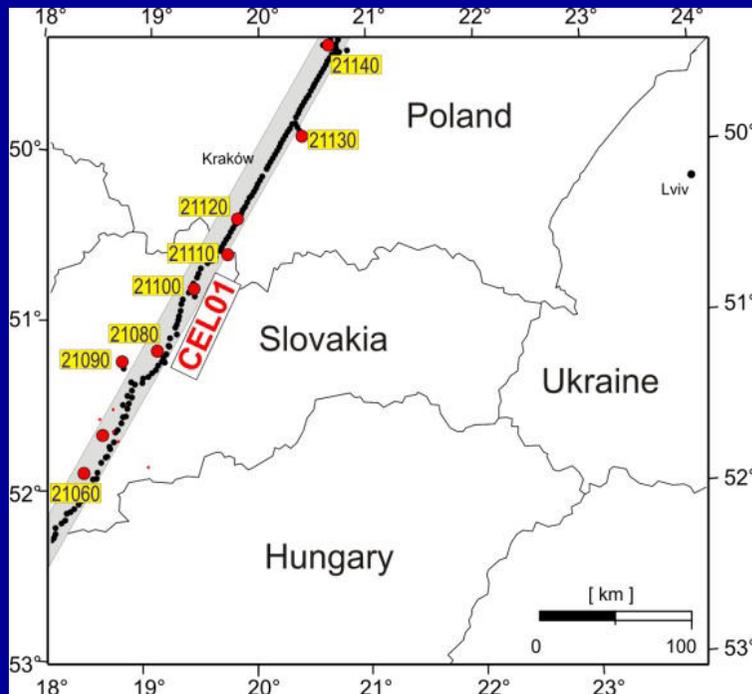


DENSITY MODEL OF PROFILE CELEBRATION 2000 CEL01

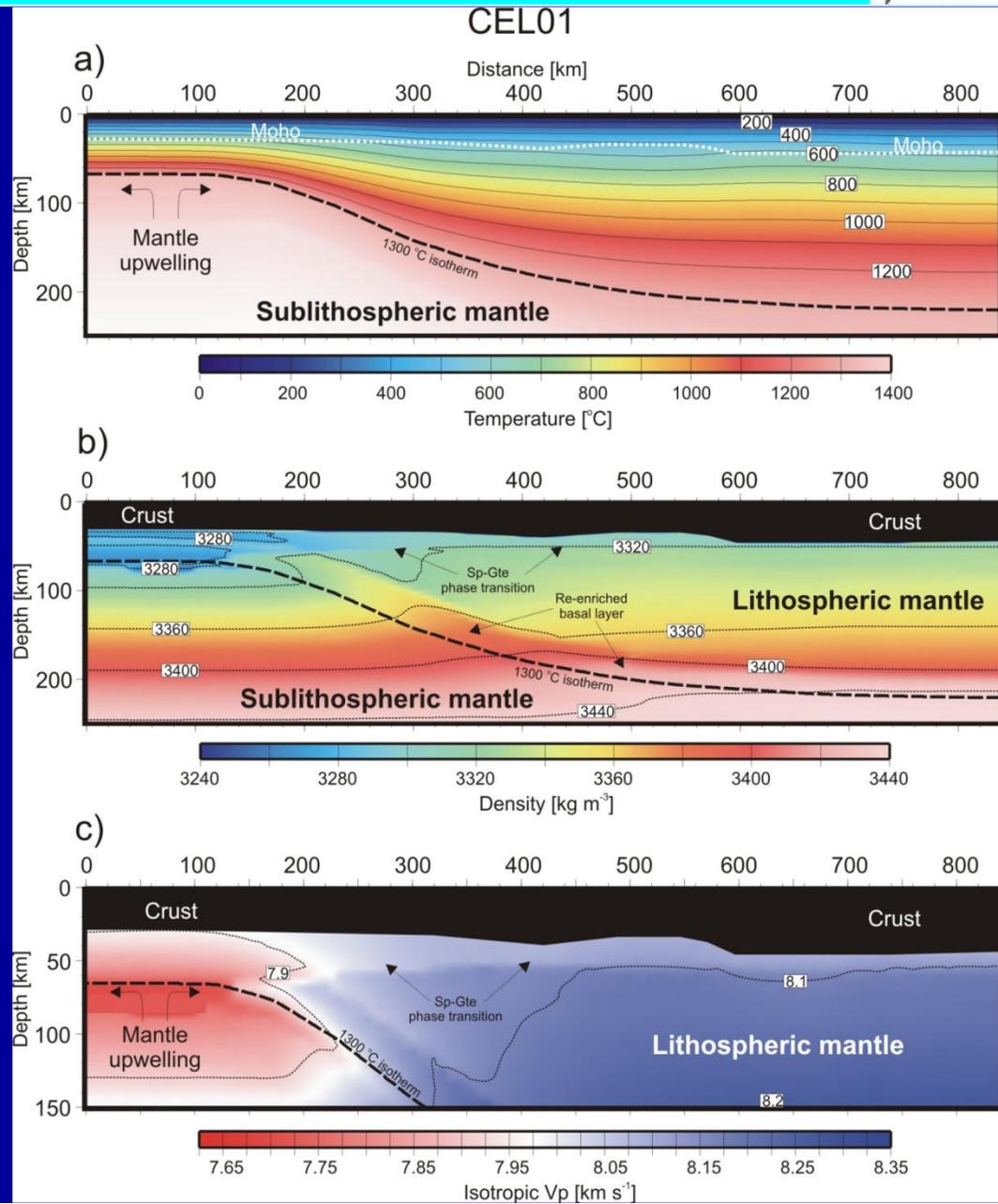




DETERMINATION OF THE SUBLITHOSPHEREIC DENSITIES

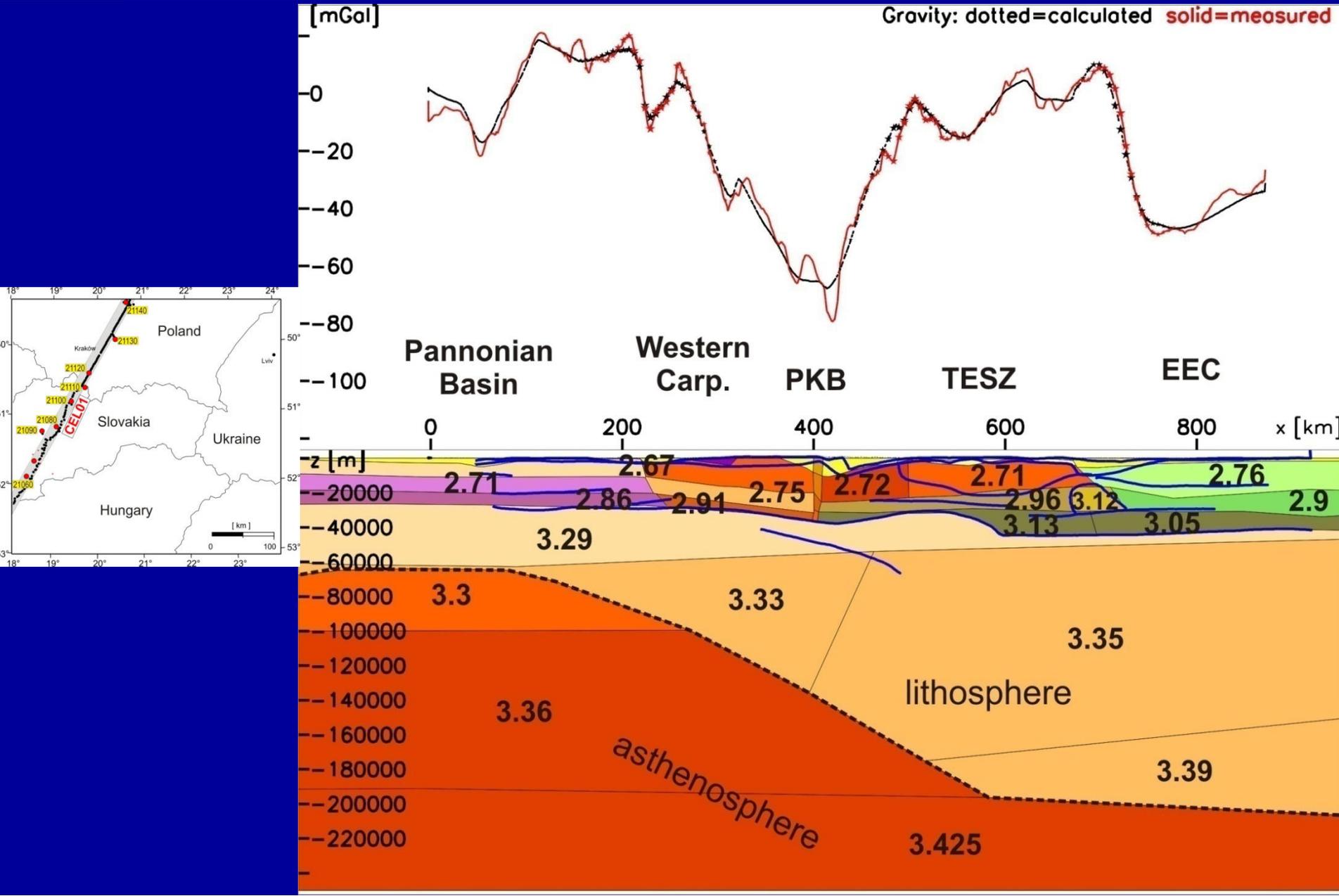


Program LitMod



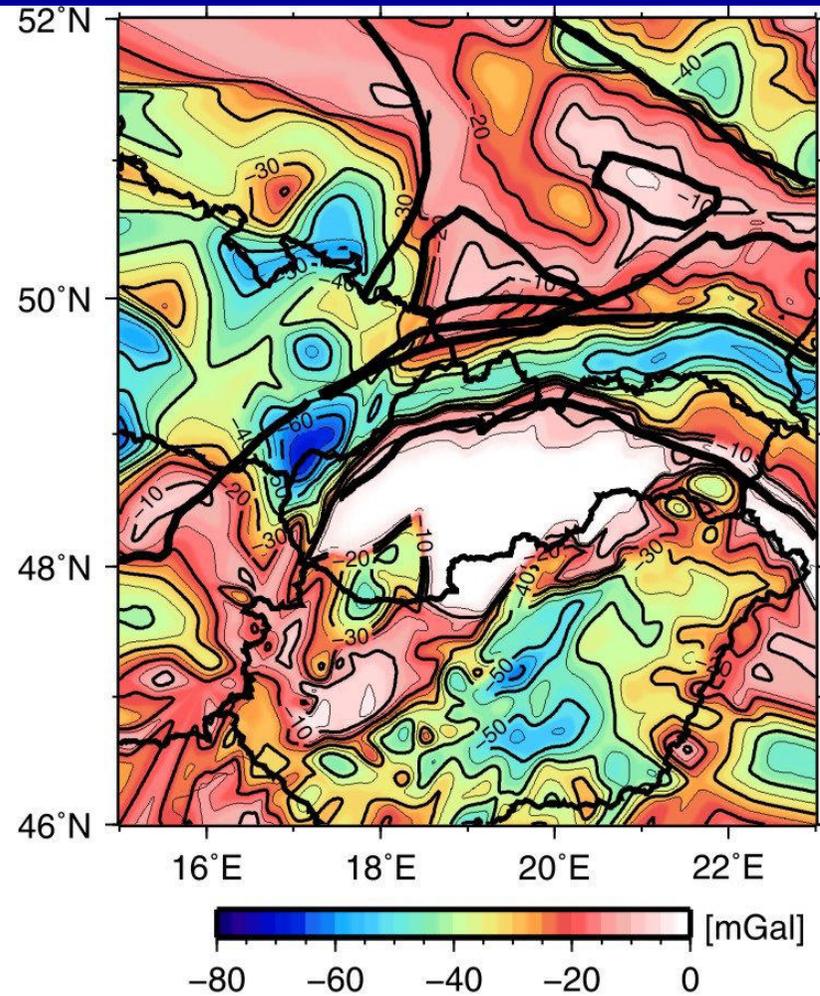
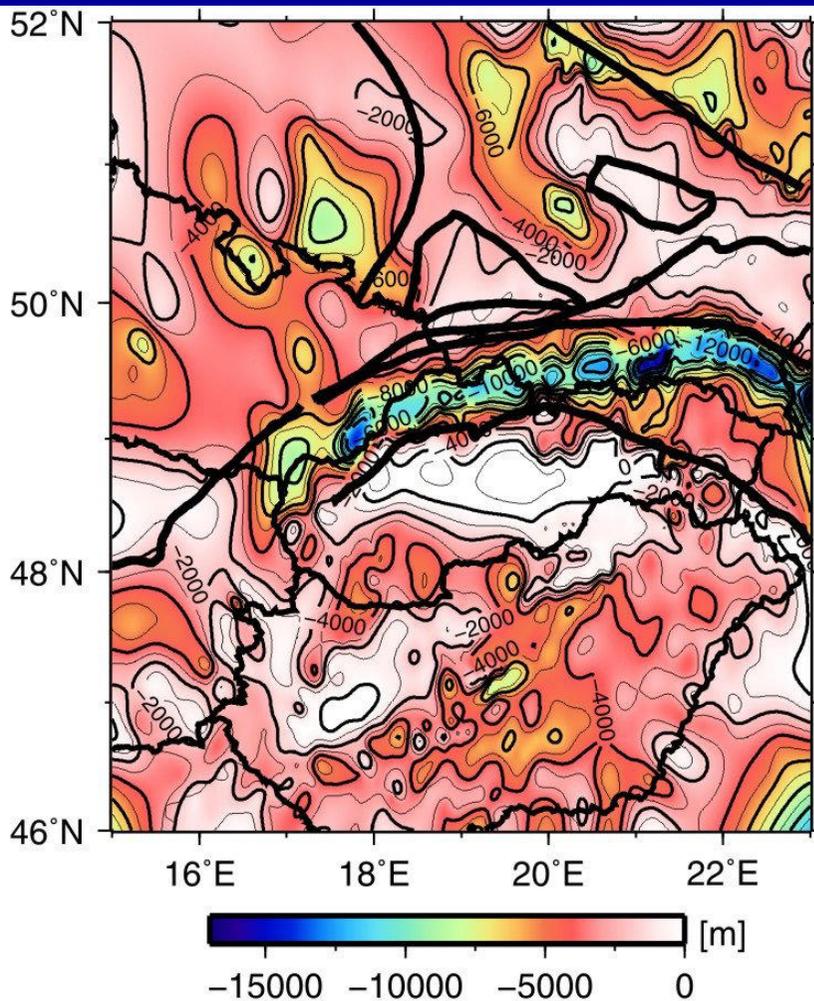


DENSITY MODEL OF PROFILE CELEBRATION 2000 CEL01



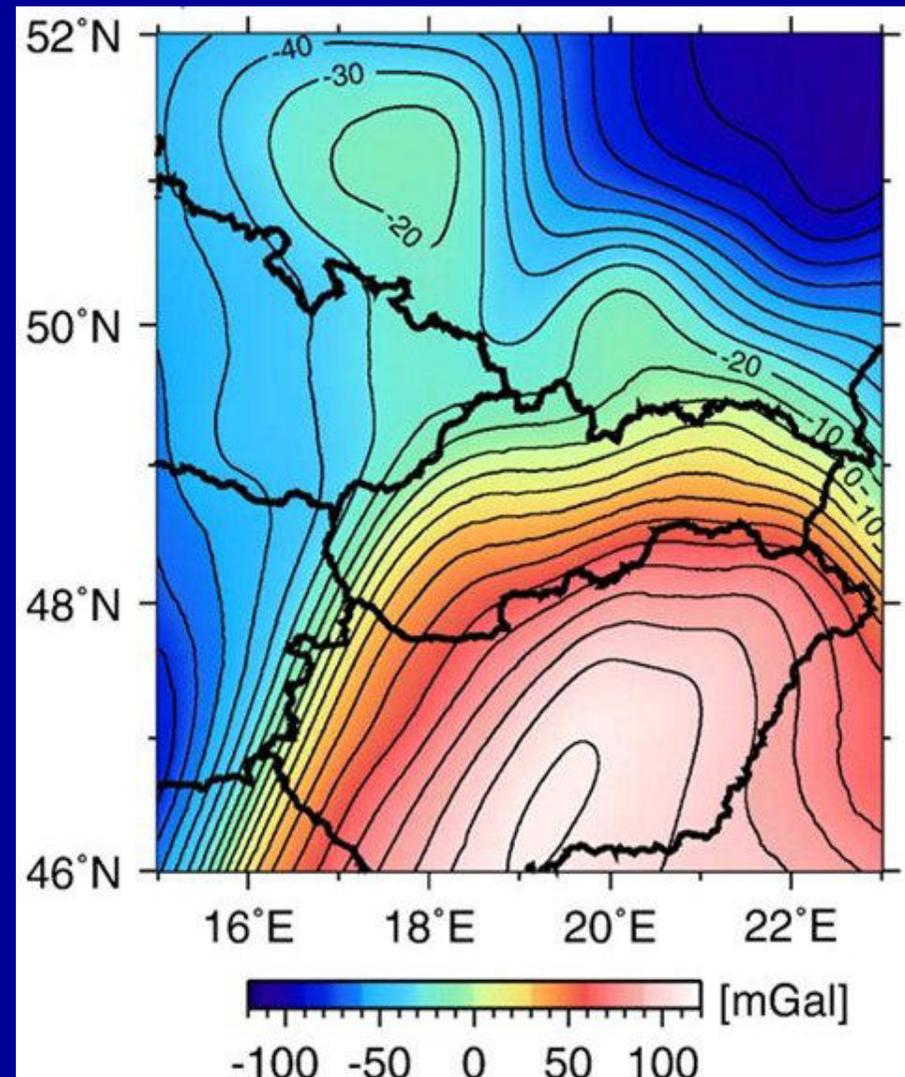
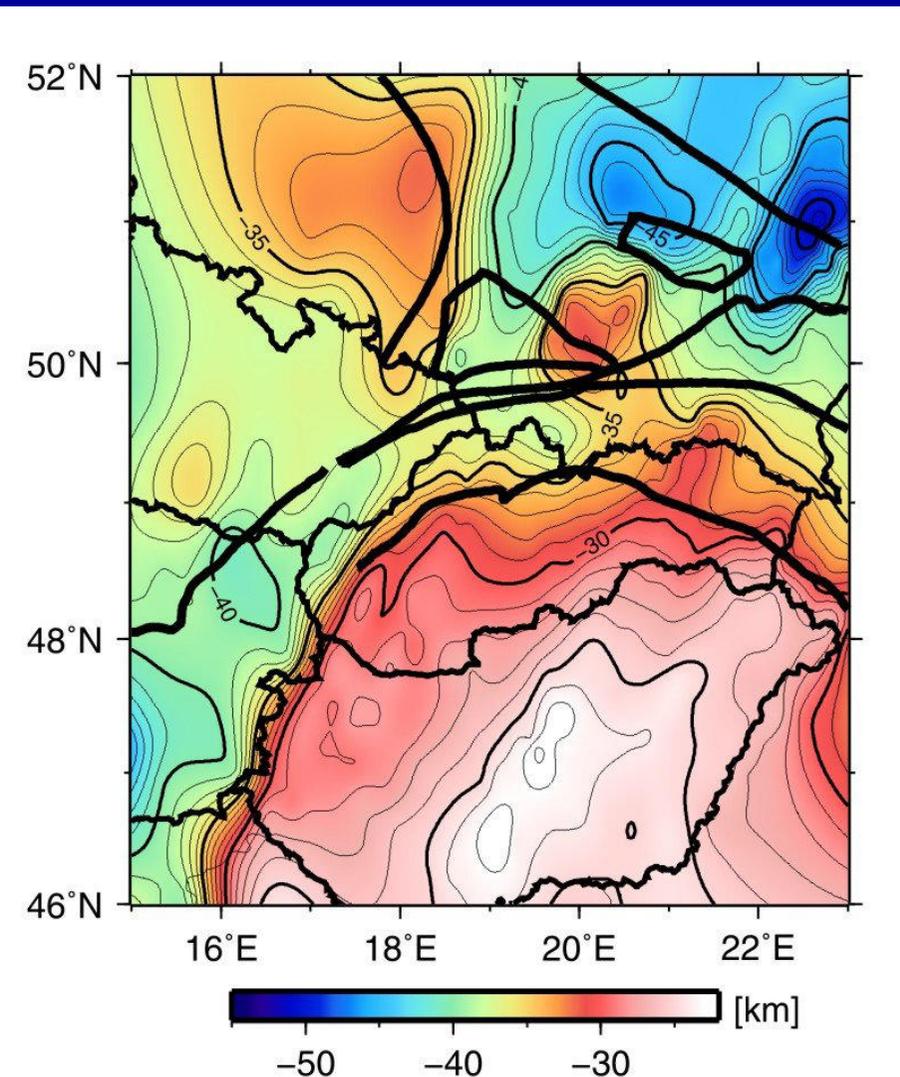


THICKNES OF SEDIMENTS AND ITS GRAVITY EFFECT



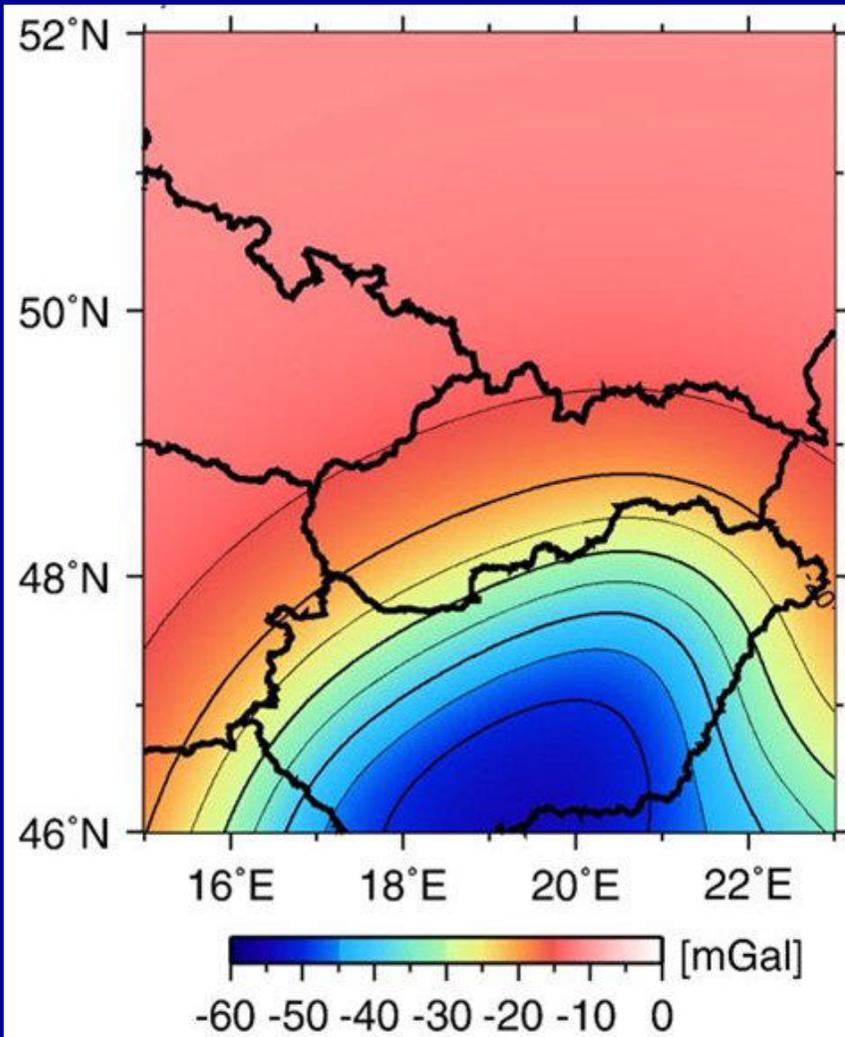
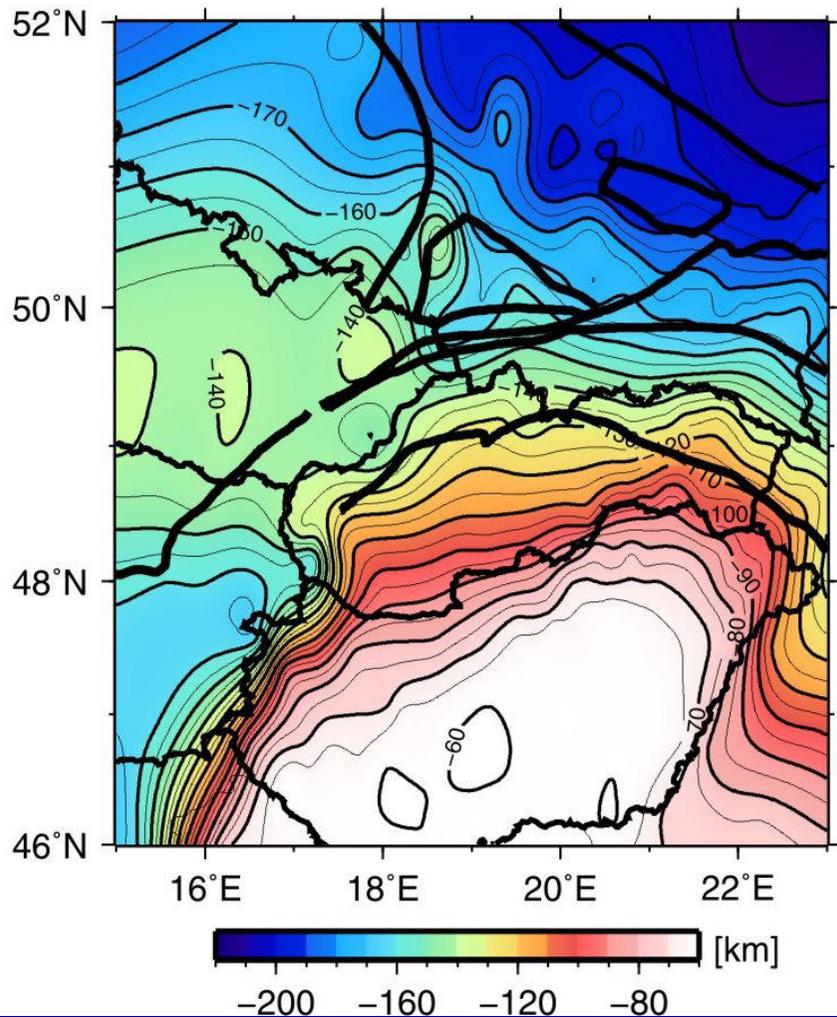


THICKNES OF CRUST (MOHO DEPTH) AND ITS GRAVITY EFFECT



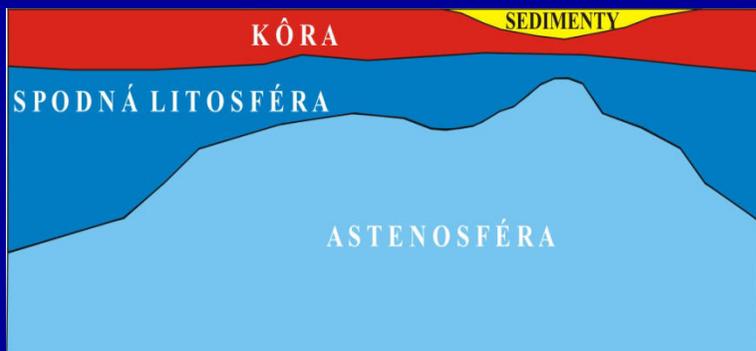


THICKNES OF LITHOSPHERE AND ITS GRAVITY EFFECT

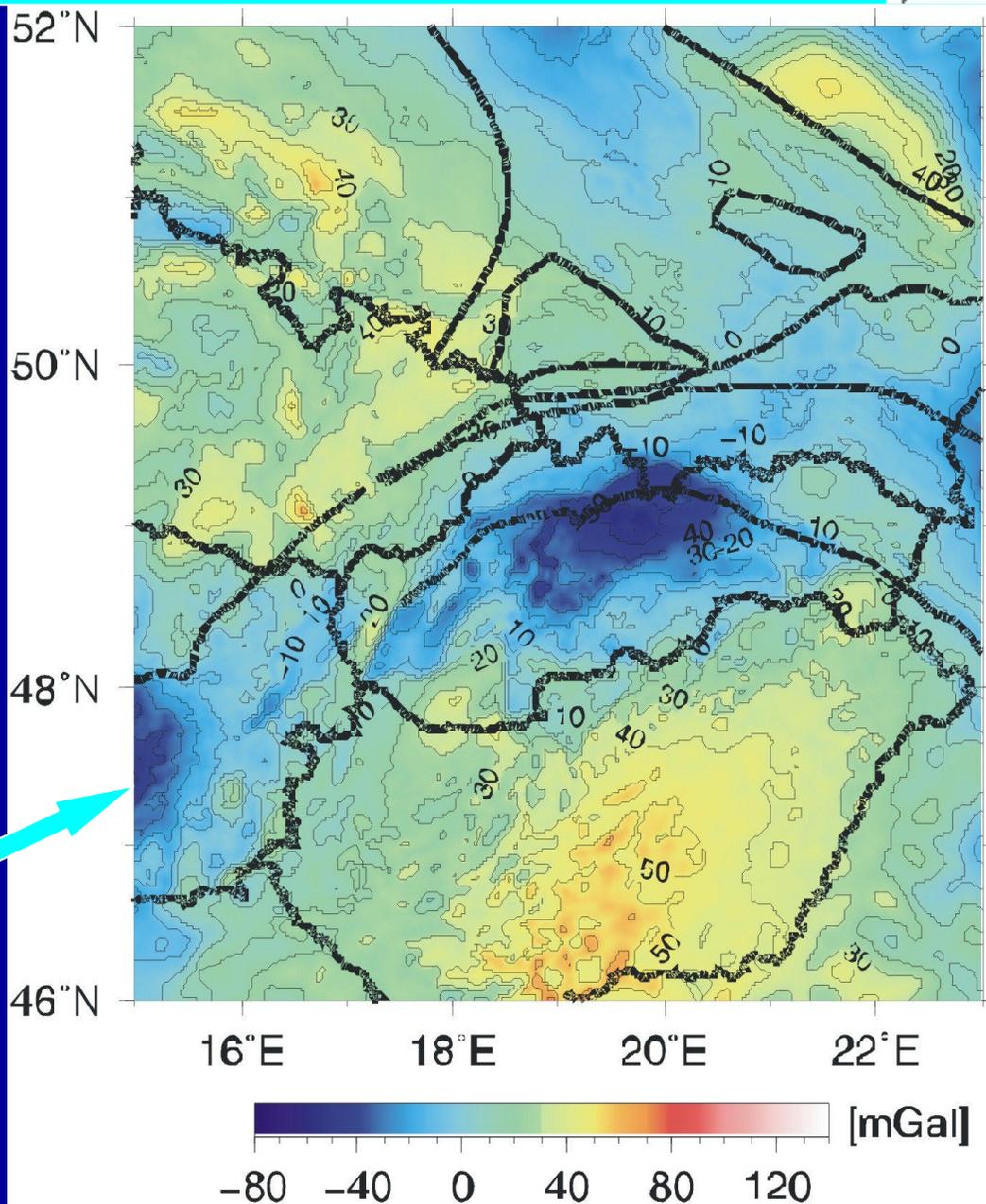
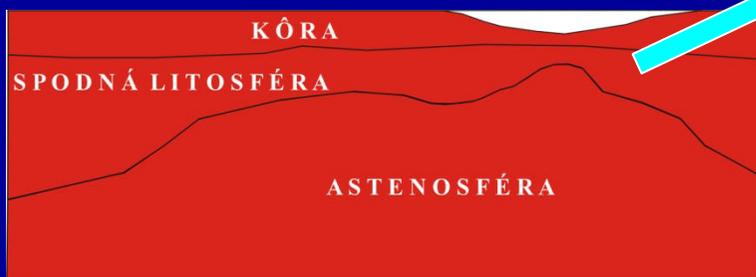




SEDIMENTARY STRIPPED GRAVITY

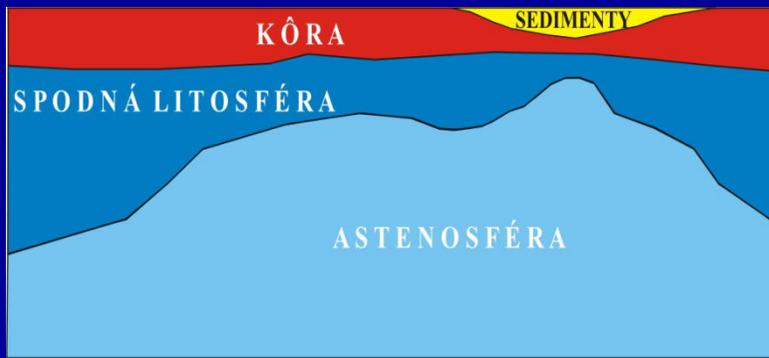


Odkrytá tiažová mapa
(odkrytá o 3D gravitačný účinok sedimentov)



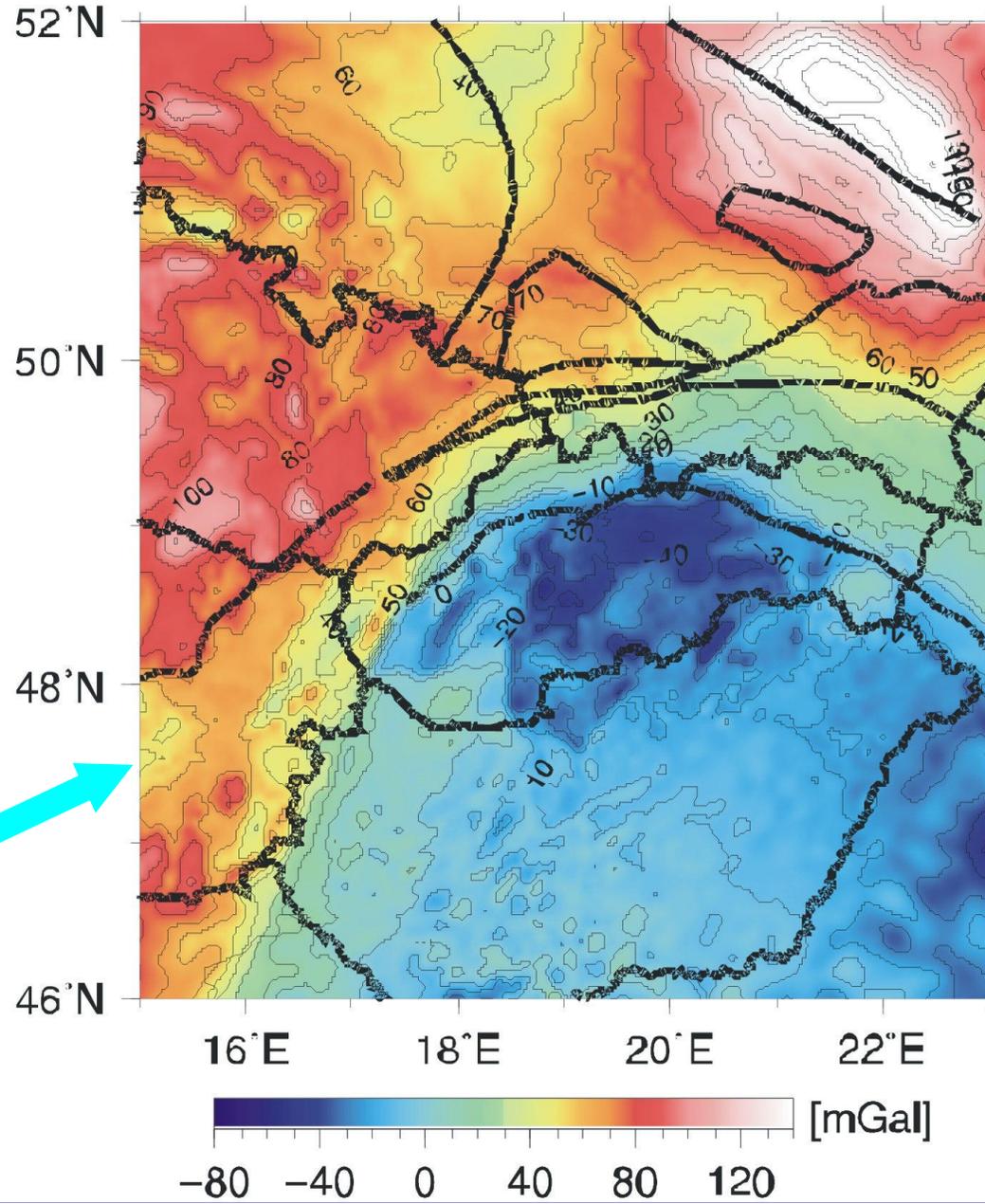
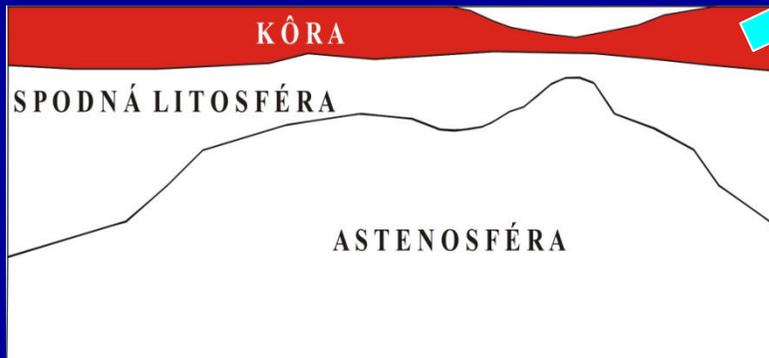


GRAVITY EFFECT OF CRUST



Odkrytá tiažová mapa

(odkrytá o 3D gravitačný účinok sedimentov, spodnej litosféry a astenosféry)





VÝSLEDKY INTEGROVANEJ GEOFYZIKÁLNEJ INTERPRETÁCIE



Slovenská geofyzikálna konferencia

Bratislava, 22. - 23. júna 2011

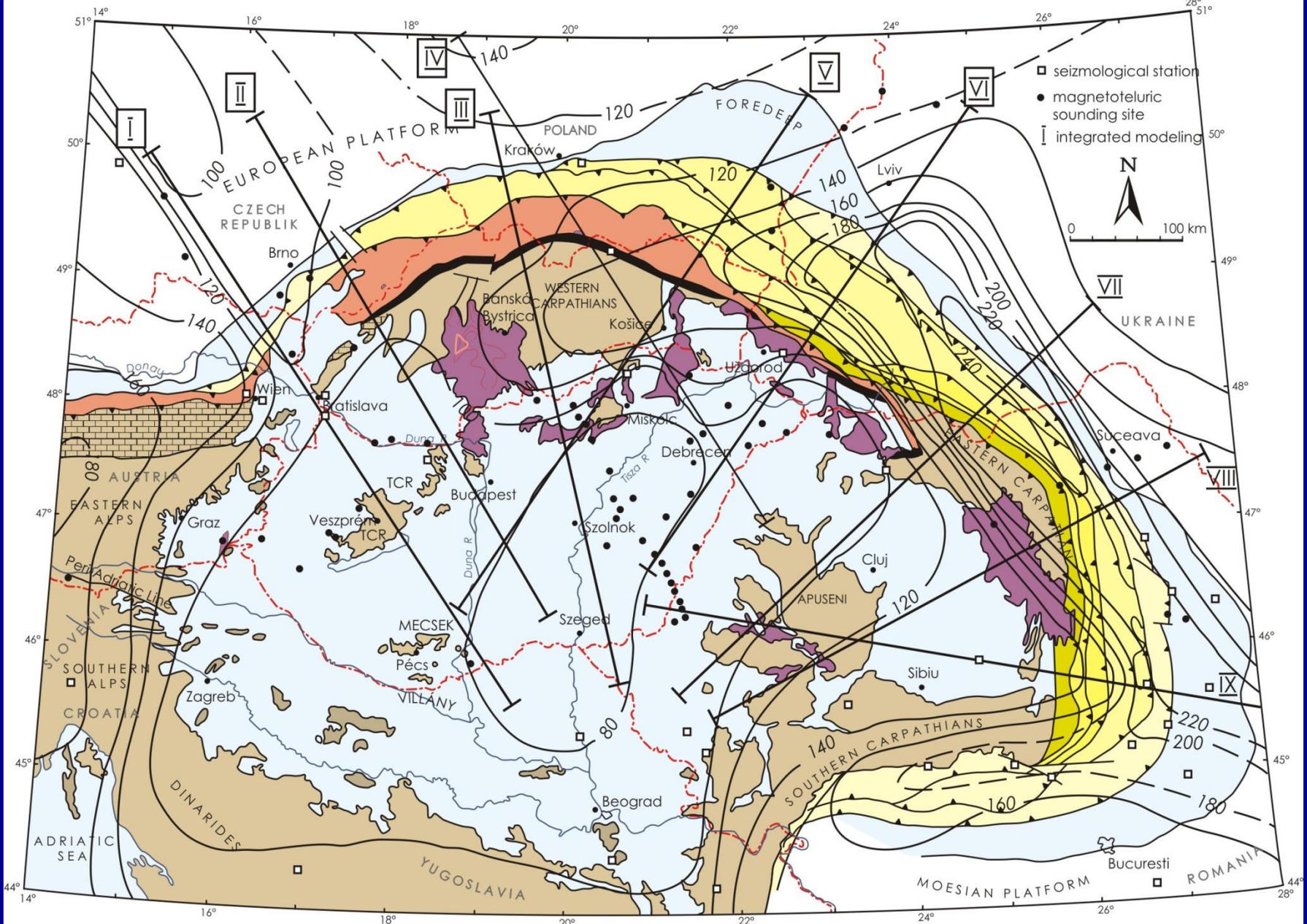


VÝSLEDKY INTERPRETÁCIE TIAŽOVÉHO POĽA V OBLASTI CELEBRATION 2000

**M. Grinč, International convention for the joint supervision of thesis
(Cotutelle) medzi University of Paris-Sud XI a Komenského
Univerzitou**

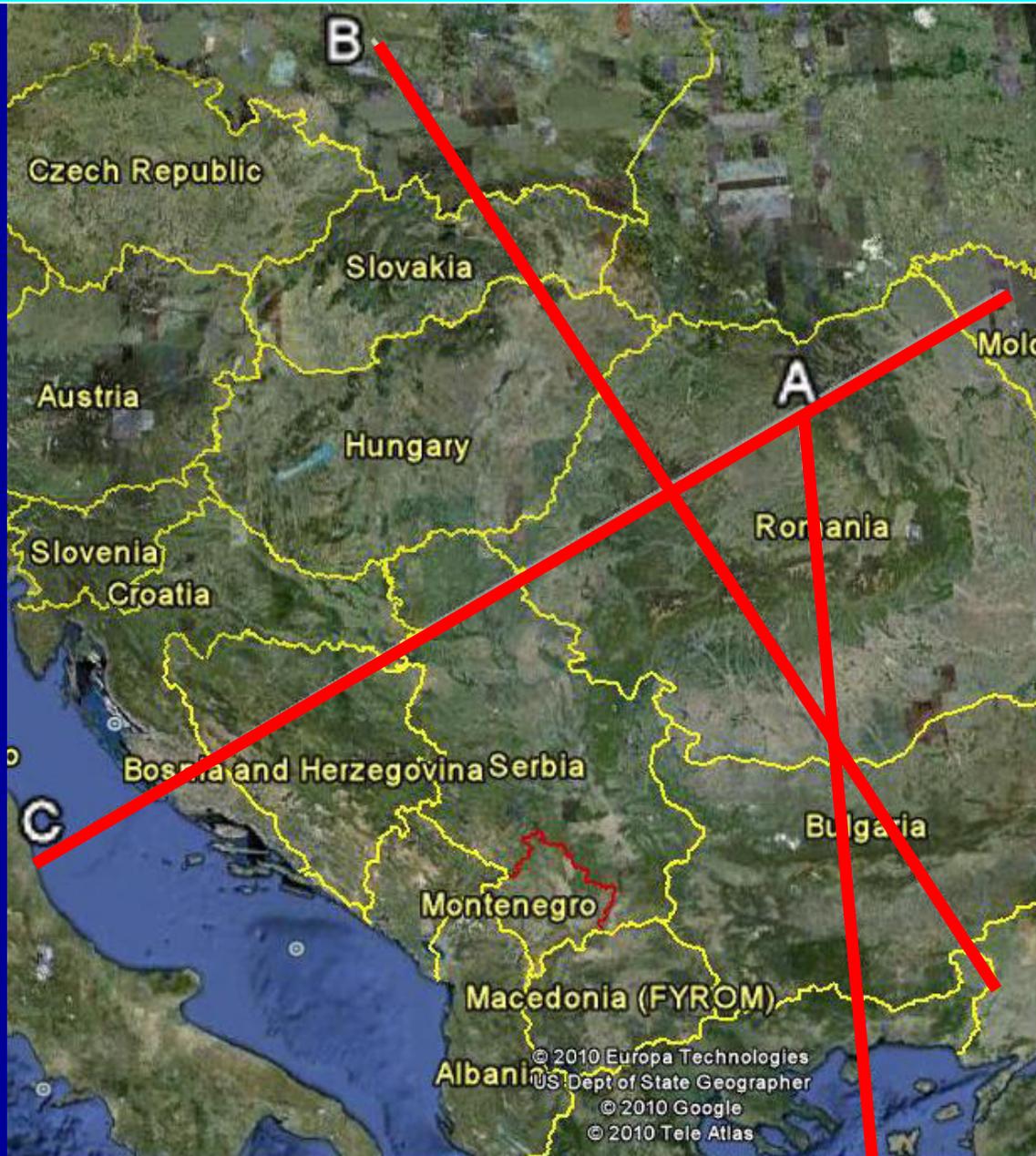


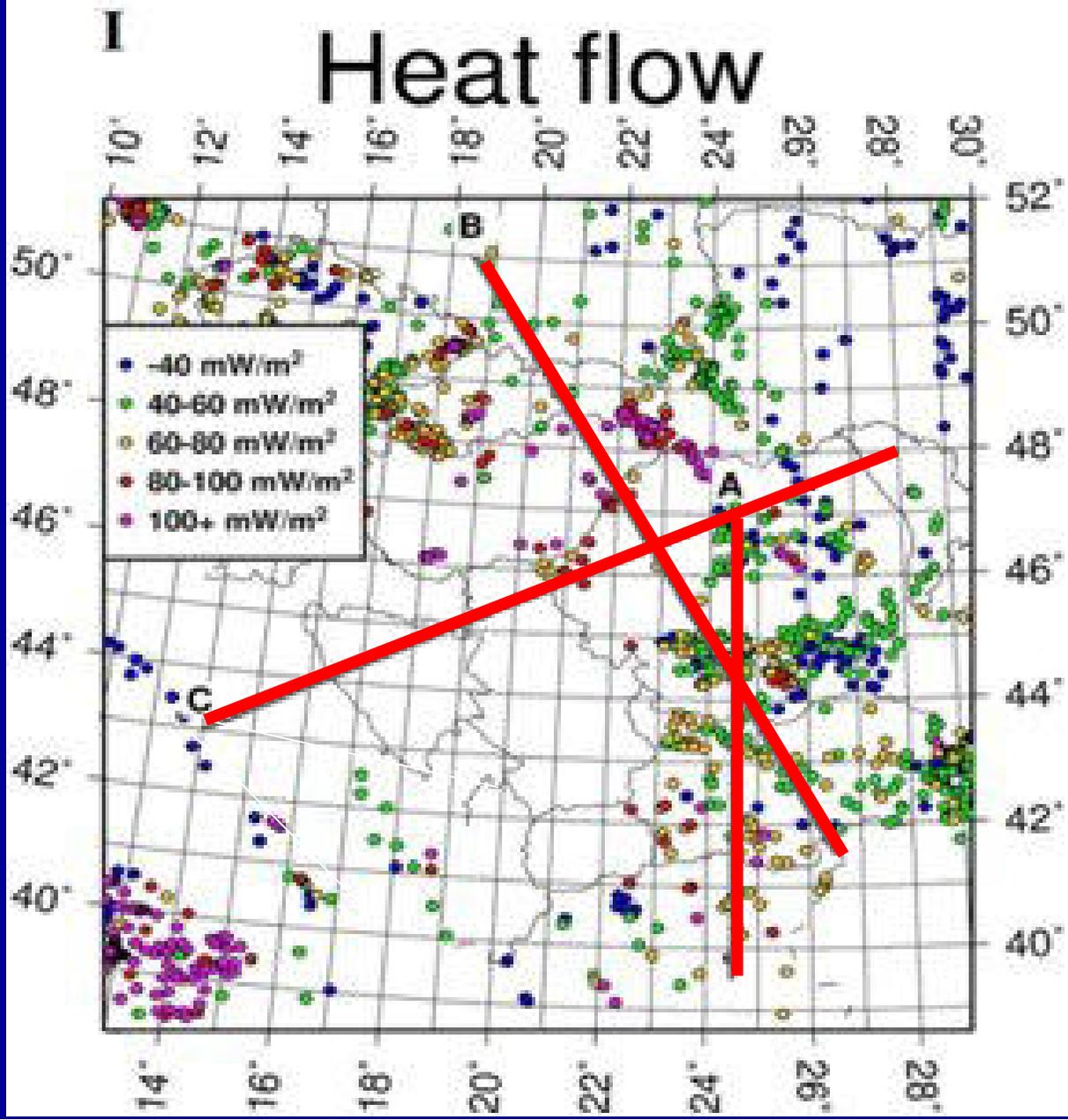
LITHOSPHERIC THICKNESS





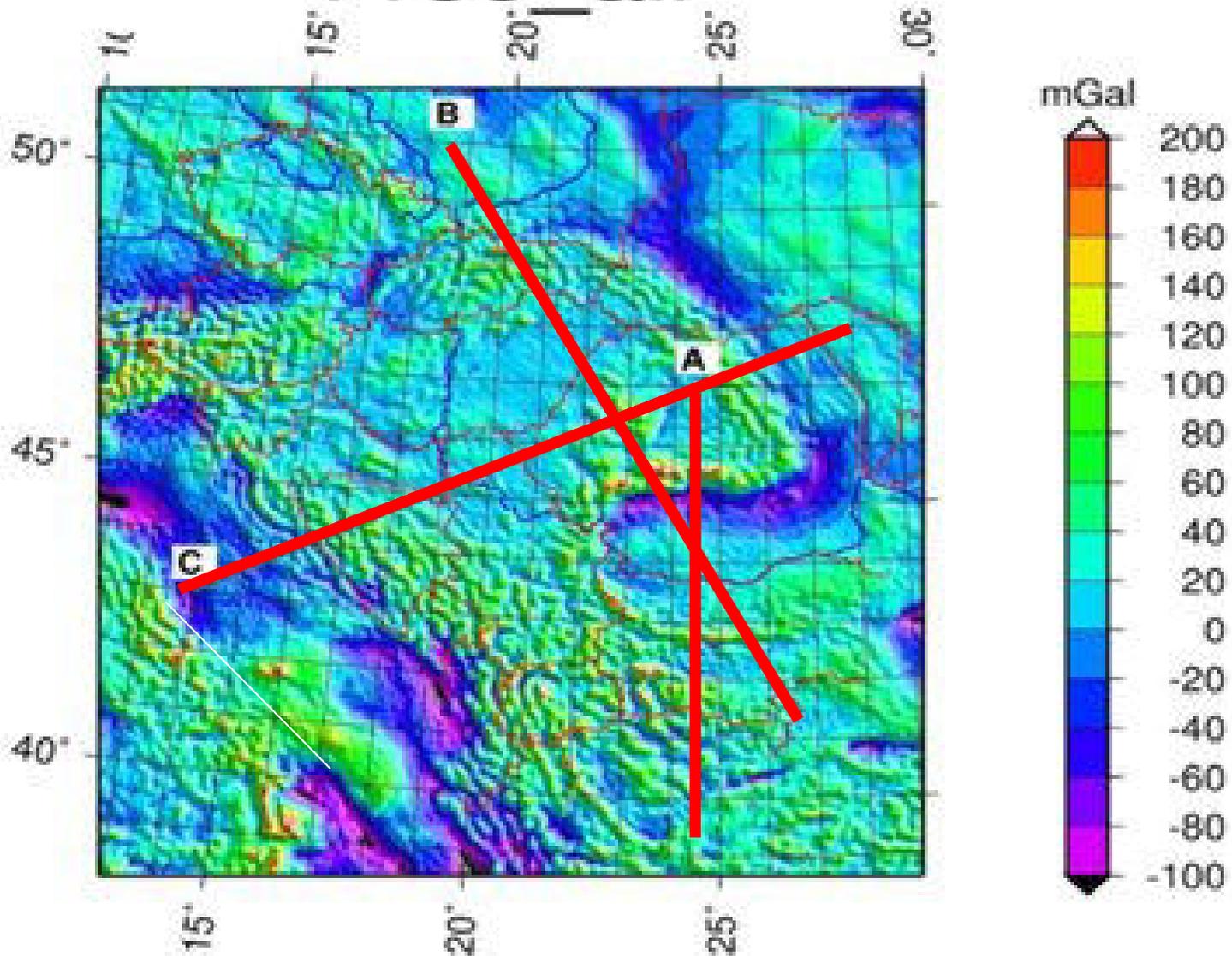
LOCATION OF OTHER INTERPRETATION PROFILES



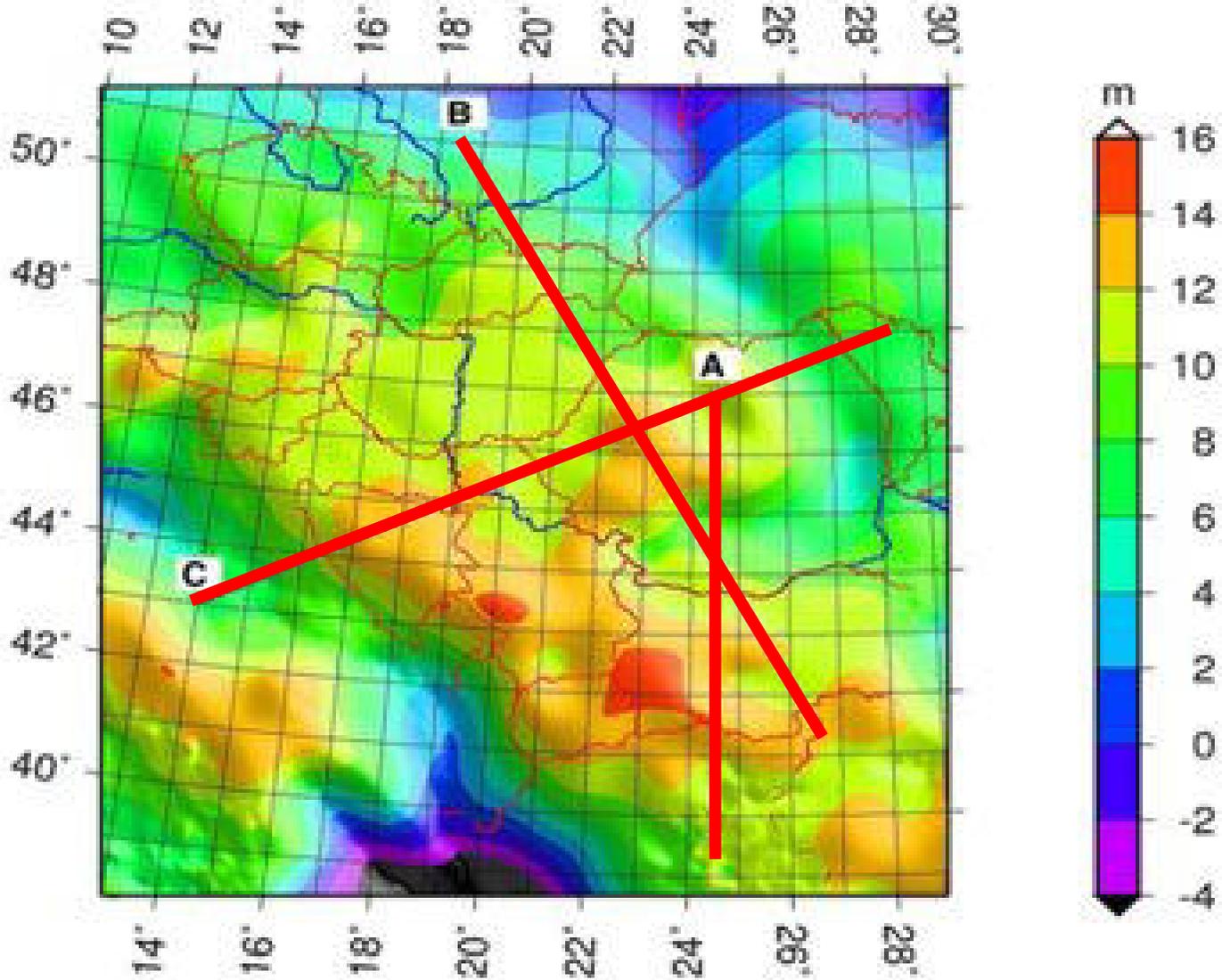


II

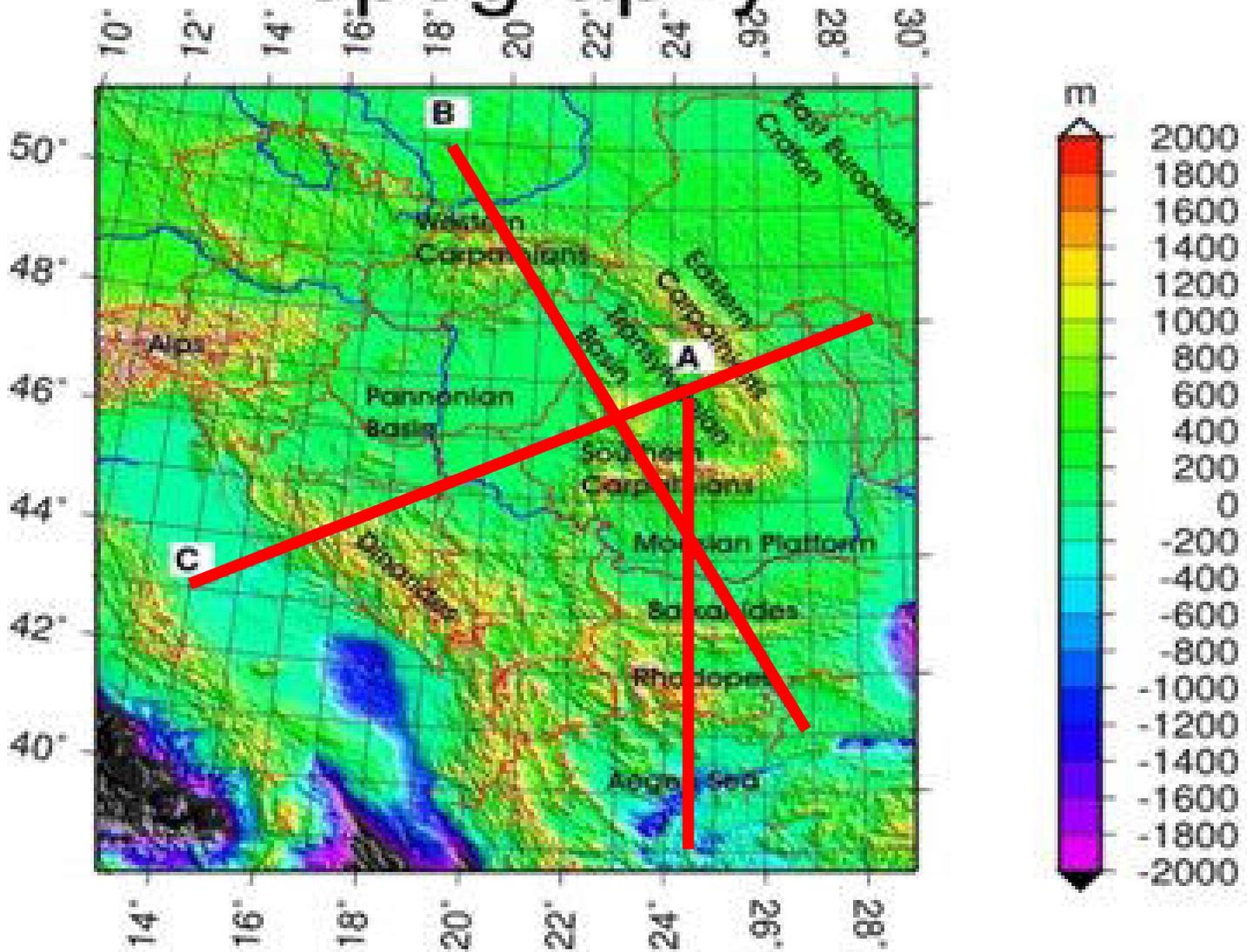
Free air



III Geoid



IV Topography

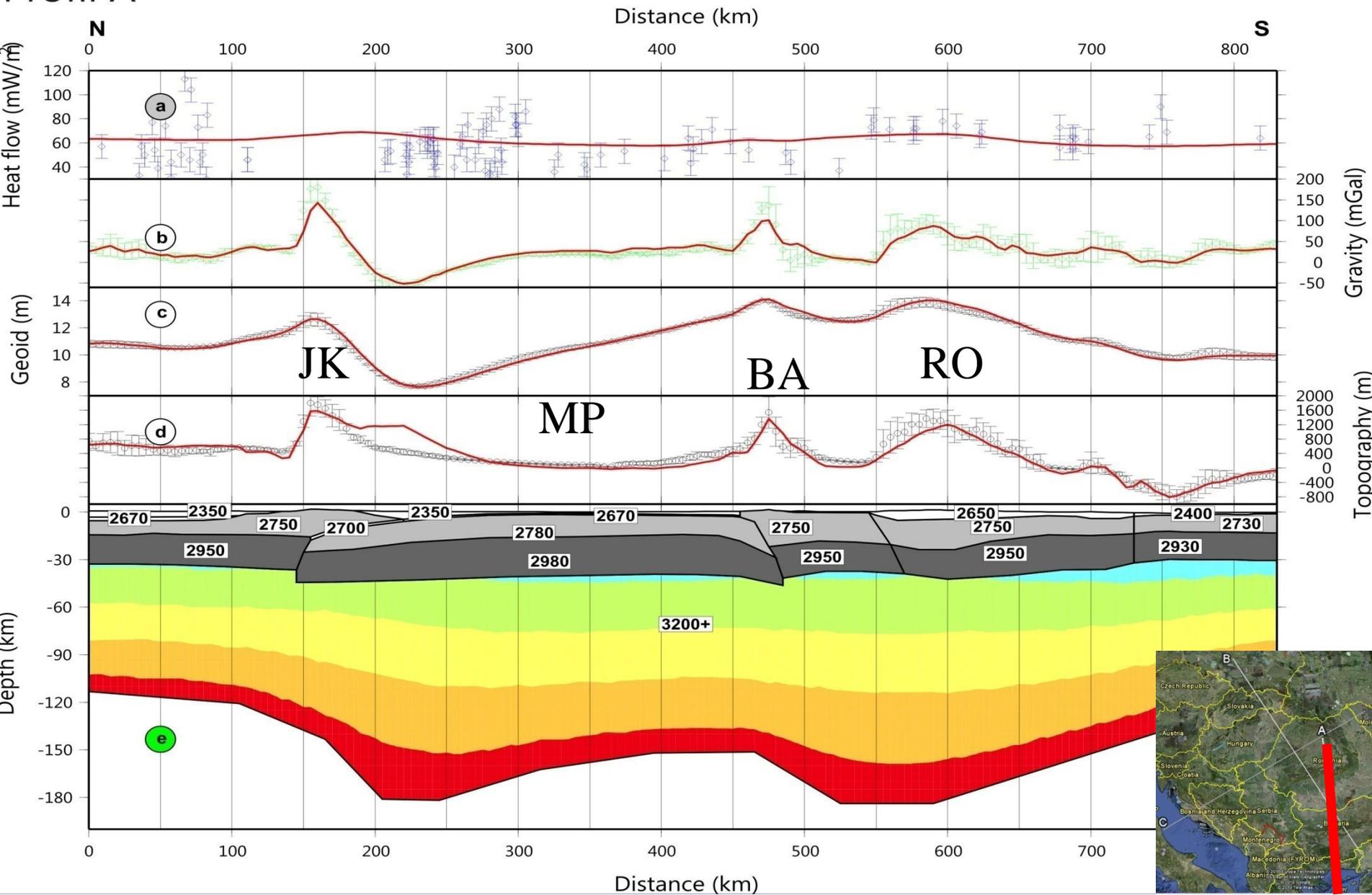




PROFILE A

Profil A

Profile Romania-Aegean N-S (24.5/47 - 24.5/39.5)

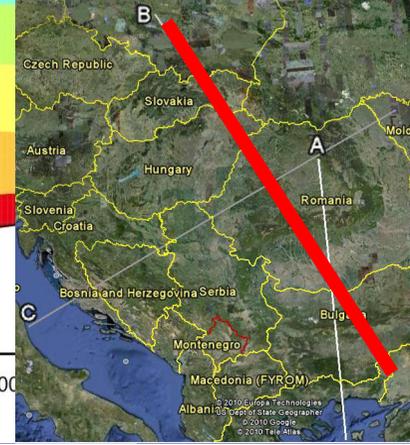
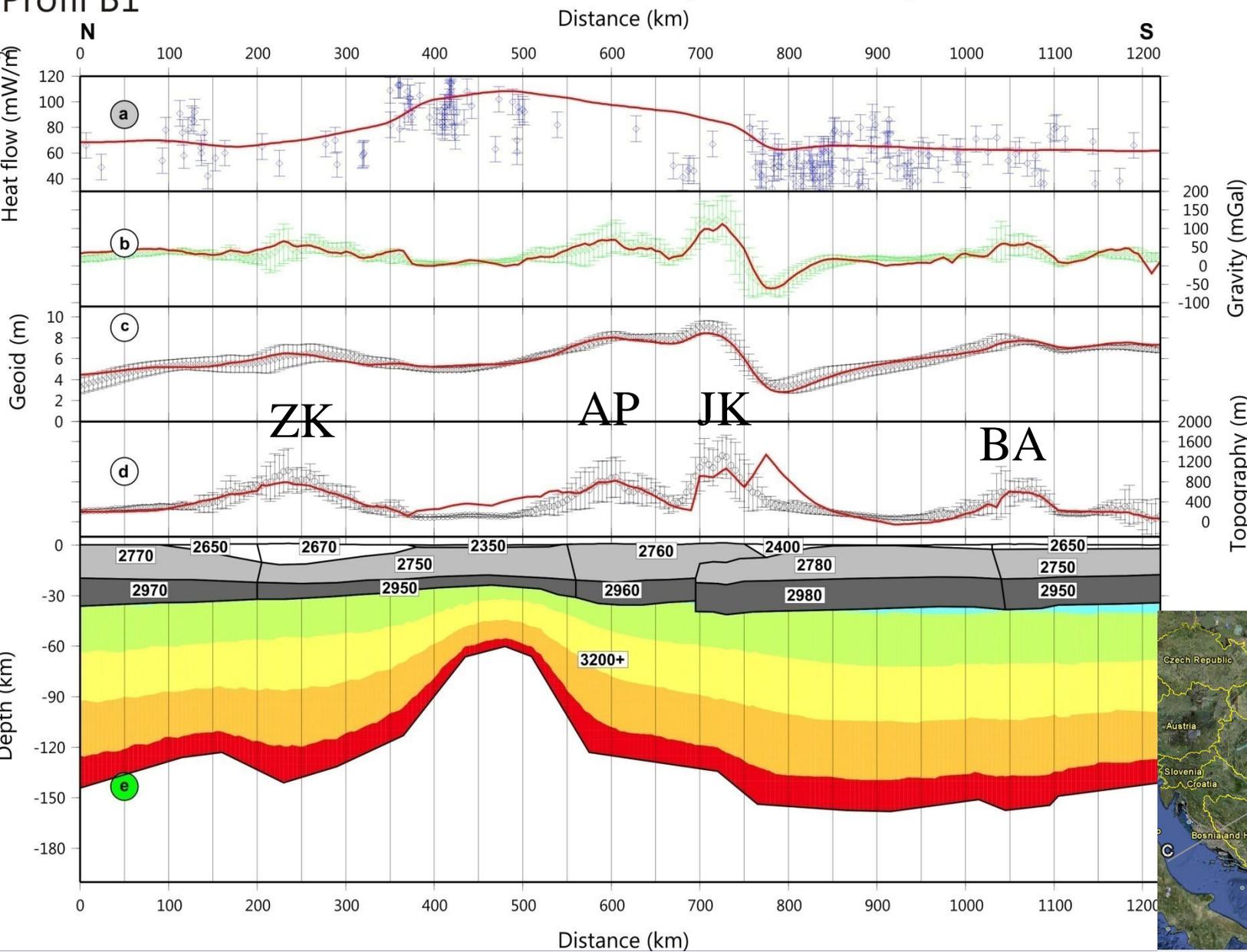




PROFILE B

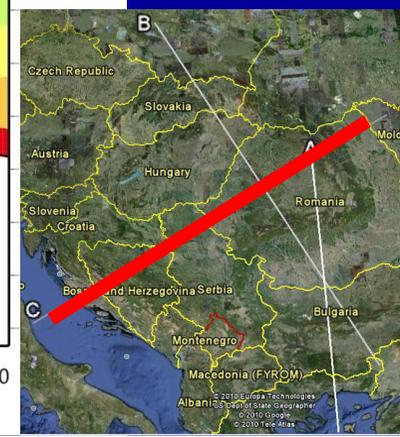
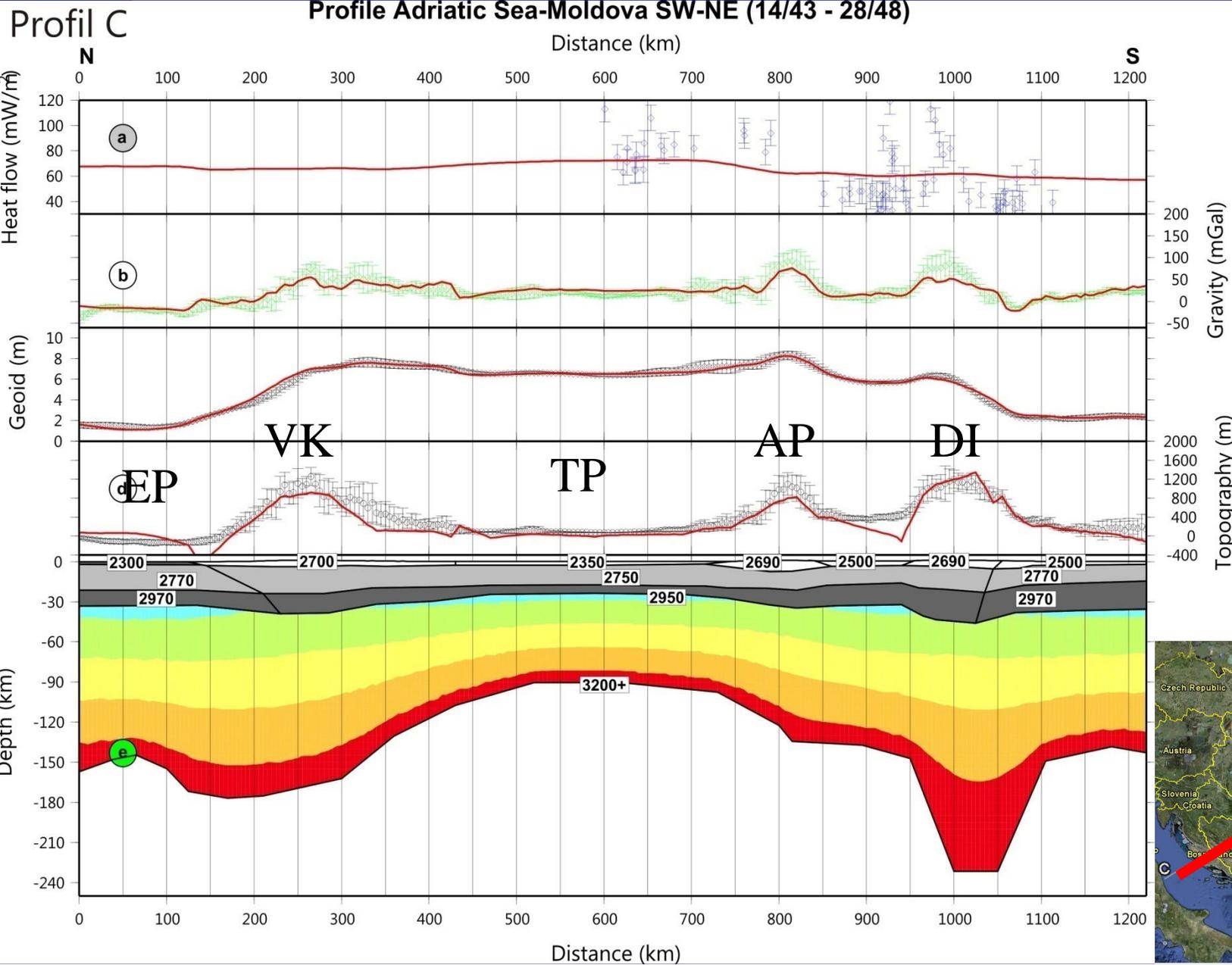
Profil B1

Profile Poland-Greece NW-SE (18.5/51 - 26.5/41.5)





PROFILE C





Slovenská geofyzikálna konferencia

Bratislava, 22. - 23. júna 2011



VÝSLEDKY APLIKOVANÉ PRI GEOGRAFICKEJ A GEOLOGICKEJ INTERPRETÁCII

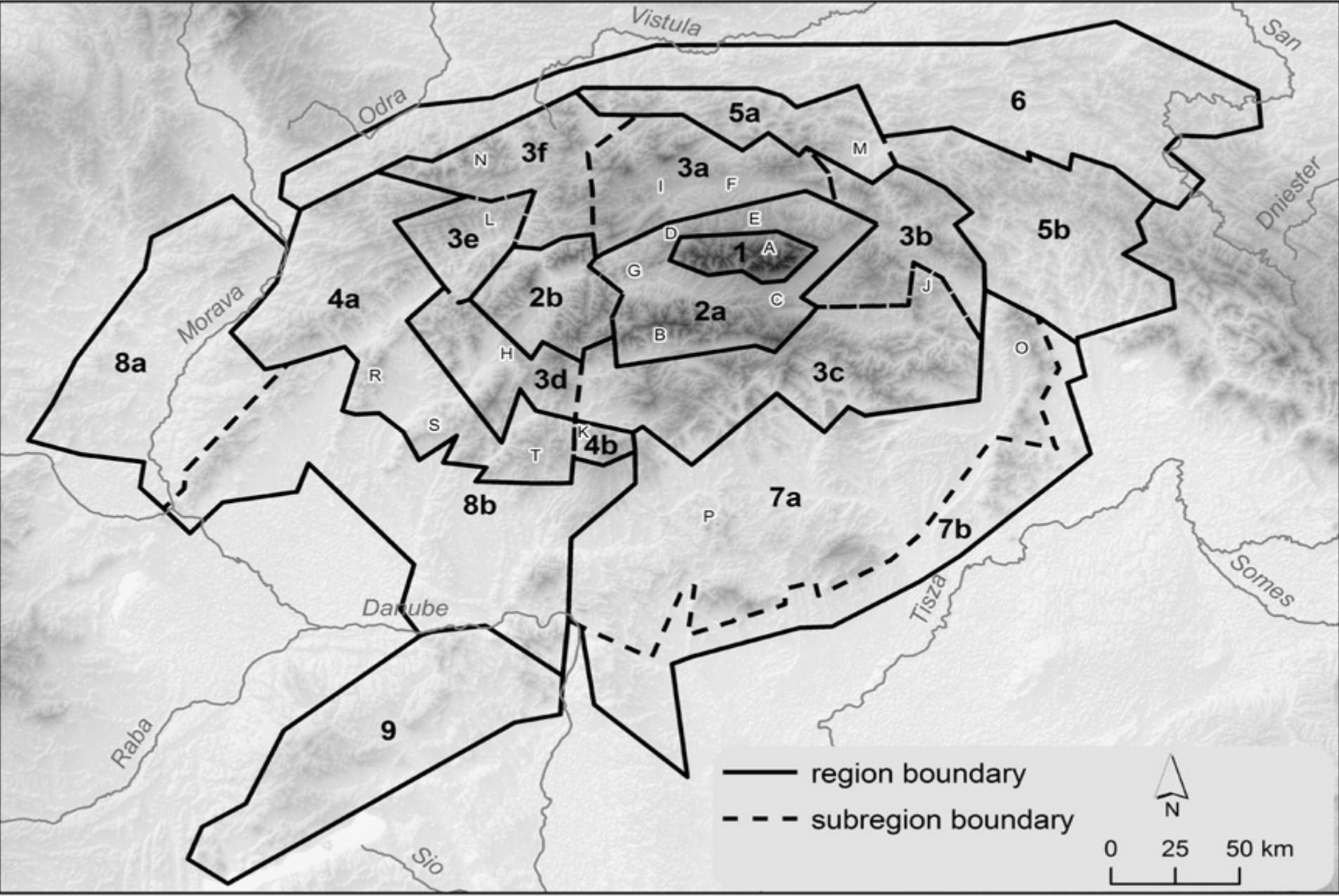
Journal of Geodynamics 52 (2011) 97–113

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Tectonophysics 502 (2011) 158–174



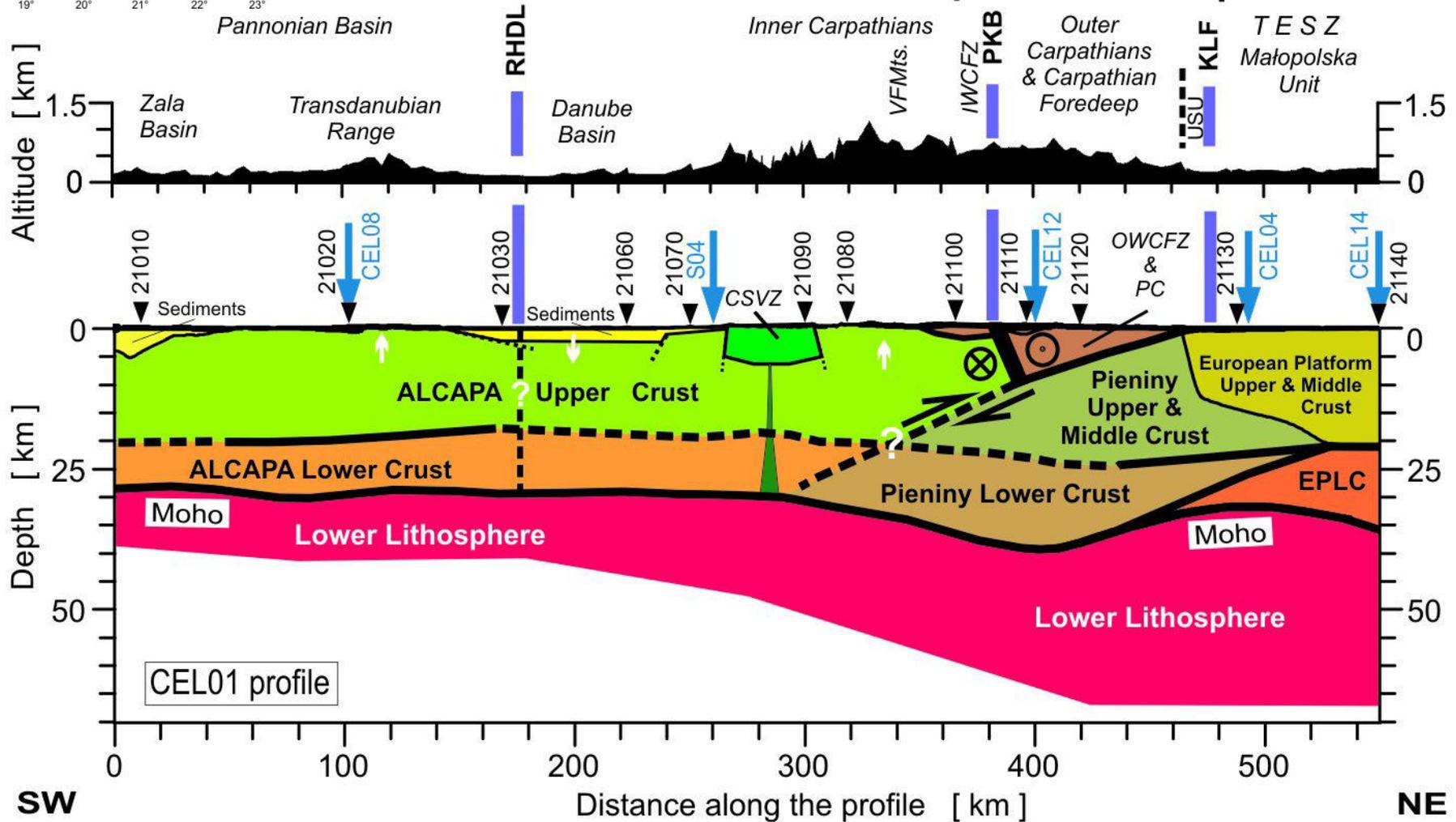
MORPHOSTRUCTURAL SUBDIVISION OF THE WESTERN AND GEOMORPHOLOGICAL UNITS



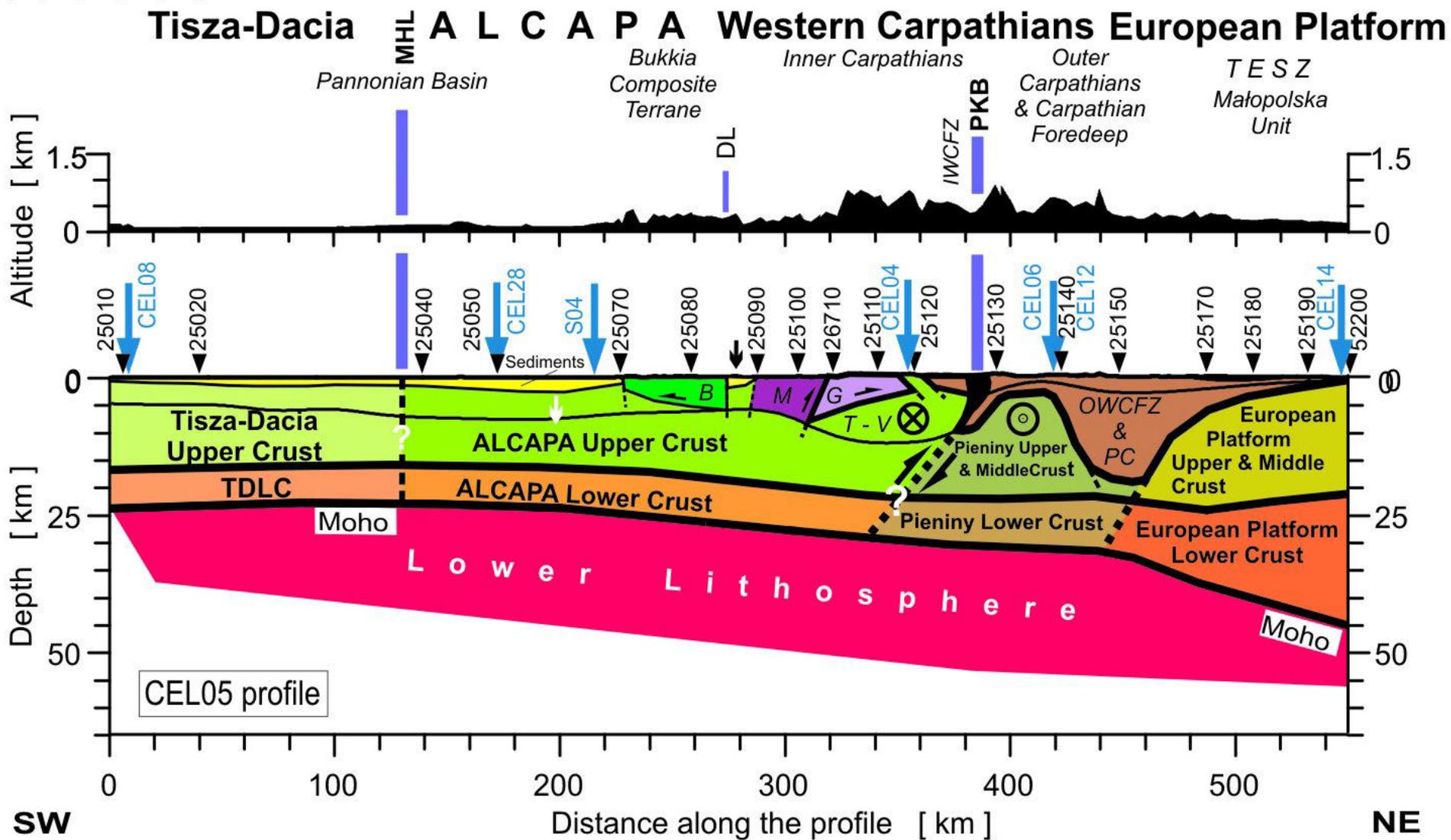
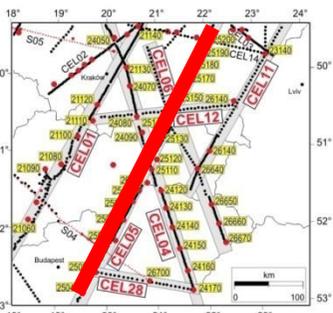
GEOLOGICAL MODEL ALONG PROFILE CEL01



ALCAPA Western Carpathians European Platform

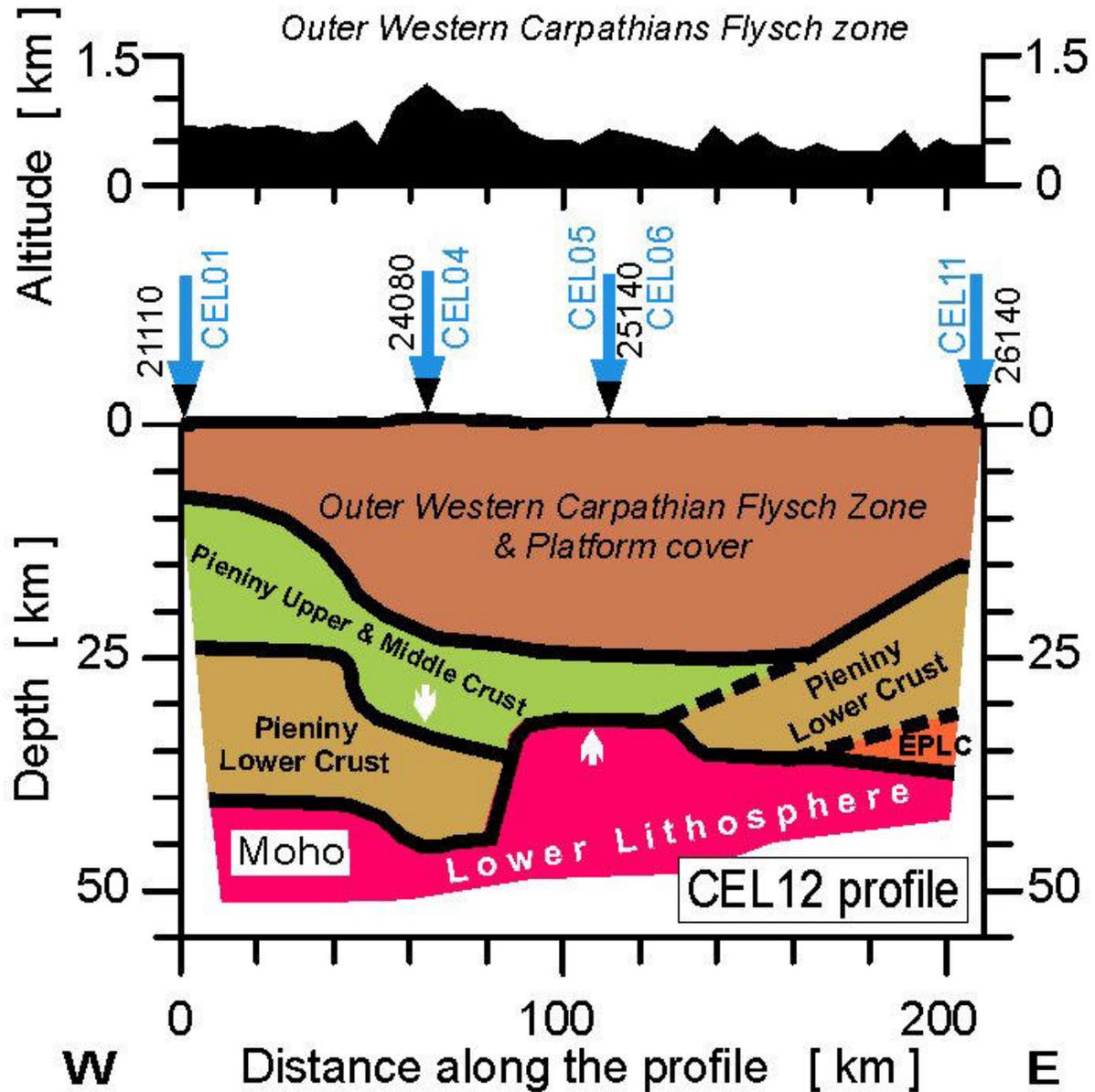
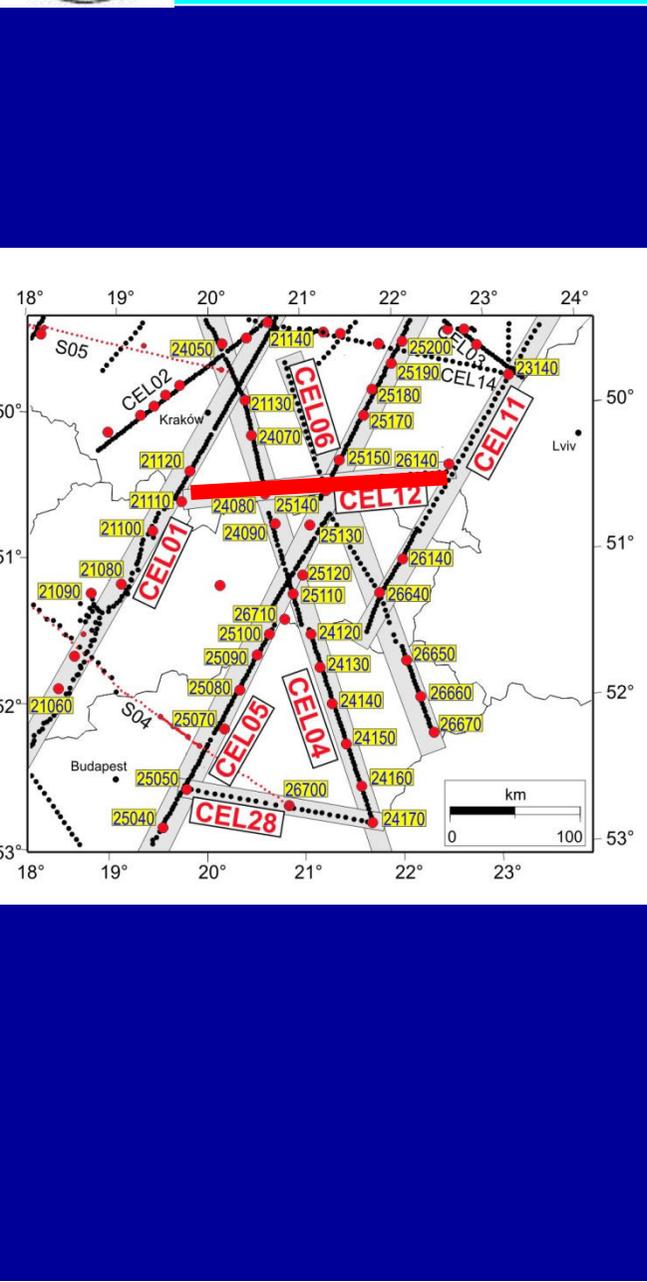


GEOLOGICAL MODEL ALONG PROFILE CEL05





GEOLOGICAL MODEL ALONG PROFILE CEL12





GEOLOGICAL BLOCK MODEL

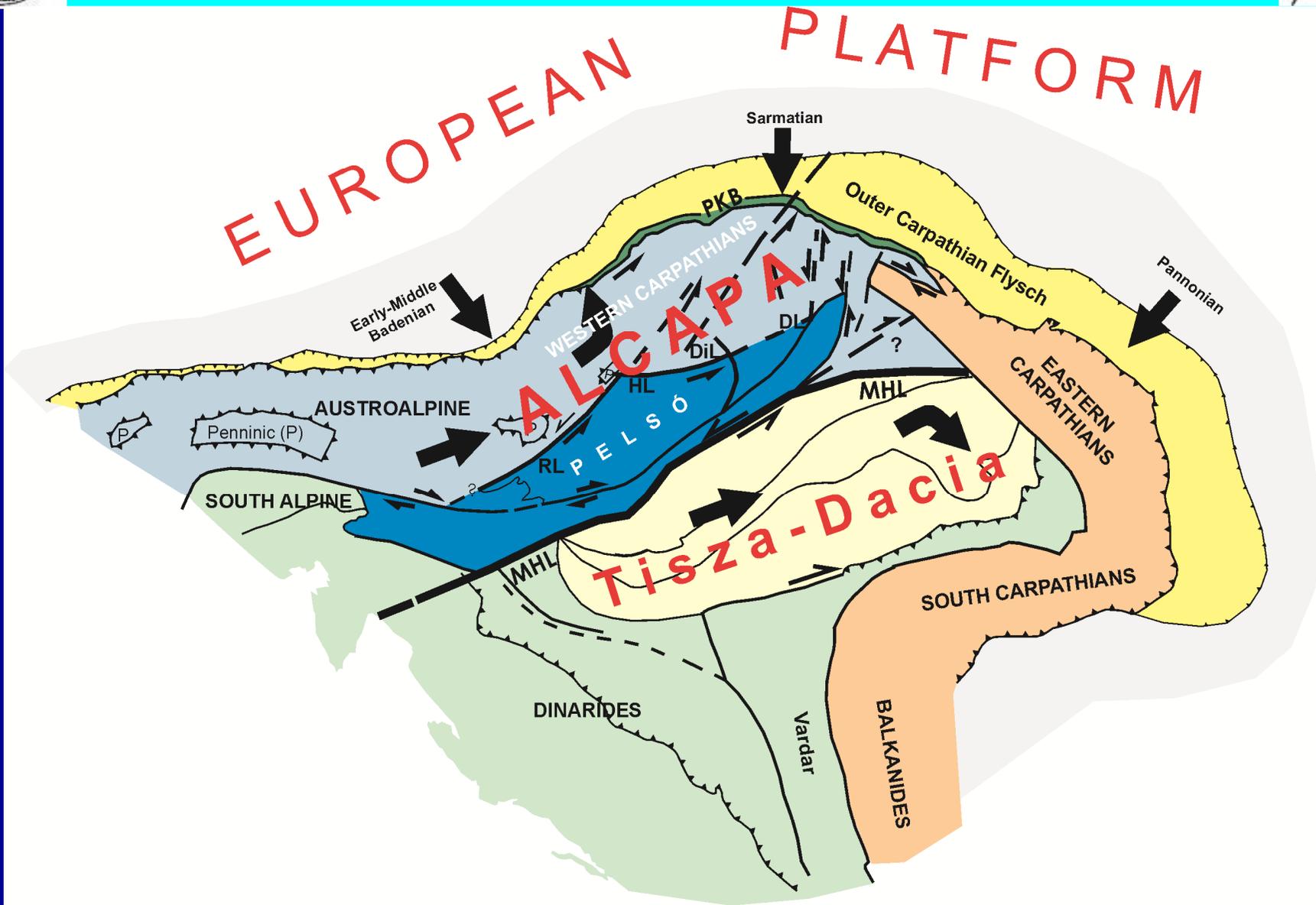


Fig. 15



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Ďakujem za Vašu pozornosť