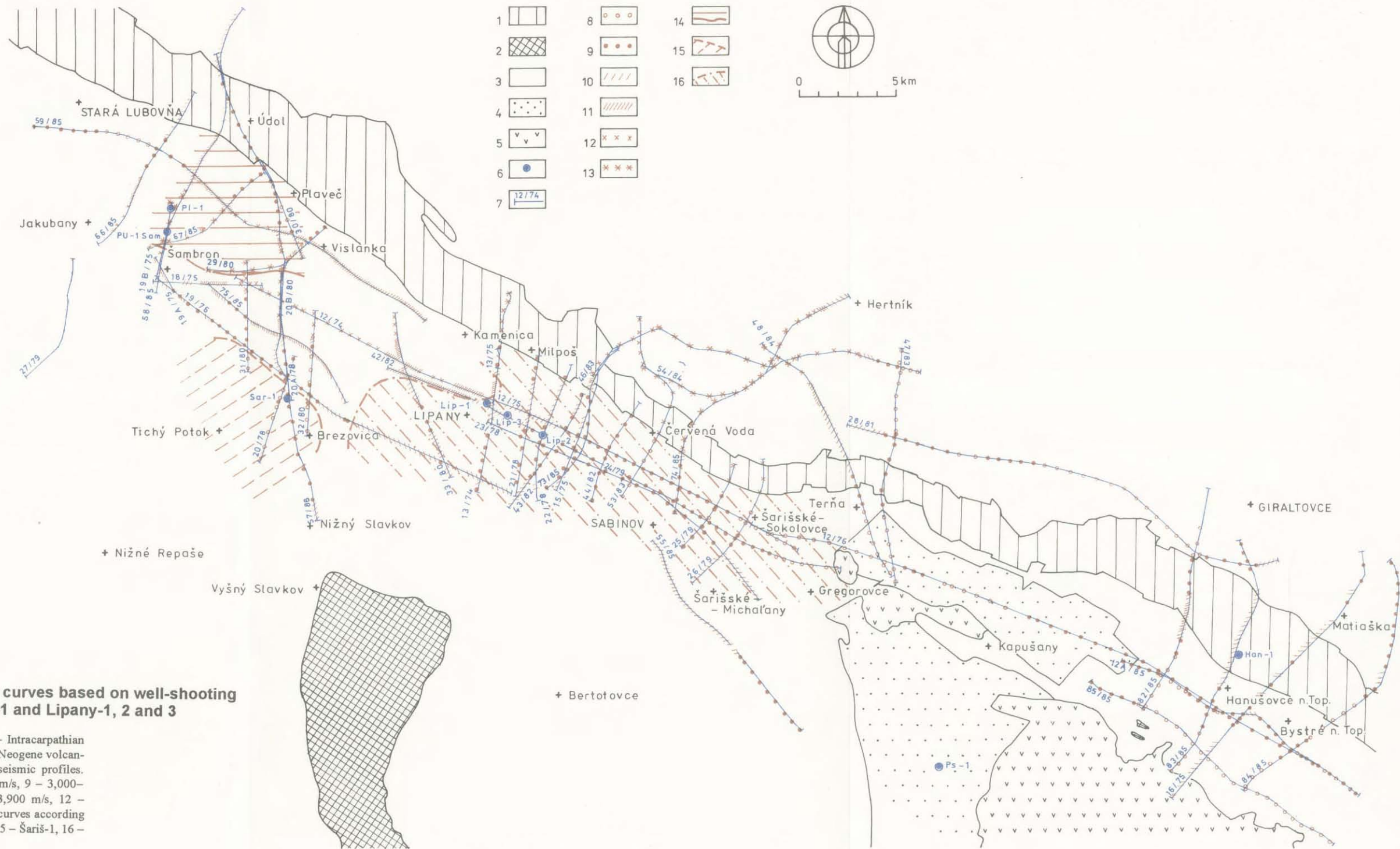
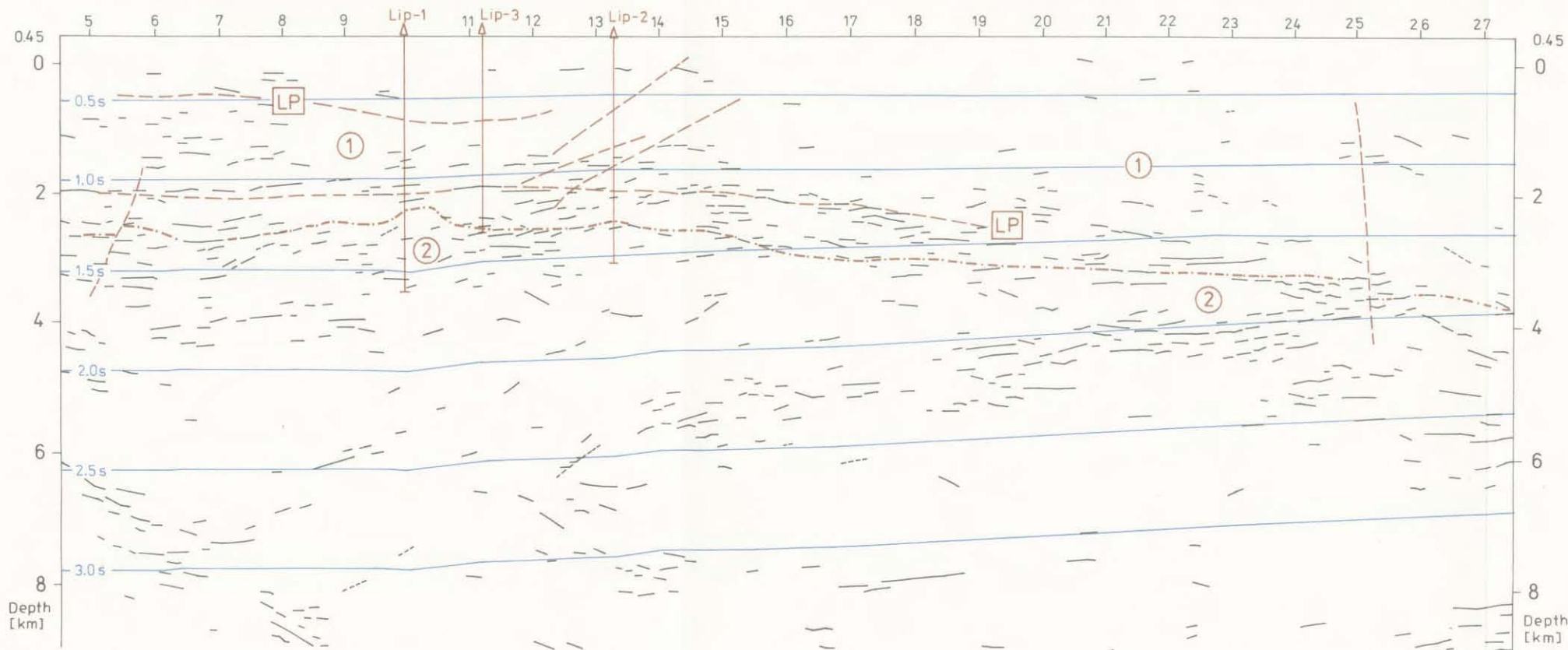
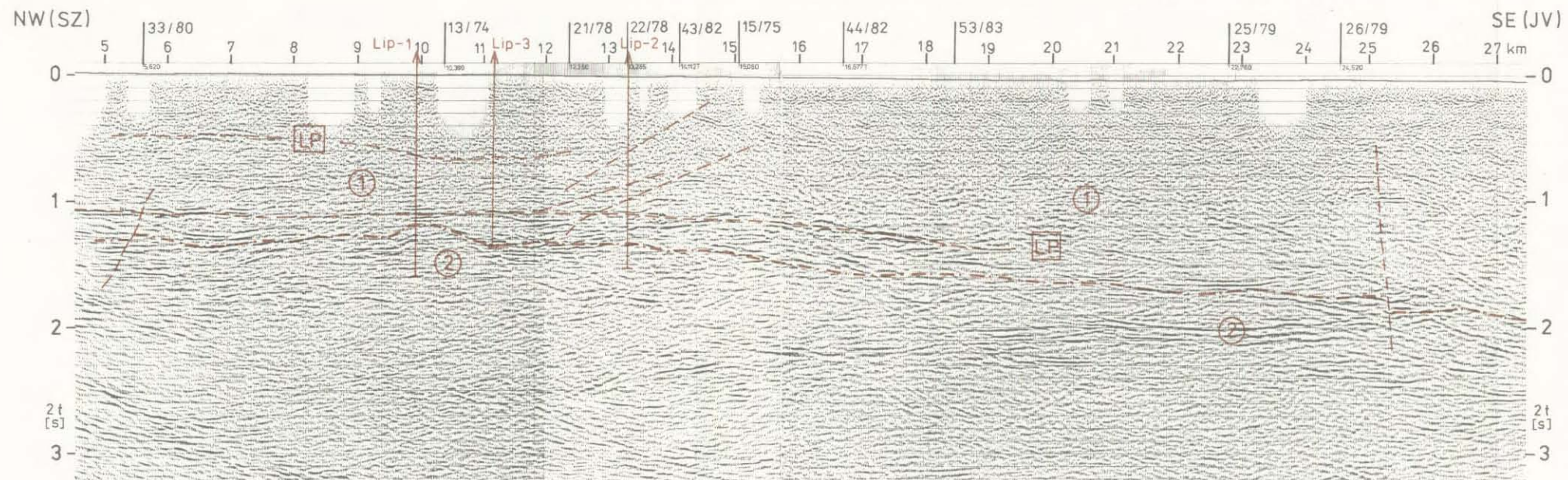


Geophysical investigations in the Intracarpathian Paleogene and in the East Slovak Flysch Belt (until 1986)

1 – Klippen Belt; 2 – pre-Tertiary complexes; 3 – Intracarpathian Paleogene and flysch; 4 – Neogene sediments; 5 – Neogene volcanites; 6 – CDP seismic profiles (profiles 19/76, 22/78, 26/79, 20/78-20A/78-20B/80 and 42/82 are drawn with heavy lines in Figs. 2,3,4, and 5, and in Pl. 3); 7 – seismic parametric measurements (since 1972); 8 – reflection seismic profiles (single coverage – oscillographic registration, "reguliroemjy napravlenyj prijom" –

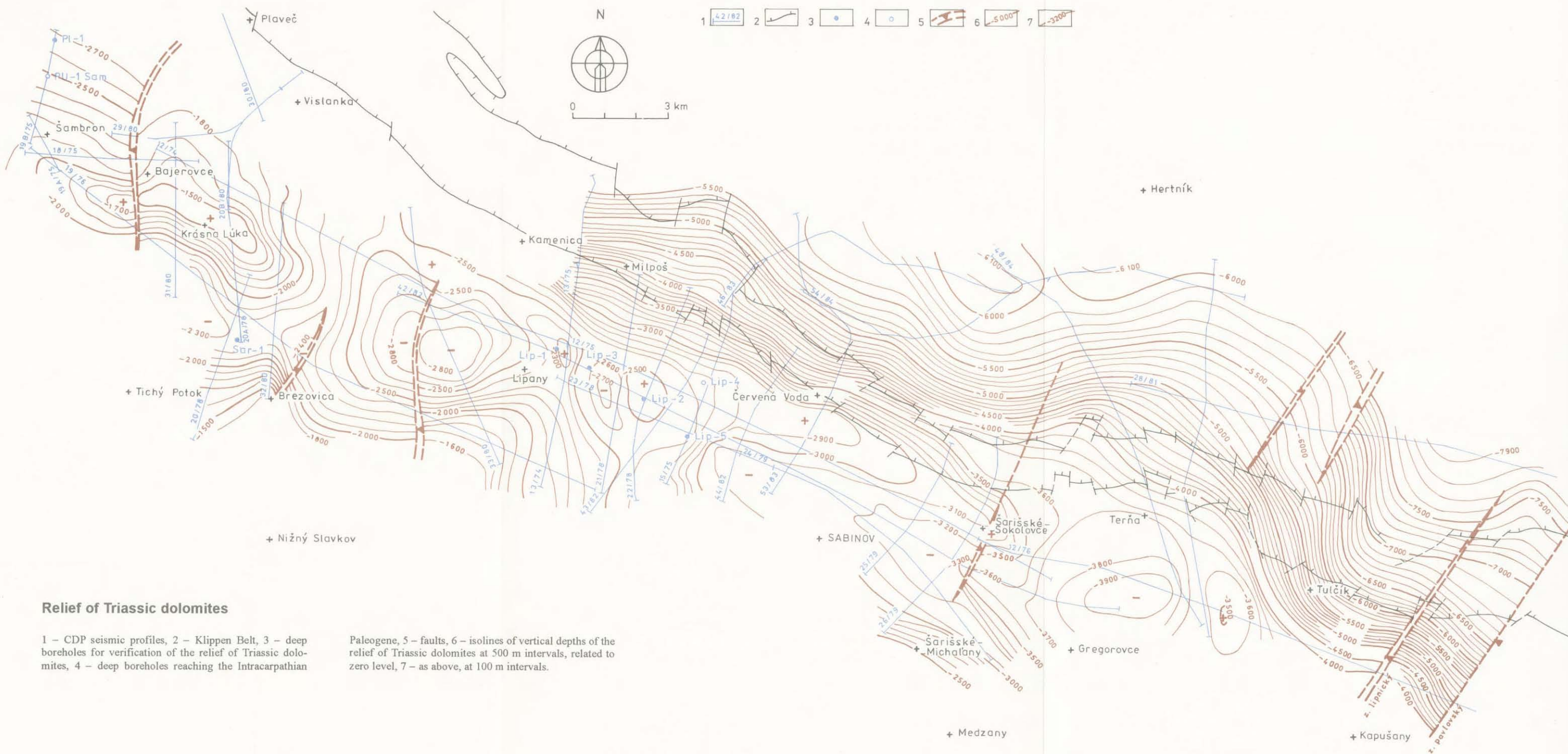
RNP, deep seismic sounding – DSS); 9 – refraction seismic profile; 10 – well-refraction profiles; 11 – boreholes for physical properties of rocks; 12 – boreholes for well-shooting and VSP; 13 – boreholes with well-refraction measurements. Boreholes: Han – Hanušovce, MLS-1 Hu – Humenné, Lip – Lipany, Pl – Plavnica, Smi – Smilno, PU-1 Sam – Šambron, Sar – Šariš, Zj – Zboj.





Seismic profile 42/82 (part)

Top: time section with geologic interpretation (12-fold coverage, interval between the points of arrival 50 m, time-variable filtration and deconvolution, wave field coherency, wave migration).
 Bottom: depth section with geologic interpretation and graphic demonstration of the dependence of two-way time on depth. The dependence is based on well-shooting in boreholes Lipany-1, 2 and 3.
 1 – Intracarpathian Paleogene, 2 – Middle Triassic dolomites, LP – Lipany overthrusts.



Relief of Triassic dolomites

1 - CDP seismic profiles, 2 - Klippen Belt, 3 - deep boreholes for verification of the relief of Triassic dolomites, 4 - deep boreholes reaching the Intracarpathian

Paleogene, 5 - faults, 6 - isolines of vertical depths of the relief of Triassic dolomites at 500 m intervals, related to zero level, 7 - as above, at 100 m intervals.