

SEEK SIMPLICITY, AND DISTRUST IT...



Alfred North Whitehead
1861-1947

Szukaj prostoty, i nie dowierzaj jej...

LOW-ANGLE DETACHMENT RELATED TO STRIKE-SLIP FAULTING IN LATE CRETACEOUS MUDSTONES OF THE TABLE MOUNTAINS (SW POLAND)



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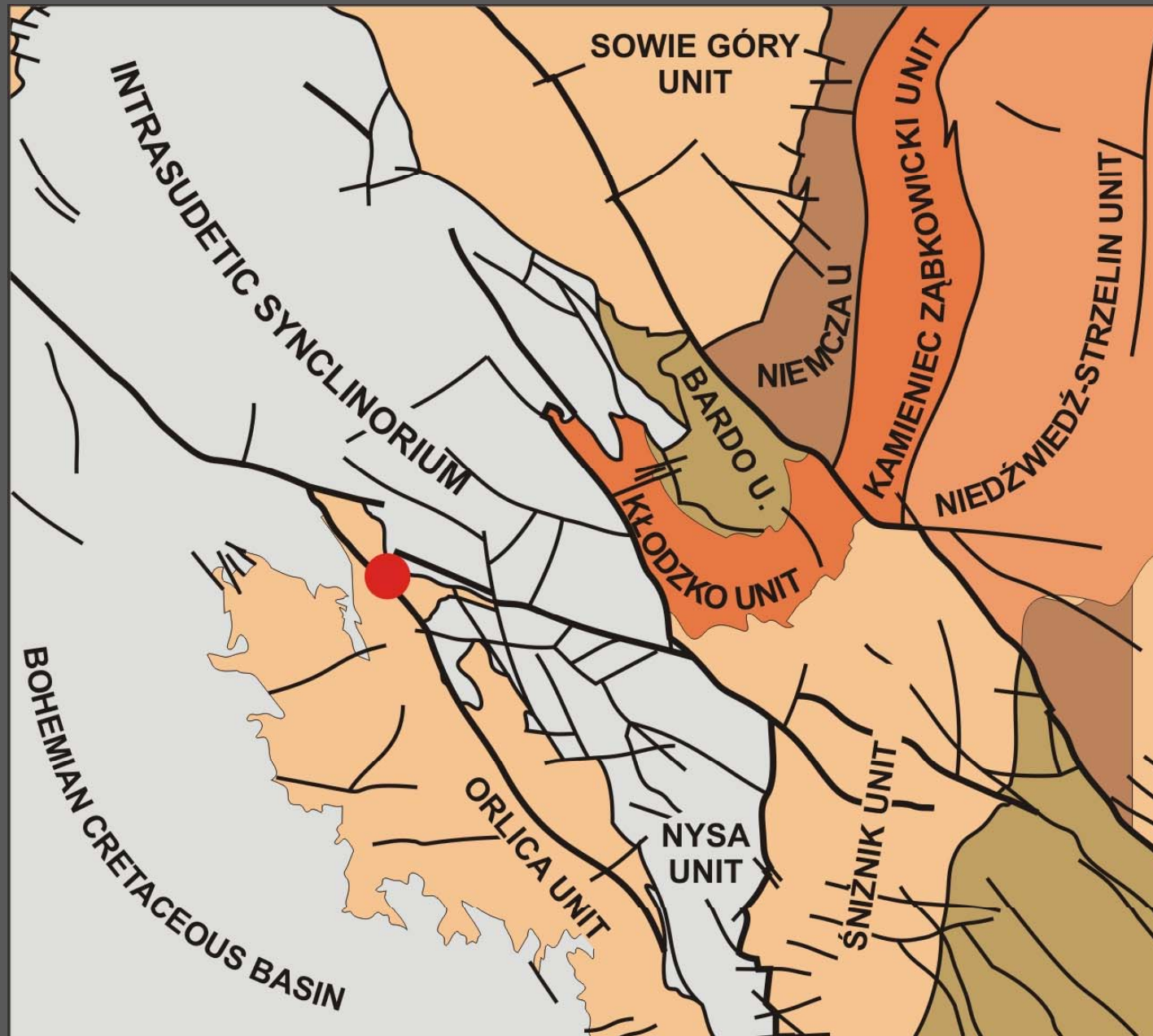
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50-204 Wrocław
Poland



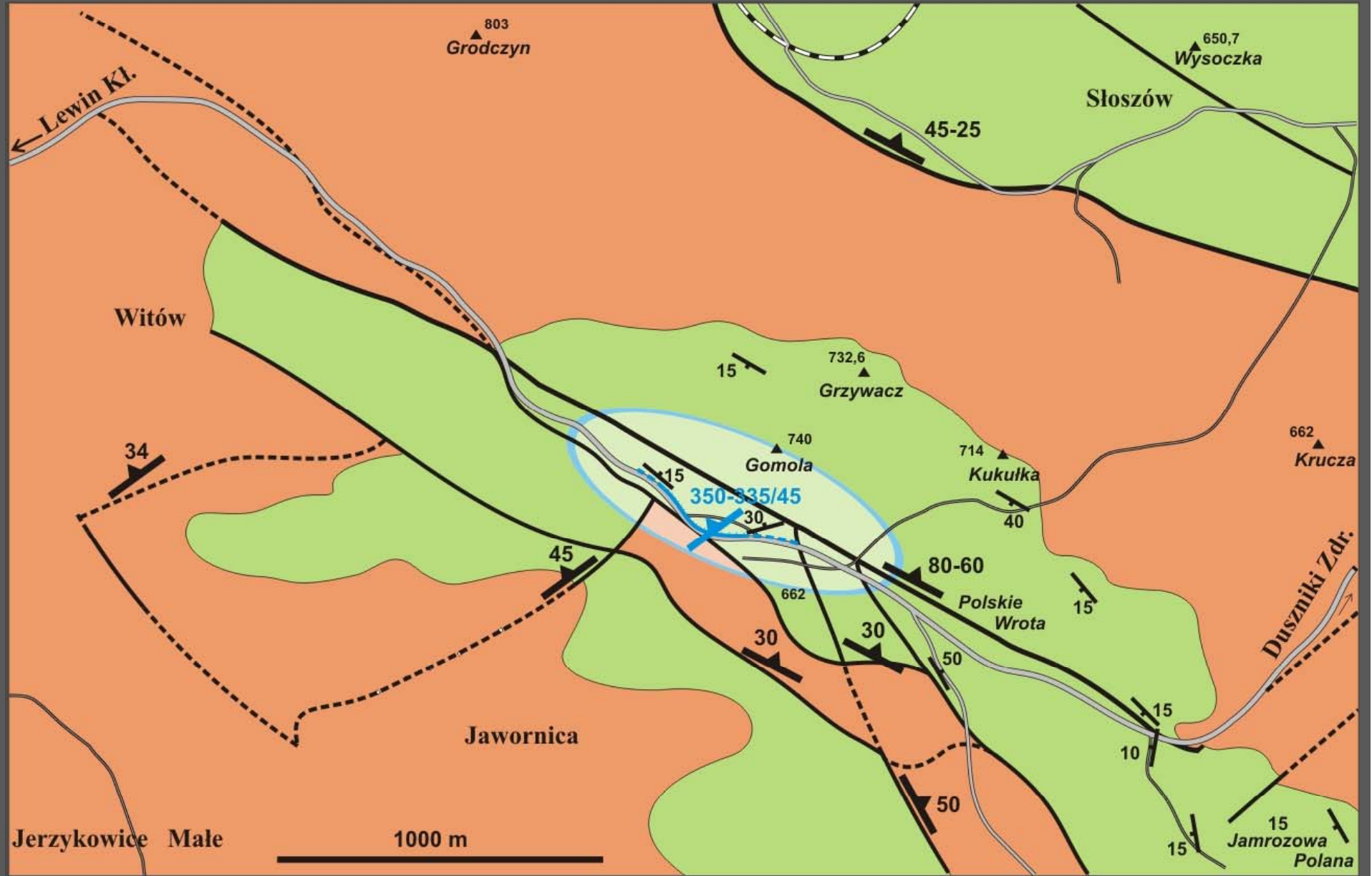
location sketch map



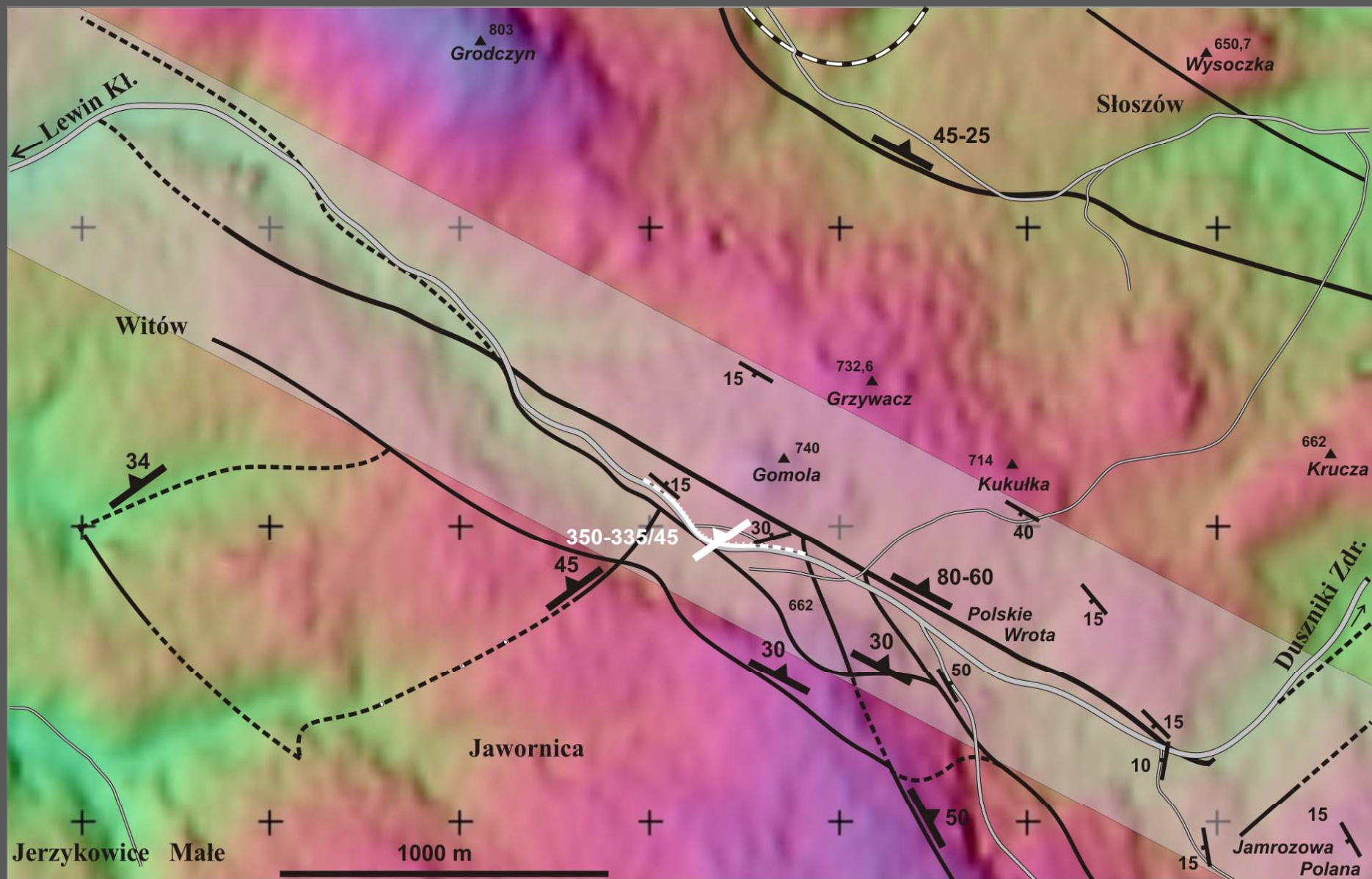
regional structural units



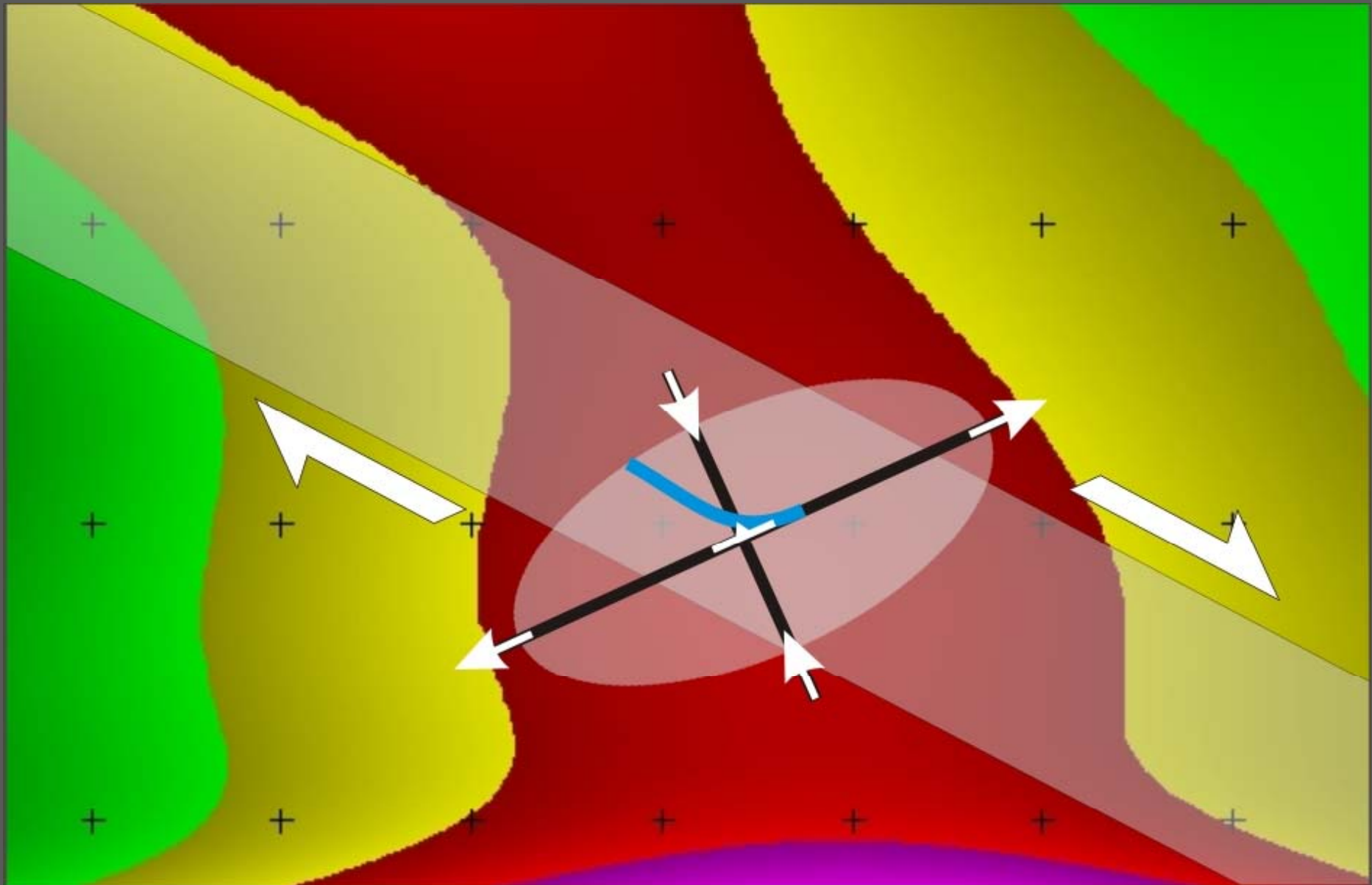
geological scheme of the Homole syncline and detachment



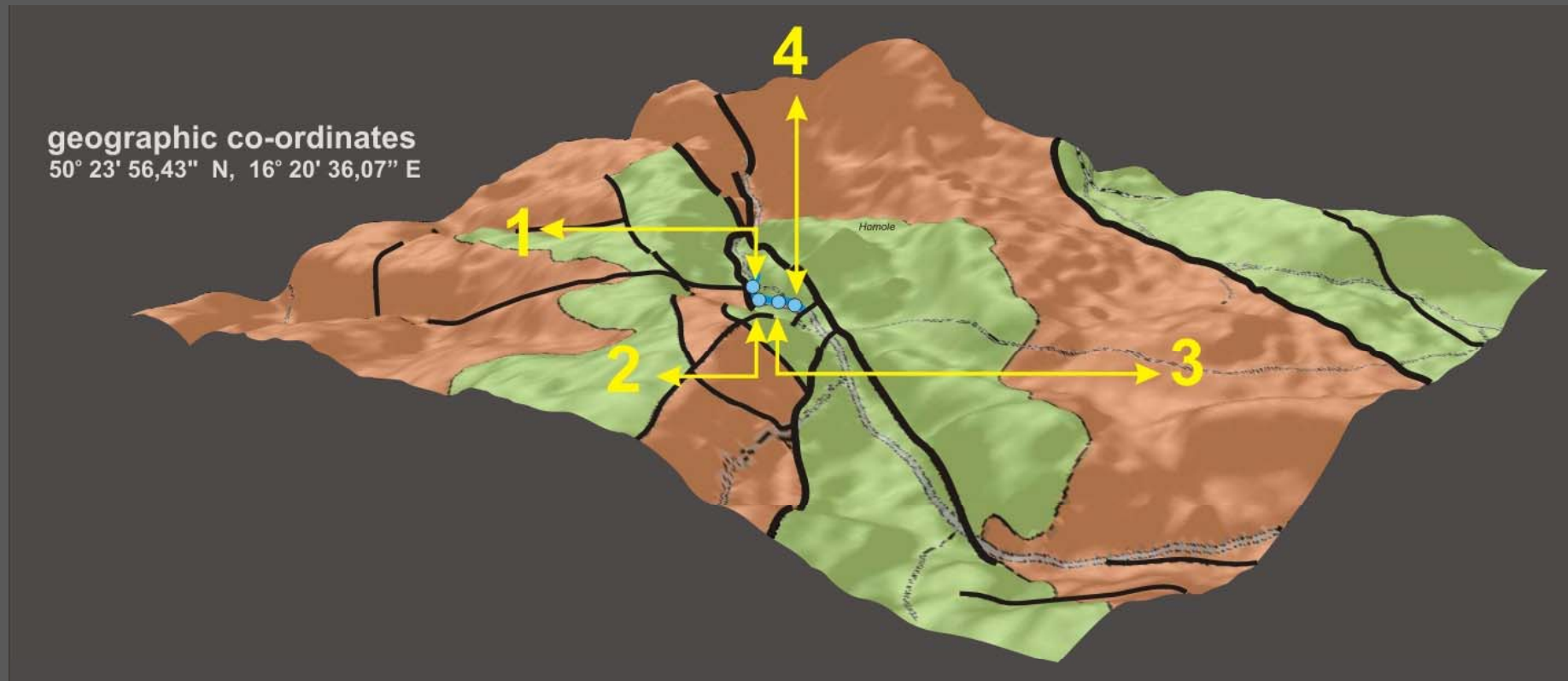
NW-SE trending faults, valleys and ranges system (SRTM 30)



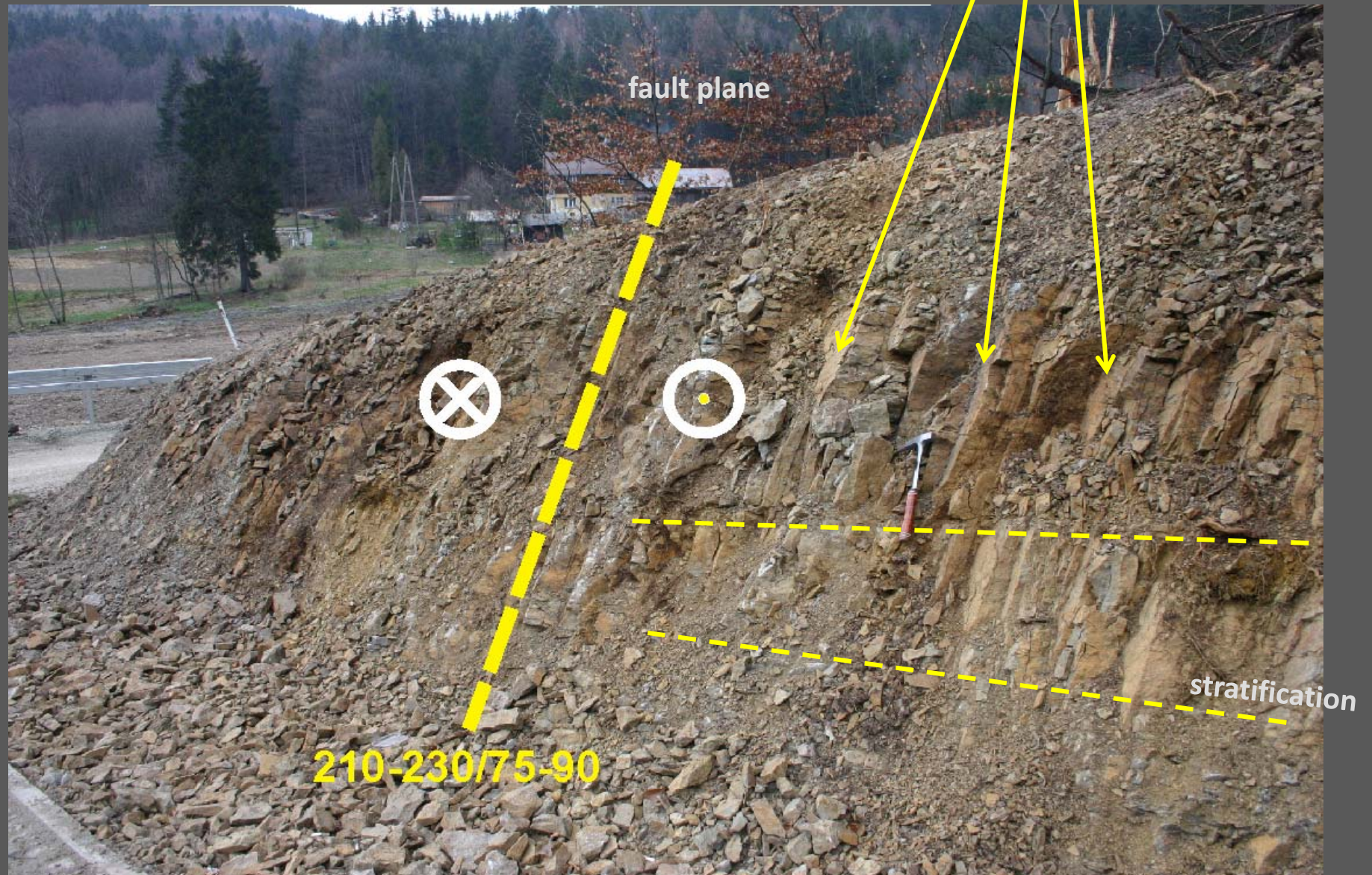
regional shearing & resultant morphological trend (SRTM 30)



regional shearing & resultant morphological trend (SRTM 30)



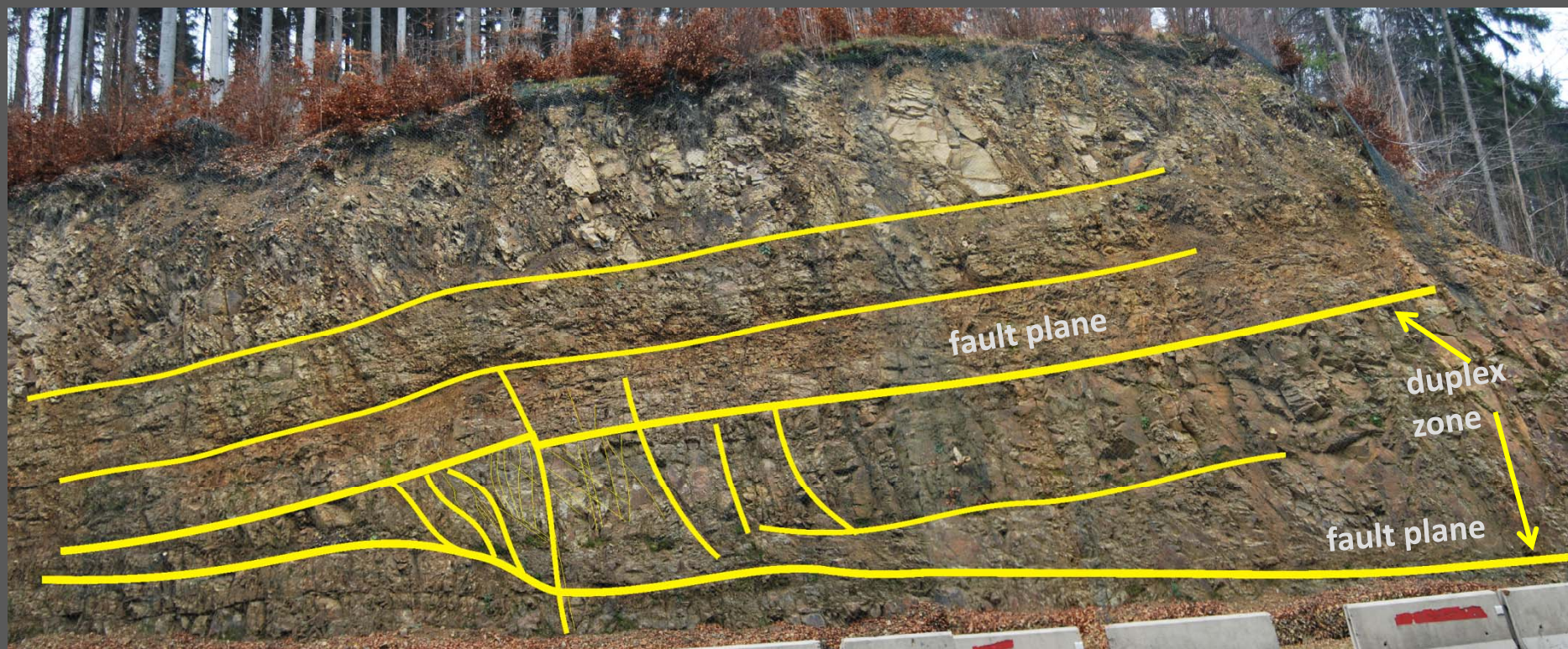
1



2



3



4



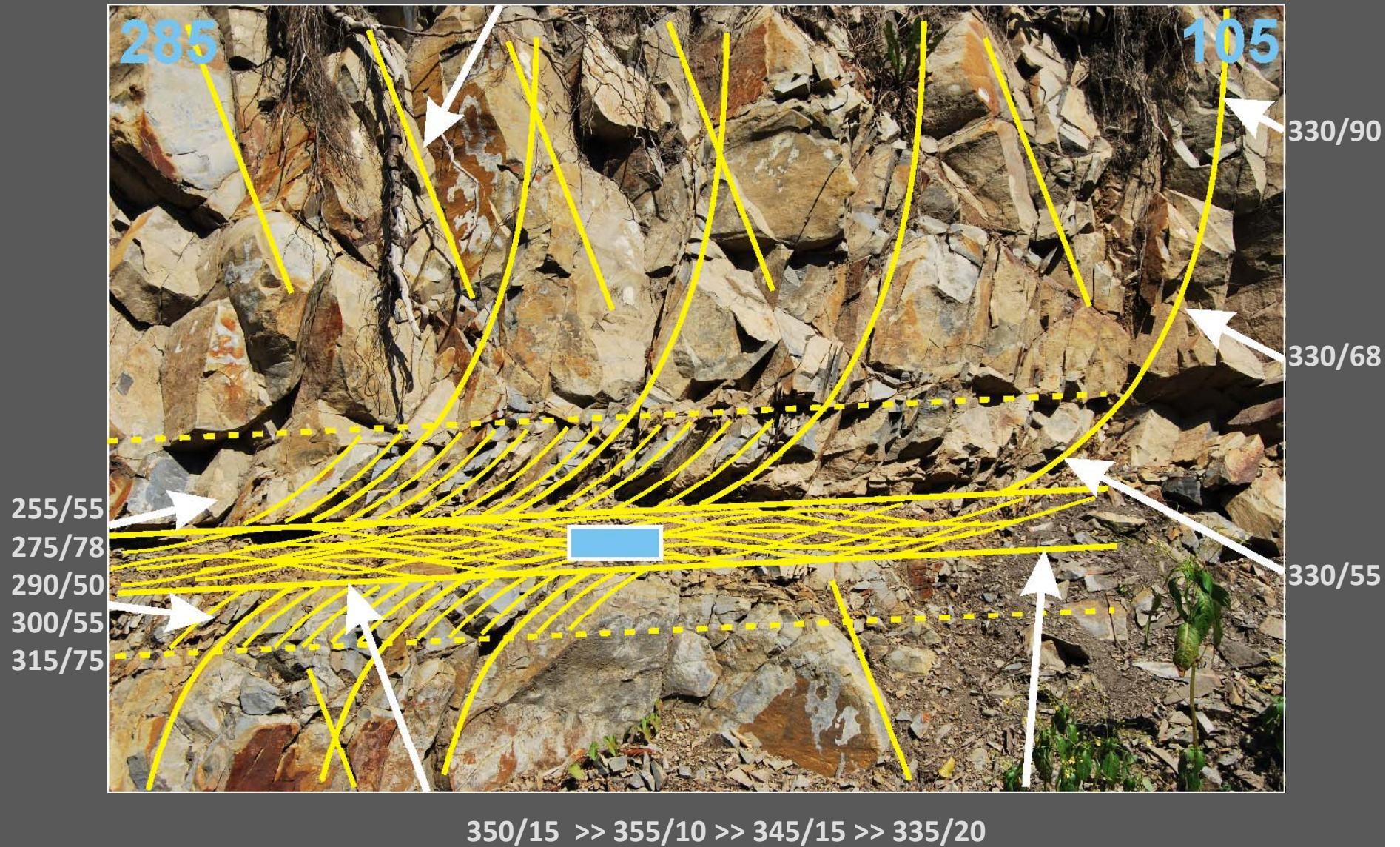
4'



fault
plane

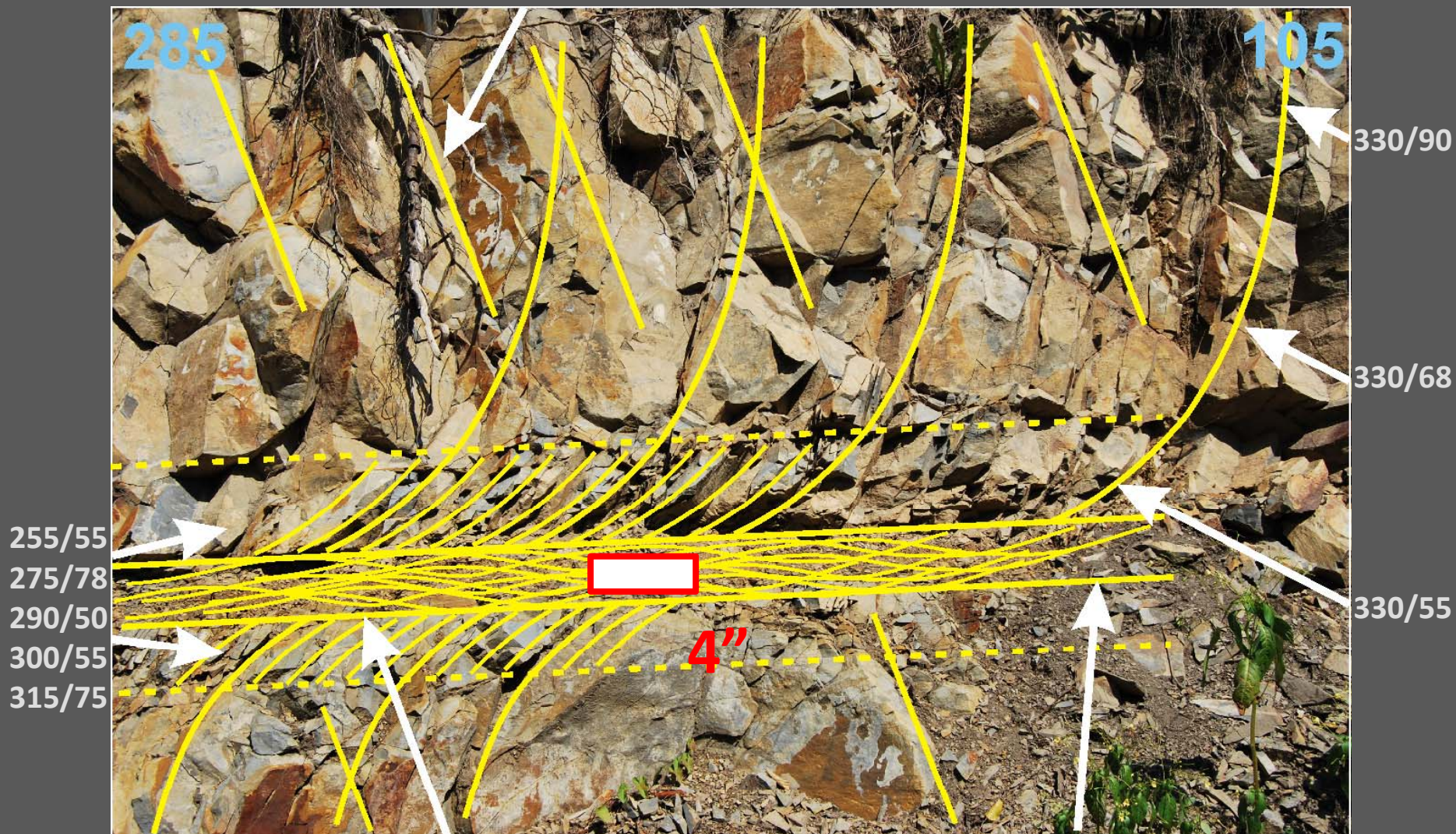
4'

190/85 - 160/63



4'

190/85 - 160/63



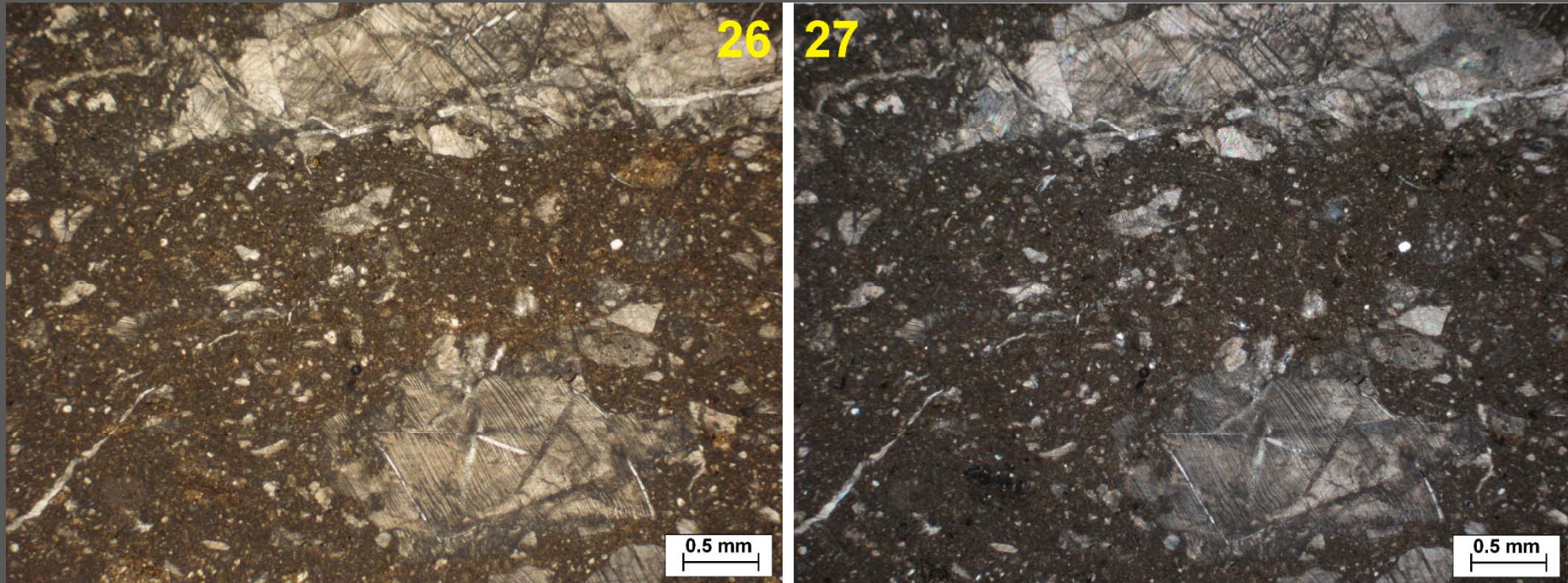
350/15 >> 355/10 >> 345/15 >> 335/20

4"

26 - 27



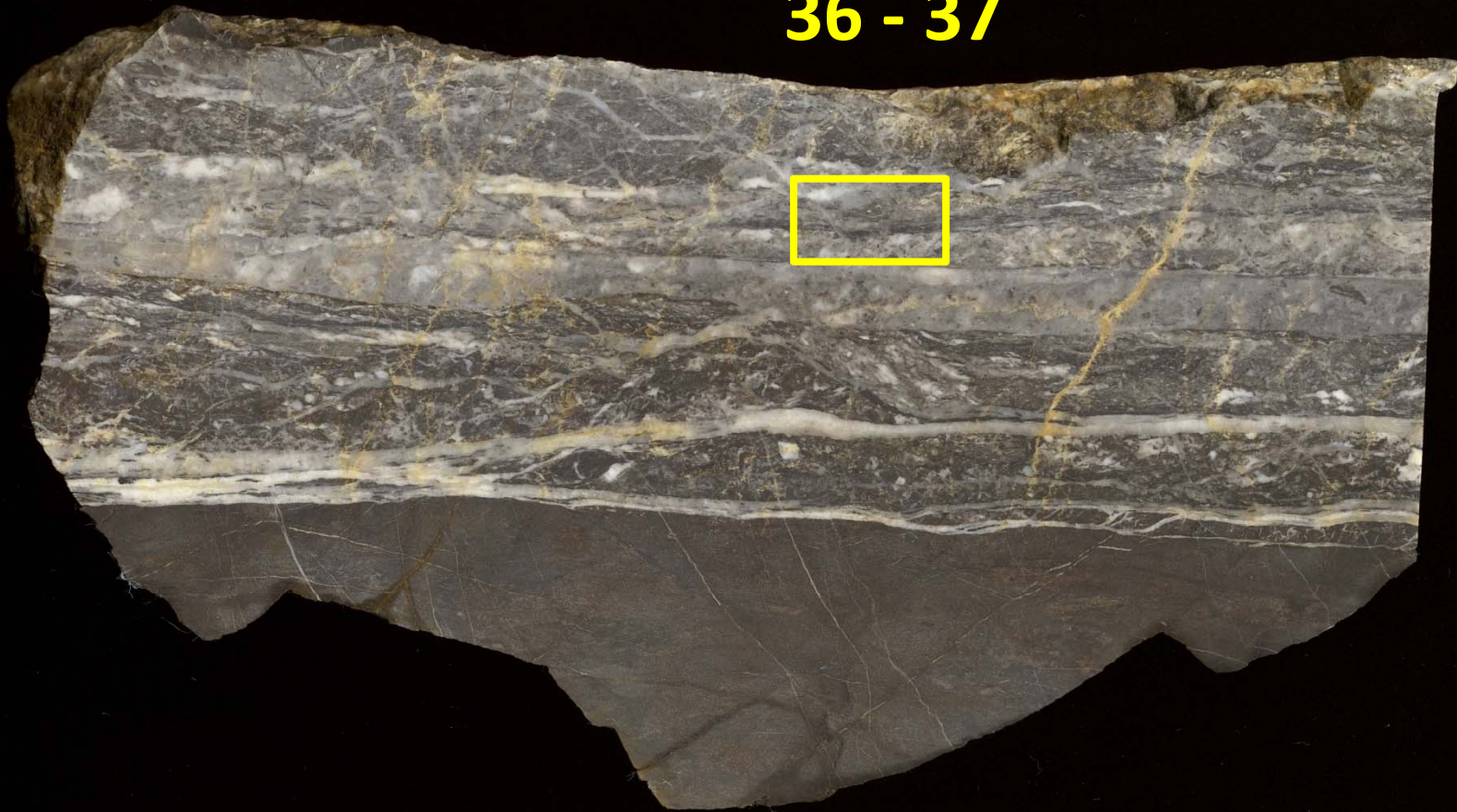
PHOT. by S. Koszela (Poznań University)



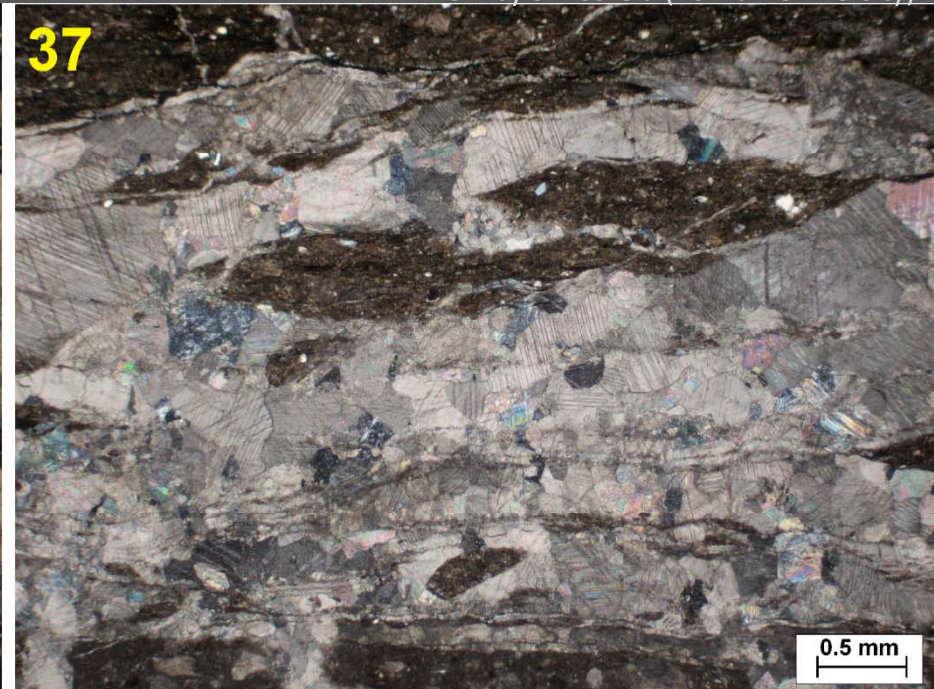
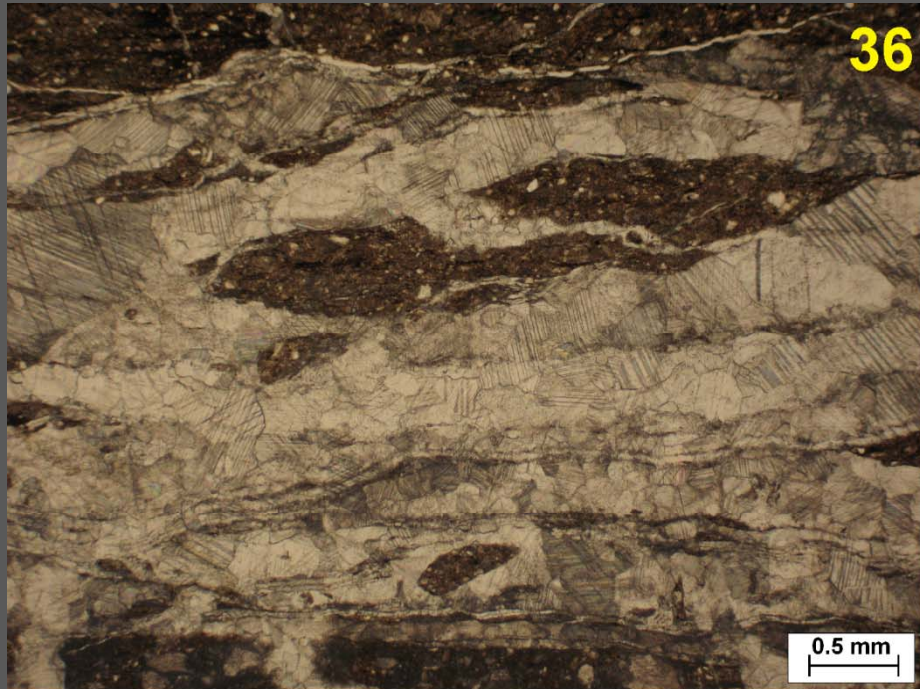
Shear zone, containing coarse-grained calcite veins in its upper part and breccia with carbonate clasts (calcite) in marly matrix.

4"

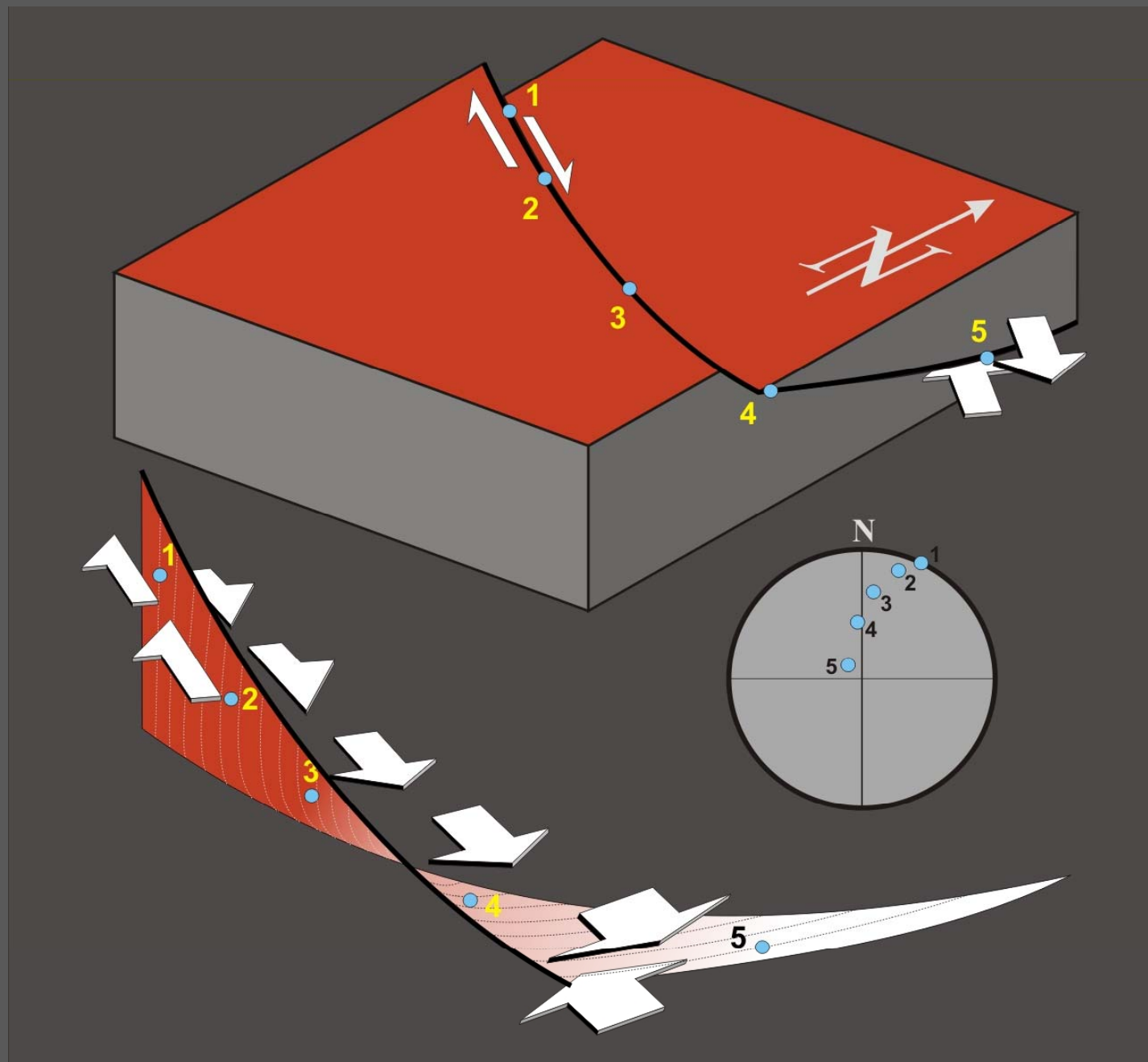
36 - 37



PHOT. by S. Kozzela (Poznań University)



Late generation of calcite veins (bright, deformed streaks) crosscutting older calcite veins in the breccia



The tectonic setting of the studied outcrops as well as the orientation of the joint sets and the internal structural features of the **detachment shear zone** seem to support a conjecture that the detachment originated due to **thrusting** in a local **transpressional regime** related to the nearby NW-SE trending regional-size **strike-slip fault** system, SSFS, that was active probably in **latest Cretaceous** and during **Cenozoic** times.

Thank you for attention...