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Wrocław University

Synsedimentary seismotectonic features (?) in Triassic and Cretaceous sediments within the Intrasudetic Shear Zone (ISZ) - regional implications



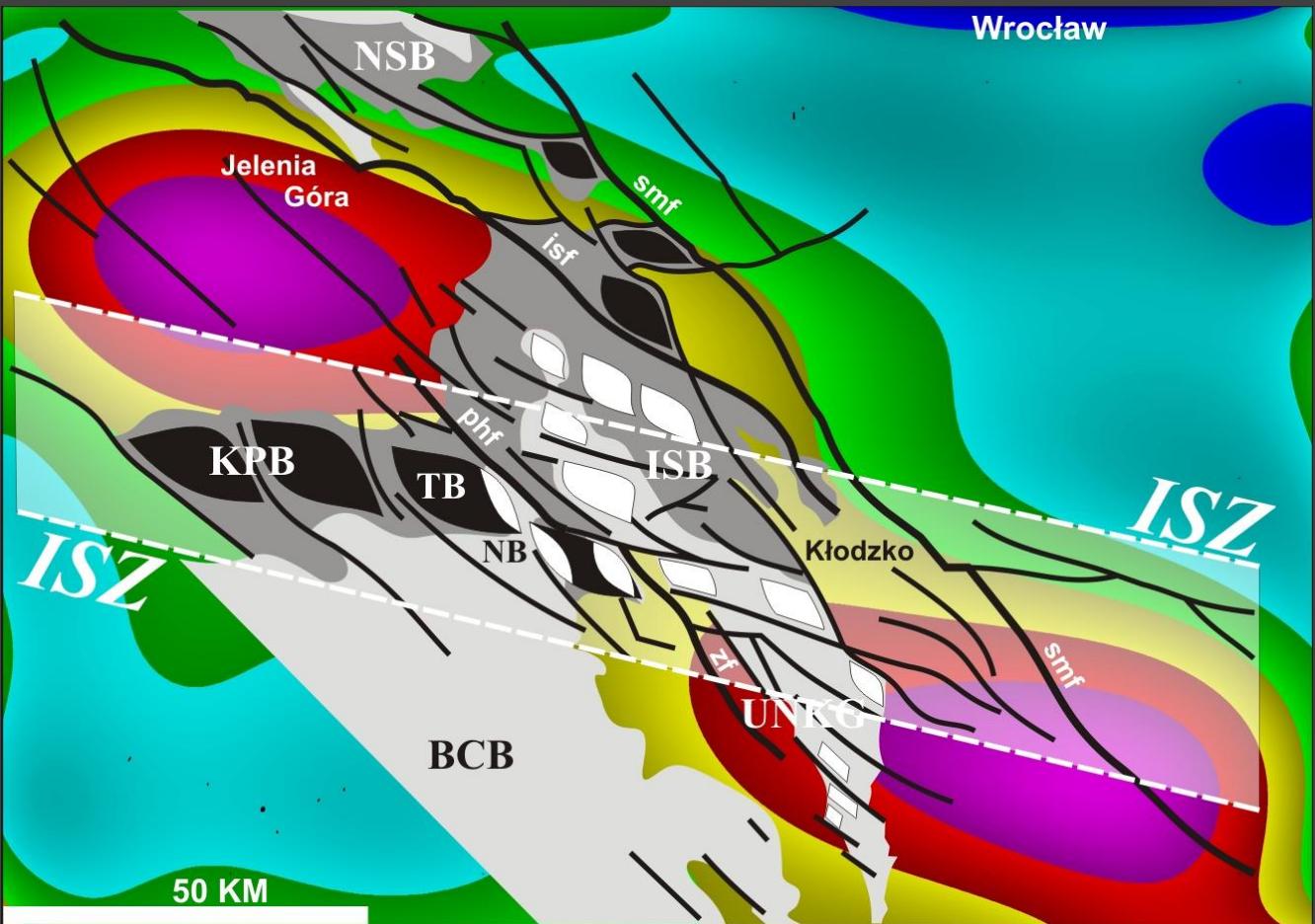
śródsudecka strefa ściania Intrasudetic Shear Zone (ISZ)



NEOTECTONIC ASPECT OF THE INTRASUDETCIC SHEAR ZONE

Jurand WOJEWODA

Acta Geodyn. Geomater., Vol. 4, No. 4 (148), 31-41, 2007



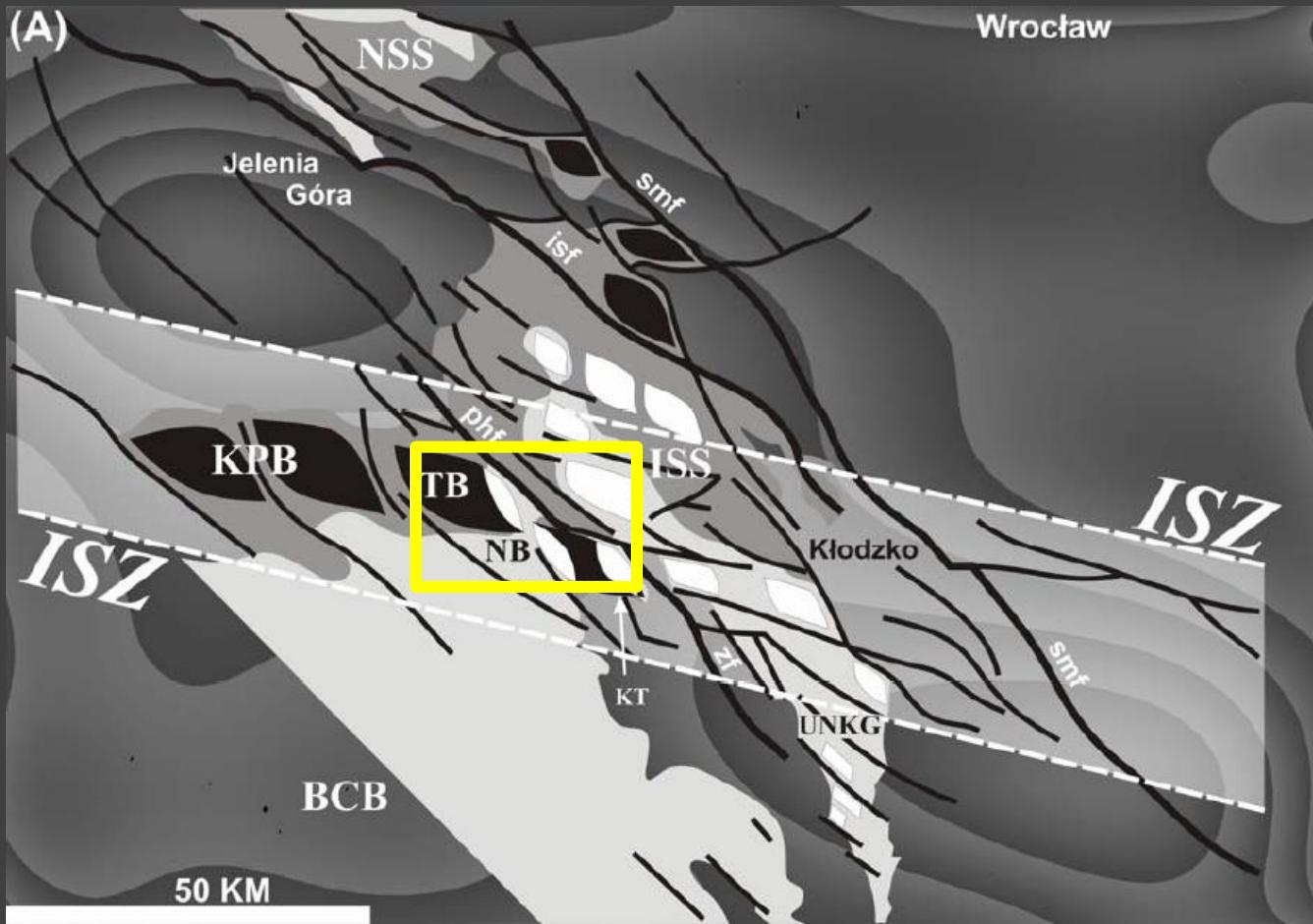
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NEOTECTONIC ASPECT OF THE INTRASUDETCHE SHEAR ZONE

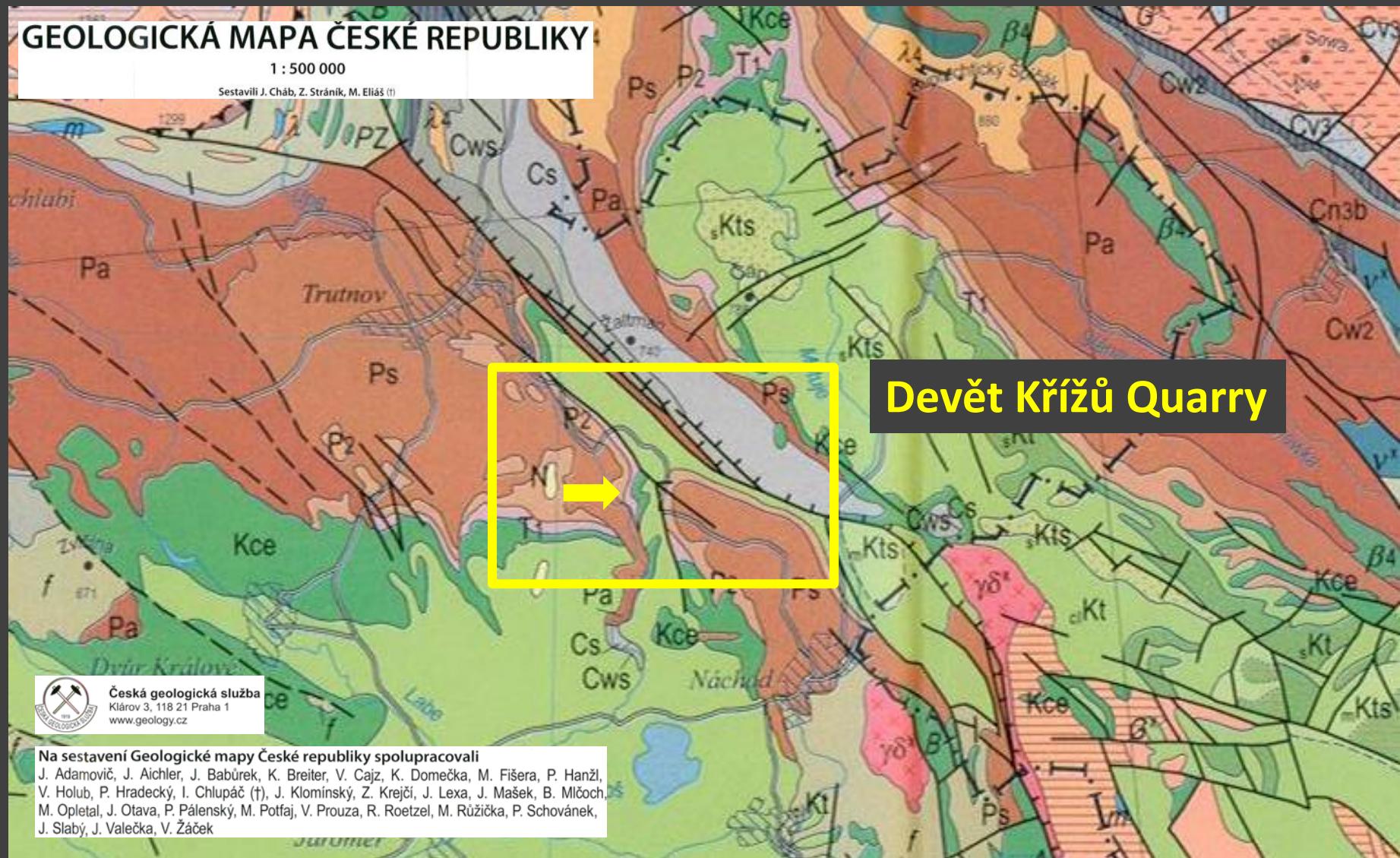
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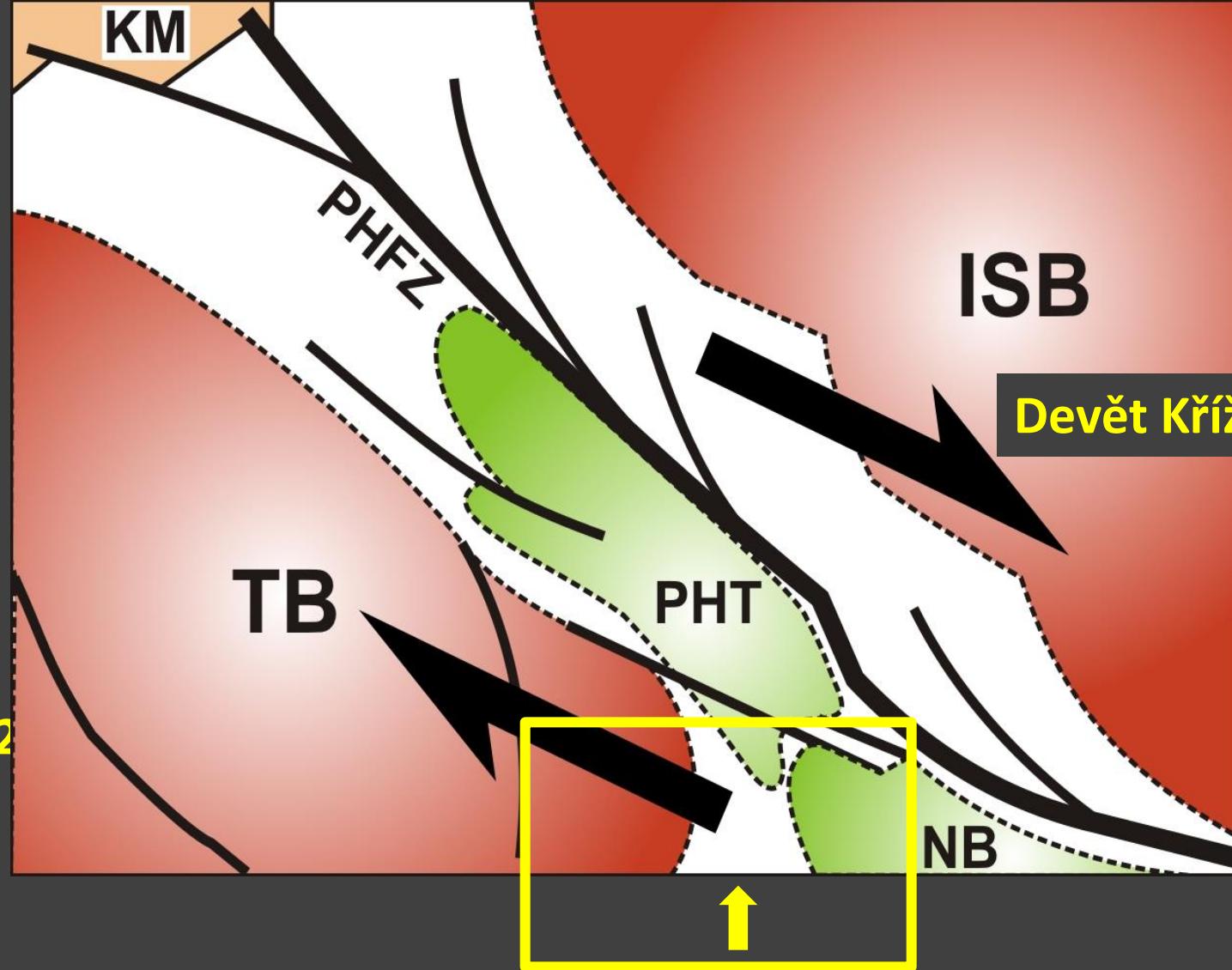


śródsudecka strefa ściania

Intrasudetic Shear Zone (ISZ)



śródsudecka strefa ściania Intrasudetic Shear Zone (ISZ)



KM – Karkonosze Massiff

ISB – Intrasudetic Synclinorium

TB – Trutnov Basin

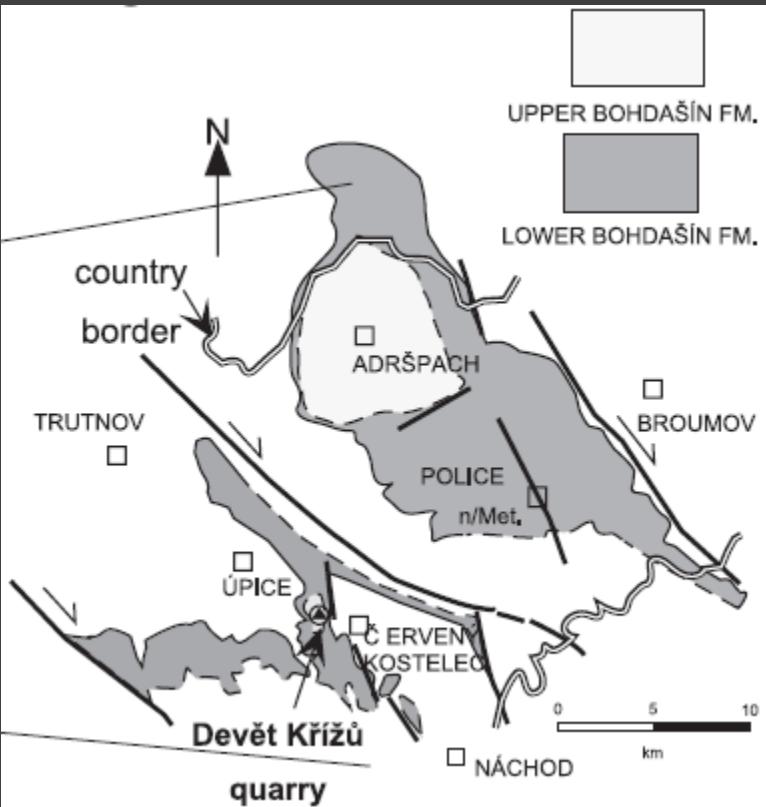
PHT – Hronov Trough

NB – Nachod Basin

PHFZ - Poříčí-Hronov Fault Zone

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Devět Křížů Quarry



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Sedimentary Geology 167 (2004) 17–39

**Sedimentary
Geology**

www.elsevier.com/locate/sedgeo

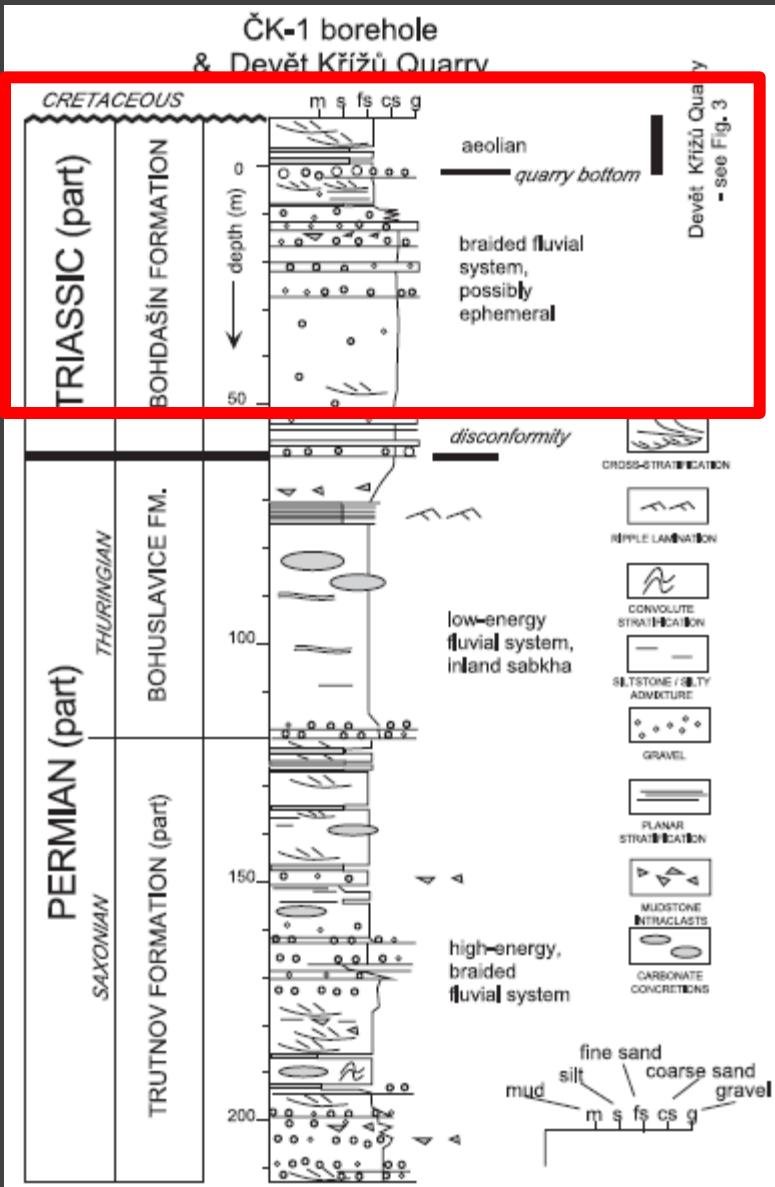
A drying-upward aeolian system of the Bohdašín Formation (Early Triassic), Sudetes of NE Czech Republic: record of seasonality and long-term palaeoclimate change

David Uličný

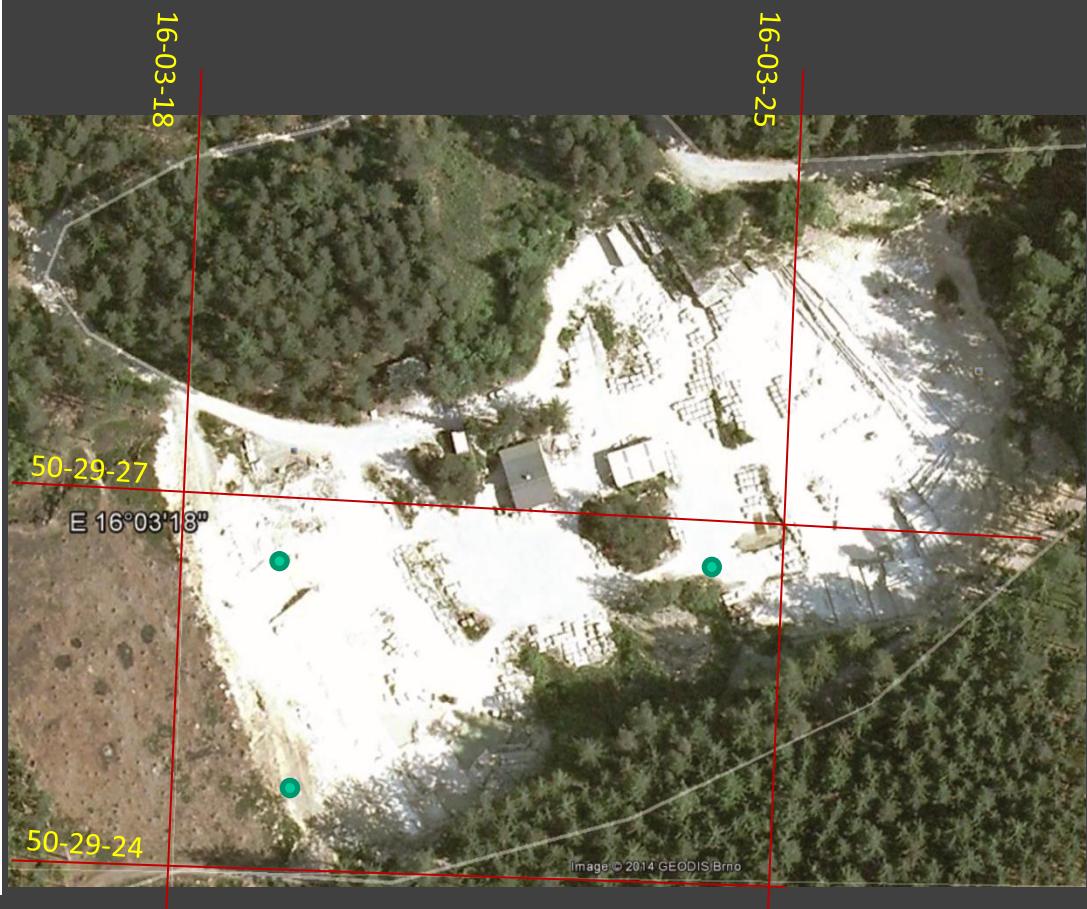
Institute of Geophysics, Academy of Sciences of the Czech Republic Boční II/1401, 141 31 Prague 4, Czech Republic

Uličný (2004)

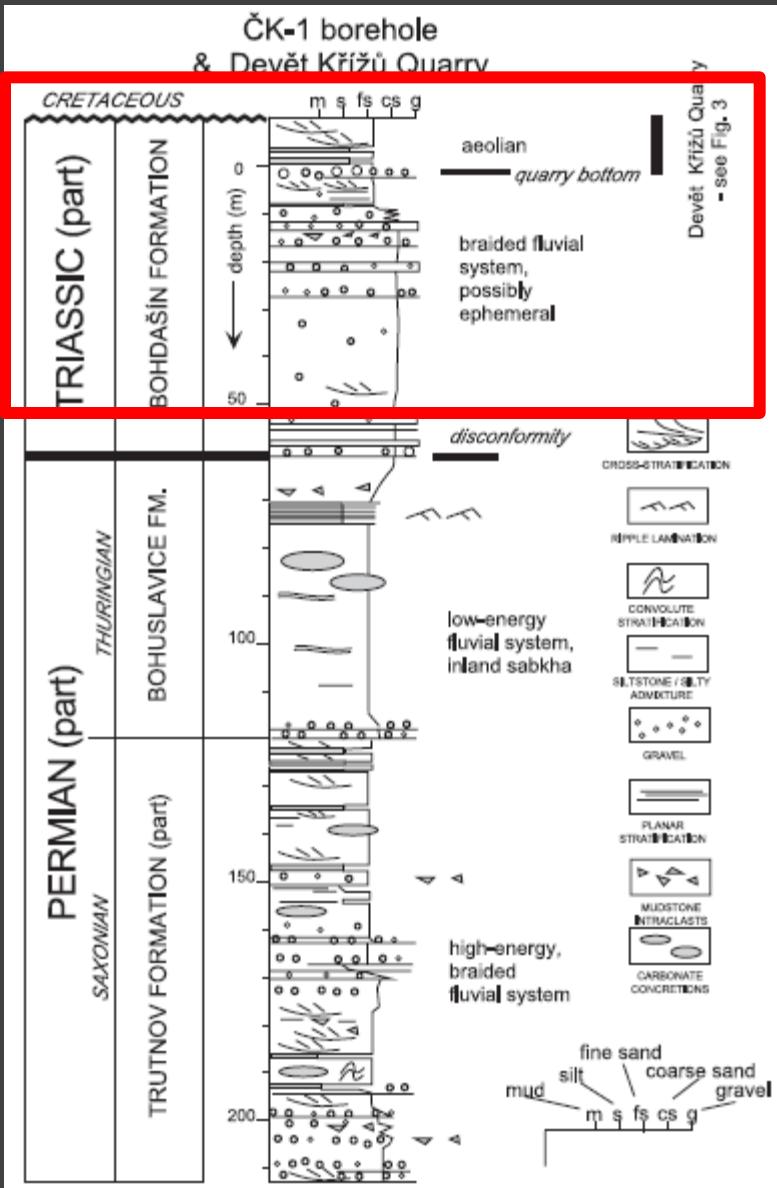
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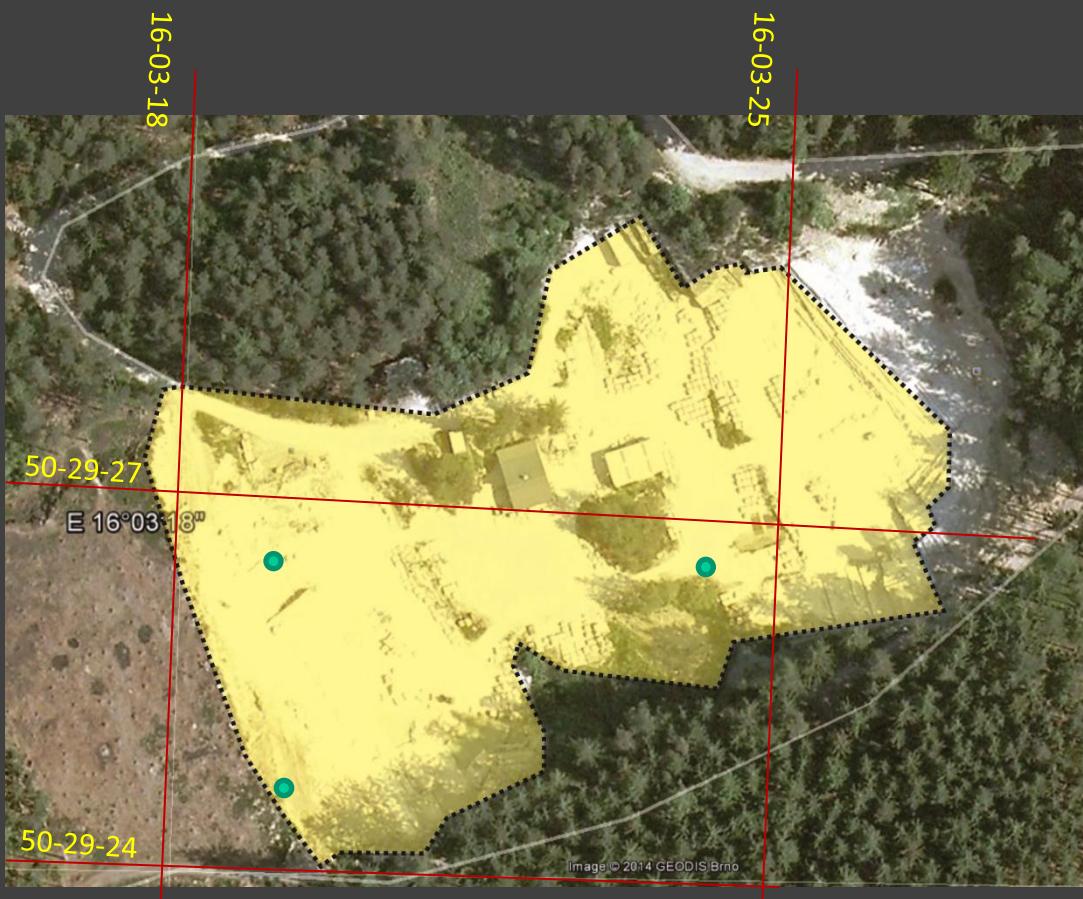
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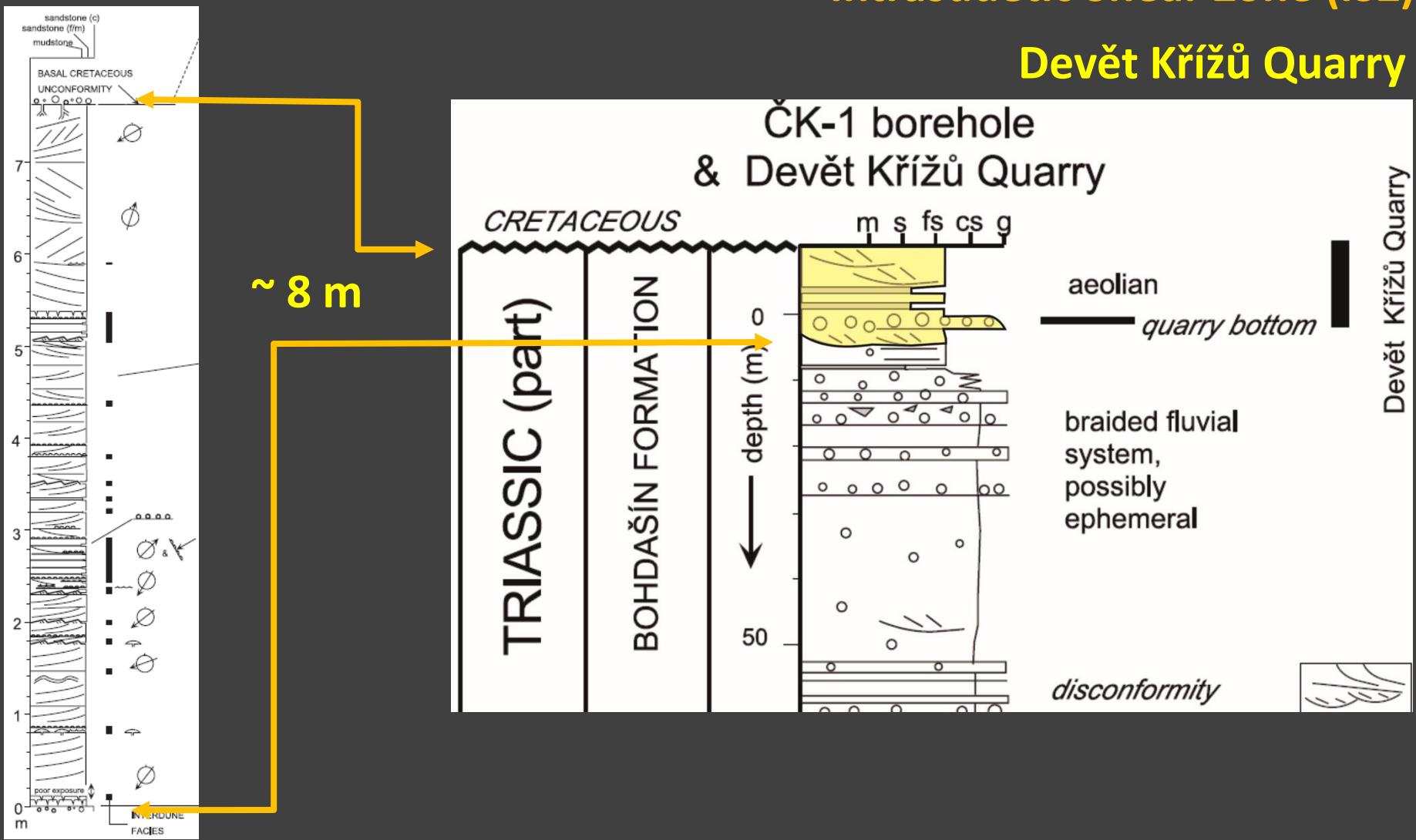
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Devět Křížů Quarry

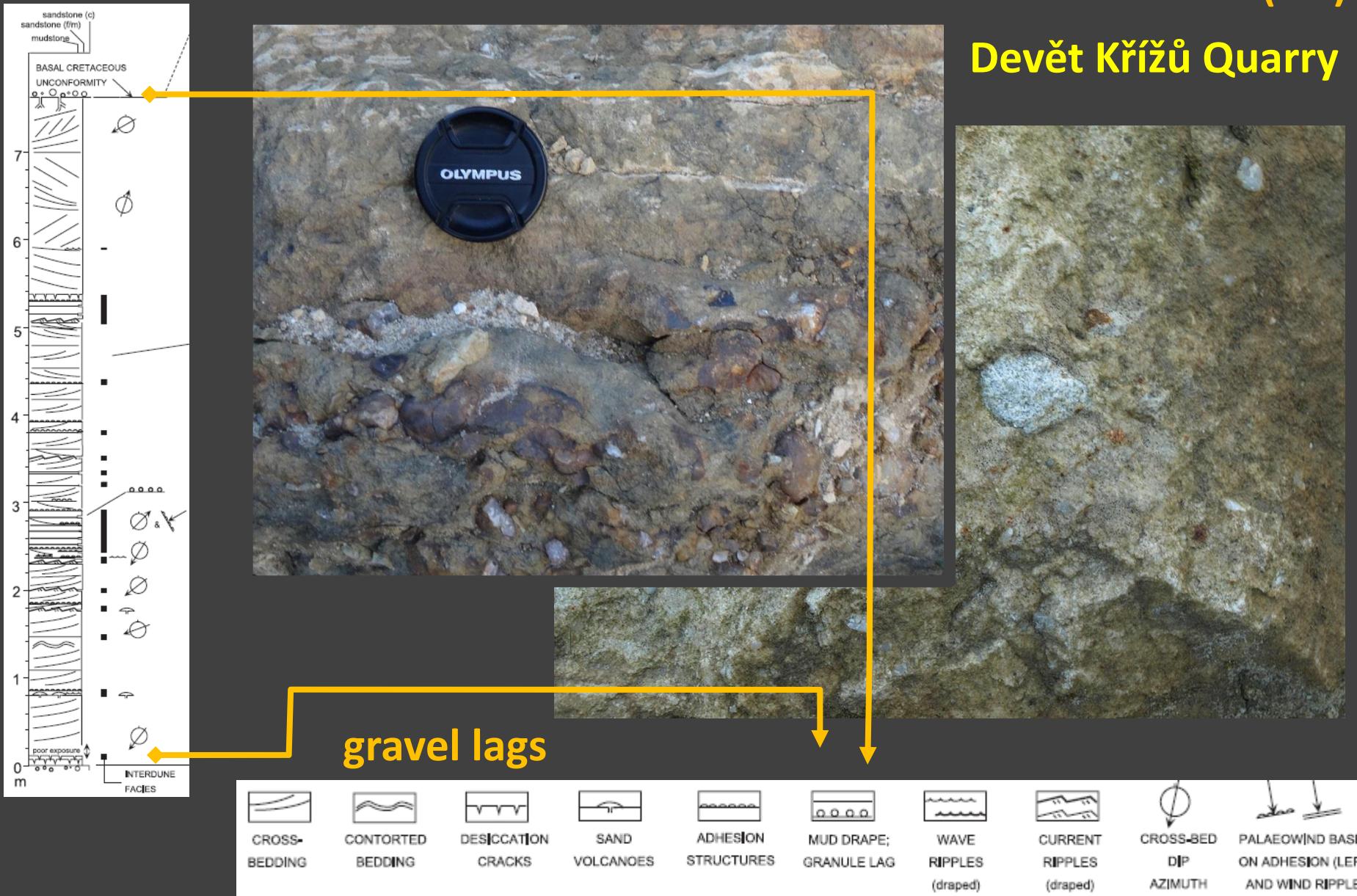
ČK-1 borehole & Devět Křížů Quarry





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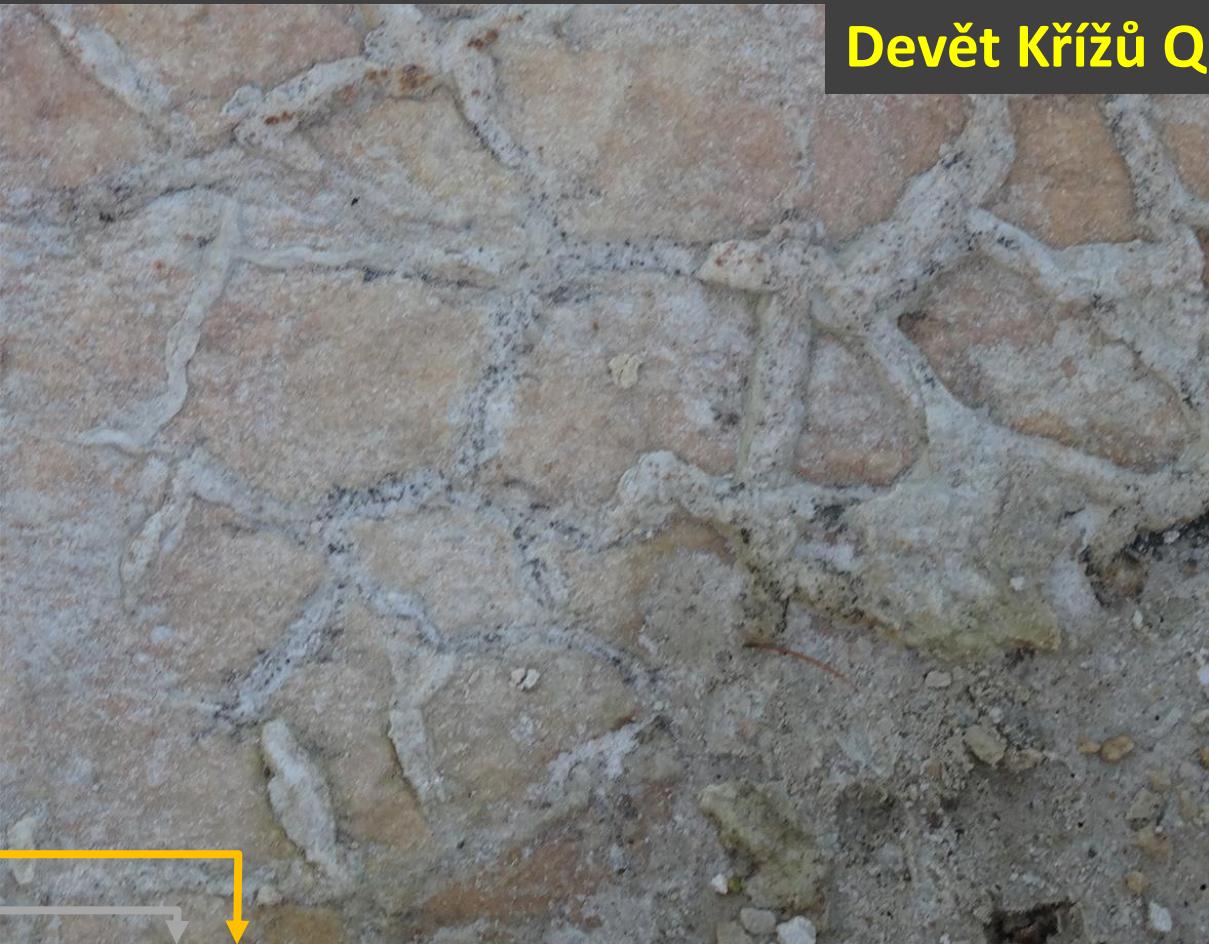
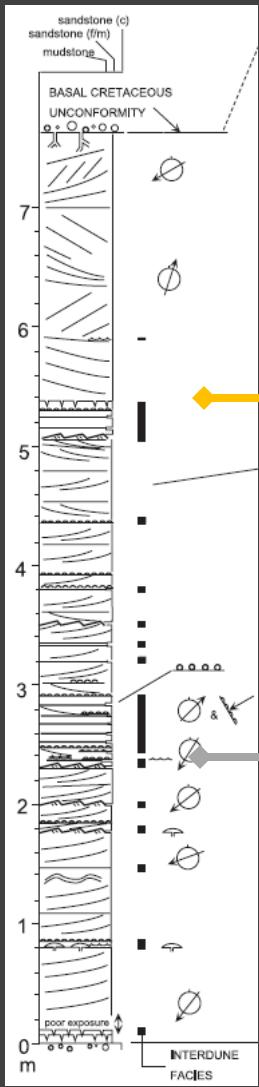
Devět Křížů Quarry



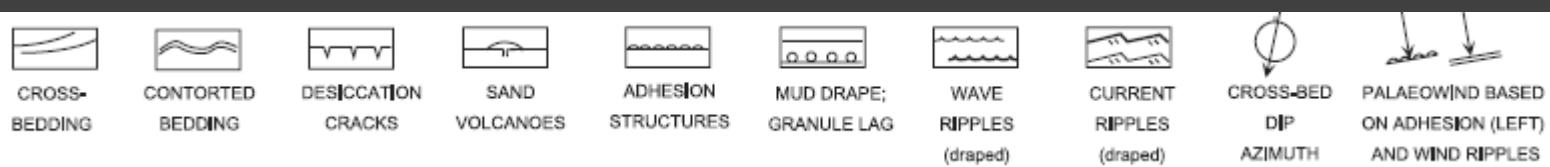


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Devět Křížů Quarry



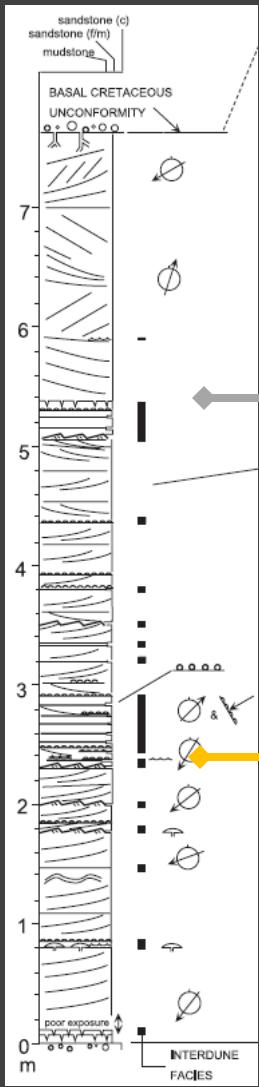
desiccation cracks



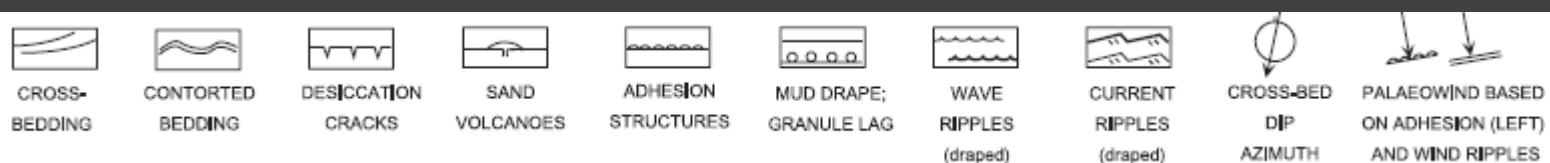


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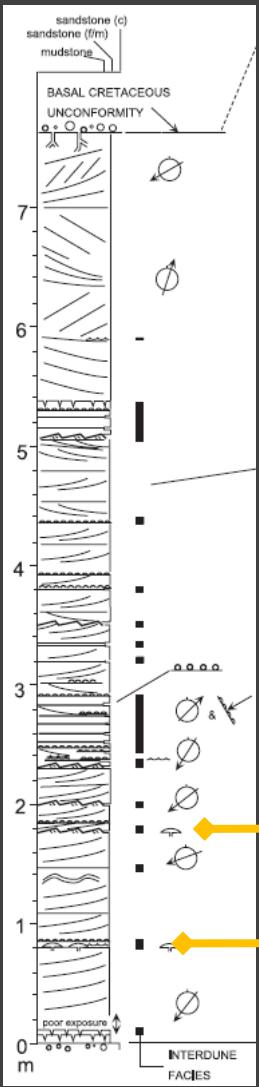
desiccation cracks





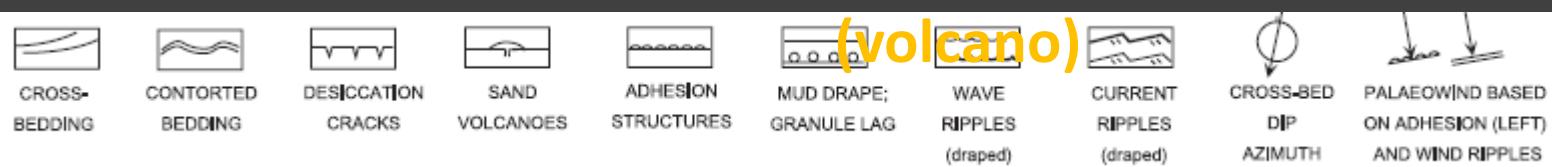
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Devět Křížů Quarry



circular sand blow

(volcano)

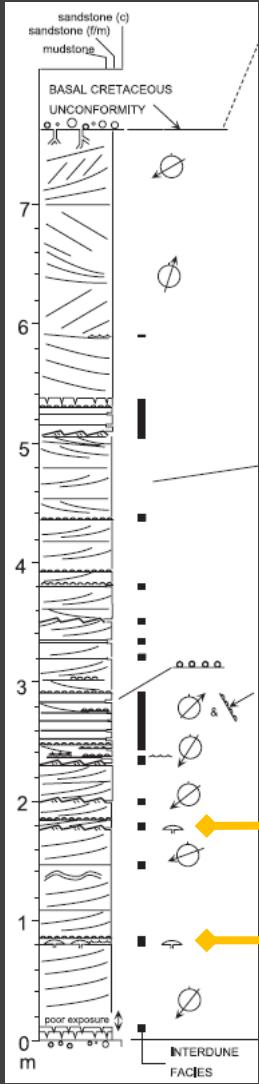




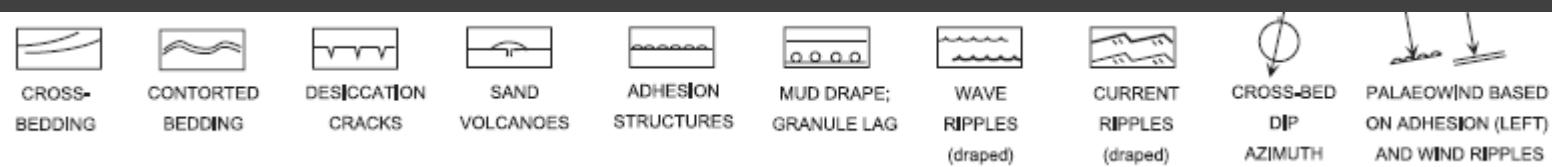
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Intrasudetic Shear Zone (ISZ)

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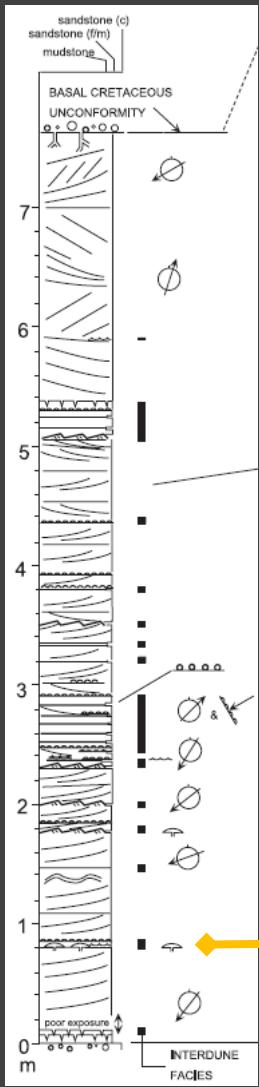
circular sand blows (volcanoes)





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linear sand blows



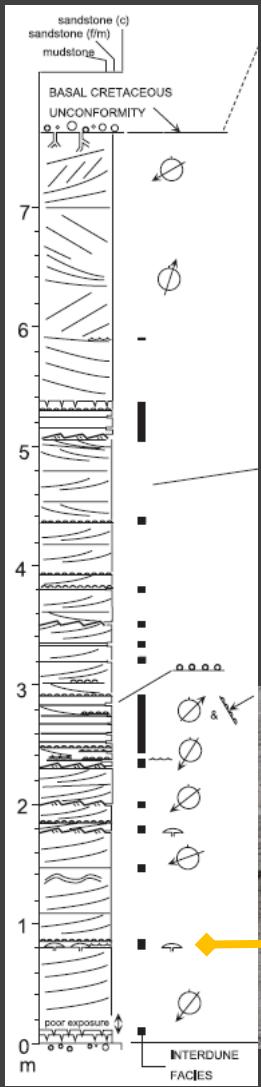
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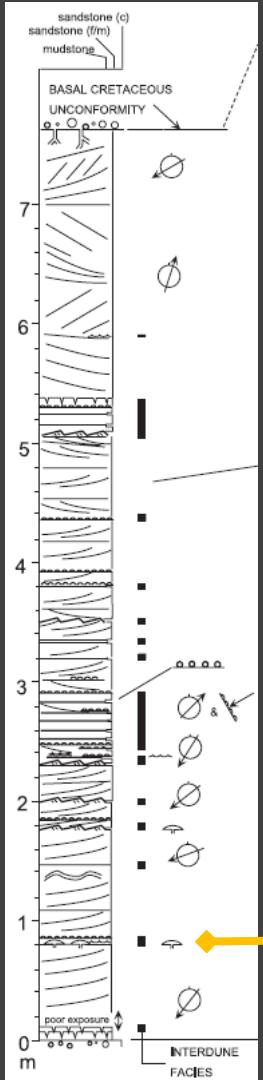
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linear sand blows

N



linear sand blows



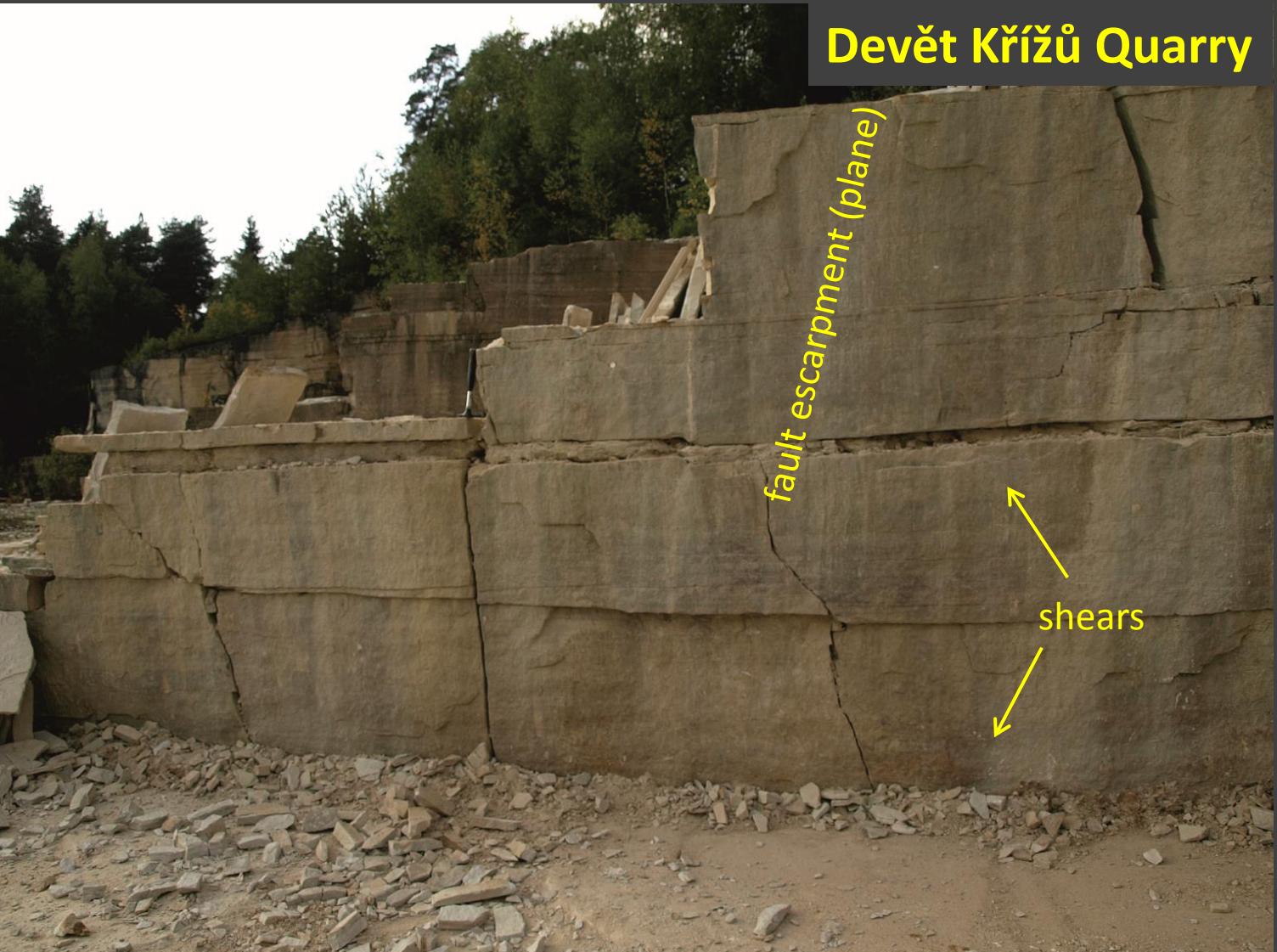
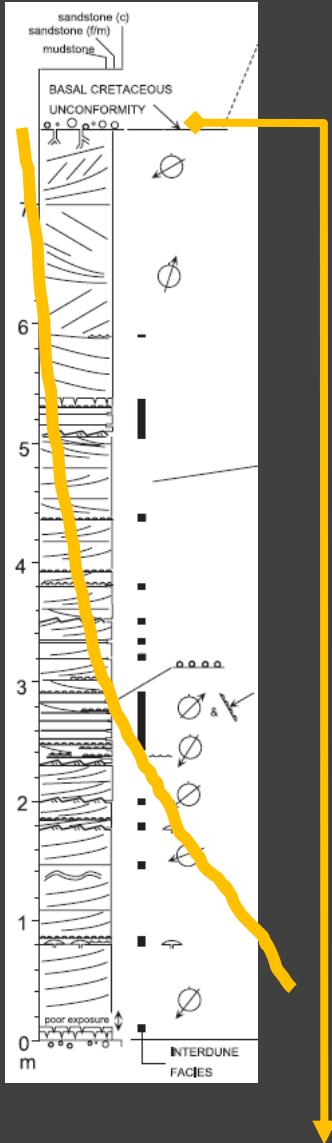
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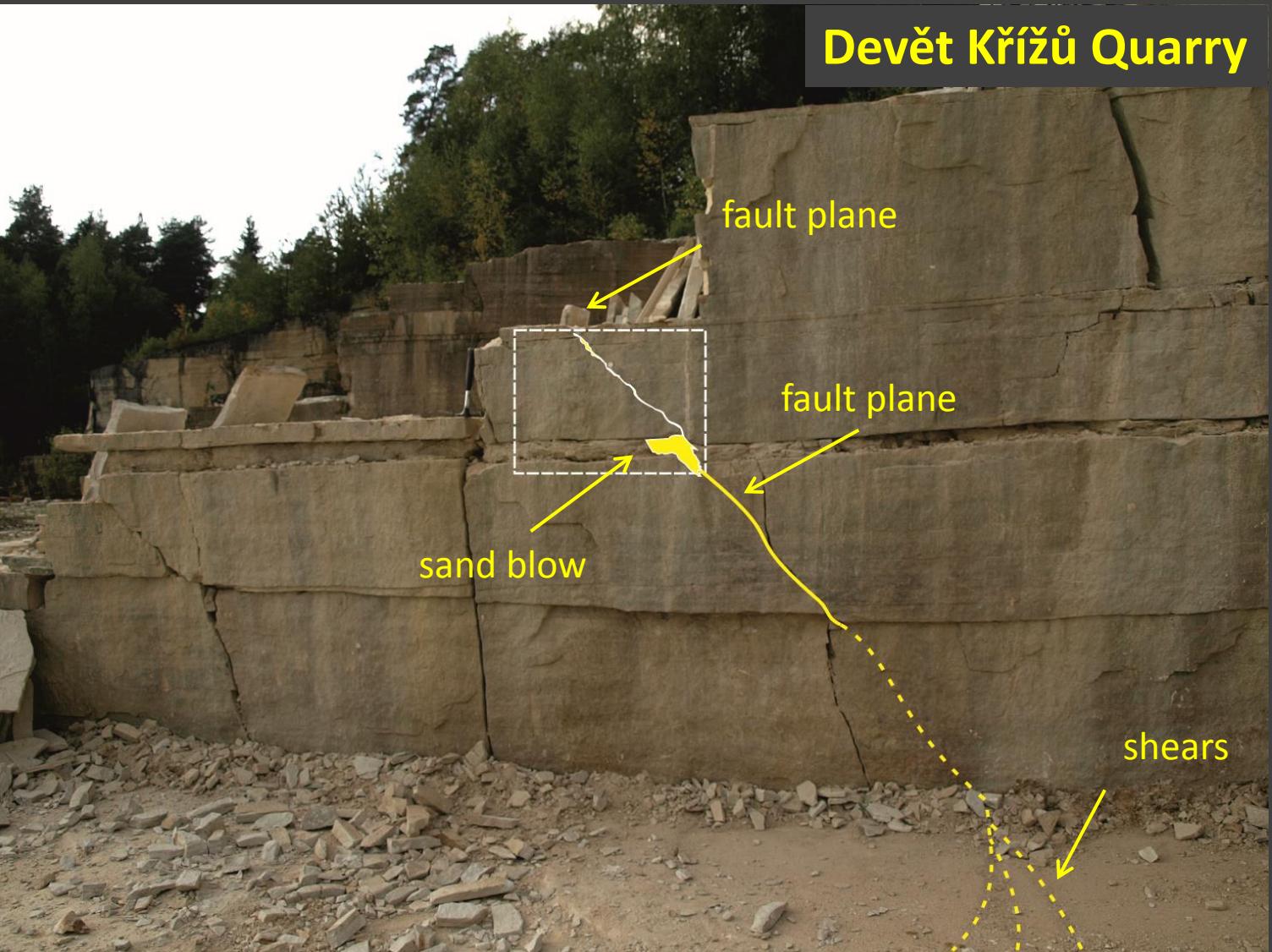
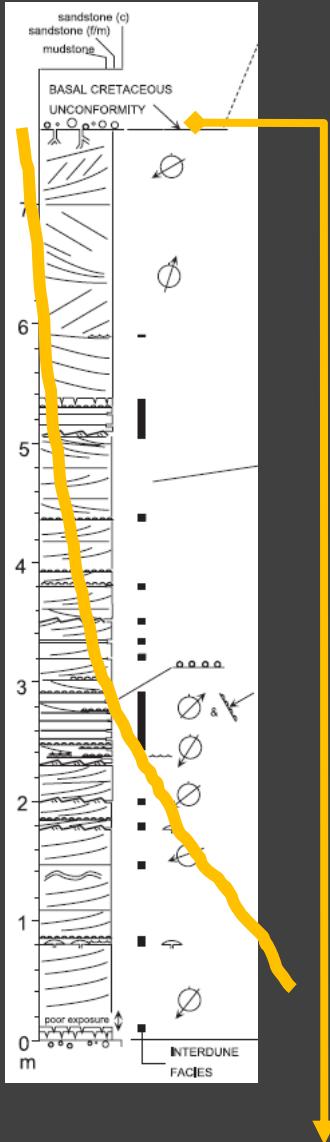
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listric faults, shears and sand injection structures



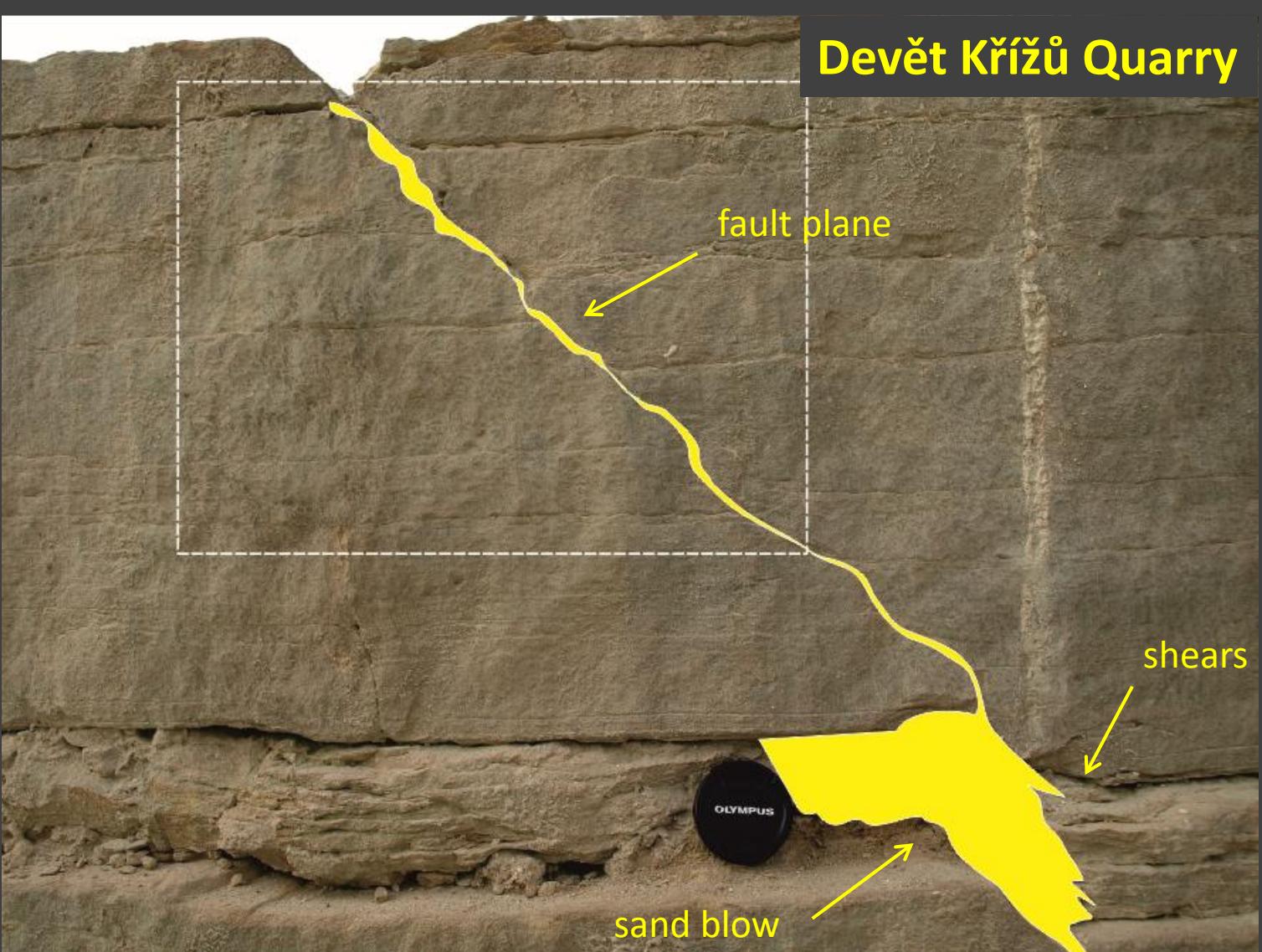
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listric faults, shears and sand injection structures



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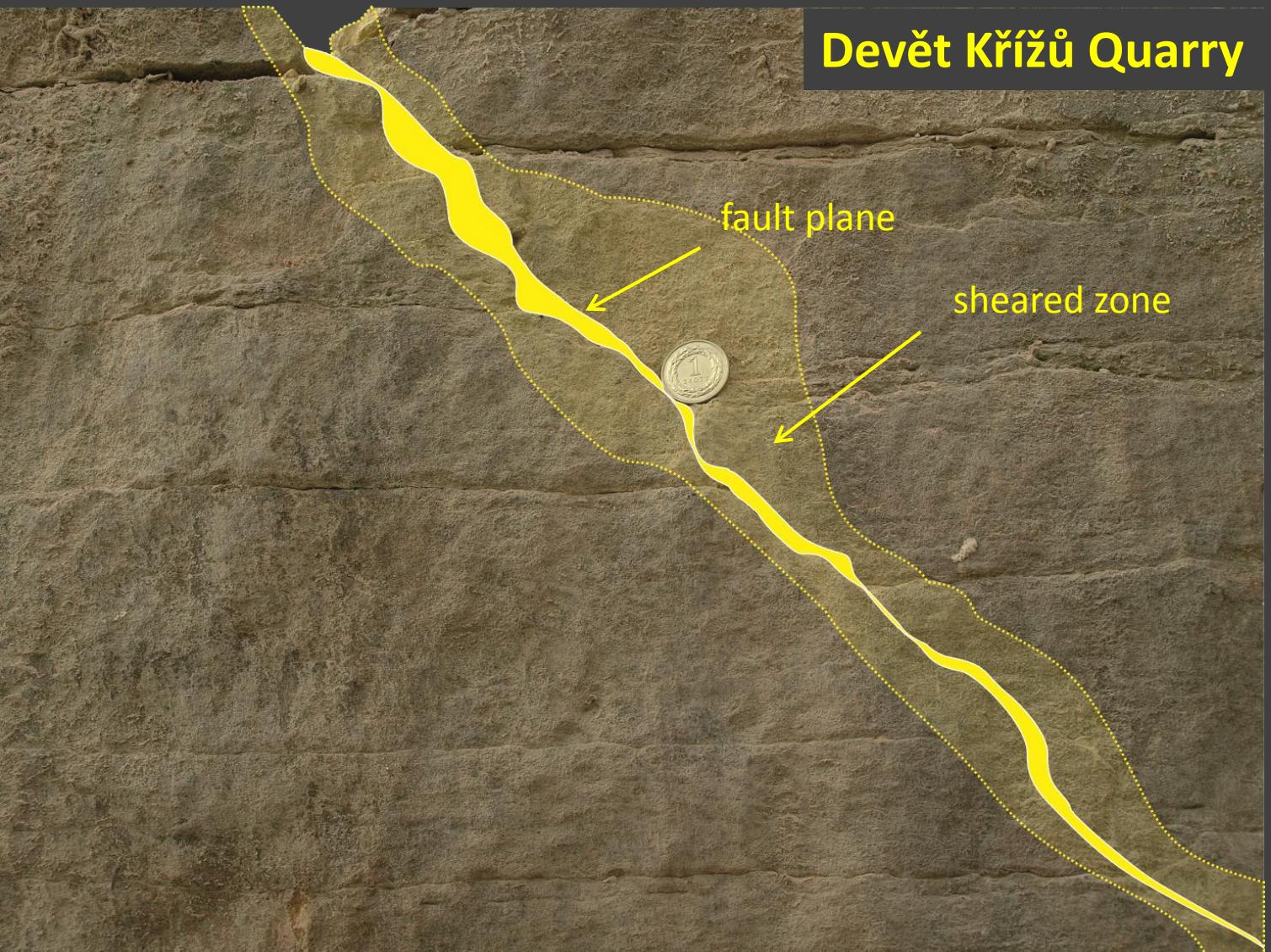
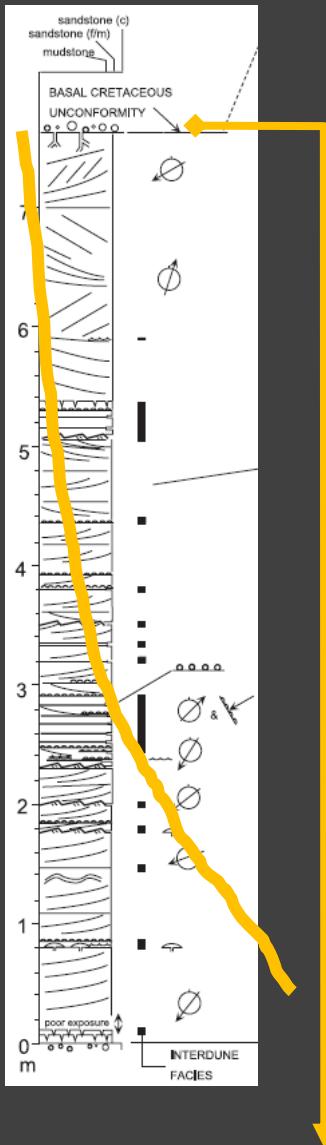


listric faults, shears and sand injection structures



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Devět Křížů Quarry

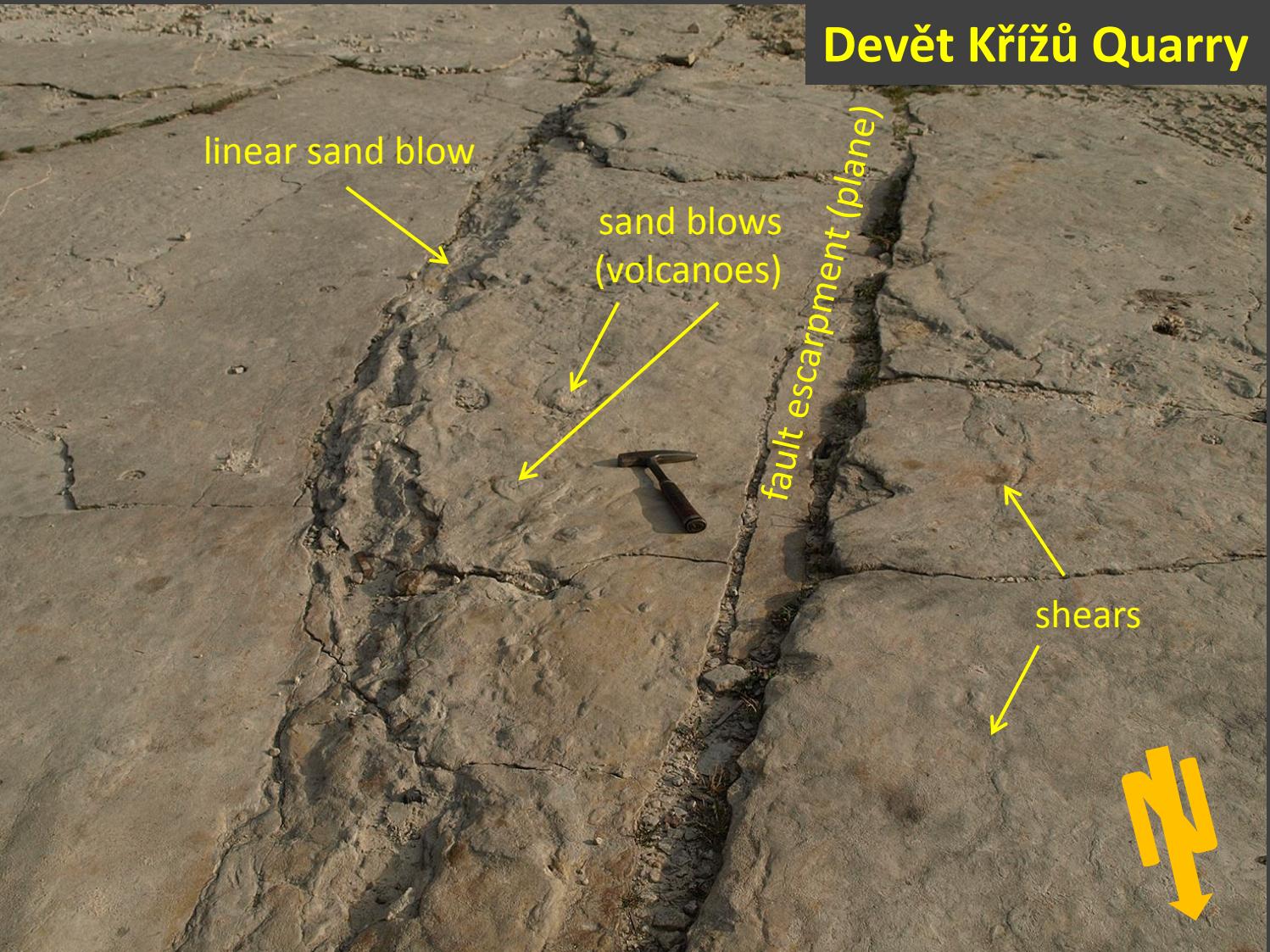
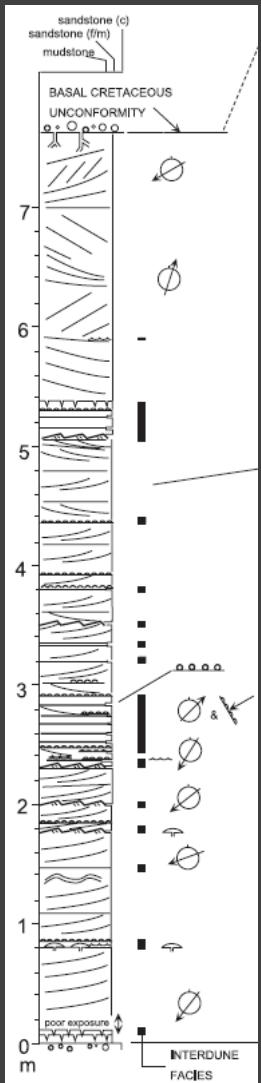


listric faults, shears and sand injection structures



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Devět Křížů Quarry

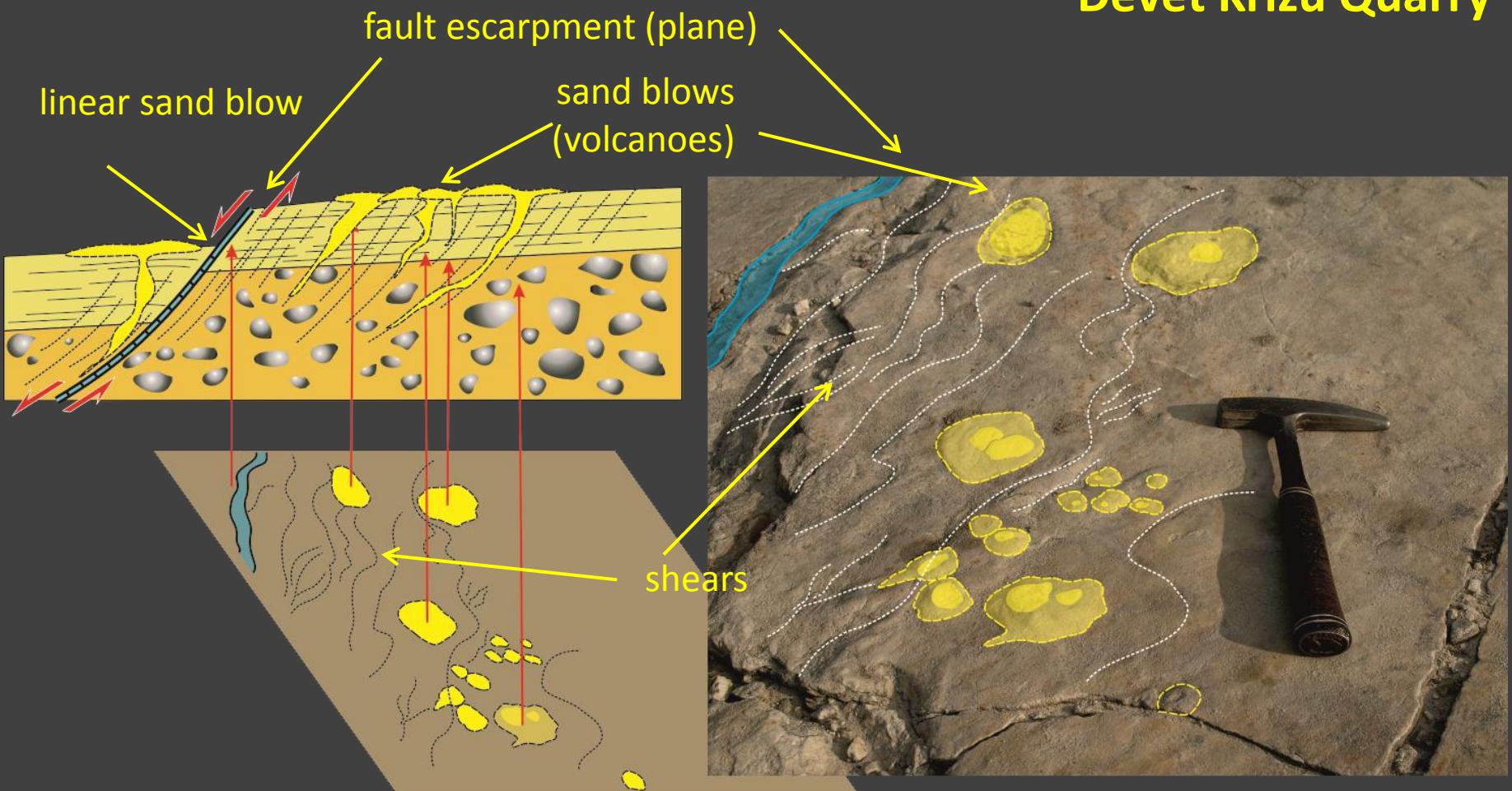


Spatial relation - listric faults, shears and sand injection structures



śródsudecka strefa ścianania Intrasudetic Shear Zone (ISZ)

Devět Křížů Quarry

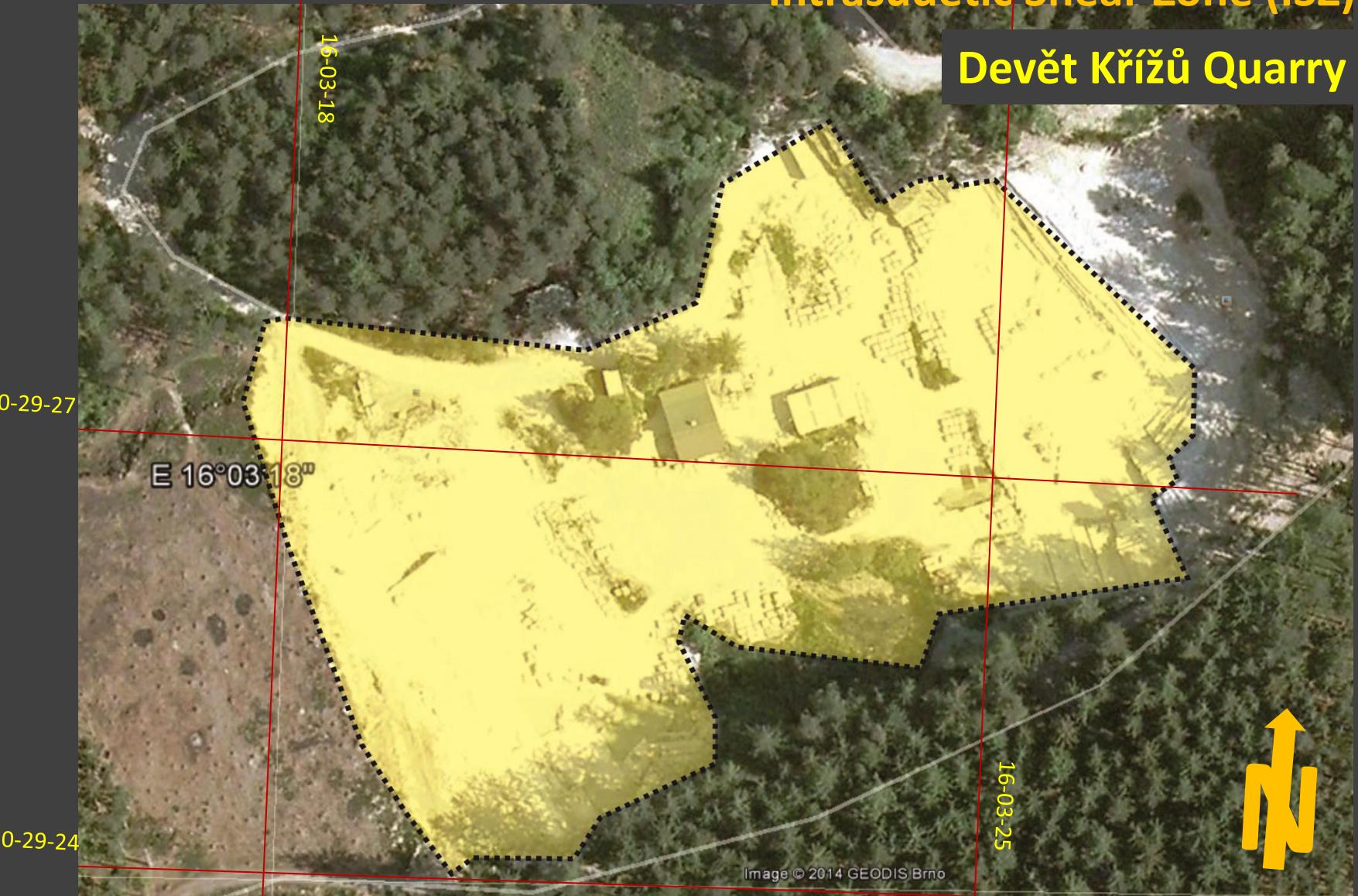


Spatial relation - listric faults, shears and sand injection structures



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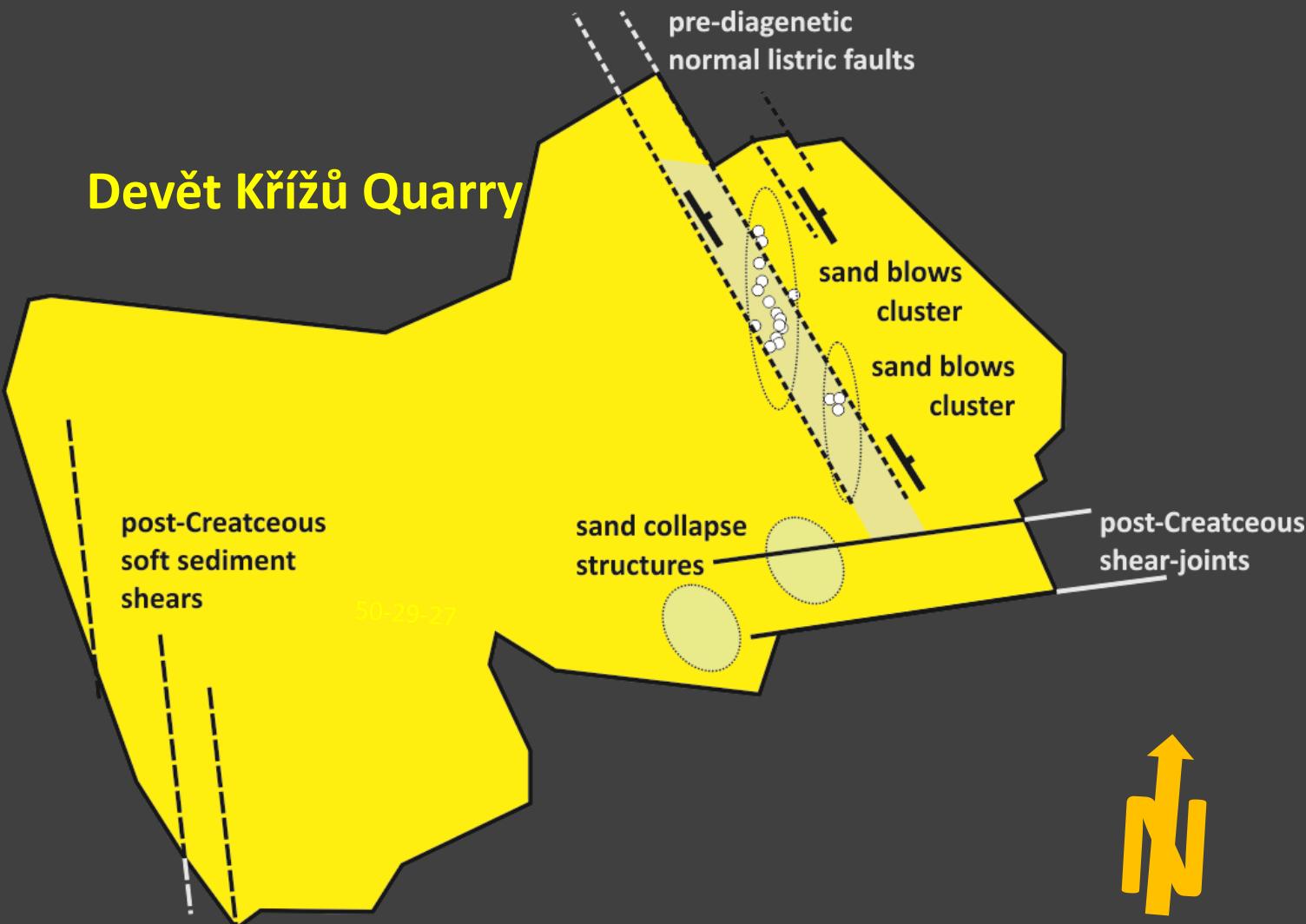
Devět Křížů Quarry



Spatial relation - listric faults, shears and sand injection structures



śródsudecka strefa ścianania Intrasudetic Shear Zone (ISZ)



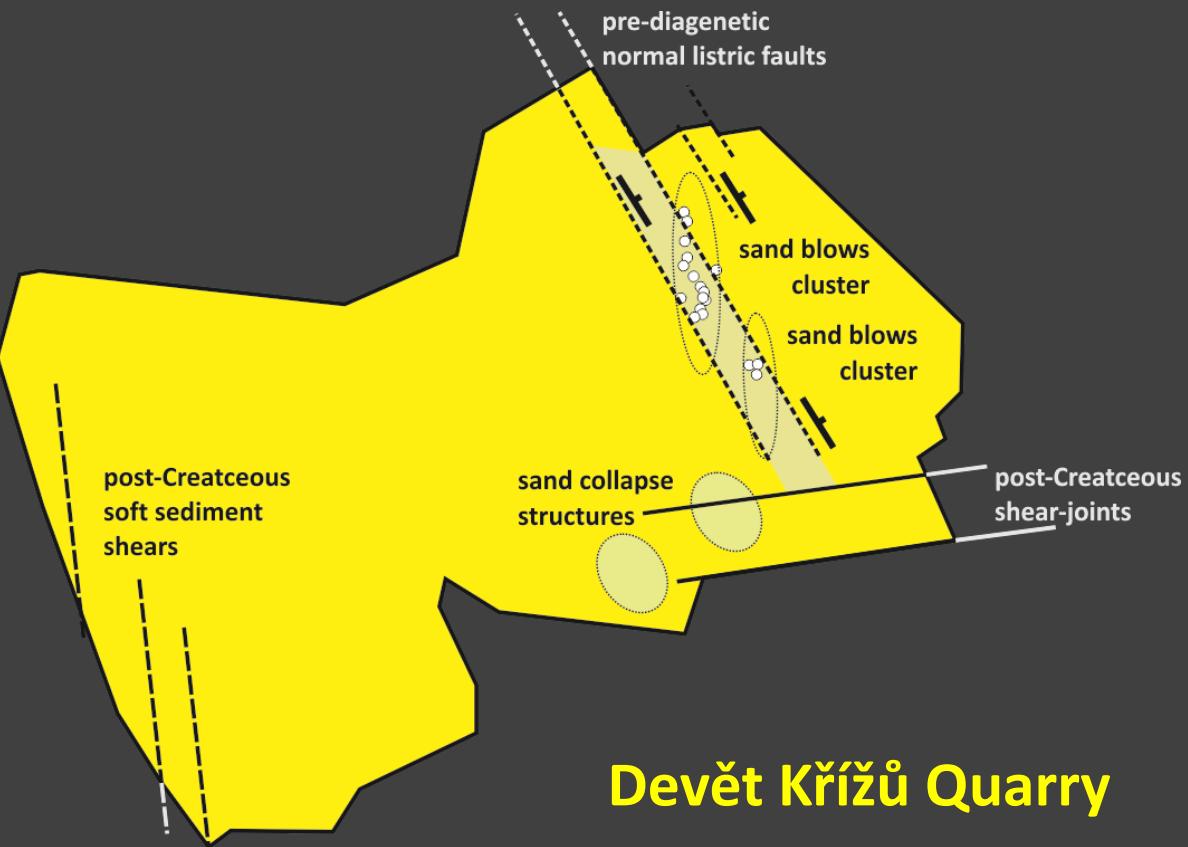
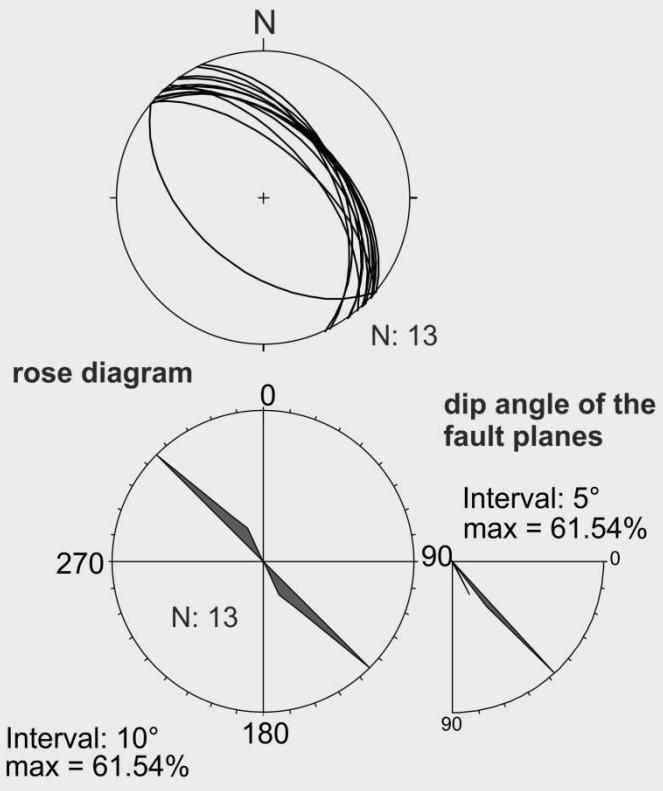
Spatial relation - listric faults, shears and sand injection structures



śródsudecka strefa ścianania

Intrasudetic Shear Zone (ISZ)

pre-diagenetic normal listric faults



Spatial relation - listric faults, shears and sand injection structures

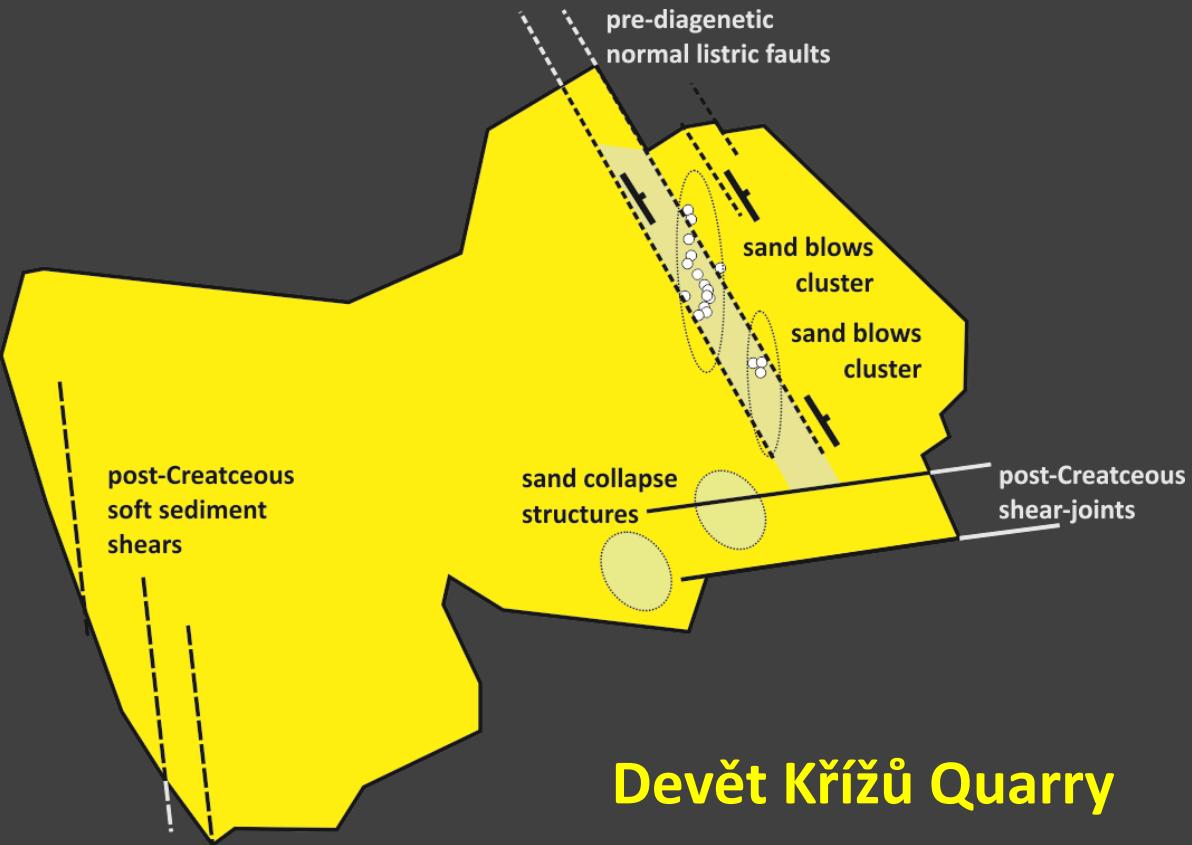
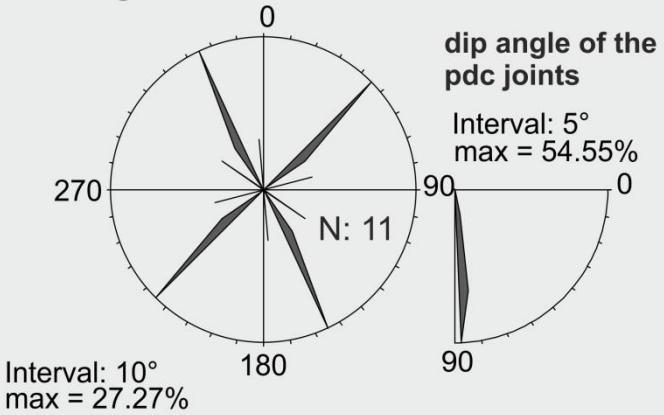


śródsudecka strefa ścianania

Intrasudetic Shear Zone (ISZ)

post-diagenetic joints

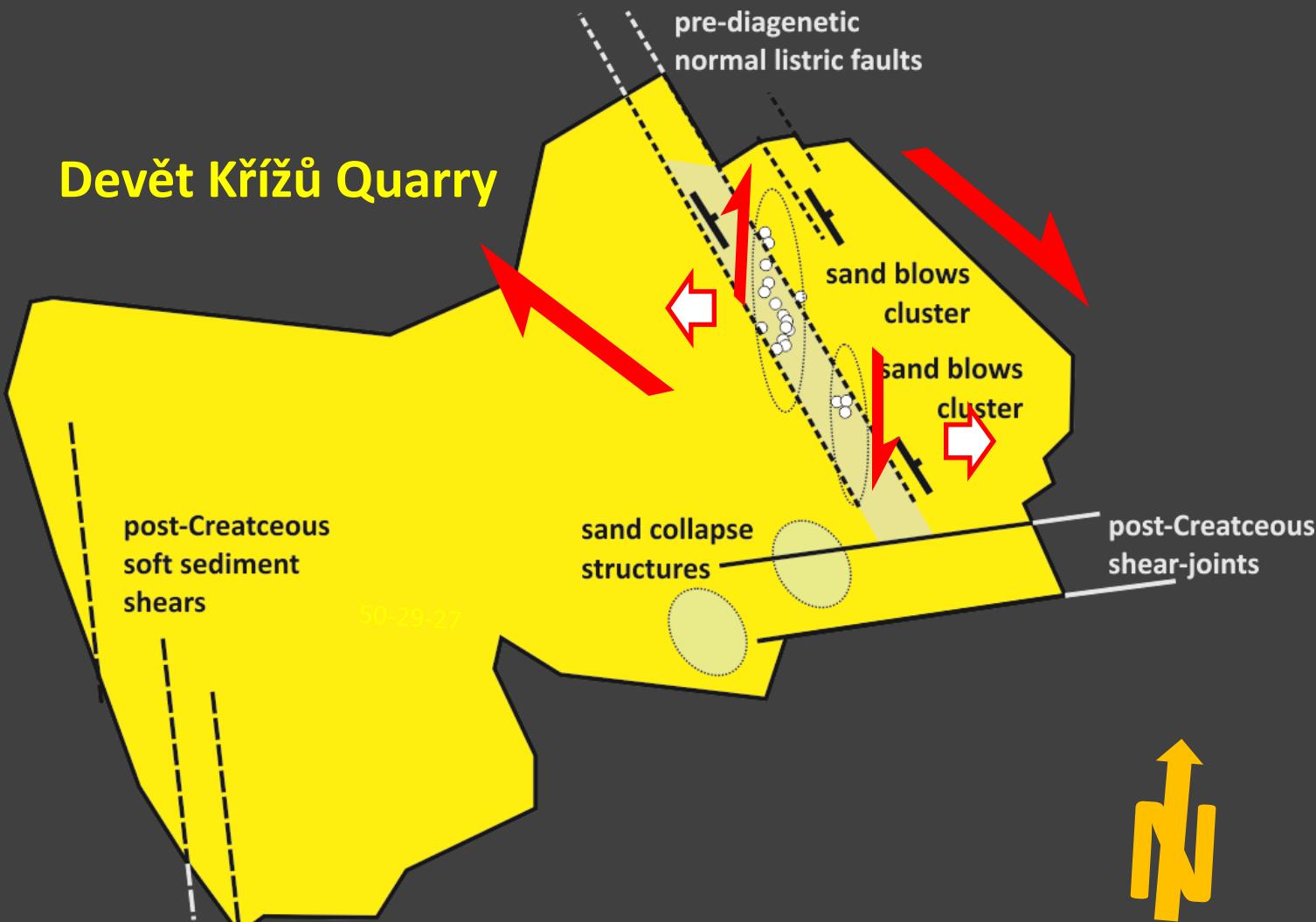
rose diagram



Spatial relation - listric faults, shears and sand injection structures



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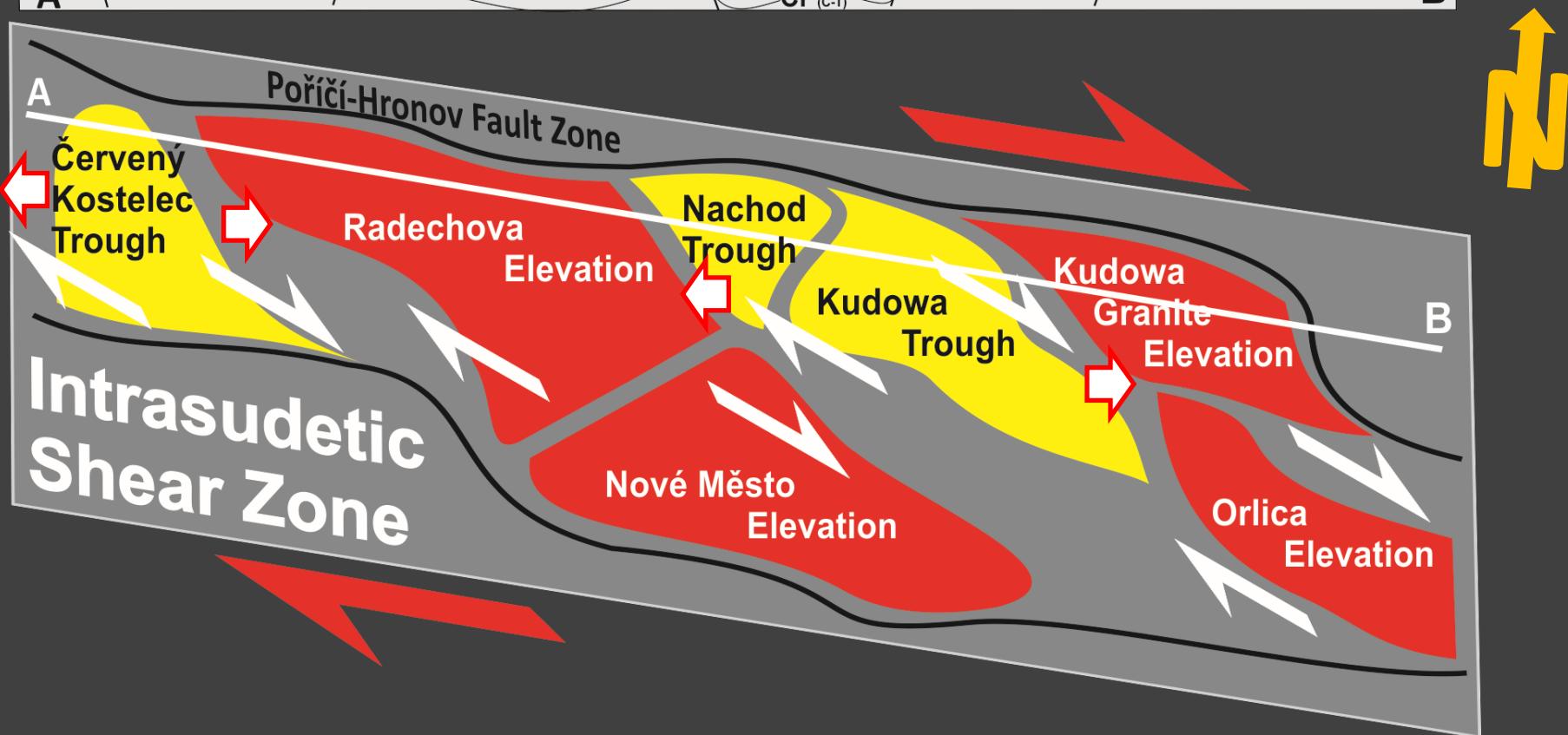
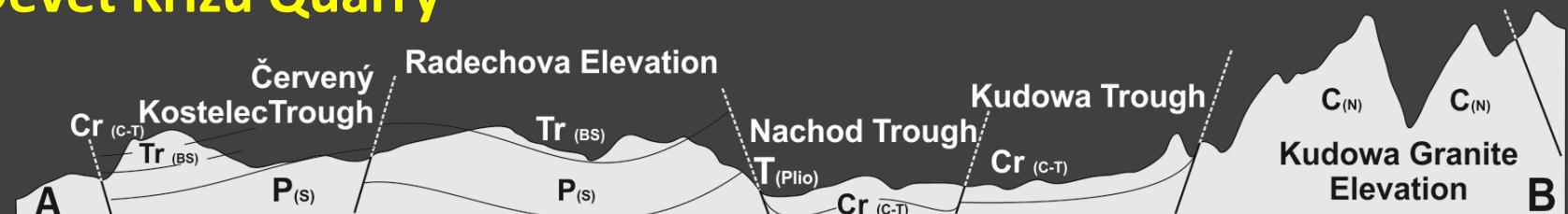
Presumable scheme of the syndepositional (Triassic) kinematics



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Intrasudetic Shear Zone (ISZ)

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Presumable scheme of a dominant kinematics within the ISZ

**WNIOSKI
CONCLUSIONS**

- 1. Area of the Intrasudetic Shear Zone reflects high seismic activity throughout early Triassic and late Cretaceous (till now???)**

- 2. Presumable kinematic scheme appears to be very stable during long time evolution the Intrasudetic Shear Zone (till now???)**

Thank you very much for attention!