CZECH REPUBLIC
DEVELOPMENT COOPERATION

Other volcaniclastic rocks

- Resedimented pyroclastics
- Epiclastics

Resedimented pyroclastics

- Fragmentation due to explosive volcanic eruption (we can identify original volcanic origin of clasts)
- Loose pyroclastic material can be easily reworked
- Transported by common agents (water, wind) – not deposited by volcanic processes
- Sedimentary textures, channels
- Polygenetic processes

Resedimented pyroclastics

- Large plains on volcano foot-hills
- Frequent interbedding and lateral transitions to common pyroclastics
- Structure, sorting, grading correspond to transport media and process


SIGMA

Epiclastics

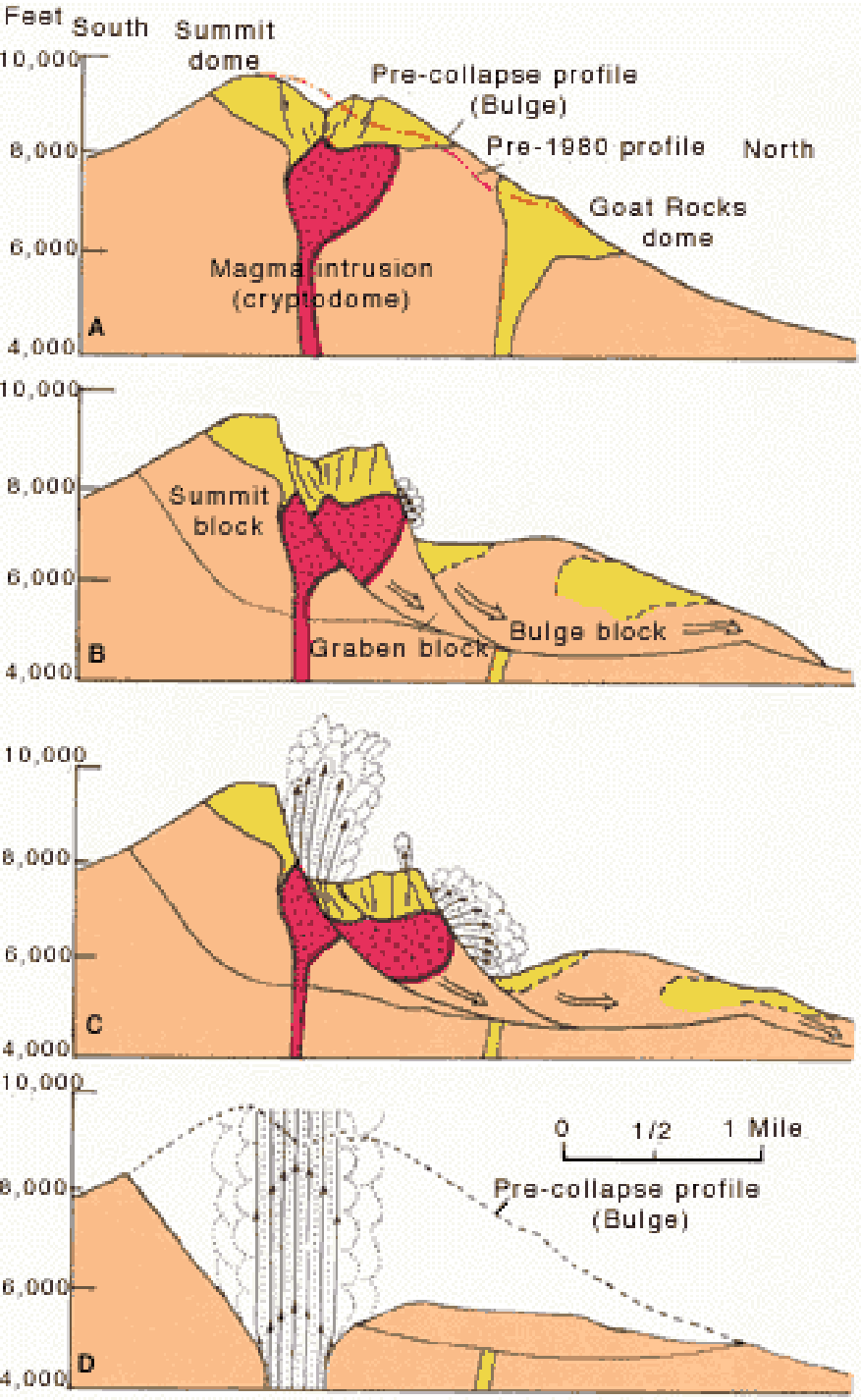
- Fragmentation due to weathering (mechanical) and erosion
- Transported by common agents (gravity, water, wind) – not deposited by volcanic processes
- Sedimentary textures, rounding of clasts
- Large plains on volcano foot-hills
- Frequent interbedding and lateral transitions to pyroclastics
- Specific coarse-grained types: lahars, debris avalanche deposits

Lahar

- Transport: mass-flow, grain-flow or hyperconcentrated
- Carries boulders larger than its thickness
- Triggered: volcanic or seismic activity, heavy rains, saturation of pyroclastic flow with watre

USGS

- Unsorted
- Matrix-supported, rarely clast-supported
- According to water saturation (cohesion of matrix) may be chaotic, normal- or reverse graded
- Rounded to sub-rounded clasts

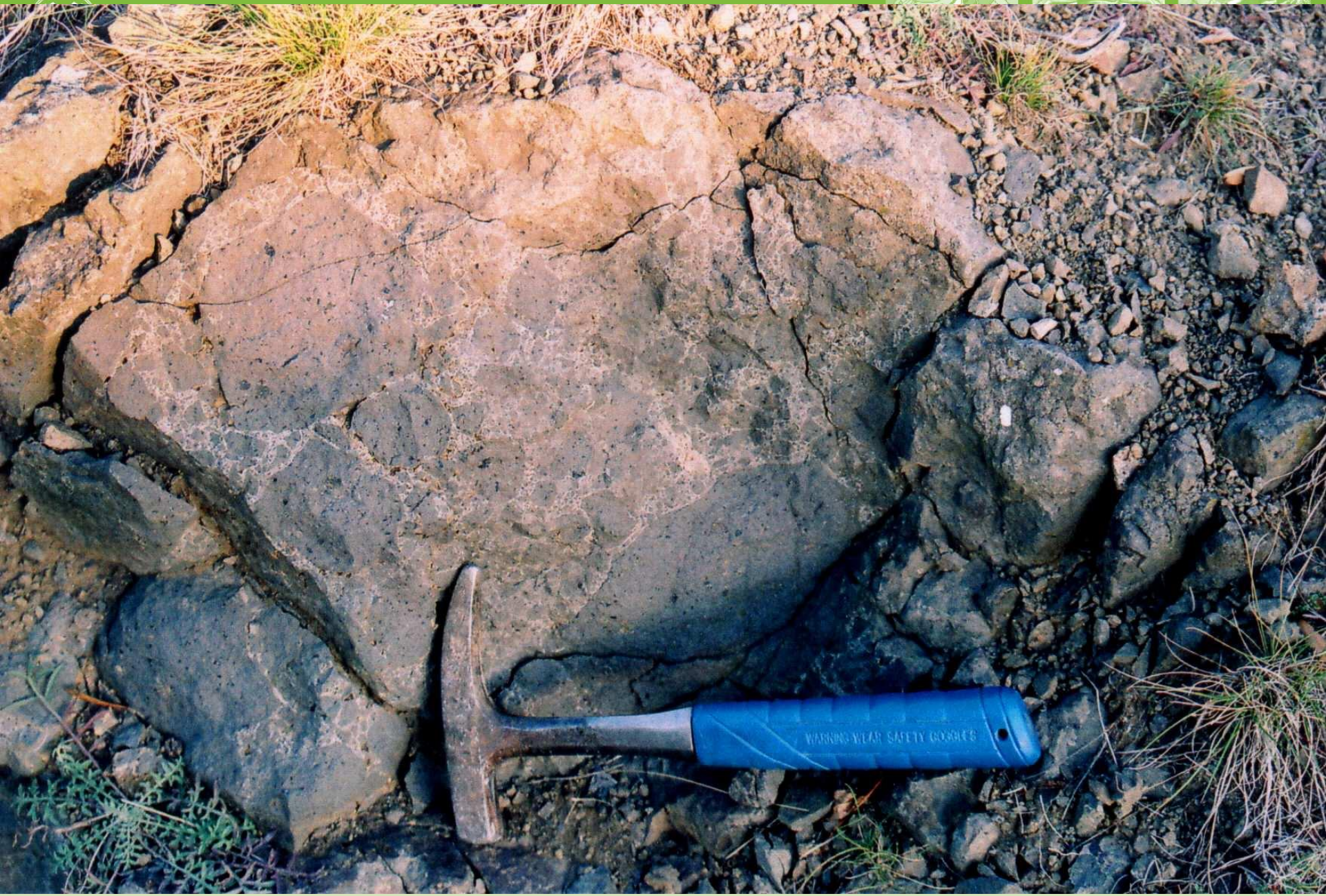


Debris avalanche

- Failure of a big part or entire volcanic edifice
- Does not move as a granular flow, but as a plug-flow
- Hummocky relief in deposition area

Debris avalanche

- Unsorted
- Matrix-supprted
- Mega-blocks (X0 m)
- Shattering of blocks (subgrains do not migrate) – jig-saw fit structure
- Stretching of plastic clasts


WARNING WEAR SAFETY GOGGLES

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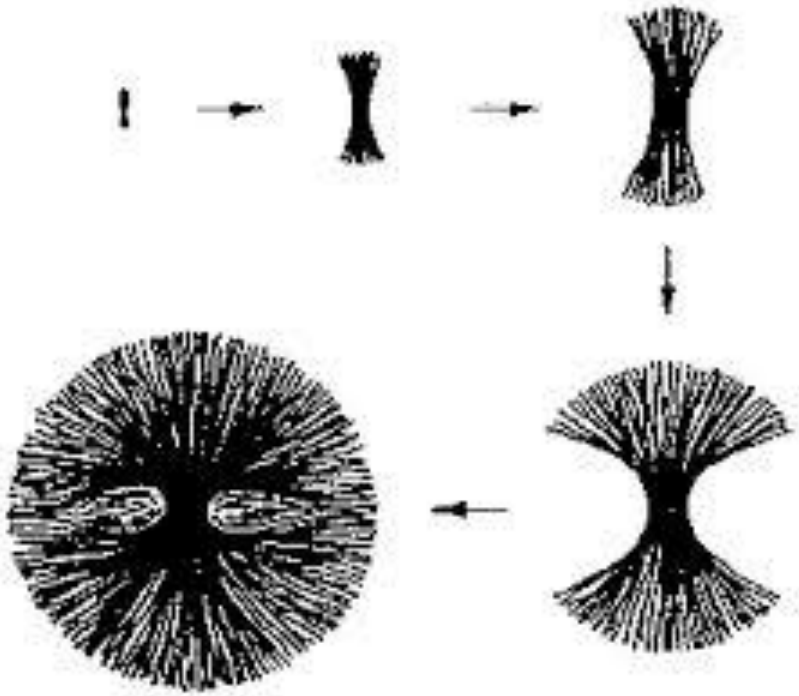
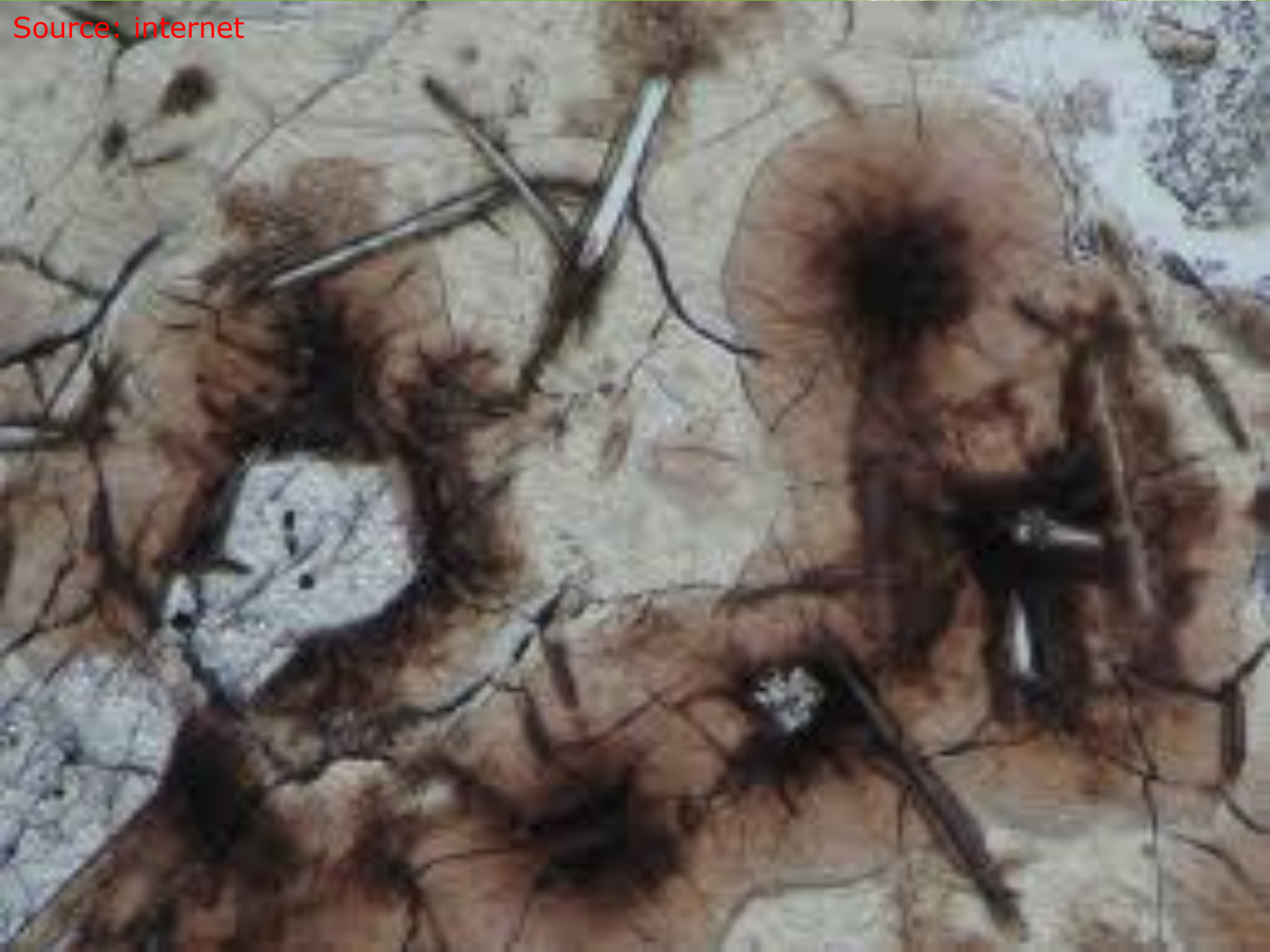
Spherulites

- High temperature devitrification of volcanic glass
- Start from crystallization nuclei (inhomogeneity)
- Radial aggregates of feldspar and quartz (rarely also pyroxenes)



Source: internet


Source: internet

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Estwing
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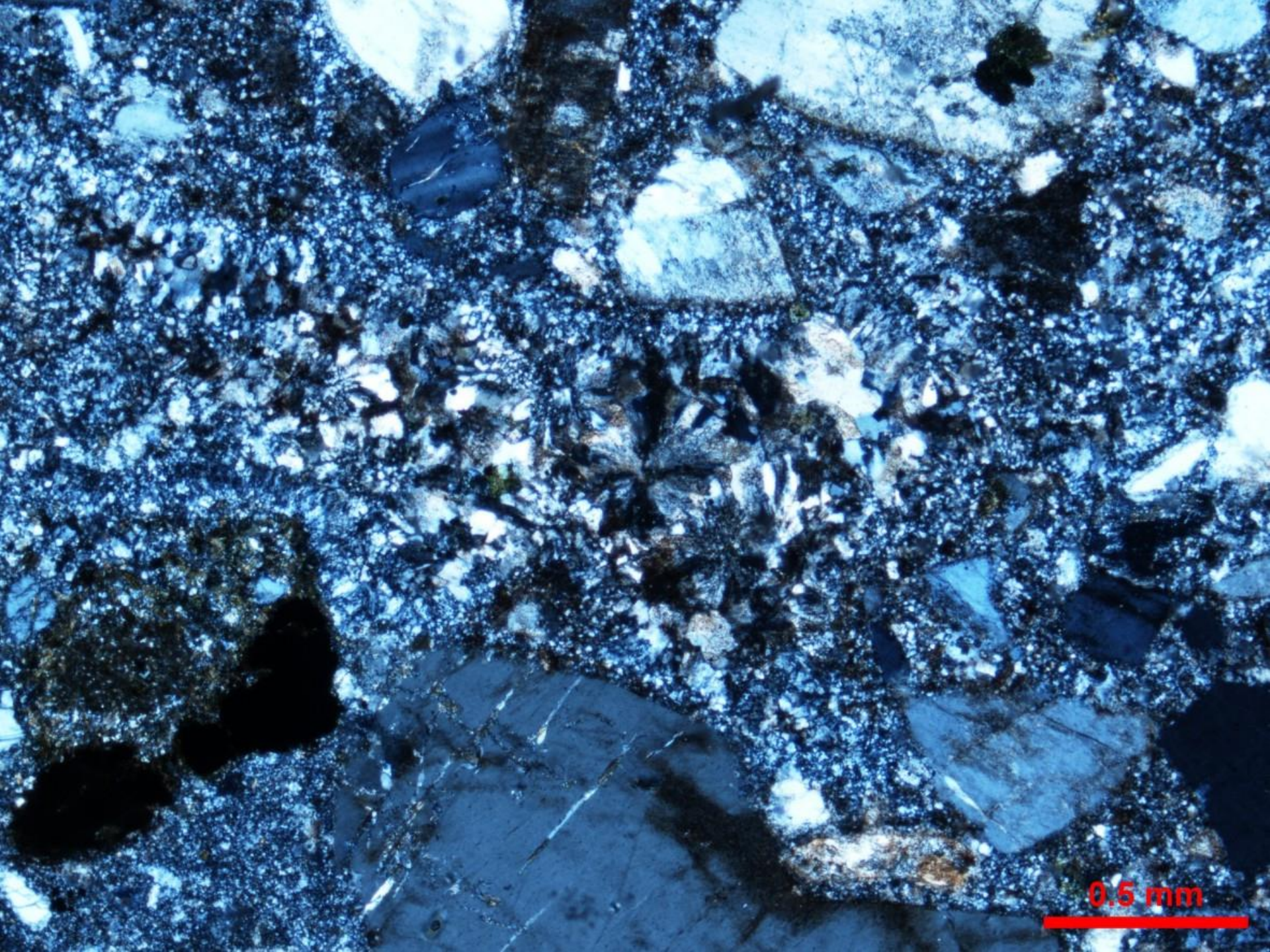
0.5 mm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