

# Radiolarite Investigations I

## Macroscopical properties

### Austria



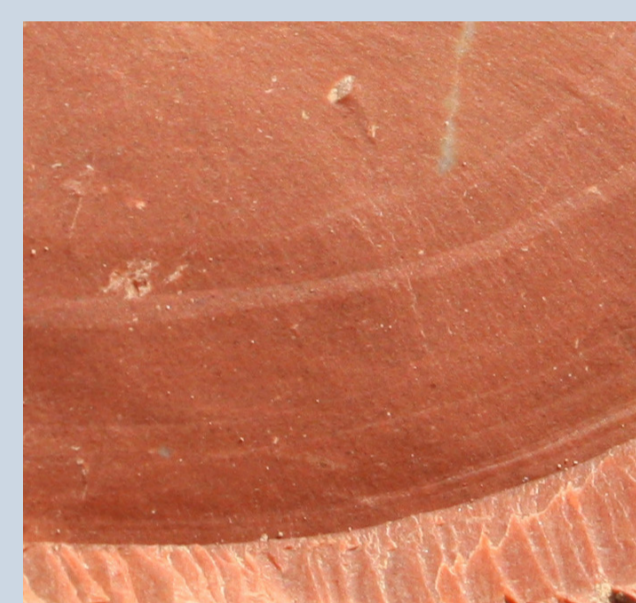
Raw material range:  
Feuerstein  
Photo: G. Trnka

#### Feuerstein



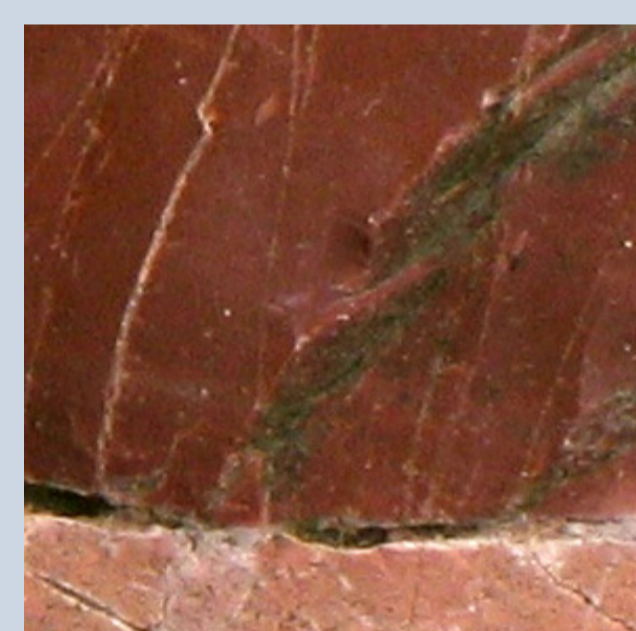
Vorarlberg, Allgäuer Alps, Kleinwalsertal, Gemstetal.  
Ruhpolding Layers.  
Under – Middle Jurassic Beckenfazies.  
Auburn – reddish brown – moss green.  
Very fine grained.  
Very homogenous, partly heavily cleft, shiny gloss on fractured surface, often various colour varieties in one piece.

#### Grubalacke



Tyrol, Rofan Mountains.  
Ruhpolding Layers.  
Under - Middle Jurassic Beckenfazies.  
Brick-red.  
Very fine grained.  
Characteristic colour, very homogenous, dull on the fractured surface.

#### Vienna Mauer



Vienna, 23rd District.  
St. Veit Klippen Belt (part of the Sulzer Klippen Belt, Flyschzone).  
Upper Jurassic (Thiton) – Lower Cretaceous (Neokom).  
Red – auburn; greenish – yellowish, grey – brown.  
Fine grained.  
Highly variable in colour, often heavily cleft.

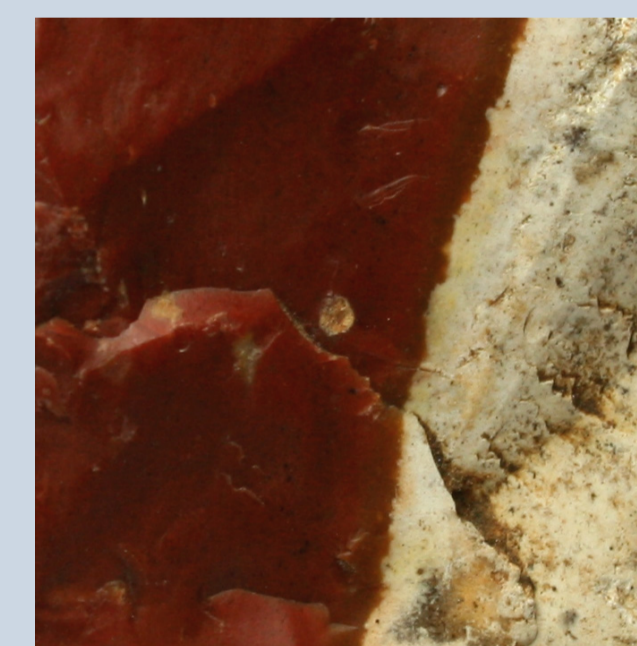


Raw material range:  
Vienna Mauer  
Photo: G. Trnka

Stone tool provenance studies are a challenging undertaking. A multi – layer approach promises to lead to best results. The radiolarite–trilogy illustrates three steps of analytical approaches. When combined they afford the characterization of the raw material known as “radiolarite”. Selected samples from the VLI (Vienna Lithothek) have been analysed and the results are basis for further discussion.

### Hungary

#### Szentgál - Tüzköveshegy



Veszprém County, Central Transdanubia.  
Bakony Mountains.  
Middle Jurassic, Dogger, Bathonian – Callovian.  
Shiny red, white spots and entire rock parts, typically near the cortex.  
Very fine grained.  
Characteristic colour range, very homogenous, often contains visible traces of Mg.

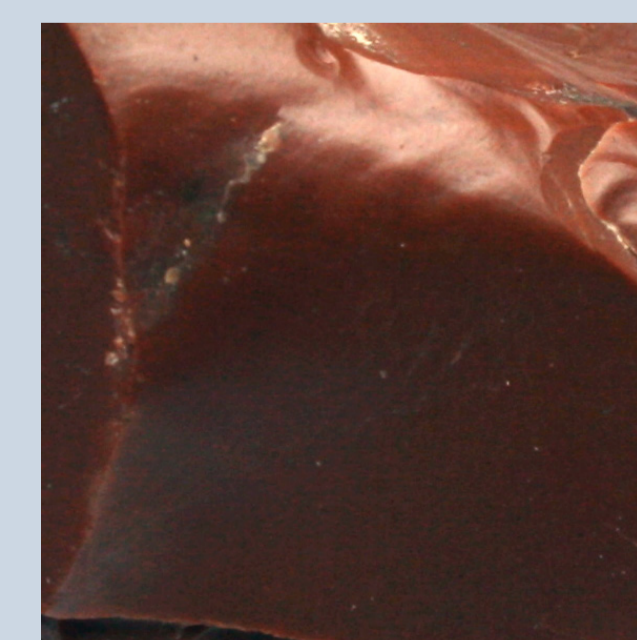


Raw  
Szentgál - Tüzköveshegy  
Photo: G. Trnka

Characteristic macroscopical features allow a first rough classification of prehistorically used lithic raw materials. Especially radiolarites show a wide range of variation. The knowledge and standardized description of their macroscopical properties forms the first step in the multi layer approach to analysis of these sources in an archaeological context. Colour, knapping features and texture are basic patterns to be investigated.

### Slovakia

#### Vlára Bolešov



Bolešov – Tri kopce, okr. Ilava, kraj Trenčín, White Carpathians.  
Czorsztyn unit, Klippen Belt.  
Middle – upper Jurassic, Dogger – Malm, Callovian – Kimmeridgian.  
Red – auburn, greenish – grey, yellowish.  
Very fine grained.  
Very homogenous, glossy on the fractured surface.

Raw material range:  
Vlára Bolešov  
Photo: G. Trnka

