Sample ID and provenance

Sample ID: SP49_CdC

Lithology: Chert

Collection: LusoLit

Outcrop: Casal da Colina

Unit/facies: Middle Jurassic

Thinsection: No

Macroscopic description

- COLOR

Color distribution is Mix diffuse. Main colors are gray (10YR 6/1), light gray (10YR 7/1) and white (10YR 8/1).

- FABRIC

Luster is Medium to Dull and the translucency is Opaque. The feel is semi-smooth to coarse and the grain is fine. The structure is Uneven with a Gradual variation. Closer to the cortex the chert is lighter and coarser, without visible patterns, and at the center of the nodule the chert is darker, smoother and with visible patterns. Patterns are Shaded and Spots. The spots are Speckling (1-49%) with an Uneven distribution.

- INCLUSIONS AND FOSSIL CONTENT

Oxide minerals are common. Fossils are common, but very small and white, without any identifiable structure.

- CORTEX

Cortex is from an Outcrop type, Thin to Medium thickness and with a Gradual transition, blending into the lighter chert. The cortex itself seems to be white/cream. In some areas the transition is Sharp. When tested with dilute hydrochloric acid (HCL 10%), the reaction was nonexistent, hinting that the parent rock may not have any carbonate mineral content.

- QUALITY

The fracture type is Conchoidal and there are Fractures. The knapping quality ranges from Good to Medium, depending on the area of the nodule.

❖ OBSERVATION

The nodule is patinated with a yellow/brown patina. On the inside of the nodule the patina is light, and in the cortex area, the patina is very thick and dark.

Outcrop description

- OUTCROP CHARACTERISTICS

Type of outcrop: Secondary

Visibility: Bad

Accessibility: Moderate

State of site: Bad

- CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule

Sample variability: Variable

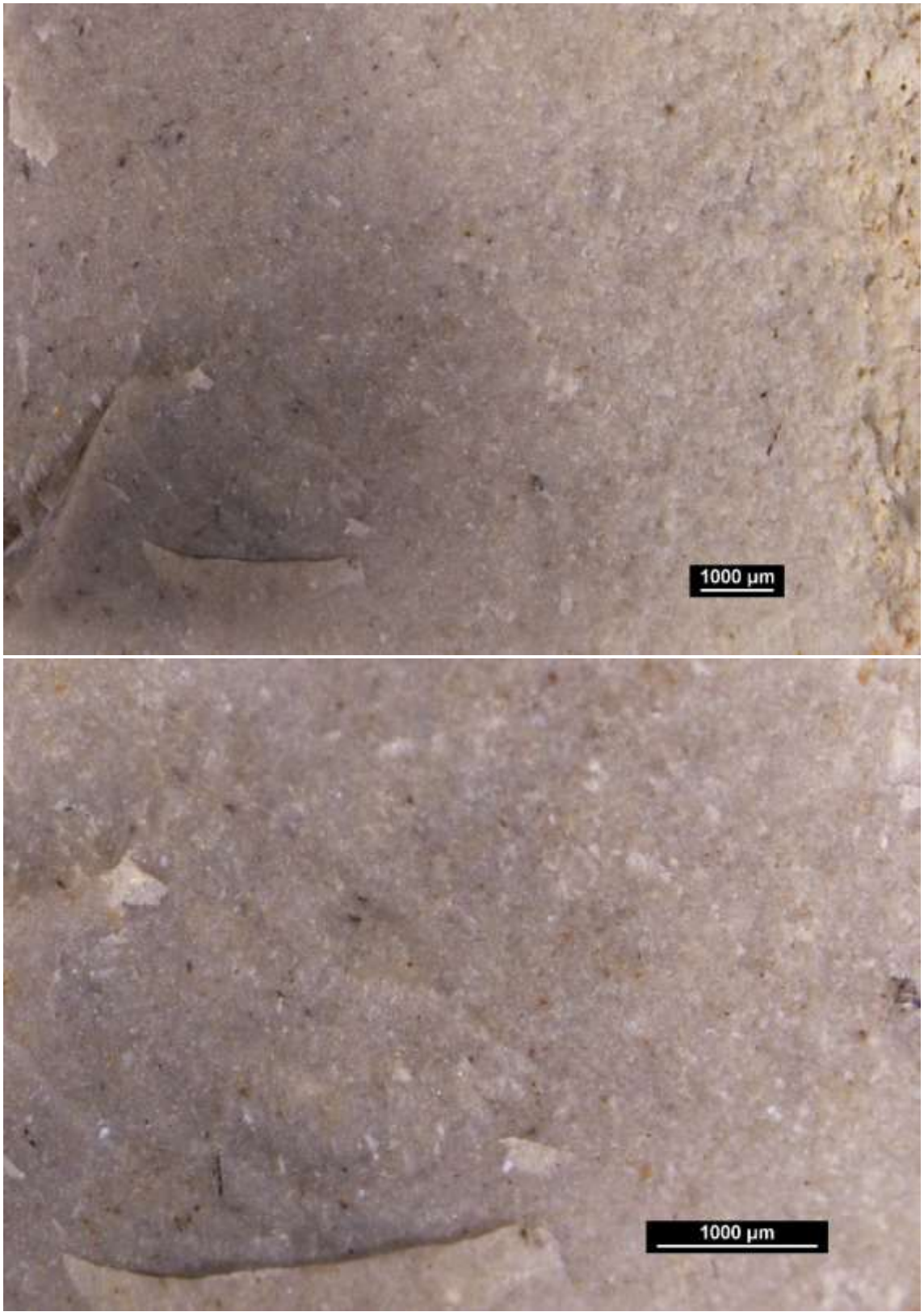
Frequency: Rare

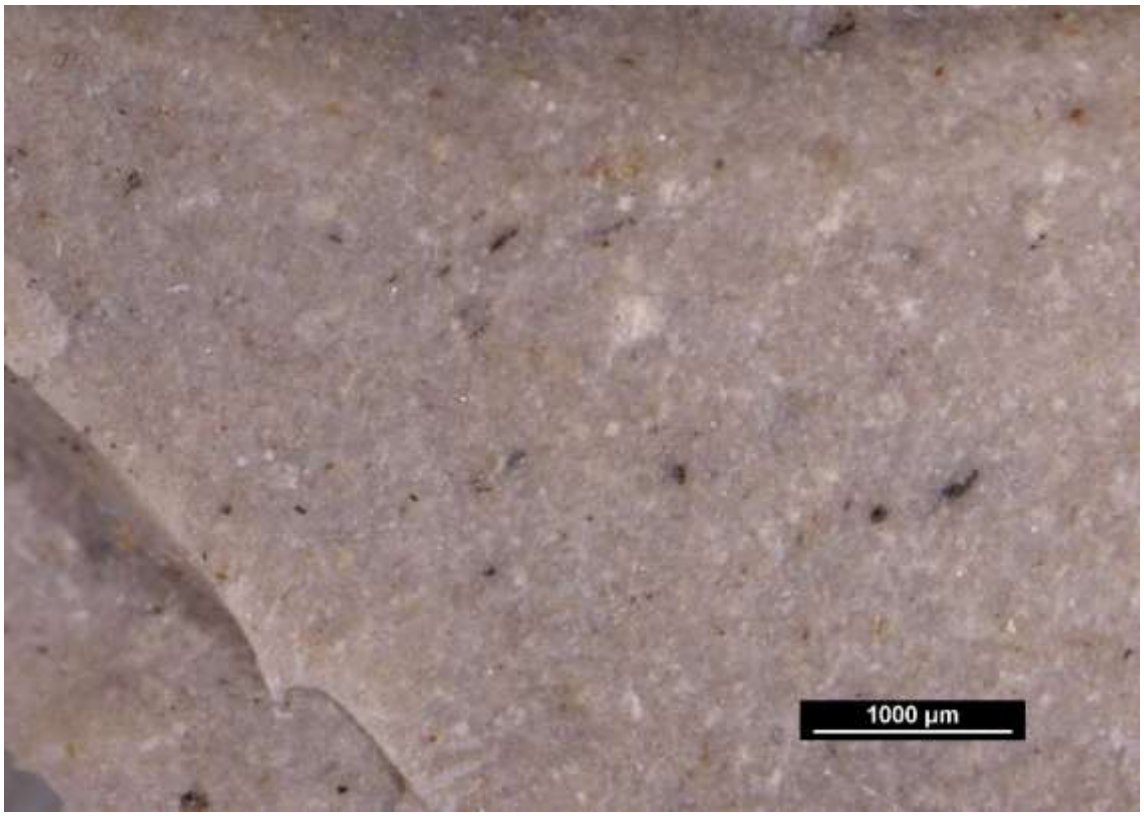
Nodule description: Broken and small, with the largest piece being 3cm wide.

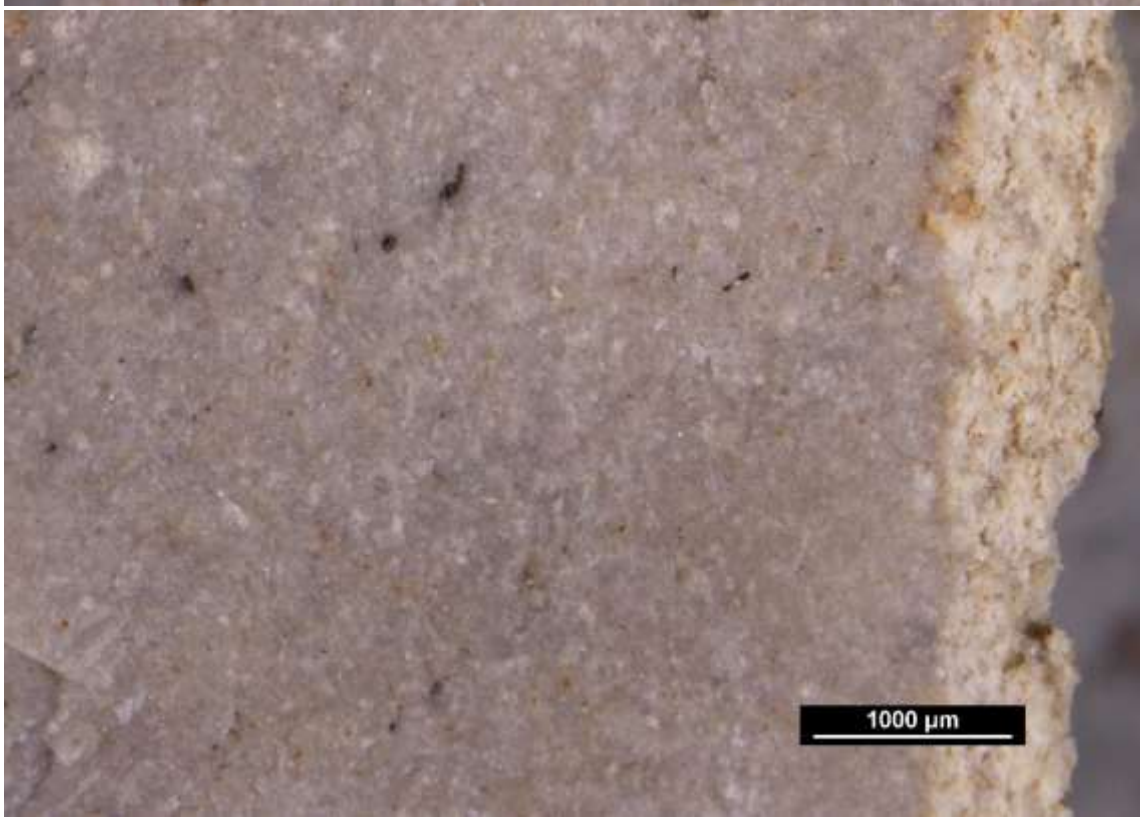
- SHORT DESCRIPTION

The chert is rare in this area and appears as small broken pieces. The alteration on the chert is concurrent with the transport possibly from a slope through a highly vegetated area.

Macroscopic photos




1000 µm


1000 µm


1000 µm


1000 µm


5 cm