Sample ID and provenance

Sample ID: SP9_PdA

Outcrop: Ponta dos Altos

Lithology: Chert

Unit/facies: Lower Jurassic

Collection: LusoLit

Thinsection: Yes

Macroscopic description

- COLOR

The color distribution is Single. The color is Brown (7.5YR 5/2).

- FABRIC

The luster is Shiny and the translucency is Opaque. The feel is Smooth and the grain is Fine. The distribution is Uneven with an Abrupt variation. The patterns are Spots (1-49%), which are Marbled mottling with an Uneven distribution.

- INCLUSIONS AND FOSSIL CONTENT

-

- CORTEX

The cortex has a gradual transition. When tested with dilute hydrochloric acid (HCL 10%), the reaction was Strong. The parent rock may be a Limestone.

- QUALITY

The fracture is Conchoidal and the surface is Homogeneous. The knapping quality is Good.

- OBSERVATION

-

Outcrop description

- OUTCROP CHARACTERISTICS

Type of outcrop: Primary

Visibility: Good

Accessibility: Moderate

State of site: Good

- CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule

Sample variability: Variable

Frequency: Abundant

Nodule description: Oval or irregular shaped, between 5 to 20cm

- SHORT DESCRIPTION

The chert can be found embedded in the parent rock. The chert outcrops near the edge of the cliff, at the top. The nodules are oval to irregular, between 5 to 20cm. The nodules show different degrees of dolomitization. Removing the nodules is difficult due to the chert being brittle.

Petrography analysis form

❖ TEXTURAL COMPOSITION

Texture: Packstone

Microstructure: Massive

❖ COMPOSITION

ORTHOCHEM	Type	%	Description
MiC quartz (gr)	SE	95	-
Dolomite	SE	5	-

ALLOCHEM	Freq	Description
Oxides	Common	-

BIOCLASTS	Freq	Description
Ghosts	Common	-

❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): <1

Porosity type: -

Other sedimentary structures: Burrows

Observations

- -

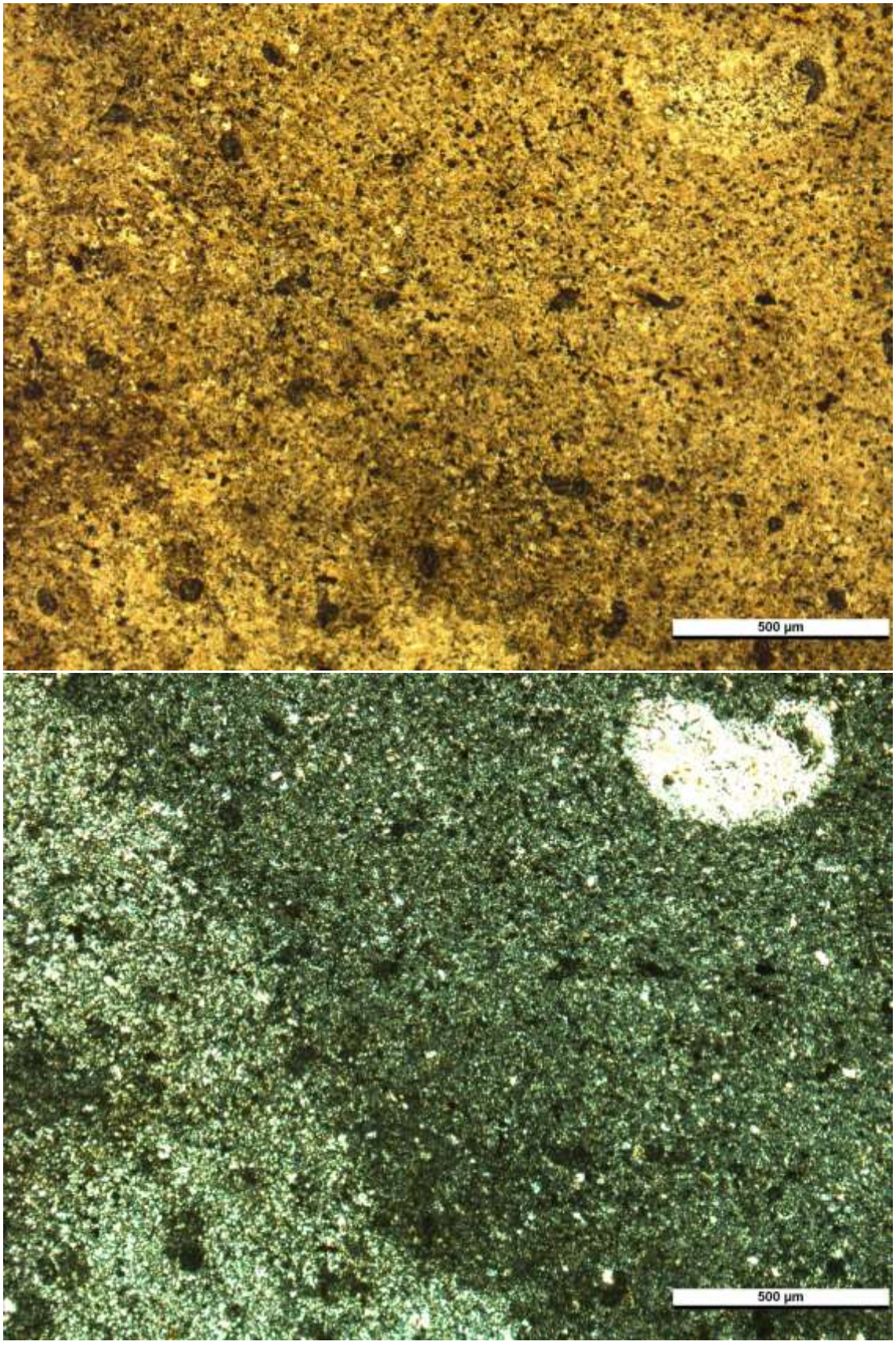
Analysis information

- **ANALYST:** JB
- **DATE:** 02.23.2022
- **EQUIPMENT:** Leica DM2500 P

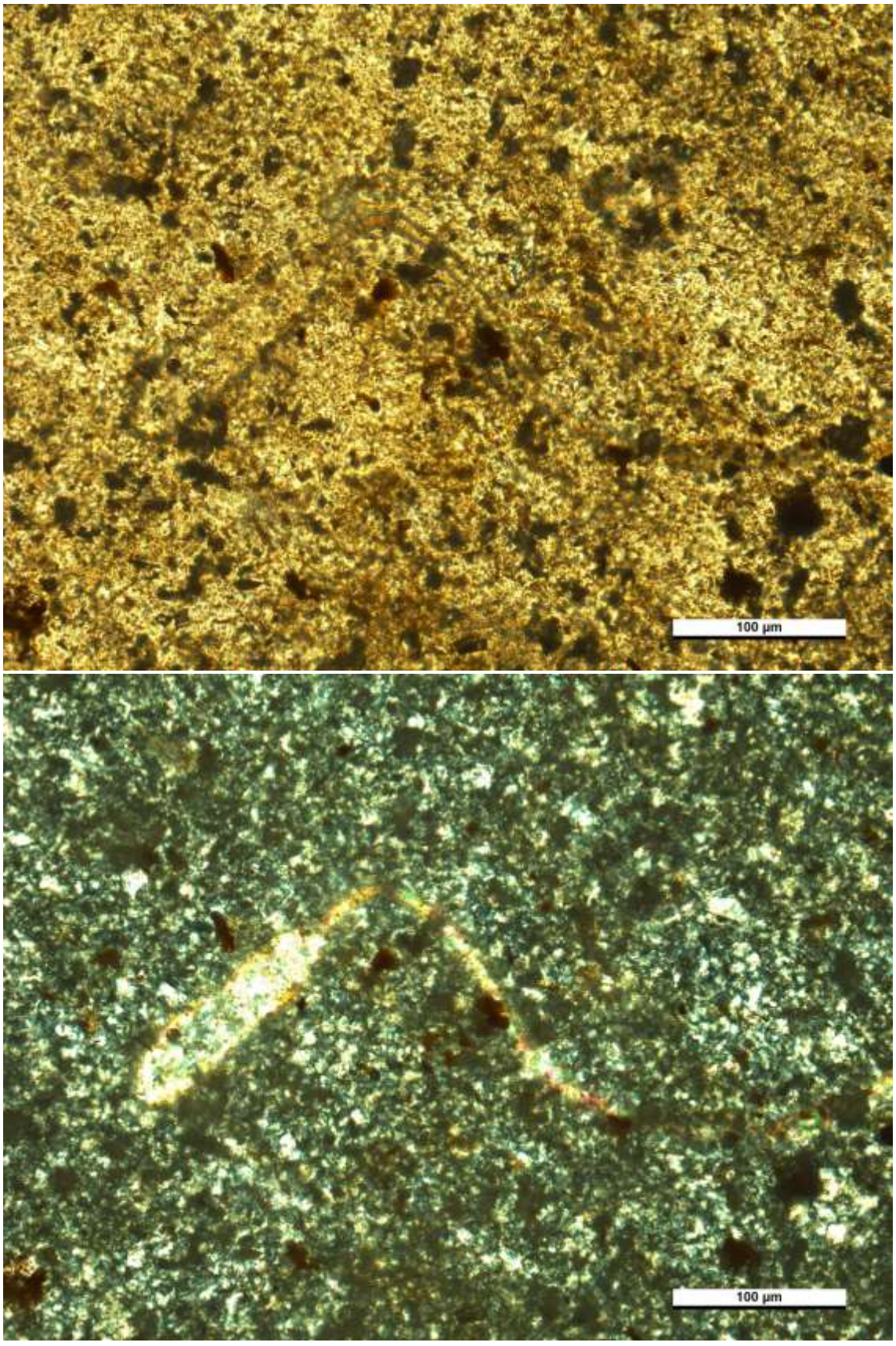
Photos

Photo ID	Aug.	Description
SP9_001	5x	View of different zones in the chert.
SP9_002	20x	Unknown fossil.

Petrography photos

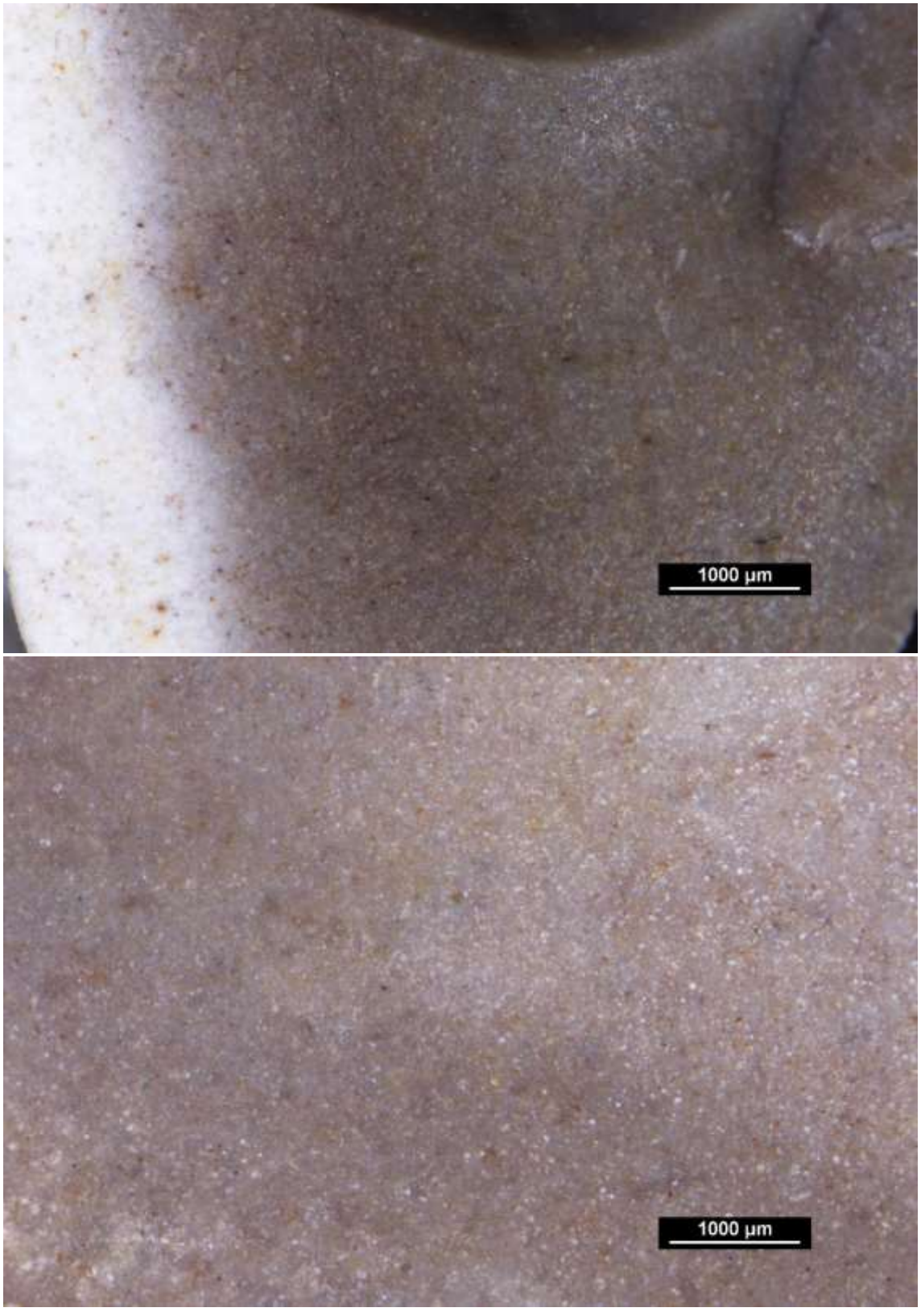


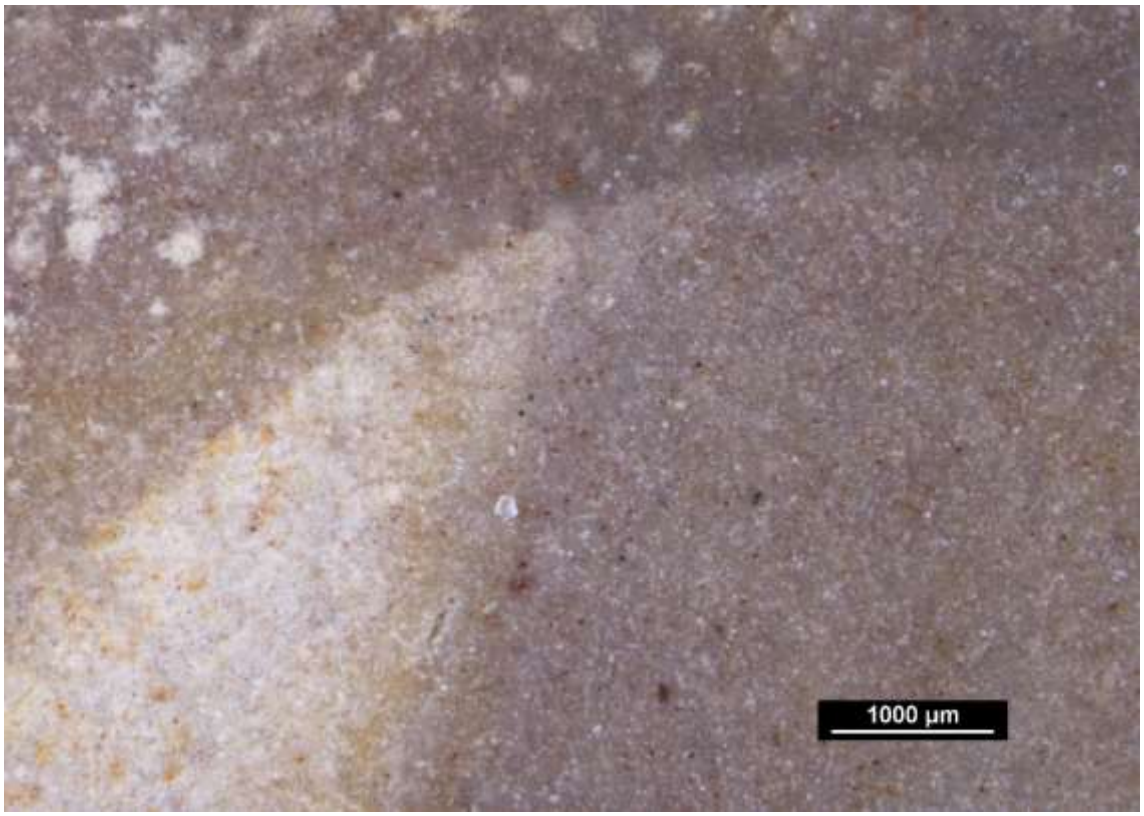
SP9_PdA_001 (PPL and XPL)

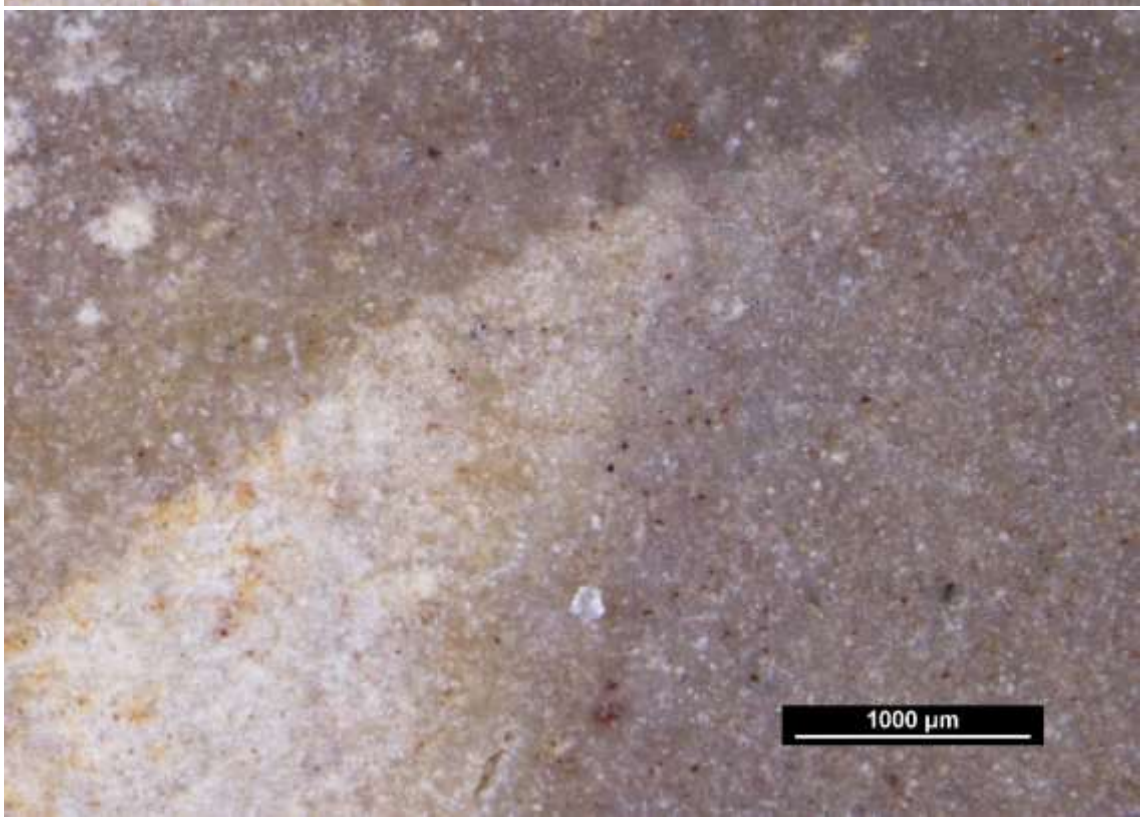


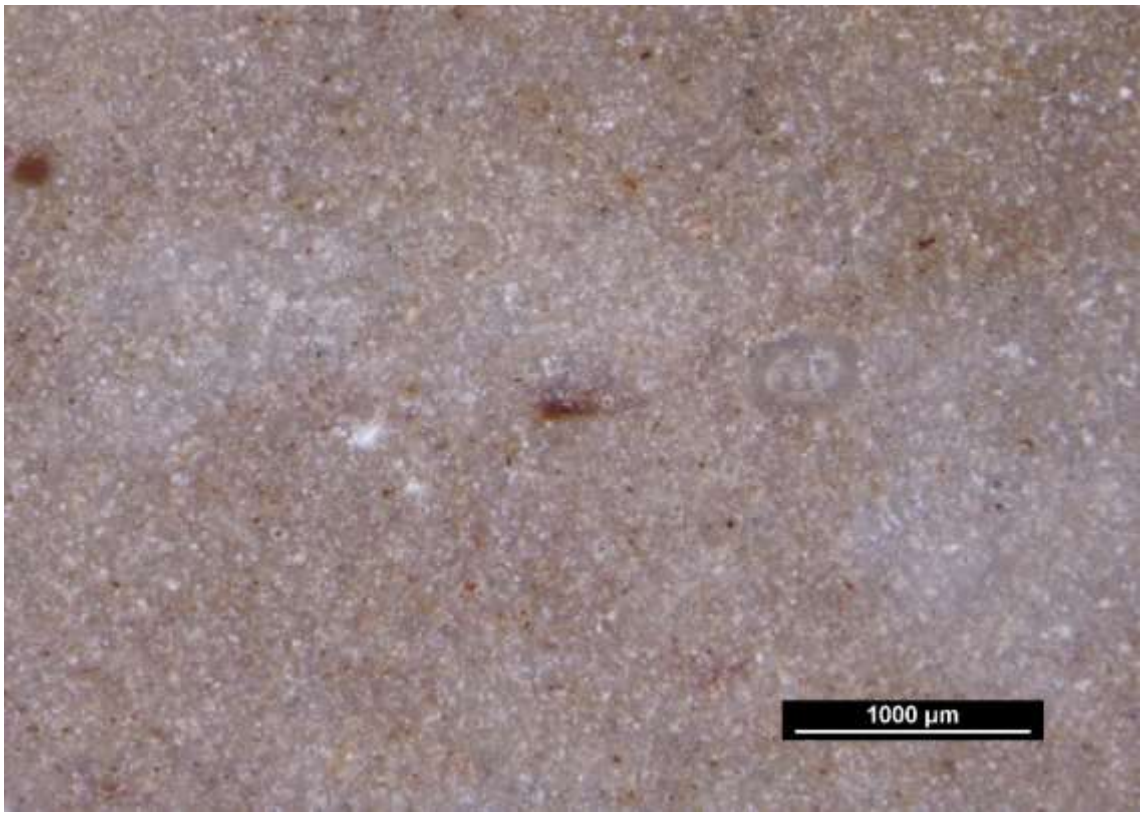
SP9_PdA_002 (PPL and XPL)

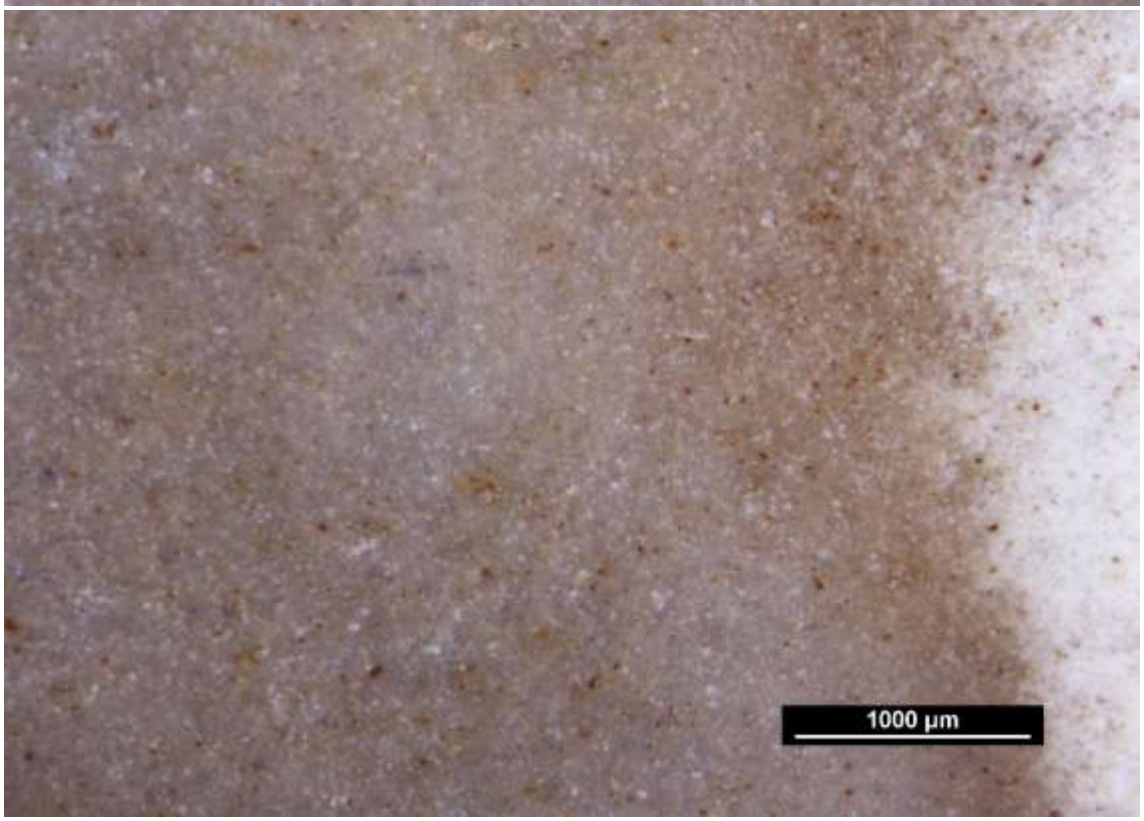
Macroscopic photos




1000 µm


1000 µm


1000 µm


1000 µm


1000 µm