Sample ID and provenance

Sample ID: SP7_CSV

Lithology: Chert

Collection: LusoLit

Outcrop: Cabo S. Vicente

Unit/facies: Lower Jurassic

Thinsection: Yes

Macroscopic description

- COLOR

Color distribution is Mix sharp. The colors are Light yellowish brown (10YR 6/4), Dusky red (10R 3/4) and Light gray (10YR 7/1).

- FABRIC

The luster is Dull and the translucency is Opaque. The feel is Semi-smooth and the grain is Fine. The structure is Uneven with an Abrupt variation. Patterns are Spots (50-99%) and Lines (1-49%). The spots are Marbled mottling with an Even distribution. The lines are Concentric Laminated.

- INCLUSIONS AND FOSSIL CONTENT

-

- CORTEX

Cortex is from an Outcrop with a Gradual transition.

When tested with dilute hydrochloric acid (HCL 10%), the reaction was weak. The parent rock may be a dolomite or a dolomitic limestone.

- QUALITY

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

- OBSERVATION

The parent rock shows varied degrees of dolomitization and silicification, which hampers the identification of the nodule's limits. The sampled nodules is small and angular.

Outcrop description

- OUTCROP CHARACTERISTICS

Type of outcrop: Primary

Visibility: Good

Accessibility: Easy

State of site: Good

- CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule/Bedded

Sample variability: Homogeneous

Frequency: Abundant

Nodule description: The chert appears as oval nodules or as bedded cherts. They seem to be brittle and filled with fractures, which make the chert difficult to remove without breaking.

- SHORT DESCRIPTION

The chert can be found in sections within the cliff, from the top to the bottom (although the bottom cherts are not accessible). The nodules and beds are abundant, and chert chunks can also be found near the outcrop.

Petrography analysis form

❖ TEXTURAL COMPOSITION

Texture: Wackestone

Microstructure: Massive

❖ COMPOSITION

ORTHOCHEM	Type	%	Description
MiC quartz (gr)	SE	95	-
MG quartz (gr)	ES	5	-
Dolomite	SE	1	-

ALLOCHEM	Freq	Description
Oxides	Common	There are some visible concentrations of oxides.

BIOCLASTS	Freq	Description
Ghosts	Common	-
Echinoid spine	Uncommon	

❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): 5

Porosity type: Vuggy

Other sedimentary structures: -

Observations

- -

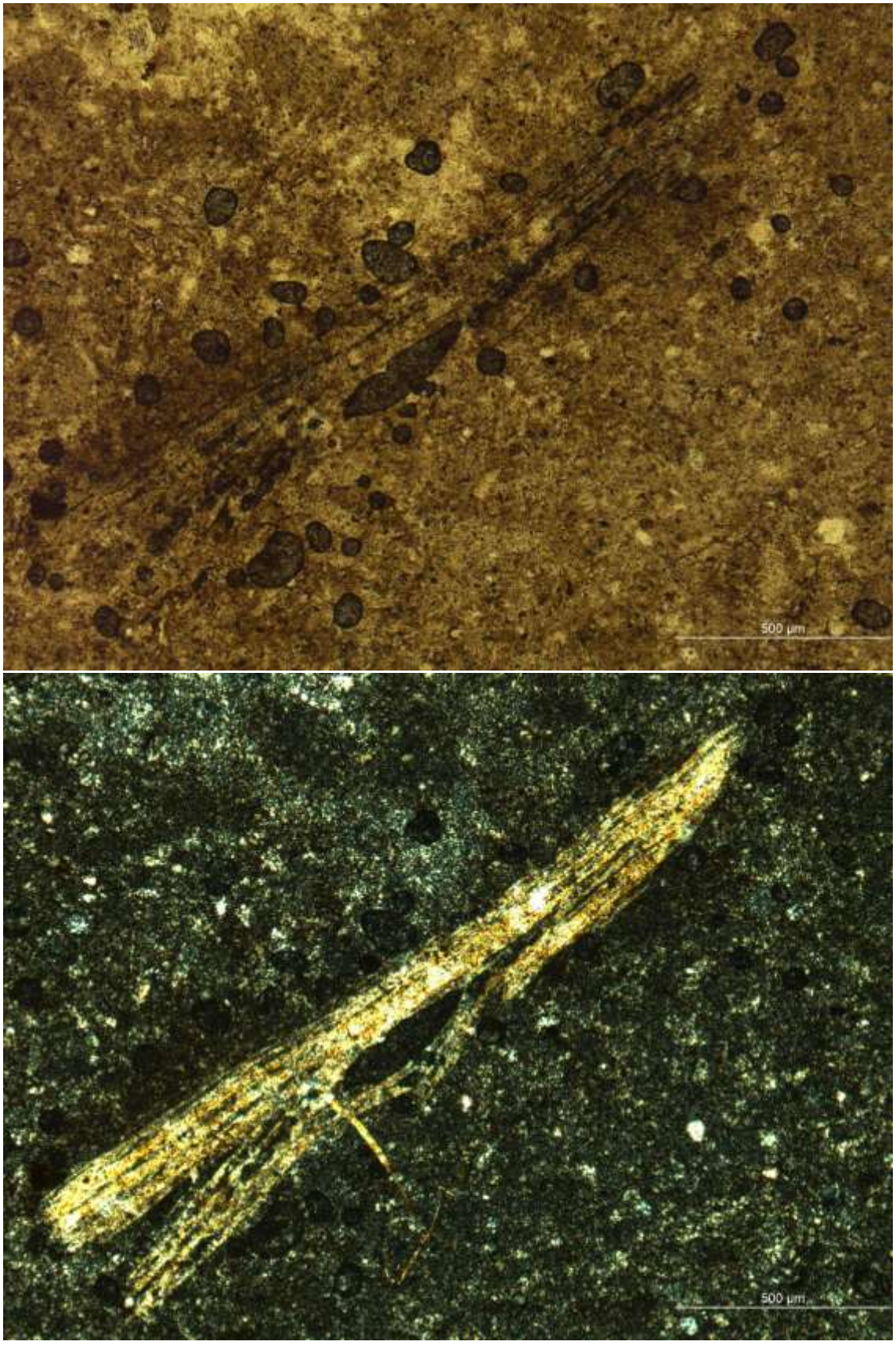
Analysis information

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

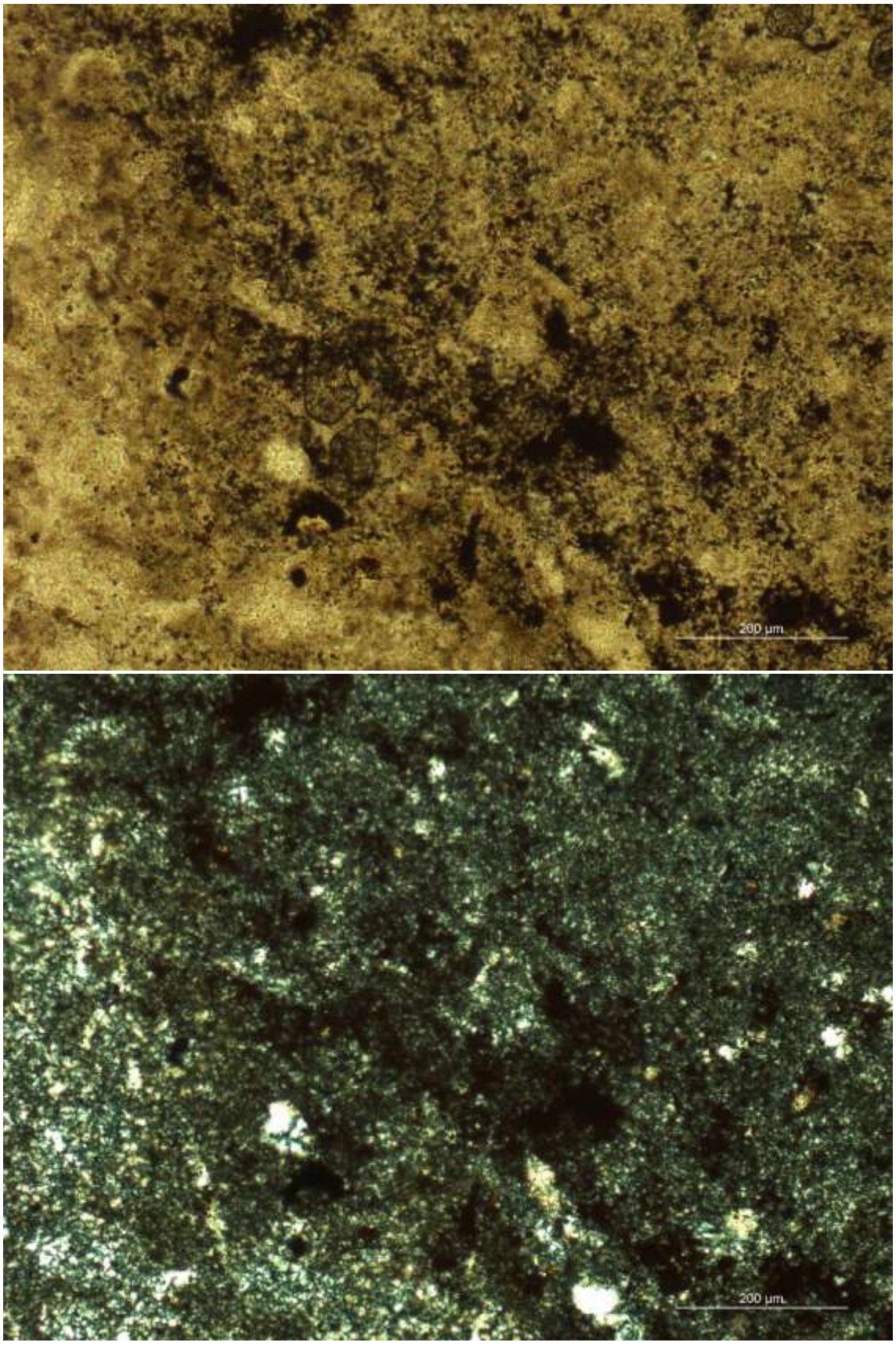
Photos

Photo ID	Aug.	Description
SP7_001	5x	Echinoid spine.
SP7_002	10x	Concentration of oxides.
SP7_003	20x	Ghosts.
SP7_004	20x	Cortex composed of dolomite/calcite.

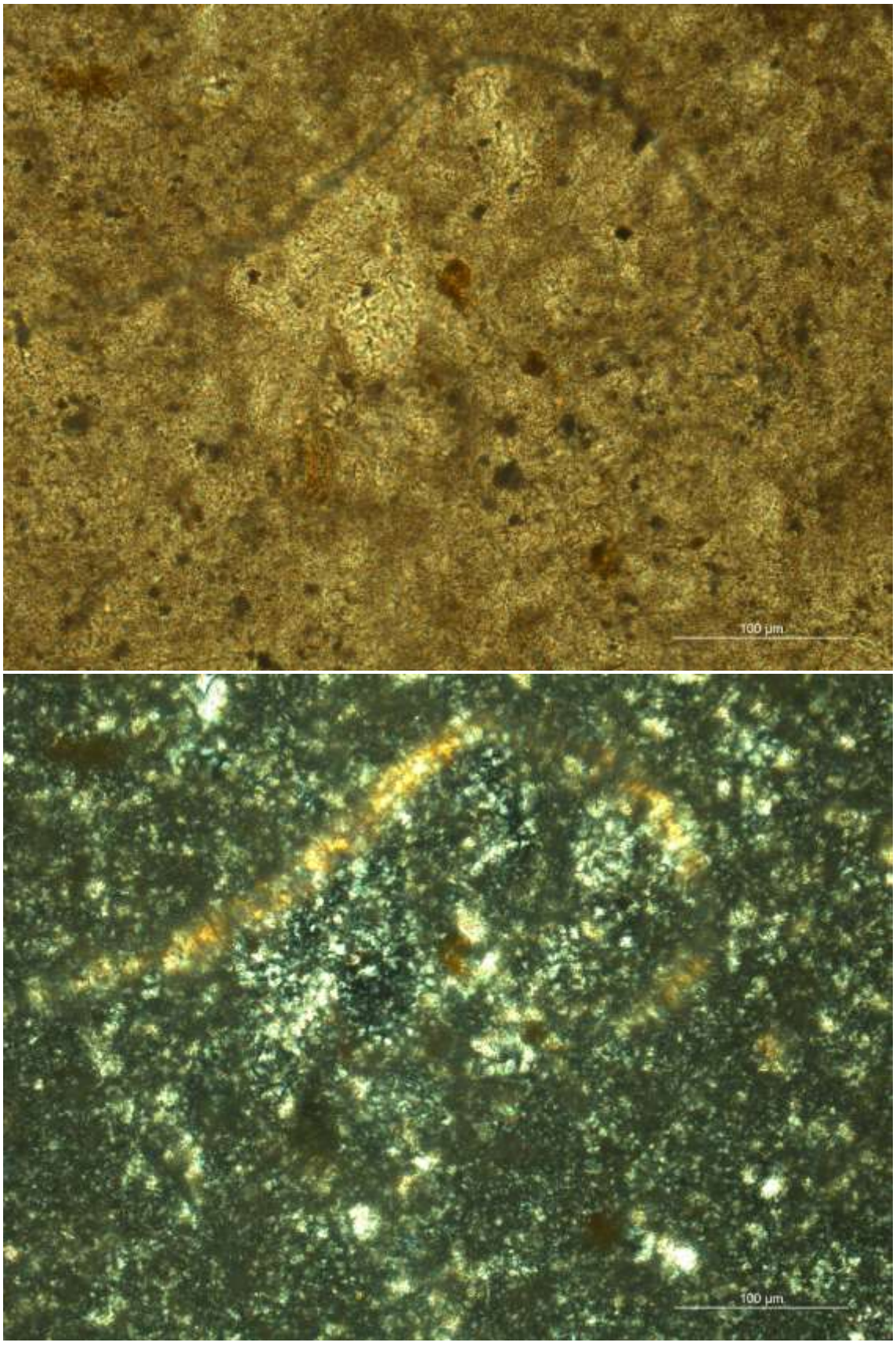
Petrography photos



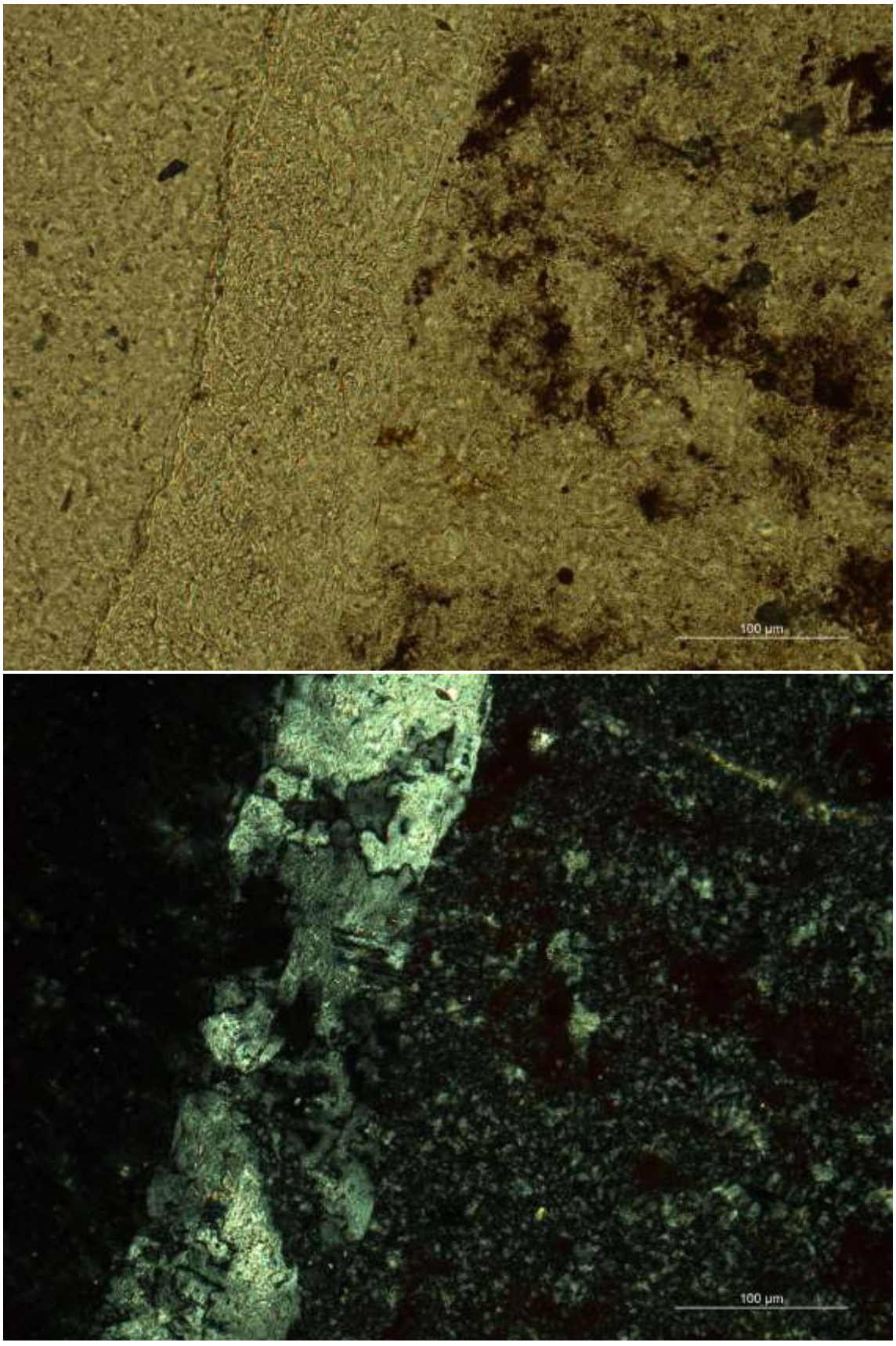
SP7_CSV_001 (PPL and XPL)



SP7_CSV_002 (PPL and XPL)

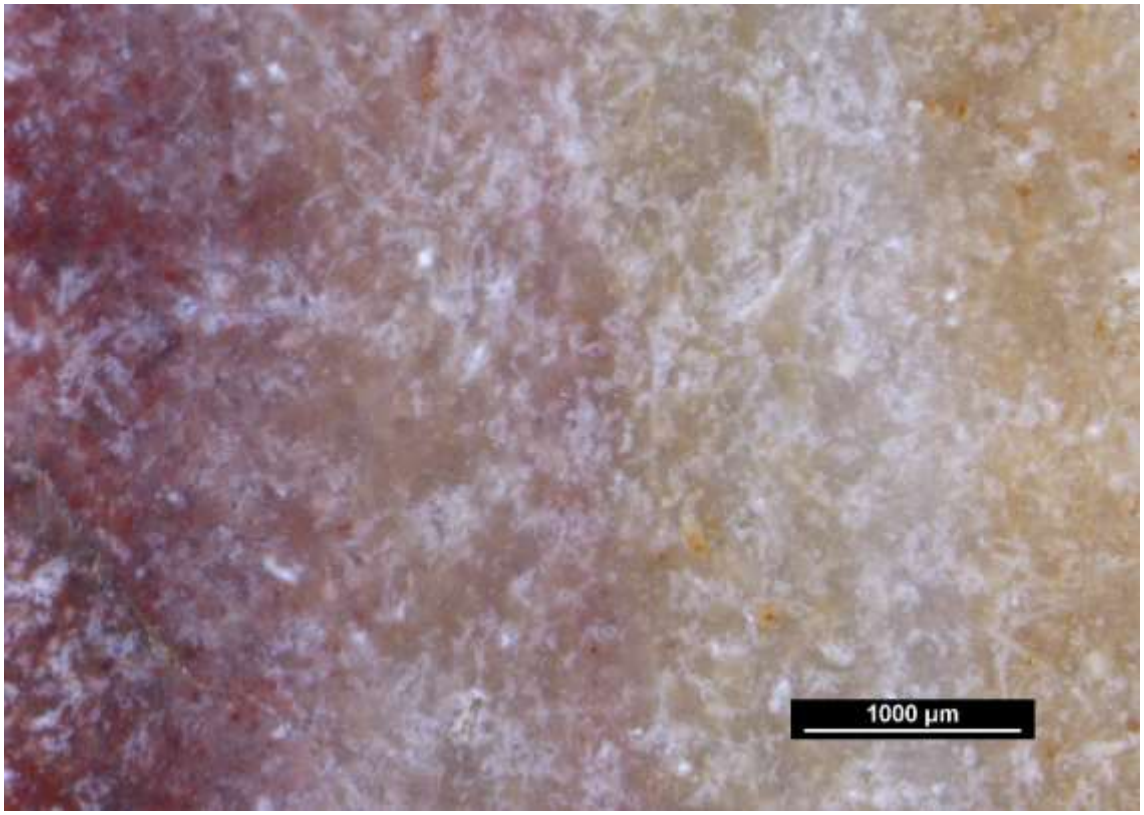


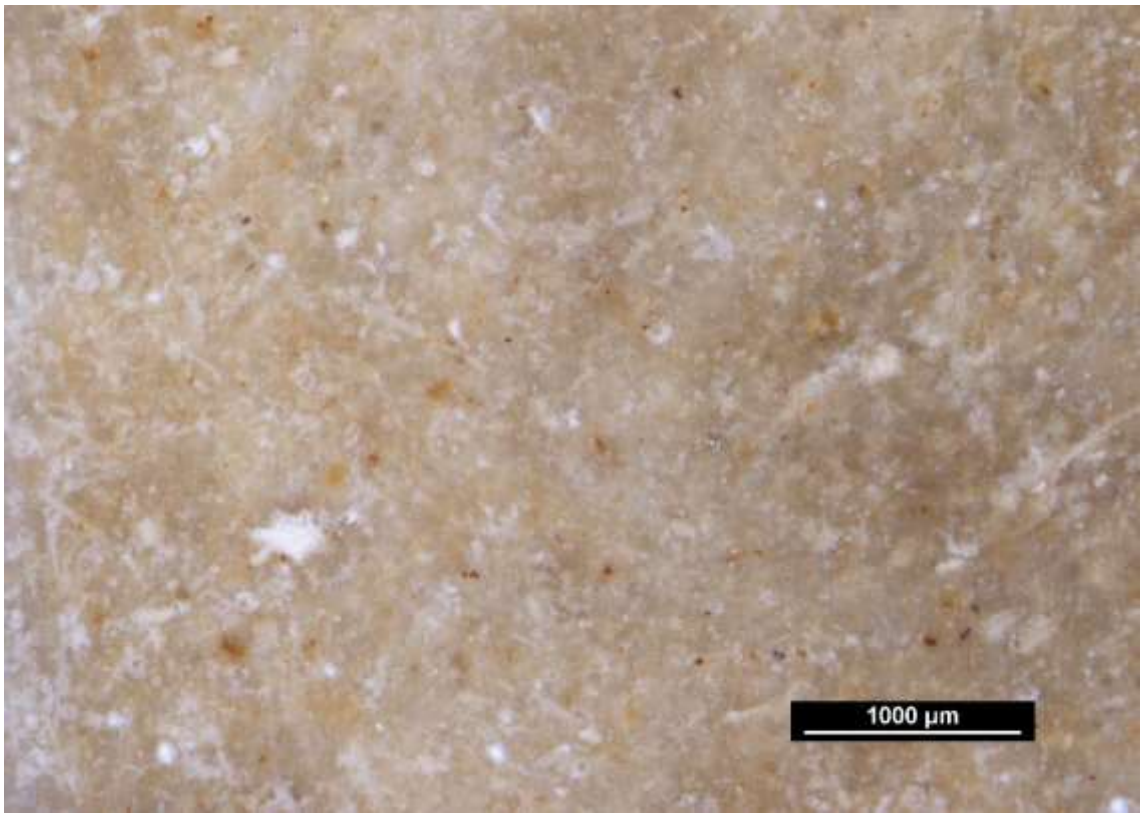
SP7_CSV_003 (PPL and XPL)



SP7_CSV_004 (PPL and XPL)

Macroscopic photos






1000 µm


cm 1 2 3 4 5


cm 1 2 3 4 5