

Sample ID and provenance

Sample ID: SP10_PdA

Lithology: Chert

Collection: LusoLit

Outcrop: Ponta dos Altos

Unit/facies: Lower Jurassic

Thinsection: Yes

Macroscopic description

❖ COLOR

The color distribution is Single. The color is Grayish brown (10YR 5/2).

❖ FABRIC

The luster is Shiny and the translucency is Opaque. The feel is Smooth and the grain is Fine. The distribution is Even.

❖ INCLUSIONS AND FOSSIL CONTENT

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❖ CORTEX

The cortex is Outcrop type, with a sharp 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

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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: Homogeneous

Frequency: Abundant

Nodule description: Oval to irregular, between 5 to 10cm

❖ 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 10cm. The nodules have thick cortex but are difficult to remove from the parent rock.

Petrography analysis form

❖ TEXTURAL COMPOSITION

Texture: Wackestone

Microstructure: Massive

❖ COMPOSITION

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

ALLO-CHEM	Freq	Description
Oxides	Uncommon	-

BIOCLASTS	Freq	Description
Ghosts	Common	Poorly preserved.

❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): <1

Porosity type: -

Other sedimentary structures: Burrows

Observations

- ❖ The burrow limit has a 1st stage of replacement with carbonated (micritic) and dolomite, and then a silicification of this structure. There is a difference between the fill of the burrow and the outside.
- ❖ Reference 1: Carbonate sedimentology. Tucker/Wright. pp.26
- ❖ Reference 2: Flügel. pp.751

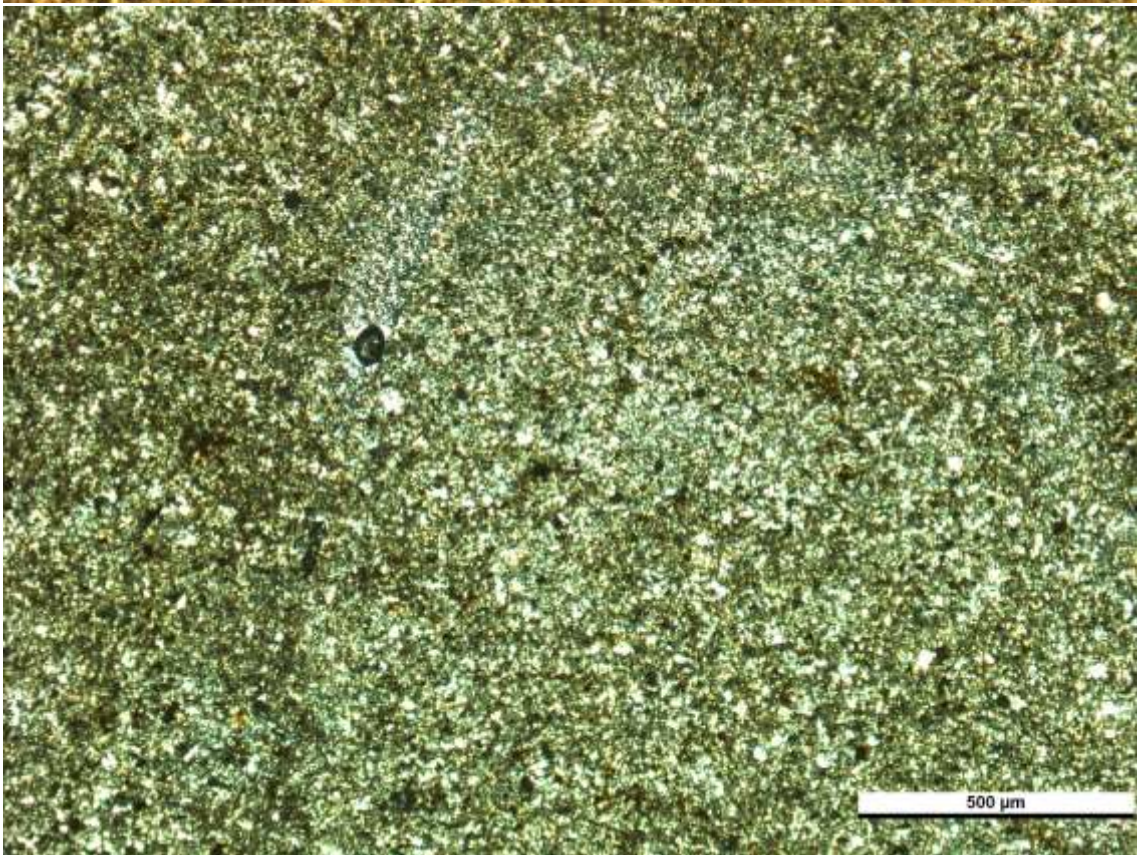
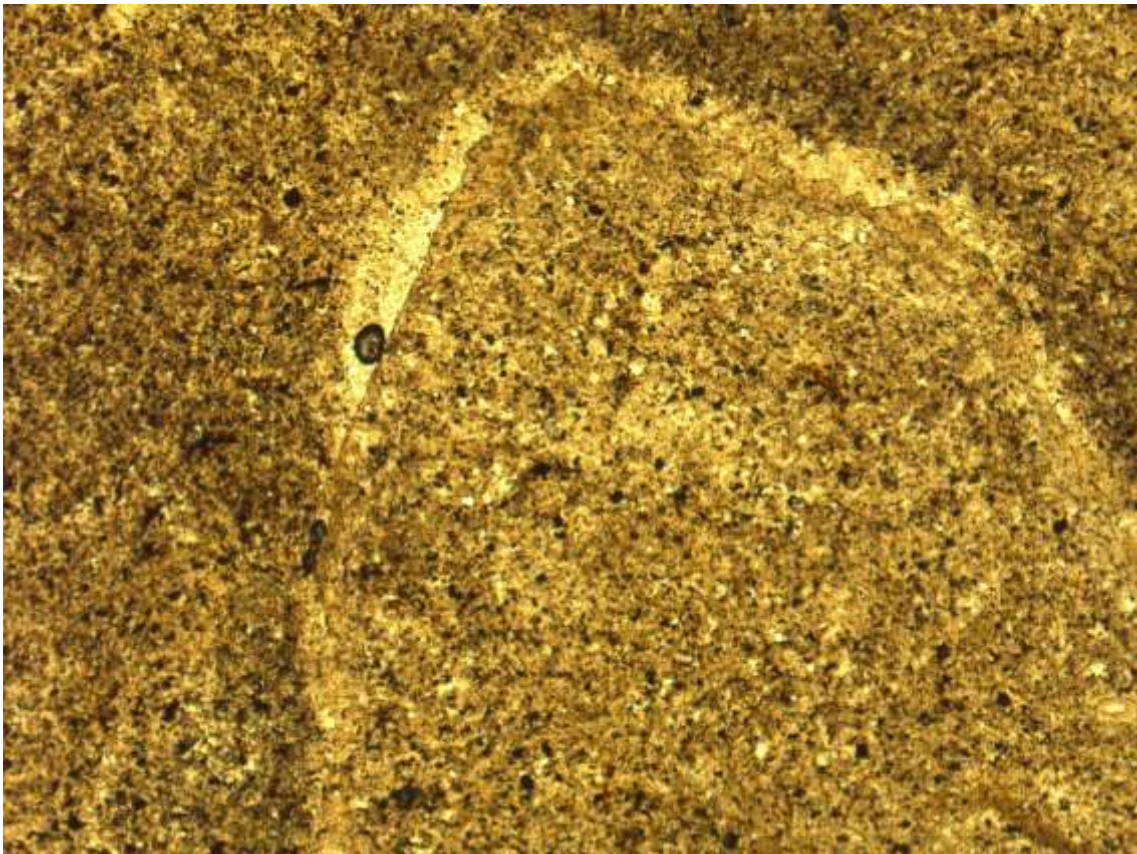
Analysis information

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

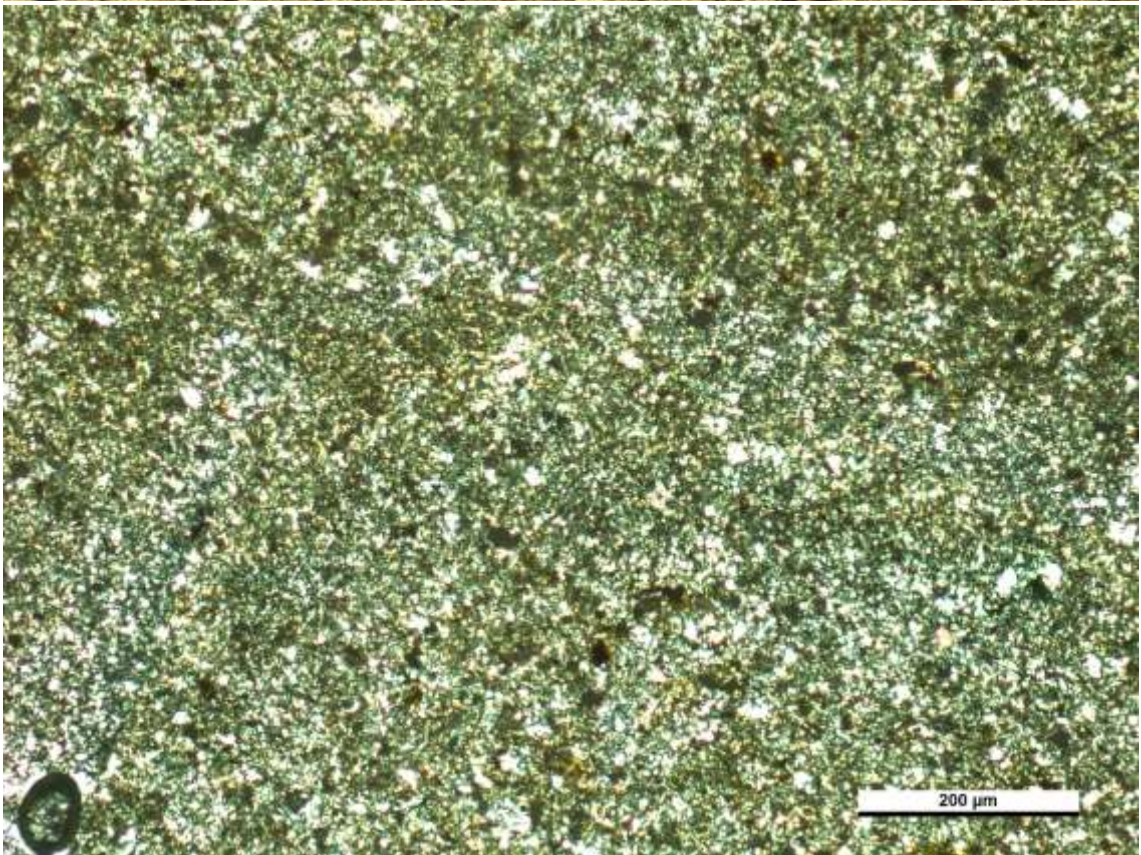
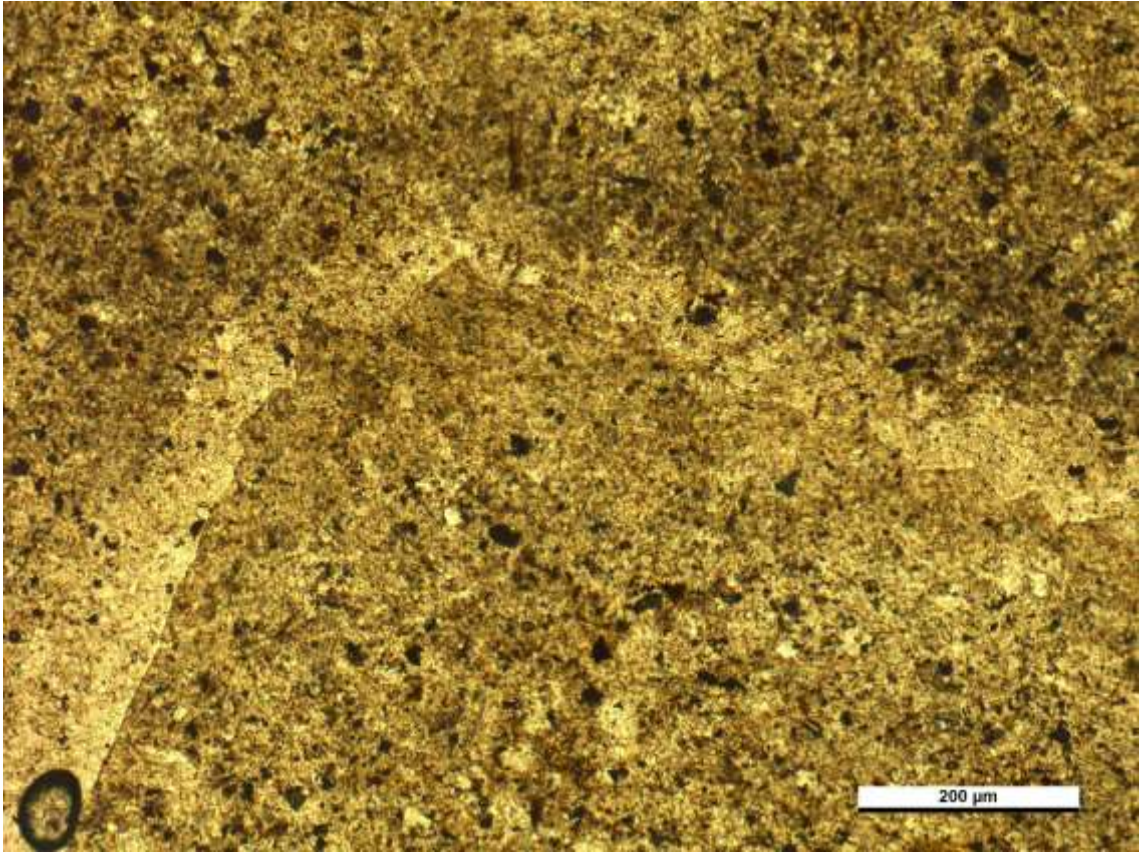
Photos

Photo ID	Aug.	Description
SP10_001	5x	Burrow.
SP10_002	10x	Detail of burrow and dolomite crystals in the edges.

Petrography photos



SP10_PdA_001 (PPL and XPL)



SP10_PdA_002 (PPL and XPL)

Macroscopic photos











