

## Sample ID and provenance

Sample ID: SP24\_CSV

Lithology: Chert

Collection: LusoLit

Outcrop: Cabo S. Vicente

Unit/facies: Lower Jurassic

Thinsection: Yes

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## Macroscopic description

### ❖ COLOR

Color distribution is Mix Sharp. The colors are Yellowish brown (10YR 5/4), Weak red (10R 5/2) and Weak red (10R 4/4).

### ❖ FABRIC

The luster is Dull and the translucency is Opaque. The feel is Semi-smooth and the grain is Fine. The distribution is Uneven with an Abrupt variation. The patterns are Shaded, Spots (50-99%) and Lines (1-49%). The spots are Broad mottling and Spotted with an Uneven distribution. The lines are Horizontal Laminated and Finely laminated.

### ❖ INCLUSIONS AND FOSSIL CONTENT

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### ❖ CORTEX

The cortex is of Outcrop type, with a Thin to Medium thickness and a Gradual transition. When tested with dilute hydrochloric acid (HCL 10%), there was no reaction. The parent rock may be a dolomite.

### ❖ QUALITY

The fracture type is Conchoidal and the surface has Fractures. The knapping quality is Medium.

### ❖ OBSERVATION

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## Outcrop description

### ❖ OUTCROP CHARACTERISTICS

**Type of outcrop:** Primary

**Visibility:** Good

**Accessibility:** Easy

**State of site:** Bad

### ❖ CHERT NODULES/BEDS DESCRIPTION

**Type of chert nodule:** Nodule

**Sample variability:** Homogeneous

**Frequency:** Sporadic

**Nodule description:** The nodules are oval and around 5cm.

### ❖ SHORT DESCRIPTION

The chert nodules are around 5cm and oval, embedded in what seems to be cemented sediment or conglomerates.

## Petrography analysis form

### ❖ TEXTURAL COMPOSITION

**Texture:** Wackestone

**Microstructure:** Massive

### ❖ COMPOSITION

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

ALLOCHEM	Freq	Description
Oxides	Common	-

BIOCLASTS	Freq	Description
Ghosts	Common	-
Echinoid spine	Uncommon	-

### ❖ OTHER TEXTURAL CHARACTERISTICS

**Total porosity (%):** 5

**Porosity type:** Vuggy

**Other sedimentary structures:** -

## Observations

❖ -

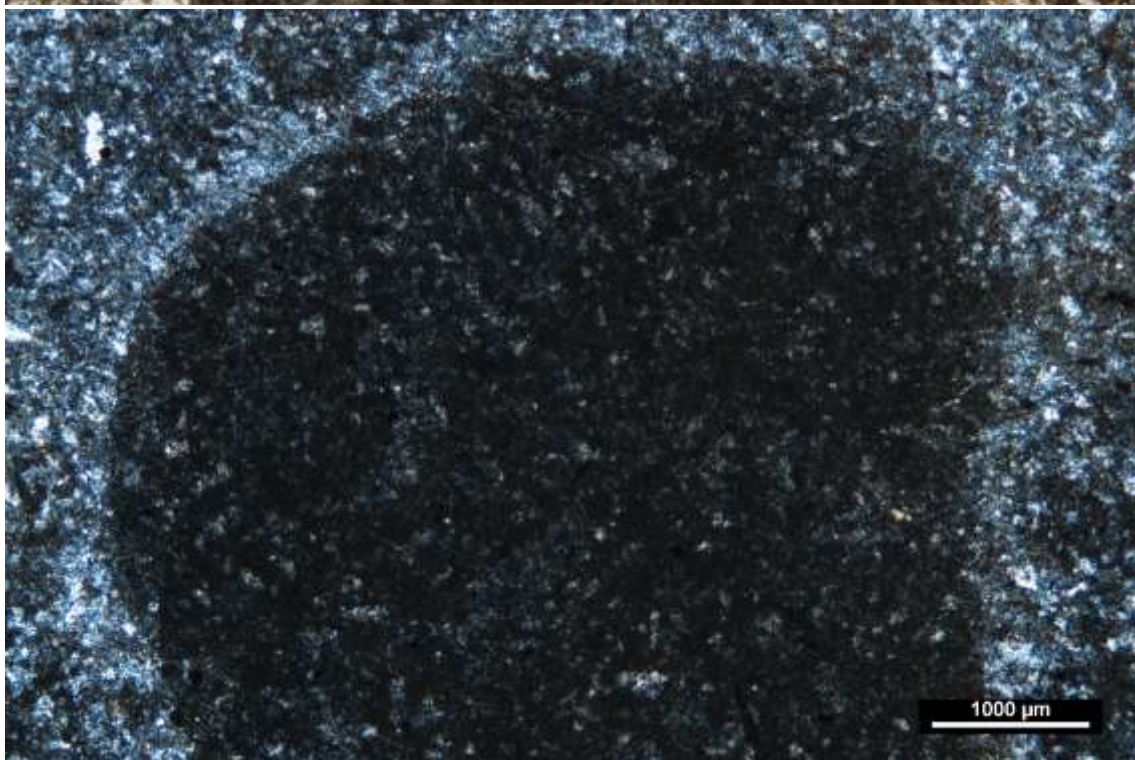
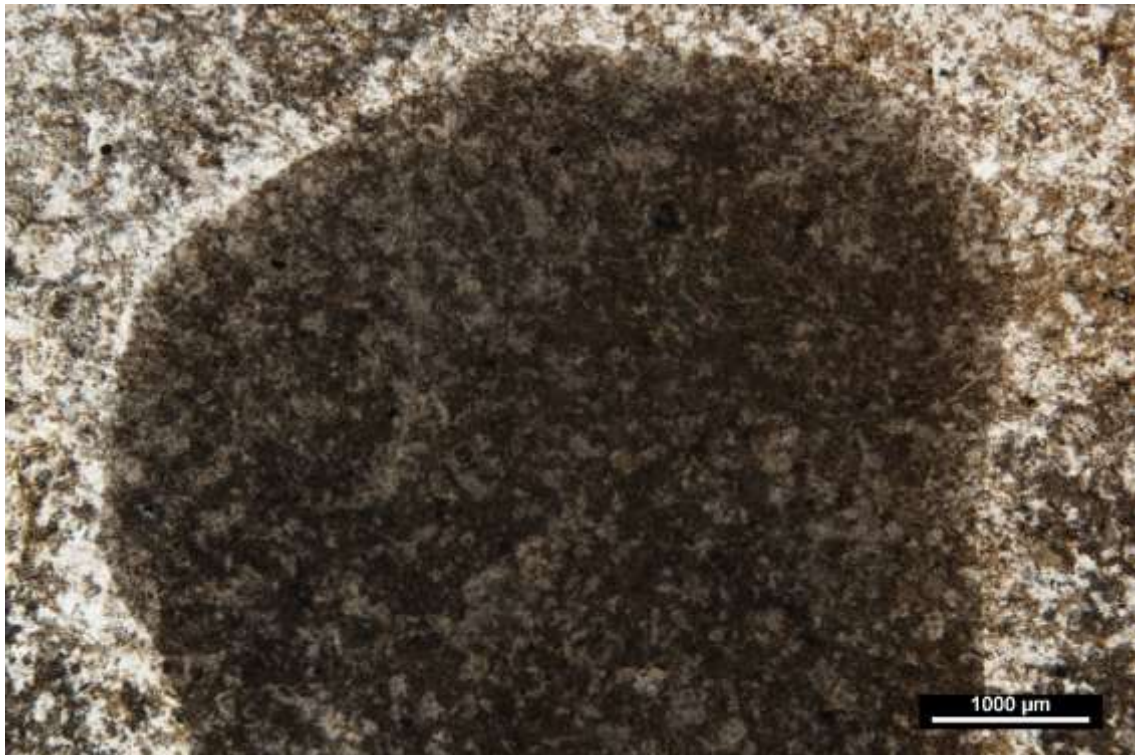
## Analysis information

- ❖ ANALYST: JB
- ❖ DATE: 05.19.2022
- ❖ EQUIPMENT: Nikon LV100ND

## Photos

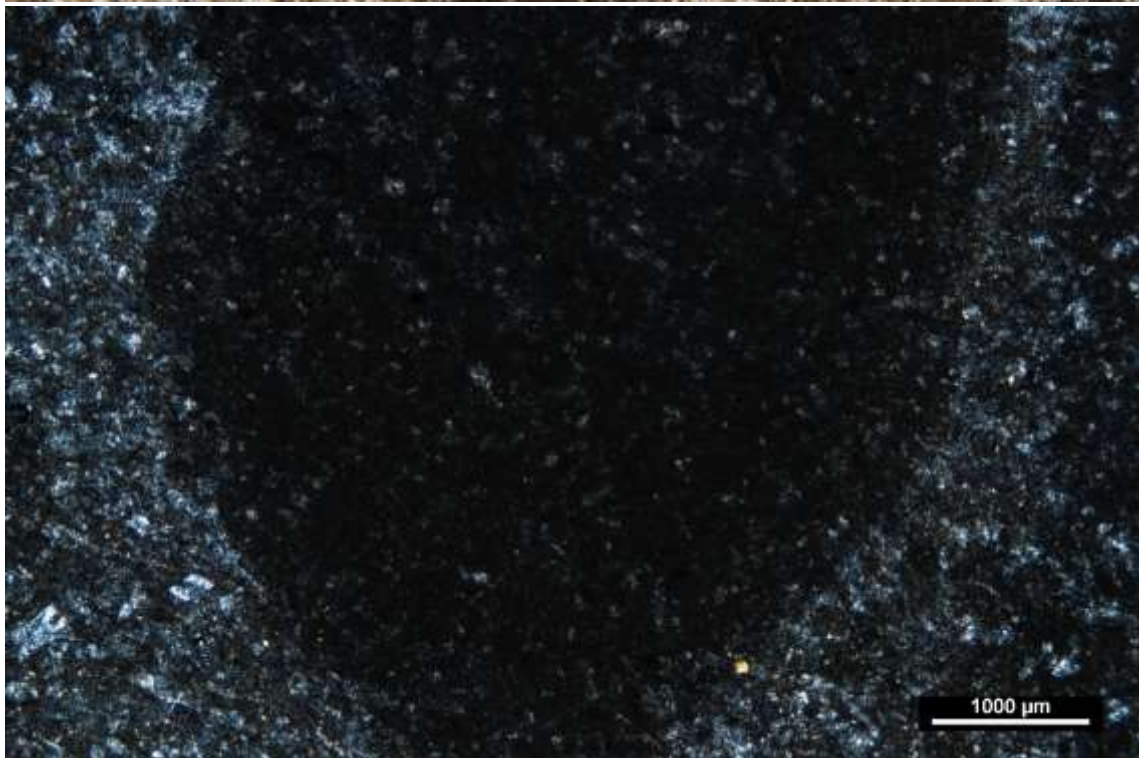
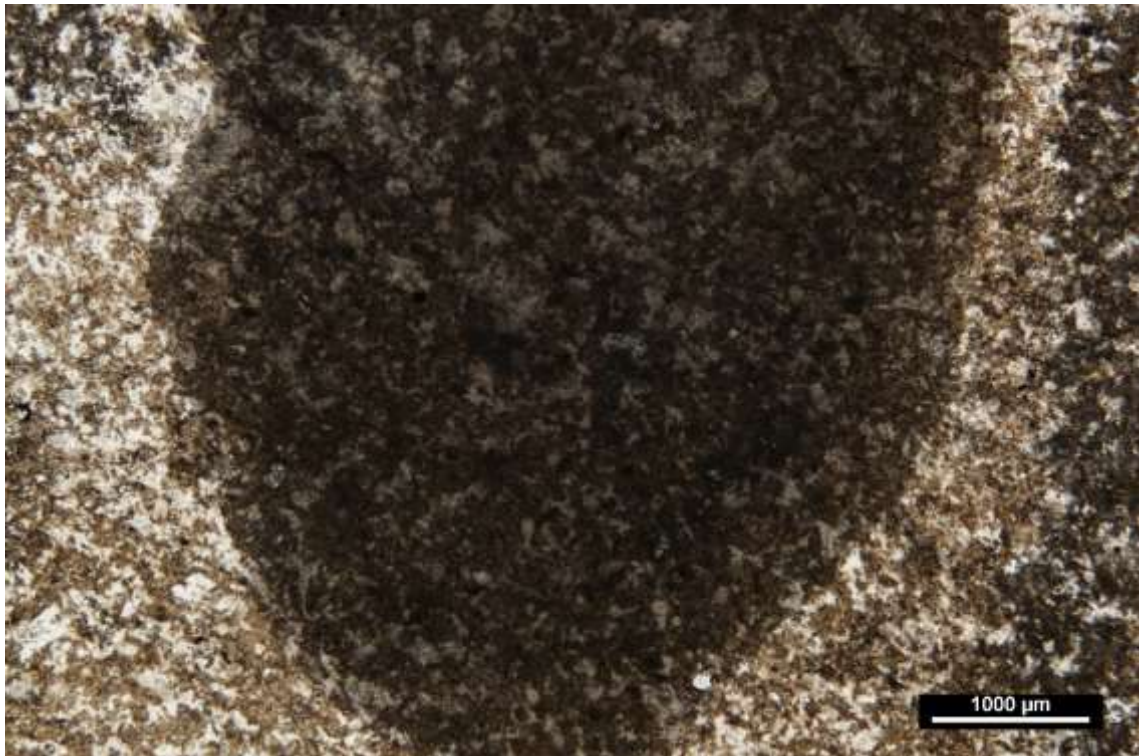
Photo ID	Aug.	Description
SP24_001	5x	Unidentified fossil replaced by granular megacrystalline quartz, with an outer layer of microcrystalline quartz. Unidentified blue mineral.
SP24_002	5x	General view of the thin section with representation of wackestone texture and massive microstructure.
SP24_003	-	Different textures in the chert, probably due to differences in the cortex area or existence of dolomite.
SP24_004	2x	Detail of a fossil, possibly an echinoid spine.
SP24_005	-	-
SP24_006	-	-
SP24_007	-	-

Petrography photos

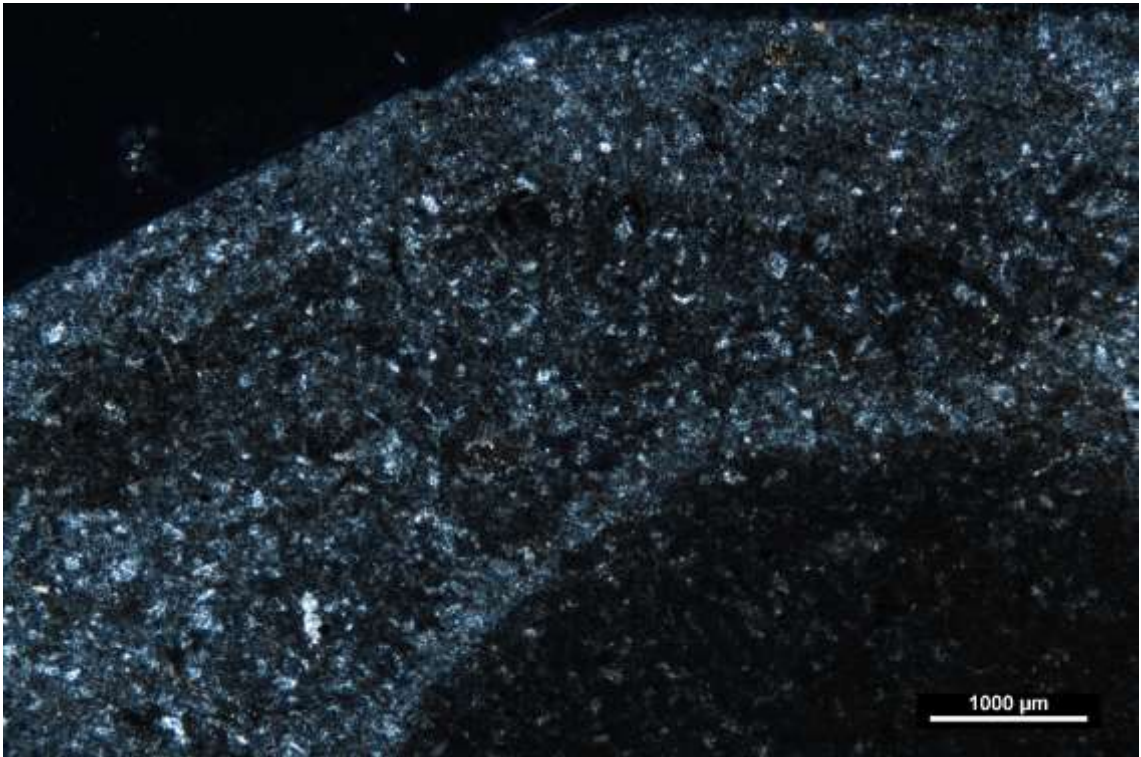
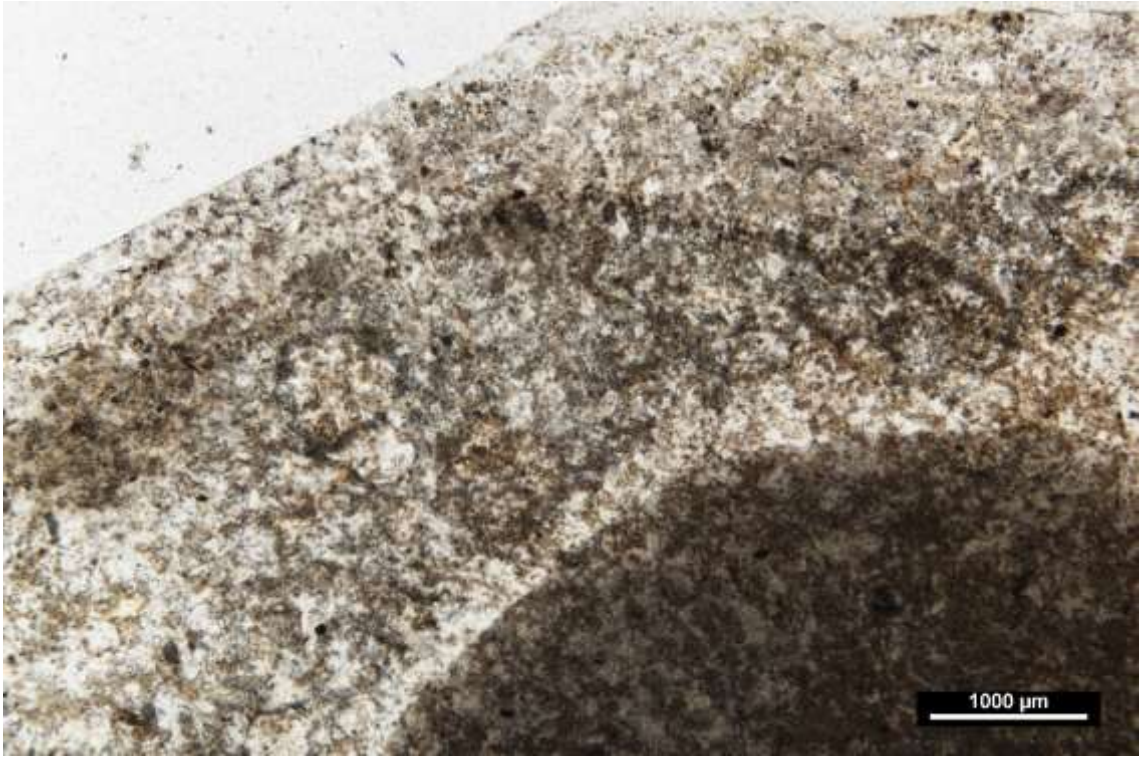


SP24\_CSV\_001 (PPL and XPL)



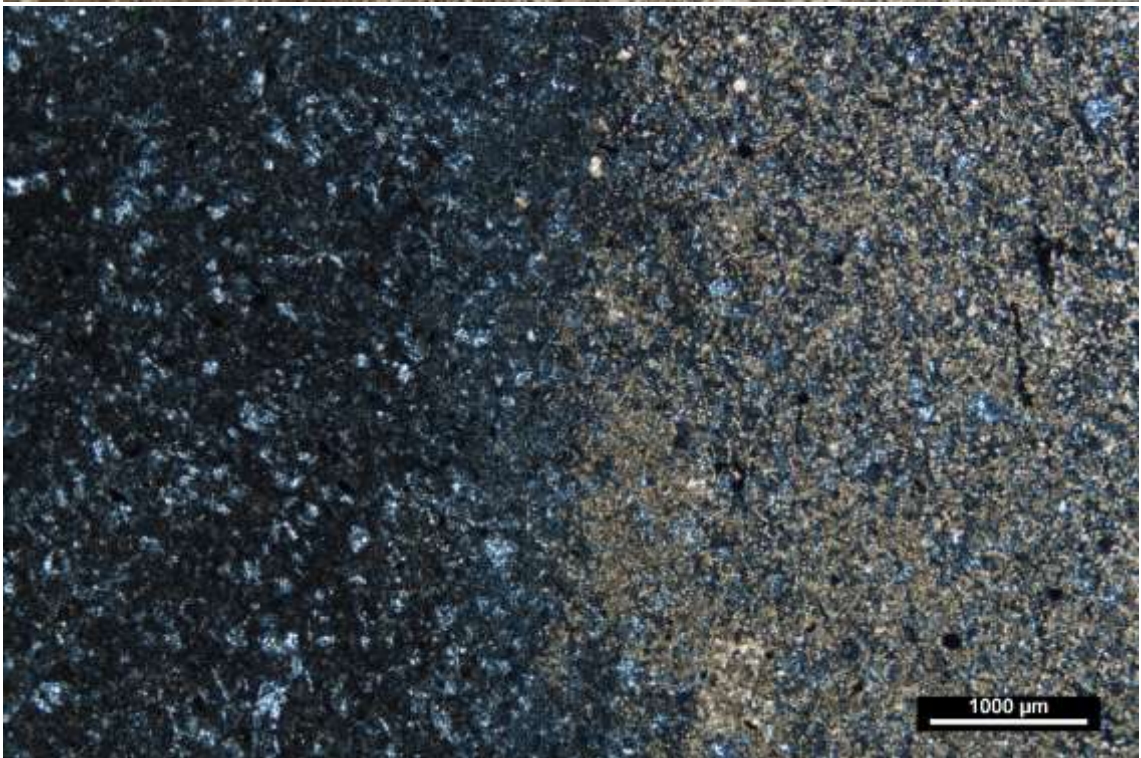


SP24\_CSV\_002 (PPL and XPL)



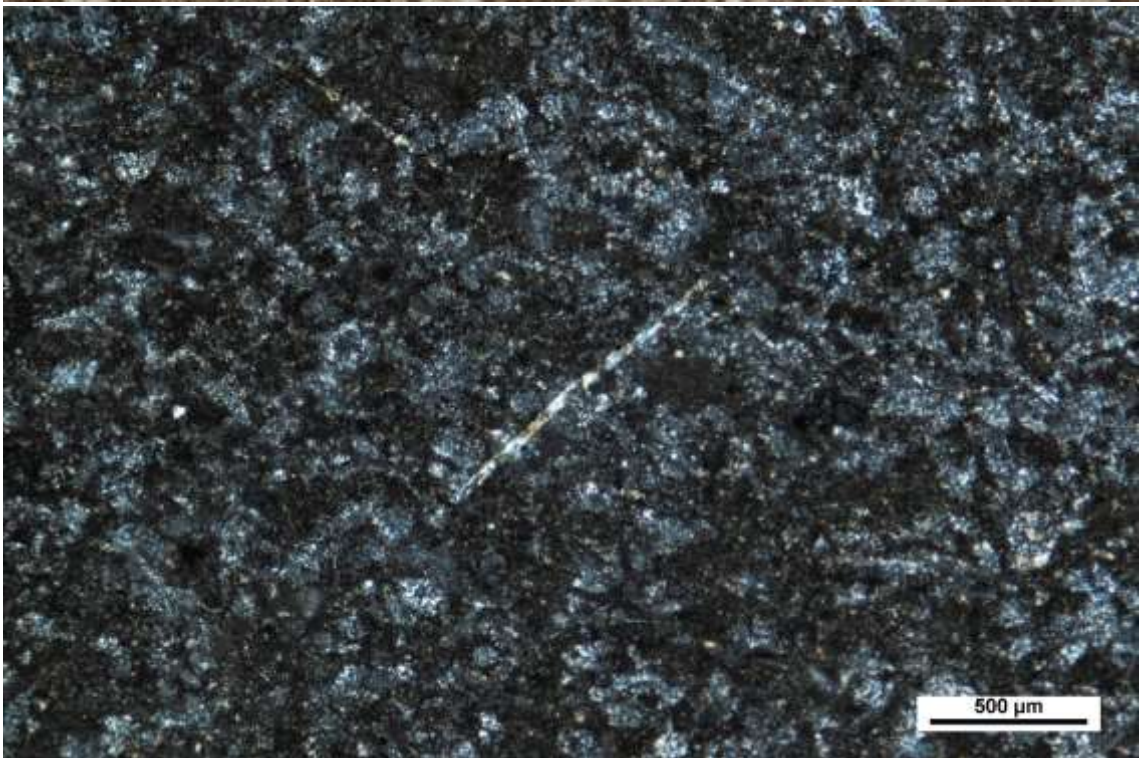
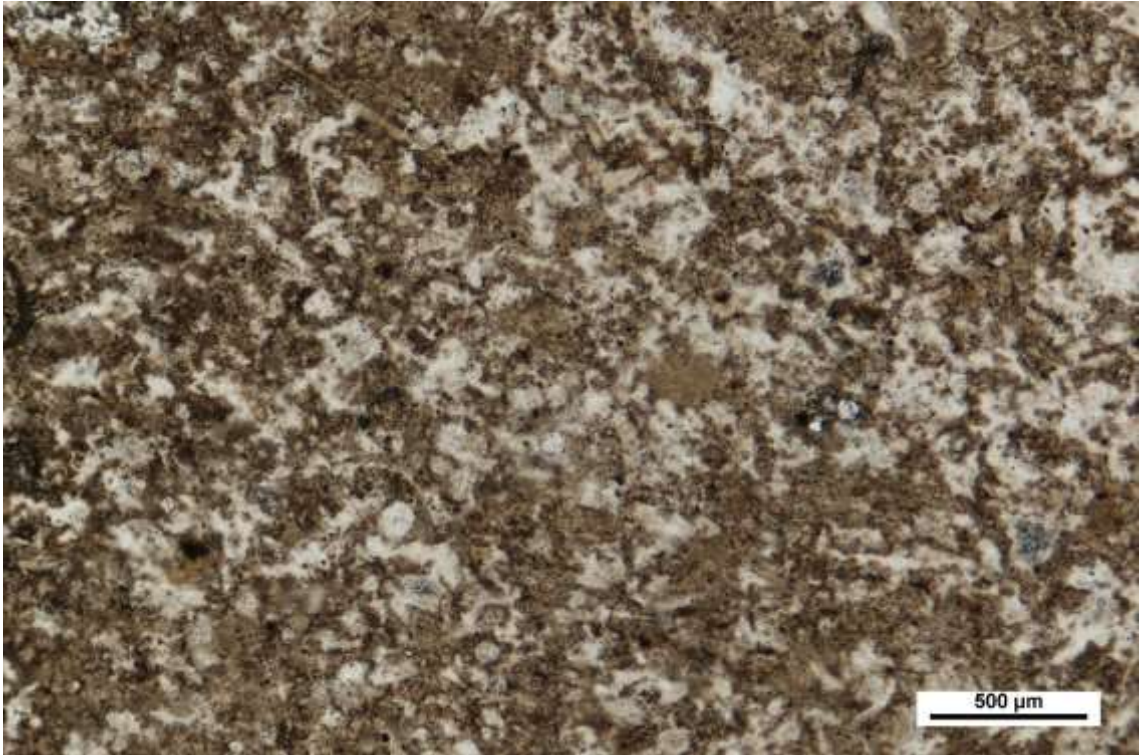
SP24\_CSV\_003 (PPL and XPL)





SP24\_CSV\_004 (PPL and XPL)





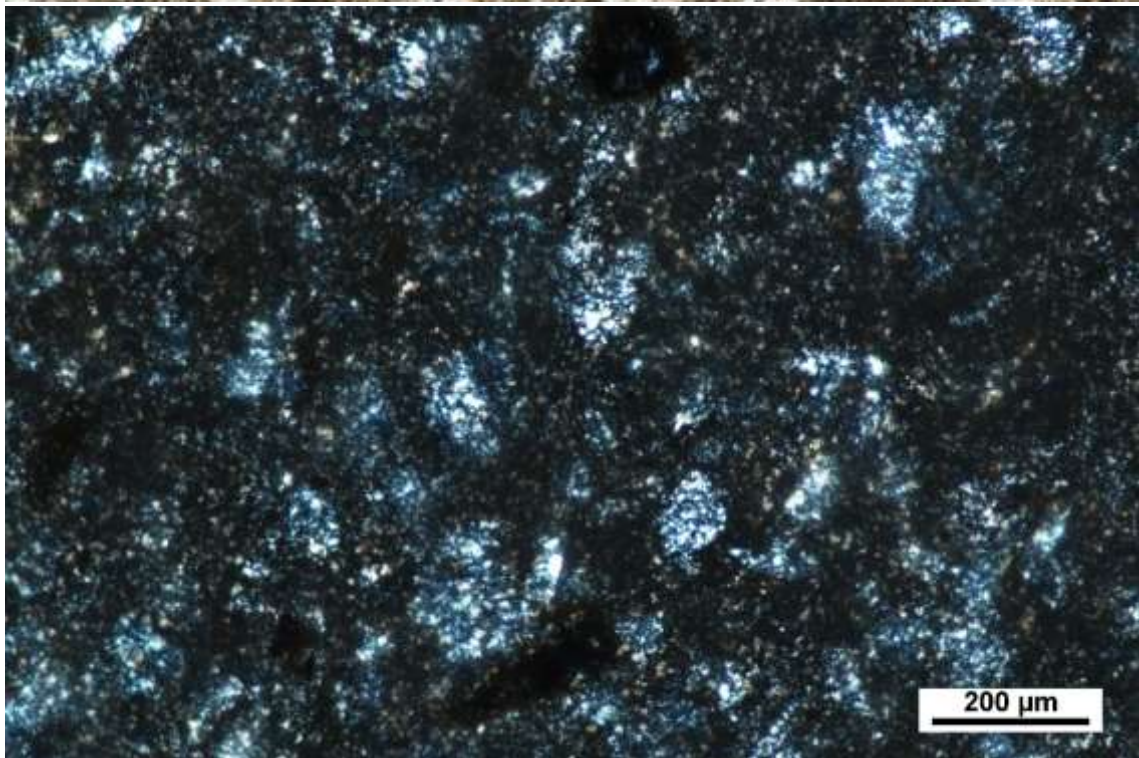
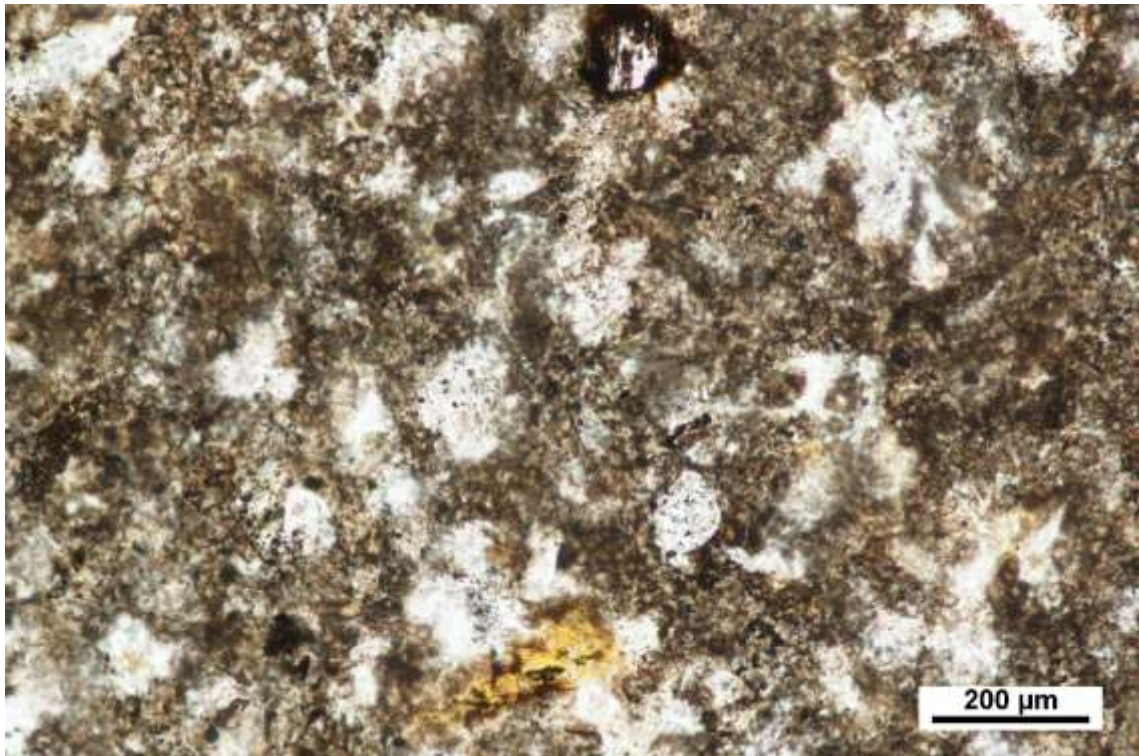
SP24\_CSV\_005 (PPL and XPL)





SP24\_CSV\_006 (PPL and XPL)





SP24\_CSV\_007 (PPL and XPL)



Macroscopic photos

