

## Sample ID and provenance

Sample ID: RT82

Lithology: Chert

Collection: LusoLit

Outcrop: Unknown (PBX)

Unit/facies: Unknown

Thinsection: Yes

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## Macroscopic description

### ❖ COLOR

Color distribution is Mixed sharp. The colors are Black (2.5Y 2.5/1), Grayish brown (2.5Y 5/2) and Light gray (2.5Y 7/2).

### ❖ FABRIC

The luster is Shiny and the translucency ranges between Translucent and Sub-translucent. Light passes through at around 9.8 mm of thickness. The feel is Semi-smooth and the grain is Fine. The distribution is Uneven with a Gradual variation. Patterns are Spots (50-99%), which are Broad mottling, Splotched and Speckling, with an Uneven distribution.

### ❖ INCLUSIONS AND FOSSIL CONTENT

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### ❖ CORTEX

No cortex.

### ❖ QUALITY

The fracture type is Conchoidal and there are Fractures. The knapping quality is Good.

### ❖ OBSERVATION

The sample seems to be differentially patinated (white), with dense speckling.

## Outcrop description

### ❖ OUTCROP CHARACTERISTICS

**Type of outcrop:** Isolated find

**Visibility:** -

**Accessibility:** -

**State of site:** -

### ❖ CHERT NODULES/BEDS DESCRIPTION

**Type of chert nodule:** -

**Sample variability:** -

**Frequency:** -

**Nodule description:** -

### ❖ SHORT DESCRIPTION

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## Petrography analysis form

### ❖ TEXTURAL COMPOSITION

**Texture:** Mudstone

**Microstructure:** Massive

### ❖ COMPOSITION

ORTHOCEM	Type	%	Description
MiC quartz (gr)	SE	99	-
Chalcedony (fb)	SE	1	Replacing fossils in the chert.

ALLOCEM	Freq	Description
Oxide grains	Common	-
Oxide patina	Uncommon	-

BIOCLASTS	Freq	Description
Unidentifiable fossils (ghosts)	Uncommon	The fossils are poorly preserved, without distinguishable morphologies.
Sponge spicules (?)	Uncommon	Some unidentifiable fossils have morphological similarities to sponge spicules but cannot be confirmed.

### ❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): <1

Porosity type: -

Other sedimentary structures: -

## Observations

❖ -

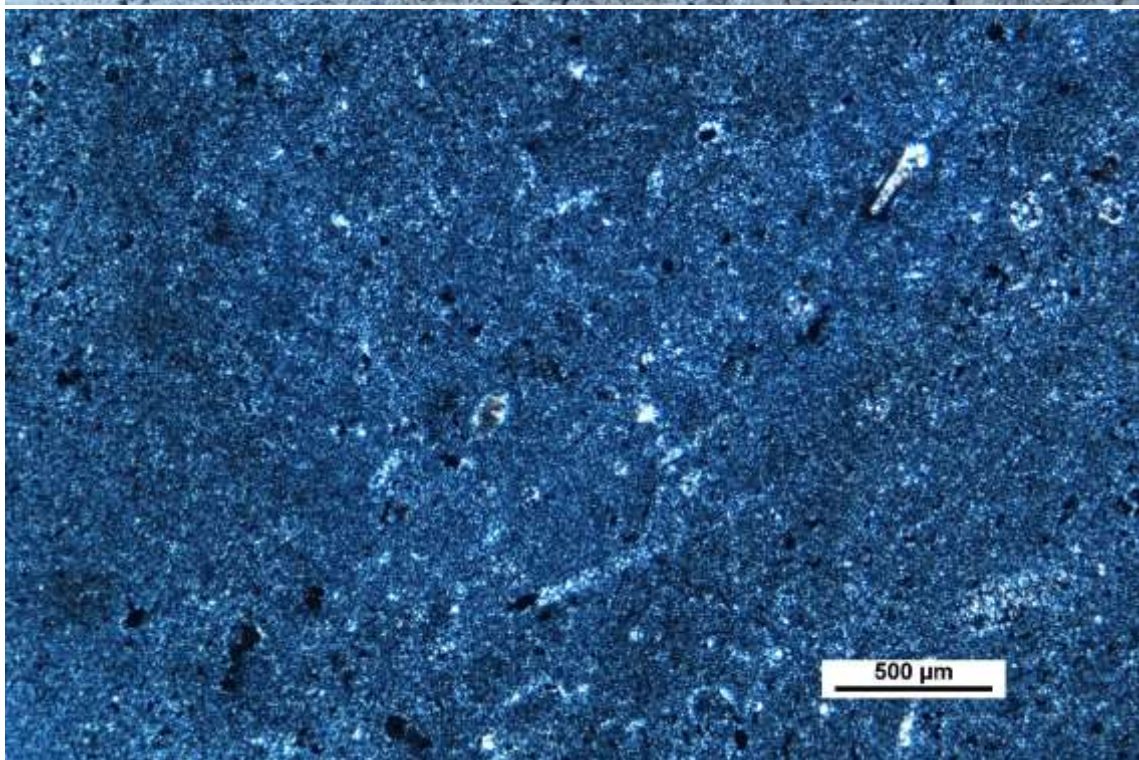
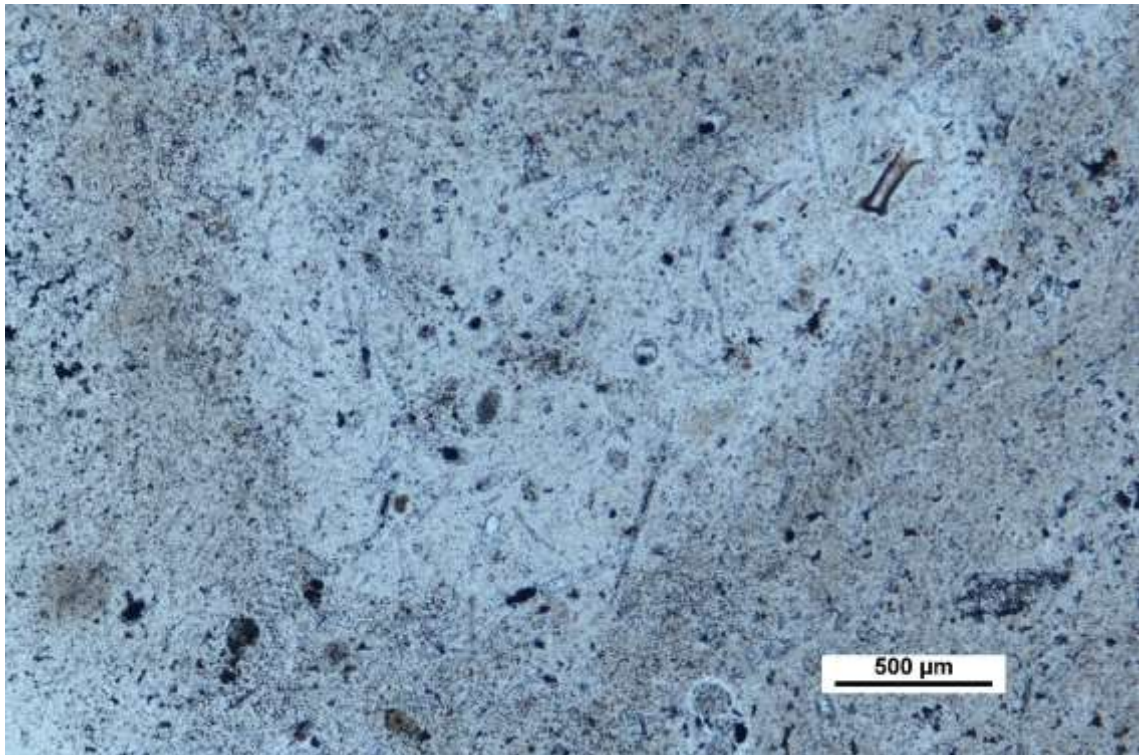
## Analysis information

- ❖ ANALYST: JB
- ❖ DATE: 06.07.2022
- ❖ EQUIPMENT: Nikon DS-Ri2

## Photos

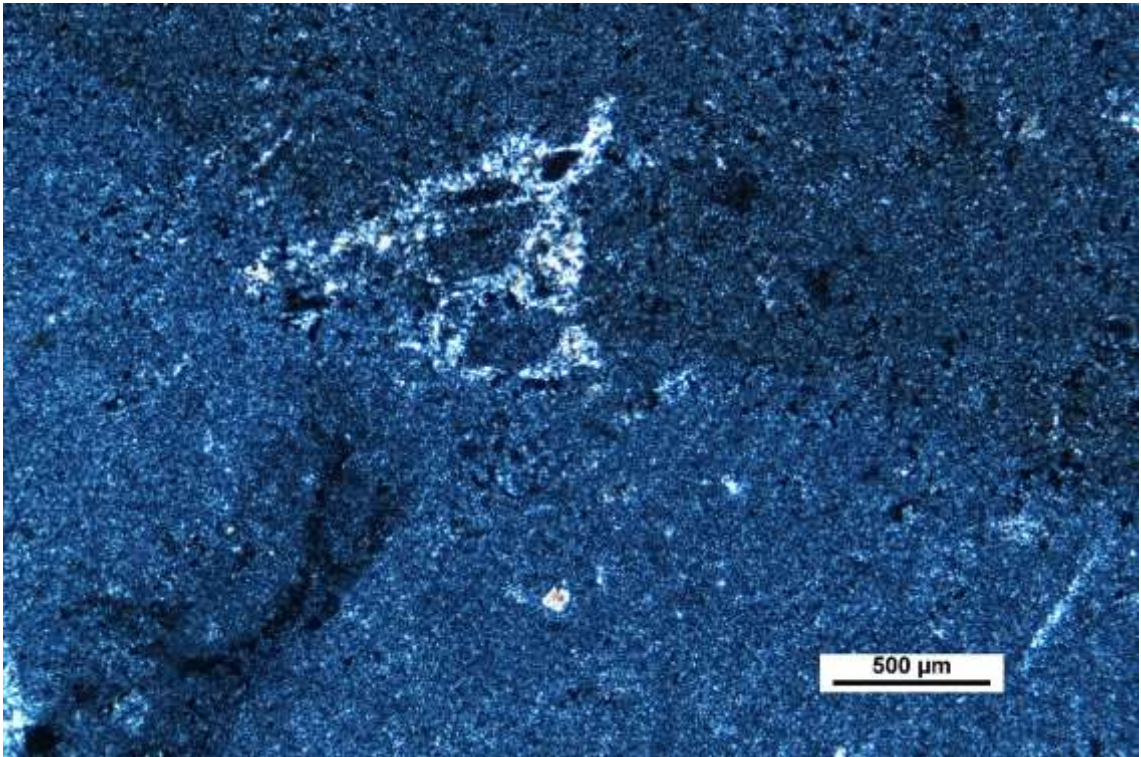
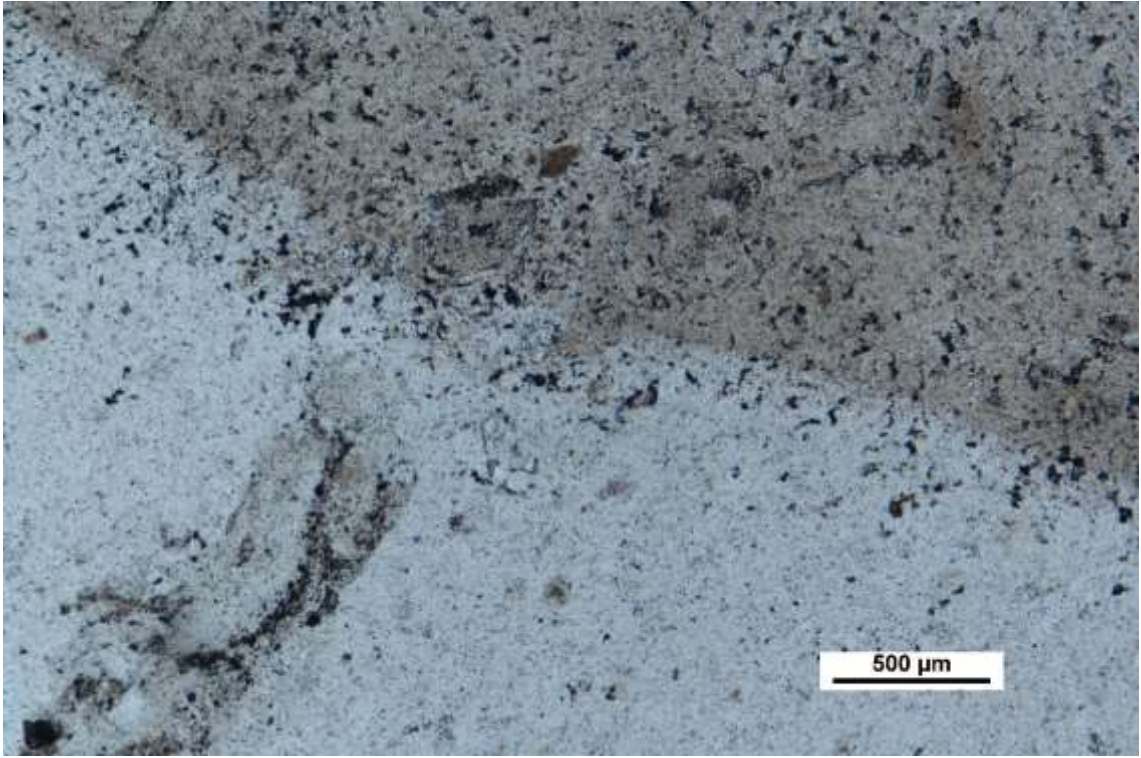
Photo ID	Aug.	Description
RT82_001	4x	General view of the chert with unidentifiable fossils. There is a visible burrow-like structure.
RT82_002	4x	Contact between two areas of the chert, characterized by a different color, and an unidentified fossil in the center.
RT82_003	10x	Detail of an unidentifiable fossil ghost, replaced by two generations of chalcedony and opaque minerals.

Petrography photos



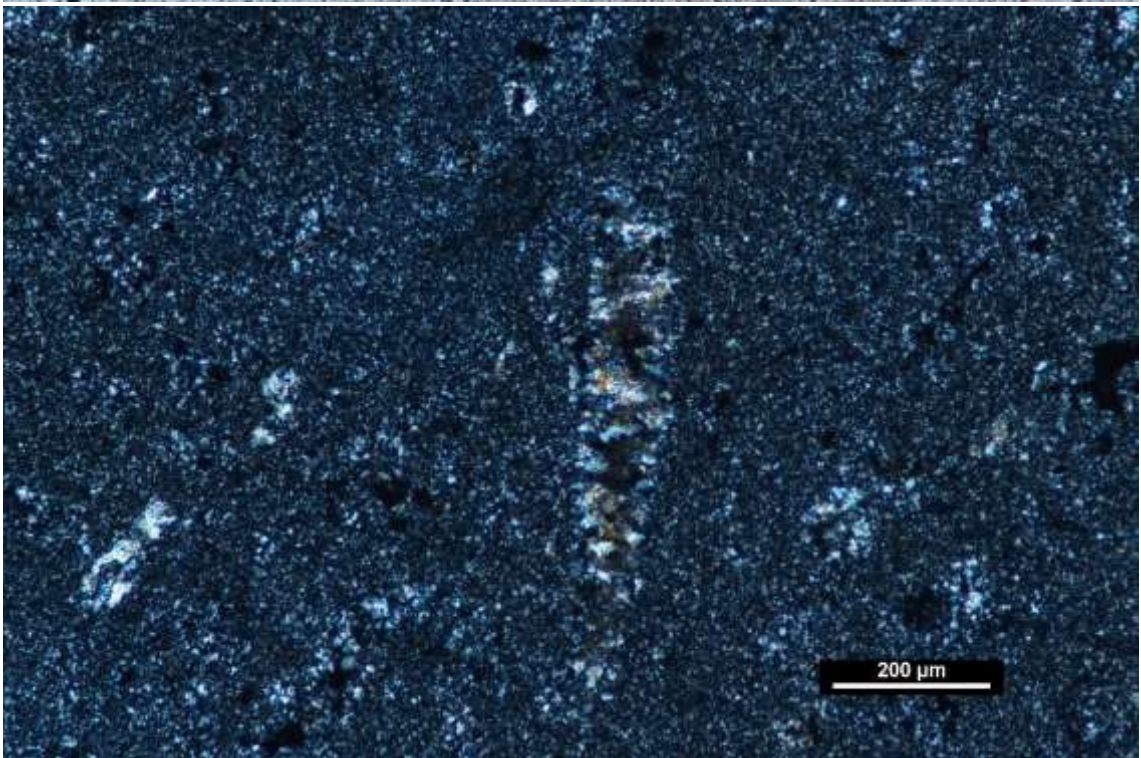
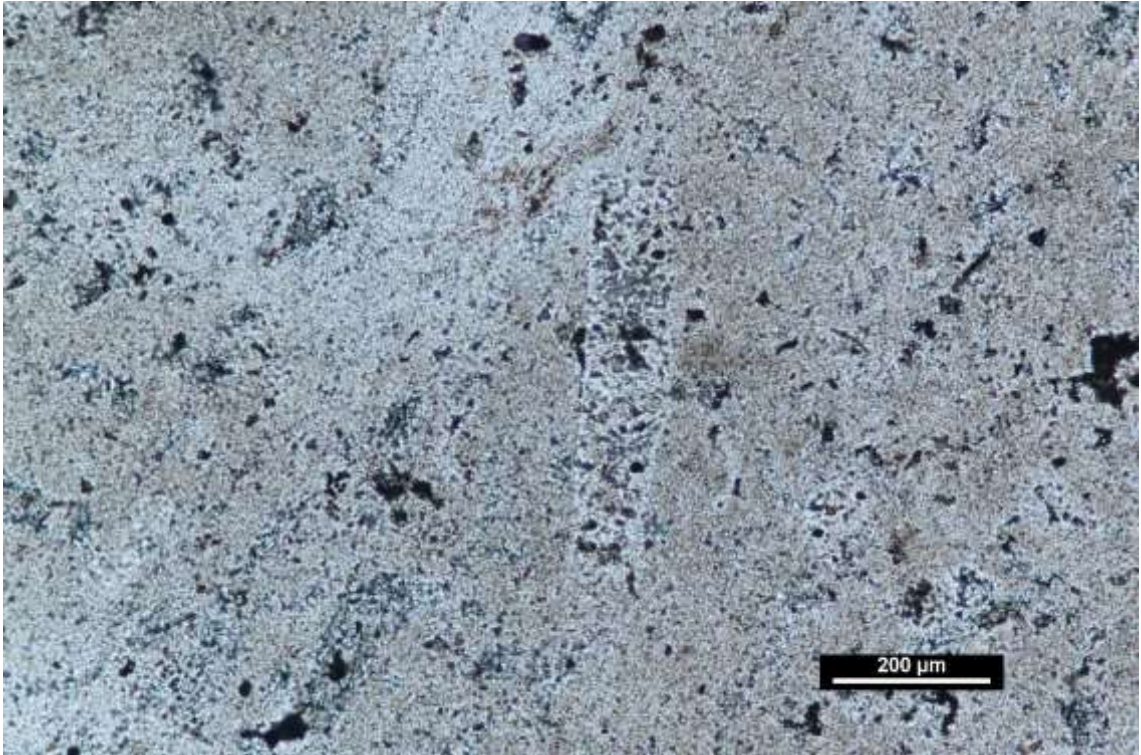
RT87\_001 (PPL and XPL)





RT87\_002 (PPL and XPL)





RT87\_003 (PPL and XPL)

Macroscopic photos





