



Sample ID: SP53_Gui Outcrop: Guilhim

Lithology: Chert **Unit/facies**: Middle Jurassic

Collection: LusoLit **Thinsection:** Yes

Macroscopic description

COLOR

The color distribution is Mix diffuse. The colors are Grayish pink (5R 8/2), Moderate pink (5R 7/4) and White.

FABRIC

The luster is Dull to Medium and the translucency is Opaque. The feel is Semismooth and the grain is Fine. The structure is Uneven with a Gradual variation. Patterns are Shaded and Spots (50-99%). The spots are Speckling and Flecks with an Even distribution.

❖ INCLUSIONS AND FOSSIL CONTENT

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CORTEX

There is not real cortex present. Instead, there is an alteration surface due alterations to the chert. These alterations are at the fabric and color level.

QUALITY

The fracture type is Unknown (possibly Conchoidal, but impossible to test due to the size of the sample) and the surface is apparently Homogeneous. The knapping quality is Unknown.

OBSERVATION

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Outcrop description

OUTCROP CHARACTERISTICS

Type of outcrop: Secondary

Visibility: Good

Accessibility: Moderate

State of site: -

CHERT NODULES/BEDS DESCRIPTION

Type of chert nodule: Nodule

Sample variability: Variable

Frequency: Sporadic

Nodule description: Angular and altered nodules, around 5cm width

❖ SHORT DESCRIPTION

The cherts can be found at the bottom of a slope, although very altered which seems to show these were transported possibly from the top of the hill by water.

Petrography analysis form

❖ TEXTURAL COMPOSITION

Texture: Wackestone

Microstructure: Massive

COMPOSITION

ORTHOCHEM	Туре	%	Description
MiC quartz (gr)	SE	95	-
Chalcedony (fb)	SE	5	Replacing fossils.

ALLOCHEM	Freq	Description
Oxide grains	Uncommon	-
Oxide patina	Uncommon	-

BIOCLASTS	Freq	Description
Unidentifiable fossils (ghosts)	Frequent	-
Echinoderm	Rare	Echinoderm spine (cross section) poorly preserved and replaced by chalcedony.

(longitudinal) Uncommon se	Echinoderm spines (longitudinal ection) poorly preserved and replaced by chalcedony.
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❖ OTHER TEXTURAL CHARACTERISTICS

Total porosity (%): 5

Porosity type: Vuggy

Other sedimentary structures: Other

Observations

There may be a sedimentary structure within the chert which has not been properly identified. It is characterized by a first generation of microcrystalline quartz and oxides, and filled with chalcedony and microcrystalline quartz without concentration of oxides. It may also be a fossil which has been replaced by chalcedony and microcrystalline quartz.

Analysis information

❖ ANALYST: JB

DATE: 06.24.2022

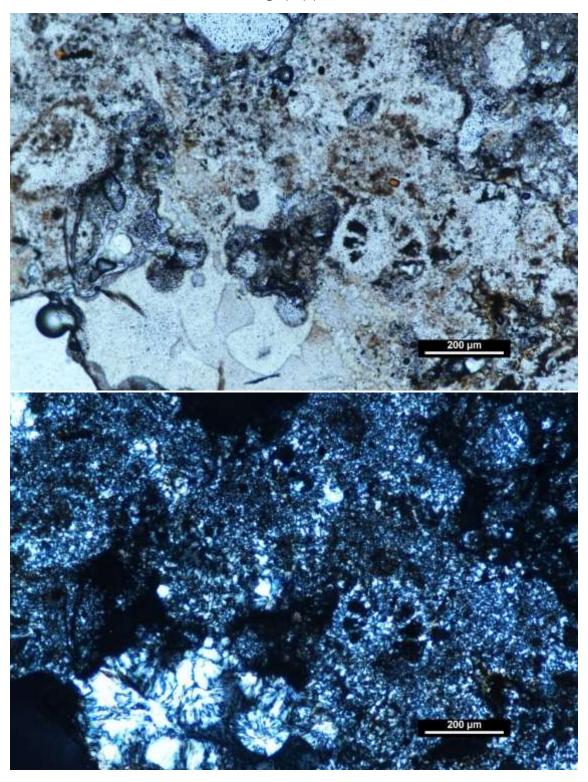
EQUIPMENT: Nikon DS-Ri2

Photos

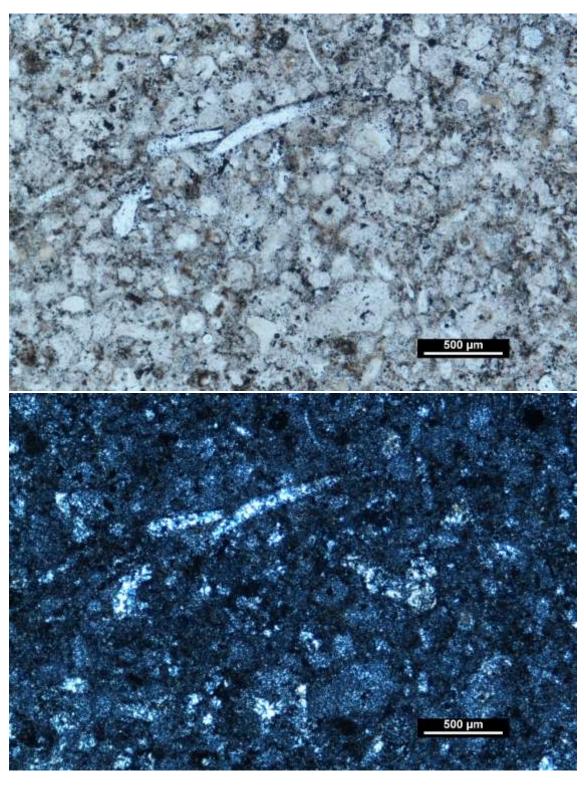
Photo ID	Aug.	Description
SP53_001	10x	Detail of a poorly preserved Echinoderm spine (cross section), replaced by chalcedony.
SP53_002	4x	General view of the thin section with unidentifiable fossils replaced by chalcedony.
SP53_003	4x	General view of the thin section with unidentifiable fossils replaced by chalcedony.

SP53_004	4x	General view of several unidentifiable fossils and concentration of oxides.
SP53_005	10x	Detailed view of a possible sedimentary structure within the chert.

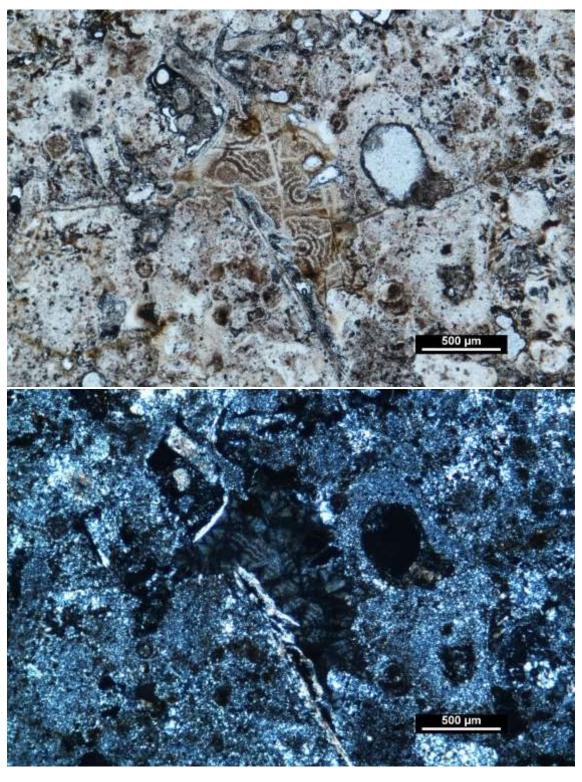
Petrography photos



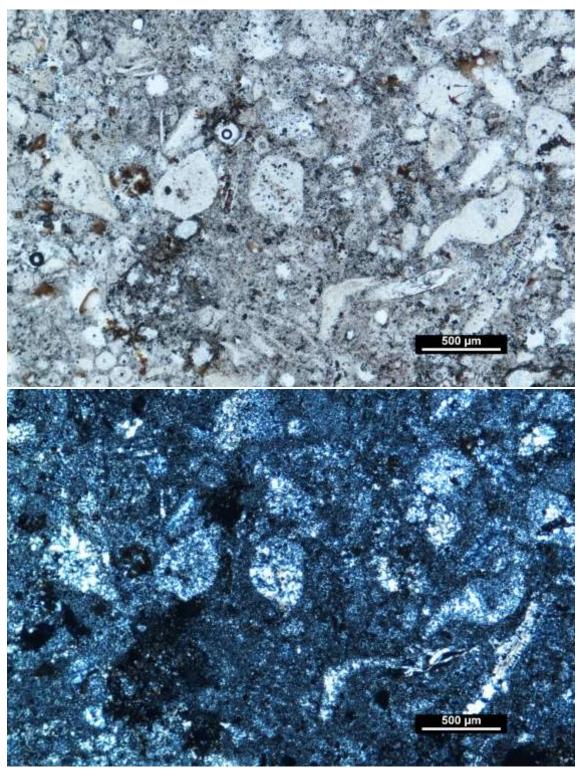
SP53_Gui_001 (PPL and XPL)



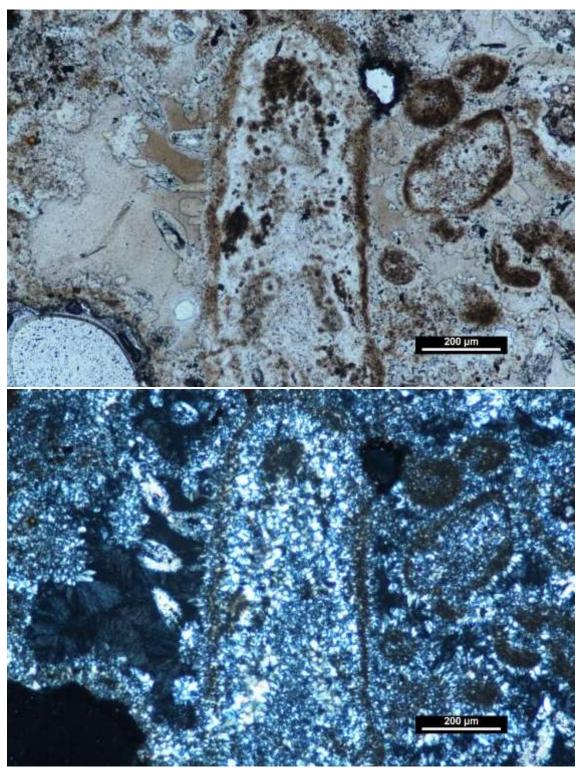
SP53_Gui_002 (PPL and XPL)



SP53_Gui_003 (PPL and XPL)



SP53_Gui_004 (PPL and XPL)



SP53_Gui_005 (PPL and XPL)

Macroscopic photos

