

THIN SECTION LABEL ID: **368-U1504A-15R-1-W 21/23-TSB-TS55**

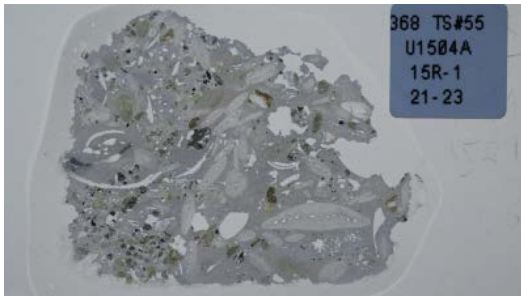
Thin section no.: 55

Observer: RMK, CAZ

Unit/subunit: II

Thin section summary: Limestone consisting of large benthic foraminifers (Nummulites and Assilina species) and sand sized angular to rounded metamorphic rock fragments (mostly epidote and cataclastic quartz) cemented with calcite + clay matrix.

Plane-polarized: 41879081



Cross-polarized: 41879131



THIN SECTION LABEL ID: **368-U1504A-15R-1-W 21/23-TSB-TS63**

Thin section no.: 63

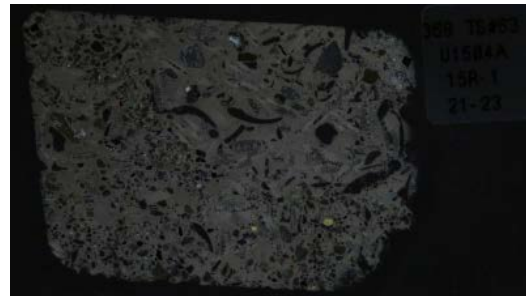
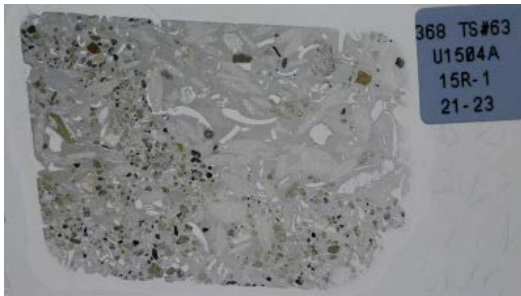
Observer: RMK, CAZ

Unit/subunit: II

Thin section summary: Limestone consisting of large benthic foraminifers (Nummulites and Assilina species) and sand sized angular to rounded metamorphic rock fragments (mostly epidote and cataclastic quartz) cemented with calcite + clay matrix.

Plane-polarized: 42193111

Cross-polarized: 42193131



THIN SECTION LABEL ID: **368-U1504A-16R-1-W 76/78-TSB-TS56**

Thin section no.: 56

Observer: SMS, RMK

Unit/subunit: IIIA/1a

Thin section summary: Medium- to finegrained foliated schist with quartz, chlorite, epidote and zeolite. Flaser-like alternating bands of quartz, chlorite and fine-grained phases where epidote is preferentially enriched, with darker bands of fine-grained phyllosilicates(?). Foliation is weaker than in other samples, showing possibly evidence of two generations perpendicular to each other, and increasing disintegration of original banding. Also, the proportion of quartz-rich bands is minor compared to other samples, affecting the bulk rheology and therefore microstructure of this sample. Vein filled with finegrained chlorite, quartz and zeolite parallel to banding.

Plane-polarized: 41833591



Cross-polarized: 41833611



THIN SECTION LABEL ID: **368-U1504A-17R-2-W 17/19-TSB-TS54**

Thin section no.: 54

Observer: SMS, RMK

Unit/subunit: IIIA/1a

Thin section summary: Medium- to finegrained foliated schist with quartz, chlorite and epidote. Flaser-like alternating bands of quartz, chlorite and fine-grained phases where epidote is preferentially enriched, with darker bands of fine-grained phyllosilicates(?). Minor amounts of epidote disseminated in quartz-rich bands and lenses. Remnant of brittle deformed quartz-rich clast in upper right corner.

Plane-polarized: 41825951



Cross-polarized: 41825971



THIN SECTION LABEL ID: **368-U1504A-19R-1-W 12/16-TSB-TS57**

Thin section no.: 57

Observer: SMS, RMK

Unit/subunit: IIIA/1a

Thin section summary: Medium- to finegrained foliated schist with quartz, chlorite and epidote. Flaser-like alternating bands of quartz, chlorite and fine-grained phases where epidote is preferentially enriched, with darker bands of fine-grained phyllosilicates(?). Minor amounts of epidote disseminated in quartz-rich bands and lenses. Subangular clast of 2 cm diameter consisting of very-finegrained chlorite, phyllosilicates with disseminated epidote that is cross-cut by crystal-plastically deformed quartz-veins.

Plane-polarized: 41833631



Cross-polarized: 41833651

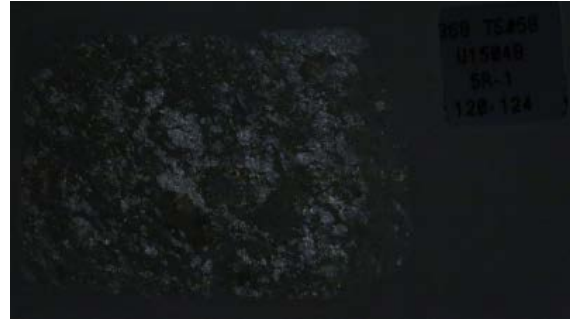


THIN SECTION LABEL ID: **368-U1504B-5R-1-W 120/124-TSB-TS58** Thin section no.: 58
 Observer: SMS Unit/subunit: IIIA/1a
 Thin section summary: Medium- to fine-grained foliated schist with quartz, chlorite, epidote, smectite and rare clinopyroxene (?) crystals. Foliation well developed. Bands of chlorite and dark microcrystalline phyllosilicates, alternating with lenses of microcrystalline quartz are impregnated with disseminated epidote preferentially enriched in chlorite-smectite bands. Two residual euhedral, mm-sized clinopyroxene crystals, partially replaced by chlorite/serpentine. Presumably mafic magmatic protolith.

Plane-polarized: 42169231



Cross-polarized: 42169251



Metamorphic Petrology

Lithology: epidote-chlorite schist

Contact Type:

Texture: foliated

Grain Size Distribution: inequigranular

THIN SECTION LABEL ID: **368-U1504B-5R-2-W 47/50-TSB-TS59** Thin section no.: 59
 Observer: SMS Unit/subunit: IIIA/1a
 Thin section summary: Coarse-grained foliated schist with chlorite, epidote, smectite, quartz, calcite and rare clinopyroxene (?) and possibly orthopyroxene (?) crystal. Abundant enclaves of fine-grained quartz (granofels) alternating with partially folded bands of chlorite and phyllosilicates. Epidote either disseminated or also enriched in epidosite lenses. Two euhedral, mm-sized clinopyroxene (?) crystals, dissected by calcite veins. Presumably mafic magmatic protolith.

Plane-polarized: 42169271



Cross-polarized: 42169291

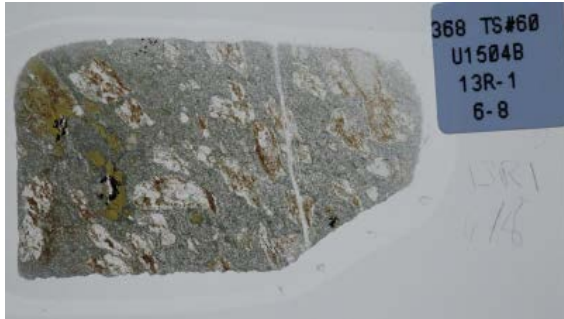


Metamorphic Petrology

Lithology:	epidote-chlorite schist	Contact Type:	
Texture:	foliated	Grain Size Distribution:	inequigranular

THIN SECTION LABEL ID: **368-U1504B-13R-1-W 6/8-TSB-TS60** Thin section no.: 60
 Observer: SMS Unit/subunit: IIB/1b
 Thin section summary: Coarse-grained foliated schist with quartz, calcite, epidote, chlorite smectite, zeolite and phyllosilicates. and Fe-Ti-oxides and -hydroxides. Millimeter-sized, large subrounded and elongate 'clasts' embedded into microcrystalline matrix of quartz and phyllosilicates. Clasts are completely replaced by secondary minerals (mostly quartz or smectite) may or may not have been phenocrysts. Possible remnant of plagioclase in one of the 'clasts' point to a possible plagioclase phenocrysts. Cross-cutting quartz-calcite veins. Presumably mafic magmatic protolith.

Plane-polarized: 42182511



Cross-polarized: 42182531



Metamorphic Petrology

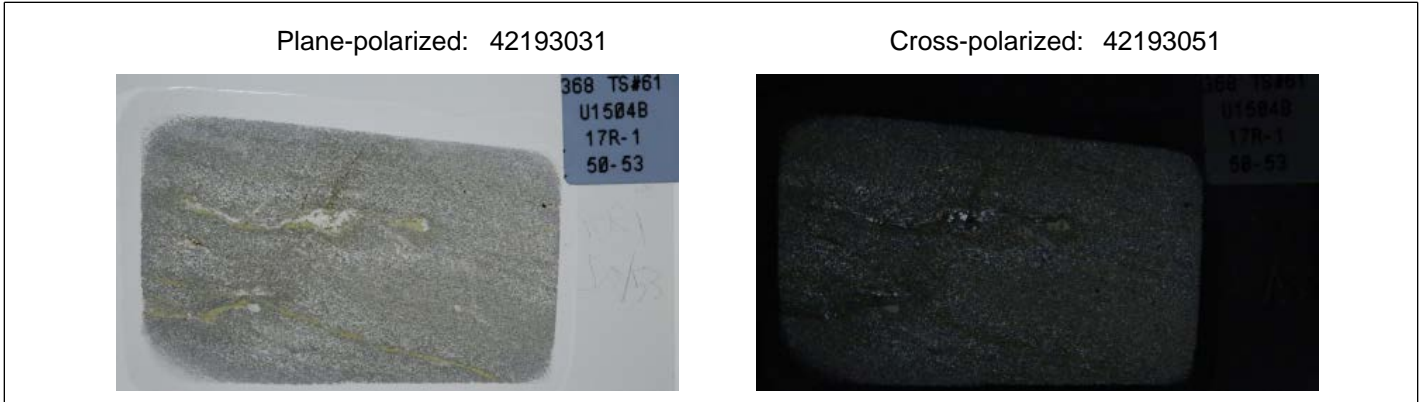
Lithology: calc-silicate schist

Contact Type:

Texture: foliated

Grain Size Distribution: inequigranular

THIN SECTION LABEL ID:	368-U1504B-17R-1-W 50/53-TSB-TS61	Thin section no.:	61
Observer:	FMZ, SMS	Unit/subunit:	IIIB/1b
Thin section summary:	Microcrystalline schist consisting of mainly quartz, epidote, phyllosilicates and chlorite with calcite and minor Fe-oxide (and hydroxide). Mostly equi-granular with rare larger grains of epidote. Crosscut by thin quartz-chlorite-calcite veins and minor larger epidote crystals. Chlorite frequently further modified and appearing brownish-yellow in incident light.		



Metamorphic Petrology

Lithology:	epidote schist	Contact Type:	
Texture:	foliated	Grain Size Distribution:	inequigranular

THIN SECTION LABEL ID: **368-U1504B-19R-1-W 38/40-TSB-TS62** Thin section no.: 62
 Observer: FMZ, SMS Unit/subunit: IIB/1b
 Thin section summary: Fine-grained to microcrystalline schist composed of quartz, epidote, chlorite and phyllosilicates and minor calcite and zeolite. Foliation is comparatively moderate. Abundant lenses, aggregates ('clasts') of variable composition of chlorite (?), Fe-hydroxide (?) and minor epidote, surrounded by quartz. Chlorite often with yellow colors in transmitted light, suggesting secondary transformation. Original composition of clast cannot be verified, and may include both rock fragments and possibly former phenocrysts.

Plane-polarized: 42193071



Cross-polarized: 42193091



Metamorphic Petrology

Lithology: calc-silicate schist

Contact Type:

Texture: foliated

Grain Size Distribution: inequigranular