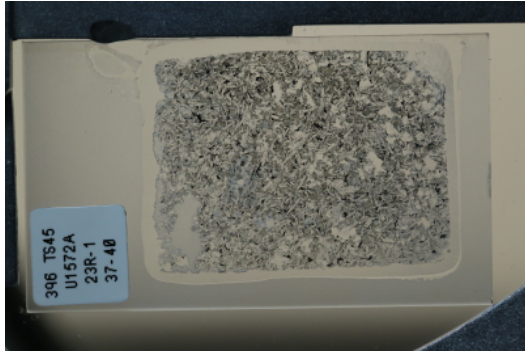
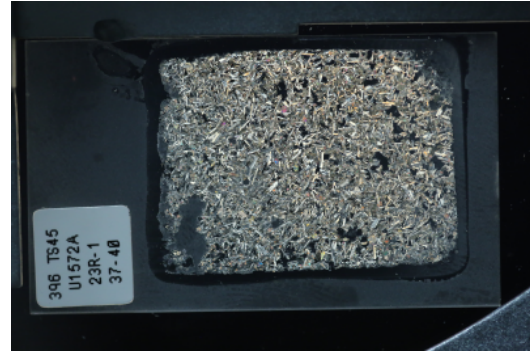


THIN SECTION LABEL ID: **396-U1572A-23R-1-W 37/40-TSB-TS45** Thin section no.:  
 Observer: Sarah Lambart Piece no.:  
 Thin section thickness: 30 Unit/subunit:  
 Thin section summary: Basaltic andesite lava flow. The groundmass is composed of medium grain euhedral plagioclase (50%), anhedral augite (30%) and 5% subhedral oxide, with 15% angular vesicles, mostly empty.

Plane-polarized: 59915591



Cross-polarized: 59915711



### Igneous Petrology

**Lithology:** basaltic andesite lava flow **Groundmass grain size (avg.):** medium-grained  
**Texture:** holocrystalline **Grain size distribution:** seriate

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	50				5	subhedral	elongate	
Clinopyroxene	35				4	anhedral	equant	
Fe-Ti oxide	5				0.4	subhedral	elongate	

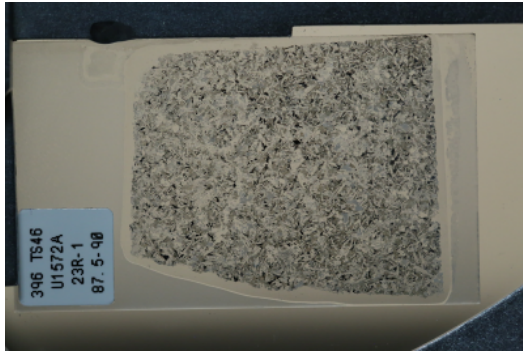
### Alteration

**Alteration intensity:** moderate **Total alteration (%):** **Recrystallization extent:** weak

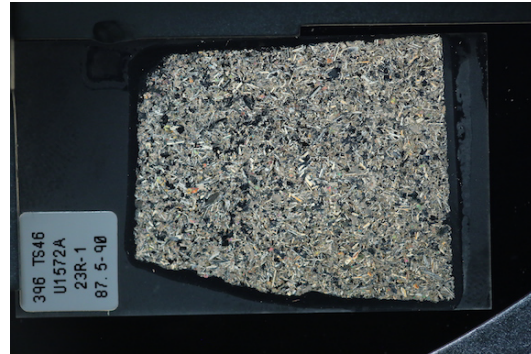
Alteration mineral	Percent	Comments
Calcium carbonate	10	
Celadonite	3	
Clay, brown	30	

THIN SECTION LABEL ID: **396-U1572A-23R-1-W 89/92-TSB-TS46** Thin section no.:  
 Observer: Sarah Lambart Piece no.:  
 Thin section thickness: 30 Unit/subunit:  
 Thin section summary: Basaltic andesite lava flow composed of medium grain euhedral plagioclase (50%), anhedral augite (30%) and 5% subhedral oxide, with 15% angular vesicles, mostly empty. The groundmass is mostly recrystallized into carbonate.

Plane-polarized: 59915781



Cross-polarized: 59915731



## Igneous Petrology

**Lithology:** basaltic andesite lava flow **Groundmass grain size (avg.):** medium-grained  
**Texture:** holocrystalline **Grain size distribution:** equigranular

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	30				4	euhedral	elongate	
Clinopyroxene	20				4	anhedral	equant	
Fe-Ti oxide	5				0.4	subhedral	elongate	

## Alteration

**Alteration intensity:** high **Total alteration (%):** **Recrystallization extent:** strong

Alteration mineral	Percent	Comments
Calcium carbonate	40	
Clay, brown	15	

THIN SECTION LABEL ID: **396-U1572A-24R-4-W 47/49-TSB-TS47** Thin section no.:  
 Observer: Sarah Lambart Piece no.:  
 Thin section thickness: 30 Unit/subunit:  
 Thin section summary: Basaltic andesite lava flow. The groundmass is composed of medium grain euhedral plagioclase (30%), anhedral augite (40%) and 5% subhedral oxide, with 25% angular vesicles, mostly filled with saponite. Trace of native copper is observed associated with vesicles and oxides.



**Igneous Petrology**

**Lithology:** basaltic andesite lava flow **Groundmass grain size (avg.):** medium-grained  
**Texture:** holocrystalline **Grain size distribution:** seriate

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	30				4	euhedral	elongate	continuous zoning
Clinopyroxene	40				4	anhedral	equant	
Fe-Ti oxide	5				0.4	subhedral	elongate	

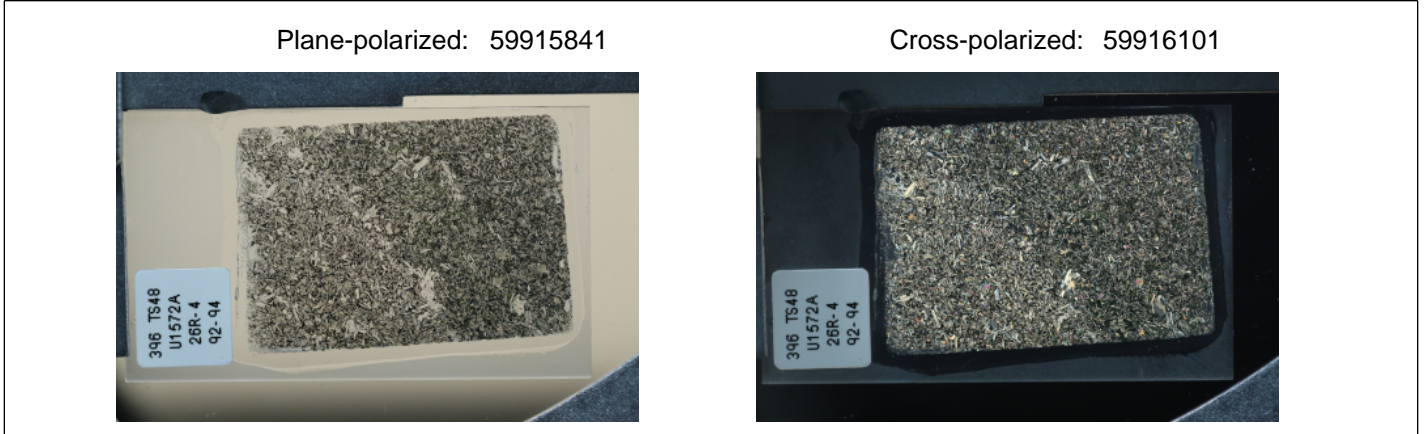
**Alteration**

**Alteration intensity:** moderate **Total alteration (%):** **Recrystallization extent:** weak

**Vesicle abundance (%):** 25 **Vesicle shape:** angular **Vesicle distribution:**  
**Vesicle min. size (mm):** **Vesicle max. size (mm):** 6 **Vesicle mode size (mm):** 0.7

Vesicle fill composition	Percent
Total vesicle fill	75
Clay, saponite	100

THIN SECTION LABEL ID: **396-U1572A-26R-4-W 92/94-TSB-TS48** Thin section no.:  
 Observer: Sarah Lambart Piece no.:  
 Thin section thickness: 30 Unit/subunit:  
 Thin section summary: Contact between basaltic andesite (domain 1) and phaneritic basalt (domain 2) lava flow composed of medium grain euhedral plagioclase (50%), anhedral augite (30%) and 5% subhedral oxide, with 15% angular vesicles, mostly empty. The groundmass is mostly recrystallized into carbonate.



**Igneous Petrology**  
 Lithology: basaltic andesite dike Groundmass grain size (avg.): fine-grained  
 Texture: holocrystalline Grain size distribution: equigranular

**Igneous Petrology**  
 Lithology: aphyric basalt lava flow Groundmass grain size (avg.): fine-grained  
 Texture: holocrystalline Grain size distribution: equigranular

**Alteration**

Alteration intensity: moderate Total alteration (%): Recrystallization extent: weak

Alteration mineral	Percent	Comments
Calcium carbonate	20	
Clay, brown	5	
Zeolite	15	