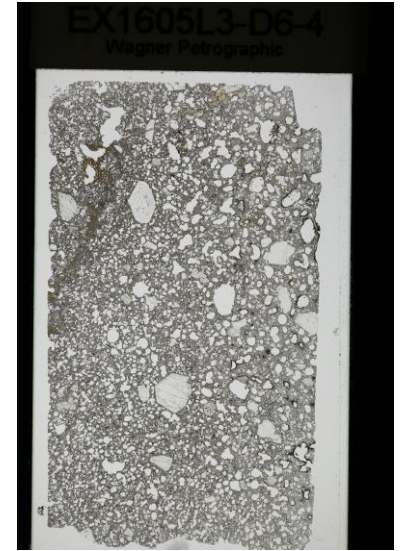


General Information			
Sample Name (IGSN)	EX1605L3-D6-4		
Describer	Kevin Konrad		
Sample Location	Supply Reef		
Lithology prefix	Plagioclase-Olivine-Clinopyroxene		
General Lithology	Basalt		
Texture 1	vesicular		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	90	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	10	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gi + Ms = 100%]	OK
Total Groundmass Present (%)	100	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	0	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A plagioclase and clinopyroxene phyric basalt. Sample is fine grained and highly vesicular. Some minor vesicle infill is present. The surface of the rock contains abundant bacterial mats.		
Thin Section Summary	A three phase basalt (olv, cpx and plagioclase) with a plagioclase rich groundmass. The phenocryst phases are all fresh. The plagioclase grains display sector zoning with amorphous zones. The olivine grains occasionally contain very large (~100um) melt inclusions. Groundmass consists of plagioclase, cpx, olivine and spinels and varies in size from cryptocrystalline to crystalline. Sample contains vesicles and fractures with some fractures being infilled with clay rich material. There are some fresh grains within the clay infill, likely not from the basalt.		

Whole Rock

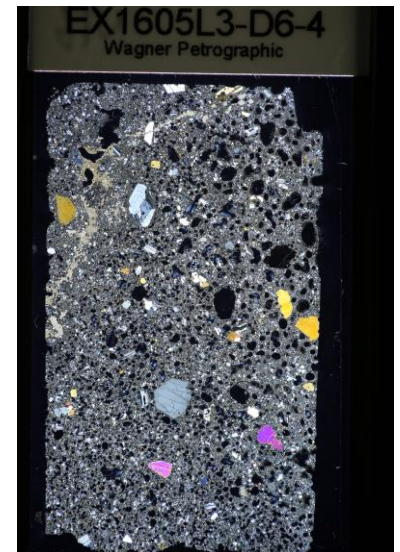


Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	5	8		5			15	67
Present (%) [Pr]	5	8		5			10	67
Replaced / Filled (%) [Rf]	0	0		0			5	0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.5	0.25		0.4			0.1	
Maximum Size (mm)	0.75	1		0.8			0.4	
Modal Size (mm)	0.5	0.6		0.5			0.4	
Shape	anhedral	subhedral		anhedral			subrounded	
Habit								
Zonation Type		Sector, albite						
Zonation Extent		common						
Exsolution Type								
Special Features								
Comments		Sector zoning doesn't show sharp zone contacts. Some spinel inclusions					One region has a carbonate rich clay infill of fracture and vesicles. Otherwise no infill	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gi]	MSTASIS [Ms]
Original (%) [Or]	5	10						85
Present (%) [Pr]	4	10						60
Replaced / Filled (%) [Rf]	1	0						25
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.01	0.01						
Maximum Size (mm)	0.05	0.05						
Modal Size (mm)	0.03	0.04						
Shape	subhedral	subhedral						
Habit								
Comments								Varies in grain size and alteration level throughout. Likely more altered than I claimed above.