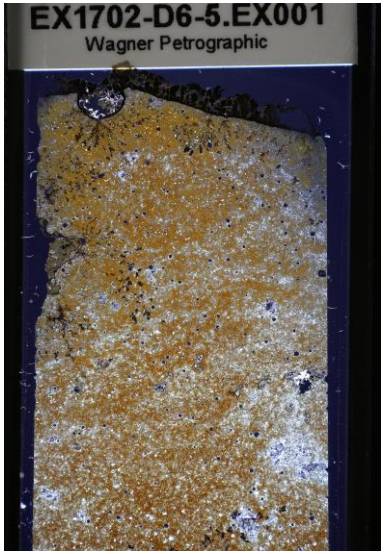
General Information			
Sample Name (IGSN)	EX1702-D6-5		
Describer	Kevin Konrad		
Sample Location	Utu Seamount		
Lithology prefix	plagioclase		
General Lithology	basalt		
Texture 1	Completely Altered		
Texture 2	Vesicular		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	10	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	90	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	0	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	100	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A brown rock (likely basalt) with patches of greyish grains (plagioclase?). Contains bands of secondary infil and a few large infilled vesicles.		
Thin Section Summary	A heavily altered basalt consisting of Fe-oxide altered glass matrix with small spongy plagioclase grains and some potential altered clinopyroxene (<0.1mm). Sample contains clusters (glomerocrysts?) of plagioclase, which get up to 0.5mm in length. Vesicles are typically unfilled but contain palagonite rims. A few shards of well formed calcite are found in one of the vesicles.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		5					10	85
Present (%) [Pr]		4					7	0
Replaced / Filled (%) [Rf]		1					3	85
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1					0.1	
Maximum Size (mm)		0.5					0.75	
Modal Size (mm)		0.2					0.4	
Shape		subhedral					Round-Irregular	
Habit								
Zonation Type		Albite twins						
Zonation Extent		some						
Exsolution Type								
Special Features								
Comments		Found in clusters					Contain palagonite rims	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		10		5				
Present (%) [Pr]		5		2				
Replaced / Filled (%) [Rf]		5		3				
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.01		0.01				
Maximum Size (mm)		0.1		0.1				
Modal Size (mm)		0.05		0.05				
Shape		subhedral		subhedral				
Habit								
Comments								