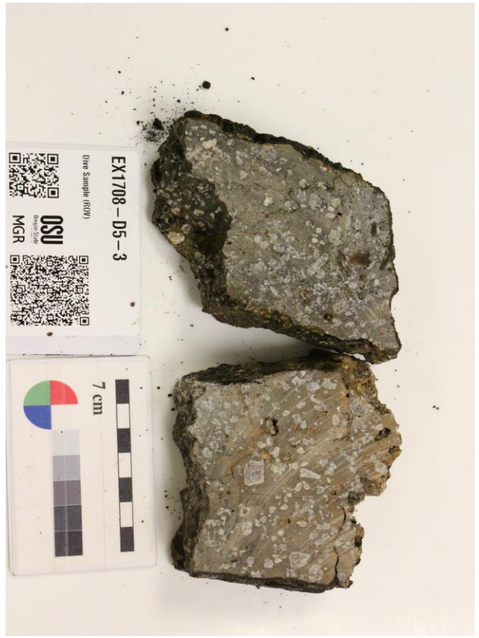
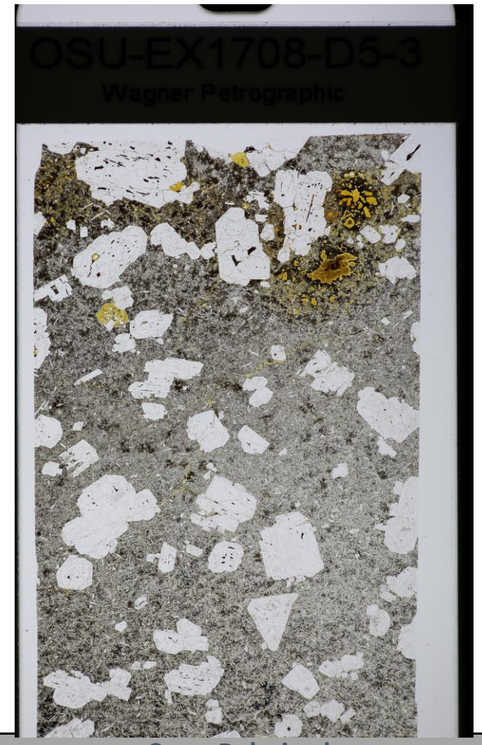
General Information			
Sample Name (IGSN)	EX1708-D5-3		
Describer	Kevin Konrad		
Sample Location	Gounod Seamount		
Lithology prefix	plagioclase		
General Lithology	basalt		
Texture 1	altered		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	40	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	60	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	30	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	70	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A highly phyric basalt with plagioclase and clinopyroxene phenocrysts. The groundmass is very fine grained and variably altered with sections of more or less Fe-oxide alteration. Sample contains a thin FeMn coat.		
Thin Section Summary	A plagioclase basalt with coarse plagioclase grains. The plagioclase contian frequent melt inclusions with one recrystallized to palagonite. Grains typically display spongy textures towards the outer rim of the crystal. Groundmass consists of plagioclase laths within a matrix of talc and altered glass. Sample contains some regions with palagonite filled vesicles and a greater degree of groundmass alteration (or just more Fe-oxide altered glass).		

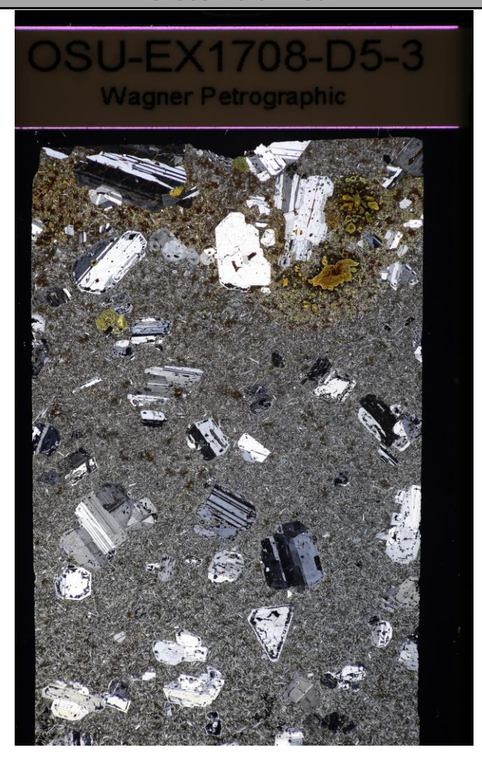
Whole Rock



Transmitted Light



Cross Polarized



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		25					5	
Present (%) [Pr]		20					0	
Replaced / Filled (%) [Rf]		5					5	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.75					0.25	
Maximum Size (mm)		6					1	
Modal Size (mm)		4					0.5	
Shape		subhedral					irregular	
Habit								
Zonation Type		albite twinning						
Zonation Extent		common						
Exsolution Type								
Special Features								
Comments		Spongy texures near rims. Melt inclusions common.					Palagonite infilling. Hard to tell if vesicle or replaced mineral	

GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		40						60
Present (%) [Pr]		30						0
Replaced / Filled (%) [Rf]		10						60
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1						
Maximum Size (mm)		0.25						
Modal Size (mm)		0.15						
Shape		subhedral						
Habit		elongated laths						
Comments								A altered mush of Fe-oxide and talc. Likely some spinel in there.