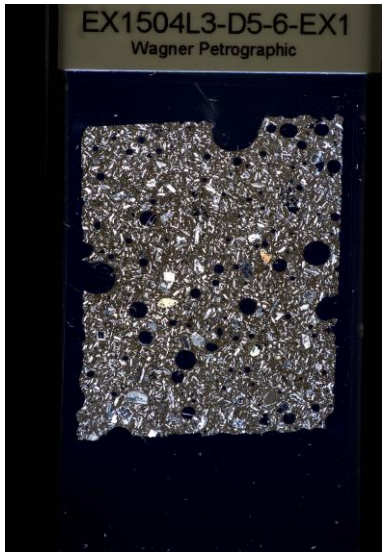
General Information			
Sample Name (IGSN)	EX1504L3-D5-6		
Describer	Kevin Konrad		
Sample Location	Swordfish Seamount		
Lithology prefix	plagioclase		
General Lithology	basalt		
Texture 1	Vesicular		
Texture 2	Altered		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	60	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	40	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	20	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	80	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A altered and fine grained basalt with ocasional plagioclase phenocrysts. Some large vesicles exist and lack infilling. A thin Mn coat is present.		
Thin Section Summary	A plagioclase rich basalt with both microcrysts (<0.4mm) and phenocrysts (0.8-1.6mm). The groundmass is primarily alteration with occasional plagioclase with spongy disequilibrium patterns. Two coarse clinopyroxene grains are found as well as a fine amphibole grain. Vesicles are circular with little to no alteration coating.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		8		2			15	75
Present (%) [Pr]		6		1			15	15
Replaced / Filled (%) [Rf]		2		1			0	60
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.8		0.8			0.5	
Maximum Size (mm)		1.6		1.2			1	
Modal Size (mm)		1		1			0.75	
Shape		subhedral		anhedral			rounded	
Habit		spongy						
Zonation Type		twinned						
Zonation Extent								
Exsolution Type								
Special Features								
Comments		Spongey textures		Partially recrystallized. Weak green pleochroism				

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		25						75
Present (%) [Pr]		15						0
Replaced / Filled (%) [Rf]		10						75
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.05						
Maximum Size (mm)		0.1						
Modal Size (mm)		0.1						
Shape		subhedral						
Habit		spongy						
Comments								Alteration, mostly glass.