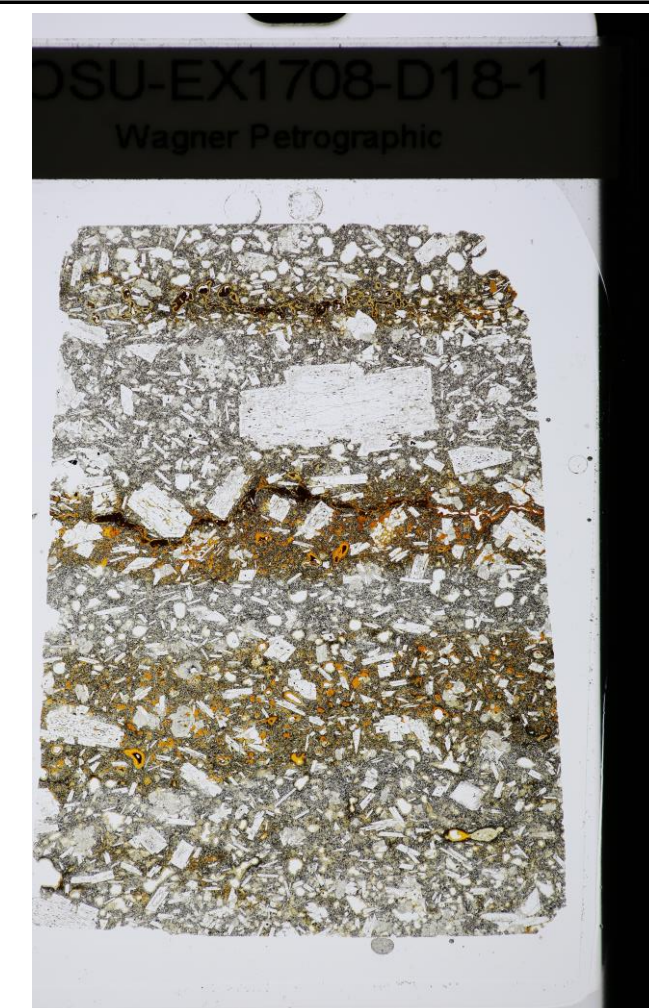
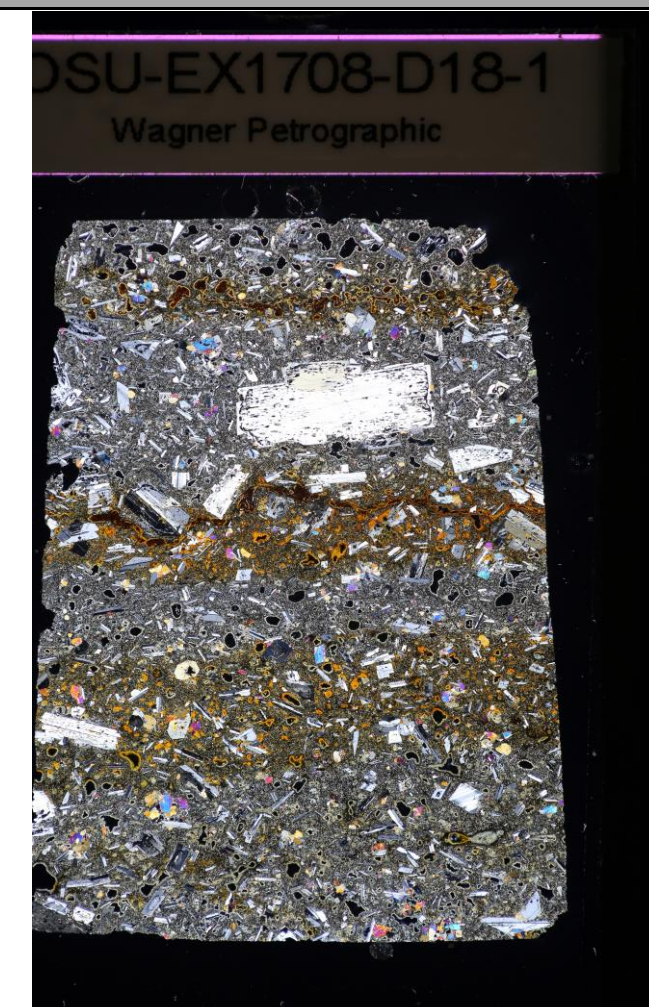


General Information			
Sample Name (IGSN)	EX1708-D18-1		
Describer	Kevin Konrad		
Sample Location	Schumann Seamount		
Lithology prefix	Plagioclase-Clinopyroxene		
General Lithology	Basalt		
Texture 1	Vesicular		
Texture 2	Altered		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	0	Check [Or = Pr + Rf]	WRONG BY 100%
Whole Rock Replaced (%)	0	Check [Or = Pr + Rf]	WRONG BY 100%
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	0	Check [Or = Pr + Rf]	WRONG BY 100%
Total Groundmass Replaced (%)	0	Check [Or = Pr + Rf]	WRONG BY 100%
Whole Rock Summary	An phyric basalt (plagioclase, clinopyroxene, maybe olivine) with a layered structure. Some layers are finer grained and contain higher density of vesicles. The phenocrysts are large (up to 1cm diameter). The sample is relatively fresh with alteration only found around fractures. Rock contains a thin FeMn coat		
Thin Section Summary	A plagioclase and clinopyroxene phyric basalt with alternating layers of more or less oxidation. The more altered layers follow pre-existing weaknesses where water was able to penetrate as evident by the abundant palagonite and Fe-oxide recrystallization. Plagioclase phenocrysts range in diameter continually from 0.25 to ~7mm. Clinopyroxene grains are smaller and range from 0.25 to 0.5 mm in diameter. The groundmass consists of variably altered mesostasis of plagioclase, clinopyroxene, spinel and glass. The sample is vesicular with palagonite rims on all vesicles/voids.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		20		8			10	
Present (%) [Pr]		18		8			7	
Replaced / Filled (%) [Rf]		2		0			3	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.25		0.25			0.1	
Maximum Size (mm)		7		0.75			0.75	
Modal Size (mm)		1.5		0.5			0.4	
Shape		Subhedral		Subhedral			Subrounded	
Habit								
Zonation Type		Twinning-Sector						
Zonation Extent		Common						
Exsolution Type								
Special Features								
Comments		Spongy textures common towards rims of large phenocrysts					Palagonite rims on all. Alteration halos common.	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		20		10	10			60
Present (%) [Pr]		15		5	10			0
Replaced / Filled (%) [Rf]		5		5	0			60
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.01		0.05	0.01			
Maximum Size (mm)		0.25		0.1	0.05			
Modal Size (mm)		0.1		0.075	0.02			
Shape		Subhedral		Anhedral	Subhedral			
Habit		Laths						
Comments				Talc alteration				Mixed altered glass and other secondary minerals