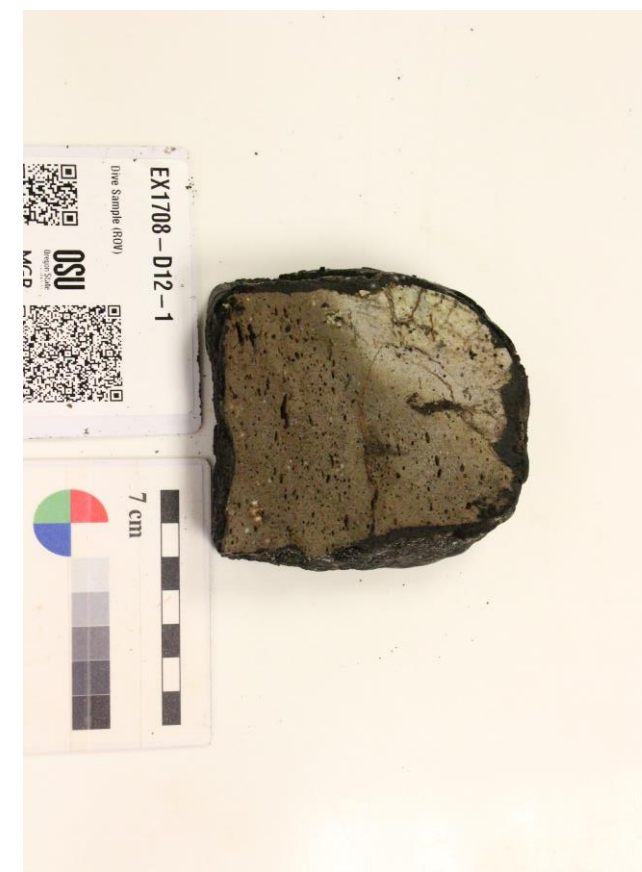
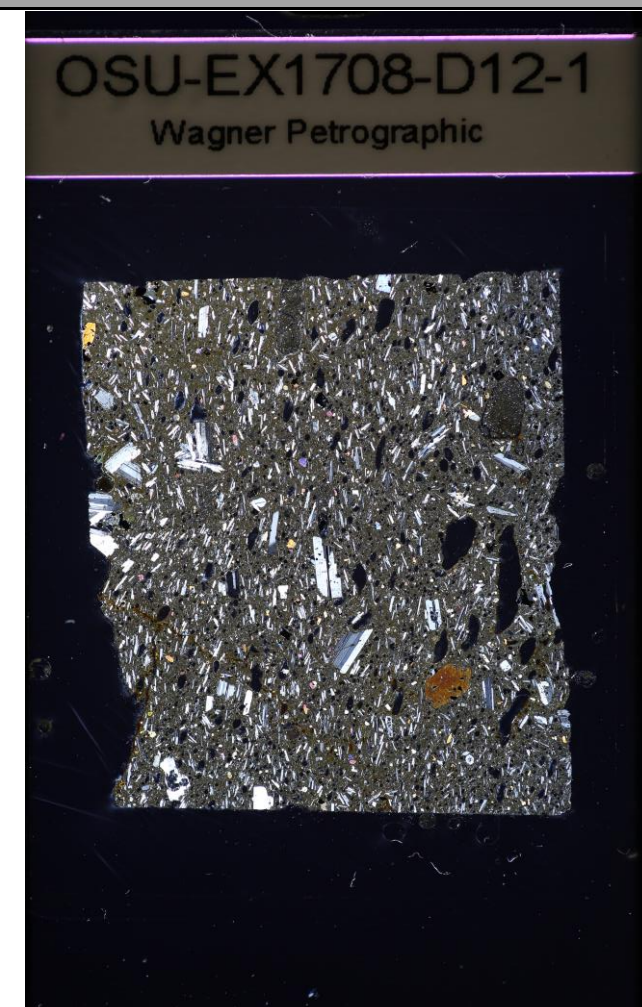


General Information			
Sample Name (IGSN)	EX1708-D12-1		
Describer	Kevin Konrad		
Sample Location	Mussorgsky Seamount		
Lithology prefix	Plagioclase-Clinopyroxene-Spinel		
General Lithology	Basalt		
Texture 1	Trachytic		
Texture 2	Porphyritic		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	80	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	20	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	80	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	20	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A Fe-oxide altered clinopyroxene-plagioclase phyric basalt with a cryptocrystalline groundmass. Sample contains elongated, aligned vesicles that are mostly unfilled. A few xenoliths (or glomerocrysts) can be found within the sample. The rock contains a small zone of some secondary mineralization and a thin (0.25 cm) FeMn crust.		
Thin Section Summary	A plagioclase-clinopyroxene-spinel phyric basalt with a glass rich groundmass. The plagioclase seem to vary gradually in size from ~0.5 mm length to at least 2.5 mm. Clinopyroxene are mostly microcrystic in size (0.1-0.3 mm) with a few phenocrysts. Large (0.25-0.5 mm) spinel macrocrysts are found with occasional plagioclase chadacrysts. A few inclusions of aphyric basalts can be found within. The groundmass is primarily altered glass.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		30		5	3		10	
Present (%) [Pr]		28		5	3		10	
Replaced / Filled (%) [Rf]		2		0	0		0	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.25		0.25	0.25		0.2	
Maximum Size (mm)		2.5		2	0.5		2	
Modal Size (mm)		1		0.5	0.4		1	
Shape		sub-euhedral		subhedral	subhedral		Subrounded	
Habit								
Zonation Type		Albite twinning						
Zonation Extent		Common						
Exsolution Type								
Special Features								
Comments		Some spongy textures on outer rims of the phenocrysts					Elongated and unfilled. Some minor palagonite rims	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		10		5	5			80
Present (%) [Pr]		10		5	5			40
Replaced / Filled (%) [Rf]		0		0	0			40
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.01		0.01	0.01			
Maximum Size (mm)		0.25		0.1	0.05			
Modal Size (mm)		0.1		0.05	0.03			
Shape		Euhedral		Subhedral	Subhedral			
Habit		Laths						
Comments		Trachytic						Mostly altered glass