67647

Regolith Breccia

48 grams

Figure 1: Photo of 67647. Scale in mm. S80-34091

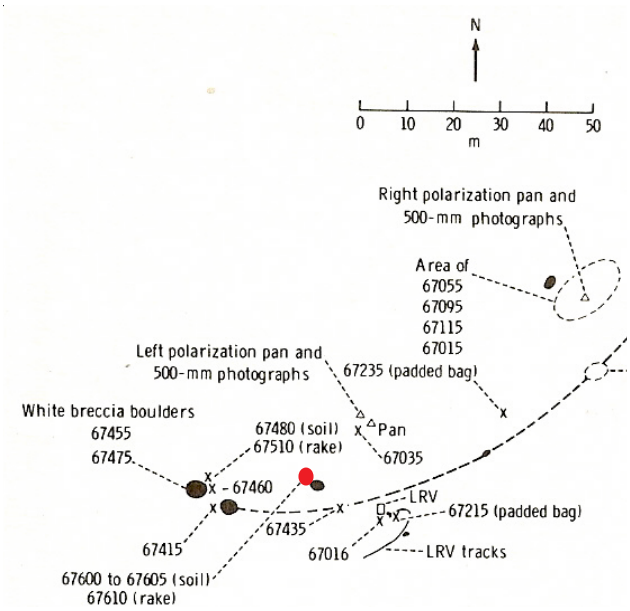

Figure 2: Map of NRC.

Introduction

67647 was collected as a rake sample from just inside the rim of North Ray Crater (NRC) – see section on 67601. It is relatively coherent with lots of zap pits (figure 1).

Petrography

67647 appears to be a highland regolith breccia with a low maturity index Is/FeO = 2 (Jerde et al. 1987). However, it is broadly similar to other crushed white rocks on the rim of NRC. It has glass clasts, and glass in the matrix (figure 3).

Chemistry

Jerde et al. (1987) found that 67647 was highly aluminous, with low trace element content, but relatively high Ir.

Processing

There is a thin section.

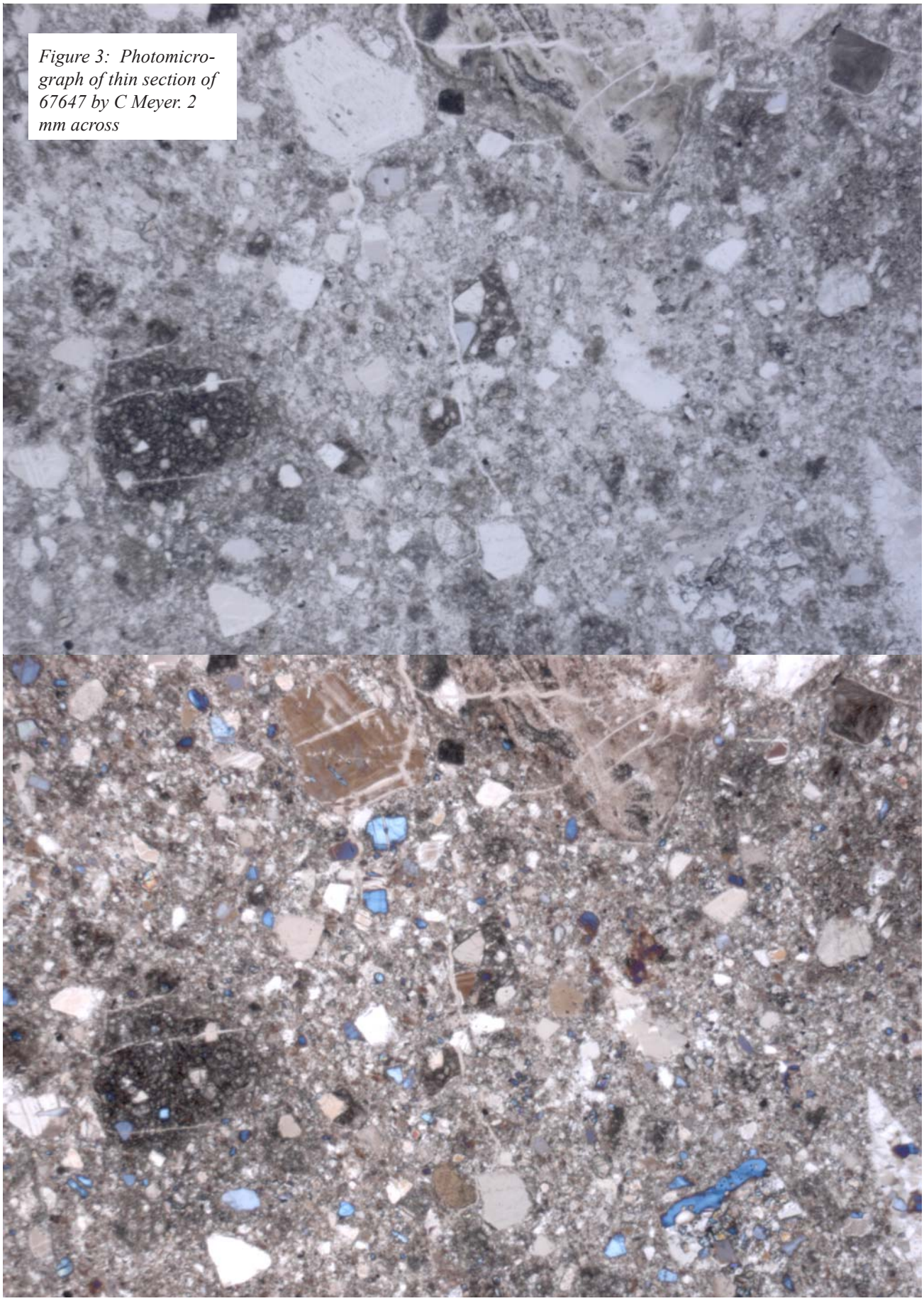

Figure 3: Photomicrograph of thin section of 67647 by C Meyer. 2 mm across

References for 67647

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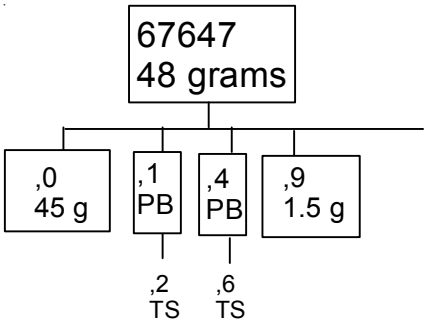

Table 1. Chemical composition of 67647

reference	Jerde87	
weight		
SiO2 %	44.5	(a)
TiO2	0.25	(a)
Al2O3	30.2	(a)
FeO	2.38	(a)
MnO	0.035	(a)
MgO	3.18	(a)
CaO	17.6	(a)
Na2O	0.515	(a)
K2O	0.048	(a)
P2O5		
S %		
sum		
Sc ppm	5	(a)
V		
Cr	310	(a)
Co	5.3	(a)
Ni	35	(a)
Cu		
Zn		
Ga	4.2	(a)
Ge ppb		
As		
Se		
Rb		
Sr	190	(a)
Y		
Zr		
Nb		
Mo		
Ru		
Rh		
Pd ppb		
Ag ppb		
Cd ppb		
In ppb		
Sn ppb		
Sb ppb		
Te ppb		
Cs ppm		
Ba	33	(a)
La	1.4	(a)
Ce	3.7	(a)
Pr		
Nd	2.4	(a)
Sm	0.69	(a)
Eu	1.07	(a)
Gd		
Tb	0.146	(a)
Dy		
Ho		
Er		
Tm		
Yb	0.57	(a)
Lu	0.094	(a)
Hf	0.44	(a)
Ta	0.055	(a)
W ppb		
Re ppb		
Os ppb		
Ir ppb	3	(a)
Pt ppb		
Au ppb		
Th ppm	0.23	(a)
U ppm	0.086	(a)
technique:	*(a) INAA+RNAA*	