

65789

Cataclastic Ferroan Anorthosite

12.2 grams

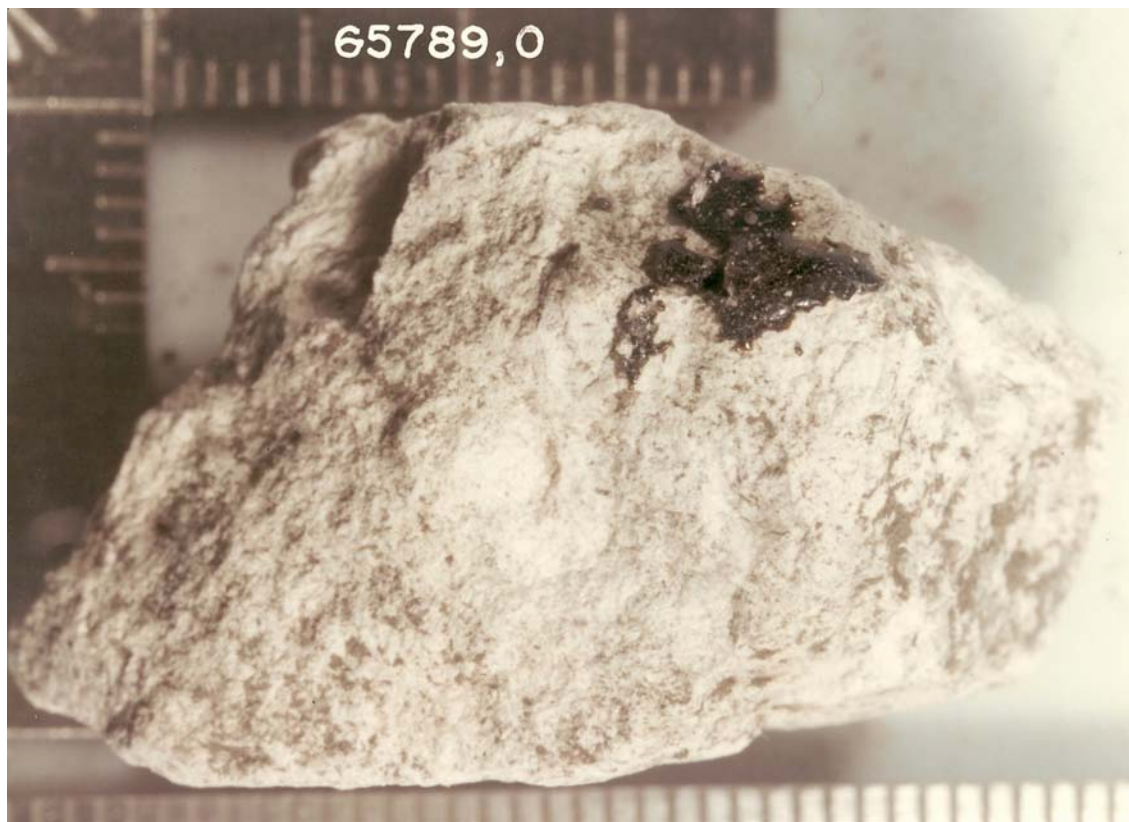


Figure 1: Photo of 65789. Scale in mm. S72-48818

Introduction

65789 is a chalky white rake sample from station 5 – see sections on 65501 and 65701.

Petrography

Keil et al. (1972), Dowty et al. (1974) and Warner et al. (1976) described 65789 as a cataclastic anorthosite. The thin section shows it is finely divided (figure 2). Plagioclase does not show shock features; the mafic minerals are not “equilibrated” (figure 3). Minor chromite and ilmenite are present. It is a ferroan anorthosite.

Warren (1993) list 65789 as probably pristine – even without Ir, Au analyses.

Chemistry

The only analysis is by defocused beam analysis (DBA).

Table 1. Chemical composition of 65789

<i>reference weight</i>	Dowty74	Warner76
SiO ₂ %	44.9	(a)
TiO ₂	0.01	(a)
Al ₂ O ₃	34.3	(a)
FeO	0.96	(a)
MnO		
MgO	0.63	(a)
CaO	18.8	(a)
Na ₂ O	0.37	(a)
K ₂ O	0.01	(a)
P ₂ O ₅	0.02	(a)
S %		
<i>sum</i>		
<i>(a) DBA</i>		

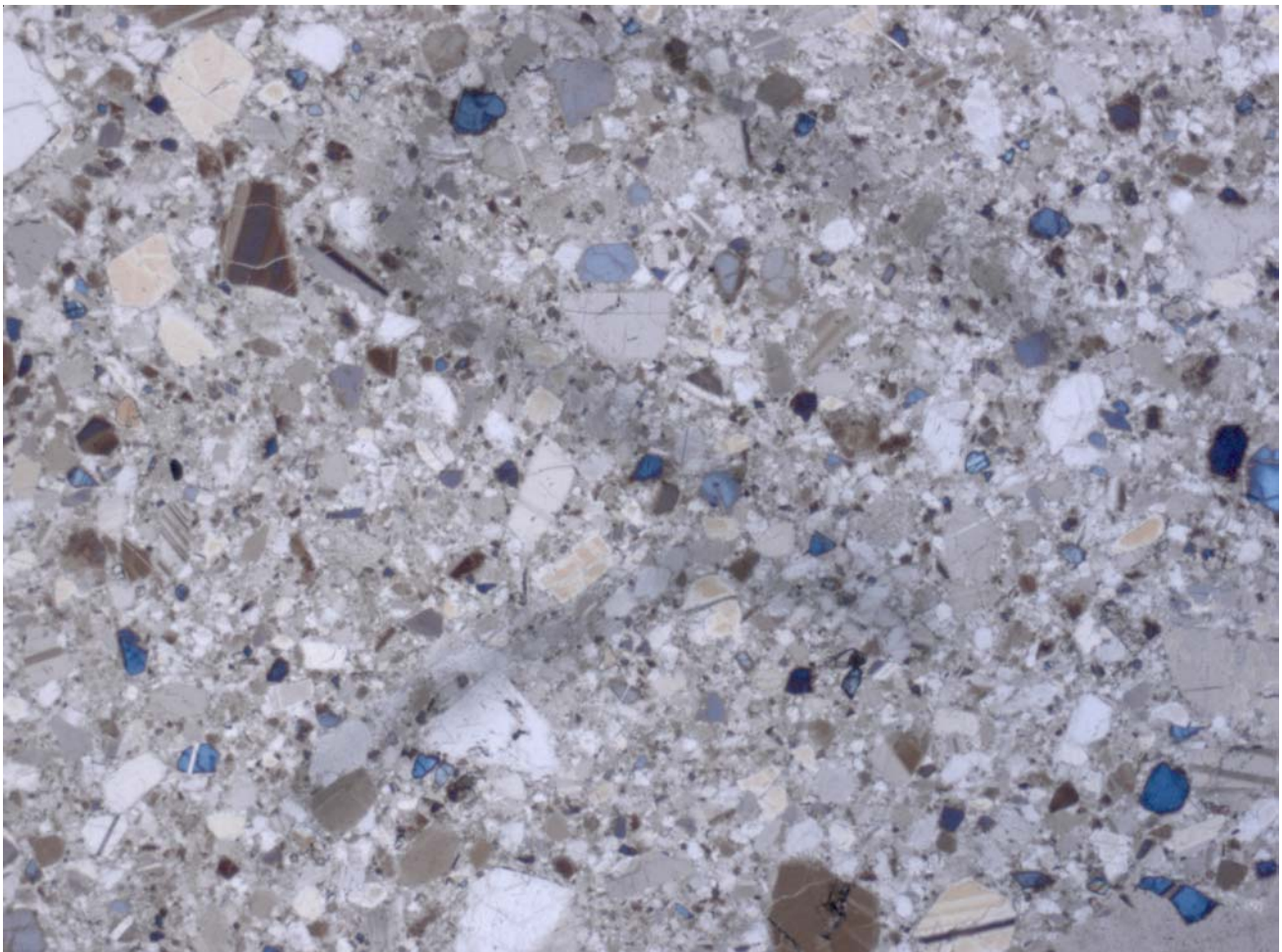


Figure 2: Photomicrograph of thin section 65789,2. by C Meyer Width of field is 2 mm.

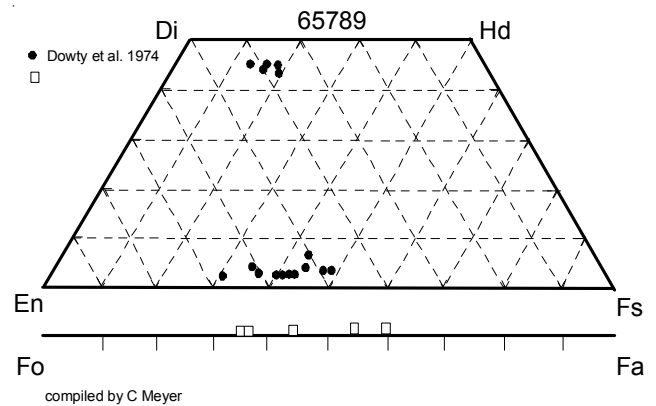


Figure 3: Composition of olivine and pyroxene in 65789 (from Warner et al. 1976).

References for 65789

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