

INTRODUCTION: 60619 is a coherent, light gray anorthosite that has been extensively recrystallized to a granoblastic texture. A small amount of dark splash glass is present on some surfaces (Fig. 1). 60619 is a rake sample collected about 70 m west southwest of the Lunar Module. Zap pits are heterogeneously distributed.



FIGURE 1. Scale in cm. S-72-43473.

PETROLOGY: Petrographic descriptions are given by Dowty et al. (1974a) and Warner et al. (1976b). Accurate electron microprobe analyses of Na, Fe, Mg and K in 60619 plagioclases are given by Hansen et al. (1979a).

The granoblastic texture (Fig. 2) of 60619 is indicative of extensive recrystallization. Small (<0.2 mm), anhedral grains of plagioclase have smooth boundaries and meet in triple junctions. Anhedral mafic minerals occur (i) in these triple junctions, (ii) as inclusions in plagioclase, and (iii) as somewhat larger grains partially enclosing some plagioclase. Mineral compositions are shown in Figure 3 and tabulated in Dowty et al. (1976).

CHEMISTRY: A defocussed electron beam analysis (DBA) is presented by Dowty et al. (1974a) and reproduced in Warner et al. (1976b) and here as Table 1.

PROCESSING AND SUBDIVISIONS: In 1973 two small chips (,1) were taken for thin sections (Fig. 1).

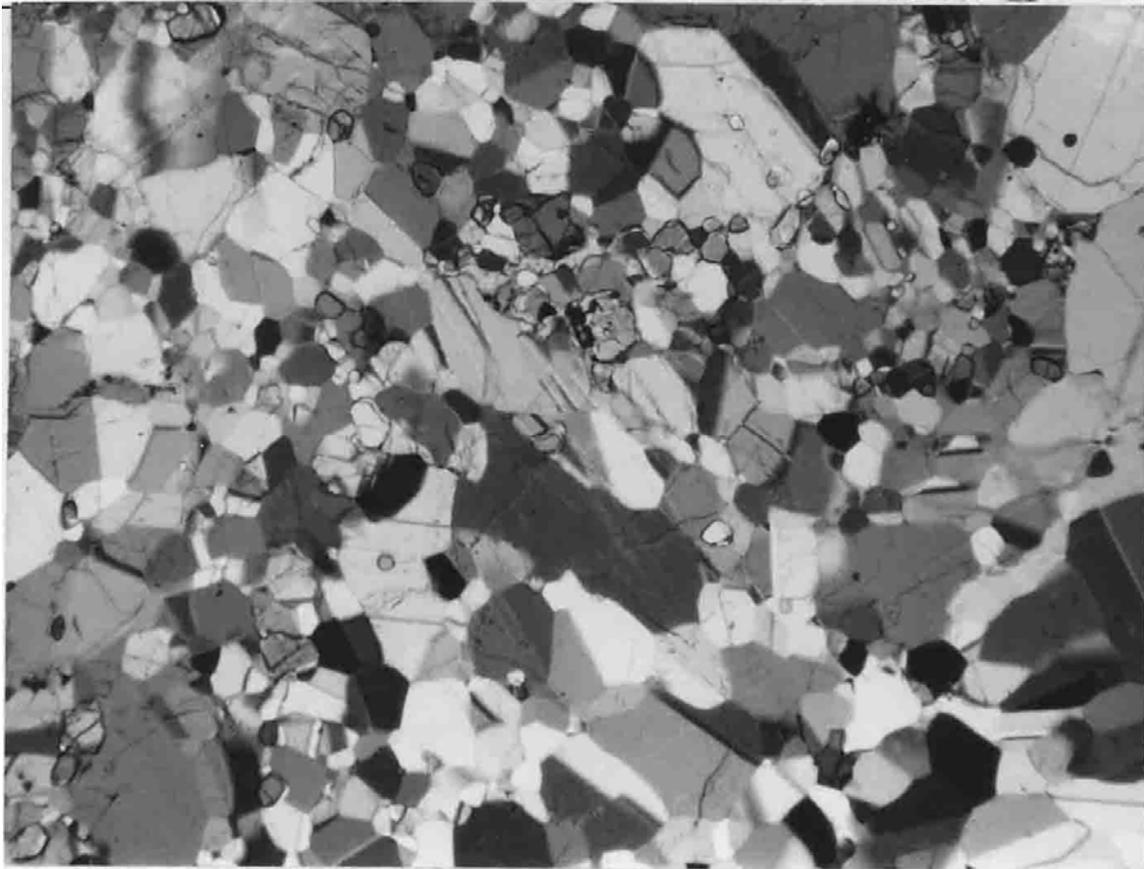


FIGURE 2. 60619,2.
Granoblastic anorthosite, partly xpl. Width 3 mm.

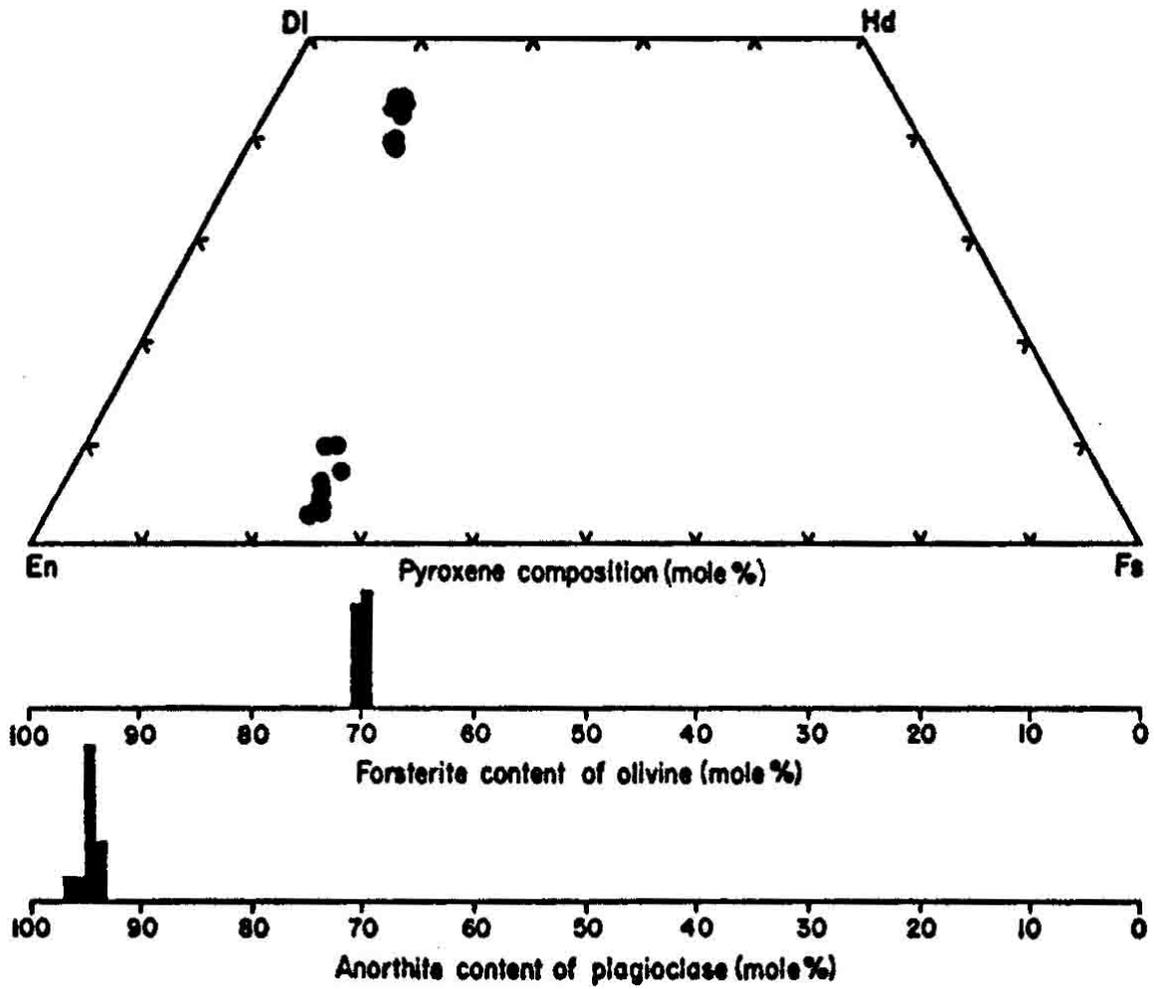


FIGURE 3. Mineral compositions,
from R. Warner et al. (1976b).

TABLE 1. Chemistry of 60619 (DBA).

SiO ₂	44.6
TiO ₂	0.06
Al ₂ O ₃	32.9
Cr ₂ O ₃	0.01
FeO	1.20
MnO	0.01
MgO	1.68
CaO	17.8
Na ₂ O	0.63
K ₂ O	0.04
P ₂ O ₅	0.03