

Rake Fragments from Station 8

RAKE FRAGMENTS FROM STATION 8

Station 8 was located only about 20 meters above the Taurus-Littrow Valley (Wolfe and others, 1981). The comprehensive sample at Station 8 consisted of both a rake sample and a soil sample from which rock fragments and "coarse-fine" fragments were separated. Soil 78500 (called the rake soil) contained rock fragments 78505-78518, and the rake sample contained 78525-78599 (the residual dirt in the rake bag was called 78530). A soil sample from trench 78460 also yielded one particle greater than 1 cm (78465).

Keil et al. (1974) prepared a catalog of the rake samples from Station 8 and reported studies of them in several catalogs from the University of New Mexico (Warner et al., 1978). Fig. 1 shows the location of the rake sample and rake soil on the rim of a subdued small crater (10 meters).

Table 1 gives a summary of the rake samples. Judging from the large number of mare basalts and small number of highland breccias, the Sculptured Hills formation was not well sampled at Station 8. Meyer (1973) prepared a catalog of additional small "coarse-fine" fragments from the Apollo 17 soils. There was a total of 84 particles in

78504 (the 4-10 mm size range). There may also be important particles in the residual dirt from the rake sample 78530 (89 g) and the trench soils (78220-78280). There is only time here to refer to a few of the studies of the numerous coarse-fine particles.

Irving et al. (1974) and Steele and Smith (1975) have studied a number of coarse fines from Apollo 17. Bence et al. (1974) have studied a small fragment, 78503,7,1, which they claim is the equivalent of 77017. Jolliff et al. (1993) has begun an extensive study of the coarse fines from the talus slopes of Massifs surrounding the Taurus-Littrow Valley.

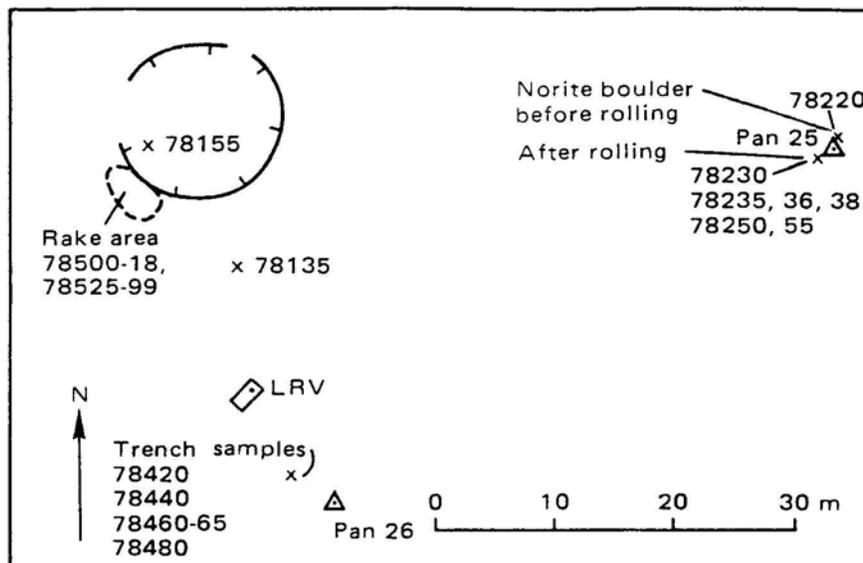


Figure 1: Map of Station 8 showing location of the rake sample.

Table 1: Summary of the "Rake Samples" from Station 8.

78465	Soil Breccia	78556	Dark Matrix Soil Breccia
78505	High-Ti Mare Basalt	78557	Dark Matrix Soil Breccia
78506	High-Ti Mare Basalt	78558	Dark Matrix Soil Breccia
78507	High-Ti Mare Basalt	78559	Dark Matrix Soil Breccia
78508	Light Matrix Soil Breccia	78565	Dark Matrix Soil Breccia
78509	High-Ti Mare Basalt	78566	Dark Matrix Soil Breccia
78515	Dark Matrix Breccia	78567	Dark Matrix Soil Breccia
78516	Dark Matrix Soil Breccia	78568	Breccia
78517	Friable White Cataclasite	78569	High-Ti Mare Basalt
78518	Dark Matrix Soil Breccia	78575	High-Ti Mare Basalt
78525	Agglutinate	78576	High-Ti Mare Basalt
78526	Green Glass Vitrophyre	78577	High-Ti Mare Basalt
78527	Granulitic Noritic Breccia	78578	High-Ti Mare Basalt
78528	Basalt	78579	High-Ti Mare Basalt
78535	Dark Matrix Breccia	78585	High-Ti Mare Basalt
78536	Dark Matrix Breccia	78586	High-Ti Mare Basalt
78537	Dark Matrix Breccia	78587	High-Ti Mare Basalt
78538	Dark Matrix Breccia	78588	High-Ti Mare Basalt
78539	Dark Matrix Breccia	78589	High-Ti Mare Basalt
78545	Dark Matrix Breccia	78595	High-Ti Mare Basalt
78546	Dark Matrix Breccia	78596	High-Ti Mare Basalt
78547	Dark Matrix Breccia	78597	High-Ti Mare Basalt
78548	Soil Clod	78598	High-Ti Mare Basalt
78549	Soil Clod	78599	High-Ti Mare Basalt
78555	Soil Breccia		