

NOTES ON BASE

The base was prepared by AGC with advisory assistance from Dr. W. B. Fisher, Jr. and his collaborators, D. W. G. Arthur and E. A. Walker.

The shaded lunar figure in the field of sphere corresponding to the mean lunar radius of 1738 kilometers.

CONTENTS

The map area is near the limb of the Moon where positions are most uncertain. Significant features in the quadrangle become apparent with the acquisition of Lunar Orbiter photographs in 1966. The map is a photographic print. To avoid duplication in the printed form, the shaded lunar figure in the field of sphere is not shown.

The relative elevations of crater rims and other prominent features are indicated by symbols. The lengths of the radius vectors are expressed in kilometers.

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Feature names were adopted from the 1955 International Astronomical Union nomenclature system as updated by Cohen et al. in 1961 and 1964. Some features not identified by Cohen et al. are identified by capital letters. Features not identified by Cohen et al. are identified by capital letters. Features not identified by Cohen et al. are identified by capital letters.

MAP INFORMATION

Scale: 1:805,000

Standard Parallel: 27° 20' and 42° 40'

Maped 1971. Principal sources of geologic information: Lunar Orbiter photographs shown on their axes; high-illumination photo 099319, U.S. Naval Observatory; Apollo 12 film; Apollo 13 film; Apollo 14 film; Apollo 16 film; Apollo 17 film; Apollo 18 film; Apollo 19 film; Apollo 20 film; Apollo 21 film; Apollo 22 film; Apollo 23 film; Apollo 24 film; Apollo 25 film; Apollo 26 film; Apollo 27 film; Apollo 28 film; Apollo 29 film; Apollo 30 film; Apollo 31 film; Apollo 32 film; Apollo 33 film; Apollo 34 film; Apollo 35 film; Apollo 36 film; Apollo 37 film; Apollo 38 film; Apollo 39 film; Apollo 40 film; Apollo 41 film; Apollo 42 film; Apollo 43 film; Apollo 44 film; Apollo 45 film; Apollo 46 film; Apollo 47 film; Apollo 48 film; Apollo 49 film; Apollo 50 film; Apollo 51 film; Apollo 52 film; Apollo 53 film; Apollo 54 film; Apollo 55 film; Apollo 56 film; Apollo 57 film; Apollo 58 film; Apollo 59 film; Apollo 60 film; Apollo 61 film; Apollo 62 film; Apollo 63 film; Apollo 64 film; Apollo 65 film; Apollo 66 film; Apollo 67 film; Apollo 68 film; Apollo 69 film; Apollo 70 film; Apollo 71 film; Apollo 72 film; Apollo 73 film; Apollo 74 film; Apollo 75 film; Apollo 76 film; Apollo 77 film; Apollo 78 film; Apollo 79 film; Apollo 80 film; Apollo 81 film; Apollo 82 film; Apollo 83 film; Apollo 84 film; Apollo 85 film; Apollo 86 film; Apollo 87 film; Apollo 88 film; Apollo 89 film; Apollo 90 film; Apollo 91 film; Apollo 92 film; Apollo 93 film; Apollo 94 film; Apollo 95 film; Apollo 96 film; Apollo 97 film; Apollo 98 film; Apollo 99 film; Apollo 100 film.

EXPLANATION

Materials of craters with bright rays or halos

Crater Materials

Materials of satellite craters

Materials of craters on smooth terrain

Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare

Materials of craters with bright rays or halos

Crater Materials

Materials of satellite craters

Materials of craters on smooth terrain

Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare

Materials of craters with bright rays or halos

Crater Materials

Materials of satellite craters

Materials of craters on smooth terrain

Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare

Materials of craters with bright rays or halos

Crater Materials

Materials of satellite craters

Materials of craters on smooth terrain

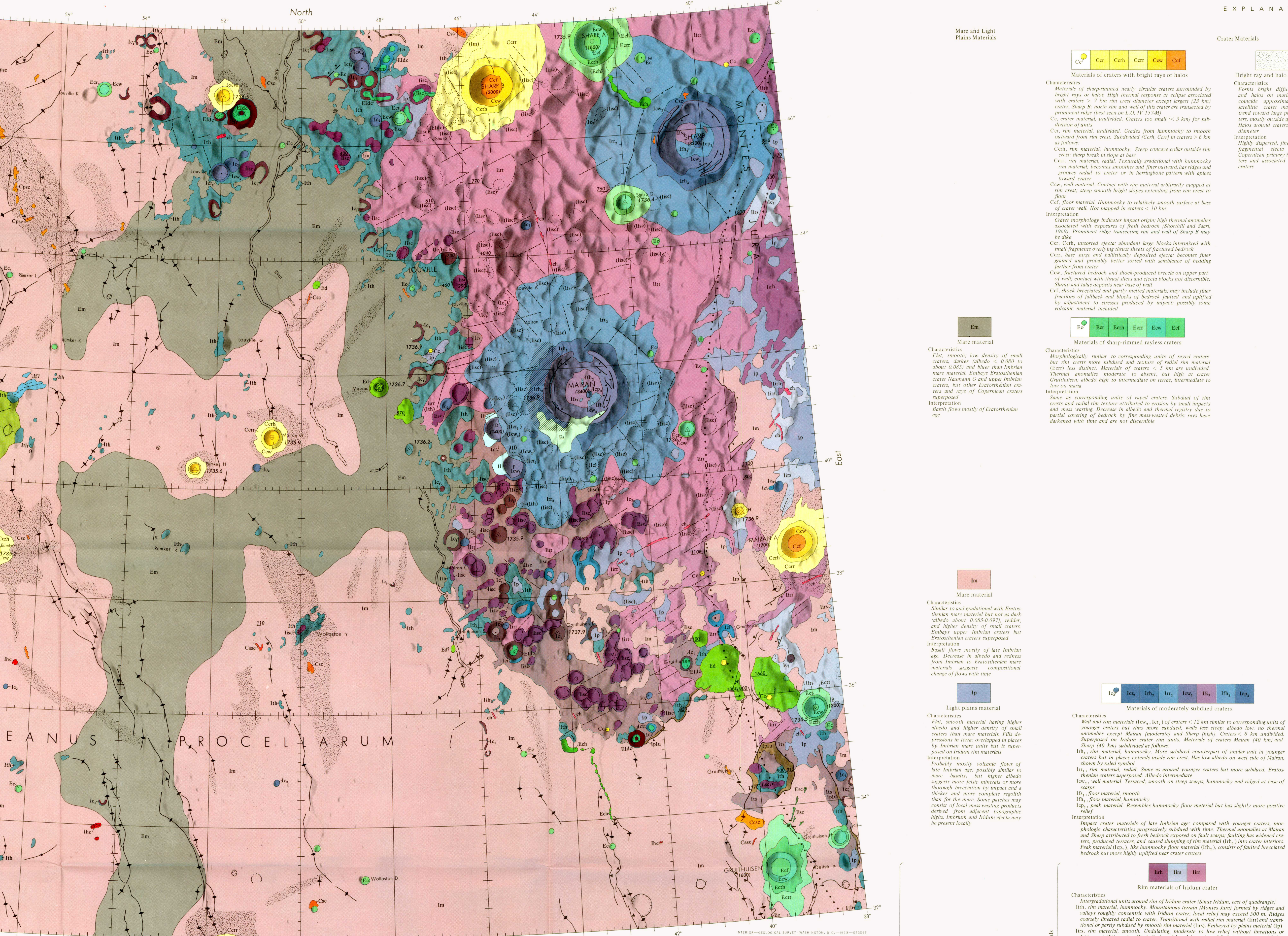
Materials of craters on mare

Materials of craters on hills and smooth terrain

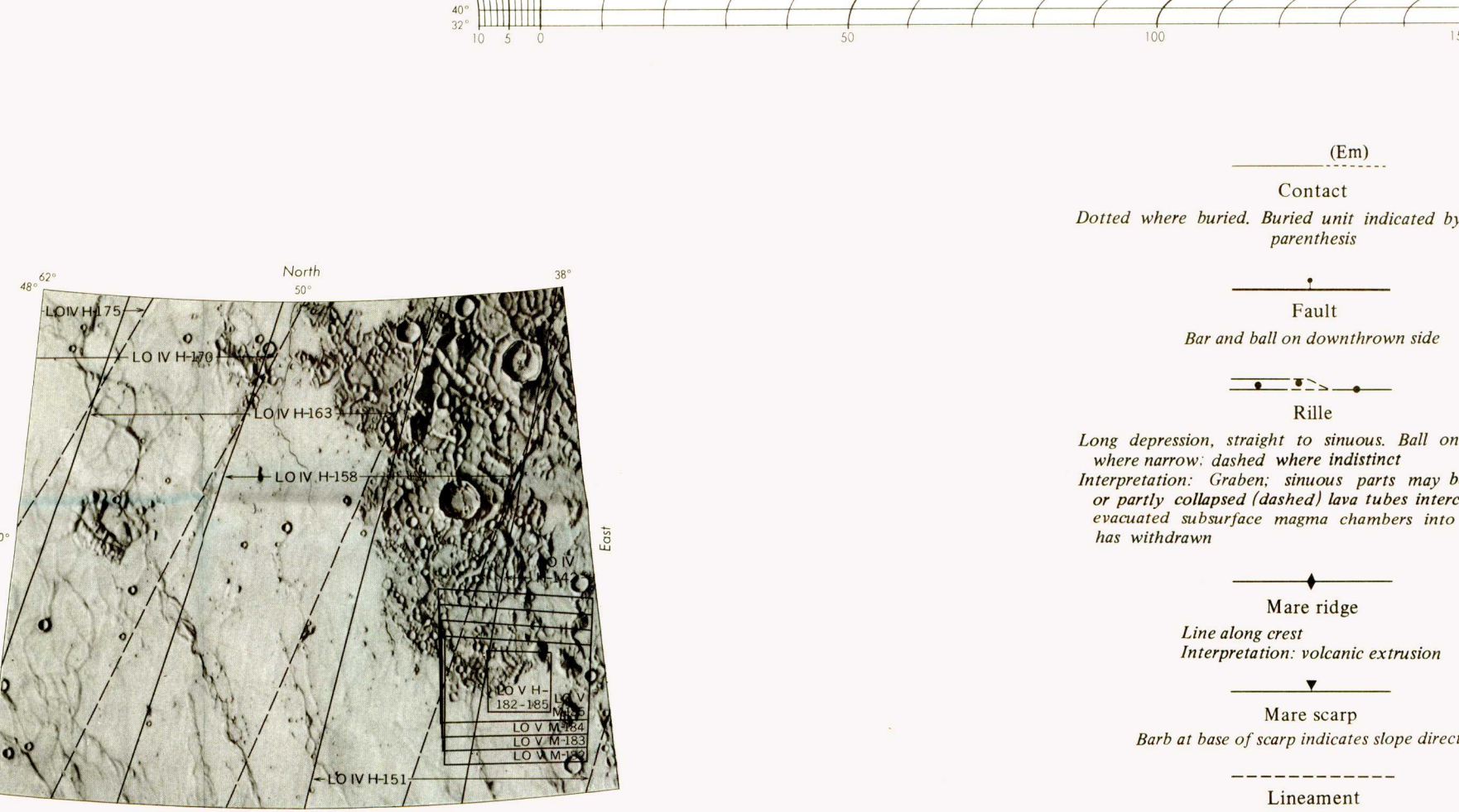
Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare



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INDEX MAP OF THE NEAR SIDE OF THE MOON. Numbered quadrangle refers to letter base chart (LAC series); number below refers to published map(s).

GEOLOGIC MAP OF THE RUMKER QUADRANGLE

By David H. Scott and R. E. Eggleton

GEOLOGIC SUMMARY

The Rümker quadrangle, in the northwest quadrant of the Moon, is adjacent to the basaltic rim of the multi-ring Imbrium basin and to the Maria Imbrium. A large (120 km diameter) multi-ringed crater, both of whose great depressions were probably formed by impact, is indicated here and elsewhere on the Moon by the characteristic flow, distribution, and extent of surrounding materials on its rim. The Imbrium basin and Imbrium crater were filled by mare materials during the Imbrium and Eratosthenian Periods. In this quadrangle, the wide-spread ejecta blanket of the Imbrium basin, as well as the basin's concentric rim, have been excavated, but have been buried by mare materials of mixed origin and by ejecta from Imbrium and mare materials of Eratosthenian origin. Much of the highland terrain is composed of a mixture of Imbrium basin ejecta and mare materials of probable volcanic origin. Much of the highland terrain is composed of a mixture of Imbrium basin ejecta and mare materials of probable volcanic origin. Much of the highland terrain is composed of a mixture of Imbrium basin ejecta and mare materials of probable volcanic origin.

GEOLOGIC LIMITS

The relative ages of units are determined by superposition and stratigraphic relationships, crater density, and other criteria such as topographic position, crater density, and the thickness of cover. Where possible, all units are mapped to their original depositional positions by Scott and Eggleton (1962). Where possible, all units are mapped to their original depositional positions by Scott and Eggleton (1962). Where possible, all units are mapped to their original depositional positions by Scott and Eggleton (1962).

Volcanic(?) Landform Materials

Materials of satellite craters

Materials of craters on smooth terrain

Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare

Materials of craters with bright rays or halos

Crater Materials

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Materials of craters on smooth terrain

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Materials of satellite craters

Materials of craters on smooth terrain

Materials of craters on mare

Materials of craters on hills and smooth terrain

Materials of craters on mare

REFERENCES

Chapman, C. D., and Sagan, C. 1969. Geologic map of the Moon. U.S. Geological Survey, Map G-3000.

Scott, D. H., and Eggleton, R. E. 1962. Stratigraphic relationships of units in the Rumker quadrangle of the Moon. U.S. Geological Survey, Professional Paper 594.

Scott, D. H., and Eggleton, R. E. 1964. Geologic map of the Moon. U.S. Geological Survey, Map G-3000.