



**NOTES ON BASE**  
This map covers the single hemisphere of Mercury that was visible to the Mariner 10 television cameras. Details of earlier related map series have been discussed by Davies and Batson (1975).  
The Lambert Azimuthal Equal Area projection used for this sheet is based on a sphere with a radius of 2,439 km. A polygon placed anywhere on an equal-area projection encloses the same number of square kilometers of map area.  
This map is a digitized transformation of a previously published map (U.S. Geological Survey, 1979) originally drawn by Barbara J. Hall. A photographic copy of the original sheet containing the Mercator and Polar Stereographic maps was digitized by an optical digital film-scanning device with a resolution cell size of 2 km at the scale of the original. The final transformed map image has a resolution of approximately 3 km per picture element. No attempt was made on the map to duplicate the color of Mercury.  
Names on this sheet are approved by the International Astronomical Union (IAU), 1977, 1980, 1983, 1986.  
H 10M 0/100 AN: Abbreviation for Mercury, 1:10,000,000 series; center of sheet, lat 0°, long 100°; shaded relief map with albedo markings (A), nomenclature, (N).  
**REFERENCES**  
Davies, M. E., and Batson, R. M., 1975, Surface coordinates and cartography of Mercury, *Journal of Geophysical Research*, v. 80, no. 17, p. 2417-2430.  
International Astronomical Union, 1977, Working Group for Planetary System Nomenclature, in 16th General Assembly, Grenoble, 1976, Proceedings, International Astronomical Union Transactions, v. 16B, p. 321-369.  
1980, Working Group for Planetary System Nomenclature, in 17th General Assembly, Montreal, 1979, Proceedings, International Astronomical Union Transactions, v. 17B, p. 290-291.  
1983, Working Group for Planetary System Nomenclature, in 18th General Assembly, Patras, 1982, Proceedings, International Astronomical Union Transactions, v. 18B, p. 331.  
1986, Working Group for Planetary System Nomenclature, in 19th General Assembly, New Delhi, 1985, Proceedings, International Astronomical Union Transactions, v. 19B, p. 347-350.  
U.S. Geological Survey, 1979, Mercury, relief and albedo markings visible on Mariner 10 images, H 10M 0/100 AN, U.S. Geological Survey Miscellaneous Investigations Series Map I-1171.

**NOTE TO USERS**  
Users noting errors or omissions are urged to indicate them on the map and to forward it to U.S. Geological Survey, Building 4, Room 454, 2235 North Gemini Drive, Flagstaff, Arizona 86001. A replacement copy will be returned.

**SHADED RELIEF AND SURFACE MARKINGS OF MERCURY**  
H 10M 0/100 AN  
1987

SCALE 1:10,000,000 (1 cm = 100 sq km)  
LAMBERT AZIMUTHAL EQUAL-AREA PROJECTION

PHOTOGRAPHIC SURVEY, 1979  
Prepared on behalf of the Planetary Geology and Geophysics Program, Planetary Division, Office of Space Science and Applications, National Aeronautics and Space Administration, under contract W-15,814.

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