



**NOTES ON BASE**

This map covers the major hemisphere of Mercury that was visible to the Mariner 10 television camera. Details of surface relief and topography 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 polygonal grid is overlaid on the map to show the same number of square kilometers of map area.

This map is a digitized transformation of a previously published map (U.S. Geological Survey, 1975) originally derived by Batson and Davis. A photomosaic copy of the original sheet containing the Mariner and Pioneer stereographic maps was digitized by an optical-digital film-scanning device with a resolution of one-half inch at the scale of the original. The final transformed map image has a resolution of approximately 3 km per picture element. The original map 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, contour interval, 100 m; 10° by 100° shaded relief map with shaded markings (100 kilometers, 100).

**REFERENCES**

Davies, M.E., and Batson, R.M., 1975, Surface coordinates and cartography of Mercury, *Journal of Geophysical Research*, v. 80, no. 17, p. 2617-2620.

International Astronomical Union, 1977, Working Group for Planetary System Nomenclature, 13th General Assembly, Garmisch, 1976, Proceedings, International Astronomical Union Transactions, v. 88, p. 231-269.

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1983, Working Group for Planetary System Nomenclature, 16th General Assembly, Paris, 1982, Proceedings, International Astronomical Union Transactions, v. 105, p. 381.

1986, Working Group for Planetary System Nomenclature, 17th General Assembly, New Delhi, 1985, Proceedings, International Astronomical Union Transactions, v. 108, p. 367-385.

U.S. Geological Survey, 1975, Mercury, relief and albedo markings visible on Mariner 10 images, H 10M 0/100 AN, Geological Survey Miscellaneous Investigations Series Map 1-1822.

**NOTE TO USERS**

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

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