



**NOTES ON BASE**  
This map sheet is one of a series covering that part of the surface of Mercury that was illuminated during the Mariner 10 encounters (Davies and Batson, 1973). The outlines of map data are the Mariner 10 television experiment (Murray, 1975).

**ADOPTED FIGURES**  
The map projections are based on a sphere with a radius of 2439 km.

**PROJECTION**  
The Lambert conformal cone projection is used for this sheet, with a scale of 1:658,000 at lat 22.5° S. Latitudes are based on the assumption that the spin axis of Mercury is perpendicular to the plane of the orbit. Longitudes are positive westward in accordance with the use of the International Astronomical Union (IAU, 1971). Meridians are numbered as on the reference crater named Hun Kal (lat 6.6° S is centered at long 20° West) and on the Moon. The latter sheets were controlled by an earlier, more preliminary net.

**CONTROL**  
Planimetric control is provided by photogrammetric triangulation using Mariner 10 pictures (Davies and Batson, 1973). Discrepancies between terrain in the base mosaic and computer control-point positions appear to be less than 2 m. No attempt was made to resolve discrepancies in feature positions on this sheet and those on the Kaiser (H 6) quadrangle to the north and the Bach (H 15) quadrangle to the south. The latter sheets were controlled by an earlier, more preliminary net.

**MAPPING TECHNIQUES**  
Mapping techniques are similar to those described by Batson (1973, 1975). Cartographic products were made with pictures that had been digitally transformed by the computer and printed on a grid. Shaded relief was copied from the mosaic and portrayed with a high contrast ink on the blue-toned film. Many Mariner 10 pictures besides those in the mosaic were used to improve the portrayal. The shading is not generalized and may be unrepresentative with respect to photographic reliability (Inge, 1972; Inge and Brisson, 1976).

**Shaded relief analysis and representation** were made by Susan J. Dvorak.

**NOMENCLATURE**  
All names on this sheet are approved by the International Astronomical Union (IAU, 1977).

**REFERENCES CITED**  
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**ARRANGEMENT OF MAP SHEETS ON MERCURY**  
The provisional name "Boresalis" was changed to "Borealis" and the provisional name "Tit" was changed to "Titania" by the International Astronomical Union in 1976 (IAU, 1977). These provisional names appeared on earlier editions of this index map and on the shaded relief map of the Talos (H 4) quadrangle. The number preceded by 1 refers to published geologic map.

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