



The basis for positioning the longitudes on the mosaic is shown in the above inset. By definition, the 20° meridian passes through the center of the crater Hun Kal. Assuming that the spin axis of Mercury is perpendicular to its orbital plane, the latitude of Hun Kal is 0.23° S. Scale of the inset is 1:2,500,000.

This mosaic was made by the U.S. Geological Survey for the Mariner 10 imaging team. The pictures were taken by Mariner 10 and were digitally processed by the Jet Propulsion Laboratory. No attempt was made to reduce geometric picture distortions. The grids are perspective projections of Mercury viewed from 235,000 km. The mathematical projection is modified empirically to conform to preliminary photogrammetrically derived horizontal control provided by the Rand Corporation. Nomenclature is provisional and subject to modification by the International Astronomical Union. The notation H 10M 1 SM is an abbreviation for "Mercury (Hermes), 1:10,000,000, first edition, semicontrolled mosaic." Prepared under JPL contract WO-8282.

SCALE OF DISK 1:10,000,000
PERSPECTIVE PROJECTION

REFERENCE MOSAIC OF MERCURY

1974