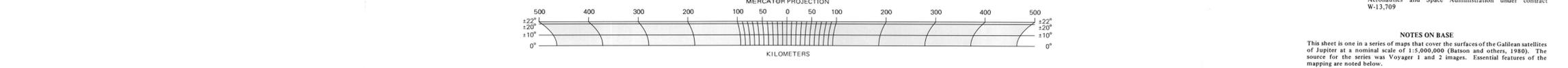


Interior - Geological Survey, Reston, Va. - 1984 - G8222  
Prepared on behalf of the Planetary Geology Program,  
Planetary Division, Office of Space Science, National  
Aeronautics and Space Administration under contract  
W-13,709



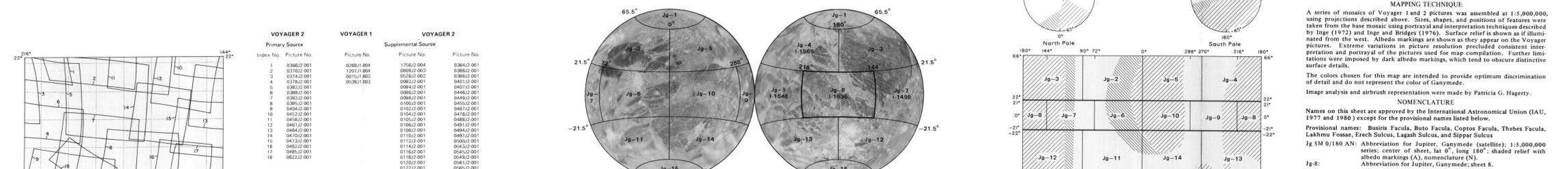
**NOTES ON BASE**  
This sheet is one in a series of maps that cover the surfaces of the Galilean satellites of Jupiter at a nominal scale of 1:5,000,000 (Bates and others, 1983). The source for the series was Voyager 1 and 2 images. Essential features of the mapping are noted below.

**CARTOGRAPHIC CONTROL**  
Mercator, Lambert conformal conic, and polar stereographic projections used for the maps of Ganymede are based on a sphere with a radius of 2638 km. The projections have common scales of 1:4,780,000 at lat ±21.3° and 1:4,769,000 at lat ±65.2°. Longitudes increase to the west in accordance with astronomical convention. Planimetric control was derived by photogrammetric triangulation using Voyager 1 and 2 pictures (Davies and Katayama, 1981). The meridians are numbered so that the reference crater, Anat, is centered on lat ±2.8° S., long 128°.

**MAPPING TECHNIQUE**  
A series of mosaics of Voyager 1 and 2 pictures was assembled at 1:5,000,000, using projections described above. Sizes, shapes, and positions of features were taken from the base mosaic using portrayal and interpretation techniques described by Inge (1972) and Inge and Bridges (1976). Surface relief is shown as if illuminated from the west. Albedo markings are shown as they appear on the Voyager pictures. Extreme variations in picture resolution precluded consistent interpretation and portrayal of the pictures used for map compilation. Further limitations were imposed by dark albedo markings, which tend to obscure distinctive surface details.

The colors chosen for this map are intended to provide optimum discrimination of detail and do not represent the color of Ganymede.

**Image analysis and airbrush representation were made by Patricia G. Hagerty.**



**INDEX TO MAPPING SOURCES**  
The rendition of features on this map was controlled by reference to the primary source pictures outlined above. Supplemental source images used during the compilation are listed separately. Copies of various enhancements of these pictures are available from National Space Science Data Center, Code 601, Goddard Space Flight Center, Greenbelt, MD 20771.

**QUADRANGLE LOCATION**  
Number preceded by 1 refers to published topographic map

**REFERENCES**  
Bates, R. M., Bridges, P. M., Inge, J. L., Ishii, Christopher, Masursky, Harold, Strobel, M. E., and Tencer, K. L., 1980, Mapping the Galilean satellites of Jupiter with Voyager data: Photogrammetric Engineering and Remote Sensing, v. 46, no. 10, p. 1303-1312.  
Inge, J. L., 1972, Principles of lunar illustration: Aeronautical Chart and Information Center Reference Publication RP-72-1, 60 p.  
Inge, J. L., and Bridges, P. M., 1976, Applied photointerpretation for airbrush cartography: Photogrammetric Engineering and Remote Sensing, v. 42, no. 6, p. 749-760.  
International Astronomical Union, 1977, Working Group for Planetary System Nomenclature, 16th General Assembly, Grenoble 1976, Proceedings: International Astronomical Union Transactions, v. 168, p. 322-323.  
1980, Working Group for Planetary System Nomenclature, 17th General Assembly, Montreal, 1979, Proceedings: International Astronomical Union Transactions, v. 178, p. 297-304.

## SHADED RELIEF AND SURFACE MARKINGS OF THE URUK SULCUS QUADRANGLE OF GANYMEDE

Jg-8  
Jg 5M 0/180 AN  
1984

**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, 2255 North Gemini Drive, Flagstaff, Arizona 86001. A replacement copy will be returned.

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U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225