

**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 (Bateson and others, 1980). The source for the series was Voyager 1 and 2 images. Essential features of the mapping are noted below.

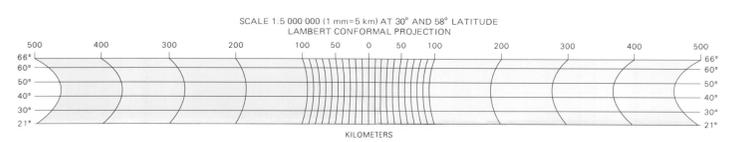
**CARTOGRAPHIC CONTROL**  
Mercator, Lambert Conformal Conic, and Polar Stereographic projections used for the maps of Ganyমেде are based on a sphere with a radius of 2638 km. The projections have common scales of 1:4,780,000 at lat +21.3° and 1:4,769,000 at lat -65.2°. Longitude increases to the west 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, Anax, 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 scale 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.

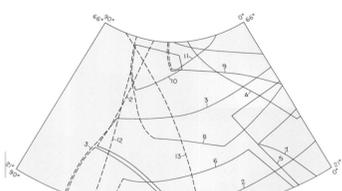
**NOMENCLATURE**  
Names on this sheet are approved by the International Astronomical Union (IAU, 1980 and 1988).  
Jg 5M 44/45 AN: Abbreviation for Jupiter, Ganyমেде (satellite), 1:5,000,000 series; center of sheet, lat 44° N, long 45° W, shaded relief with albedo markings (A), nomenclature (N).  
Jg 2: Abbreviation for Jupiter, Ganyমেде; sheet 2.

**REFERENCES**  
Bateson, R.M., Bridges, P.M., Inge, J.L., Isbell, Christopher, Masursky, Harold, Strobel, M.E., and Tyler, R.L., 1980, Mapping the Galilean satellites of Jupiter with Voyager data: Photogrammetric Engineering and Remote Sensing, v. 46, no. 10, p. 1303-1312.  
Davies, M.E., and Katayama, F.Y., 1981, Coordinates of features on the Galilean satellites: Journal of Geophysical Research, v. 86, no. A10, p. 8635-8657.  
Inge, J.L., 1972, Principles of lunar illustration: Aeronautical Chart and Information Center Reference Publication 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, 1980, Working Group for Planetary System Nomenclature, in 17th General Assembly, Montreal, 1979, Proceedings: International Astronomical Union Transactions, v. 175, p. 297-304.  
1988, Working Group for Planetary System Nomenclature, in Reports on Astronomy: International Astronomical Union Transactions, v. 20A, p. 705-706.

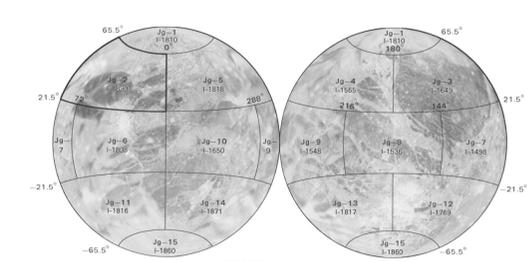
**NOTE TO USERS**  
Users noting errors or omissions are urged to indicate them on the map and to forward it to U.S. Geological Survey, Building 4, Room 454, 2255 North Gemini Drive, Flagstaff, Arizona 86001. A replacement copy will be returned.



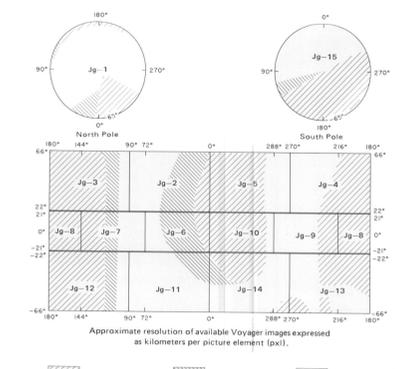
VOYAGER 1		VOYAGER 2		VOYAGER 1		VOYAGER 2	
Index No.	Picture No.						
1	728,1+000	12	5280-002	7451+000	17582-004		
2	736,1+000	13	8080-003	7561+000			
3	763,1+000			8741+000			
4	801,1+000			8721+000			
5	811,1+000			8921+000			
6	893,1+000			1041+000			
7	963,1+000			10821+000			
8	983,1+000			18511+002			
9	983,1+000						
10	991,1+000						
11	991,1+000						



**INDEX OF 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



## SHADED RELIEF AND SURFACE MARKINGS OF THE PERRINE QUADRANGLE OF GANYMEDE

Jg-2  
Jg 5M 44/45 AN  
1988