

SHADED RELIEF AND SURFACE MARKINGS OF THE TIAMAT SULCUS OHADRANGLE OF CAN

Jg-9 Jg 5M 0/252 AN

QUADRANGLE LOCATION

Number preceded by I refers to published topographic map

SHADED RELIEF AND SURFACE MARKINGS OF THE TIAMAT SULCUS QUADRANGLE OF GANYMEDE

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 dis-

The colors chosen for this map are intended to provide optimum discrimination

NOMENCLATURE

Names on this sheet are approved by the International Astronomical Union (IAU,

Provisional names: Agreus, Antum, Geinos, Hursag Sulcus, Lakhamu Fossa, Mir, Nanna, Ombos Facula, Seima, and Tammuz.

Jg 5M 0/252 AN: Abbreviation for Jupiter, Ganymede (satellite); 1:5,000,000 series; center of sheet, lat 0°, long 252°; shaded relief with albedo markings (A), nomenclature (N).

Jg-9: Abbreviation for Jupiter, Ganymede; sheet 9.

REFERENCES

Batson, R. M., Bridges, P. M., Inge, J. L., Isbell, Christopher, Masursky, Harold, Strobell, M. E., and Tyner, R. L., 1980, Mapping the Galilean satellites of Jupiter

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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 RP-72-1, 60 p.

Inge, J. L., and Bridges, P. M., 1976, Applied photointerpretation for airbrush

International Astronomical Union, 1977, Working Group for Planetary System Nomenclature, in 16th General Assembly, Grenoble, 1976, Proceedings: International Astronomical Union Transactions, v. 16B, p. 322-323.

1980, Working Group for Planetary System Nomenclature, in 17th General Assembly, Montreal, 1979, Proceedings: International Astronomical Union

cartography: Photogrammetric Engineering and Remote Sensing, v. 42, no. 6,

Image analysis and airbrush representation were made by Jay L. Inge.

1977 and 1980) except for the provisional names listed below.

of detail and do not represent the color of Ganymede.

tinctive surface details.

Transactions, v. 17B, p. 297-304.

Approximate resolution of available Voyager images expressed

as kilometers per picture element (pxl)

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.