



INDEX No.	Picture No.	Supplemental Source
1	834 J2-3	883 J2-2
2	414 J2-2	887 J2-2
3	418 J2-2	891 J2-2
4	426 J2-2	895 J2-2
5	430 J2-2	907 J2-2
6	434 J2-2	911 J2-2
7	810 J2-2	
8	899 J2-2	
9	903 J2-2	
10	1058 J2-2	
11	1074 J2-2	

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 (Batson and others, 1980). Sources for the series were 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 Callisto are based on a sphere with a radius of 2400 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, Saga, is centered on lat 0.6° N, long 326°.

MAPPING TECHNIQUE
Digital mosaics were assembled at a digital scale of 1/32° (1.3 km) per pixel according to methods described by Batson (1987) and Edwards (1987) and transformed to the projections described above. Details from an unpublished, 1:15,000,000-scale, airbrush drawing were combined with the mosaic in regions where image data were very poorly resolved. The mosaic was retouched to obtain uniform tonal balance. Extreme variations in picture resolution precluded comparable display of the images used for the map compilation. Further limitations were imposed by dark albedo markings, which tend to obscure distinctive surface details.

Digital processing and mosaicking were done by Kevin F. Mullins.

NOMENCLATURE
Names on this sheet are approved by the International Astronomical Union (1980, 1988).
Jc 5M 0/180 CMN: Abbreviation for Jupiter, Callisto (satellite); 1:5,000,000 series; center of sheet, lat 0°, long 180°; controlled photomosaic (CM), nomenclature (N).
Jc-8: Abbreviation for Jupiter, Callisto, sheet 8.

REFERENCES
Batson, R.M., 1987, Digital cartography of the planets: New methods, its status, and its future: Photogrammetric Engineering and Remote Sensing, v. 53, no. 9, p. 1211-1218.
Batson, R.M., Bridges, P.M., Inge, J.L., Isbell, Christopher, Masursky, Harold, Strobel, M.E., and Tyner, 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.
Edwards, Kathleen, 1987, Geometric processing of digital images of the planets: Photogrammetric Engineering and Remote Sensing, v. 53, no. 9, p. 1219-1222.
International Astronomical Union, 1980, Working Group for Planetary System Nomenclature, in 17th General Assembly, Montreal, 1979, Transactions: International Astronomical Union Proceedings, v. 17B, p. 297-304.
International Astronomical Union, 1988, Working Group for Planetary System Nomenclature, in 20th General Assembly, Baltimore, 1988, Transactions: International Astronomical Union Reports on Astronomy, v. 20A, p. 706.

CONTROLLED PHOTOMOSAIC OF THE VIDARR QUADRANGLE OF CALLISTO

Jc 5M 0/180 CMN

(Jc-8)
1990

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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