

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

**CARTOGRAPHIC CONTROL**  
Meridian and polar stereographic projections used for the maps of Io are based on a sphere with a radius of 1816 km and a common scale of 1:4,268,000 at lat 45°. 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 Keszthelyi, 1983). The meridians are numbered according to the ephemeris position of the prime meridian of Io (Davies and Keszthelyi, 1983 IAU, 1980).

**MAPPING TECHNIQUE**  
A series of mosaics of Voyager 1 and 2 pictures was assembled at a 1:5,000,000 scale using projections described above. Sites, shapes, and positions of features were taken from the base mosaic using control 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 necessarily represent the color of Io.

Image analysis and airbrush representation were made by Patricia M. Bridges.

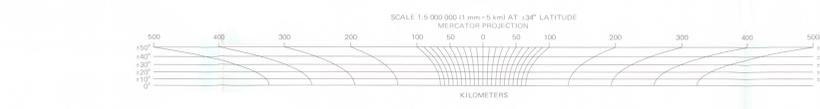
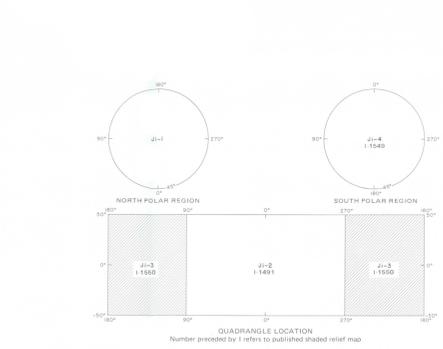
**NOMENCLATURE**  
Names on this sheet are approved by the International Astronomical Union (IAU), 1977 and 1980 except for the provisional names listed below.

Provisional names: Bolidus Montes, Danche Planus, Heish Patera, and Lycea Planus.

Ji 5M 0/180 AN: Abbreviation for Jupiter, Io (satellite), 1:5,000,000 series, center of sheet, lat 0°, long 180°; shaded relief with albedo markings (A), nonshaded (N).

Ji-3: Abbreviation for Jupiter, Io; sheet 3.

**REFERENCES**  
Bridges, P. M., Inge, J. L., Ingh, Christopher, Masursky, Harold, Shoemaker, M. E., and Tyler, P. L., 1980, Mapping the Galilean satellites of Jupiter with Voyager data, Photogrammetric Engineering and Remote Sensing, v. 46, no. 10, p. 1303-1312.  
Davies, R. E., and Keszthelyi, Z. S., 1981, Coordinates of features on the Galilean satellites, Journal of Geophysical Research, v. 86, no. 4, p. 6633-6637.  
Inge, J. L., 1972, Principles of lunar cartography, in: International Chart and Information Center Reference Publication 83-72-1, 66 p.  
Inge, J. L., and Bridges, P. M., 1976, Applied photogrammetry for airbrush cartography, Photogrammetric Engineering and Remote Sensing, v. 42, no. 4, p. 787-790.  
International Astronomical Union, 1977, Working Group for Planetary System Nomenclature, 14th General Assembly, Geneva, 1976, Proceedings, Inter national Astronomical Union Transactions, v. 148, p. 327-329.  
1979, Commission 4, Ephemerides, in: 13th General Assembly, Montreal, 1978, Proceedings, International Astronomical Union Transactions, v. 178, p. 63-65.  
1980, Working Group for Planetary System Nomenclature, in: 17th General Assembly, Montreal, 1979, Proceedings, International Astronomical Union Transactions, v. 178, p. 297-306.



**INDEX TO MAPPING SOURCES**  
The location 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 801, Goddard Space Flight Center, Greenbelt, MD 20771.

VOYAGER 1		VOYAGER 1		VOYAGER 2	
Picture No.	Index No.	Picture No.	Supplemental Source	Picture No.	Index No.
08810-1	11	08810-2	08810-1	11010-1	214-1
08810-2	12	08810-3	08810-2	11010-2	214-2
08810-3	13	08810-4	08810-3	11010-3	214-3
08810-4	14	08810-5	08810-4	11010-4	214-4
08810-5	15	08810-6	08810-5	11010-5	214-5
08810-6	16	08810-7	08810-6	11010-6	214-6
08810-7	17	08810-8	08810-7	11010-7	214-7
08810-8	18	08810-9	08810-8	11010-8	214-8
08810-9	19	08810-10	08810-9	11010-9	214-9
08810-10	20	08810-11	08810-10	11010-10	214-10
08810-11	21	08810-12	08810-11	11010-11	214-11
08810-12	22	08810-13	08810-12	11010-12	214-12
08810-13	23	08810-14	08810-13	11010-13	214-13
08810-14	24	08810-15	08810-14	11010-14	214-14
08810-15	25	08810-16	08810-15	11010-15	214-15
08810-16	26	08810-17	08810-16	11010-16	214-16
08810-17	27	08810-18	08810-17	11010-17	214-17
08810-18	28	08810-19	08810-18	11010-18	214-18
08810-19	29	08810-20	08810-19	11010-19	214-19
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08810-21	31	08810-22	08810-21	11010-21	214-21
08810-22	32	08810-23	08810-22	11010-22	214-22
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08810-25	35	08810-26	08810-25	11010-25	214-25
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08810-30	40	08810-31	08810-30	11010-30	214-30
08810-31	41	08810-32	08810-31	11010-31	214-31
08810-32	42	08810-33	08810-32	11010-32	214-32
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08810-34	44	08810-35	08810-34	11010-34	214-34
08810-35	45	08810-36	08810-35	11010-35	214-35
08810-36	46	08810-37	08810-36	11010-36	214-36
08810-37	47	08810-38	08810-37	11010-37	214-37
08810-38	48	08810-39	08810-38	11010-38	214-38
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08810-95	105	08810-96	08810-95	11010-95	214-95
08810-96	106	08810-97	08810-96	11010-96	214-96
08810-97	107	08810-98	08810-97	11010-97	214-97
08810-98	108	08810-99	08810-98	11010-98	214-98
08810-99	109	08810-100	08810-99	11010-99	214-99
08810-100	110	08810-101	08810-100	11010-100	214-100



**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.