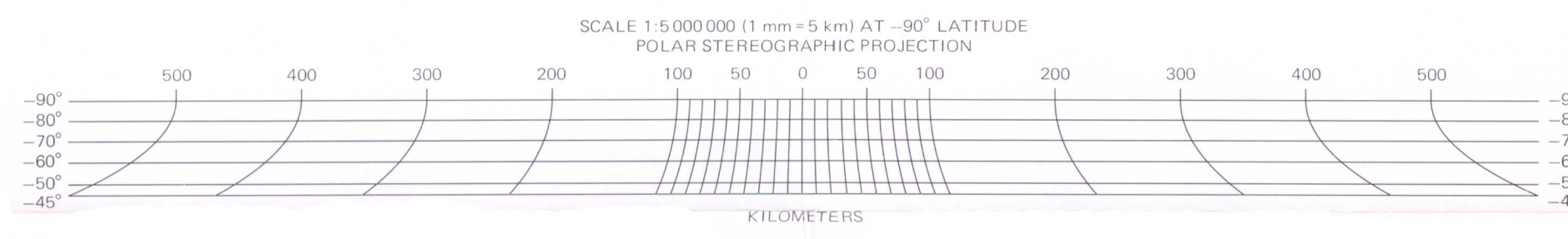
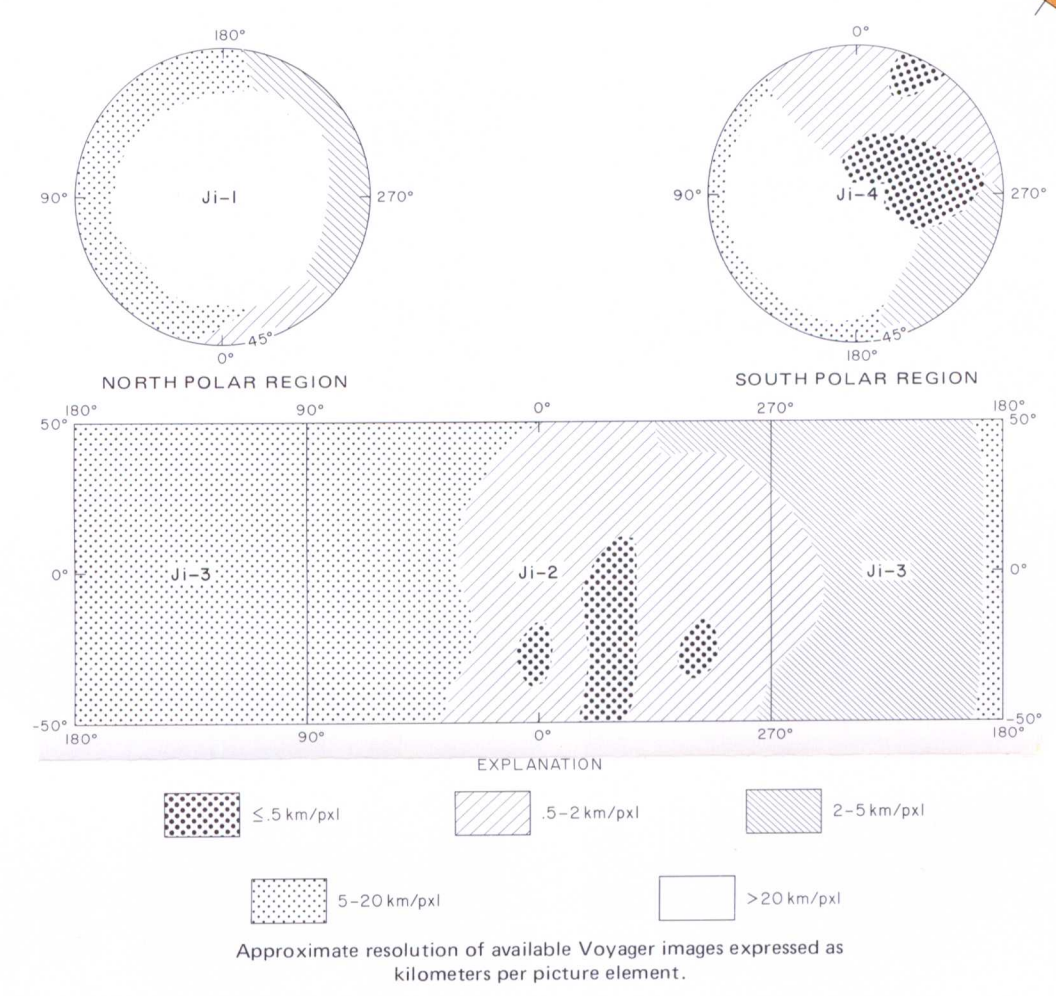


Interior—Geological Survey, Reston, Va.—1984—GB3300
Prepared on behalf of the Planetary Geology Program,
Planetary Division, Office of Space Science, National
Aeronautics and Space Administration under contract
W-13,709



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

CARTOGRAPHIC CONTROL
Mercator 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°. Longitudes increase to the west in accordance
with astronomical convention. Planimetric control was derived by
photogrammetric triangulation using Voyager 1 and 2 pictures (Davis
and Katayama, 1981). The meridians are numbered according to the
ephemeris position of the prime meridian of Io (Davis and Katayama,
1981; IAU, 1980a).

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 inter-
pretation 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 G.
Hagerty.

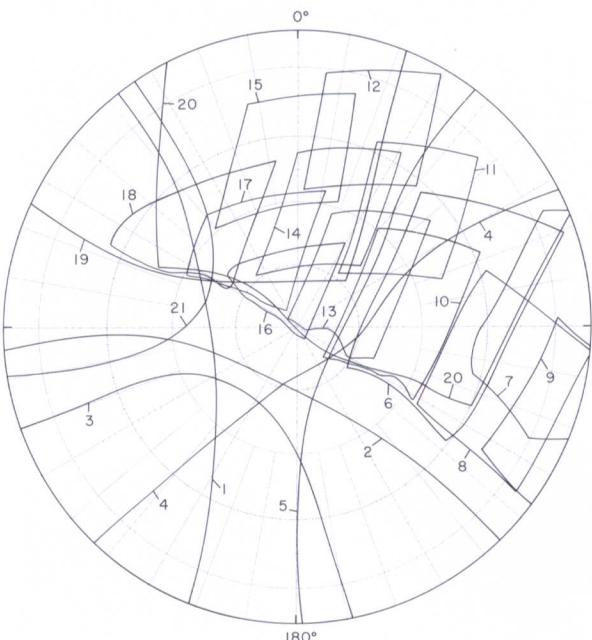
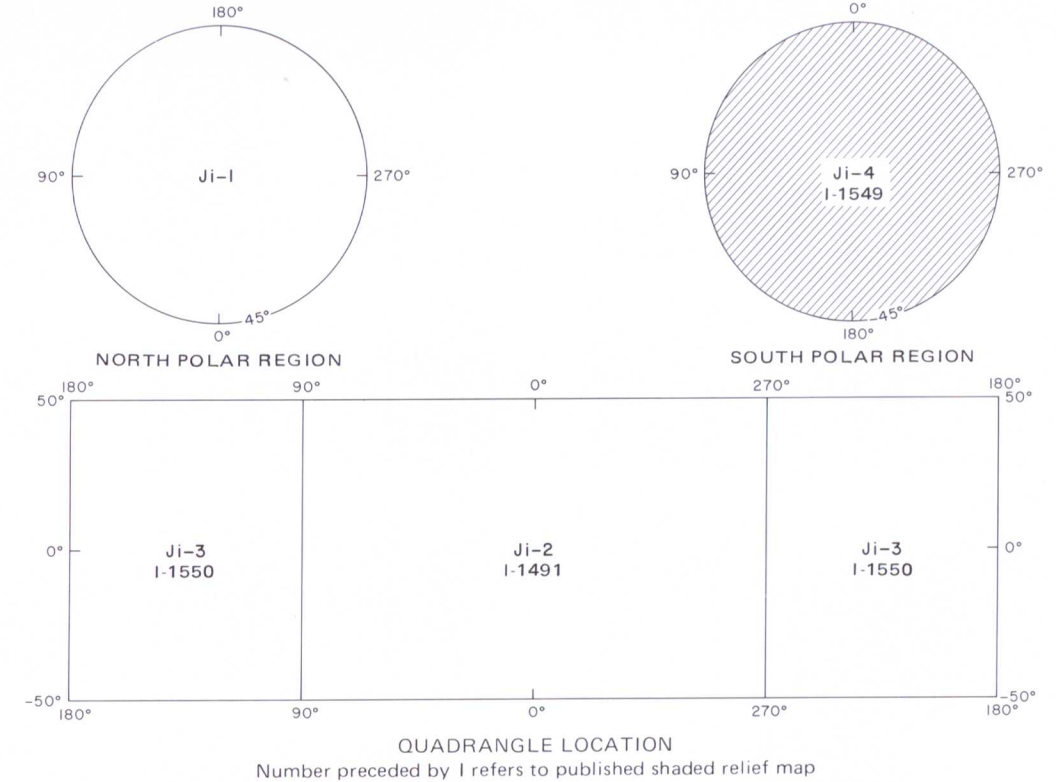
NOMENCLATURE
Names on this sheet are approved by the International Astronomical
Union (IAU, 1977 and 1980b) except for the provisional names listed
below.

Provisional names: Aramand Patera, Crimea Mons, Echo Mons, Epiphus
Mons, Hachava Patera, Hydris Patera, Ixus Mons, Five Patera,
Mithra Patera, Pan Mensa, Pycum Patera, Sun Patera, and Taranis Patera.

Ji 5M - 90/0 AN: Abbreviation for Jupiter, Io (asterisk); 1:5,000,000
series, center of sheet, lat 0°, S., long 0°, shaded
relief with albedo markings (A), nomenclature (N).

Ji4: Abbreviation for Jupiter, Io, sheet 4.

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Astronomical Union Transactions, v. 178, p. 297-304.



VOYAGER 1		VOYAGER 2		VOYAGER 1		VOYAGER 2	
Primary Source	Index No.	Picture No.	Picture No.	Supplemental Source	Picture No.	Picture No.	Picture No.
1	09841-001	13121-000	08801-000	08801-000	08801-000	08801-000	08801-000
2	09821-001	13061-002	18901-002	18901-002	08811-000	08811-000	08811-000
3	09801-001	12981-001	18821-001	18821-001	08821-000	08821-000	08821-000
4	09781-001	12901-001	18741-001	18741-001	08831-000	08831-000	08831-000
5	09761-001	12821-001	18661-001	18661-001	08841-000	08841-000	08841-000
6	09741-001	12741-001	18581-001	18581-001	08851-000	08851-000	08851-000
7	09721-001	12661-001	18501-001	18501-001	08861-000	08861-000	08861-000
8	09701-001	12581-001	18421-001	18421-001	08871-000	08871-000	08871-000
9	09681-001	12501-001	18341-001	18341-001	08881-000	08881-000	08881-000
10	09661-001	12421-001	18261-001	18261-001	08891-000	08891-000	08891-000
11	09641-001	12341-001	18181-001	18181-001	08901-000	08901-000	08901-000
12	09621-001	12261-001	18101-001	18101-001	08911-000	08911-000	08911-000
13	09601-001	12181-001	18021-001	18021-001	08921-000	08921-000	08921-000
14	09581-001	12101-001	17941-001	17941-001	08931-000	08931-000	08931-000
15	09561-001	12021-001	17861-001	17861-001	08941-000	08941-000	08941-000
16	09541-001	11941-001	17781-001	17781-001	08951-000	08951-000	08951-000
17	09521-001	11861-001	17701-001	17701-001	08961-000	08961-000	08961-000
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19	09481-001	11701-001	17541-001	17541-001	08981-000	08981-000	08981-000
20	09461-001	11621-001	17461-001	17461-001	08991-000	08991-000	08991-000

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.

SHADED RELIEF AND SURFACE MARKINGS OF THE LERNA REGION OF IO
Ji-4
Ji 5M - 90/0 AN
1984

NOTE TO USERS
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