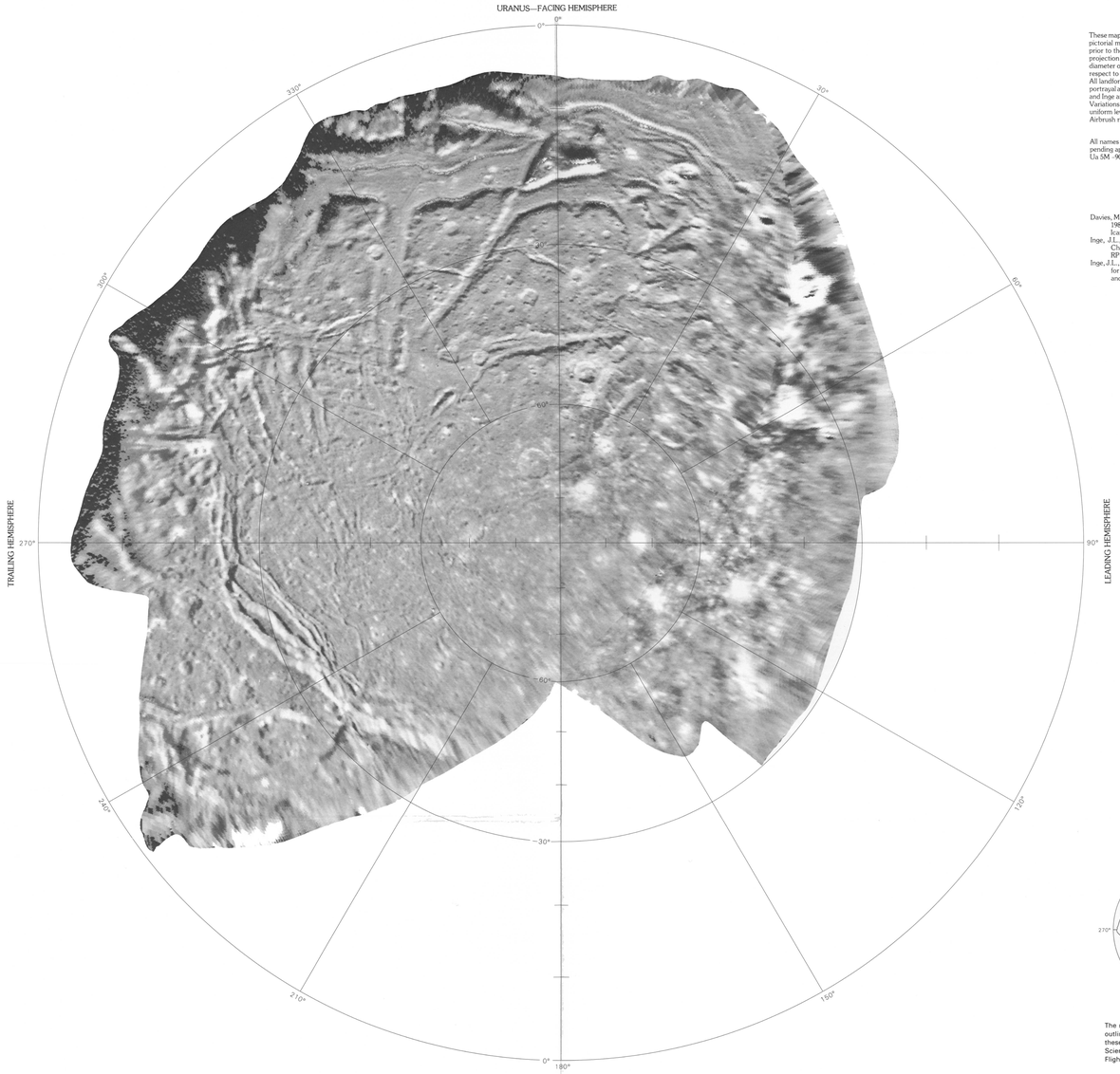
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared for the
VOYAGER IMAGING SCIENCE TEAM
in cooperation with the
JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY
AND THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ATLAS OF URANIAN SATELLITES
1:5,000,000 TOPOGRAPHIC SERIES
ARIEL, 1988
I–1920 (SHEET 2 OF 3)

URANUS—FACING HEMISPHERE



CONTROLLED PHOTOMOSAIC
Ua 5M –90/0 CM

NOTES ON BASE

These maps were compiled from Voyager 2 images of Ariel. The pictorial map is based on a preliminary photomosaic compiled prior to the establishment of control. The Polar Stereographic projection used for these maps is based on a sphere with a diameter of 1158 km. Average position error of the mosaic with respect to control (Davies and others, 1987) is less than 5 km. All landforms are shown as if illuminated from the south using portrayal and interpretation techniques described by Inge (1972) and Inge and Bridges (1976). Surface markings are also shown. Variations in image resolution precluded map portrayal at uniform levels of detail.

Airbrush representation was made by Jay L. Inge.

NOMENCLATURE

All names shown on the reduced base mosaic are provisional, pending approval by the International Astronomical Union.

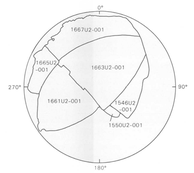
Ua 5M –90/0 CM or AN: Abbreviation for Uranus, Ariel (satellite), 1:5,000,000 series; center of map lat 90° S., long 0°; controlled photomosaic (CM), or shaded relief with albedo markings (A), nomenclature (N).

REFERENCES

Davies, M.E., Colvin, T.R., Katayama, F.Y., and Thomas, P.C., 1987, The control networks of the satellites of Uranus: Icarus, v. 17, no. 1, p. 137–147.

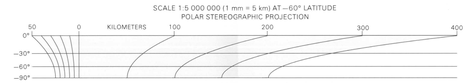
Inge, J.L., 1972, Principles of lunar illustration: Aeronautical Chart and Information Center Reference Publication RP–72–1, 60 p.

Inge, J.L., and Bridges, P.M., 1976, Applied photointerpretation for airbrush cartography: Photogrammetric Engineering and Remote Sensing, v. 42, no. 6, p. 749–760.

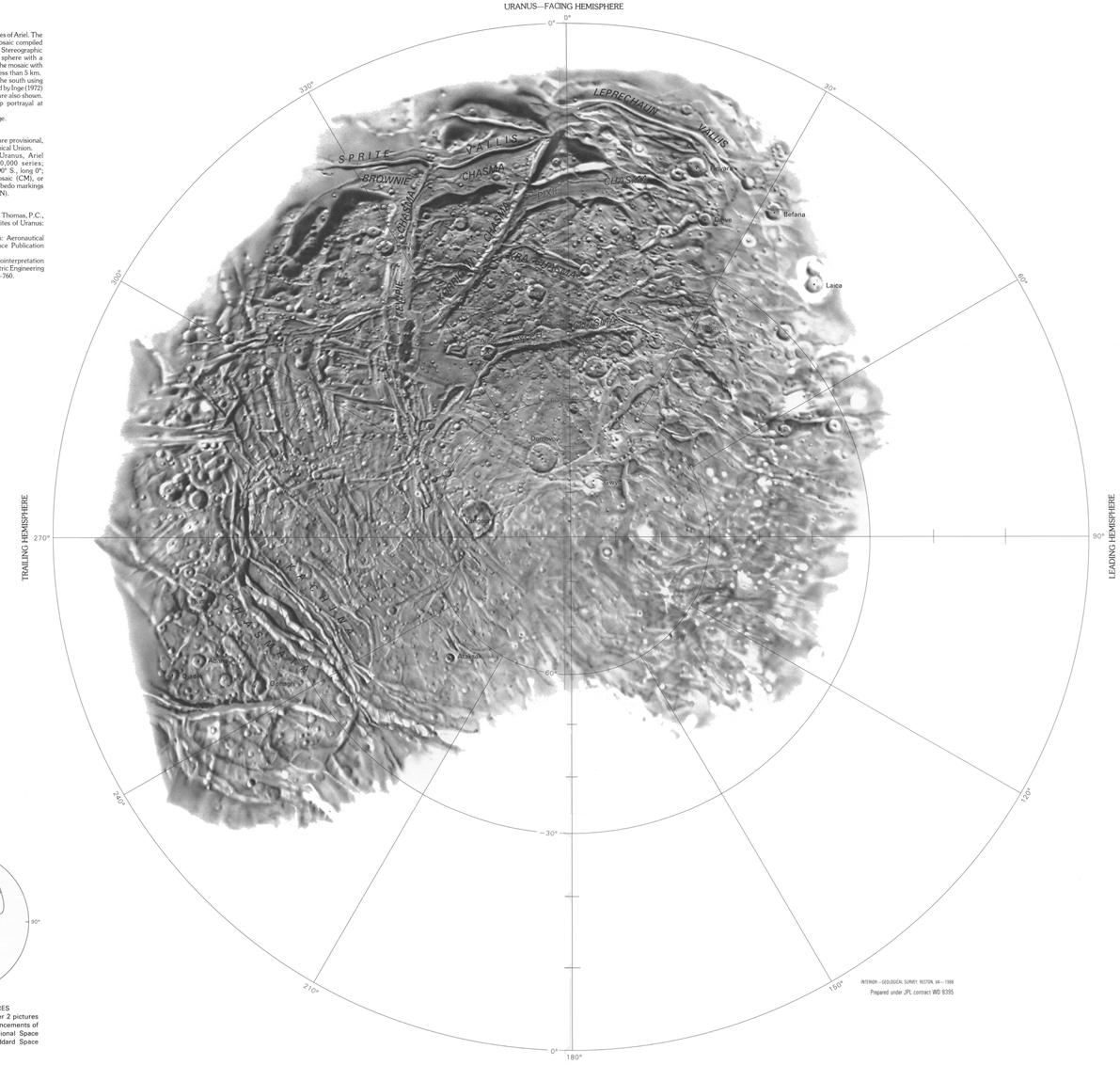


INDEX OF VOYAGER 2 PICTURES
The mosaic was made with the Voyager 2 pictures outlined above. Copies of various enhancements of these pictures are available from National Space Science Data Center, Code 601, Goddard Space Flight Center, Greenbelt, MD 20771.

SCALE 1:5 000 000 (1 mm = 5 km) AT –60° LATITUDE
POLAR STEREOGRAPHIC PROJECTION



URANUS—FACING HEMISPHERE



INTERIOR—GEOLOGICAL SURVEY, RESTON, VA—1988
Prepared under JPL contract WO 8395

PICTORIAL MAP
Ua 5M –90/0 AN

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.

THE SOUTHERN HEMISPHERE OF ARIEL
1988