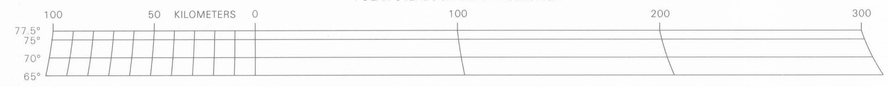
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared for the
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ATLAS OF MARS
1:2,000,000 TOPOGRAPHIC SERIES
MARE BOREUM H QUADRANGLE
M 2M 71/248 CM, 1985
I-1672 (MC-1 H)

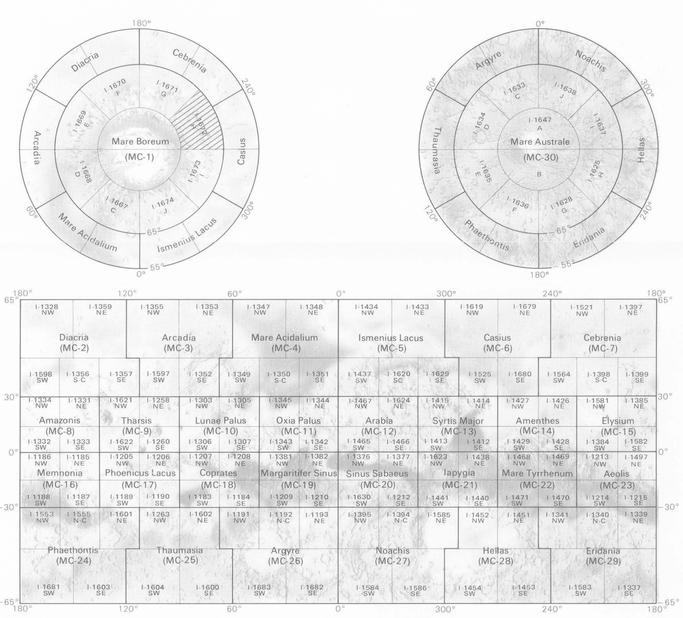
This photomosaic is part of a series of quadrangles made from a special set of Viking Orbiter images acquired specifically for systematic global mapping. Image resolution is 130 to 300 m per picture element. The average sun elevation angle is 20° (solar zenith angle 70°). The images have been digitally enhanced by the Jet Propulsion Laboratory's Mission and Test Imaging System to accentuate high-frequency detail. Image placement was based on the 1978 control net (Davies, M. E., and others, 1978, Control net of Mars: February 1978: The Rand Corp. R-2309-NASA). At least 66 percent of the image control points lie within 0.5 mm (1 km) of their published locations. Precise geometric transformation of the highly oblique Viking Orbiter pictures taken in the polar regions is not possible. Discrepancies between adjacent frames are as large as 10 mm, primarily in the east-west direction.

SCALE 1:2 000 000 (1 mm = 2 km) AT 75.008°
POLAR STEREOGRAPHIC PROJECTION

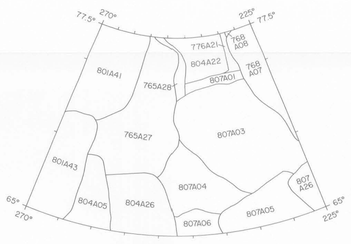


Interior—Geological Survey, Reston, Va.—1985—G85045

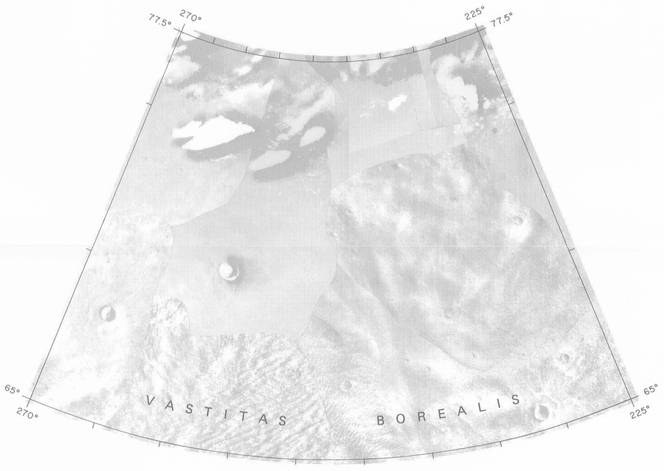
Prepared on behalf of the Mars Data Analysis Program, Planetary Division, Office of Space Science, National Aeronautics and Space Administration, under contract W-14,575.



INDEX OF PUBLISHED PHOTOMOSAICS
Quadrangle availability is indicated by an "I" series number.



INDEX TO VIKING PICTURES
The mosaic was made with the Viking 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.



LOCATION OF SELECTED FEATURES
Contrast in the reduced base mosaic was purposely suppressed to emphasize the names.

CONTROLLED PHOTOMOSAIC OF THE MARE BOREUM H QUADRANGLE OF MARS

M 2M 71/248 CM

MC-1 H

1985

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.

For sale by Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202, and Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225