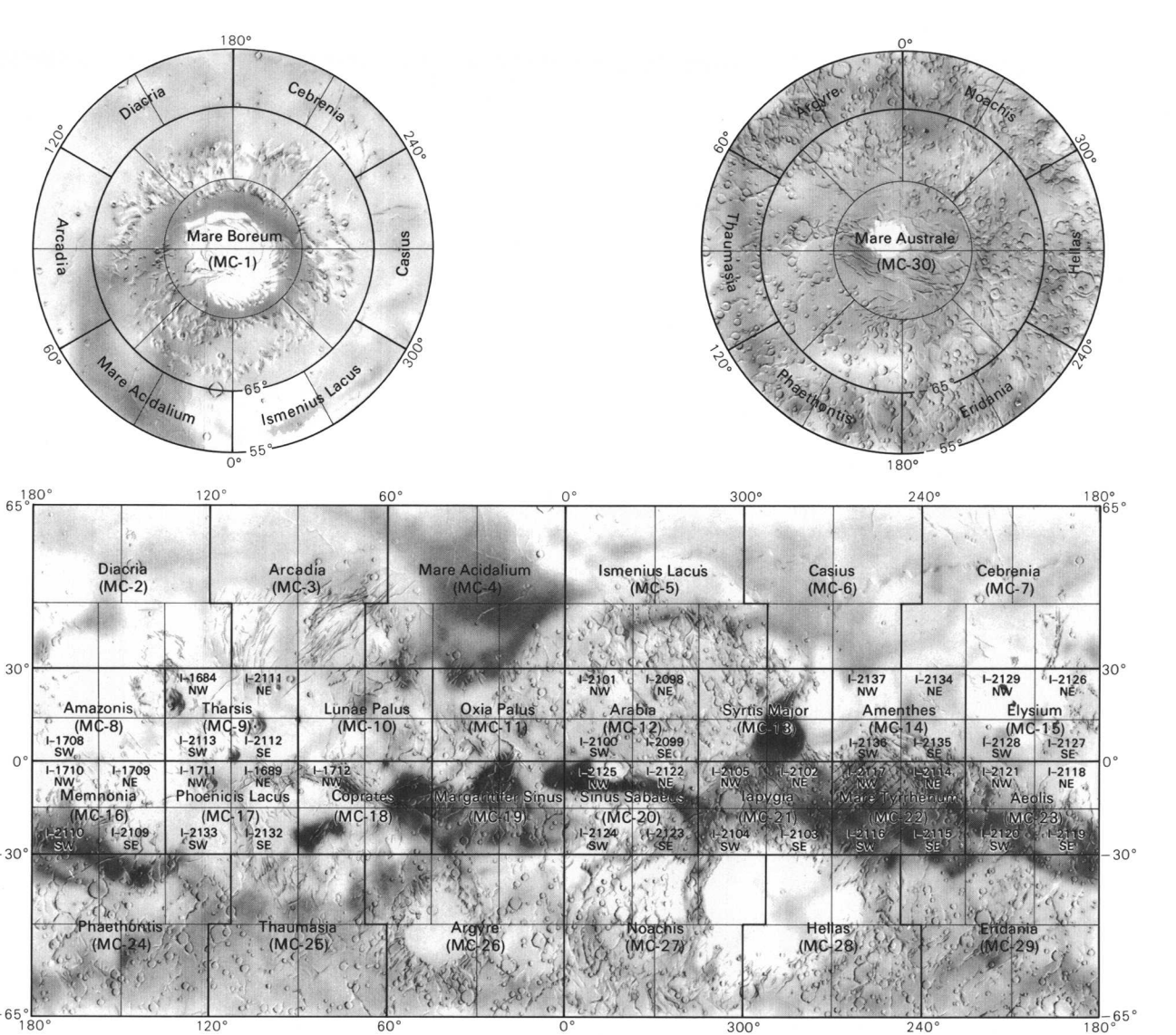
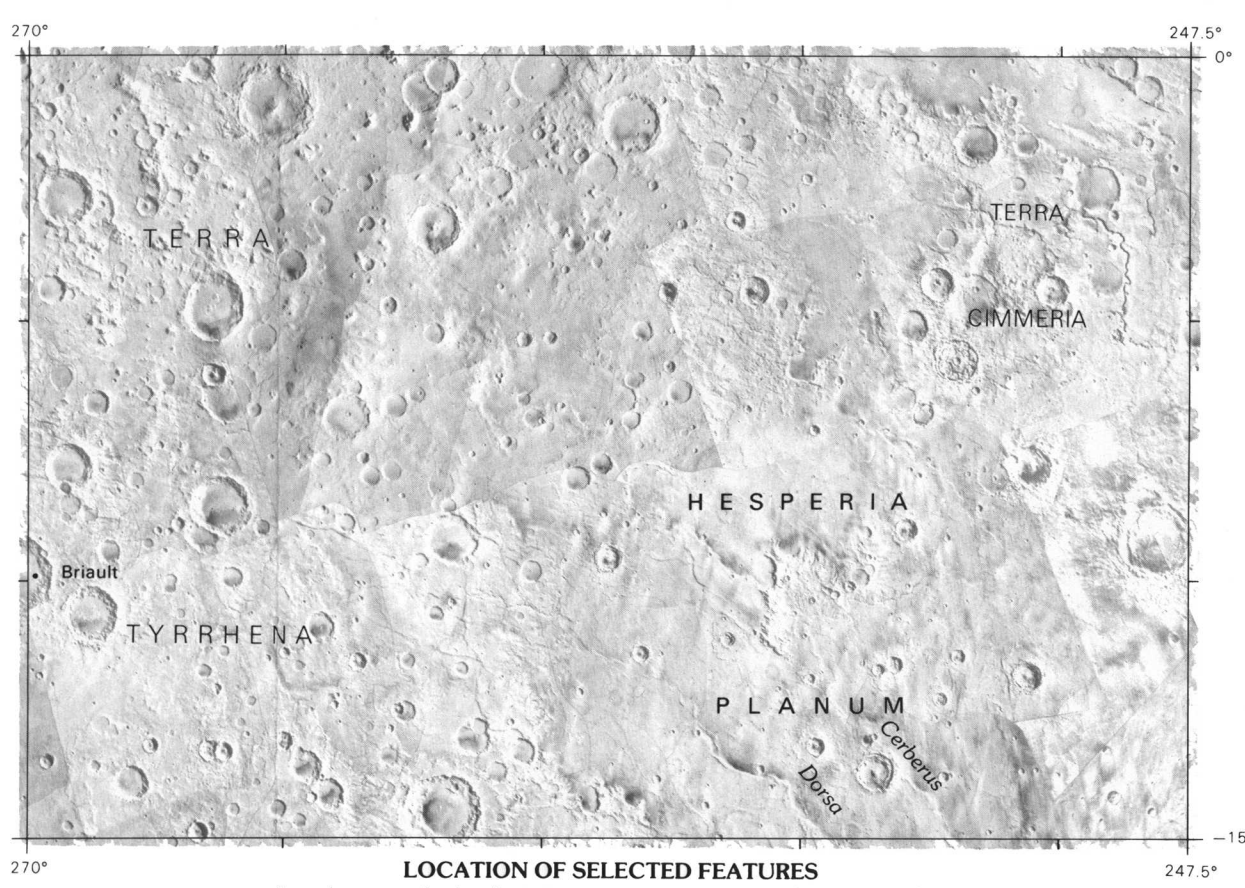
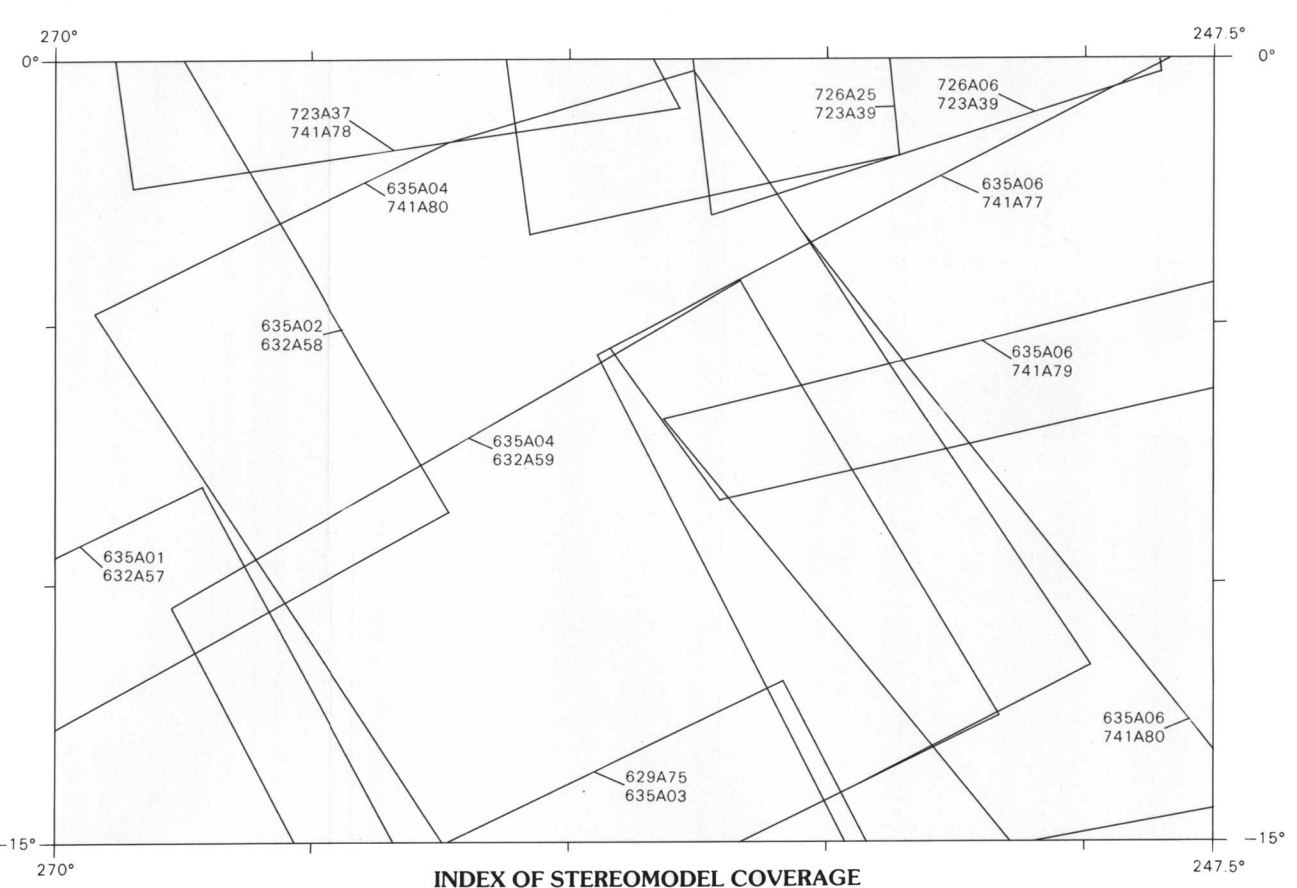
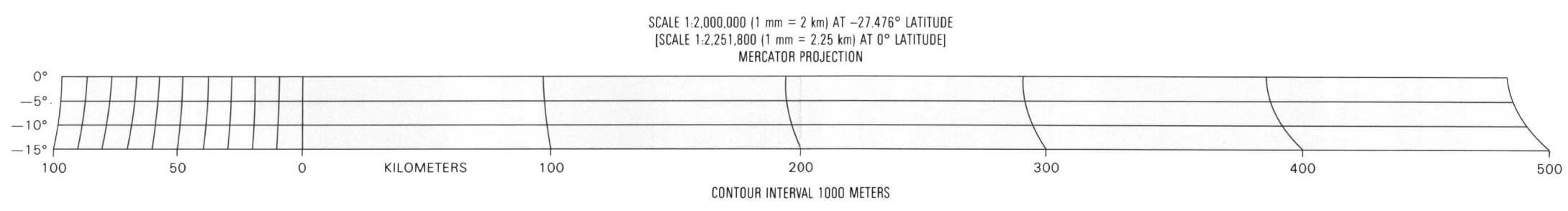


NOTES ON BASE
This quadrangle is part of a series of topographic maps made from stereoscopic Viking Orbiter images.
ADOPTED FIGURE
The figure of Mars used for computation of the map projection is an oblate spheroid (flattening of 1/192) with an equatorial radius of 3,393.4 km and a polar radius of 3,275.7 km.
PROJECTION
Mercator, Lambert Conformal Conic, and Polar Stereographic projections are used for this map series. The scale of the series is 1:2,000,000 at lat ±27.476° (Mercator), lat ±35.83° and ±59.17° (Lambert), and lat ±75.908° (Polar Stereographic). The projections have common scales of 1:1,952,947 at lat ±30° and 1:1,939,394 at lat ±65°.

CONTOURS
Contours were compiled on analytical stereopairs that use stereoscopic Viking Orbiter pictures. The parameters for stereo-models were computed analytically, based on the adjusted positions and orientations of the spacecraft cameras (Wu and others, 1982). Horizontal and vertical controls were established by analytical photogrammetric aerotriangulation (Wu and Schafer, 1984), using the General Integral Analytical Triangulation (GIANT) program of the U.S. Geological Survey. Primary controls used in the control network include the Viking Orbiter Secondary Experiment Data Record, radio occultation measurements from Mariner 9 and Viking Missions (Klore and others, 1973; Lindal and others, 1979). Earth-based radar observations (Downs and others, 1972), and the Mars primary control network of the Rand Corporation (Davies and others, 1978). Elevation values (expressed in meters) are given with respect to the adopted Mars topographic datum. This datum is defined by a gravity field described in terms of fourth-order and fourth-degree spherical harmonics combined with a 6.1-millibar atmospheric pressure surface derived from Mariner 9 radio occultation data (Lorell and others, 1972; Klore and others, 1973; Wu, 1978, 1981). Local mismatches between contour lines shown here and images on controlled photomosaics are the result of improvements in controls during the course of compilation. Estimated elevation accuracy is approximately 1 km (one contour interval).

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INDEX OF STEREOIMAGE COVERAGE
This topographic map was made from the pairs of 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
In order to emphasize the names, contrast was purposely suppressed in this reduced copy of the controlled photomosaic (I-1468) of this quadrangle. All names are approved by the International Astronomical Union.

INDEX OF PUBLISHED TOPOGRAPHIC MAPS
Quadrangle availability is indicated by an "I" series number

TOPOGRAPHIC MAP OF THE MARE TYRRHENUM NORTHWEST QUADRANGLE (MC-22 NW) OF MARS

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 412, 2255 North Gemini Drive, Flagstaff, AZ 86001. A replacement copy will be returned.

For sale by U.S. Geological Survey, Map Distribution, Box 25286, Federal Center, Denver, CO 80225