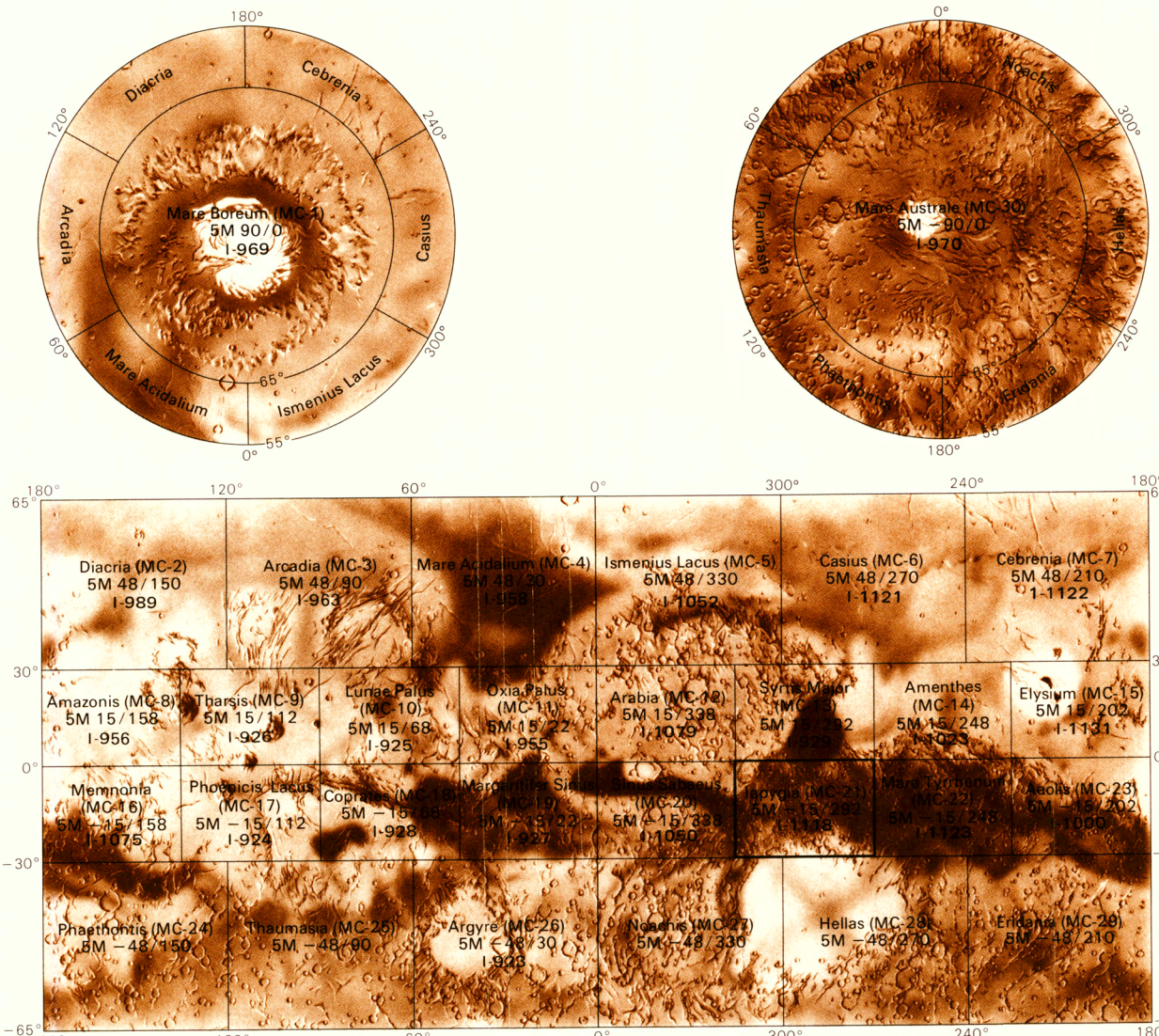


NOTES ON BASE
This is one map in a series of topographic map sheets covering the entire surface of Mars at nominal scales of 1:25,000,000 and 1:5,000,000 (Bates, 1973; 1976). The major source of map data was the Mariner 9 television experiment (Maurusky and others, 1970).
ADOPTED FIGURE
The figure of Mars used for the computation of the map projection is an oblate spheroid (flattening of 1/192) with an equatorial radius of 3393.4 km and a polar radius of 3375.7 km.
PROJECTION
The Mercator projection is used for this sheet, with a scale of 1:5,000,000 at the equator and 1:4,336,000 at lat 30°. Longitudes increase to the west in accordance with usage of the International Astronomical Union (IAU, 1971). Latitudes are areographic (de Vaucouleurs and others, 1973).
CONTROL
Planimetric control is provided by photogrammetric triangulation using Mariner 9 pictures (Davies, 1973; Davies and Arthur, 1973) and the radio-tracked position of the spacecraft. The first meridian passes through the crater Airy-0 (lat 5.10° S) within the crater Airy. No simple statement is possible for the precision, but local consistency is about 10 km.
MAPPING TECHNIQUE
A series of mosaics of Mercator projections of Mariner 9 pictures was assembled at 1:5,000,000. Shaded relief was copied from the mosaics and portrayed with uniform illumination with the sun to the west. Many Mariner 9 pictures besides those in the base mosaic were examined to improve the portrayal (Levinthal and others, 1973; Green and others, 1975; Inge and Bridges, 1976). The shading is not generalization and may be interpreted with nearly photographic reliability (Inge, 1972). Shaded relief analysis and representation were made by Barbara J. Hall.
COLOR
No attempt was made on the map to duplicate precisely the color of the Martian surface, although the color used does approximate it.
NOMENCLATURE
All names on this sheet are approved by the International Astronomical Union (IAU, 1974), except Terra Tyrrhena which is proposed. Double and triple letter designations for craters refer to position on the map and are derived from a grid based on equidistant meridians and parallels; the alphabet (I and O omitted) runs in the direction of increasing longitude (W) and latitude (N). The complete designation of a crater is the name of the quadrangle followed by double or triple letter. The prefix IAP (identifying the Iapygia quadrangle) is part of the complete designation but, for brevity, is not shown on most craters. Some craters have commemorative names; letter designations for these craters are shown in parentheses. Where craters lie mostly on an adjoining map, their letters are derived from the other map; where craters lie exactly on the boundary of two maps, their letters are derived from the eastern or southern map.
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QUADRANGLE LOCATION
Number preceded by I refers to published shaded relief map

Always features from International Photo-
top. Photo-photographs. Lower Observa-
tory, Flagstaff, Ariz.

Prepared for the
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

North

South

Scale 1:5,000,000 at 0° latitude
Mercator projection

0° 10° 20° 30° 40° 50° 60° 70° 80° 90° 100° 110° 120° 130° 140° 150° 160° 170° 180°

0° 10° 20° 30° 40° 50° 60° 70° 80° 90° 100° 110° 120° 130° 140° 150° 160° 170° 180°

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