

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 3,375.7 km.

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 $\pm 27.476^\circ$ (Mercator), lat $\pm 35.83^\circ$ and $\pm 59.17^\circ$ (Lambert), and lat $\pm 75.008^\circ$ (Polar Stereographic). The projections have common scales of 1:1,952,947 at lat $\pm 30^\circ$ and 1:1,939,394 at lat $\pm 65^\circ$.

Contours were generated on analytical stereoplots that use stereoscopic Viking Orbiter pictures. The parameters for stereoplots were computed analytically, based on the adjusted coordinates of the Viking Orbiter (Schubert and others, 1982). Horizontal and vertical controls were established by analytical photogrammetric aerotriangulation (Wu and Schaller, 1984), using the General Integral Intersecting Lines (GIL) method (Schubert and others, 1982). Primary controls used in the control network include the Viking Orbiter Stereo Control Data Record, radio occultation measurements from Mariner 9 and Viking Missions (Klore and others, 1979; Schubert and others, 1982; Schubert and others, 1983; Downs and others, 1975), 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 datum of the Viking Orbiter, which is the Mars 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 measurements and others, 1972; Klore and others, 1975; Schubert and others, 1982; Schubert and others, 1983; Schubert, 1981).

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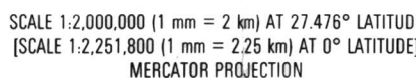
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Users noting errors or omissions are urged to indicate them on the map and to forward it to U.S. Geological Survey, Building 4, Room 412, 2255 North Gemini Drive, Flagstaff, AZ 86001. A replacement copy will be returned.



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.



In order to emphasize the names, contrast was purposely suppressed in this reduced copy of the controlled photomosaic (I-1465) of this quadrangle. All names are approved by the International Astronomical Union.



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