

#### NOTES ON BASE

This map is a radar image mosaic of part of the northern hemisphere of Venus prepared in respect planning and operations of the Magellan Mission to Venus. Topographic image information was taken almost exclusively from Venus 15 and 16 synthetic aperture radar (SAR) images and from uncontrolled and controlled radar image mosaics provided by the Institute of Radioengineering and Electronics, the Central Institute of Geodesy, Aerial Survey, and Cartography, Moscow (Alexandrov and others, 1985, 1986; Butko, 1987; U.S.S.R. Academy of Sciences, 1987, 1988; Butko, 1989) and radar altimetry (Kotelnikov and others, 1986, 1988).

All landforms are shown as they appear on the Venus radar images, illuminated from the east.

#### ADOPTED FIGURE

The figure of Venus used for compilation of this map projection is a sphere with a radius of 6051.0 km (Kotelnikov and others, 1988).

#### PROJECTION

The Polar Stereographic projection is used for this map, with a scale of 1:15,000,000 at lat 90° N and 1:18,201,561 at lat 90° N. Due to the retrograde rotation of Venus, longitude increases from east to west in accordance with usage of the International Astronomical Union (1983).

#### CONTROL

Planimetric control taken from the radar image mosaic provided by the U.S.S.R. that is based on the tracked position of the spacecraft (Akin and others, 1986; Tytlin and others, 1989). According to current (IAGU) convention, the 0° meridian passes through the center of a crystalline feature, Ene (lat 30° S), located within Alpha Regio, a feature of the southern hemisphere that is outside the area shown on this map (Masursky and others, 1988). No simple statement for accuracy can be given, but discrepancies as great as 10 km (31.7 ft) are likely to exist (Alexandrov and others, 1986; Tytlin and others, 1989).

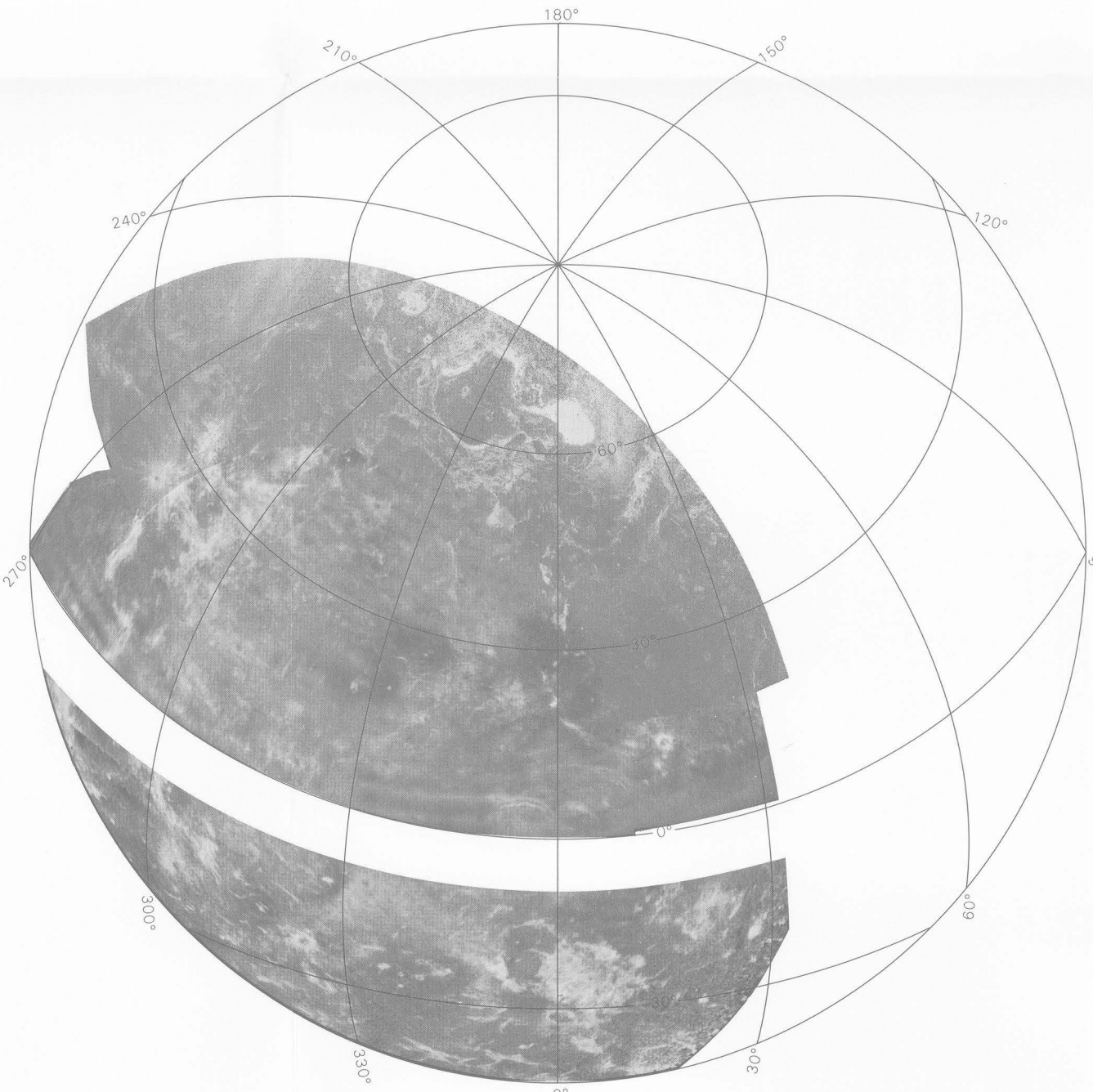
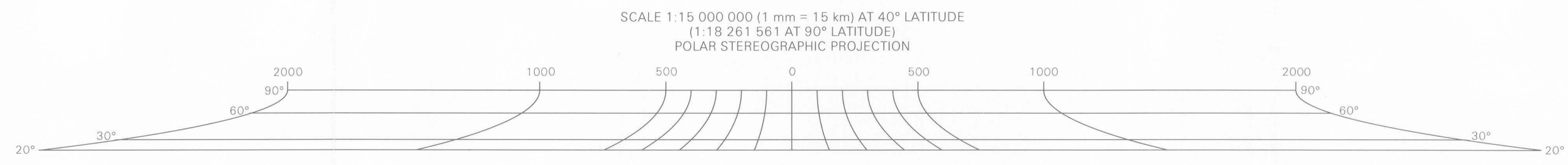
#### NUMERICALITY

V 15M 90/0 CM: Abbreviation for Venus: 1:15,000,000 series; control of sheet, lat 90° N, long 0°; corrected mosaic (CM).

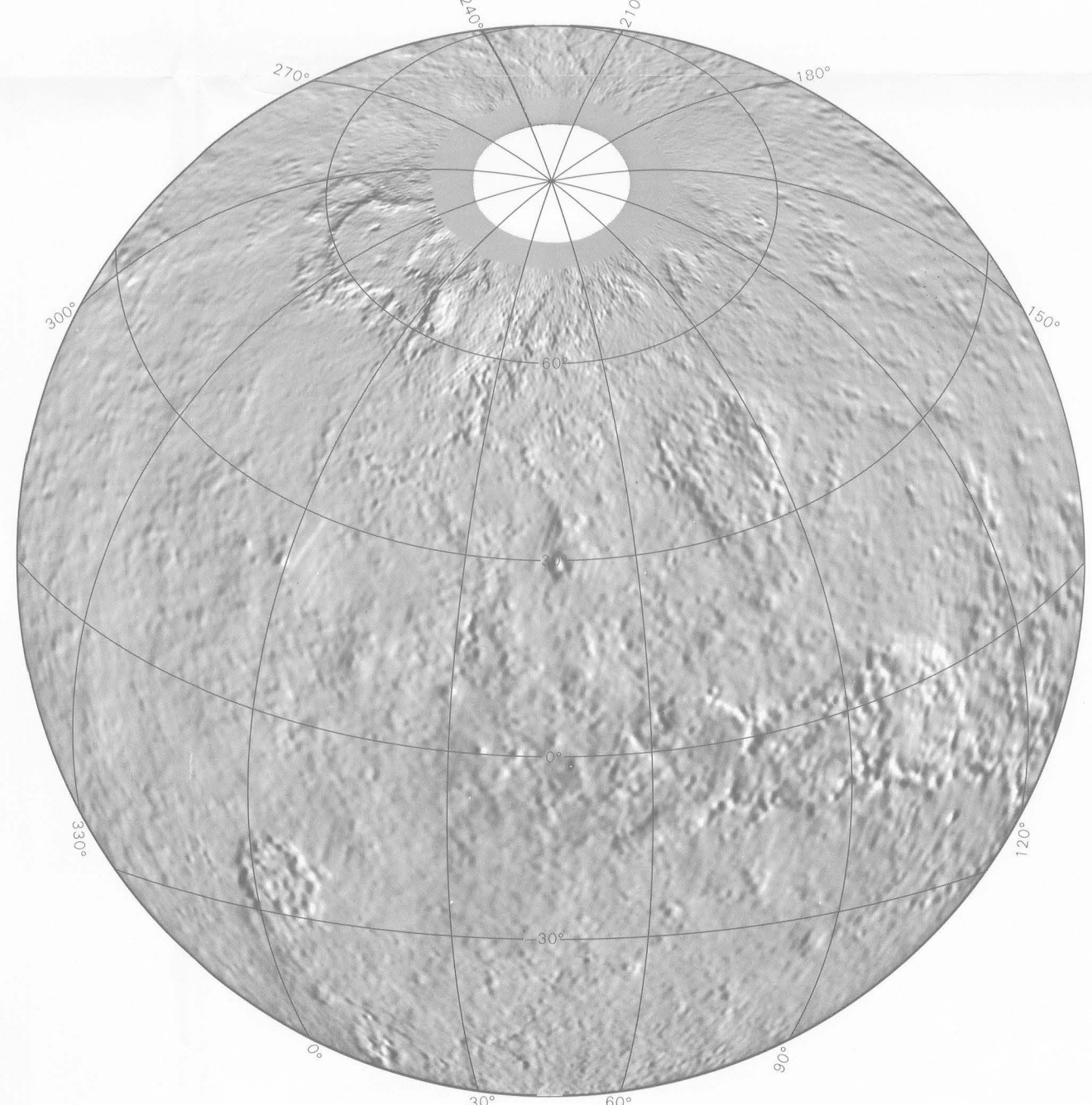
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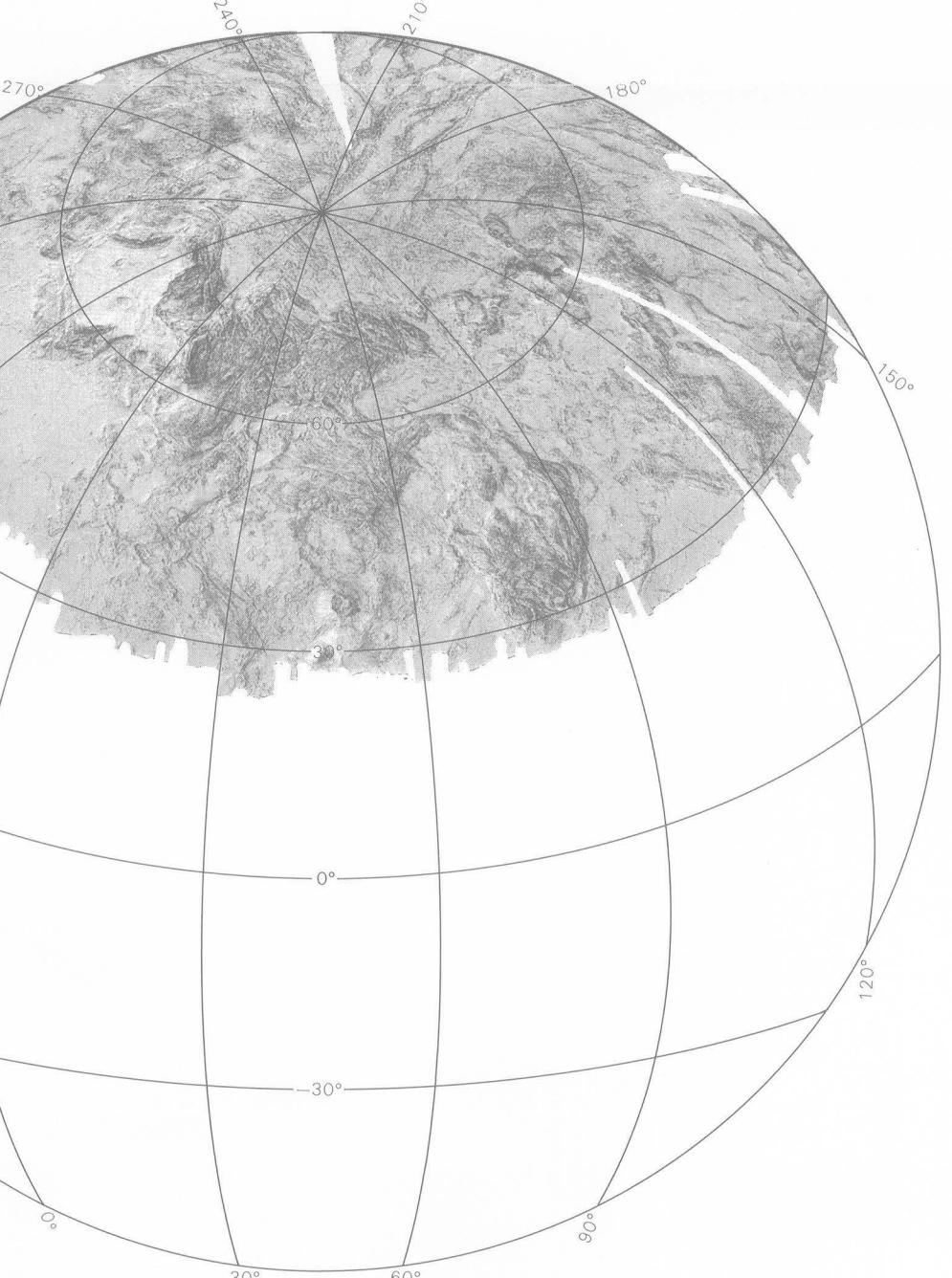
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LOCATION OF EARTH-BASED RADAR IMAGES  
(LAMBERT AZIMUTHAL EQUAL-AREA PROJECTION)



DIGITAL SHADED RELIEF MAP BASED ON PIONEER  
VENUS ALTIMETRIC MEASUREMENTS  
(LAMBERT AZIMUTHAL EQUAL-AREA PROJECTION)



LOCATION OF VENERA 15 AND 16 RADAR IMAGES  
(LAMBERT AZIMUTHAL EQUAL-AREA PROJECTION)