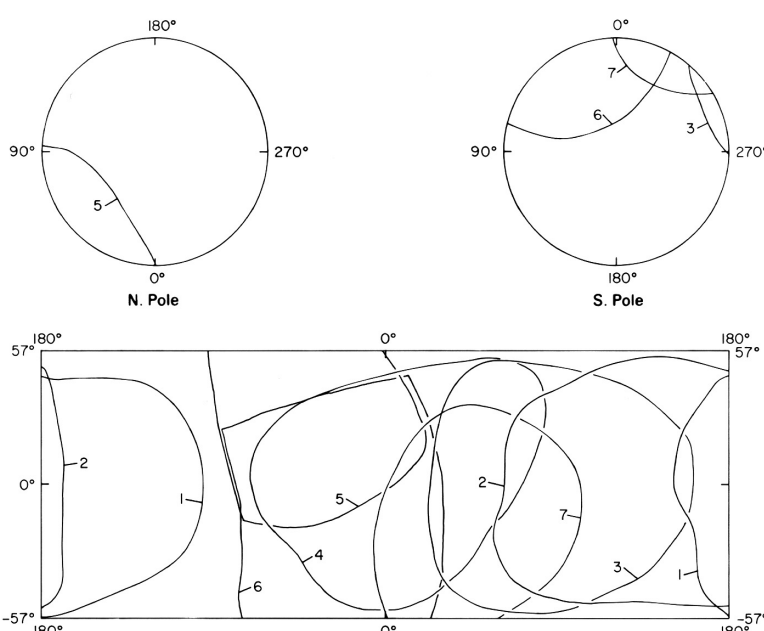
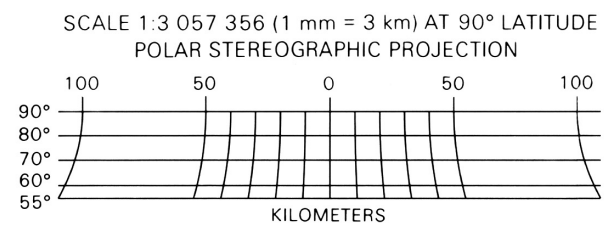


NORTH POLAR REGION



NOTES ON BASE
This map was compiled from Voyager 1 and 2 images of Dione. The Polar Stereographic and Mercator projections are based on a sphere with a diameter of 1,120 km. The projections have a common scale of 1:2,796,000 at lat 156°. Longitude increases to the west in accordance with astronomical convention. Meridians are numbered so that the reference crater, Palimurus, is centered on lat 3.6° S, long 63° (Davies and others, 1989). Other information regarding Saturnian satellite mapping was given by Batson and others (1984).

Digital mosaics were assembled at a digital scale of 1/8" (1.2 km) per pixel according to methods described by Batson (1987) and Edwards (1987), and they were transformed to the projections described above. All landforms are shown as if illuminated from the west by using interpretation techniques described by Inge and Bridges (1976). Surface markings are also shown. Differences in image resolution precluded map portrayal at uniform levels of detail. Airbrush representation was made by Jay L. Inge.

NOMENCLATURE
All names shown on this sheet are approved by the International Astronomical Union (IAU, 1983).
Sd 5M 3AN: Abbreviation for Saturn, Dione (satellite), 1:5,000,000 series, third edition; shaded relief with albedo markings (A), nomenclature (N).

REFERENCES
Batson, R.M., 1987, Digital cartography of the planets: New methods, its status, and its future: Photogrammetric Engineering and Remote Sensing, v. 53, no. 9, p. 1211-1218.

Batson, R.M., Bridges, P.M., Inge, J.L., Masursky, Harold, Mullins, K.F., Skiff, B.A., and Strobbe, M.E., 1984, Voyager 1 and 2 atlas of six Saturnian satellites: National Aeronautics and Space Administration, Special Publication 474, 175 p.

Davies, M.E., Abalakin, V.K., Bursa, M., Hunt, G.E., Lieske, J.H., Morando, B., Rapp, R.H., Seidelman, P.K., Sinclair, A.T., and Tyufin, Yu.S., 1989, Report of the IAU/IAG/COSPAR Working Group on Cartographic Coordinates and Rotational Elements of the Planets and Satellites: 1988. Celestial Mechanics and Dynamical Astronomy, v. 46, p. 187-204.

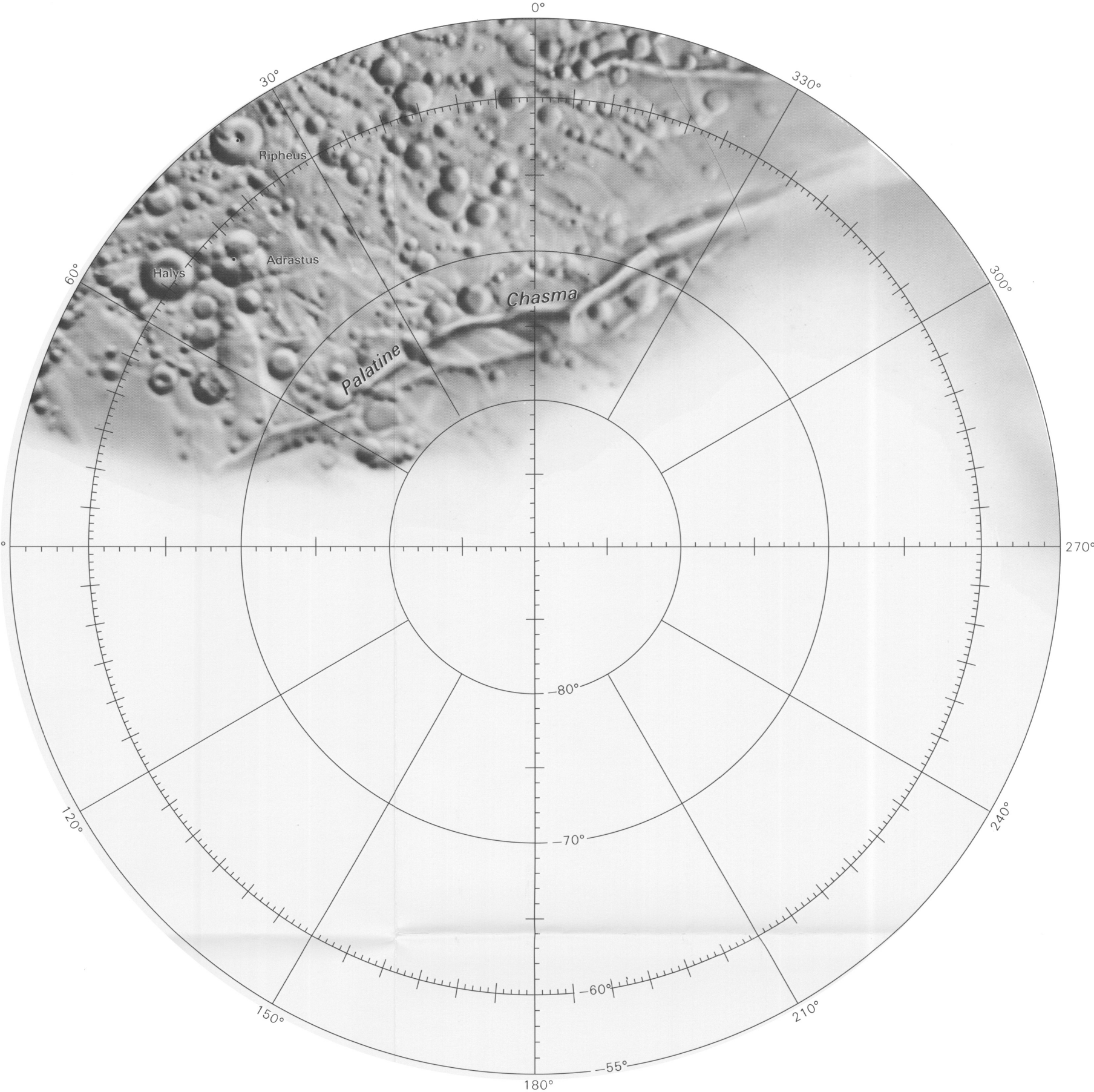
Edwards, Kathleen, 1987, Geometric processing of digital images of the planets: Photogrammetric Engineering and Remote Sensing, v. 53, no. 9, p. 1219-1222.

Inge, J.L., and Bridges, P.M., 1976, Applied photointerpretation for airbrush cartography: Photogrammetric Engineering and Remote Sensing, v. 42, no. 6, p. 749-760.

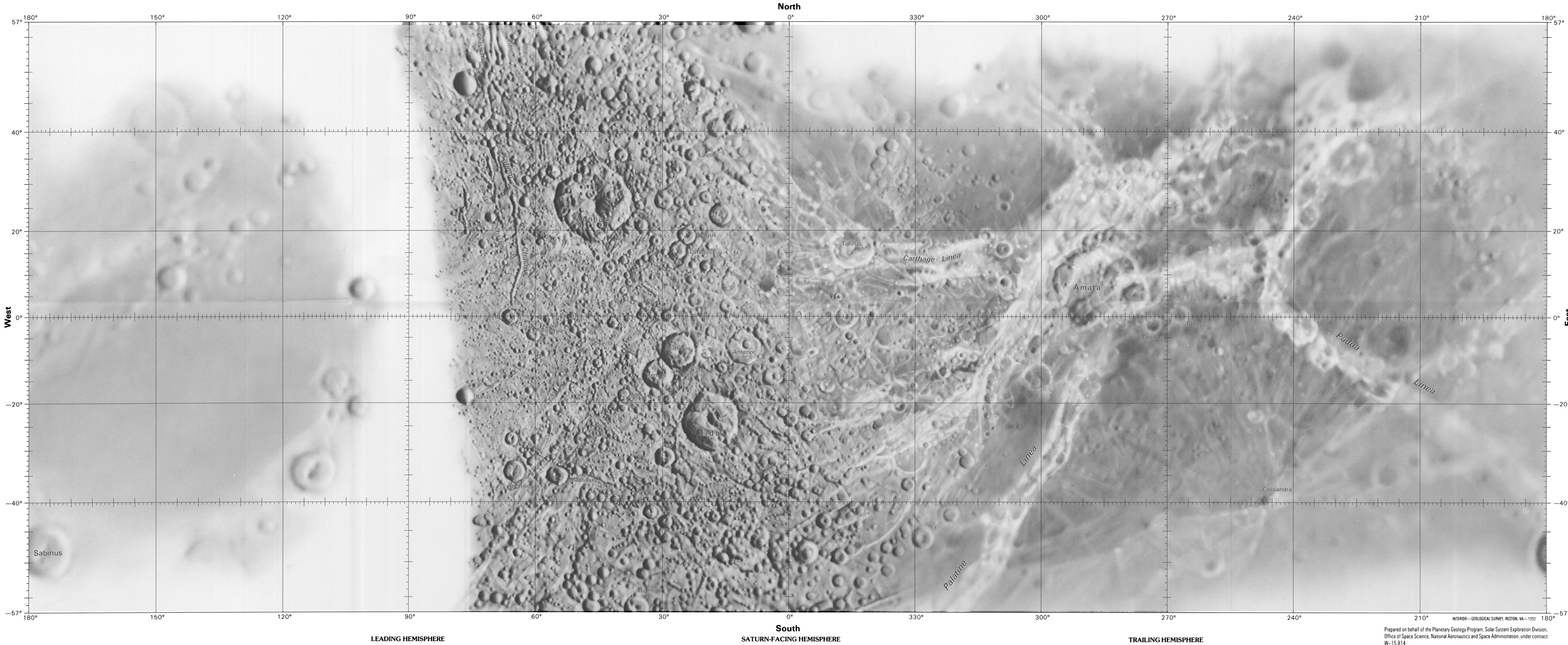
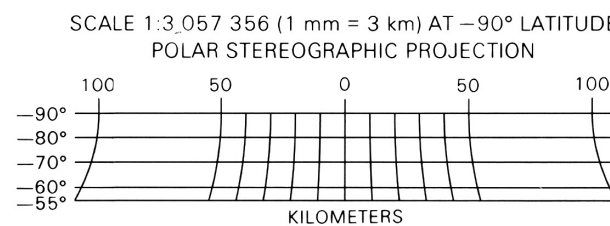
International Astronomical Union, 1983, Working Group for Planetary System Nomenclature, in Proceedings of the 18th General Assembly, Patras, 1982: Transactions of the International Astronomical Union, v. 18B, p. 341-342.

VOYAGER 1		VOYAGER 2		VOYAGER 1		VOYAGER 2	
Primary Source		Primary Source		Supplemental Source		Supplemental Source	
Index No.	Picture No.	Index No.	Picture No.	Index No.	Picture No.	Index No.	Picture No.
1	145151-002	7	107952-002	001151-001	14752-003	008651-001	008651-001
2	008651-001			008651-001		008651-001	
3	008651-001			008651-001		008651-001	
4	008651-001			008651-001		008651-001	
5	008651-001			008651-001		008651-001	
6	008651-001			008651-001		008651-001	

INDEX OF MAPPING SOURCES
The map was made from the Voyager 1 and 2 images outlined above. Supplemental source images used during compilation are listed separately. Copies of various enhancements of these images are available from National Space Science Data Center, Code 601, Goddard Space Flight Center, Greenbelt, MD 20771.



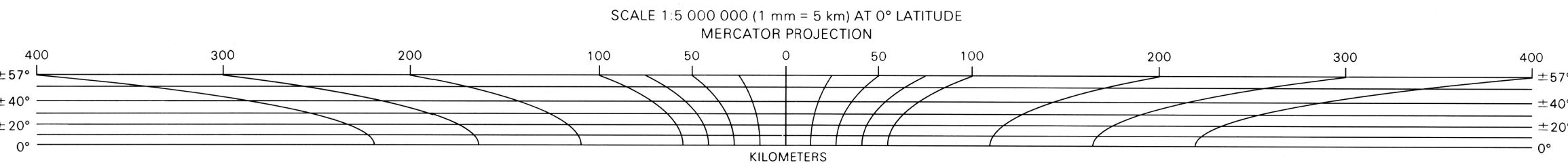
SOUTH POLAR REGION



LEADING HEMISPHERE

SATURN-FACING HEMISPHERE

TRAILING HEMISPHERE



PICTORIAL MAP OF DIONE

1992

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.

Prepared on behalf of the Planetary Geology Program, Solar System Exploration Division, Office of Space Science, National Aeronautics and Space Administration, under contract W-15814.
This map supersedes I-1488.
Manuscript approved for publication, February 18, 1990.

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