NORTH POLAR REGION

SCALE 1:5 592 000 (1 mm = 5.592 km)
AT 56° LATITUDE

90°
70°
55°
0   100   200   300 KILOMETERS

POLAR STEREOGRAPHIC PROJECTION

North

(LEADING HEMISPHERE)   South   (TRAILING HEMISPHERE)
(SATURN-FACING HEMISPHERE)

West ... East

SCALE: 1:10 000 000 (1 mm = 10 km)
AT 0° LATITUDE

±57°
±30°
0°
KILOMETERS   200   400   600
0

MERCATOR PROJECTION

Interior—Geological Survey, Reston, Va.—1982—G82218

Prepared under JPL contract WO 8395
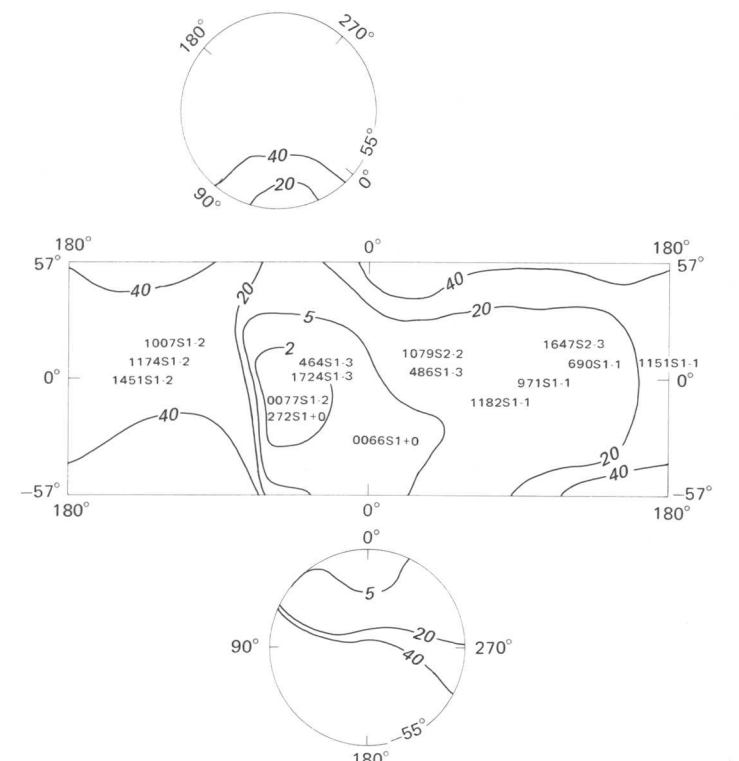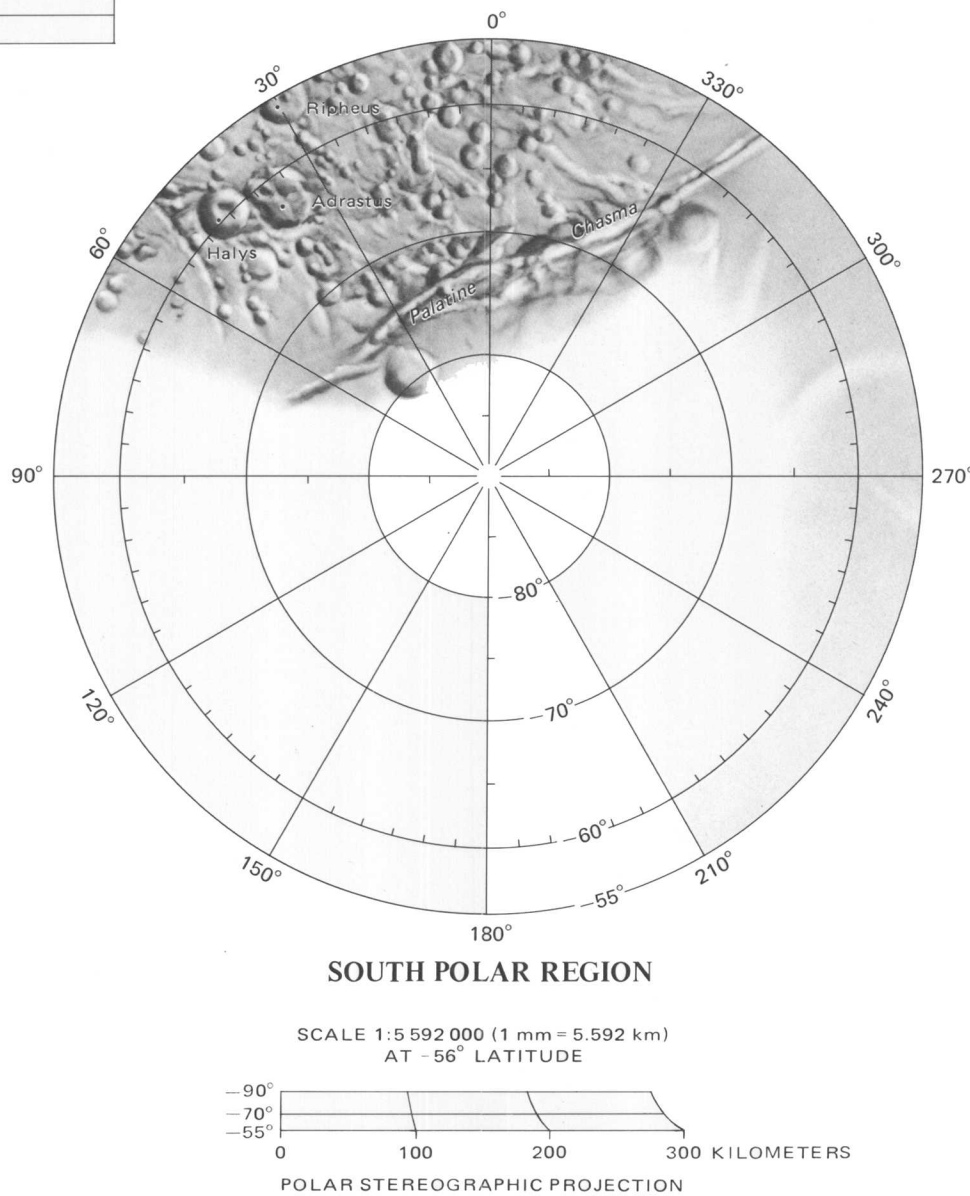
This map supersedes I-1389

This map was compiled from Voyager 1 and 2 images of Dione. Map controls are based on the known position and orientation of this satellite with respect to the spacecraft when each picture was taken. A scaled grid showing a perspective view of meridians and parallels was superimposed over each picture, and image details were transferred manually, grid cell by grid cell, to corresponding grid cells of Mercator and polar stereographic projections. The map projections are based on a sphere with a diameter of 1120 km, and a common scale at lat ±56°. Relative accuracy of feature placement is probably within 50 km over 66 percent of the map area.

All landforms are shown as if illuminated from the west, regardless of the illumination on the photographic source. Albedo markings are also shown. Consistent interpretation and subsequent portrayal of the Voyager pictures was limited by extreme variations in image resolution and by the suppression of relief details by albedo markings.

Airbrush representation was made by Patricia M. Bridges. Data preparation and preliminary image processing were done by K. F. Mullins, Christopher Isbell, E. M. Lee, H. G. Morgan, and B. A. Skiff. The work was directed by R. M. Batson.

Names of features shown on this sheet are provisional.

Sd 10M 2AN: Abbreviation for Saturn, Dione (satellite); 1:10,000,000 series; second edition; shaded relief with albedo markings (A), nomenclature (N).

SOUTH POLAR REGION

SCALE 1:5 592 000 (1 mm = 5.592 km)
AT -56° LATITUDE

90°
70°
55°
0   100   200   300 KILOMETERS

POLAR STEREOGRAPHIC PROJECTION

INDEX OF VOYAGER 1 AND 2
IMAGES USED TO COMPILE THE MAP
Picture numbers indicate the subspacecraft point at the time the picture was taken. Contour lines indicate the approximate resolution of available images, expressed as kilometers per picture element.

PRELIMINARY PICTORIAL MAP OF DIONE

Sd 10M 2AN
1982