

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

Prepared for the  
VOYAGER IMAGING TEAM  
in cooperation with the  
JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY  
AND THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ATLAS OF THE SATURNIAN SATELLITES  
1:5,000,000 TOPOGRAPHIC SERIES  
ENCELADUS  
Se 5M 1AN, 1982  
I-1485

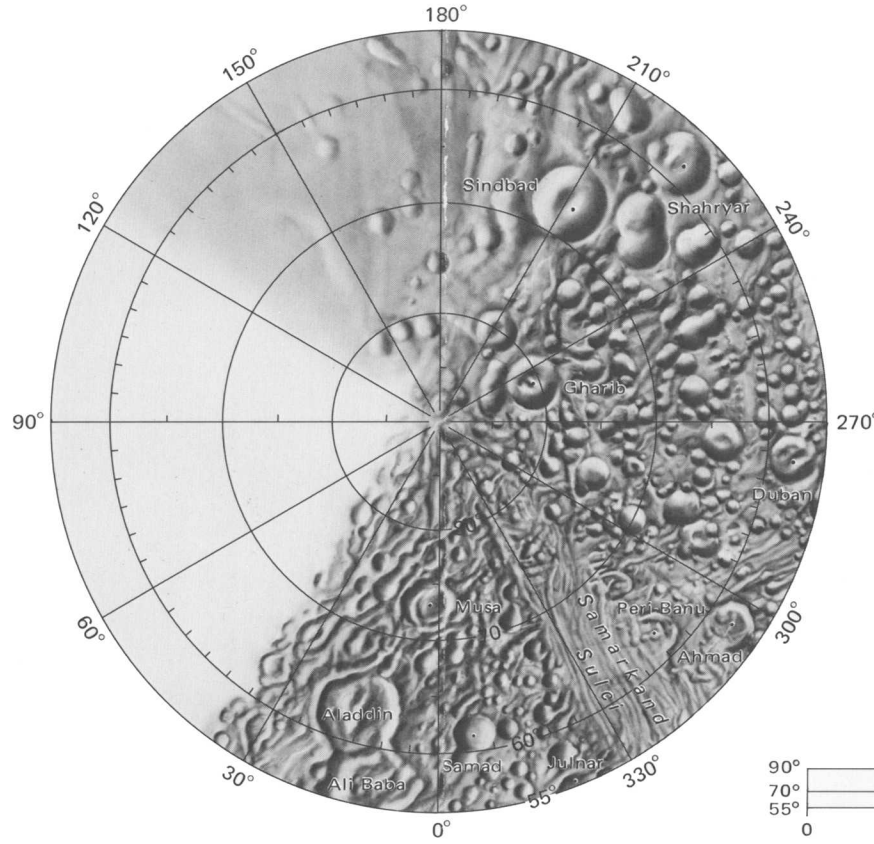
This map was compiled from Voyager 1 and 2 images of Enceladus. Map controls are based on the known position and orientation of this satellite with respect to the spacecraft when each picture was taken. A scaled grid showing a perspective view of meridians and parallels was superimposed over each picture, 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 500 km, and a common scale at lat  $\pm 56^\circ$ . Relative accuracy of feature placement is probably within 20 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.

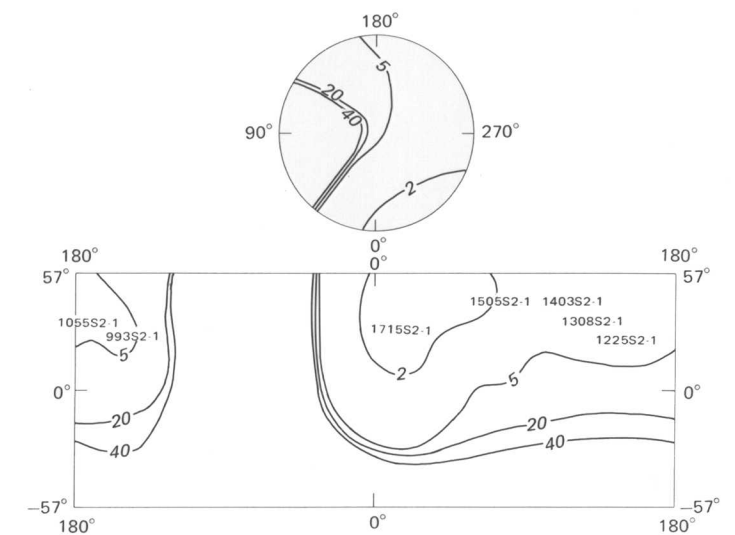
Airbrush representation was made by Patricia M. Bridges. Data preparation and preliminary image processing were done by K. F. Mullins, Christopher Isbell, E. M. Lee, H. G. Morgan, and B. A. Skiff. The work was directed by R. M. Batson.

Names of features shown on this sheet are provisional.

Se 5M 1AN: Abbreviation for Saturn, Enceladus (satellite); 1:5,000,000 series; first edition; shaded relief with albedo markings (A), nomenclature (N).



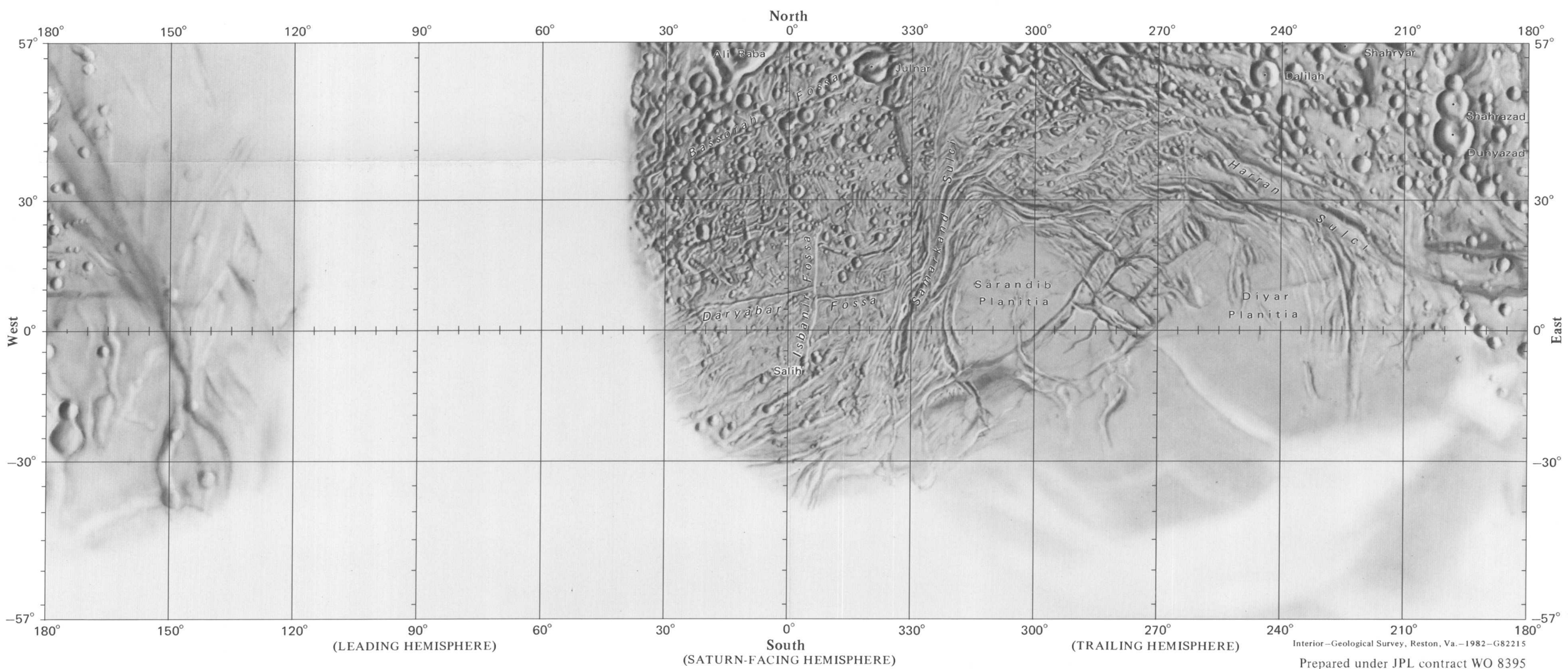
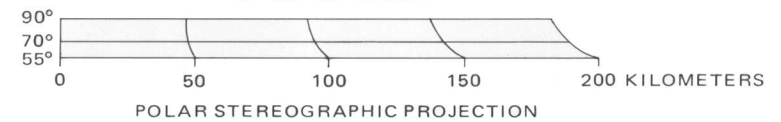
NORTH POLAR REGION



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.

SCALE 1:2 796 000 (1 mm = 2.796 km)  
AT 56° LATITUDE



SCALE: 1:5 000 000 (1 mm = 5 km)  
AT 0° LATITUDE



## PRELIMINARY PICTORIAL MAP OF ENCELADUS

Se 5M 1AN  
1982

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.

For sale by Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202, and Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225