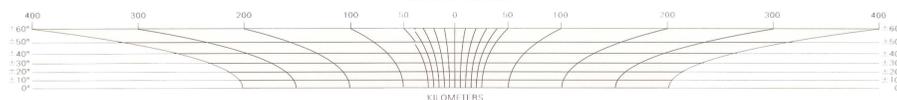


South
(NEPTUNE-FACING HEMISPHERE)

SCALE 1:5,000,000 (1 mm = 5 km) AT 43.34° LATITUDE
MERCATOR PROJECTION



NOTES ON BASE

This map was compiled from Voyager 2 images of Triton. The Mercator projection is based on a sphere with a diameter of 2,700 km. Because of the retrograde rotation of Triton, longitude increases to the east, in accordance with astronomical convention. Parametric control is based on information provided by the Navigation Ancillary Information Facility (NAIF) of the Jet Propulsion Laboratory. NAIF parameters (spectral position, camera orientation, and position and orientation of Triton) were used for the single Voyager frame (1550N2.001) covering the Neptune-facing hemisphere at the highest available resolution, as were spacecraft positions of all other frames. Camera orientations for frames in the mosaic were modified from NAIF data as required to fit the control frame.

Digital mosaics were assembled at a digital scale of 1/32° (1.3 km) per pixel according to methods described by Batson (1987) and Edwards (1987), and they were transformed to the projection described above. The average positional error of the mosaic with respect to the control frame is less than 6 km.

The bandpasses used to construct the colors shown on this photomosaic are shifted towards shorter wavelengths, resulting in exaggerations of the natural colors of Triton. Voyager narrow-angle camera images, taken with orange, violet, and ultraviolet filters, have been represented respectively by primary additive colors of red, green, and blue. The color of Triton was discussed by McEwen (1990), and the general problem of the color of satellites was discussed by Young (1985).

Digital processing and mosaicking were done by Kathleen Edwards, Tammy L. Becker, Kathy Hoyt, Joan D. Sosam, Alfred S. McEwen, and Randolph L. Kirk.

NOMENCLATURE

Nt 5M - 8/8 CMK - Abbreviation for Neptune, Triton (satellite), 1:5,000,000 series; center of map, lat 8°S, long 8°E; controlled photomosaic (CM), in color (K).

REFERENCES

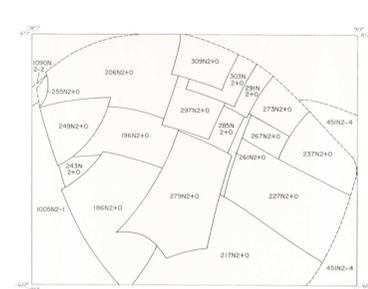
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- Young, A.L., 1985, What color is the solar system? *Sky and Telescope*, v. 69, no. 5, p. 399-403.

NOTE TO USERS

Users noting errors or omissions are urged to indicate them on the map and to forward it to the U.S. Geological Survey, Building 4, Room 454, 2255 North Gemini Drive, Flagstaff, Arizona 86001. A replacement copy will be returned.

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NUMBER: U.S. GEOLOGICAL SURVEY MAP I-2275



INDEX OF VOYAGER 2 IMAGES
The mosaic was made from the Voyager 2 images outlined above. Copies of various enhancements of these images are available from National Space Science Data Center, Code 601, Goddard Space Flight Center, Greenbelt, MD 20771.

PRIMARY SOURCE		TRITON ILM		SUPPLEMENTAL SOURCE	
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CONTROLLED PHOTOMOSAIC (EXAGGERATED COLOR) OF
THE SLIDR LINEA QUADRANGLE (Nt-2) OF TRITON