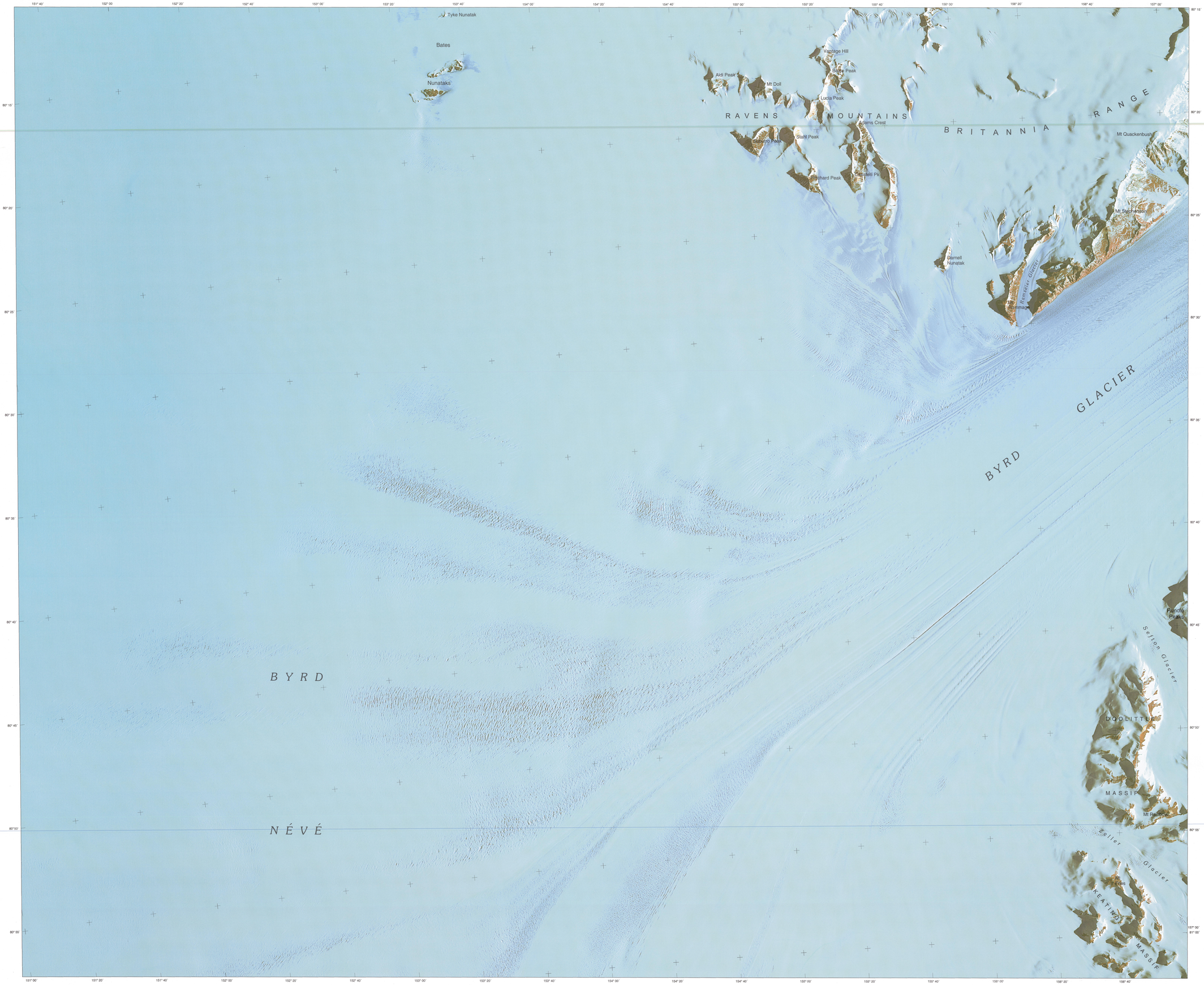
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

BYRD NÉVÉ

ANTARCTICA
SATELLITE IMAGE MAP



DATA EXPLANATION

The satellite images were recorded by the Enhanced Thematic Mapper on the Landsat 7 satellite in the multispectral and panchromatic modes and are composed of spectral bands 2 (525-605 nanometers, green-yellow), 4 (775-900 nanometers, near infrared) and 7 (2090-2350 nanometers, middle infrared) and of a new panchromatic band (520-900 nanometers, green to near infrared)

The imagery was controlled using geodetic ground control points identified on the 15 meter cells panchromatic imagery. The Landsat Enhanced Thematic Mapper Panchromatic imagery was resampled in 7.5 meter cells and filtered using a 27x27 adaptive filter to which 85 percent of the unfiltered data were added back. The geocorrected Enhanced Thematic Mapper multispectral bands 2, 4 and 7 were filtered using a 21x21 adaptive filter to which 85 percent of the unfiltered data were added back. The co-registered multispectral and panchromatic data sets were then merged by adding them with scale and offset factors, and the resulting image was tone enhanced. Panchromatic merged bands 7, 4 and 2 are shown in red green and blue on the image map.

SATELLITE IMAGE INDEX

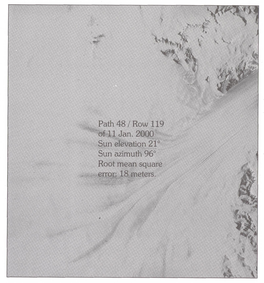
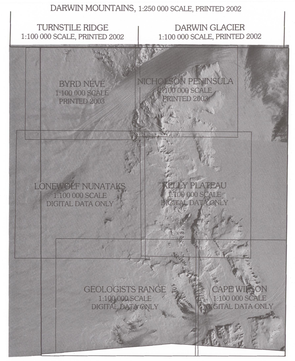


IMAGE MAP INDEX

DARWIN MOUNTAINS, 1:250 000 SCALE, PRINTED 2002



The 7.5 meter digital data for the above quadrangles can be reached at the U.S. Antarctic Resource Center ftp site under nsf@usgs.gov.

OBLIQUE PHOTOGRAPH

Right oblique photograph, looking downstream the lower Byrd Neve, 24 October 1961. U.S. Antarctic Resource Center.

LOCATION DIAGRAM

At the image map location, this diagram and the image map are oriented in opposite directions.

Technical information related to this image map and access to the digital data can be obtained from the Antarctic Resource Center, Mail Stop 515, U.S. Geological Survey National Center, Reston, VA 20192, or www.usarc.usgs.gov.

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SCALE 1: 100 000

KILOMETERS 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
NAUTICAL MILES 1 0 1 2 3 4 5 6 7 8 9 10 11

Polar stereographic projection
Standard parallel at 80° 14′ S
Central meridian at 159° E
International Terrestrial Reference Frame 1996

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