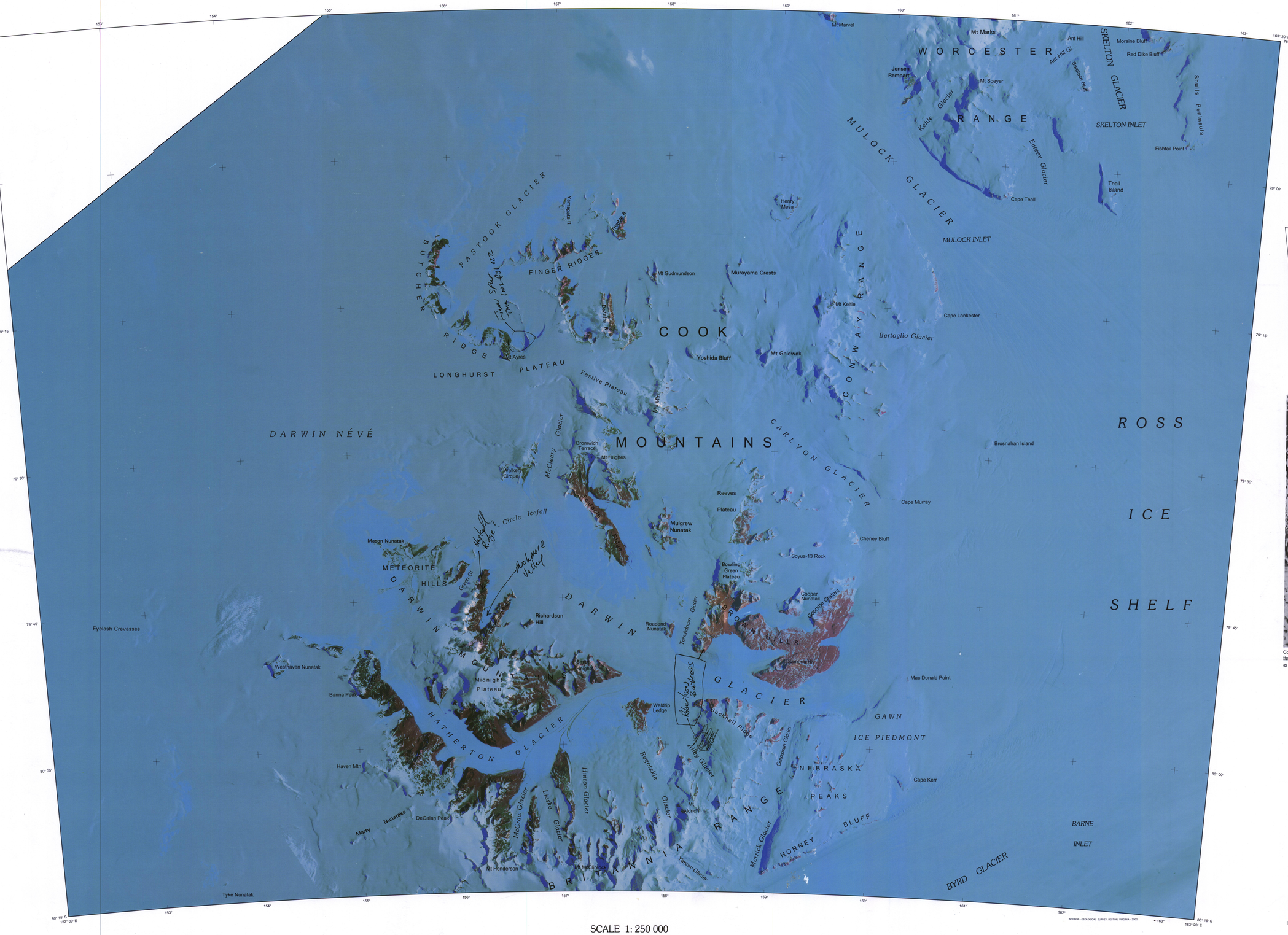
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

DARWIN MOUNTAINS

ANTARCTICA
SATELLITE IMAGE MAP



SCALE 1: 250 000

5 0 5 10 15 20 25 30 35 40 45 KILOMETERS

5 0 5 10 15 20 25 MILES

Lambert conformal conic projection
Standard parallels 76° 40' S and 79° 20' S
International Terrestrial Reference Frame 1996

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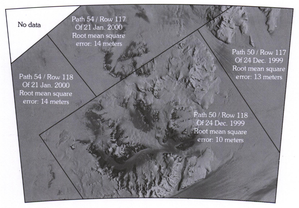
DATA EXPLANATION

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 a terrain elevation model and geodetic ground control points identified on the panchromatic imagery resampled to 7.5 meter cells, most of the control points being also occupied during field collection of coordinates. Satellite platform modeling was used during the geocorrections of the satellite data to ensure uniform error distribution throughout each scene. The Enhanced Thematic Mapper scenes bands 2, 4 and 7 were co-registered, geocorrected and resampled in 30-meter cells, mosaicked and tone matched. The digital data were then filtered using an 11x11 adaptive filter to which 85 percent of the unfiltered data were added back and the resulting image was tone enhanced. Bands 7, 4, and 2 are shown in red, green , and blue, respectively, on the image map.

SATELLITE IMAGE INDEX



SATELLITE SYNTHETIC APERTURE RADAR (RADARSAT) VIEWS

Courtesy of the Alaska SAR Facility. Data downloaded directly from fto.gi.alaska.edu

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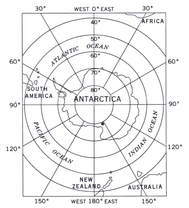
LOCATION DIAGRAM



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

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DARWIN MOUNTAINS, ANTARCTICA
SATELLITE IMAGE MAP