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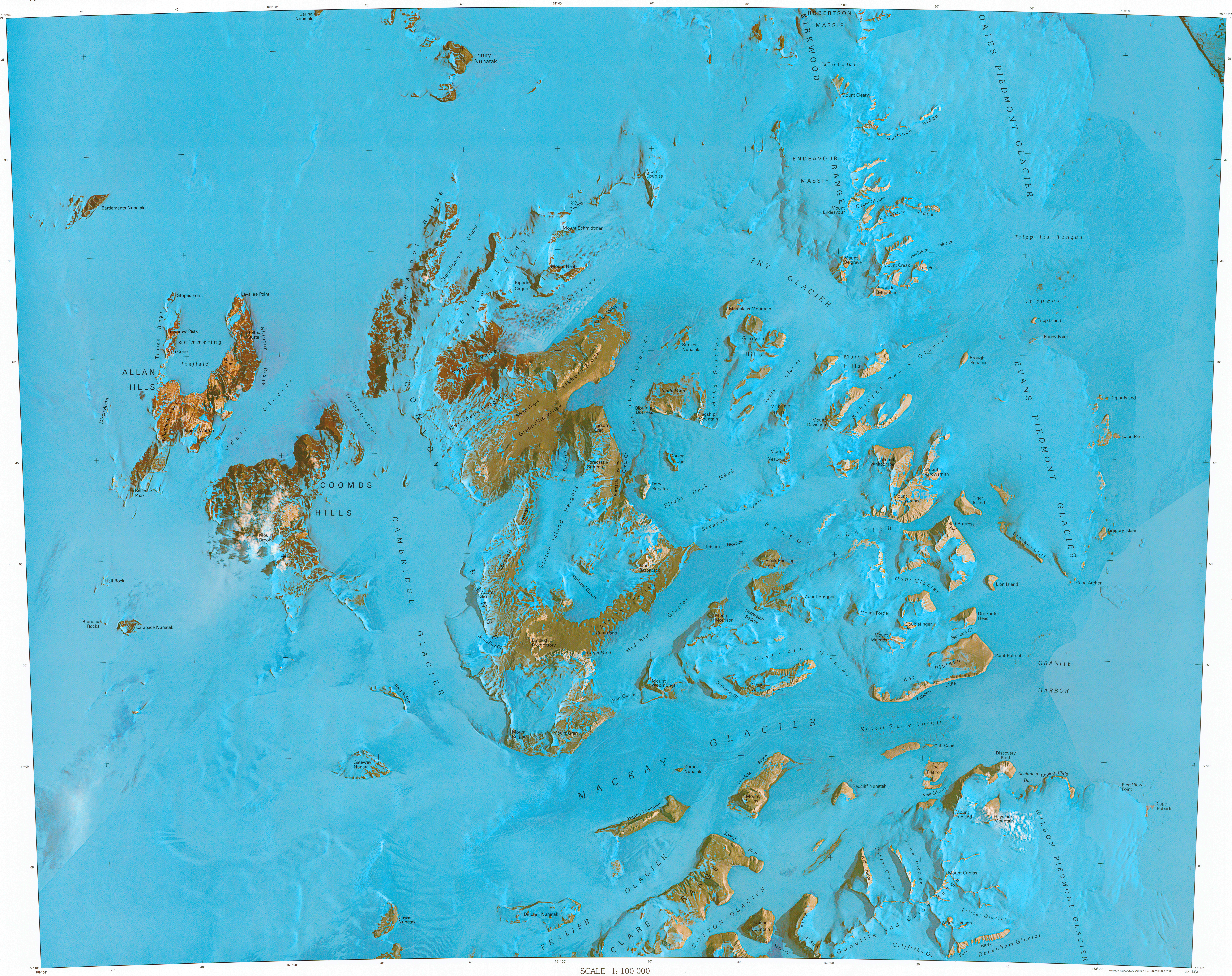
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

CONVOY RANGE

ANTARCTICA
SATELLITE IMAGE MAP



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

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

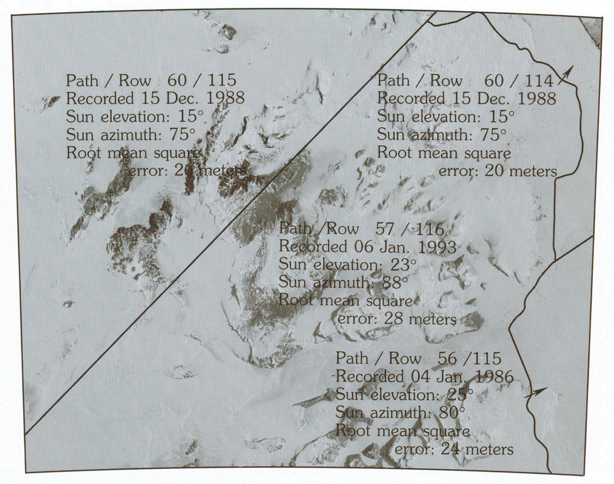
INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-2000

DATA EXPLANATION

The satellite images were recorded by the Landsat thematic mapper in the multispectral mode and are composed of the following spectral bands:
2 (0.52-0.60 nanometer, green-yellow) shown in blue on the map
4 (0.76-0.80 nanometer, near-infrared) shown in green on the map
7 (2.08-2.35 nanometers, middle-infrared) shown in red on the map.

The imagery was controlled using geodetic control points identified on aerial photographs held in the U.S. Antarctic Resource Center and supplemented by the field collection of coordinates for clearly identifiable topographic or geologic features. Satellite platform modeling was used during the geocorrections of the satellite data to ensure uniform error distribution through the scenes. The Landsat thematic mapper imagery was resampled in 15-meter cells, and the scenes were mosaicked and tone matched. The digital data were then filtered using a 21x21 adaptive filter to which 85 percent of the unfiltered data were added back, and the resulting image was tone enhanced.

SATELLITE IMAGE INDEX



LOCATION DIAGRAM

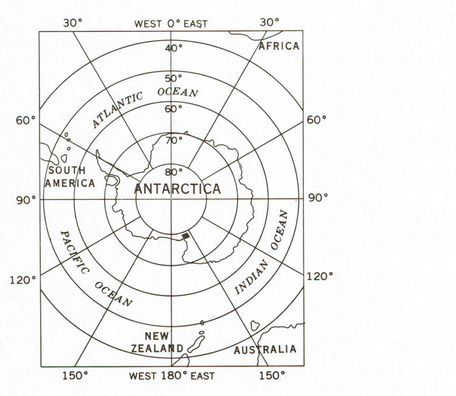
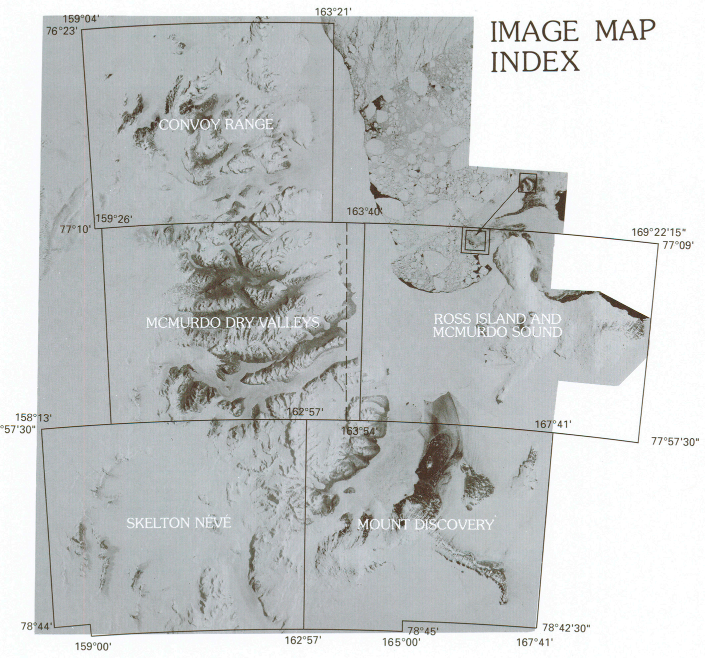


IMAGE MAP INDEX



SURFACE COVER INDICATORS

Sedimentary rocks
Intrusive volcanics
Volcanic flows
Scree
Ice and snow
Icebergs
Mosaicking line (an artifact)
Clouds and their shadows

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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USGS Antarctic Program

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