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

MOUNT DISCOVERY

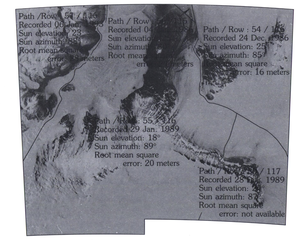
ANTARCTICA
SATELLITE IMAGE MAP

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

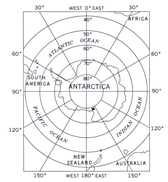
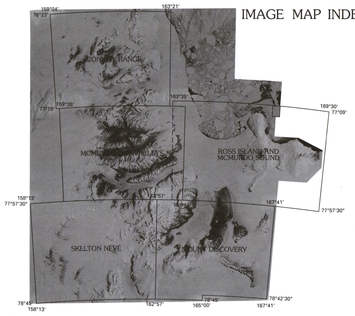


IMAGE MAP INDEX



SURFACE COVER INDICATORS

- Sedimentary rocks
- Intrusive volcanics
- Volcanic flows and cones
- Scree
- Lake
- Clouds and their shadows
- Moraine on ice-shelf
- Fluvial features on the ice
- Bare ice
- Snows

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.

Produced by the U. S. Geological Survey with support from the National Science Foundation, Interagency Agreement OPP 9114787.

FOR SALE BY THE U.S. GEOLOGICAL SURVEY P.O. BOX 25286, DENVER, COLORADO, 80225

MOUNT DISCOVERY, ANTARCTICA
SATELLITE IMAGE MAP

SCALE 1: 100 000

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

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1998