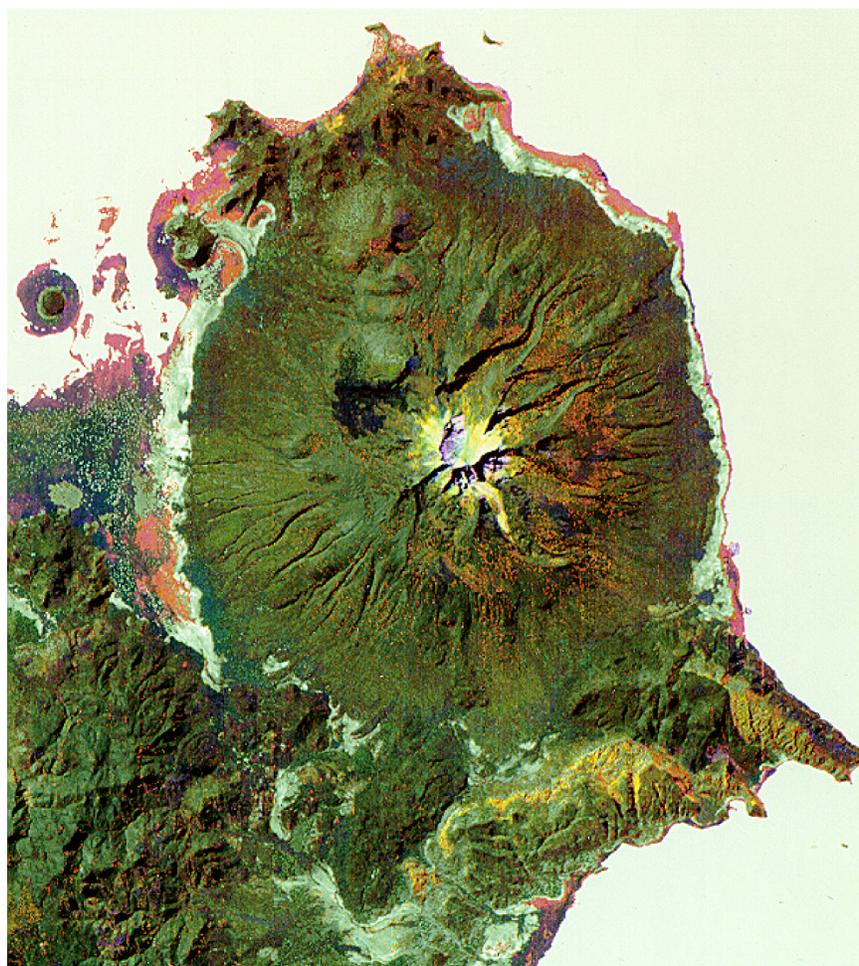


United States Department of the Interior  
Geological Survey

# The Geophysical Expression of Selected Mineral Deposit Models

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

Cover: An example of remote sensing applied to mineral exploration  
LANDSAT TM Image, Color Ratio Composite, Bands 5/7, 3/1, 3/4  
Volcanic form in the Altiplano high plains of Bolivia showing  
hydrothermal alteration patterns as determined by spectral-  
reflectance characteristics of the surface derived from measurements  
made by the Thematic Mapper (TM) systems on LANDSAT 4 and 5.  
Resultant color ratios of channels:  
Reds--clays and carbonate  
Greens--iron oxide (limonite)  
Yellows--mix

Knepper, D.H., and Simpson, S.L., 1992, Geology and mineral resources of the  
Altiplano and Cordillera Occidental, Bolivia: U.S. Geological Survey  
Bulletin 1975, p. 46-55.