HYPERSONIC SURFACE MATERIALS MAP OF QUADRANGLE PASABAND (417) AND MARAZE KAJIRAN (418) QUADRANGLES, AFGHANISTAN

SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS

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

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By

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AFGHANISTAN MINISTRY OF MINES
AFGHANISTAN GEOLOGICAL SURVEY

LOCATION MAP

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HyMap™ imaging spectrometer data-coverage area shown in gray
USGS/AGS 1:250,000-scale quadrangle
Afghanistan 1:250,000-scale topographic area shown in blue
series quadrangles shown in blue

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Analysis of airborne HyMap™ imaging spectrometer (hyperspectral) data of Afghanistan collected in late 2007

The reflectance spectrum of each pixel of HyMap™ imaging spectrometer data was compared to the reference spectrum library. Minerals having slightly different compositions but similar spectral features were less easily discriminated; differences may be present between adjacent flight lines. The version 2 map more accurately represents the mineral distributions and contains an additional mineral classification (Fe2+Fe3+ type 3). Especially in areas having wet soils. The version 2 map more accurately represents the mineral distributions and contains an additional mineral classification (Fe2+Fe3+ type 3). Especially in areas having wet soils.