HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3166, JALDAK (701) AND MARUF-NAWA (702) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS

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EXPLANATION OF MATERIAL CLASSES

Materials are listed based on quality of match with reference spectra; class may contain one or more minerals. Materials are grouped by major classes, and a designation of some map classes consist of several minerals having similar spectral features. For example, "Carbonate" includes lime mudstone or dolomite, calcite, and some carbonates with a spectral content also indicative of dolomite. This map does not represent the mineral distributions and contains modifications to the material class names, as well as an additional refinement in the classification procedures, especially in areas having wet soils. The version 2 map more accurately refines the classification procedures, especially in areas having wet soils. The version 2 map improved mineral mapping from the previously published version (Kokaly and others, 2011) by collecting in late 2007 (Kokaly and others, 2008). This map is one in a series of U.S. Geological Survey/Afghanistan Ministry of Mines and Afghanistan Geological Survey materials maps of quadrangles 3166, Jaldak (701) and Maruf-Nawa (702) quadrangles, Afghanistan, showing carbonates, phyllosilicates, sulfates, altered minerals, and other materials: U.S. Geological Survey Report of Investigation 2013-1193A.

REFERENCES CITED


