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

AFGHAN GEOLOGICAL SURVEY
Prepared in cooperation with the U.S. Geological Survey and the Afghanistan Geodesy and Cartography Head Office
Under the auspices of the U.S. Agency for International Development

USGS OPEN-FILE REPORT 2005-1109-C
AGS OPEN-FILE REPORT (415/416) 2005-1109-C
USGS Afghanistan Project Product No. 095



Cultural data from digital files from AIMS Web site (http://www.aims.org.af)

Projection: Universal Transverse Mercator, zone 41, WGS 84 Datum

DATA SUMMARY

This map is a natural-color rendition created from Landsat 7 Enhanced Thematic Mapper Plus imagery collected between 1999 and 2002. The natural colors were generated using calibrated red-, green-, and blue-wavelength Landsat image data, which were correlated with red, green, and blue values of corresponding picture elements in MODIS (Moderate Resolution Imaging Spectrometer) "true color" mosaics of Afghanistan. These mosaics have been published on http://www.truecolorearth.com and modified to match more closely the Munsell colors of sampled surfaces.

Peak elevations are derived from Shuttle Radar Topography Mission (SRTM) digital data, averaged over a pixel representing an area of 85 m², and they are slightly lower than the highest corresponding local point. Cultural data were extracted from files downloaded from the Afghanistan Information Management Service (AIMS) Web site (http://www.aims.org.af). The AIMS files were originally derived from maps produced by the Afghanistan Geodesy and Cartography Head Office (AGCHO). Cultural features were not derived from the Landsat base and consequently do not match it precisely.

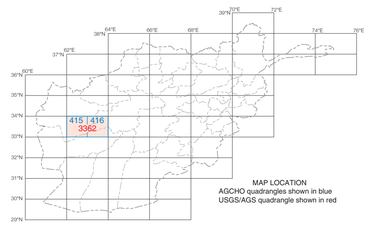
This map is part of a series that includes a geologic map, a topographic map, a Landsat natural-color-image map, and a Landsat false-color-image map for the USGS/AGS (U.S. Geological Survey/Afghan Geological Survey) quadrangles covering Afghanistan. The maps for any given quadrangle have the same open-file number but a different letter suffix, namely, -A, -B, -C, and -D for the geologic, topographic, Landsat natural-color, and Landsat false-color maps, respectively. The present map series is to be followed by a second series, in which the geology is reinterpreted on the basis of analysis of remote-sensing data, limited fieldwork, and library research. The second series is to be produced by the USGS in cooperation with the AGS and AGCHO.

SCALE 1:250 000

5 0 5 10 15 20 25 30 35 40 KILOMETERS

5 0 5 10 15 20 MILES

EXPLANATION
- Road, improved or unimproved
- ▲ 3725 Peak; elevation in meters
- □ City, town, or village



MAP LOCATION
AGCHO quadrangles shown in blue
USGS/AGS quadrangle shown in red

Any use of trade names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Geological Survey

NATURAL-COLOR-IMAGE MAP OF QUADRANGLE 3362, SHIN-DAND (415) AND TULAK (416) QUADRANGLES, AFGHANISTAN

By

Philip A. Davis (image processing) and Kenzie J. Turner (cartography)

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