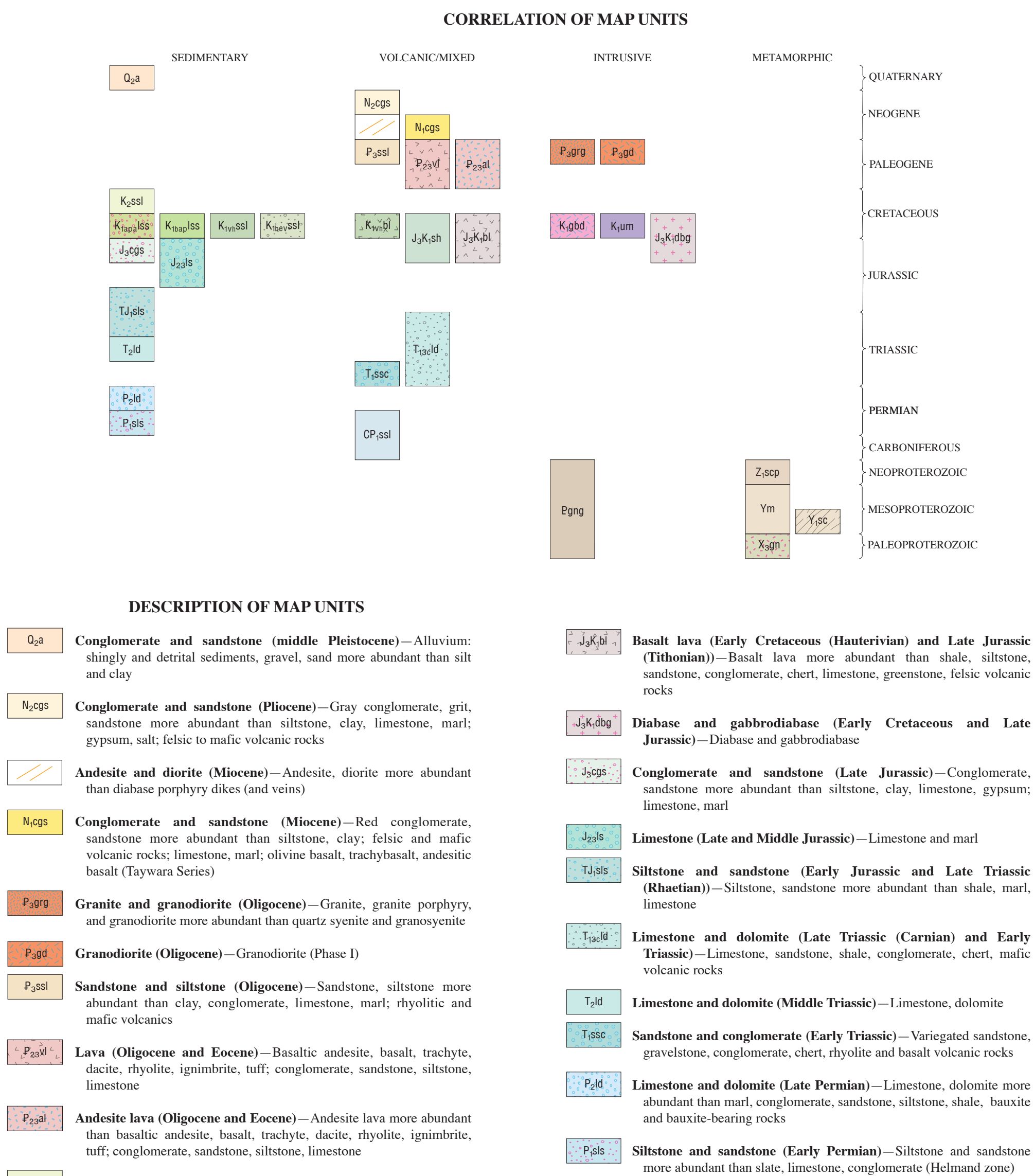


Base from Shuttle Radar Topography Mission (SRTM)  
85-meter digital data  
Cultural data from digital files from AIMS Web site  
(<http://www.aims.org.af>)  
Projection: Universal Transverse Mercator, zone 41, WGS  
84 Datum

Any use of trade, product, or firm names is for descriptive  
purposes only and does not imply endorsement by the U.S.  
Government.



**EXPLANATION OF MAP SYMBOLS**

- Contact
- - - Fault—Dashed where approximately located; dotted where concealed

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**DATA SUMMARY**

This map was produced from several larger digital datasets. Topography was derived from Shuttle Radar Topography Mission (SRTM) 85-meter digital data. Gaps in the original dataset were filled with data digitized from contours on 1:200,000-scale Soviet General Staff Sheets (1978–1997). Contours were generated by cubic convolution averaged over four pixels using TNTmips' surface modeling capabilities. 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). Geologic data and the international boundary of Afghanistan were taken directly from Abdullah and Chmyriov (1977).

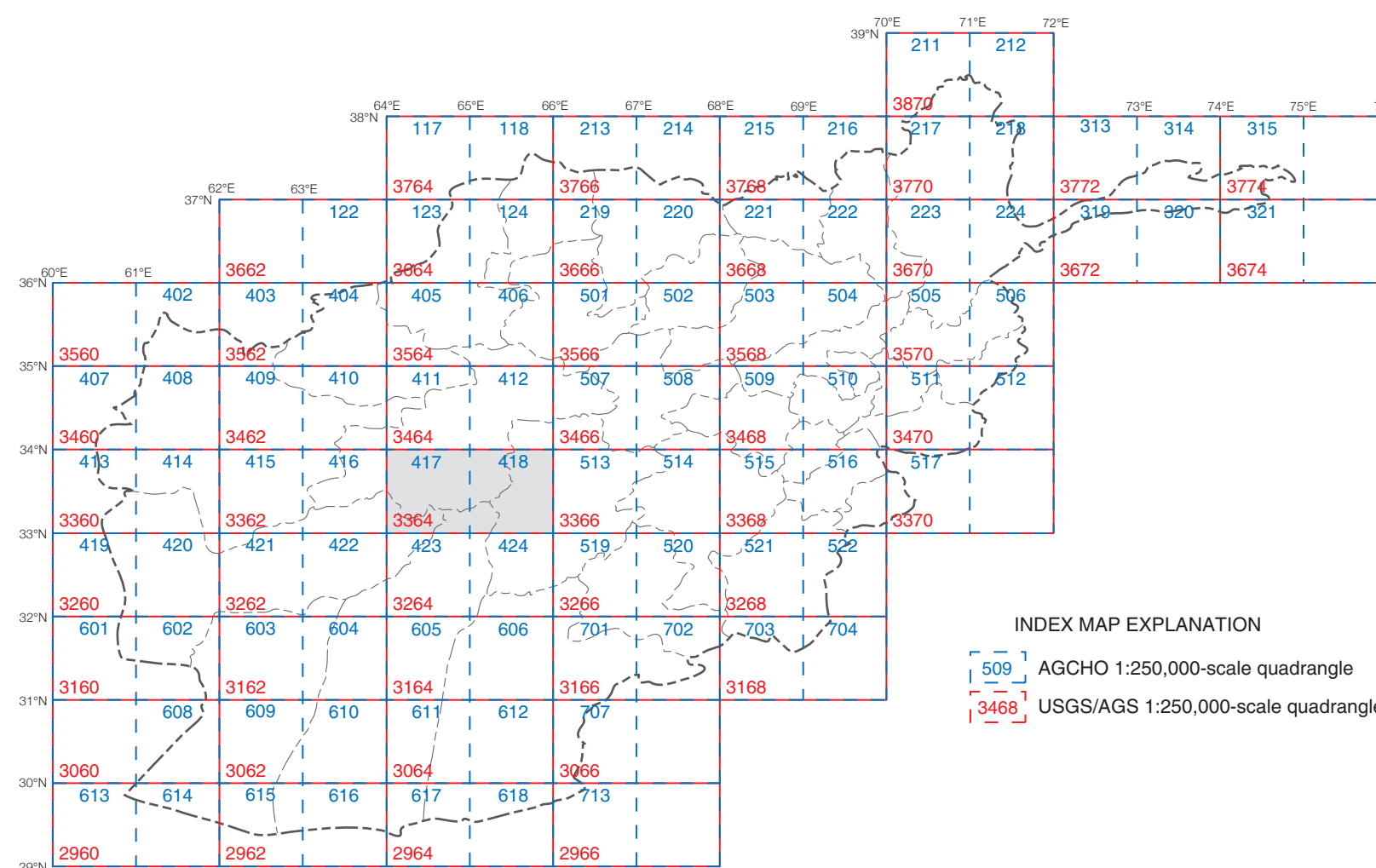
It is the primary intent of the U.S. Geological Survey (USGS) to present the geologic data in a useful format while making them publicly available. These data represent the state of geologic mapping in Afghanistan as of 2005, although the original map was released in the late 1970s (Abdullah and Chmyriov, 1977). The USGS has made no attempt to modify original geologic map-unit boundaries and faults; however, modifications to map-unit symbology, and minor modifications to map-unit descriptions, have been made to clarify lithostratigraphy and to modernize terminology. The generation of a Correlation of Map Units (CMU) diagram required interpretation of the original data, because no CMU diagram was presented by Abdullah and Chmyriov (1977).

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 (Afghan Geological Survey) quadrangles shown on the index map. 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.

**REFERENCE CITED**

Abdullah, Sh., and Chmyriov, V.M., eds., 1977. Map of mineral resources of Afghanistan: Kabul, Ministry of Mines and Industries of the Democratic Republic of Afghanistan, Department of Geological and Mineral Survey, V/O "Technoexport" USSR, scale 1:500,000.

Geospatial analysis software developed by MicroImage, Inc., Lincoln, NE 68504-2010.



**INDEX MAP EXPLANATION**

- 520 AGCHO 1:250,000-scale quadrangle
- 3466 USGS/AGS 1:250,000-scale quadrangle

## GEOLOGIC MAP OF QUADRANGLE 3364, PASA-BAND (417) AND KEJRAN (418) QUADRANGLES, AFGHANISTAN

Compiled by  
Kevin C. McKinney, David A. Sawyer, and Kenzie J. Turner  
2005

