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Department of Defense

# U.S. GEOLOGICAL SURVEY AFGHANISTAN PROJECT PRODUCTS

By U.S. Geological Survey Assessment Team

Administrative Report, September 2014

**U.S. Department of the Interior  
U.S. Geological Survey**

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This report lists all USGS publications of the Afghanistan Project, numbered as Afghanistan Project Products, and compiled through September 2014. This list complements Afghanistan Project Product Number 163 (A USER-FRIENDLY, KEYWORD-SEARCHABLE DATABASE OF GEOSCIENTIFIC REFERENCES THROUGH 2007 FOR AFGHANISTAN, USGS Data Series 323), which includes references published through 2007.

Please note that four Project Product Numbers (186, 200, 201, and 232) in this report are shared by more than one publication. Furthermore, in the case of Project Product Numbers 199 (Open-File Report 2011-1204) and 201 (Open-File Report 2011-1229), individual chapters of these relatively large publications have been listed separately.

A number of additional publications can be found at the end of this list. These resulted from research activities carried out by the U.S. Geological Survey in Afghanistan prior to 2004, when the USGS Afghanistan Project commenced, and date primarily from the 1970s and 1960s.

001 Broshears, Robert E.; Akbari, M. Amin; Chornack, Michael P.; Mueller, David K.; Ruddy, Barbara C. 2005. **INVENTORY OF GROUND-WATER RESOURCES IN THE KABUL BASIN, AFGHANISTAN**

U.S. Geological Survey Scientific Investigations Report 2005-5090. 34 p.

<http://pubs.usgs.gov/sir/2005/5090>

USGS Afghanistan Project Product No. 001

002 SanFilipo, John. 2005. **ASSESSING THE COAL RESOURCES OF AFGHANISTAN**

U.S. Geological Survey Fact Sheet 2005-3073. 3 p.

<http://pubs.usgs.gov/fs/2005/3073>

USGS Afghanistan Project Product No. 002

003 Williams, Van S. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLES 3460 AND 3360, KOL-I-NAMAKSAR (407), GHURYAN (408), KAWIR-I-NAIZAR (413), AND KOHE-MAHMUDO-ESMAILJAN (414) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1103-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1103/A>

USGS Afghanistan Project Product No. 003

004 Maldonado, Florian; Turner, Kenzie J. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3368 AND PART OF QUADRANGLE 3370, GHAZNI (515), GARDEZ (516), AND PART OF JAJI-MAYDAN (517) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1112-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1112/A>

USGS Afghanistan Project Product No. 004

005 Bohannon, Robert G.; Turner, Kenzie J. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3468, CHAK WARDAK-SYAHGERD (509) AND KABUL (510) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1107-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1107/A>

USGS Afghanistan Project Product No. 005

006 Turner, Kenzie J. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3566, SANG-CHARAK (501) AND SAYGHAN-O-KAMARD (502) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1100-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1100/A>

USGS Afghanistan Project Product No. 006

007 Lindsay, Charles R.; Snee, Lawrence W.; Bohannon, Robert G.; Wahl, Ronald R.; Sawyer, David A. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3568, POLEKHOMRI (503) AND CHARIKAR (504) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1101-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1101/A>

USGS Afghanistan Project Product No. 007

008 Lindsay, Charles R.; Snee, Lawrence W.; Bohannon, Robert G.; Wahl, Ronald R.; Sawyer, David A. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3570, TAGAB-E-MUNJAN (505) AND ASMAR-KAMDESH (506) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1102-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1102/A>  
USGS Afghanistan Project Product No. 008

009 Fridrich, Chris J.; Lindsay, Charles R.; Snee, Lawrence W. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLES 3768 AND 3668, IMAM-SAHEB (215), RUSTAQ (216), BAGHLAN (221), AND TALOQAN (222) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1094-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1094/A>  
USGS Afghanistan Project Product No. 009

010 Benz, Harley; Machette, Michael; Sipkin, Stuart; Wheeler, Russell. 2005. **ASSESSING THE SEISMIC HAZARDS OF AFGHANISTAN**

U.S. Geological Survey Fact Sheet 2005-3038. 3 p.

<http://pubs.usgs.gov/fs/2005/3038/>  
USGS Afghanistan Project Product No. 010

011 Wheeler, Russell L.; Bufe, Charles G.; Johnson, Margo L.; Dart, Richard L. 2005. **SEISMOTECTONIC MAP OF AFGHANISTAN, WITH ANNOTATED BIBLIOGRAPHY**

U.S. Geological Survey Open-File Report 2005-1264. 31 p.

<http://pubs.usgs.gov/of/2005/1264/>  
USGS Afghanistan Project Product No. 011

012 Ruleman, C. A.; Crone, A. J.; Machette, M. N.; Haller, K. M. 2005. **STATUS OF THE QUATERNARY FAULT MAP OF AFGHANISTAN - INTERIM REPORT TO THE U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT**

U.S. Geological Survey Administrative Report 2005.

Available on 1 CD – Currently Not Available on the Internet

USGS Afghanistan Project Product No. 012

013 Chirico, Peter G.; Warner, Michael B. 2005. **MOSAIC OF DIGITAL RASTER SOVIET 1:200,000 SCALE TOPOGRAPHIC MAPS OF AFGHANISTAN**

U.S. Geological Survey Data Series 131. Scale 1:200,000

<http://pubs.er.usgs.gov/publication/ds131>  
USGS Afghanistan Project Product No. 013

014 Chirico, Peter G.; Barrios, Boris. 2005. **VOID FILLED SRTM DIGITAL ELEVATION MODEL OF AFGHANISTAN**

U.S. Geological Survey Data Series 130. Scale 1:200,000

<http://pubs.er.usgs.gov/publication/ds130>  
USGS Afghanistan Project Product No. 014

015 McKinney, Kevin C.; Lidke, David J. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLES 3560, 3562, AND 3662, SIR BAND (402), KHAWJA-JIR (403), BALA-MURGHAB (404), AND DARAH-I-SHOR-I-KARAMANDI (122) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1098-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1098/A>  
USGS Afghanistan Project Product No. 015

016 Williams, Van S. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLES 3260 AND 3160, DASHT-E-CHAHE-MAZAR (419), ANARDARA (420), ASPARAN (601), AND KANG (602) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1113-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1113/A>

USGS Afghanistan Project Product No. 016

017 McKinney, Kevin C.; Sawyer, David A. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3564, CHAHRIAQ (JOAND) (405) AND GURZIWAN (406) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1099-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1099/A>

USGS Afghanistan Project Product No. 017

018 Lindsay, Charles R. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLES 3772, 3774, 3672, AND 3674, GAZ-KHAN (313), SARHAD (314), KOL-I-CHAQMAQTIN (315), KHANDUD (319), DEH-GHULAMAN (320), AND ERTFAH (321) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1097-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1097/A>

USGS Afghanistan Project Product No. 018

019 Lidke, David J. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3262, FARAH (421) AND HOKUMAT-E-PUR-CHAMAN (422) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1114-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1114/A>

USGS Afghanistan Project Product No. 019

020 Bohannon, Robert G. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLES 3168 AND 3268, YAHYA-WONA (703), WERSEK (704), KHAYR-KOT (521), AND URGON (522) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1117-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1117/A>

USGS Afghanistan Project Product No. 020

021 Bohannon, Robert G; Turner, Kenzie J. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3470 AND THE NORTHERN EDGE OF QUADRANGLE 3370, JALAL-ABAD (511), CHAGHASARAY (512), AND NORTHERNMOST JAJI-MAYDAN (517) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1108-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1108/A>

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022 O'Leary, Dennis W.; Whitney, John W. (compiler(s)). 2005. **GEOLOGIC MAP OF QUADRANGLE 3164, LASHKARGAH (605) AND KANDAHAR (606) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1119-A. Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1119/A>

USGS Afghanistan Project Product No. 022

023 Maldonado, Florian. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3162, CHAKHANSUR (603) AND KOTALAK (604) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1118-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1118/A>  
USGS Afghanistan Project Product No. 023

024 Bohannon, Robert G.; Lindsay, Charles R. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3264, NAWZAD-MUSA-QALA (423) AND DEHRAWAT (424) QUADRANGLES, AFGHANISTAN**  
U.S. Geological Survey Open-File Report 2005-1115-A. 1 sheet(s). Scale 1:200,000  
<http://pubs.usgs.gov/of/2005/1115/A>  
USGS Afghanistan Project Product No. 024

025 U.S. Geological Survey. (compiler(s)). 2005. **CALIBRATED LANDSAT ETM+ SCENES OF AFGHANISTAN - 3 VOLUMES**  
Available on 3 DVDs – Currently Not Available on the Internet  
USGS Afghanistan Project Product No. 025

Note: There is no Product No. 026.

027 Nigh, Stephen; Soricone, Robert; Galuszka, Donna; Davis, Phil; Hare, Trent. (compiler(s)). 2005. **GEOLOGY AND STRUCTURE MAPS OF AFGHANISTAN (GIS SHAPEFILE FORMAT) - AFGHANISTAN GEOLOGY (GERMAN AUTHORED), 1:500K SCALE, SOUTH AND CENTRAL**  
Available on 1 CD – Currently Not Available on the Internet  
USGS Afghanistan Project Product No. 027

028 Dewey, James W. (editor(s)). 2006. **SEISMICITY OF AFGHANISTAN AND VICINITY**  
U.S. Geological Survey Open-File Report 2006-1185. 2 sheet(s). 55 p.  
<http://pubs.usgs.gov/of/2006/1185/>  
USGS Afghanistan Project Product No. 028  
Note: Product Numbers 028A-D are part of this publication.

028A Dewey, James W.; Bergman, Eric A.; Hopper, Margaret G.; Sipkin, Stuart A. 2006. **OVERVIEW OF SEISMICITY OF AFGHANISTAN AND VICINITY**  
U.S. Geological Survey Open-File Report 2006-1185-A. p. 1-13  
<http://pubs.usgs.gov/of/2006/1185/>  
USGS Afghanistan Project Product No. 028A

028B Bergman, Eric A. 2006. **A COMPREHENSIVE EARTHQUAKE CATALOG FOR THE AFGHANISTAN REGION**  
U.S. Geological Survey Open-File Report 2006-1185-B. p. 14-55  
<http://pubs.usgs.gov/of/2006/1185/>  
USGS Afghanistan Project Product No. 028B

028C Sipkin, Stuart A.; Bergman, Eric A.; Johnson, Margo L.; Rukstales, Kenneth S.; Dewey, James W. 2006. **INSTRUMENTAL SEISMICITY (1964-2004) OF THE AFGHANISTAN REGION**  
U.S. Geological Survey Open-File Report 2006-1185. 1 sheet(s).  
<http://pubs.usgs.gov/of/2006/1185/>  
USGS Afghanistan Project Product No. 028C

028D Hopper, Margaret G.; Rukstales, Kenneth S.; Johnson, Margo L.; Dewey, James W.; Bergman, Eric A.; Sipkin, Stuart A. 2006. **DAMAGING HISTORIC EARTHQUAKES OF THE AFGHANISTAN REGION**  
U.S. Geological Survey Open-File Report 2006-1185. 1 sheet(s).

<http://pubs.usgs.gov/of/2006/1185/>  
USGS Afghanistan Project Product No. 028D

029 Galuszka, Donna; Redding, Bonnie; Hare, Trent M. (compiler(s)). 2005. **GEOLOGY AND STRUCTURE MAPS OF AFGHANISTAN (GIS SHAPEFILE FORMAT) - AFGHANISTAN TECTONICS (RUSSIAN AUTHORED), 1:1M SCALE, COUNTRYWIDE 2005**

Available on 1 CD – Currently Not Available on the Internet  
USGS Afghanistan Project Product No. 029

030 U.S. Geological Survey. 2005. **GEOLOGY AND STRUCTURE MAPS OF AFGHANISTAN (GIS SHAPEFILE FORMAT) - AFGHANISTAN GEOLOGY (RUSSIAN AUTHORED), 1:1M SCALE, COUNTRYWIDE**

Available on 1 CD – Currently Not Available on the Internet  
USGS Afghanistan Project Product No. 030

031 Bohannon, Robert G.; Lindsay, Charles R. 2007. **GEOLOGIC MAP OF QUADRANGLE 3362, SHINDAND (415) AND TULAK (416) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1109-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1109/A>  
USGS Afghanistan Project Product No. 031

032 Dewey, James W. (editor(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3266, OURZGAN (519) AND MOQUR (520) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1116-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1116/A>  
USGS Afghanistan Project Product No. 032

033 Bohannon, Robert G. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3166, JALDAK (701) AND MARUF-NAWA (702) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1120-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1120/A>  
USGS Afghanistan Project Product No. 033

034 Bohannon, Robert G.; Lindsay, Charles R. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3462, HERAT (409) AND CHESHT-SHARIF (410) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1104-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1104/A>  
USGS Afghanistan Project Product No. 034

035 Bohannon, Robert G.; Lindsay, Charles R. (compiler(s)). 2007. **GEOLOGIC MAP OF QUADRANGLE 3464, SHAHRAK (411) AND KASI (412) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1105-A. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1105/A>  
USGS Afghanistan Project Product No. 035

036 Davis, Philip A.; Hare, Trent M. (compiler(s)). 2007. **NATURAL-COLOR IMAGE MOSAICS OF AFGHANISTAN: DIGITAL DATABASES AND MAPS**

U.S. Geological Survey Data Series 245. 10 p., 3 discs

<http://pubs.usgs.gov/ds/2007/245>  
USGS Afghanistan Project Product No. 036

037 Doebrich, Jeff L.; Wahl, Ronald R.; Ludington, Stephen D.; Chirico, Peter G.; Wandrey, Craig J.; Bohannon, Robert G.; Orris, Greta J.; Bliss, James D.; Wasy, Abdul; Younusi, Mohammad O. (compiler(s)). 2006. **GEOLOGIC AND MINERAL RESOURCE MAP OF AFGHANISTAN**

U.S. Geological Survey Open-File Report 2006-1038. 1 sheet(s). Scale 1:850,000

<http://pubs.usgs.gov/of/2006/1038/>

USGS Afghanistan Project Product No. 037

038 Snee, Lawrence W.; Lindsay, Charles R.; Bohannon, Robert G.; Turner, Kinzie J.; Wasay, Abdul; Omar, Mohammed; Seal II, Robert R.; Wilds, Stanley R.; Wilson, Earl M.(compiler(s)). 2005. **EMERALD DEPOSITS OF THE PANJSHER VALLEY, AFGHANISTAN - PRELIMINARY ASSESSMENT OF GEOLOGIC SETTING AND ORIGIN OF THE DEPOSITS**

U.S. Geological Survey Administrative Report 2005.

[http://afghanistan.cr.usgs.gov/downloadfile.php?file=Panjsher\\_Valley\\_administrative\\_report.pdf](http://afghanistan.cr.usgs.gov/downloadfile.php?file=Panjsher_Valley_administrative_report.pdf)

USGS Afghanistan Project Product No. 038

039 Bohannon, Robert G.; Yount, James C. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLES 3764 AND 3664, JALAJIN (117), KHAM-AB (118), CHAR SHANGHO (123), AND SHEBERGHAN (124) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1092-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1092/B>

USGS Afghanistan Project Product No. 039

040 Davis, Philip A.; Hare, Trent M. 2006. **TOPOGRAPHIC MAP OF QUADRANGLES 3666 AND 3766, BALKH (219), MAZAR-I-SHARIF (220), QARQIN (213), AND HAZARA TOGHAI (214) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1093-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1093/B>

USGS Afghanistan Project Product No. 040

041 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3768 AND 3668, IMAM-SAHEB (215), RUSTAQ (216), BAGHLAN (221), AND TALOQAN (222) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1094-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1094/B>

USGS Afghanistan Project Product No. 041

042 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLES 3770 AND 3870, MAYMAYK (211), JAMARJ-I-BALA (212), FAYDZ-ABAD (217), AND PARKHAW (218) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1095-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1095/B>

USGS Afghanistan Project Product No. 042

043 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3670, JAM-KASHEM (223) AND ZEBAK (224) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1096-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1096/B>

USGS Afghanistan Project Product No. 043



044 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLES 3772, 3774, 3672, AND 3674, GAZ-KHAN (313), SARHAD (314), KOL-I-CHAQMAQTIN (315), KHANDUD (319), DEH-GHULAMAN (320), AND ERFTAH (321) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1097-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1097/B>

USGS Afghanistan Project Product No. 044

045 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLES 3560 AND 3562, SIR-BAND (402), KHAWJA-JIR (403), AND BALA-MURGHAB (404) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1098-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1098/B>

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046 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3564, CHAHRIAQ (JOAND) (405) AND GURZIWAN (406) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1099-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1099/B>

USGS Afghanistan Project Product No. 046

047 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3566, SANG-CHARAK (501) AND SAYGHAN-O-KAMARD (502) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1100-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1100/B>

USGS Afghanistan Project Product No. 047

048 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3568, POLEKHOMRI (503) AND CHARIKAR (504) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1101-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1101/B>

USGS Afghanistan Project Product No. 048

049 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3570, TAGAB-E-MUNJAN (505) AND ASMAR-KAMDESH (506) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1102-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1102/B>

USGS Afghanistan Project Product No. 049

050 Bohannon, Robert G. (compiler(s)). . **TOPOGRAPHIC MAP OF QUADRANGLES 3460 AND 3360, KOL-I-NAMAKSAR (407), GHURYAN (408), KAWIR-I-NAIZAR (413), AND KOHE-MAHMUDO-ESMAILJAN (414) QUADRANGLES, AFGHANISTAN 2005**

U.S. Geological Survey Open-File Report 2005-1103-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1103/B>

USGS Afghanistan Project Product No. 050

051 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3462, HERAT (409) AND CHESHT-SHARIF (410) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1104-B. 1 sheet(s). Scale 1:200,000

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USGS Afghanistan Project Product No. 051

052 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3464, SHAHRAK (411) AND KASI (412) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1105-B. 1 sheet(s). Scale 1:200,000

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USGS Afghanistan Project Product No. 052

053 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3466, LAL-SARJANGAL (507) AND BAMYAN (508) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1106-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1106/B>

USGS Afghanistan Project Product No. 053

054 Bohannon, Robert G. 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3468, CHAK WARDAK SYAHGERD (509) AND KABUL (510) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1107-B. 1 sheet(s). Scale 1:200,000

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USGS Afghanistan Project Product No. 054

055 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3470 AND THE NORTHERN EDGE OF 3370, JALAL-ABAD (511), CHAGHASARAY (512), AND NORTHERNMOST JAJI-MAYDAN (517) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1108-B. 1 sheet(s). Scale 1:200,000

<http://pubs.usgs.gov/of/2005/1108/B>

USGS Afghanistan Project Product No. 055

056 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3362, SHIN-DAND (415) AND TULAK (416) QUADRANGLES, AFGHANISTAN**

U.S. Geological Survey Open-File Report 2005-1109-B. 1 sheet(s). Scale 1:200,000

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USGS Afghanistan Project Product No. 056

057 Bohannon, Robert G. (compiler(s)). 2006. **TOPOGRAPHIC MAP OF QUADRANGLE 3364, PASA-BAND (417) AND KEJRAN (418) QUADRANGLES, AFGHANISTAN**

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USGS Afghanistan Project Product No. 201

Note: This is a chapter from King, et.al. IDENTIFICATION OF MINERAL RESOURCES IN AFGHANISTAN; DETECTING AND MAPPING RESOURCE ANOMALIES IN PRIORITIZED AREAS USING GEOPHYSICAL AND REMOTE SENSING (ASTER AND HYMAP) DATA, Project No. 201.

201 Johnson, Michaela R. 2011. **DESCRIPTION OF STRUCTURE AND CONTENT OF SPATIAL DATASET OF IDENTIFIED ANOMALIES IN AFGHANISTAN**

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USGS Afghanistan Project Product No. 201

Note: This is a chapter from King, et.al. IDENTIFICATION OF MINERAL RESOURCES IN AFGHANISTAN; DETECTING AND MAPPING RESOURCE ANOMALIES IN PRIORITIZED AREAS USING GEOPHYSICAL AND REMOTE SENSING (ASTER AND HYMAP) DATA, Project No. 201.

201 Drenth, Benjamin J. 2011. **IDENTIFICATION OF GRAVITY, MAGNETIC, AND RADIOMETRIC GEOPHYSICAL ANOMALIES IN AFGHANISTAN**

U.S. Geological Survey Open-File Report 2011-1229. Chapter 3, p. 10-35

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USGS Afghanistan Project Product No. 201

Note: This is a chapter from King, et.al. IDENTIFICATION OF MINERAL RESOURCES IN AFGHANISTAN; DETECTING AND MAPPING RESOURCE ANOMALIES IN PRIORITIZED AREAS USING GEOPHYSICAL AND REMOTE SENSING (ASTER AND HYMAP) DATA, Project No. 201.

201 Hubbard, Bernard E. 2011. **IDENTIFICATION OF MINERAL ANOMALIES IN AFGHANISTAN USING ADVANCED SPACEBORNE THERMAL EMISSION AND REFLECTION RADIOMETER**

U.S. Geological Survey Open-File Report 2011-1229. Chapter 4, p. 36-157

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Note: This is a chapter from King, et.al. IDENTIFICATION OF MINERAL RESOURCES IN AFGHANISTAN; DETECTING AND MAPPING RESOURCE ANOMALIES IN PRIORITIZED AREAS USING GEOPHYSICAL AND REMOTE SENSING (ASTER AND HYMAP) DATA, Project No. 201.

201 King, Trude V. V.; Hoefen, T. M.; Johnson, M. R.; Kokaly, R. F.; Livo, K. E. 2011. **MAPPING ANOMALOUS MINERAL ZONES USING HYMAP IMAGING SPECTROMETER; DATA FOR SELECTED AREAS OF INTEREST IN AFGHANISTAN**

U.S. Geological Survey Open-File Report 2011-1229. Chapter 5, p. 158-320

<http://pubs.usgs.gov/of/2011/1229>

USGS Afghanistan Project Product No. 201

Note: This is a chapter from King, et.al. IDENTIFICATION OF MINERAL RESOURCES IN AFGHANISTAN; DETECTING AND MAPPING RESOURCE ANOMALIES IN PRIORITIZED AREAS USING GEOPHYSICAL AND REMOTE SENSING (ASTER AND HYMAP) DATA, Project No. 201.

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USGS Afghanistan Project Product No. 201

Note: This is a chapter from King, et.al. IDENTIFICATION OF MINERAL RESOURCES IN AFGHANISTAN; DETECTING AND MAPPING RESOURCE ANOMALIES IN PRIORITIZED AREAS USING GEOPHYSICAL AND REMOTE SENSING (ASTER AND HYMAP) DATA, Project No. 201.

201 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3468, CHAK-E WARDAK-SIYAHGIRD (509) AND KABUL (510) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1191-A. 1 sheet(s). Scale 1:250,000

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Note: This is the second of two different publications with USGS Afghanistan Project No. 201

202 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3468, CHAK-E WARDAK-SIYAHGIRD (509) AND KABUL (510) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1191-B. 1 sheet(s). Scale 1:250,000

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doi: 10.3133/ofr20131191B

USGS Afghanistan Project Product No. 202

203 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 3664 AND 3764, CHAR SHENGO (123), SHIBIRGHAN (124), JALAJIN (117), AND KHAM-AB (118) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1192-A. 1 sheet(s). Scale 1:250,000

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doi: 10.3133/ofr20131192A

USGS Afghanistan Project Product No. 203

204 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 3664 AND 3764, CHAR SHENGO (123), SHIBIRGHAN (124), JALAJIN (117), AND KHAM-AB (118) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1192-B. 1 sheet(s). Scale 1:250,000

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doi: 10.3133/ofr20131192B

USGS Afghanistan Project Product No. 204

205 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3166, JALDAK (701) AND MARUF-NAWA (702) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1193-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 205

206 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3166, JALDAK (701) AND MARUF-NAWA (702) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1193-B. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 206

207 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3162, CHAKHANSUR (603) AND KOTALAK (604) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1194-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 207

208 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3162, CHAKHANSUR (603) AND KOTALAK (604) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1194-B. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 208

209 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3266, URUZGAN (519) AND MOQR (520) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1195-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 209

210 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3266, URUZGAN (519) AND MOQR (520) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

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USGS Afghanistan Project Product No. 210

211 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3164, LASHKAR GAH (605) AND KANDAHAR (606) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

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USGS Afghanistan Project Product No. 211

212 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3164, LASHKAR GAH (605) AND KANDAHAR (606) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1196-B. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 212

213 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3268, KHAYR KOT (521) AND URGUN (522) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1197-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 213

214 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3268, KHAYR KOT (521) AND URGUN (522) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1197-B. 1 sheet(s). Scale 1:250,000

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doi: 10.3133/ofr20131197B

USGS Afghanistan Project Product No. 214

215 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3264, NAW ZAD-MUSA QALA (423) AND DIHRAWUD (424) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1198-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 215

216 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3264, NAW ZAD-MUSA QALA (423) AND DIHRAWUD (424) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

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USGS Afghanistan Project Product No. 216

217 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3566, SANGCHARAK (501) AND SAYGHAN-O-KAMARD (502) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

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USGS Afghanistan Project Product No. 217

218 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3566, SANGCHARAK (501) AND SAYGHAN-O-KAMARD (502) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING**



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USGS Afghanistan Project Product No. 218

219 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3462, HERAT (409) AND CHISHTI SHARIF (410) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

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USGS Afghanistan Project Product No. 219

220 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3462, HERAT (409) AND CHISHTI SHARIF (410) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1200-B. 1 sheet(s). Scale 1:250,000

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221 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3568, PUL-E KHUMRI (503) AND CHARIKAR (504) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1201-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 221

222 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3568, PUL-E KHUMRI (503) AND CHARIKAR (504) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1201-B. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 222

223 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3562, KHAWJA-JIR (403) AND MURGHAB (404) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1202-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 223

224 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3562, KHAWJA-JIR (403) AND MURGHAB (404) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

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225 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 3360 AND 3460, KAWIR-E NAIZAR (413), KOHE-MAHMUDO-ESMAILJAN (414), KOL-E NAMAKSAR (407), AND GHORIYAN (408) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1203-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 225

226 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 3360 AND 3460, KAWIR-E NAIZAR (413), KOHE-MAHMUDO-ESMAILJAN (414), KOL-E NAMAKSAR (407), AND GHORIYAN (408) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1203-B. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 226

227 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3260, DASHT-E-CHAH-E-MAZAR (419) AND ANAR DARAH (420) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1204-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 227

228 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3260, DASHT-E-CHAH-E-MAZAR (419) AND ANAR DARAH (420) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

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USGS Afghanistan Project Product No. 228

229 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3366, GIZAB (513) AND NAWER (514) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1205-A. 1 sheet(s). Scale 1:250,000

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USGS Afghanistan Project Product No. 229

230 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3366, GIZAB (513) AND NAWER (514) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

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231 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3470, JALALABAD (511) AND CHAGHASARAY (512) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

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232 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3470, JALALABAD (511) AND CHAGHASARAY (512) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1206-B. 1 sheet(s). Scale 1:250,000

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<http://dx.doi.org/10.3133/ofr20131206B>

doi: 10.3133/ofr20131206B

USGS Afghanistan Project Product No. 232

Note: This is the first of two different publications with USGS Afghanistan Project No. 232

232 Olson, Scott A.; Mack, Thomas J. 2011. **TECHNIQUE FOR ESTIMATION OF STREAMFLOW STATISTICS IN MINERAL AREAS OF INTEREST IN AFGHANISTAN**

U.S. Geological Survey Open-File Report 2011-1176. 17 p.

<http://pubs.usgs.gov/of/2011/1176/>

USGS Afghanistan Project Product No. 232

Note: This is the second of two different publications with USGS Afghanistan Project No. 232

233 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3262, FARAH (421) AND HOKUMAT-E-PUR-CHAMAN (422) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1207-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1207/A>

<http://dx.doi.org/10.3133/ofr20131207A>

doi: 10.3133/ofr20131207A

USGS Afghanistan Project Product No. 233

234 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3262, FARAH (421) AND HOKUMAT-E-PUR-CHAMAN (422) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1207-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1207/B>

<http://dx.doi.org/10.3133/ofr20131207B>

doi: 10.3133/ofr20131207B

USGS Afghanistan Project Product No. 234

235 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3466, LA'L WA SAR JANGAL (507) AND BAMYAN (508) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1208-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1208/A>

<http://dx.doi.org/10.3133/ofr20131208A>

doi: 10.3133/ofr20131208A

USGS Afghanistan Project Product No. 235

236 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3466, LA'L WA SAR JANGAL (507) AND BAMYAN (508) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1208-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1208/B>

<http://dx.doi.org/10.3133/ofr20131208B>

doi: 10.3133/ofr20131208B

USGS Afghanistan Project Product No. 236

237 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3362, SHINDAND (415) AND TULAK (416) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1209-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1209/A>

<http://dx.doi.org/10.3133/ofr20131209A>

doi: 10.3133/ofr20131209A

USGS Afghanistan Project Product No. 237

238 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3362, SHINDAND (415) AND TULAK (416) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1209-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1209/B>

<http://dx.doi.org/10.3133/ofr20131209B>

doi: 10.3133/ofr20131209B

USGS Afghanistan Project Product No. 238

239 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3368, GHAZNI (515) AND GARDEZ (516) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1210-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1210/A>

<http://dx.doi.org/10.3133/ofr20131210A>

doi: 10.3133/ofr20131210A

USGS Afghanistan Project Product No. 239

240 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3368, GHAZNI (515) AND GARDEZ (516) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1210-B. 1 sheet(s). Scale 1:250,000

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<http://dx.doi.org/10.3133/ofr20131210B>

doi: 10.3133/ofr20131210B

USGS Afghanistan Project Product No. 240

241 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3364, PASABAND (417)**

**AND MARKAZ-E KAJIRAN (418) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1211-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1211/A>

<http://dx.doi.org/10.3133/ofr20131211A>

doi: 10.3133/ofr20131211A

USGS Afghanistan Project Product No. 241

242 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3364, PASABAND (417) AND MARKAZ-E KAJIRAN (418) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1211-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1211/B>

<http://dx.doi.org/10.3133/ofr20131211B>

doi: 10.3133/ofr20131211B

USGS Afghanistan Project Product No. 242

243 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3464, SHAHRAK (411) AND KASI (412) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1212-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1212/A>

<http://dx.doi.org/10.3133/ofr20131212A>

doi: 10.3133/ofr20131212A

USGS Afghanistan Project Product No. 243

244 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Johnson, Michaela R.; Giles, Stuart A. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3464, SHAHRAK (411) AND KASI (412) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1212-B. 1 sheet(s). Scale 1:250,000

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doi: 10.3133/ofr20131212B

USGS Afghanistan Project Product No. 244

245 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3570, TAGAB-E-MUNJAN (505) AND ASMAR-KAMDESH (506) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1213-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1213/A>

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doi: 10.3133/ofr20131213A

USGS Afghanistan Project Product No. 245

246 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3570, TAGAB-E-MUNJAN (505) AND ASMAR-KAMDESH (506) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1213-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1213/B>

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doi: 10.3133/ofr20131213B

USGS Afghanistan Project Product No. 246

247 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 3666 AND 3766, BALKH (219), MAZAR-E SHARIF (220), QARQIN (213), AND HAZARA TOGHAI (214) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1214-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1214/A>

<http://dx.doi.org/10.3133/ofr20131214A>

doi: 10.3133/ofr20131214A

USGS Afghanistan Project Product No. 247

248 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 3666 AND 3766, BALKH (219), MAZAR-E SHARIF (220), QARQIN (213), AND HAZARA TOGHAI (214) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1214-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1214/B>

<http://dx.doi.org/10.3133/ofr20131214B>

doi: 10.3133/ofr20131214B

USGS Afghanistan Project Product No. 248

249 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3564, JOWAND (405) AND GURZIWAN (406) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1215-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1215/A>

<http://dx.doi.org/10.3133/ofr20131215A>

doi: 10.3133/ofr20131215A

USGS Afghanistan Project Product No. 249

250 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3564, JOWAND (405) AND GURZIWAN (406) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIAL**

U.S. Geological Survey Open-File Report 2013-1215-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1215/B>

<http://dx.doi.org/10.3133/ofr20131215B>

doi: 10.3133/ofr20131215B  
USGS Afghanistan Project Product No. 250

251 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 3668 AND 3768, BAGHLAN (221), TALUQAN (222), IMAM SAHIB (215), AND RUSTAQ (216) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1216-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1216/A>

<http://dx.doi.org/10.3133/ofr20131216A>

doi: 10.3133/ofr20131216A

USGS Afghanistan Project Product No. 251

252 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 3668 AND 3768, BAGHLAN (221), TALUQAN (222), IMAM SAHIB (215), AND RUSTAQ (216) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1216-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1216/B>

<http://dx.doi.org/10.3133/ofr20131216B>

doi: 10.3133/ofr20131216B

USGS Afghanistan Project Product No. 252

253 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3670, JURM-KISHIM (223) AND ZEBAK (224) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1217-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1217/A>

<http://dx.doi.org/10.3133/ofr20131217A>

doi: 10.3133/ofr20131217A

USGS Afghanistan Project Product No. 253

254 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3670, JURM-KISHIM (223) AND ZEBAK (224) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1217-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1217/B>

<http://dx.doi.org/10.3133/ofr20131217B>

doi: 10.3133/ofr20131217B

USGS Afghanistan Project Product No. 254

255 Hoefen, Todd M.; Kokaly, Raymond F.; King, Trude V. V.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 2962 AND 3062, GAWDEZEREH (615), GALACHAH (616), CHAHAR BURJAK (609), AND KHAN NESHIN (610) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED**



## **MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1218-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1218/A>

<http://dx.doi.org/10.3133/ofr20131218A>

doi: 10.3133/ofr20131218A

USGS Afghanistan Project Product No. 255

256 Hoefen, Todd M.; King, Trude V. V.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 2962 AND 3062, GAWDEZEREH (615), GALACHAH (616), CHAHAR BURJAK (609), AND KHAN NESHIN (610) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

2013-1218-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1218/B>

<http://dx.doi.org/10.3133/ofr20131218B>

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USGS Afghanistan Project Product No. 256

257 Kokaly, Raymond F.; King, Trude V. V.; Hoefen, Todd M.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3770, FAIZABAD (217) AND PARKHAW (218) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1219-A. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1219/A>

<http://dx.doi.org/10.3133/ofr20131219A>

doi: 10.3133/ofr20131219A

USGS Afghanistan Project Product No. 257

258 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLE 3770, FAIZABAD (217) AND PARKHAW (218) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1219-B. 1 sheet(s). Scale 1:250,000

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<http://dx.doi.org/10.3133/ofr20131219B>

doi: 10.3133/ofr20131219B

USGS Afghanistan Project Product No. 258

259 King, Trude V. V.; Hoefen, Todd M.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 2964, 2966, 3064, AND 3066, SHAH-ESMAIL (617), REG-ALAQADARI (618), SAMANDKHAN-KAREZ (713), LAKI-BANDER (611), JAHANGIR-NAWERAN (612), AND SREH-CHENA (707) QUADRANGLES, AFGHANISTAN, SHOWING CARBONATES, PHYLLOSILICATES, SULFATES, ALTERED MINERALS, AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1220-A. 1 sheet(s). Scale 1:250,000

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<http://dx.doi.org/10.3133/ofr20131220A>

USGS Afghanistan Project Product No. 259

260 Hoefen, Todd M.; King, Trude V. V.; Kokaly, Raymond F.; Livo, Keith E.; Giles, Stuart A.; Johnson, Michaela R. 2013. **HYPERSPECTRAL SURFACE MATERIALS MAP OF QUADRANGLES 2964, 2966, 3064, AND 3066, SHAH-ESMAIL (617), REG-ALAQADARI (618), SAMANDKHAN-KAREZ (713), LAKI-BANDER (611), JAHANGIR-NAWERAN (612), AND SREH-CHENA (707) QUADRANGLES, AFGHANISTAN, SHOWING IRON-BEARING MINERALS AND OTHER MATERIALS**

U.S. Geological Survey Open-File Report 2013-1220-B. 1 sheet(s). Scale 1:250,000

<http://pubs.usgs.gov/of/2013/1220/B>

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261 Peters, Stephen G.; Stettner, Will R.; Mathieux, D. Paul; Masonic, Linda M.; Moran, Thomas W. (compiler(s)). 2014. **GEOLOGIC MAP OF METALLIC AND NON-METALLIC MINERAL DEPOSITS, BADAQSHAN PROVINCE, AFGHANISTAN, MODIFIED FROM THE ORIGINAL MAP COMPILATIONS OF M.P. GUGUEV AND OTHERS (1966) AND G.G. SEMENOV AND OTHERS (1967)**

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262 Peters, Stephen G.; Stettner, Will R.; Masonic, Linda M. (compiler(s)). 2014. **GEOLOGIC MAP OF THE WEKA DUR DEPOSIT, BADAQSHAN PROVINCE, AFGHANISTAN, MODIFIED FROM THE 1966 ORIGINAL COMPILATIONS OF M.P. GUGUEV, G.G. SKIPIN, AND M. A. BOGOMOLOV**

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263 Mack, Thomas J.; Chornack, Michael P.; Flanagan, Sarah M.; Chalmers, Ann T. 2014. **HYDROGEOLOGY AND WATER QUALITY OF THE CHAKARI BASIN, AFGHANISTAN**

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264 Vining, Kevin C.; Vecchia, Aldo V. 2014. **ESTIMATED MONTHLY STREAMFLOWS FOR SELECTED LOCATIONS ON THE KABUL AND LOGAR RIVERS, AYNAK COPPER, COBALT, AND CHROMIUM AREA OF INTEREST, AFGHANISTAN, 1951–2010**

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265 Mack, Thomas J.; Chornack, Michael P.; Vining, Kevin C.; Amer, Saud A.; Zaheer, Mohammad F.; Medlin, Jack H. 2014. **WATER RESOURCES ACTIVITIES OF THE U.S. GEOLOGICAL SURVEY IN AFGHANISTAN FROM 2004 THROUGH 2014**

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266 Davis, Philip A. 2006. **CALIBRATED LANDSAT ETM+ NONTHERMAL-BAND IMAGE MOSAICS OF AFGHANISTAN**

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267 Davis, Philip A. 2007. **LANDSAT ETM+ FALSE-COLOR IMAGE MOSAICS OF AFGHANISTAN**

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268 Davis, Philip A. (compiler(s)). 2012. **LOCAL-AREA-ENHANCED, HIGH-RESOLUTION NATURAL-COLOR AND COLOR-INFRA-RED SATELLITE-IMAGE MOSAICS OF MINERAL DISTRICTS IN AFGHANISTAN**

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USGS Afghanistan Project Product No. 268

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USGS Afghanistan Project Product No. 268

Note: This is an image mosaic in the USGS Data Series 709 publication listed as Product No. 268 above. Subsequent image mosaics in the same publication were assigned separate Product Numbers (269-299).

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