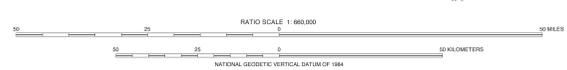
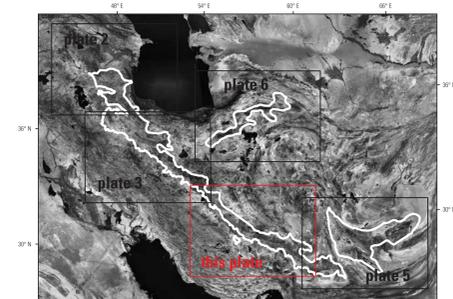


Base is Landsat Thematic Mapper band 7
grayscale image (http://landsat.usgs.gov)
Universal Transverse Mercator projection

ASTER
Advanced Spaceborne Thermal Emission and Reflection
Radiometer (ASTER) data were used to map hydrothermal
alteration, including argillic and phyllic altered rocks



ASTER
Advanced Spaceborne Thermal Emission and Reflection
Radiometer (ASTER) data were used to map hydrothermal
alteration, including argillic and phyllic altered rocks



Index map showing location of this ASTER hydrothermal alteration map area (red outline), bordering map areas (black outlines), and volcanic belt boundaries (white outlines).

EXPLANATION

[NOTE FOR PLOT USERS: Small, isolated data areas may be difficult to see on photos; see files for detail (http://pubs.usgs.gov/sir/2010/5090/0/)]

Alteration units, mapped using ASTER data

- Phyllic-altered rocks
- Argillic-altered rocks
- Volcanic belt boundary

ASTER Hydrothermal Alteration Map of the South-Central Urumieh-Dokhtar Volcanic Belt, South-Central Iran

By
John C. Mars
2014

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

This map was prepared on an electronic platform directly from digital files. Dimensional calibration may vary between electronic platforms and printers. Use of this map on any other platform and printer may produce size and color differences. Conditions, therefore, vary and are not guaranteed. For more information, contact the U.S. Geological Survey, Data Users Support Center, Denver, CO 80202, 1-888-456-4563.

ASTER data available at: <http://pubs.usgs.gov/asterv2/>

Suggested citation: Mars, J.C., 2014, ASTER hydrothermal alteration map of the south-central Urumieh-Dokhtar volcanic belt, Iran, version 1.0, U.S. Geological Survey, Scientific Investigations Report 2010-5090-0, available at <http://pubs.usgs.gov/sir/2010/5090/0/>.

U.S. Geological Survey, Department of the Interior, U.S. Department of Energy, U.S. Department of Agriculture, U.S. Department of Commerce, U.S. Department of Defense, U.S. Department of Education, U.S. Department of Health and Human Services, U.S. Department of Justice, U.S. Department of Labor, U.S. Department of State, U.S. Department of Transportation, U.S. Department of the Environment, U.S. Department of the Interior, U.S. Department of Veterans Affairs, U.S. Department of Homeland Security, U.S. Department of Energy, U.S. Department of Agriculture, U.S. Department of Commerce, U.S. Department of Defense, U.S. Department of Education, U.S. Department of Health and Human Services, U.S. Department of Justice, U.S. Department of Labor, U.S. Department of State, U.S. Department of Transportation, U.S. Department of the Environment, U.S. Department of the Interior, U.S. Department of Veterans Affairs, U.S. Department of Homeland Security.

Scientific Investigations Report 2010-5090-0, 10 pages, and quality data, available at <http://pubs.usgs.gov/sir/2010/5090/0/>