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

Scientific Investigations Report 2010–5090–O
Plate 10 of 10

60° E 62° E 64° E 66° E

30° N 28° N

URUMIEH-DOKHTAR VOLCANIC BELT

CHAGAI VOLCANIC BELT

Koh-i-Soltan Volcano

Taftan Volcano

Bazman Volcano

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

APPROXIMATE MEAN DECLINATION, 2014

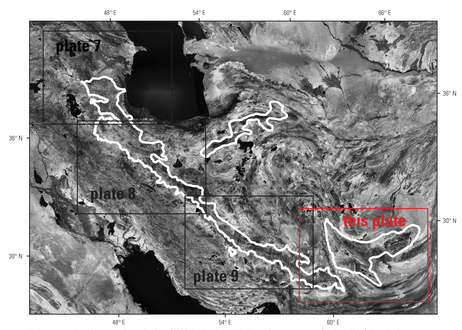
RATIO SCALE 1: 660,000

50 25 0 50 MILES

50 25 0 50 KILOMETERS

NATIONAL GEODETIC VERTICAL DATUM OF 1984

Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) hydrothermal alteration data was used to map alteration interpreted as potential porphyry copper sites. See appendix B table (available online only at http://pubs.usgs.gov/sir/2010/5090/o/) for physical characteristics and locations of potential porphyry copper sites, listed by site number.



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 plots; see files for detail (http://pubs.usgs.gov/sir/2010/5090/o/)]

Alteration units, mapped using ASTER data

- Phyllic-altered rocks
- Argillic-altered rocks
- Volcanic belt boundary
- Potential porphyry copper site

Map of Potential Porphyry Copper Sites and ASTER Hydrothermal Alteration in the Southeastern Urumieh-Dokhtar and Chagai Volcanic Belts, Southeastern Iran, Southwestern Pakistan, and Southern Afghanistan

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This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and between X and Y directions on the same plotter, and paper may change size due to atmospheric conditions; therefore, scale and proportions may not be true on plots of this map.

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Digital files available at http://pubs.usgs.gov/sir/2010/5090/o/

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