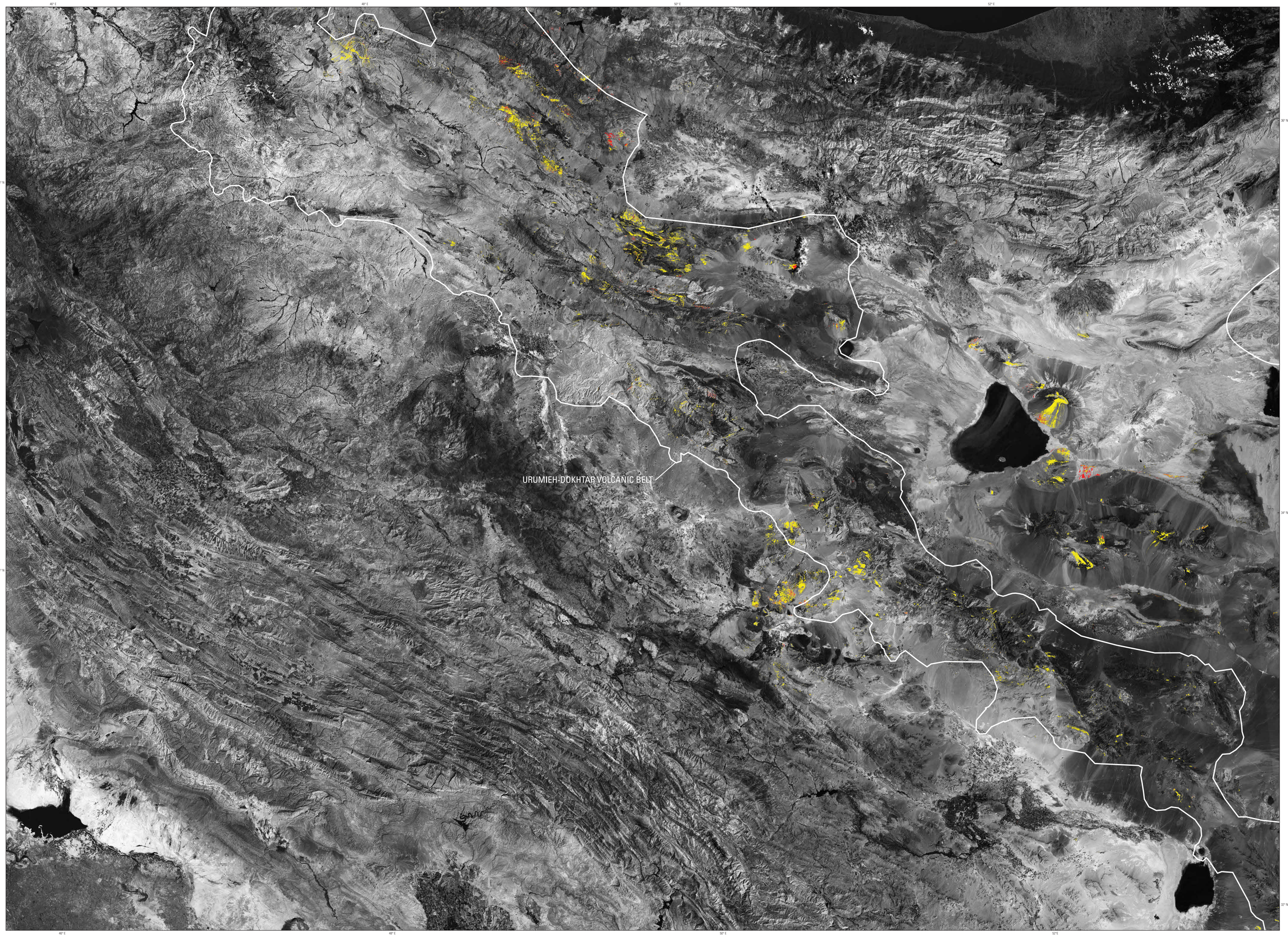


Base is Landsat Thematic Mapper, band 7 grayscale image (http://landsat.usgs.gov)
Universal Transverse Mercator projection

4.5°
APPROXIMATE MEAN DECLINATION, 2014

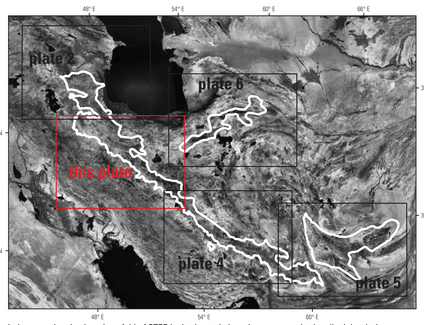
RATIO SCALE 1: 660,000

50 25 0 50 MILES

50 25 0 50 KILOMETERS

NATIONAL GEODETIC VERTICAL DATUM OF 1984

Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) data was 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 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

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

By
John C. Mars
2014

ISSN 2328-0328 (online)
http://dx.doi.org/10.3133/sir20105090O

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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/

Suggested citation: Mars, J. C., 2014, ASTER hydrothermal alteration map of the north-central Urumieh-Dokhtar volcanic belt, north-central Iran, *plate 3 in* Mars, J.C., 2014, Regional mapping of hydrothermally altered igneous rocks along the Urumieh-Dokhtar, Chagai, and Alborz Belts of western Asia using Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) data and Interactive Data Language (IDL) logical operators—A tool for porphyry copper exploration and assessment: U.S. Geological Survey Scientific Investigations Report 2010–5090–O, 36 p., 10 plates, and spatial data, available at http://dx.doi.org/10.3133/sir20105090O.