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

Scientific Investigations Report 2010–5090–N
Plate 2 of 8

78°E 80°E 82°E

48°N 46°N

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

APPROXIMATE MEAN DECLINATION, 2014

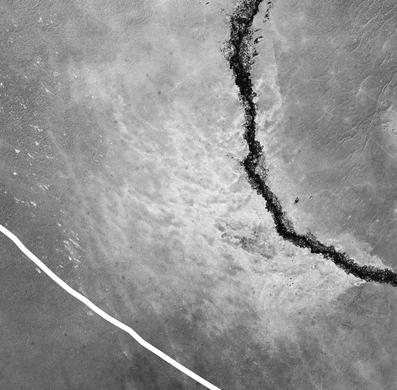
RATIO SCALE 1: 660,000

50 25 0 50 MILES

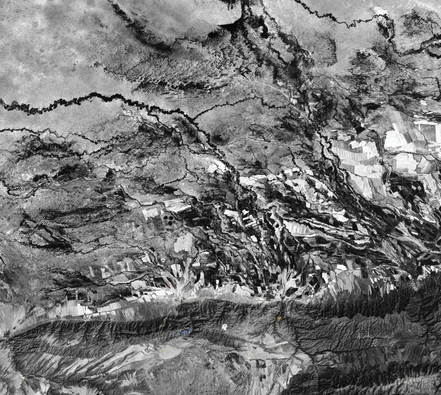
50 25 0 50 KILOMETERS

NATIONAL GEODETIC VERTICAL DATUM OF 1984

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



Index map showing location of study area, this map area (red outline), and bordering map areas (black outlines).



Index map showing location of this ASTER hydrothermal alteration map area (red outline), bordering map areas (black outlines), and permissive tract 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/n/)]

Alteration units, mapped using ASTER data

- Phyllic-altered rocks
- Silicic-altered rocks
- Argillic-altered rocks
- Permissive tract boundary

ASTER Hydrothermal Alteration Map of Northeastern Part of Study Area, Eastern Kazakhstan and Western China, Western Central Asia

By
John C. Mars

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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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