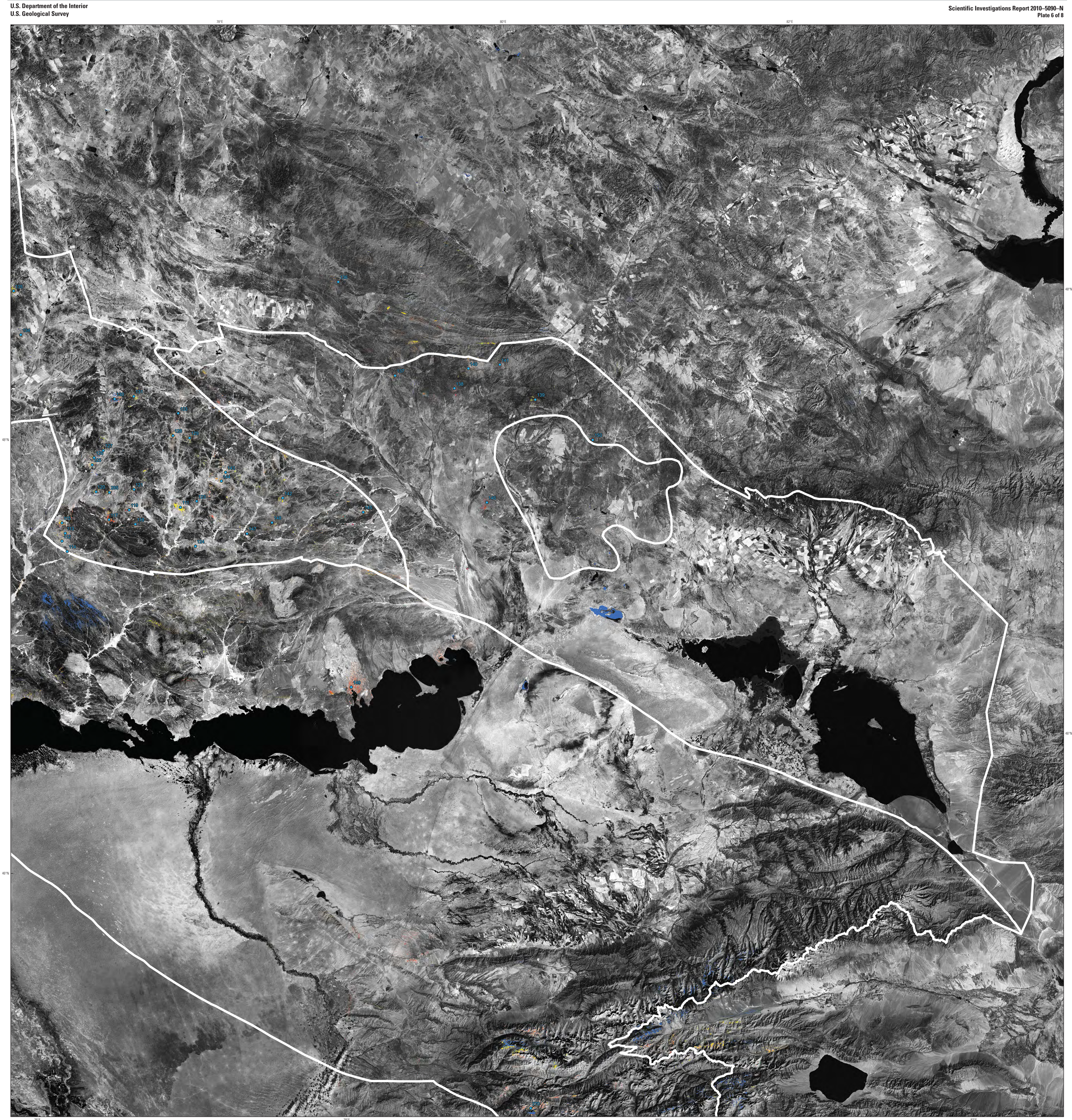
U.S. Department of the Interior
U.S. Geological Survey

Scientific Investigations Report 2010–5090–N
Plate 6 of 8



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 were used to map potential porphyry copper sites. See table 2-1 (available online only at http://pubs.usgs.gov/sir/2010/5090/n/) for physical characteristics and locations of potential porphyry copper sites, listed by site number.

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
- Potential porphyry copper site

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

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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.

For sale by U.S. Geological Survey, Information Services, Box 25286, Federal Center, Denver, CO 80225, 1–888–ASK–USGS

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

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