

Glacial Geomorphology of the Altai and western Sayan mountains, Central Asia

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Legend

Glacial valley

Marginal moraine

Hummocky terrain

Glacial lineations

Glacier

5200

0 m a.s.l.

Lake

River

National boundary

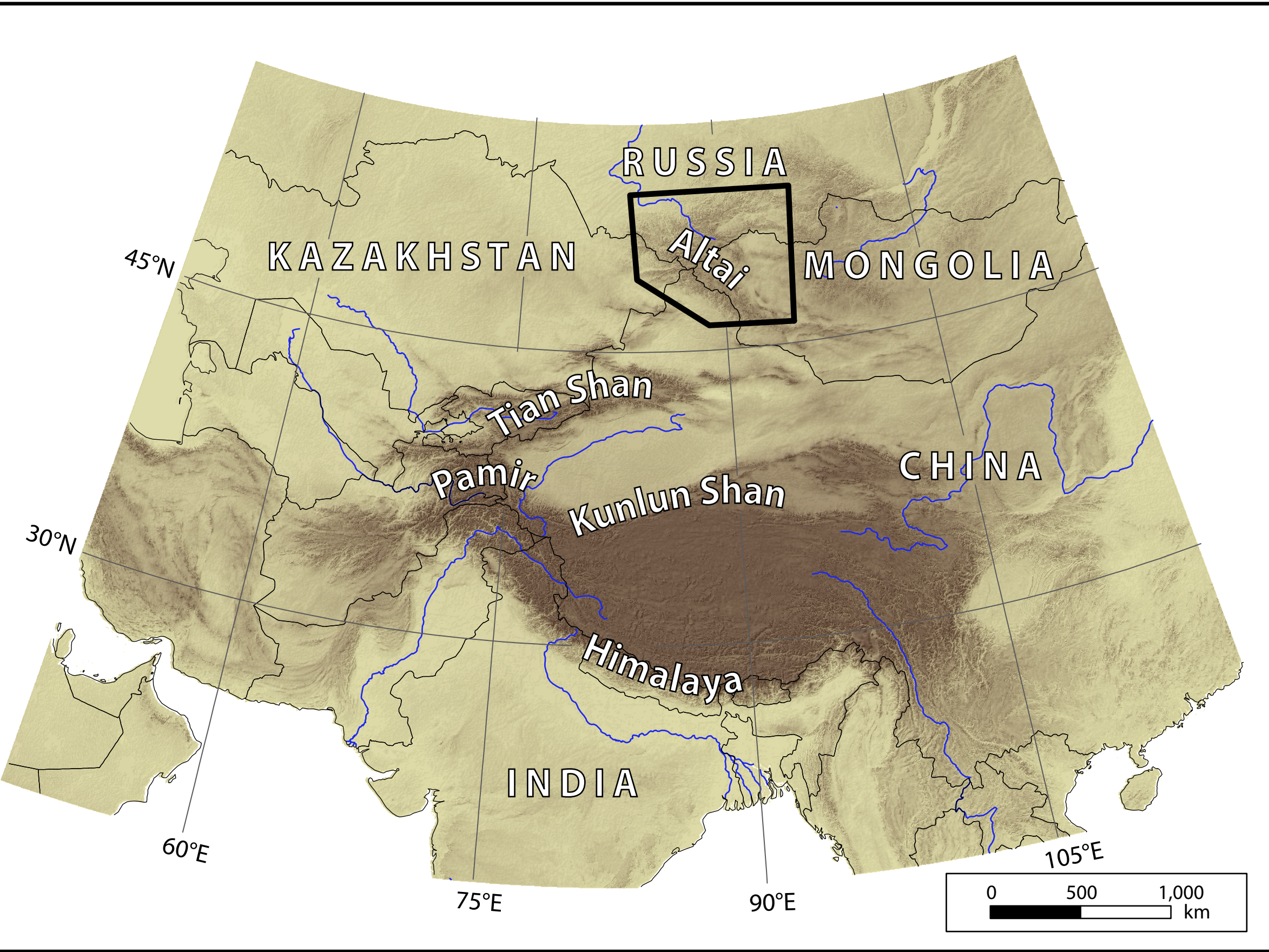
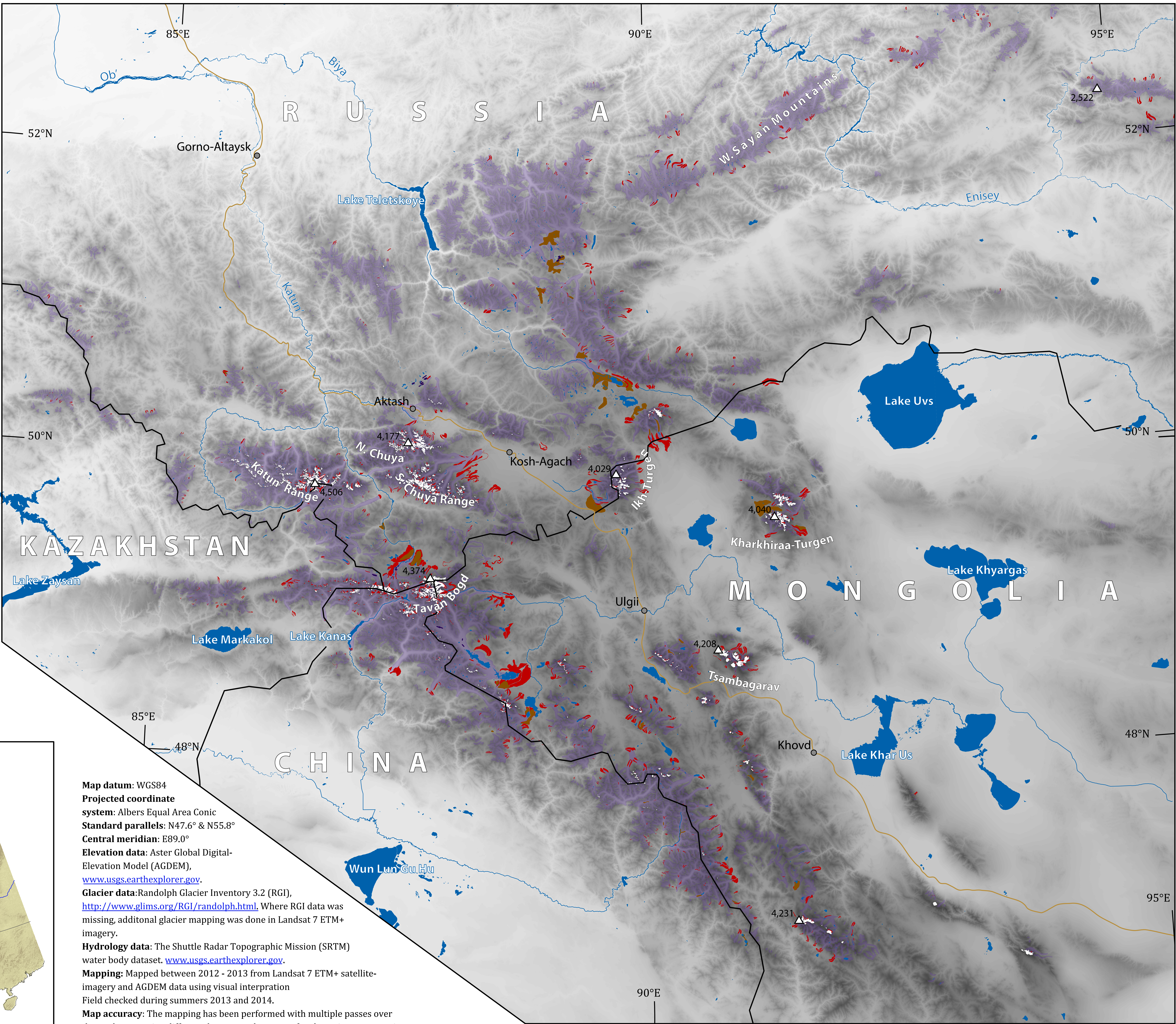
Major road

Major settlement

Peak and altitude (m a.s.l.)

Scale 1: 1,000,000

0 50 100 150 km



Map datum: WGS84
Projected coordinate system: Albers Equal Area Conic
Standard parallels: N47.6° & N55.8°
Central meridian: E89.0°
Elevation data: Aster Global Digital Elevation Model (AGDEM), www.usgs.earthexplorer.gov.
Glacier data: Randolph Glacier Inventory 3.2 (RGI), <http://www.glims.org/RGI/randolph.html>. Where RGI data was missing, additional glacier mapping was done in Landsat 7 ETM+ imagery.
Hydrology data: The Shuttle Radar Topographic Mission (SRTM) water body dataset. www.usgs.earthexplorer.gov.
Mapping: Mapped between 2012 - 2013 from Landsat 7 ETM+ satellite imagery and AGDEM data using visual interpretation. Field checked during summers 2013 and 2014.
Map accuracy: The mapping has been performed with multiple passes over the study area using different datasets and a range of scales to increase consistency. The resolution of the Landsat 7 ETM+ imagery is about 30 m for the colour bands and 15 m for the panchromatic band (number 8). The resolution of the AGDEM is also 30 m; hence landforms smaller than 30 m have not been mapped.