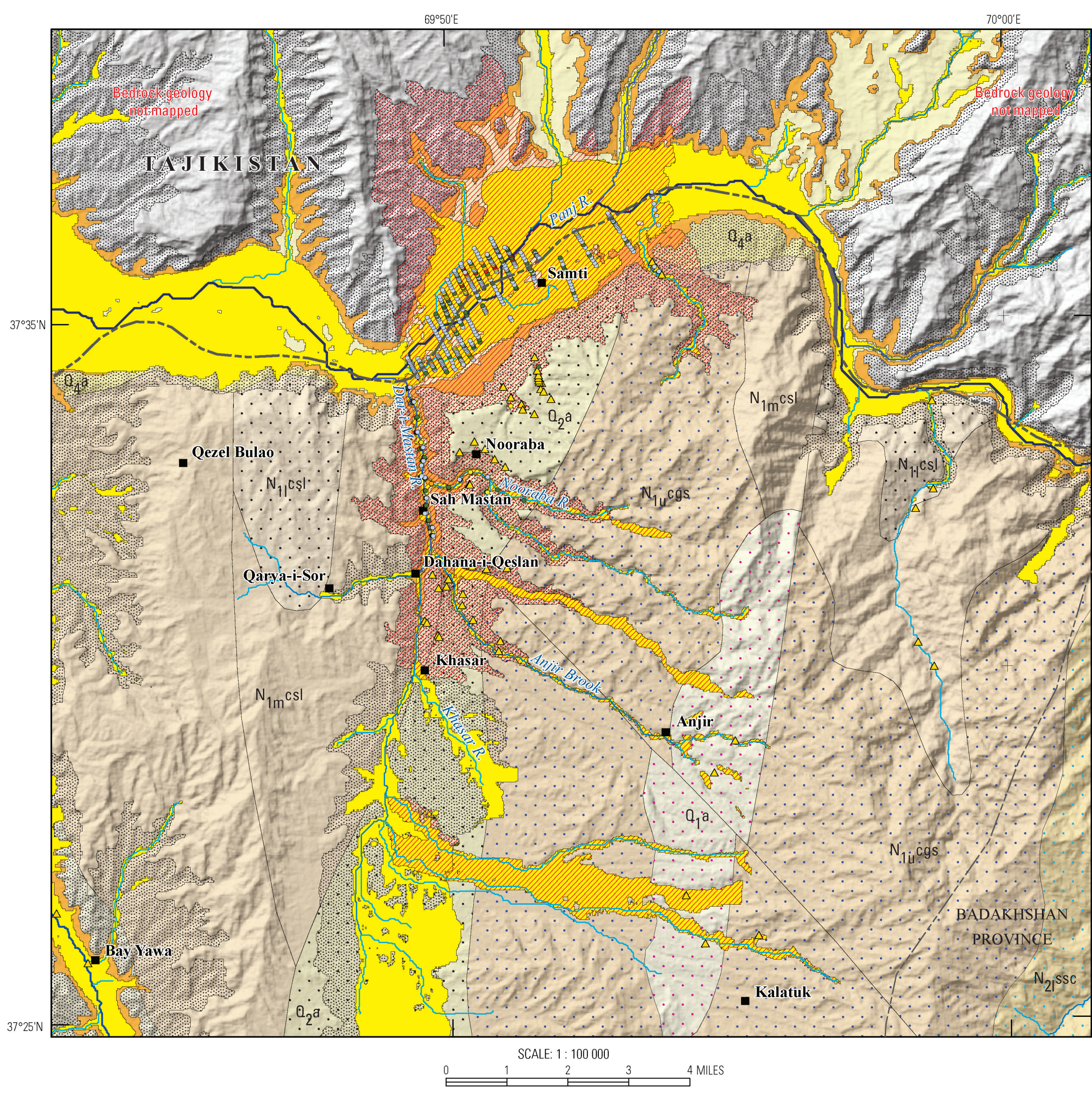


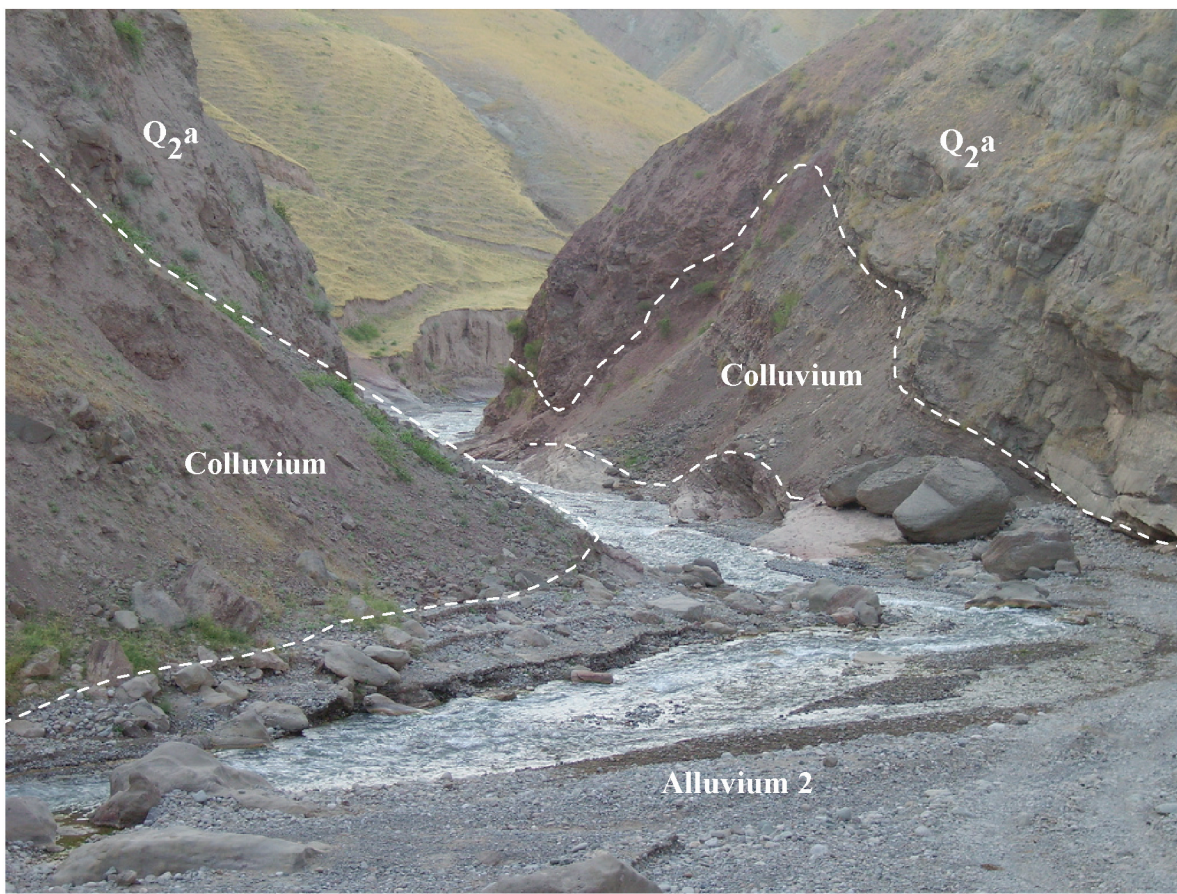
A. North Takhar study areas.



B. Samti-Nooraba-Khasar-Anjir study area.



D. Photograph showing the alluvium, terrace, and conglomerate and sandstone terrain features of Samti village. Creative Commons image courtesy of nabard19 on Flickr.



E. Photograph of a small tributary of the Dari-i-Mastan River in the Nooraba-Khasar-Anjir area, showing little alluvium in a narrow, steep-sided valley, typical of the region. Creative Commons image courtesy of nabard19 on Flickr.

EXPLANATION FOR FIGURES 64–E

DESCRIPTION OF MAP UNITS

Layered Rocks

Q ₄ ^a	Conglomerate and sandstone (Holocene)
Q ₃₄ ^a	Conglomerate and sandstone (Holocene and late Pleistocene)
Q ₃ ^a	Conglomerate and sandstone (late Pleistocene)
Q ₂ ^a	Conglomerate and sandstone (middle Pleistocene)
Q ₂ ^{loe}	Loess (middle Pleistocene)
Q ₁ ^a	Conglomerate and sandstone (early Pleistocene)
N ₂₀ ^{cbs}	Conglomerate and sandstone (late Pliocene)
N ₂ ^{ssc}	Sandstone and conglomerate (early Pliocene)
N ₁₀ ^{cbs}	Conglomerate and sandstone (late Miocene)
N ₁ ^{csl}	Clay and siltstone (middle Miocene)
N ₁ ^{csl}	Clay and siltstone (early Miocene)
P ₂ ^{csh}	Clay and shale (Eocene)
KP ₁ ^{ld}	Limestone and dolomite (Paleocene and Late Cretaceous)
K ₂ ^{ssl}	Sandstone and siltstone (Late Cretaceous)
K ₁ ^{ssc}	Sandstone and conglomerate (Early Cretaceous)
C ₁₀ ^{bss}	Basalt and sandstone (Early Carboniferous (Namurian))
Ossl	Sandstone and siltstone (Ordovician)
X ₁ ^{gn}	Gneiss (early Paleoproterozoic)

Plutonic Rocks

T ₁ ^{gr}	Granite (Early Triassic)
C ₁ ^{dig}	Diorite and granodiorite (Early Carboniferous)
C ₁ ^{gbd}	Gabbro and diorite (Early Carboniferous)

Geomorphic Unit Classification

Gold-bearing alluvium 1 / Non-evaluated alluvium 1 (Quaternary)
Gold-bearing alluvium 2 / Non-evaluated alluvium 2 (Quaternary)
Gold-bearing terraces / Non-evaluated terraces (Quaternary)
Gold-bearing colluvium, derived from local underlying bedrock / Non-evaluated colluvium, derived from local underlying bedrock (Quaternary and Tertiary)

EXPLANATION OF MAP SYMBOLS

Minerals (figs. 64–C)

Vein gold
Skam copper, gold-bearing
Gold occurrence (unclassified)

Gold sampling from previous investigations

Concentration sampling point
Boreholes: gold content in milligrams per cubic meter (mg/m ³)
1–100
100–400
400–800
800–2,000
2,000–4,000

Base Layers (figs. 6B, C)

Strahler stream order

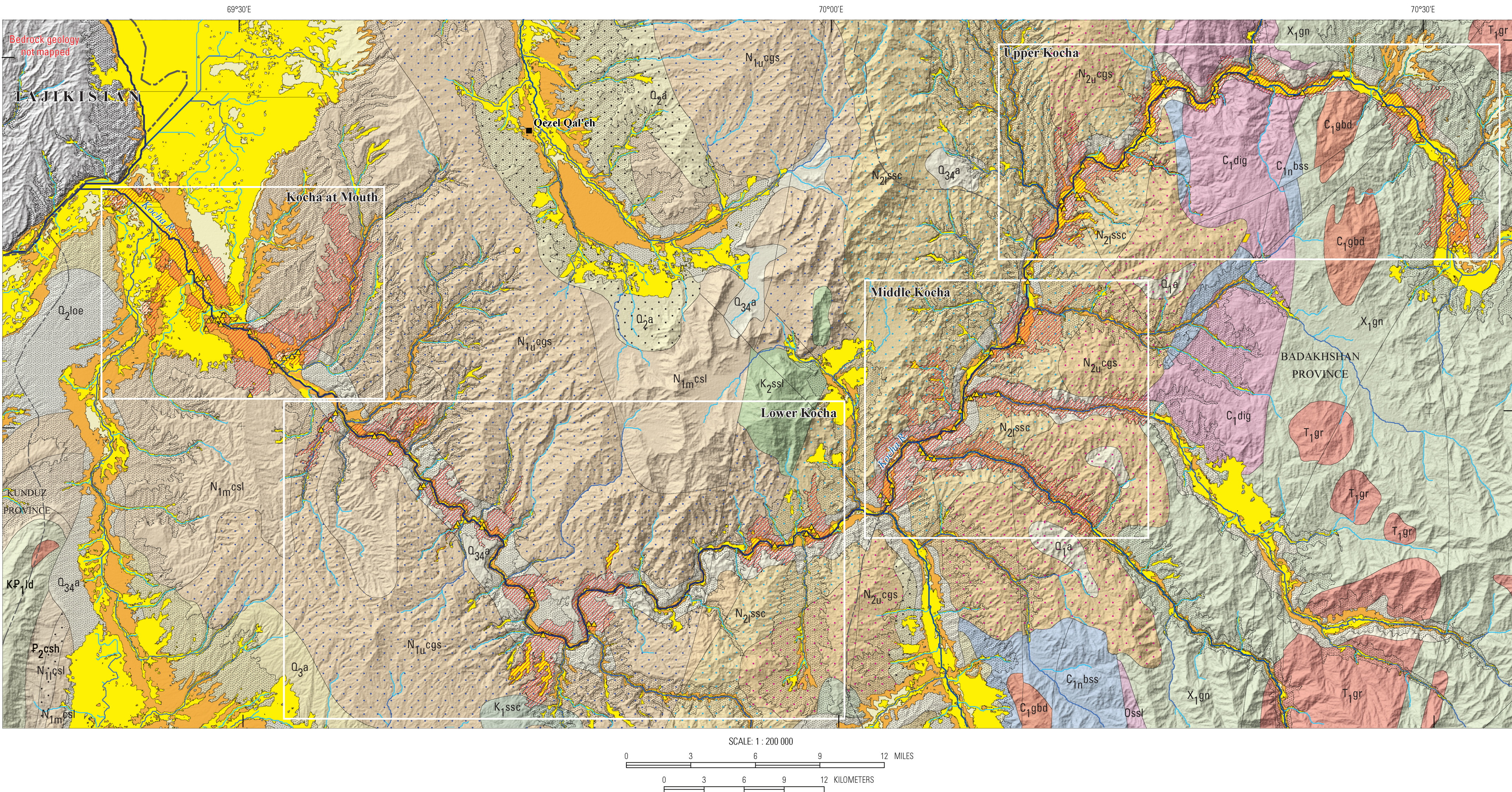
3
4
5
6
7
8

DATA SOURCES

Shaded relief derived from Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) 30-meter Global Digital Elevation Model (GDEM) Version 2 data.
Image base layer data derived from Landsat 7 imagery.
Hydrography and geomorphology derived from ASTER GDEM Version 2 data.

Layered and plutonic rock descriptions from Doebrich and Wahl (2006), modified from Abdullah and Chmyriov (1977) and Abdullah and others (1977).
Placer gold concentration points and borehole locations from the Afghan Geological Survey. Vein gold, gold-bearing skam copper, and unclassified gold occurrences from Abdullah and Chmyriov (1977) and Abdullah and others (1977).

Cultural data and political boundaries from the Afghanistan Information Management Service (AIMS) Web site (<http://www.aims.org.af>).
Projection: Universal Transverse Mercator (UTM), zone 42 north, World Geodetic System (WGS) 1984 Datum.



C. Kocha River study area.

Figure 6. Maps and photographs showing the geologic and geomorphic units of the placer gold deposits in the North Takhar Area of Interest, Takhar Province, Afghanistan.