

# Geologic map and cross sections of the Little Buckskin Mountains, La Paz County, west-central Arizona

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Arizona Geological Survey Contributed Map CM-11-B

Arizona Geological Survey Contributed Map Series

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## Map Units

- Qal** Quaternary alluvium (undifferentiated)
- Kgm** mylonitized Late Cretaceous (?) leucogranite (~60-75%) with mylonitized Proterozoic to Cretaceous layered gneisses (~15-20%), mylonitized meta-arkose (?) (~10-15%), and amphibolite (~5-10%); leucogranite typically has 1-6% biotite + <math>\pm</math> 2% muscovite + trace garnet; gneisses are characterized by alternating cm-scale quartz-feldspathic and biotite-hornblende-rich layers; amphibolite is dominantly hornblende + plagioclase + biotite; meta-arkoses (?) are platy, with mm-scale quartz-feldspathic and quartz-rich layers; mylonitization within this unit is heterogeneous, ranging from unmylonitized amphibolite and quartz-poor phases of leucogranitoid to ultramylonites; microstructural analysis indicates that most mylonitization occurred in the amphibolite facies during top-to-the-NE-directed shear
- msm** mylonitized metasedimentary rocks (Proterozoic?); dominantly green-brown meta-arkose and quartzite with sm-scale layering; locally minor brown carbonate and calcareous quartzite are present; intensely fractured with chlorite-epidote alteration in most areas; microstructural analysis indicates that mylonitization occurred in the greenschist facies during top-to-the-NE-directed shear

## Symbols

- contact or foliation form line; dashed where approximate
- - - bedrock - alluvium contact
- ↖ fault with the dip direction and dip amount and the trend and plunge of slickenline lineation; dashed where approximate or inferred
- ⊙ foliation-parallel breccia zone
- ↗ axial trace of upright anticline
- ↘ axial trace of upright syncline
- ↖ strike and dip of gneissic foliation in amphibolite
- ↖ strike and dip of mylonitic foliation
- ↗ trend and plunge of mylonitic stretching lineation
- ⊙ horizontal mylonitic foliation and trend of horizontal lineation
- ↗ fold axis trend and plunge of m-scale upright anticline or syncline
- ↖ trend and plunge of slickenlines on a foliation surface



scale: 1:12,000  
contour interval: 10 m

