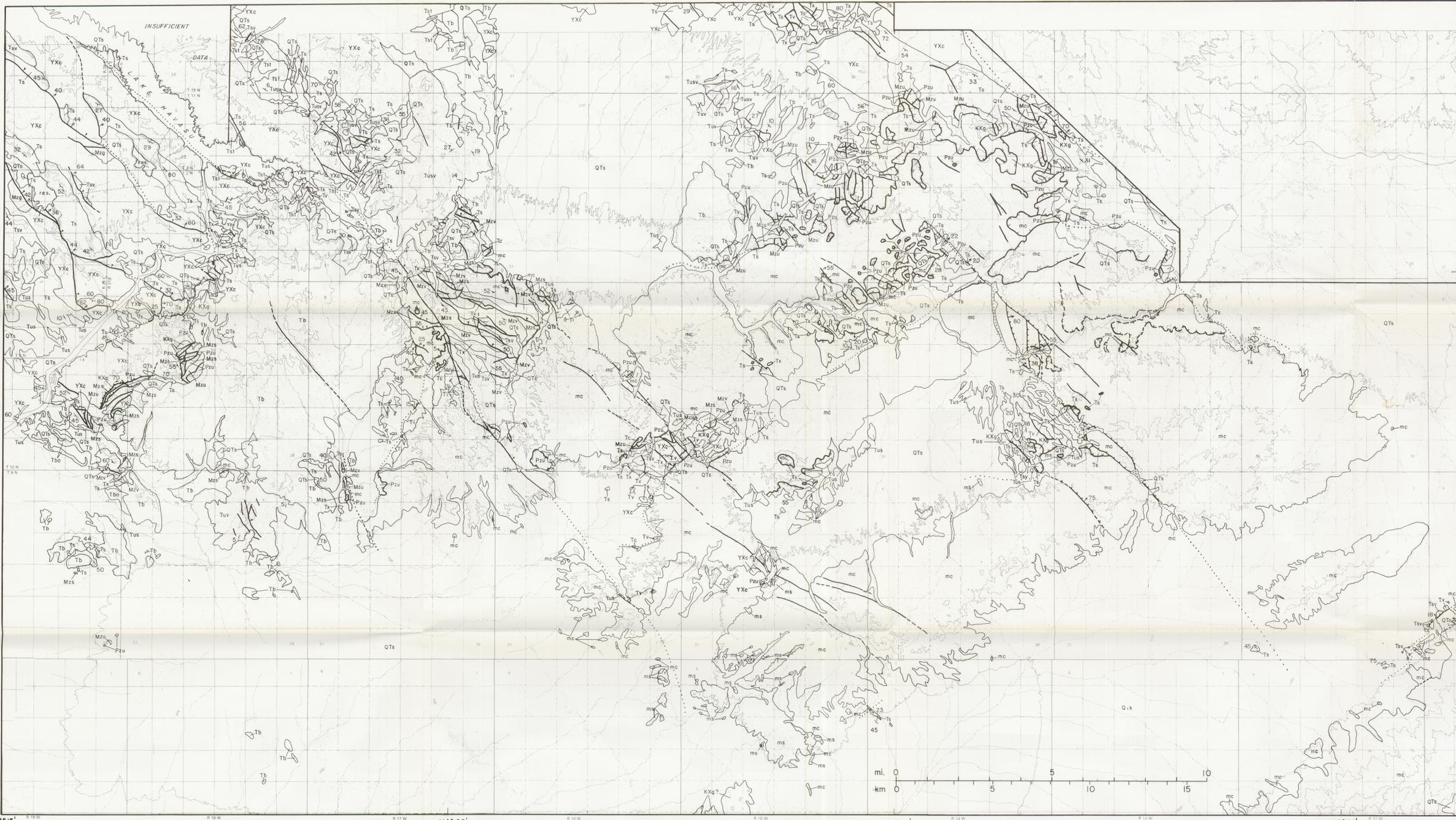


COMPILATION GEOLOGIC MAP OF THE BUCKSKIN AND RAWHIDE MOUNTAINS, WEST-CENTRAL ARIZONA

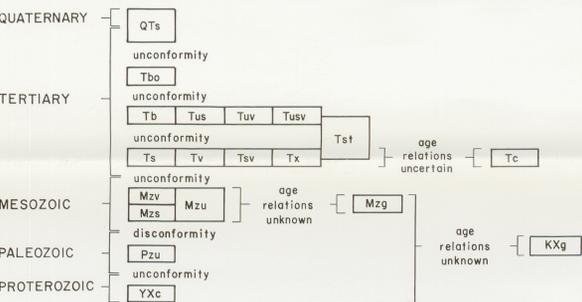
Jon E. Spencer, Compiler
1989
Scale 1:100,000

SOURCES OF MAP DATA

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- (6) Marshak, Stephen, Vander Mueller, Marc, and Bhagat, Snehal, 1987, Geology of the Battleship Peak area, Buckskin Mountains, La Paz County, Arizona: Arizona Bureau of Geology and Mineral Technology Miscellaneous Map MM-87-B, scale 1:8,000.
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- (10) Spencer, J.E., and Reynolds, S.J., 1989, Tertiary structure, stratigraphy, and tectonics of the Buckskin Mountains, in Spencer, J.E., and Reynolds, S.J., eds., Geology and mineral resources of the Buckskin and Rawhide Mountains, west-central Arizona: Arizona Geological Survey Bulletin 198, p. 103-167.
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- (12) Suneson, N.H., 1980, The origin of bimodal volcanism, west-central Arizona (Ph.D. thesis): Santa Barbara, University of California, 293 p.; Lucchitta, Ivo, and Suneson, Neil, Geologic map of the Planet 2 SW quadrangle, Mohave County, Arizona: U.S. Geological Survey Open-File Map 88-547, scale 1:24,000.; and Lucchitta, Ivo, and Suneson, Neil, Preliminary geologic map of the Planet 2 SE, Arizona, 7 1/2' quadrangle, scale 1:24,000, unpublished.
- (13) Woodward, R.J., 1981, The structural geology of the Swansea area, east-central Buckskin Mountains, Yuma County, Arizona: Los Angeles, University of Southern California, unpublished M.S. thesis, 106 p.; and Osborne, G.M., 1981, The structural geology of the Squaw Peak area of the Buckskin Mountains, Yuma County, Arizona: Los Angeles, University of Southern California, unpublished M.S. thesis, 164 p. (only data on lower-plate and Quaternary rocks used in compilation).



STRATIGRAPHIC CORRELATION DIAGRAM (LOWER-PLATE UNITS NOT INCLUDED)



UPPER-PLATE UNITS

Tst	SEDIMENTARY ROCKS, TRANSITIONAL UNIT (MIDDLE MIOCENE) -- Bedding in this unit is progressively less steeply dipping up section. The stratigraphically highest beds are subhorizontal. This unit is interpreted to have been deposited during the termination of extensional faulting and therefore is transitional between syn- and postdetachment deposits.
Tc	HYDROTHERMAL CARBONATE -- Forms massive replacements of a variety of host-rock types adjacent to the Buckskin-Rawhide detachment fault.
Ts	SEDIMENTARY ROCKS -- Includes limestone, siltstone, sandstone, conglomerate, and sedimentary breccia.
Tv	VOLCANIC ROCKS -- Primarily andesitic to basaltic flows and flow breccias.
Tsv	SEDIMENTARY AND VOLCANIC ROCKS, UNDIVIDED
Tx	SEDIMENTARY BRECCIA -- Interpreted as catastrophic debris-avalanche deposits.

Predetachment units

Mzv	METAVOLCANIC ROCKS -- Planet Volcanics of Jurassic age and local hypabyssal intrusions.
Mzs	METASEDIMENTARY ROCKS -- Buckskin Formation of Triassic age and Vampire Formation of Early(?) to Middle(?) Jurassic age, and probable correlatives.
Mzu	METASEDIMENTARY AND METAVOLCANIC ROCKS, UNDIVIDED
Mzg	GRANITIC ROCKS

Pzu	METASEDIMENTARY ROCKS (PALEOZOIC) -- Carbonate, quartzite, calc-silicate, and local phyllite.
KXg	GRANITIC ROCKS (PROTEROZOIC TO CRETACEOUS)
YXc	CRYSTALLINE ROCKS (PROTEROZOIC)
Ti	MYLONITIC INTRUSIVE ROCKS (MIDDLE TERTIARY(?) PROTOLITH)
ms	MYLONITIC METASEDIMENTARY ROCKS (PALEOZOIC TO MESOZOIC PROTOLITH)
mc	MYLONITIC CRYSTALLINE ROCKS (PROTEROZOIC TO TERTIARY PROTOLITH)

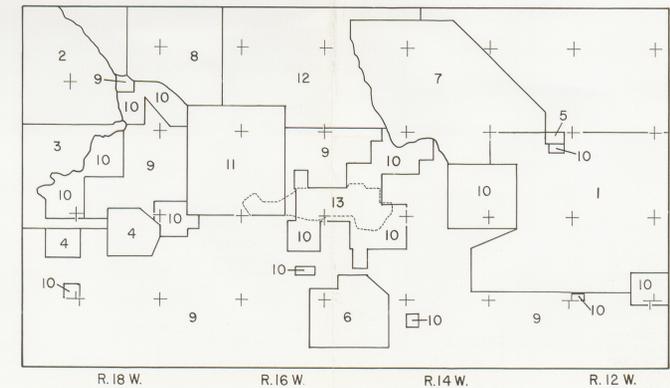
LOWER-PLATE UNITS

(MIDDLE TERTIARY MYLONITIZATION)

MAP SYMBOLS

40	BEDDING ATTITUDE
52	FOLIATION ATTITUDE
5	HIGH-ANGLE FAULT
Bar and ball on down-thrown block	HIGH-ANGLE NORMAL FAULT, SHOWING DIP -- Bar and ball on down-thrown block
12	LOW-ANGLE NORMAL FAULT -- Hatchures on upper plate
Double hatchures on upper plate	BUCKSKIN-RAWHIDE DETACHMENT FAULT, SHOWING DIP -- Double hatchures on upper plate
75	REVERSE OR THRUST FAULT, SHOWING DIP -- Teeth on upper plate

All faults dashed where inferred or approximately located, dotted where concealed.



MAP UNITS

POSTDETACHMENT UNITS

QTs	SURFICIAL DEPOSITS (LATEST TERTIARY TO QUATERNARY)
Tbo	BOUSE FORMATION (LATE MIOCENE TO PIOCENE)
Tb	UPPER BASALT
Tus	UPPER SEDIMENTARY ROCKS
Tuv	UPPER VOLCANIC ROCKS
Tuv	UPPER SEDIMENTARY AND VOLCANIC ROCKS, UNDIVIDED

(MIDDLE TO LATE MIOCENE)

In Spencer, J.E., and Reynolds, S.J., eds., 1989, Geology and mineral resources of the Buckskin and Rawhide Mountains, west-central Arizona: Arizona Geological Survey Bulletin 198, scale 1:100,000.