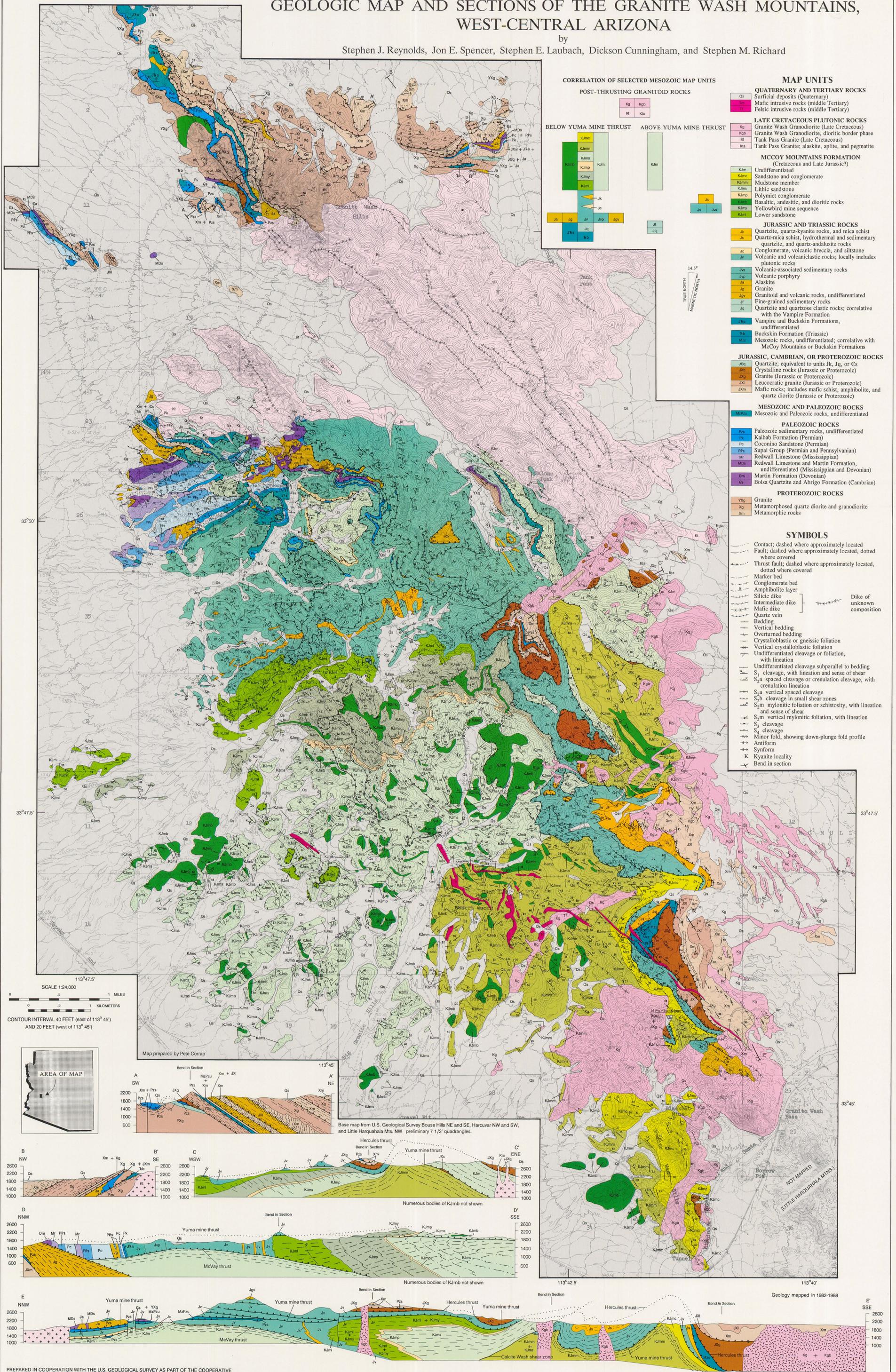


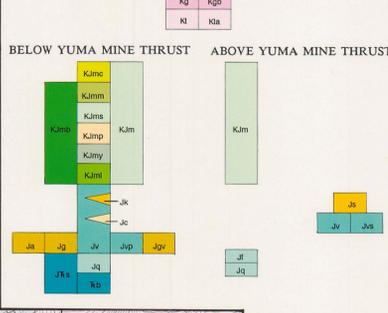
GEOLOGIC MAP AND SECTIONS OF THE GRANITE WASH MOUNTAINS, WEST-CENTRAL ARIZONA

by Stephen J. Reynolds, Jon E. Spencer, Stephen E. Laubach, Dickson Cunningham, and Stephen M. Richard



CORRELATION OF SELECTED MESOZOIC MAP UNITS

POST-THRUSTING GRANITOID ROCKS



MAP UNITS

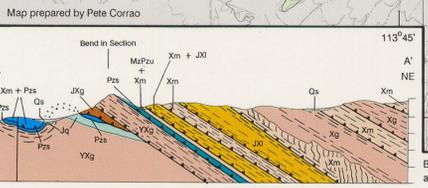
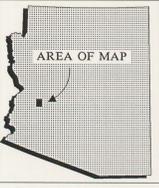
- QUATERNARY AND TERTIARY ROCKS**
 - Os Surficial deposits (Quaternary)
 - Tp Mafic intrusive rocks (middle Tertiary)
 - Tr Felsic intrusive rocks (middle Tertiary)
- LATE CRETACEOUS PLUTONIC ROCKS**
 - Kg Granite Wash Granodiorite (Late Cretaceous)
 - Kgb Granite Wash Granodiorite, dioritic border phase
 - Kt Tank Pass Granite (Late Cretaceous)
 - Ksa Tank Pass Granite; alaskite, aplite, and pegmatite
- MCCOY MOUNTAINS FORMATION** (Cretaceous and Late Jurassic?)
 - Kdm Undifferentiated
 - Kmnc Sandstone and conglomerate
 - Klmm Mudstone member
 - Klms Lithic sandstone
 - Klmp Polymict conglomerate
 - Klmy Basaltic, andesitic, and dioritic rocks
 - Klmi Yellowbird mine sequence
 - Klml Lower sandstone
- JURASSIC AND TRIASSIC ROCKS**
 - Jk Quartzite, quartz-kyanite rocks, and mica schist
 - Jc Quartz-mica schist, hydrothermal and sedimentary quartzite, and quartz-andalusite rocks
 - Jv Conglomerate, volcanic breccia, and siltstone
 - Jvp Volcanic and volcanoclastic rocks; locally includes plutonic rocks
 - Jvs Volcanic-associated sedimentary rocks
 - Jvp Volcanic porphyry
 - Ja Alaskite
 - Jg Granite
 - Jsw Granitoid and volcanic rocks, undifferentiated
 - Jf Fine-grained sedimentary rocks
 - Jq Quartzite and quartzose clastic rocks; correlative with the Vampire Formation
 - Jv Vampire and Buckskin Formations, undifferentiated
 - Jt Buckskin Formation (Triassic)
 - Jm Mesozoic rocks, undifferentiated; correlative with McCoy Mountains or Buckskin Formations
- JURASSIC, CAMBRIAN, OR PROTEROZOIC ROCKS**
 - Jc Crystalline rocks (Jurassic or Proterozoic)
 - Jg Granite (Jurassic or Proterozoic)
 - Jv Leucocratic granite (Jurassic or Proterozoic)
 - Jm Mafic rocks; includes mafic schist, amphibolite, and quartz diorite (Jurassic or Proterozoic)
- MESOZOIC AND PALEOZOIC ROCKS**
 - Mf Mesozoic and Paleozoic rocks, undifferentiated
- PALEOZOIC ROCKS**
 - Pp Paleozoic sedimentary rocks, undifferentiated
 - Pc Kaibab Formation (Permian)
 - Po Coconino Sandstone (Permian)
 - Pps Supai Group (Permian and Pennsylvanian)
 - Mr Redwall Limestone (Mississippian)
 - Ml Redwall Limestone and Martin Formation, undifferentiated (Mississippian and Devonian)
 - Md Martin Formation (Devonian)
 - Ms Bolsa Quartzite and Abrigo Formation (Cambrian)
- PROTEROZOIC ROCKS**
 - Yg Granite
 - Xg Metamorphosed quartz diorite and granodiorite
 - Xm Metamorphosed quartz

SYMBOLS

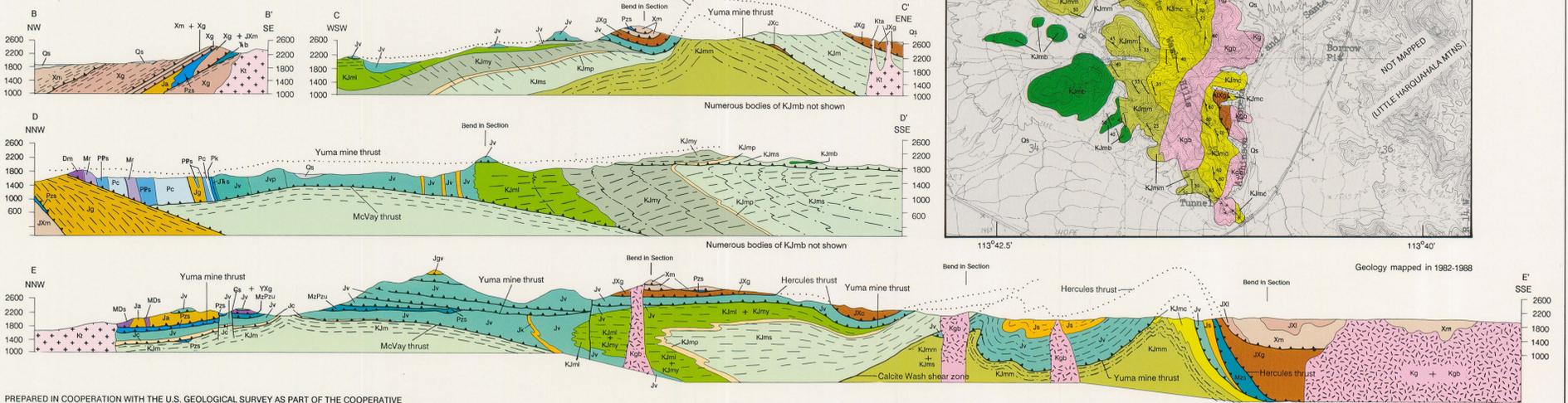
- Contact; dashed where approximately located
- Fault; dashed where approximately located, dotted where covered
- Thrust fault; dashed where approximately located, dotted where covered
- Marker bed
- Conglomerate bed
- Amphibolite layer
- Silicic dike
- Intermediate dike
- Mafic dike
- Quartz vein
- Bedding
- Vertical bedding
- Overturned bedding
- Crystalloblastic or gneissic foliation
- Vertical crystalloblastic foliation
- Undifferentiated cleavage or foliation, with lineation
- Undifferentiated cleavage subparallel to bedding
- S₁ cleavage, with lineation and sense of shear
- S_{2a} spaced cleavage or crenulation cleavage, with crenulation lineation
- S_{2a} vertical spaced cleavage
- S_{2b} cleavage in small shear zones
- S_{2m} mylonitic foliation or schistosity, with lineation and sense of shear
- S_{2m} vertical mylonitic foliation, with lineation
- S₃ cleavage
- S₃ cleavage
- Minor fold, showing down-plunge fold profile
- Antiform
- Synform
- K Kyanite locality
- B Bend in section
- Dike of unknown composition

SCALE 1:24,000
 0 5 1 MILES
 0 5 1 KILOMETERS

CONTOUR INTERVAL 40 FEET (east of 113° 45')
 AND 20 FEET (west of 113° 45')



Base map from U.S. Geological Survey Bouse Hills NE and SE, Harcurar NW and SW, and Little Harquahala Mts. NW preliminary 7 1/2' quadrangles.



PREPARED IN COOPERATION WITH THE U.S. GEOLOGICAL SURVEY AS PART OF THE COOPERATIVE GEOLOGIC MAPPING (COGEOGMAP) PROGRAM