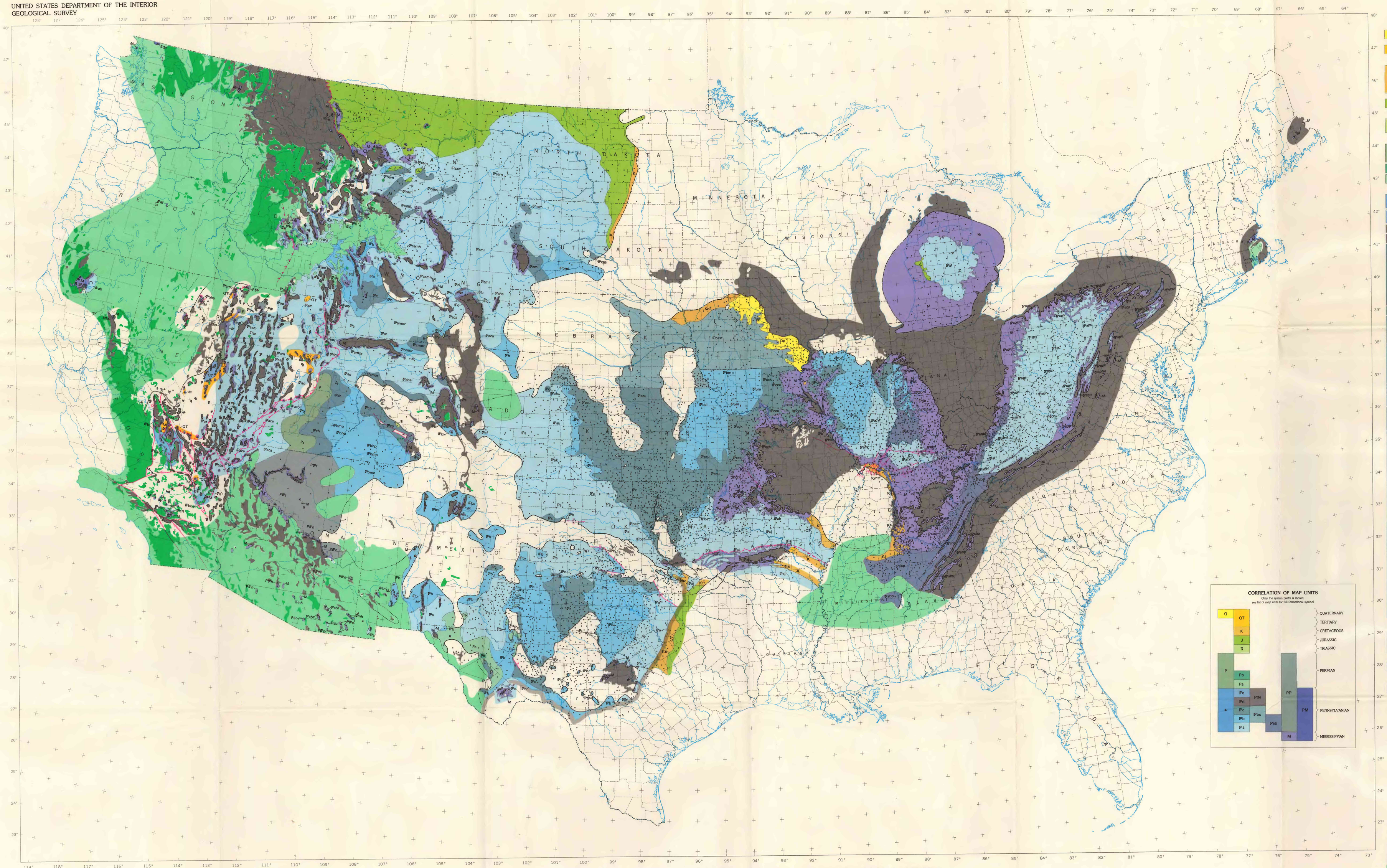

Base from U.S. Geological Survey

MAP SHOWING GEOLOGIC UNITS DIRECTLY ABOVE MISSISSIPPIAN SYSTEM

SCALE 1:5 000 000

100 0 100 200 300 400 500 MILES

100 0 100 200 300 400 500 KILOMETERS

LIST OF MAP UNITS

All stratigraphic names except those that are italicized are in current usage by the U.S. Geological Survey.

Qp — QUATERNARY ROCKS
- Pleistocene rocks

QT — QUATERNARY AND TERTIARY ROCKS

K — CRETACEOUS ROCKS
- Undivided
- **Kd** — Dakota Sandstone
- **Kmt** — McNairy and Tuscaloosa Formations
- **Kt** — Tuscaloosa Formation
- **Ktr** — Trinity Group

J — JURASSIC ROCKS

Ꞧ — TRIASSIC ROCKS
- Undivided
- **Ꞧc** — Chugwater Formation

P — PERMIAN ROCKS
- Undivided
- **Pcr** — Carbon Ridge Formation
- **Ps** — Supai Formation
- Interval B
- **Pb** — Interval B undivided
- Interval A
- **Pa** — Interval A undivided

P̄ — PENNSYLVANIAN ROCKS
- Undivided
- **P̄nh** — Naco Group, Horquilla Limestone
- Interval E
- **P̄e** — Undivided
- **P̄ab** — Brock Canyon Formation
- Intervals D and E
- **P̄de** — Strawhorn Formation, lower part
- Interval D
- **P̄d** — Interval D, undivided
- Interval C
- **P̄c** — Undivided
- **P̄cam** — Amsden Group (part)
- Cherokee Group
- **P̄cc** — *Cabaniss Subgroup*
- **P̄ck** — *Krebs Subgroup*
- **P̄cu** — Upper part
- **P̄ch** — Hermosa Formation
- **P̄cmi** — Minnelusa Formation (part)
- **P̄cm** — Minturn Formation
- **P̄cmor** — Morgan Formation (part)
- **P̄cp** — Paradox Formation
- **P̄cs** — Spoon Formation
- Intervals B and C
- **P̄bcc** — Cherokee Group
- Interval B
- **P̄b** — Undivided
- **P̄ba** — Abbott Formation
- **P̄bam** — Amsden Group or Formation (part)
- **P̄bat** — Atoka Formation
- **P̄bba** — Battle Formation
- **P̄bbs** — Bird Spring Formation (part)
- **P̄bb** — Brazil Formation
- **P̄bc** — Casper Formation (part)
- **P̄bcl** — Cherokee Group, lower part
- **P̄be** — Ely Limestone (part)
- **P̄bhp** — *Hermosa Group, Pinkerton Trail Formation*
- **P̄bk** — Kerber Formation (part)
- **P̄bkc** — Keeler Canyon Formation (part)
- **P̄bm** — *McLeath Formation*
- **P̄bmi** — Minnelusa Formation (part)
- **P̄bmo** — Molas Formation (part)
- **P̄bmor** — Morgan Formation (part)
- **P̄bs** — Sandia Formation
- Intervals A and B
- **P̄ybb** — Breathitt and Lee Formations
- **P̄abm** — Mansfield Formation
- **P̄abp** — Pottsville Formation
- **P̄abps** — Schuylkill and Sharp Mountain Members
- Interval A
- **P̄a** — Undivided
- **P̄aam** — Amsden Group or Formation (part)
- **P̄aamh** — Amsden Formation, Horseshoe Shale Member
- **P̄ab** — Baird Formation (part)
- **P̄abe** — Belden Shale (part)
- **P̄abl** — Black Prince Limestone
- **P̄abs** — Bird Spring Formation (part)
- **P̄ac** — Casper Formation (part)
- **P̄aca** — Calvilla Limestone (part)
- **P̄acy** — Caseyville Formation or Group
- **P̄ae** — Ely Limestone or Group (part)
- **P̄aem** — *Ely Group*, Moleen Formation
- **P̄af** — Fountain Formation (part)
- **P̄afl** — Furnace Limestone, upper part
- **P̄ah** — Hale Formation
- **P̄aha** — Hartville Formation (part)
- **P̄aj** — Jackfork Sandstone
- **P̄ak** — *Kearny Formation*
- **P̄al** — Lee Formation
- **P̄am** — Manning Canyon Shale, upper part
- **P̄ami** — Minnelusa Formation (part)
- **P̄amor** — Morgan Formation (part)
- **P̄ams** — *Maxton and Salt sands*
- **P̄amc** — Mountain City Formation
- **P̄ao** — Oquirrh Formation (part)
- Pottsville Formation
- **P̄apc** — Connoquenessing Sandstone Member
- **P̄apo** — Olean Conglomerate Member
- **P̄aps** — Sharon Member
- **P̄apt** — Tumbling Run Member
- Pottsville Group
- **P̄apn** — New River Formation
- **P̄app** — Pocahontas Formation
- **P̄ar** — Round Valley Limestone
- **P̄as** — Saginaw Formation, lower part
- **P̄at** — Tippipah Limestone (part)
- **P̄ato** — Topache Limestone (part)
- **P̄aw** — Wells Formation (part)

PP — PERMIAN AND PENNSYLVANIAN ROCKS
- Undivided
- **PP̄n** — Naco Group or Formation
- **PP̄r** — Reservation Hill Formation
- **PP̄s** — Supai Formation

P̄M — PENNSYLVANIAN AND MISSISSIPPIAN ROCKS—Areas too small to be delineated

M — MISSISSIPPIAN OUTCROP

BOUNDARY LINE OF MISSISSIPPIAN SYSTEM—Dashed where control is poor; dotted where hypothetical

CONTACT BETWEEN STRATIGRAPHIC UNITS

CONTROL POINTS
- Outcrop
- Well
- Composite section constructed from wells, outcrops, or both, less than 5 miles apart
- Generalized section constructed from scattered data in the surrounding area

FAULTS—Dashed where control is poor; queried where doubtful; dotted where projected into areas where mapped unit has not been penetrated or identified and may or may not be present

Post-Mississippian faults—Only those which are needed to explain distribution of mapped units are shown
- Thrust fault—Sawteeth on upper plate
- Lateral fault—Arrows show relative movement
- Normal fault—U, upthrown side; D, downthrown side

Mississippian faults—Faults which moved during deposition of the Mississippian System
- Thrust fault—Sawteeth on upper plate
- Lateral fault—Arrows show relative movement
- Normal fault—U, upthrown side; D, downthrown side

PATTERNED AREAS
- Area in vicinity of Mississippian rocks where older rocks are exposed
- Area in vicinity of Mississippian rocks in which the Mississippian, if ever present, has been masked or destroyed by younger igneous intrusions, by metamorphism, or complex structural deformation
- Area in vicinity of Mississippian rocks in which Mississippian rocks have not been penetrated by drill and may or may not be present
- Ouachita tectonic belt—Northern edge of shaded band indicates edge of tectonic belt; southern limits undetermined

CORRELATION OF MAP UNITS

Only the system prefix is shown; see list of map units for full formational symbol