BEDROCK GEOLOGIC MAP OF IOWA

1:500,000

Iowa Geological and Water Survey
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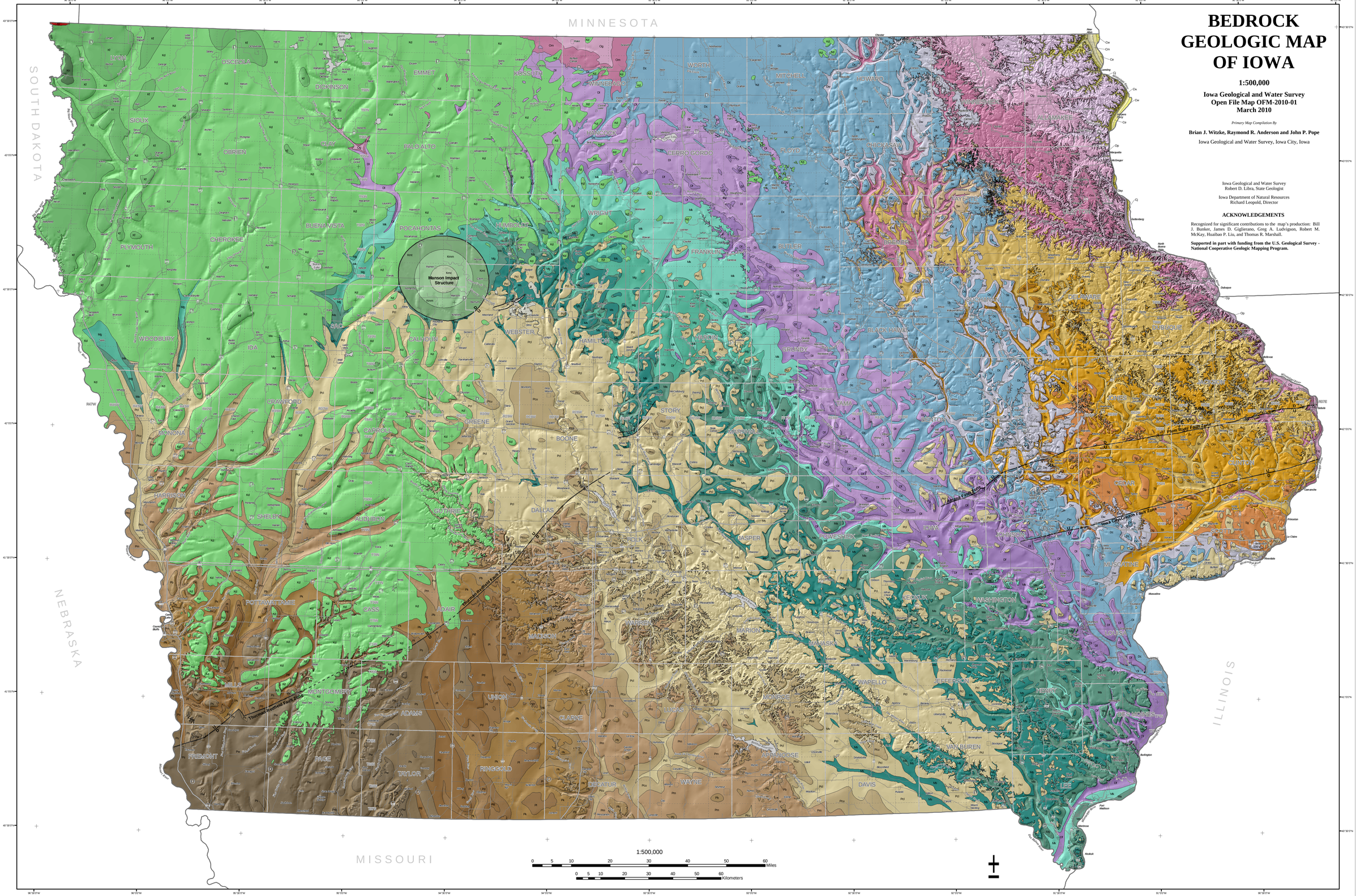

EXPLANATION

CRETACEOUS

- Kmt — Manson Impact Structure, Terrace Terrane (breccia)
- Kmm — Manson Impact Structure, Crater Moat (shaly breccia)
- Kmc — Manson Impact Structure, Central Peak (breccia; basement-rock megabreccia)
- Kn — Niobrara Formation (shale)
- Kf — Fort Benton Group (shale, chalk)
- Kd — Dakota and Windrow Formations (sandstone, shale)

JURASSIC

- Jf — Fort Dodge Formation (gypsum, redbeds)

PENNSYLVANIAN

- Pw — Wabaunsee Group (shale, limestone)
- Ps — Shawnee Group (limestone, shale)
- Pd — Douglas Group (shale, limestone, sandstone)
- Pl — Lansing Group (limestone, shale)
- Pk — Kansas City Group (limestone, shale)
- Pb — Bronson Group (limestone, shale)
- Pm — Marmaton Group (shale, limestone)
- Pcu — Upper Cherokee Group (shale, sandstone, limestone)
- Pcl — Lower Cherokee Group and Raccoon Creek Group (shale, sandstone)

MISSISSIPPIAN

- Ms — "St. Louis" and Pella Formations (dolomite, limestone, sandstone)
- Ma — Augusta Group (dolomite, limestone, chert)
- Mg — Gilmore City Formation (limestone, dolomite)
- Mk — Kinderhookian Formations (dolomite, limestone, siltstone)

DEVONIAN

- Df — Famennian Formations (shale, siltstone, dolomite)
- Dl — Lime Creek and Sweetland Creek Formations (shale, limestone)
- Dc — Cedar Valley Group (dolomite, limestone)
- Dw — Wapsipinicon Group (dolomite, limestone, anhydrite)

SILURIAN

- Sg — Gower Formation (dolomite)
- Ss — Scotch Grove Formation (dolomite, chert)
- Sh — Hopkinton, Blanding, Tete des Morts, Mosalem Formations (dolomite, chert)
- Sl — LaPorte City Formation (limestone, chert)
- Sw — Waucoma Formation (limestone)

ORDOVICIAN

- Om — Maquoketa Formation (shale, dolomite)
- Og — Galena Group and Platteville Formation (dolomite, shale, chert)
- Op — Prairie du Chien Group and St. Peter Sandstone (dolomite, sandstone)

CAMBRIAN

- Cj — Jordan Sandstone, St. Lawrence and Lone Rock Formations (sandstone, dolomite)
- Cw — Wonewoc Formation (sandstone)
- Ce — Eau Claire Formation (sandstone, shale)
- Cm — Mt. Simon Sandstone (sandstone)

PRECAMBRIAN

- Xs — Sioux Quartzite (quartzite)

U / D — fault (U - upside, D - downside)

fault buried by Kd

Transparent shades of gray show the bedrock surface as it would be illuminated by an artificial light source coming from the NW direction.