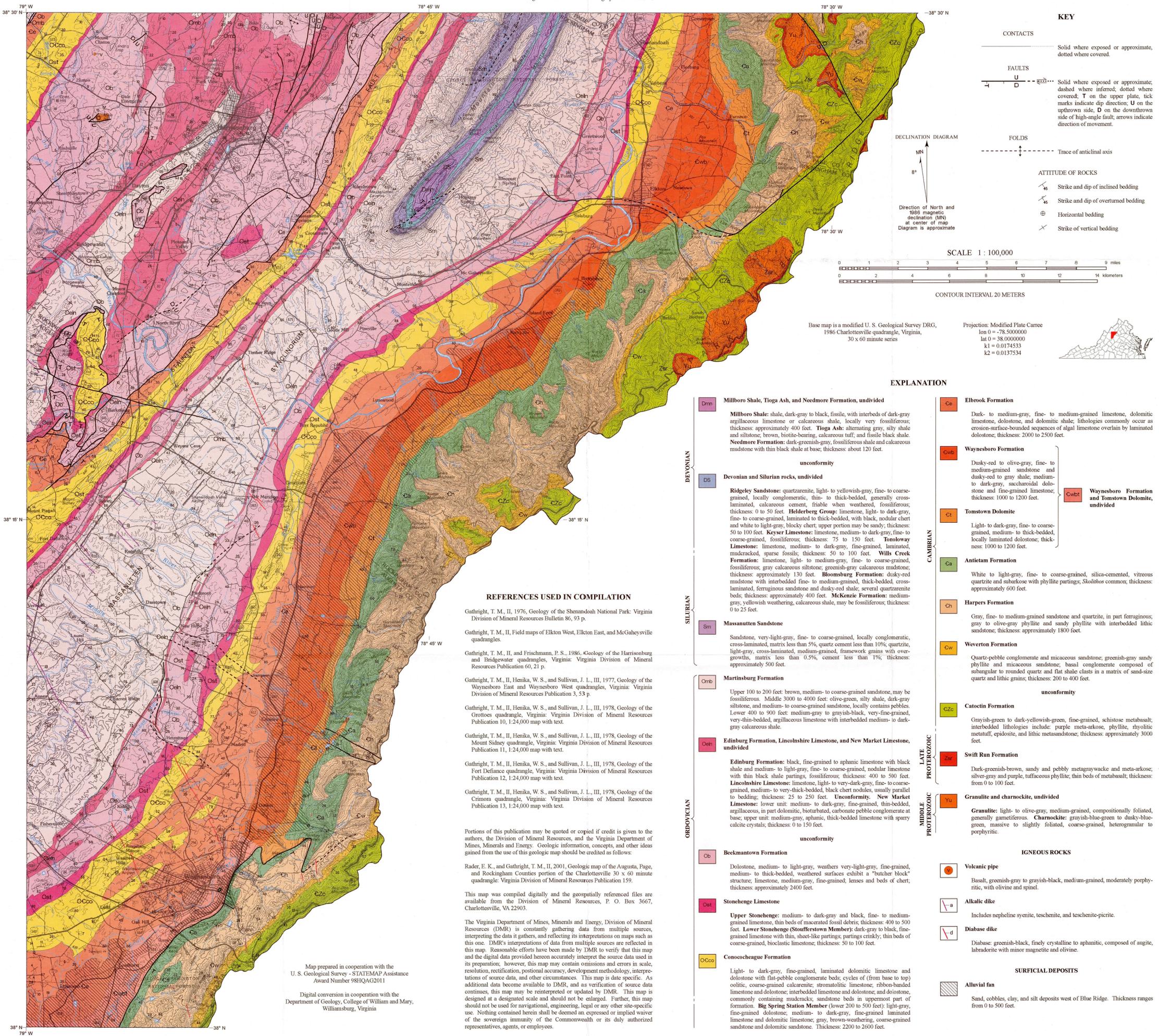


GEOLOGIC MAP OF THE AUGUSTA, PAGE, AND ROCKINGHAM COUNTIES PORTION OF THE CHARLOTTESVILLE 30 X 60 MINUTE QUADRANGLE

Geology compiled by Eugene K. Rader and Thomas M. Gathright II

2001

Digital conversion and editing by Kevin B. Jones



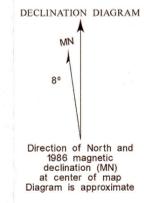
KEY

CONTACTS
— Solid where exposed or approximate, dotted where covered.

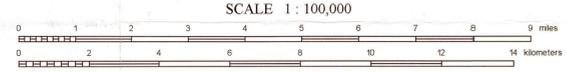
FAULTS
— Solid where exposed or approximate, dashed where inferred, dotted where covered; T on the upper plate, tick marks indicate dip direction; U on the upthrown side, D on the downthrown side of high-angle fault; arrows indicate direction of movement.

FOLDS
--- Trace of anticlinal axis

ATTITUDE OF ROCKS
/ 46 Strike and dip of inclined bedding
/ 46 Strike and dip of overturned bedding
— Horizontal bedding
X Strike of vertical bedding



SCALE 1 : 100,000



CONTOUR INTERVAL 20 METERS

Base map is a modified U. S. Geological Survey DRG, 1986 Charlottesville quadrangle, Virginia, 30 x 60 minute series

Projection: Modified Plate Carree
lon 0 = -78.5000000
lat 0 = 38.0000000
k1 = 0.0174533
k2 = 0.0137534



EXPLANATION

- | | | | |
|---|---|---|---|
| <p>DEVONIAN</p> <p>Dmn Millboro Shale, Tioga Ash, and Needmore Formation, undivided</p> <p>DS Devonian and Silurian rocks, undivided</p> | <p>DEVONIAN</p> <p>DS Devonian and Silurian rocks, undivided</p> <p>unconformity</p> <p>DEVONIAN</p> <p>DS Devonian and Silurian rocks, undivided</p> | <p>DEVONIAN</p> <p>DS Devonian and Silurian rocks, undivided</p> <p>unconformity</p> <p>DEVONIAN</p> <p>DS Devonian and Silurian rocks, undivided</p> | <p>DEVONIAN</p> <p>DS Devonian and Silurian rocks, undivided</p> <p>unconformity</p> <p>DEVONIAN</p> <p>DS Devonian and Silurian rocks, undivided</p> |
| <p>SILURIAN</p> <p>Sm Massanutten Sandstone</p> <p>Ornb Martinsburg Formation</p> <p>Oen Edinburg Formation, Lincolnshire Limestone, and New Market Limestone, undivided</p> <p>unconformity</p> <p>ORDOVICIAN</p> <p>Ob Beekmantown Formation</p> <p>Ocb Stonehenge Limestone</p> <p>Oco Conococheague Formation</p> | <p>SILURIAN</p> <p>Sm Massanutten Sandstone</p> <p>Ornb Martinsburg Formation</p> <p>Oen Edinburg Formation, Lincolnshire Limestone, and New Market Limestone, undivided</p> <p>unconformity</p> <p>ORDOVICIAN</p> <p>Ob Beekmantown Formation</p> <p>Ocb Stonehenge Limestone</p> <p>Oco Conococheague Formation</p> | <p>SILURIAN</p> <p>Sm Massanutten Sandstone</p> <p>Ornb Martinsburg Formation</p> <p>Oen Edinburg Formation, Lincolnshire Limestone, and New Market Limestone, undivided</p> <p>unconformity</p> <p>ORDOVICIAN</p> <p>Ob Beekmantown Formation</p> <p>Ocb Stonehenge Limestone</p> <p>Oco Conococheague Formation</p> | <p>SILURIAN</p> <p>Sm Massanutten Sandstone</p> <p>Ornb Martinsburg Formation</p> <p>Oen Edinburg Formation, Lincolnshire Limestone, and New Market Limestone, undivided</p> <p>unconformity</p> <p>ORDOVICIAN</p> <p>Ob Beekmantown Formation</p> <p>Ocb Stonehenge Limestone</p> <p>Oco Conococheague Formation</p> |
| <p>CAMBRIAN</p> <p>Cw Waynesboro Formation</p> <p>Cwb Waynesboro Formation and Tomstown Dolomite, undivided</p> <p>Ct Tomstown Dolomite</p> <p>Ca Antietam Formation</p> <p>Ch Harpers Formation</p> <p>Cw Weverton Formation</p> <p>unconformity</p> <p>Czc Catoclin Formation</p> <p>Zs Swift Run Formation</p> <p>Yu Granite and charnockite, undivided</p> | <p>CAMBRIAN</p> <p>Cw Waynesboro Formation</p> <p>Cwb Waynesboro Formation and Tomstown Dolomite, undivided</p> <p>Ct Tomstown Dolomite</p> <p>Ca Antietam Formation</p> <p>Ch Harpers Formation</p> <p>Cw Weverton Formation</p> <p>unconformity</p> <p>Czc Catoclin Formation</p> <p>Zs Swift Run Formation</p> <p>Yu Granite and charnockite, undivided</p> | <p>CAMBRIAN</p> <p>Cw Waynesboro Formation</p> <p>Cwb Waynesboro Formation and Tomstown Dolomite, undivided</p> <p>Ct Tomstown Dolomite</p> <p>Ca Antietam Formation</p> <p>Ch Harpers Formation</p> <p>Cw Weverton Formation</p> <p>unconformity</p> <p>Czc Catoclin Formation</p> <p>Zs Swift Run Formation</p> <p>Yu Granite and charnockite, undivided</p> | <p>CAMBRIAN</p> <p>Cw Waynesboro Formation</p> <p>Cwb Waynesboro Formation and Tomstown Dolomite, undivided</p> <p>Ct Tomstown Dolomite</p> <p>Ca Antietam Formation</p> <p>Ch Harpers Formation</p> <p>Cw Weverton Formation</p> <p>unconformity</p> <p>Czc Catoclin Formation</p> <p>Zs Swift Run Formation</p> <p>Yu Granite and charnockite, undivided</p> |
| <p>LATE PROTEROZOIC</p> <p>Zs Swift Run Formation</p> <p>Yu Granite and charnockite, undivided</p> | <p>LATE PROTEROZOIC</p> <p>Zs Swift Run Formation</p> <p>Yu Granite and charnockite, undivided</p> | <p>LATE PROTEROZOIC</p> <p>Zs Swift Run Formation</p> <p>Yu Granite and charnockite, undivided</p> | <p>LATE PROTEROZOIC</p> <p>Zs Swift Run Formation</p> <p>Yu Granite and charnockite, undivided</p> |
| <p>MIDDLE PROTEROZOIC</p> <p>IGNEOUS ROCKS</p> <p>Volcanic pipe</p> <p>Alkalic dike</p> <p>Diabase dike</p> <p>SURFICIAL DEPOSITS</p> <p>Alluvial fan</p> | <p>MIDDLE PROTEROZOIC</p> <p>IGNEOUS ROCKS</p> <p>Volcanic pipe</p> <p>Alkalic dike</p> <p>Diabase dike</p> <p>SURFICIAL DEPOSITS</p> <p>Alluvial fan</p> | <p>MIDDLE PROTEROZOIC</p> <p>IGNEOUS ROCKS</p> <p>Volcanic pipe</p> <p>Alkalic dike</p> <p>Diabase dike</p> <p>SURFICIAL DEPOSITS</p> <p>Alluvial fan</p> | <p>MIDDLE PROTEROZOIC</p> <p>IGNEOUS ROCKS</p> <p>Volcanic pipe</p> <p>Alkalic dike</p> <p>Diabase dike</p> <p>SURFICIAL DEPOSITS</p> <p>Alluvial fan</p> |

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Rader, E. K., and Gathright, T. M., II, 2001, Geologic map of the Augusta, Page, and Rockingham Counties portion of the Charlottesville 30 x 60 minute quadrangle: Virginia Division of Mineral Resources Publication 159.

This map was compiled digitally and the geospatially referenced files are available from the Division of Mineral Resources, P. O. Box 3667, Charlottesville, VA 22903.

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