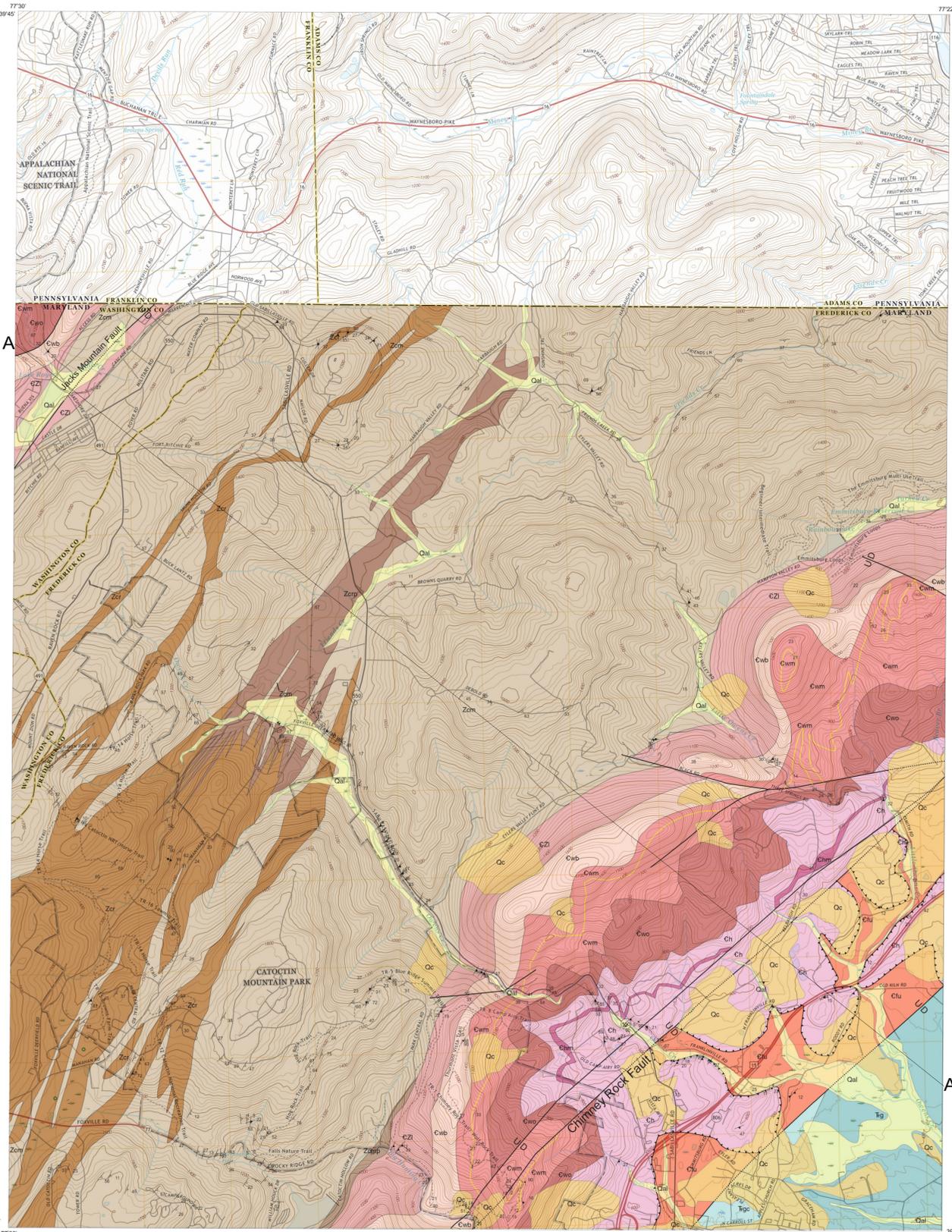


DESCRIPTION OF MAP UNITS

- Alluvium
Poorly sorted, unconsolidated, tan, reddish-brown to dark-gray mud, silt, sand, and pebbles.
Colluvium
Unconsolidated and unsorted cobbles and boulders that accumulate on steep slopes...
Gettysburg Formation
Cyclically interbedded red-gray, laminated, very fine-grained, argillaceous sandstone...
Gettysburg Formation Conglomerate
Interbedded, red-brown, thin-bedded, fine-grained, argillaceous sandstone...
Frederick Formation (undifferentiated)
Medium- to dark-gray, laminated to thin-bedded, pyritic, argillaceous limestone...
Harpers Formation
Predominately tan-weathering, dark grayish green to dark gray, sheared phyllitic shale...
Mont Alto Member
Within the lower levels of the Harpers Formation there is a mappable quartzite...
Weverton Formation
Light- to medium-gray quartzite, conglomerate, medium- to dark-gray metagraywacke...
Owens Creek Member
Medium- to dark-gray, very coarse grained to conglomeratic, cross-bedded...
Maryland Heights Member
Interbedded, thin (less than 30 feet), white quartzite and medium-gray metagraywacke...
Buzzard Knob Member
The lowest member of the Weverton Formation consists of two ledge-forming quartzites...
Loudoun Formation
Interbedded, medium-gray, medium- to thin-bedded, tuffaceous sandstone...
Catoctin Formation
The Catoctin Formation is a suite of volcanic rocks that consists principally of metabasalt...
Metabasalt
Medium to dark greenish gray, medium-grained, massive, metabasalt...
Porphyritic Metabasalt
Light greenish gray to greenish-gray metabasalt with light greenish gray to white euhedral feldspar...
Metarhyolite
Medium-gray to medium dark bluish gray, dense, metarhyolite...
Interbedded Metabasalt, Metarhyolite and Tuffaceous Phyllite
Interlayered greenish-gray, granular phyllite, pale purplish-gray, to very light gray...



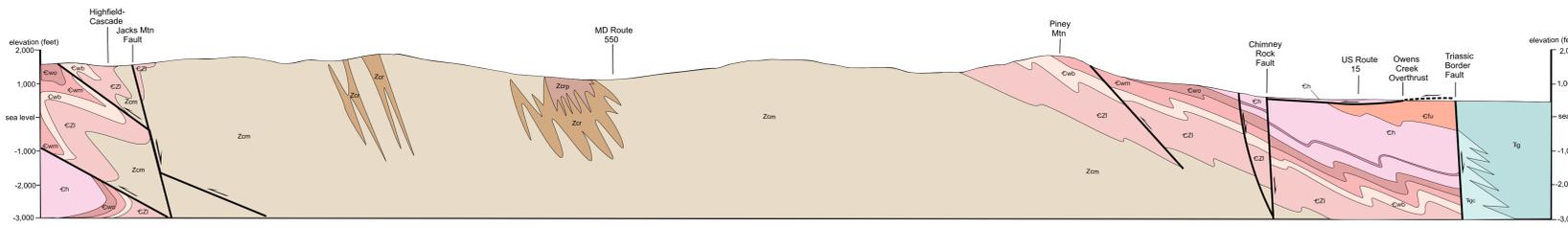
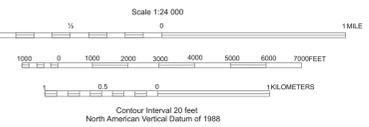
Geologic Map of the Maryland Portion of the Blue Ridge Summit Quadrangle, Frederick County, Maryland

U.S. Geological Survey (USGS) US Topo 7.5-minute Series
Blue Ridge Summit quadrangle, 2019.
Maryland State Plane Coordinate System 1983
Projection: Lambert Conformal Conic, 1980 geodetic reference system
(Horizontal Datum: North American Datum 1983)

Geographic coordinates (latitude-longitude). Shown near corners
Reported magnetic north declination (center of Blue Ridge Summit quadrangle): 10.5°W
To determine current magnetic declination see: (http://www.ngdc.noaa.gov/geomag/declination.shtml)

By
David K. Brezinski
2021

Table with 8 columns and 2 rows showing adjoining 7.5-minute quadrangles. The central quadrangle (2) is shaded. Columns 1-3 are Wayneboro, Iron Spring, and Fairfield. Columns 4-6 are Smithsburg, Emmitsburg, and Myersville. Columns 7-8 are Catoctin Furnace and Woodsboro.



Explanation of Map Symbols
Contacts: Geologic contacts, definite and approximate. Dotted where concealed.
Planar Features: inclined bedding (strike and degree of dip shown), horizontal bedding, vertical bedding, flow banding and volcanic layering, foliation/cleavage (strike and degree of dip shown), vertical foliation/cleavage (strike shown), inclined joint (strike and degree of dip shown), vertical joint (strike shown).
Base Map Symbols: Primary route, class 1 (divided lanes); Primary route, class 1 (undivided); Secondary route, class 2; Light duty road or street, class 3.
Topography: Topographic index contour (100-ft interval); Topographic intermediate contour (20-ft interval).
Hydrography: Stream; Spring; Water body (eg. lakes, ponds, rivers).



STATE OF MARYLAND
Lawrence J. Hogan
Governor

DEPARTMENT OF NATURAL RESOURCES
Jeannie Haddaway-Riccio
Secretary

Boyd K. Rutherford
Lieutenant Governor

MARYLAND GEOLOGICAL SURVEY
Richard Ort
Director

Use Constraint: The Maryland Geological Survey makes no warranty, express or implied, as to the use or appropriateness of the data and there are no warranties of merchantability or fitness for particular purpose or use.
Acknowledgments: This map partially funded by the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under USGS award number G19AC00266.
Geologic field mapping conducted in 2019-2021.

The facilities and services of the Maryland Department of Natural Resources are available to all without regard to race, color, religion, sex, sexual orientation, age national origin or physical and mental disability.
Version: BLUE_RIDG_SUMM2021.1
Released November 2021