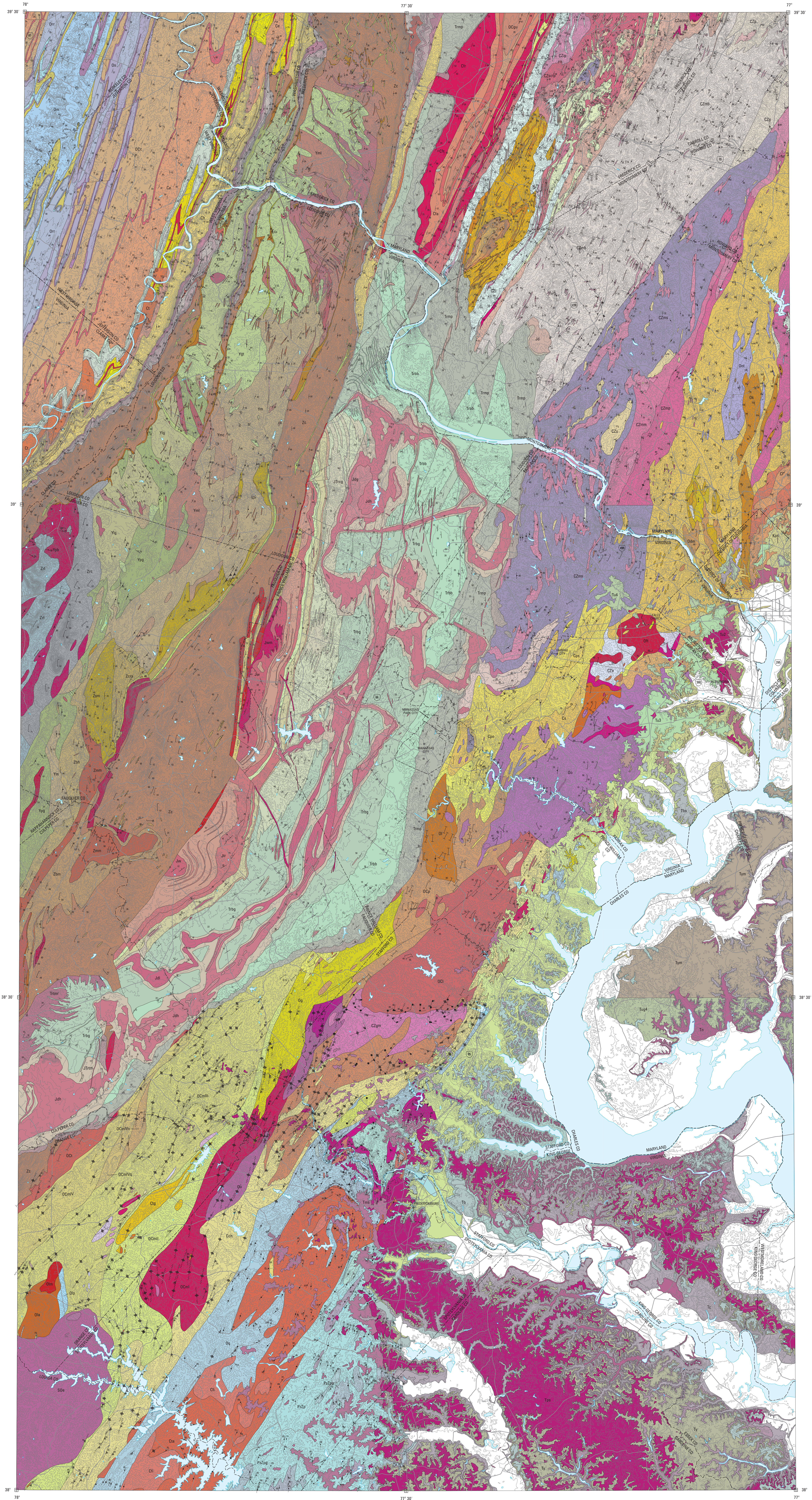


BEDROCK GEOLOGIC UNITS AND STRUCTURE MAP



BEDROCK MAP UNITS											
C2a	C2b	C2c	C2d	C2e	C2f	C2g	C2h	C2i	C2j	C2k	C2l
C2m	C2n	C2o	C2p	C2q	C2r	C2s	C2t	C2u	C2v	C2w	C2x
C2y	C2z	C2aa	C2ab	C2ac	C2ad	C2ae	C2af	C2ag	C2ah	C2ai	C2aj
C2ak	C2al	C2am	C2an	C2ao	C2ap	C2aq	C2ar	C2as	C2at	C2au	C2av
C2aw	C2ax	C2ay	C2az	C2ba	C2bb	C2bc	C2bd	C2be	C2bf	C2bg	C2bh
C2bi	C2bj	C2bk	C2bl	C2bm	C2bn	C2bo	C2bp	C2bq	C2br	C2bs	C2bt
C2bu	C2bv	C2bw	C2bx	C2by	C2bz	C2ca	C2cb	C2cc	C2cd	C2ce	C2cf
C2cg	C2ch	C2ci	C2cj	C2ck	C2cl	C2cm	C2cn	C2co	C2cp	C2cq	C2cr
C2cs	C2ct	C2cu	C2cv	C2cw	C2cx	C2cy	C2cz	C2da	C2db	C2dc	C2dd
C2de	C2df	C2dg	C2dh	C2di	C2dj	C2dk	C2dl	C2dm	C2dn	C2do	C2dp
C2dq	C2dr	C2ds	C2dt	C2du	C2dv	C2dw	C2dx	C2dy	C2dz	C2ea	C2eb
C2ec	C2ed	C2ee	C2ef	C2eg	C2eh	C2ei	C2ej	C2ek	C2el	C2em	C2en
C2eo	C2ep	C2eq	C2er	C2es	C2et	C2eu	C2ev	C2ew	C2ex	C2ey	C2ez
C2fa	C2fb	C2fc	C2fd	C2fe	C2ff	C2fg	C2fh	C2fi	C2fj	C2fk	C2fl
C2fm	C2fn	C2fo	C2fp	C2fq	C2fr	C2fs	C2ft	C2fu	C2fv	C2fw	C2fx
C2fy	C2fz	C2ga	C2gb	C2gc	C2gd	C2ge	C2gf	C2gg	C2gh	C2gi	C2gj
C2gk	C2gl	C2gm	C2gn	C2go	C2gp	C2gq	C2gr	C2gs	C2gt	C2gu	C2gv
C2gw	C2gx	C2gy	C2gz	C2ha	C2hb	C2hc	C2hd	C2he	C2hf	C2hg	C2hi
C2hj	C2hk	C2hl	C2hm	C2hn	C2ho	C2hp	C2hq	C2hr	C2hs	C2ht	C2hu
C2hv	C2hw	C2hx	C2hy	C2hz	C2ia	C2ib	C2ic	C2id	C2ie	C2if	C2ig
C2ih	C2ii	C2ij	C2ik	C2il	C2im	C2in	C2io	C2ip	C2iq	C2ir	C2is
C2it	C2iu	C2iv	C2iw	C2ix	C2iy	C2iz	C2ja	C2jb	C2jc	C2jd	C2je
C2jf	C2jg	C2jh	C2ji	C2jj	C2jk	C2jl	C2jm	C2jn	C2jo	C2jp	C2jq
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C2lc	C2ld	C2le	C2lf	C2lg	C2lh	C2li	C2lj	C2lk	C2ll	C2lm	C2ln
C2lo	C2lp	C2lq	C2lr	C2ls	C2lt	C2lu	C2lv	C2lw	C2lx	C2ly	C2lz
C2ma	C2mb	C2mc	C2md	C2me	C2mf	C2mg	C2mh	C2mi	C2mj	C2mk	C2ml
C2mn	C2mo	C2mp	C2mq	C2mr	C2ms	C2mt	C2mu	C2mv	C2mw	C2mx	C2my
C2mz	C2na	C2nb	C2nc	C2nd	C2ne	C2nf	C2ng	C2nh	C2ni	C2nj	C2nk
C2nl	C2nm	C2nn	C2no	C2np	C2nq	C2nr	C2ns	C2nt	C2nu	C2nv	C2nw
C2nx	C2ny	C2nz	C2oa	C2ob	C2oc	C2od	C2oe	C2of	C2og	C2oh	C2oi
C2oj	C2ok	C2ol	C2om	C2on	C2oo	C2op	C2oq	C2or	C2os	C2ot	C2ou
C2ov	C2ow	C2ox	C2oy	C2oz	C2pa	C2pb	C2pc	C2pd	C2pe	C2pf	C2pg
C2ph	C2pi	C2pj	C2pk	C2pl	C2pm	C2pn	C2po	C2pp	C2pq	C2pr	C2ps
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C2qr	C2qs	C2qt	C2qu	C2qv	C2qw	C2qx	C2qy	C2qz	C2ra	C2rb	C2rc
C2rd	C2re	C2rf	C2rg	C2rh	C2ri	C2rj	C2rk	C2rl	C2rm	C2rn	C2ro
C2rp	C2rq	C2rr	C2rs	C2rt	C2ru	C2rv	C2rw	C2rx	C2ry	C2rz	C2sa
C2sb	C2sc	C2sd	C2se	C2sf	C2sg	C2sh	C2si	C2sj	C2sk	C2sl	C2sm
C2sn	C2so	C2sp	C2sq	C2sr	C2ss	C2st	C2su	C2sv	C2sw	C2sx	C2sy
C2sz	C2ta	C2tb	C2tc	C2td	C2te	C2tf	C2tg	C2th	C2ti	C2tj	C2tk
C2tl	C2tm	C2tn	C2to	C2tp	C2tq	C2tr	C2ts	C2tt	C2tu	C2tv	C2tw
C2tx	C2ty	C2tz	C2ua	C2ub	C2uc	C2ud	C2ue	C2uf	C2ug	C2uh	C2ui
C2uj	C2uk	C2ul	C2um	C2un	C2uo	C2up	C2uq	C2ur	C2us	C2ut	C2uu
C2uv	C2uv	C2uv	C2uv	C2uv	C2uv	C2uv	C2uv	C2uv	C2uv	C2uv	C2uv

EXPLANATION OF MAP SYMBOLS

- Contact
- PLANAR FEATURES
- Strike and dip of bedding
- Strike and dip of compositional layering
- Strike and dip of first-generation Paleozoic cleavage and foliation
- Strike and dip of second-generation Paleozoic cleavage and foliation
- Strike and dip of mylonitic and phyllositic foliations
- Strike and dip of joint
- MINOR FOLDS
- OTHER FEATURES
- Sample site for U-Pb isotopic technique for age date
- Quarry or mine, active and inactive: Ag-silver, Au-gold, C-chromite, Cu-copper, D-diatase, F-fluorite, hematite, iron-ore, L-limonite, M-magnetite, Mn-manganese, Pb-lead, S-sulfur, Si-silica, Zn-zinc
- Greater than 200 pCi/g of soil gas radon (Gunderson and others, 1988)

The geologic data depicted on this plate are based on mapping done at scales ranging from 1:24,000 to 1:100,000. The primary data was then recomputed at a scale of 1:100,000 in three USGS 30 X 60 minute quadrangles: Frederick, Washington West, and Fredericksburg. The data collection and map compilation was conducted throughout the 1990s.

Political boundaries, roads, and topography from the USGS 1:100,000-scale Digital Line Graph data.

Contour interval 10 meters.

Hydrography from the Chesapeake Bay Program, <http://chesapeakebay.net/>

Digital map units in meters, zone 18, UTM System.

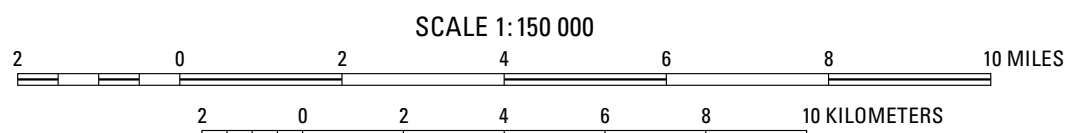
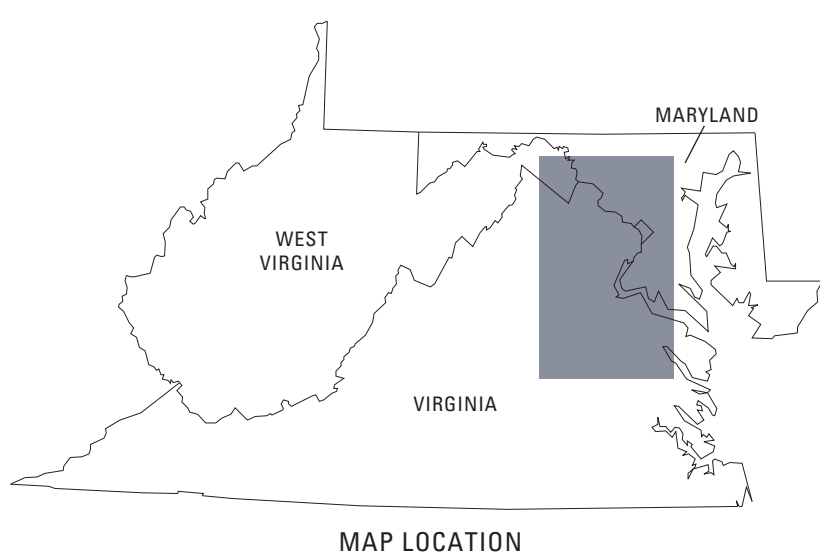
National Geodetic Horizontal Datum of 1983.

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards (or with the North American Stratigraphic Code). Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

This plate and the accompanying text and data files are available from: <http://pubs.usgs.gov/openfile/of01-227/>

This map was produced by request, directly from digital files, on an electronic plotter.

For sale by U.S. Geological Survey, Map Distribution
Box 25286, Federal Center, Denver, CO 80225
1-888-ASK-USGS



Geologic Map Database of the Washington, DC Area featuring data from three USGS 30 X 60 minute quadrangles: Frederick, Washington West, and Fredericksburg

by

Adam M. Davis, C. Scott Southworth,¹ James E. Reddy,¹ and J. Stephen Schindler¹
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