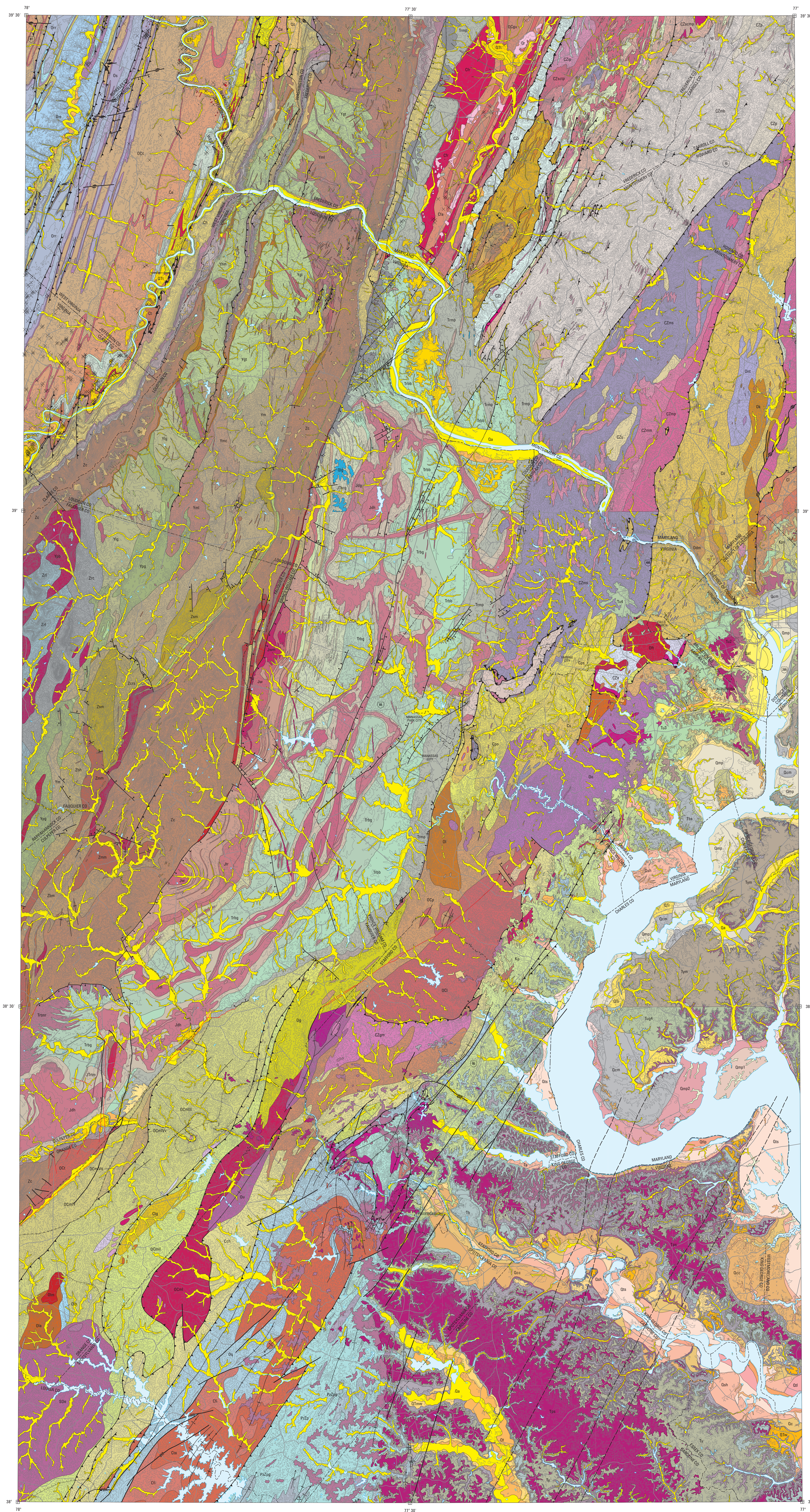


GEOLOGIC UNITS, FAULTS, AND FOLDS MAP



BEDROCK MAP UNITS

C2a	C2acg	Cm	JdJ	Olg	Osp	Ymc
C2b	C2achp	Gp	JdJ	O2m	SGC	Ym
C2c	C2csl	Gpo	Jhg	Oth	S0e	Yn
C2d	C2cem	Gps	Jhg	Oth	S0g	Yp
C2e	C2cmr	Cs	Jm	Og	S2	Yq
C2g	C2csc	Csajf	Jmc	Ogh	S2	Yyg
C2gm	C2acsp	Csajf	Jmc	Ogg	Tb	
C2h	C2ace	Csajf	Jmc	Ogg	Tbs	
C2i	C2achp	Cs	Jm	Og	Tc	Zw
C2j	C2em	Cs	Jtr	Ok	Te	Zbh
C2k	C2st	Cs	Jw	Ol	Tmc	Zbm
C2l	C2l	Osh	Gp	Om	Tms	Zd
C2m	C2l	Ost	Gp	Oim	Tm	Zd
C2n	C2um	Ost	Kpc	Oim	Tps	Zch
C2o	C2wm	Ost	Kcs	Oim	Ttbb	Zchb
C2p	Cs	Cu	Kc	Oim	Tmp	Zem
C2q	Cm	Ost	OCG	Oim	Tm	Zch
C2r	Csr	Ost	OCs	Ost	Tmp	Zw
C2b	Cobc	Ost	OCG	Omr	Tmr	Zcrr
C2m	Ccl	Ov	OCG	Oim	Tmra	Zem
C2n	Ccl	Ov	OCG	Oim	Tm	Zem
C2mb	Cch	Owac	OCml	Ost	Tm	Zmd
C2mbg	Ccl	Owak	OCml	Opm	Tu1	Zmd
C2mbg	Ces	Owar	OCmlt	Ost	Tu2	Zmm
C2mbg	Ccl	Ov	OCmV	Ost	Tu3	Zmm
C2mbg	Cs	Owm	OCmV	Ost	Tu4	Zmd
C2mbg	Cla	Owmq	OCmV	Ost	Tuq	Zmd
C2mp	Ch	Owe	Ost	Ot	Ty	Zd
C2mp	Ch	Ost	Ost	Ost	Ty	Zd
C2mt	Ch	Ost	OCs	Ost	Tyv	Zmd
C2o	Cts	Di	OCt	Ot	Ya	Zam
C2p	Ccl	Ost	OCt	Ost	Yg	Zag
C2p	Ccl	Ost	OCt	Ost	Yg	Zag
C2p	Chs	Jfrg	Ost	P2a	Yl	Zu
C2p	Ch	Jfrn	Ost	P2a	Yg	
C2a	Di	Jd	Ota	P2za	Yg	
C2b	Od	Jd	Ota	P2za	Ym	
C2c	Oio	Jd	Oem	P2zmm	Yg	
C2scg	Cip	Jdh	Ost	P2zmb	Ym	

SURFICIAL MAP UNITS

Qtc	Qsf	Qlg	Qlo	Qta	Tm
Qtmw	Qcc	Qm	Qr	Qd	Sinkhole (area > 1,200 square meters)
Qtr	Qc	Qmp	Qs	Qlp	Sinkhole (area ≤ 1,200 square meters)
Qtl	Qcf	Qmp1	Quh	Qtp	
Qtw	Qcm	Qmp2	Qsw	Qts	
Qa	Qdq	Qmsw	Qt	Qtu	

EXPLANATION OF MAP SYMBOLS

- CONTACTS**
- Thermal aureole - Ticks point to higher grade facies
- FAULTS**
- Fault zone
 - Mountain Run fault zone
 - Normal fault - Ball and bar on down-thrown block
 - Normal fault - Reactivated as thrust fault
 - Overturned thrust fault
 - Strike-slip fault - Arrows show relative movement
 - Thrust fault
 - Unclassified fault
 - Unclassified linear feature
- FOLDS**
- Anticline
 - Syncline
 - Antiform
 - Synform
 - Overturned antiform
 - Overturned synform

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 recompiled 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.

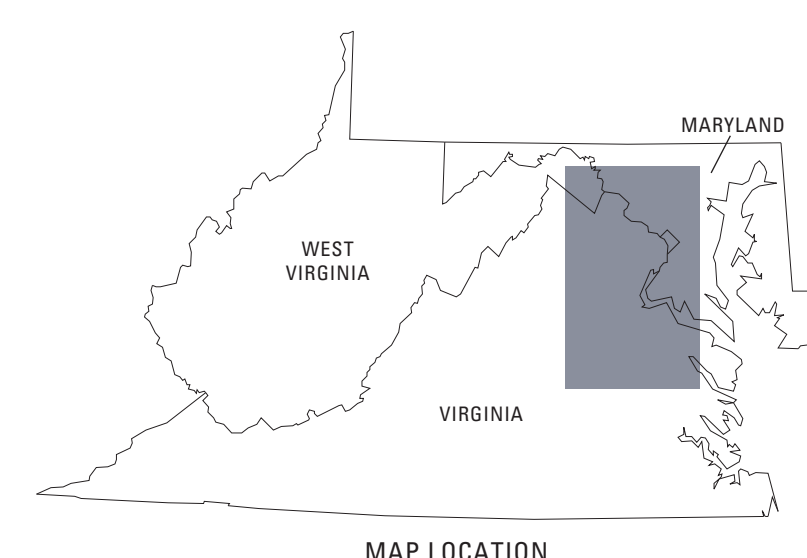
Political boundaries, roads, and topography from the USGS 1:100,000-scale Digital Line Graph data.
Contour Interval 10 meters.
Hydrography from the Chesapeake Bay Program, <http://chesapeakebay.net/>
Digital map units in meters, zone 18, UTM System.
National Geodetic Horizontal Datum of 1983.

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



MAP LOCATION

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

by
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2001

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