

Equal-Area Schmidt Net Projections and Rose Diagram

78[°]22' 30"

Plots and calculations created using Stereonet v. 8.6.0 based on Allmendinger et al. (2013) and Cardozo and Allmendinger (2013)

Allmendinger, R. W., Cardozo, N. C., and Fisher, D., 2012, Structural Geology Algorithms: Vectors & Tensors: Cambridge, England, Cambridge University Press, 289 pp. Cardozo, N., and Allmendinger, R. W., 2013, Spherical projections with OSXStereonet: Computers & Geosciences, v. 51, no. 0, p. 193 - 205, doi: 10.1016/j.cageo.2012.07.021



Equal-Area Schmidt Net Projection of

Contoured Poles to Foliation (Shear, C or C', Regional, etc)

Contour Interval = 2 sigma N = 609













2016

North Carolina Geological Survey Open File Report 2016-04



EXPLANATION OF MAP SYMBOLS

CONTACTS, FAULTS, AND OTHER FEATURES			
 location known		diabase conceal	

 inferred		diabas
 concealed		diabas
	cross section	

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aled
ase inferred
ase location known
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<u>→X≑,-,</u>-,-,X-

Faults - Solid where location known, dashed where inferred, dotted where concealed. For normal brittle faults, D indicates downthrown side, U indicates upthrown side. The tick mark indicates dip of fault plane. Zones of late brittle fracture and/or faulting; characterized by vuggy quartz and local brecciation indicated by dashed X lines. In cross section, for ductile strike-slip faults, the circle with an X indicates movement away from the observer, the circle with a dot indicates movement towards the observer.



- Strike of vertical dike or sill
- Strike and dip of inclined ⁶⁴ regional foliation (Srs) Strike and dip of inclined regional 65 foliation (Srs)
- (multiple observations at one location) Strike of vertical regional foliation (Srs)
- Strike of vertical regional foliation (Srs) (multiple observations at one location) Strike of dip of inclined
- foliation in enclave Strike and dip of biotite 80 foliation in granitoid

LINEAR, PLANAR, AND POINT FEATURES

- ⁶¹ Strike and dip of inclined regional foliation within dike or sill Strike and dip of inclined
- regional C or C' foliation Strike of vertical regional
- C or C' foliation Strike and dip of inclined
- 78 regional C or C' foliation (multiple observations at one location)
- Strike and dip of inclined foliation in enclave
- Strike and dip of inclined fracture surface
- Strike of vertical fracture surface $50 10^{75}$ Strike and dip of inclined fracture surface (multiple observations at one location)
- Strike of vertical fracture surface (multiple observations at one location)
- Strike and dip of axial surface of fold

- ²⁰ Bearing and plunge of crenulation lineation
- Bearing and plunge of mineral lineation
- Bearing and plunge of mineral aggregate lineation
- Bearing and plunge of mineral stretch lineation
- Bearing and plunge of minor fold hinge
- Diabase station location
- Station location

MB07-487

- Abandoned mine or prospect Indicates location of vuggy quartz or sliceous breccia float
 - Geochemical station location



Base topographic map is digital raster graphic image of the Middleburg 7.5 minute USGS quadrangle (1970, revised 1982).

Disclaimer: This Open-File report is preliminary and has been reviewed for conformity with the North Carolina Geological Survey editorial standards or with the North American Stratigraphic Code. Further revisions or

> corrections to this open file map may occur. This geologic map was funded in part by the USGS

> National Cooperative Geologic Mapping Program under StateMap (Awards - 2004, 04HQAG0059; 2005, 05HQAG0082; 2006, 06HQAG0033)

Pwg

36°22' 30"

-sea level

-2000'

Warrenton

quadrangle

ESE

sea level

2000

Pwg

78[°]15'00"

Pwg



