The following was presented at DMT’11 (May 22-25, 2011).

The contents are provisional and will be superseded by a paper in the DMT’11 Proceedings.

See also earlier Proceedings (1997-2010)
http://ngmdb.usgs.gov/info/dmt/
Publishing Surficial Geologic Maps of Delaware

Lillian Wang
Delaware Geological Survey
University of Delaware
DGS Geologic Mapping

• Early years (1970-1995)
  DGS (hand-colored paper map mockup)
  printing co. (cartography/mechanicals/prints map)

• Transition years (2000-2003)
  DGS (digital geology polygons/text)
  printing co. (cartography/mechanicals/digital files/prints map)

• Modern years (2004-present)
  DGS (cartography, digital map)
  printing co. (prints map)
Delaware DataMIL
http://datamil.delaware.gov

- **Boundaries** (state, county, municipal)
- **Water Features** *(NHD)*
- **Transportation** *(centerline)*
- **Elevation** *(2 ft contours)*
- County Parcels
- Geodetic Control
- Surface Cover
- Geographic Names
- Aerial Imagery
Geologic Map of New Castle County, Delaware

by

Kelvin W. Ramsey

2005
New Castle County

Kent County
Georgetown Quadrangle
swiss hillshade method

- ESRI Spatial Analyst
- LiDAR DEM
- hillshade

Final display datasets

- LiDAR DEM
- median filter grid
- raster calculator grid

http://mappingcenter.esri.com
Search “swiss hillshade 2007”
hand drawn cross section

digital cross section
Digital Cross Sections

- ArcMap - 3D Analyst
  - (well locations, DEM)
- Profile Graph exported as data table
- Data table imported to Grapher
- Cross-section figure is exported to Adobe Illustrator
early years at DGS

Amount of Work

Printing Process

DGS

Printing Co.

modern years at DGS

Amount of Work

Printing Process

DGS

Printing Co.

mechanical printing
digital printing
My office for a day