

[Return  
to  
Contents](#)

## Map Symposium

# MCC Mining Compact Commission

## Mine Mapping Workshop

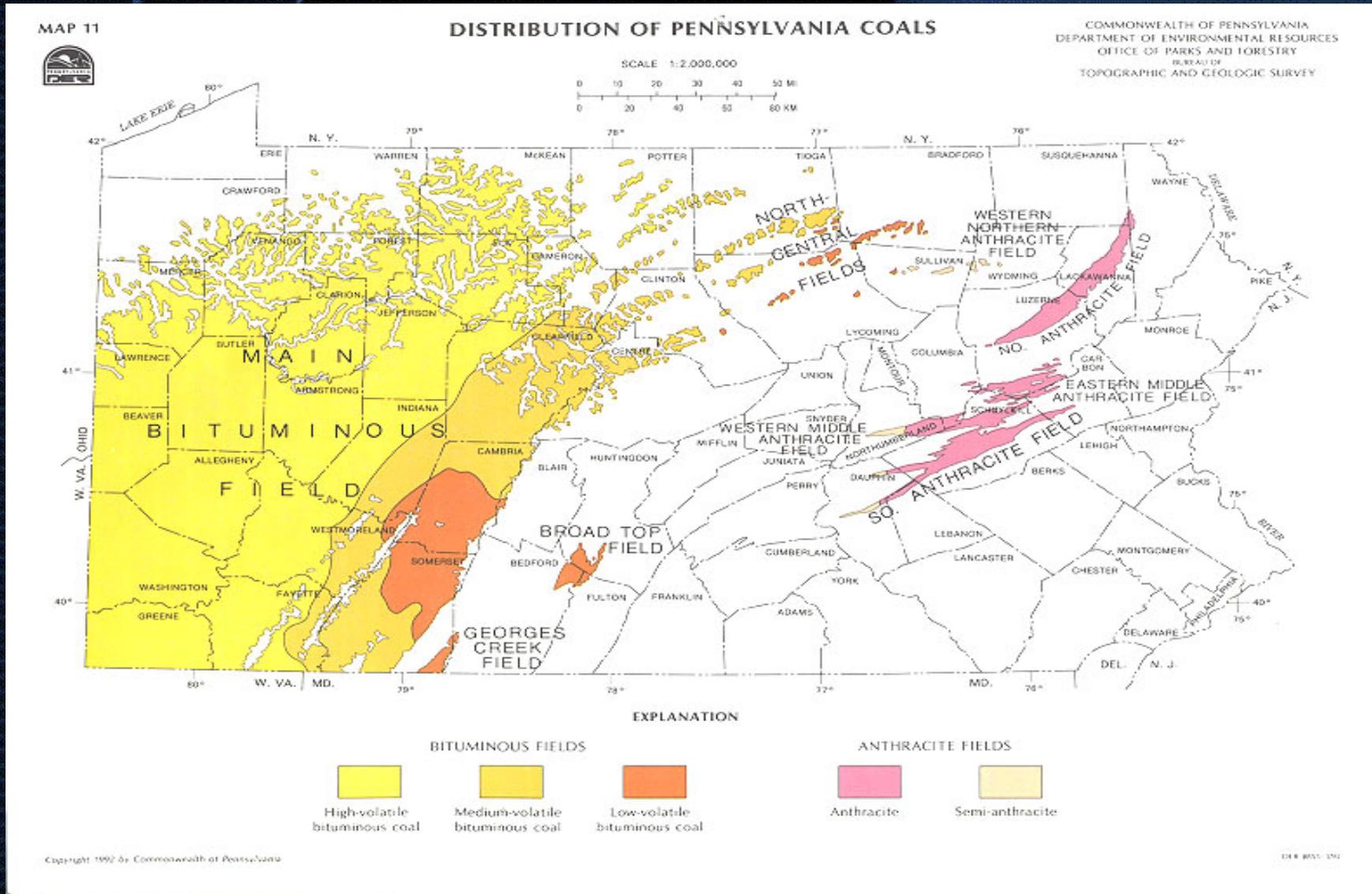
## Louisville, Kentucky

PA Bureau of Deep Mine Safety

## Map Symposium

# Pennsylvania's Initiative on Preservation of Maps of Abandoned Mines

# Map Symposium



# Map Symposium

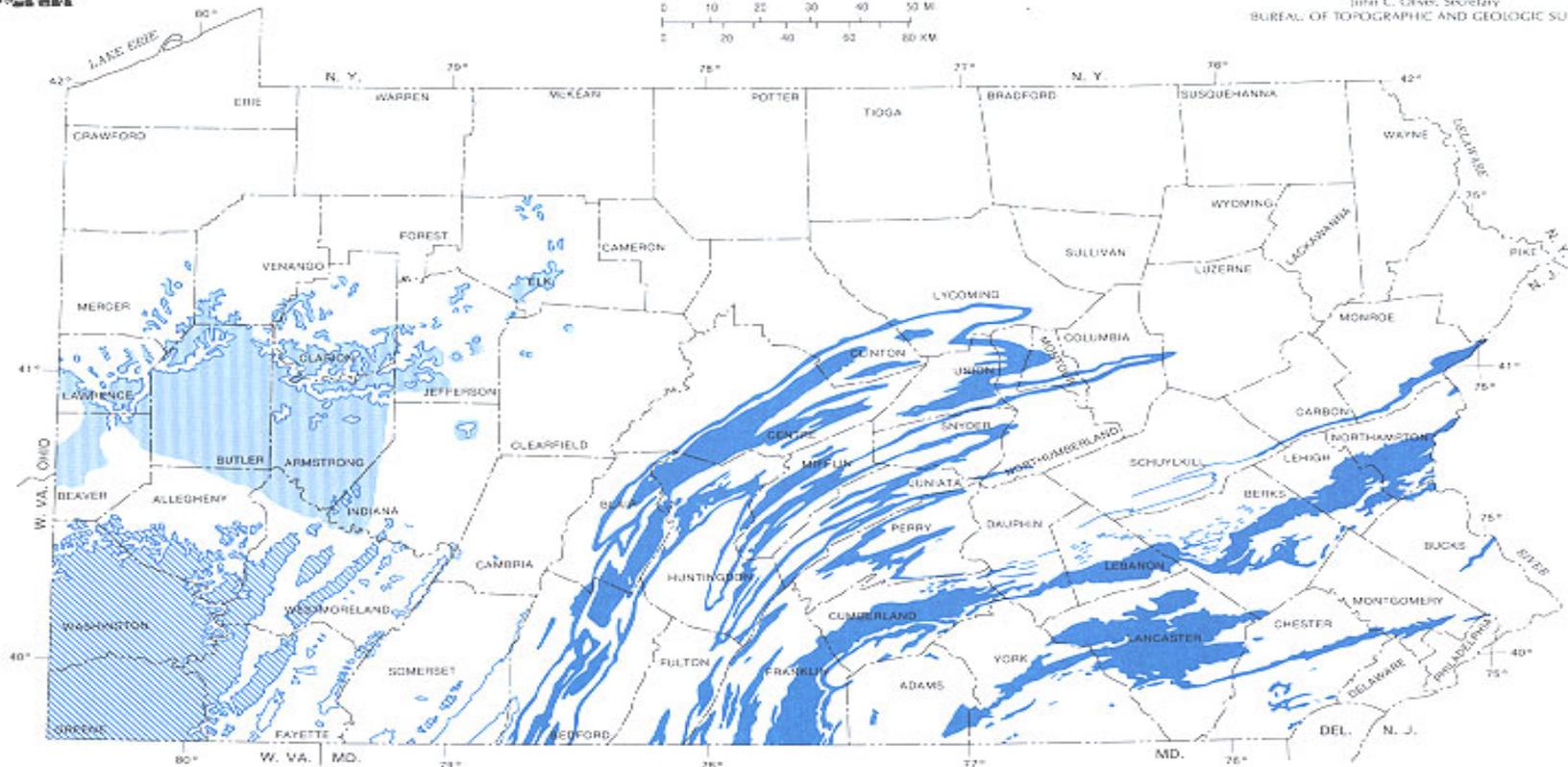
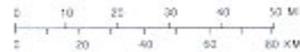
MAP 15

DCNR

## LIMESTONE AND DOLOMITE DISTRIBUTION IN PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA  
Tom Ridge, Governor  
DEPARTMENT OF  
CONSERVATION AND NATURAL RESOURCES  
John C. Oliver, Secretary  
BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY

SCALE 1:2,000,000



### EXPLANATION



Area where limestone, dolomite, or both are at the surface. Layers are usually strongly folded and steeply dipping. Includes economically important high-calcium limestones of the Kinzers, Annville, Benner, and Keyser Formations and the Cockeysville Marble, as well as the high-magnesian dolomites of the Ledger Formation and the Cockeysville Marble. This area is most susceptible to sinkhole development.



Area underlain by flat-lying, generally thin, but locally thick, limestone beds, which are discontinuous in places and are commonly interbedded with shale.



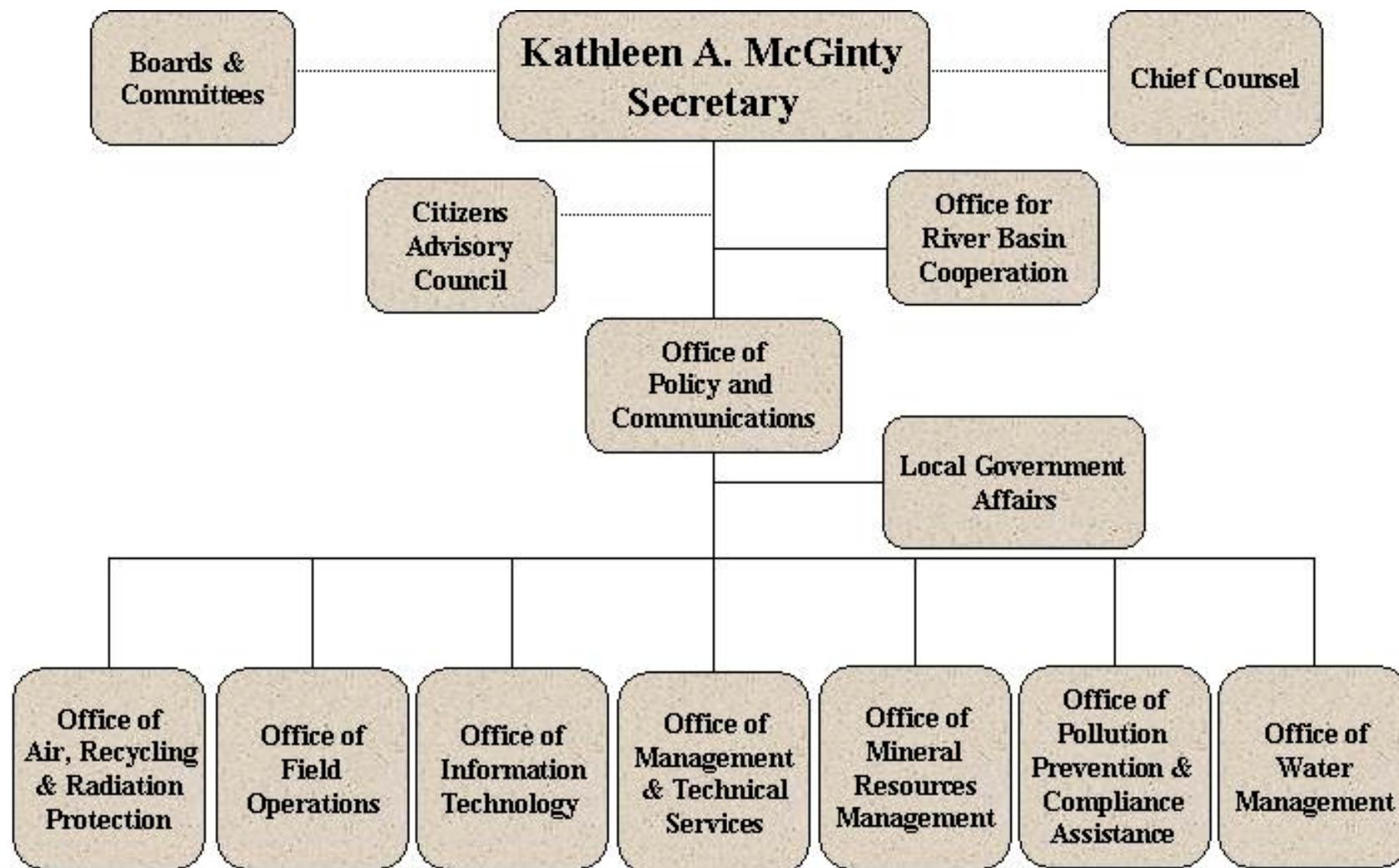
Area underlain by the generally flat lying Pennsylvania Vancourt Limestone, a high-calcium limestone. This limestone is generally overlain by less than 100 feet of sedimentary rocks, except in the southern part of the area.

PA Bureau of Deep Mine Safety

# Map Symposium

## Department of Environmental Protection

### Different Programs / Different Goals



# Office of Mineral Resources Management

Abandoned Mine Reclamation

Mining and Reclamation

District Mining Operations

Deep Mine Safety

Oil and Gas

# Map Symposium

**Bureau of Deep Mine Safety**

**District Mining Office**

**California Pa**

**Abandoned Mine Reclamation**

# Map Symposium

## Bureau of Deep Mine Safety

### Safety of Miners and General Public

#### District Mining Offices

#### Mine Subsidence

#### Mine Permits

# Map Symposium

## Abandoned Mine Reclamation

Resolving problems-mine fires,  
subsidence, highwalls –  
abating or treating acid mine  
drainage

Mine Subsidence

# Map Symposium

## Bureau of Deep Mine Safety

**Ability to drill into an entry**

**Ability to hit a specific pillar**

**Exact Extent and Location are Critical**

# Map Symposium

## District Mining Offices

**Was the Area Undermined**

**Was the area Pillared**

**What is Extent of Pillaring**

# Map Symposium

## Abandoned Mine Reclamation

**Location and extent of mining can be critical**

**Both specific and general mapping needs**

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**Program Goals**

**Determine Mapping  
Requirements**

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## Map Storage and Preservation Issues

### Deterioration of Maps

### Need to Maintain for Future Generations

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**Working Documents**

**Maps Stored –Folded- in Envelopes**

**Proper storage with minimal space**

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## Geo-Referencing Issues

**Lack of adequate base map**

**Lack of reference points  
and coordinates**

**Destruction of physical  
features**

# Map Symposium

## Goals

**Locate the Sources of maps**

**Identify each Source with  
Contact Information**

# Map Symposium

## Goals

**Build a database of contacts**

**Publish database on website**

**Obtain maps or copies**

**Preserve digital copy or all maps**

# Map Symposium

## Goals

**Work with PHMC to develop preservation plan**

**Develop database of key information within annual reports – Link to maps**

# Map Symposium

## Questions

**Thank You for the opportunity to  
Let others know what we are doing**

# Map Symposium

**Bureau of Deep Mine Safety**

**Vidar Atlas 40" Scanner**

**CopyPro Software**

**Ability to clean image**

# Map Symposium

## **.tif Images**

**300 dpi acceptable  
compromise between  
quality and file size**

**Map Symposium**

**District Mining Office**

**Monochrome Scanner**

**400 to 800 dpi**

**.tiff MSB-G3 images**

# Map Symposium

**District Mining Office**

**Contact**

**Joe Taranto**

**724-769-1100**

**[jtaranto@state.pa.us](mailto:jtaranto@state.pa.us)**

Map Symposium

**BAMR**

**Bureau of Abandoned Mine Reclamation**

**Wilkes-Barre Pa**

PA Bureau of Deep Mine Safety

# Map Symposium

## Map Sources

### Own Collection

2715 cataloged maps

### OSM Microfilms

Can Scan- Poor Quality

### OSM Map Folios

# Map Symposium

## OSM Map Folios

**Cooperative agreement with OSM**

**1998 Pilot Project to Scan and**

**Geo-reference Folios 1:1200 Scale**

**559 of 734 Folios Scanned**

# Map Symposium

**OSM Map Folios**

**Color Scan at 200dpi**

**.tif images**

**CD Back-ups**

**ARCview digital folio index**

# Map Symposium

## OSM Map Folios

### Contact

**Kim Snyder**

**570-830-3176**

**[Kisnyder@state.pa.us](mailto:Kisnyder@state.pa.us)**

# Map Symposium

## Questions

**Thank You for the opportunity to  
Let others know what we are doing**