Responding to Research in the Kope Formation, Northern Ky

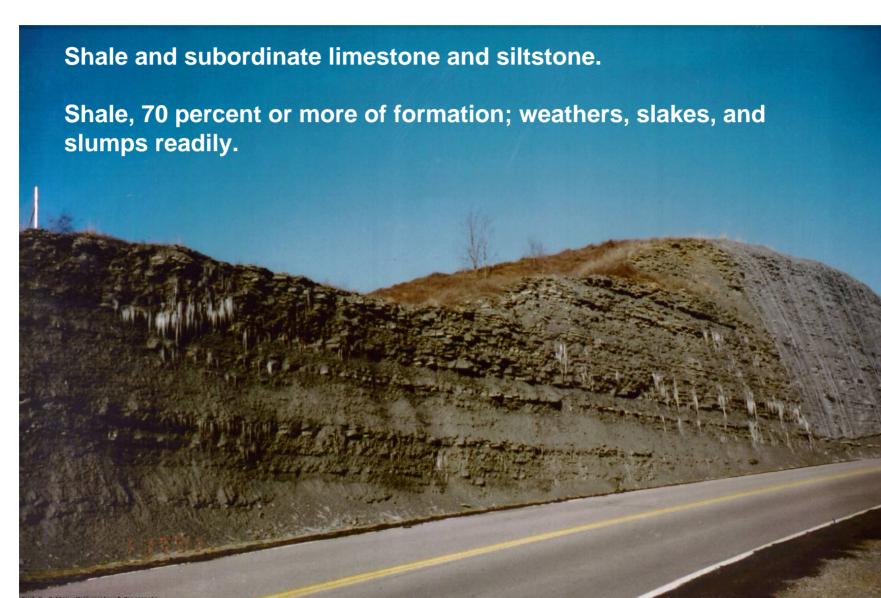
John Kiefer, kiefer@uky.edu Warren H. Anderson, wanderson@uky.edu

William Andrews, wandrews@uky.edu

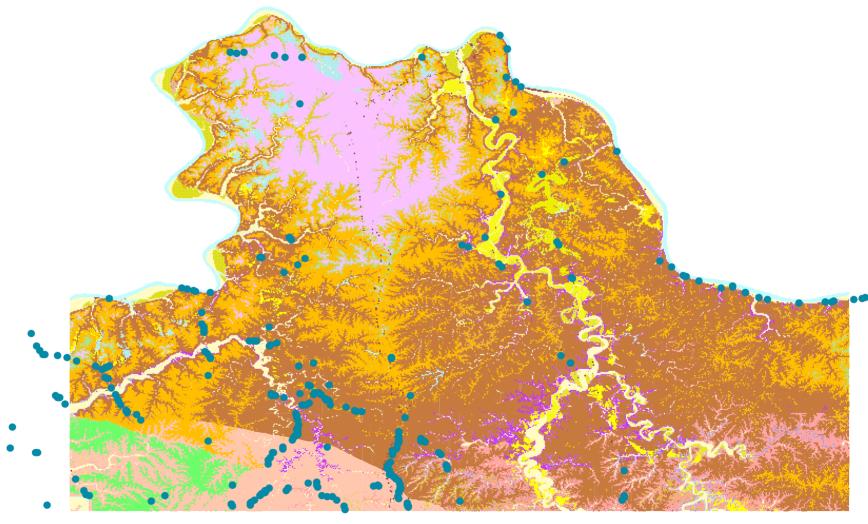


Dealing with development issues in a rural landslide-prone area of Kentucky...

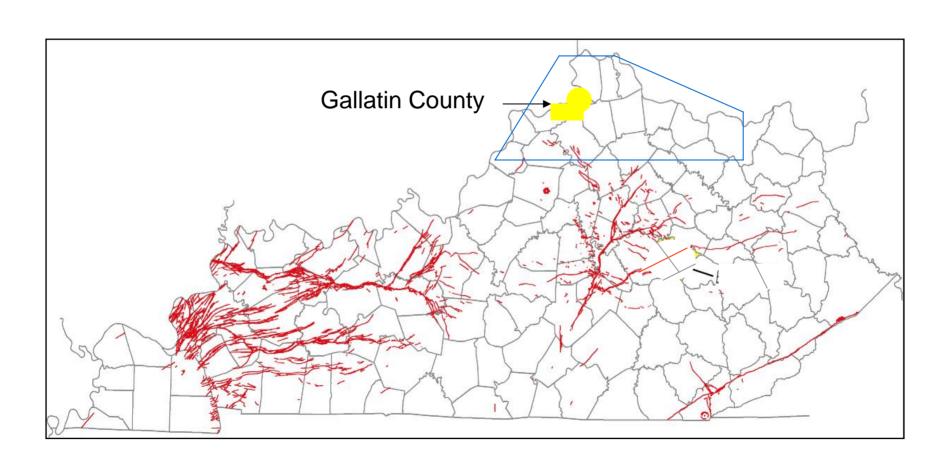
Ordovician Kope Formation



Falmouth Landslides



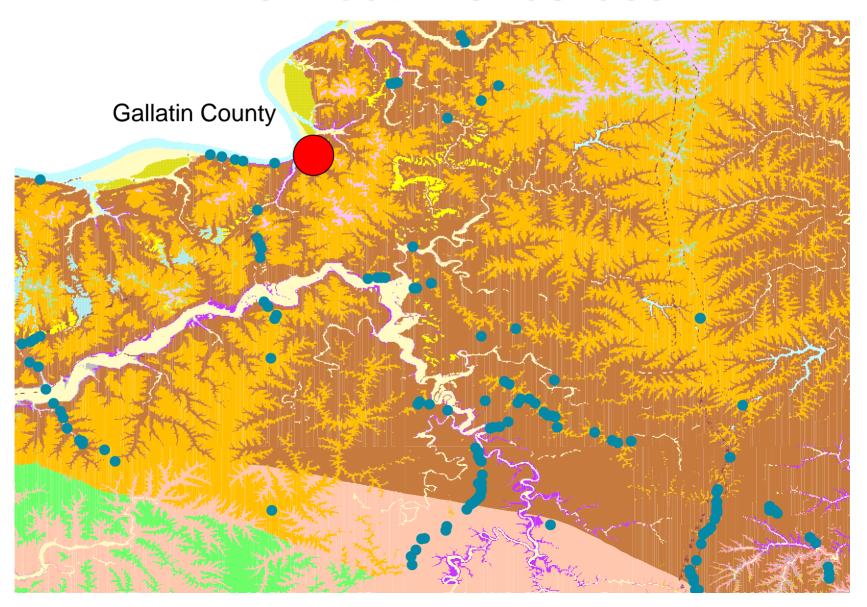
Location-Northern Kentucky



Ohio River



Falmouth Landslides



Gallatin County Subdivision







Road Foundation Failure





Masonry damage



Wall Cracks





Limestone Mine



DOQQ of Mine and Subdivision



Inadequate drainage



Septic system in front yard



Spring beneath home



Why was problem overlooked?

- No requirement/code to consider geology
- Rural area; limited planning/zoning
- "Acts of God" vs. foreseeable events
- Business as usual?
- Conflict of interest

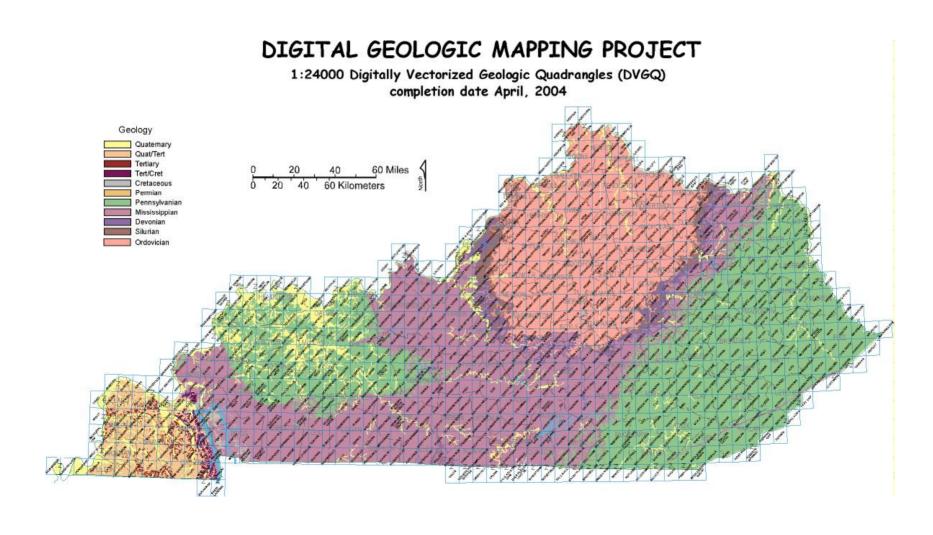
KGS Activities

- Digital geology, website
- Generalized geology for landuse planning
- Workshops, training
- New field mapping
- Future: geotechnical maps

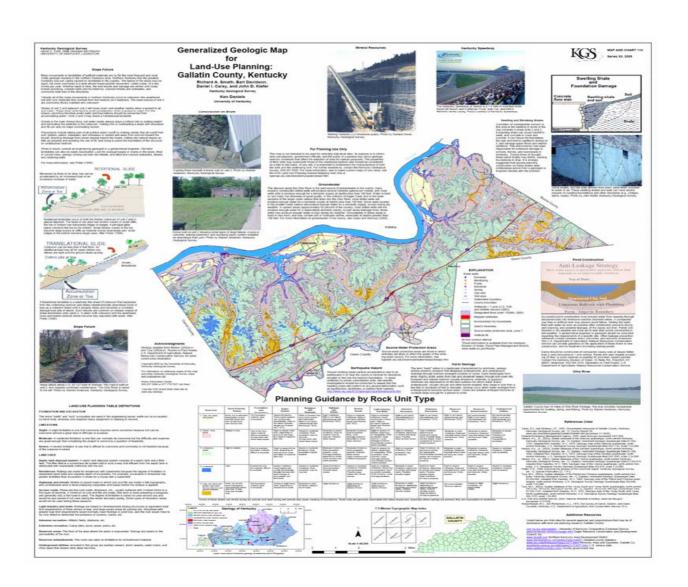
DVGQ's

- Digitally Vectorized Geologic Quadrangles
- Digital GQ data for the entire state
- Useful in Planning, Design, Construction and Remediation
- EDUCATION

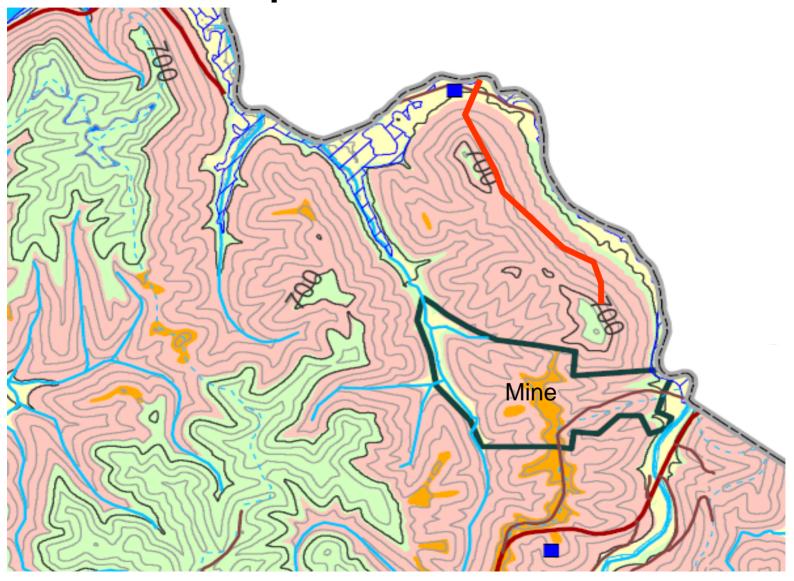
Digital Geologic Mapping Project

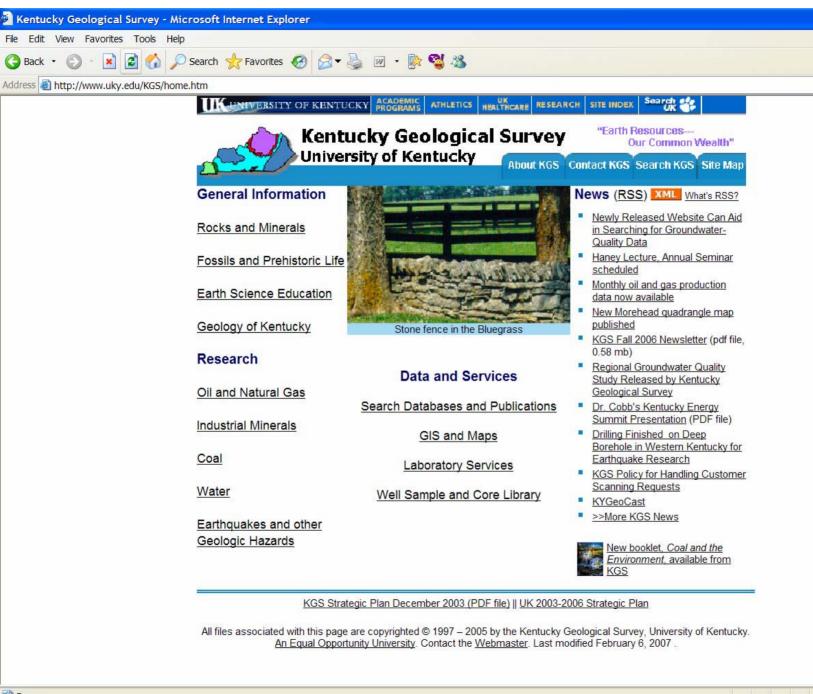


Land Use maps



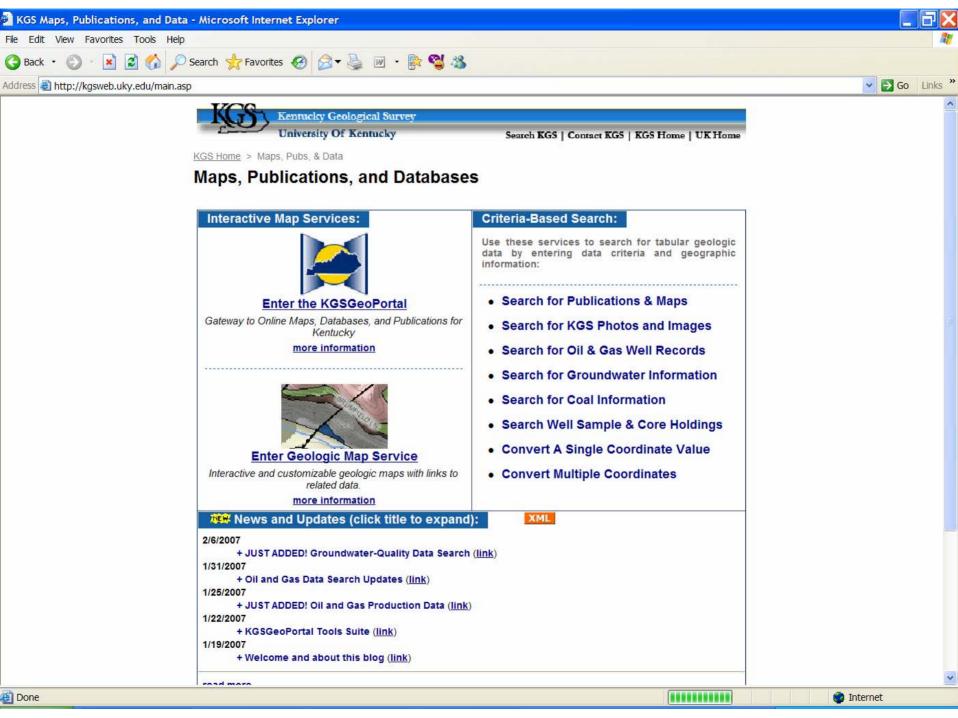
LU Map-Subdivision area

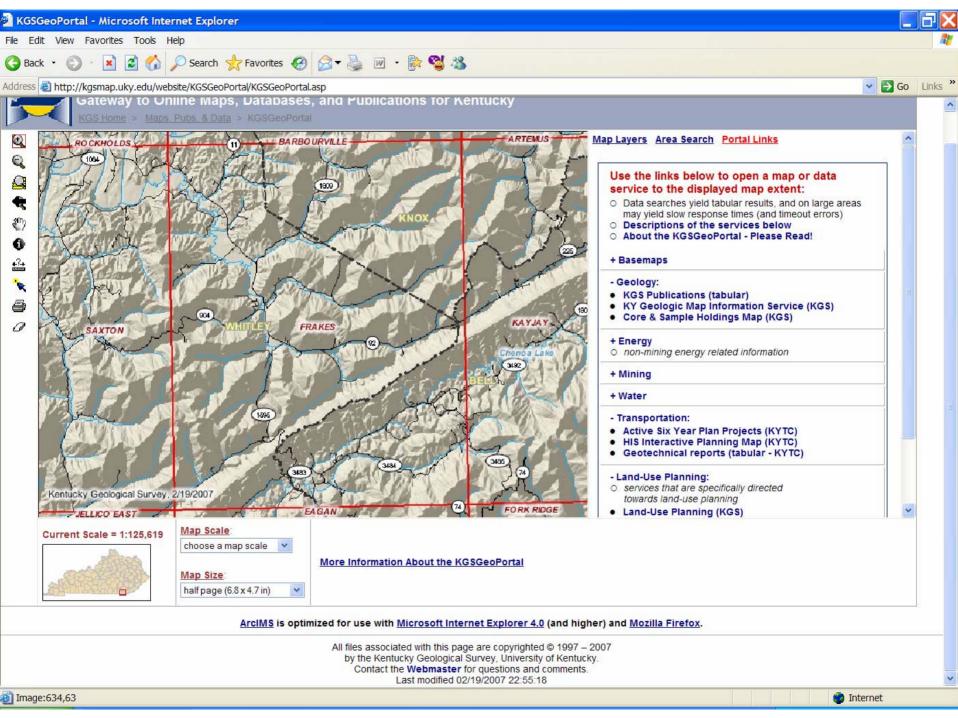






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zoom to a location

view other KY maps

(at same extent)

Geologic maps and geologic issues in Kentucky: a citizen's guide (pdf - 25 MB)

. Geologic maps and geologic issues in Kentucky: a citizen's quide (divu - 2 MB)

Enter a Custom Map

half page (6.8 x 4.7 in)

zoom

Scale

Map Size:

Lithologic descriptions available for

areas outlined in orange.

