

National Geological Mapping

- **National Geological Mapping Act of 1992**
- **National Cooperative Geological Mapping Program (NCGMP)**
 - **Mission:** *To provide reliable geologic maps and subsurface frameworks that contribute to sustaining and improving the quality of life and economic vitality of the Nation and mitigating hazardous events and conditions.*
- **NCGMP Contacts**
 - **Peter Lyttle, Program Coordinator, Core Science Systems, USGS**
 - **Kevin Gallagher, Associate Director for Core Science Systems, USGS**
- **NGAC Contact**
 - **Don McKay**

June 2011 NGAC Meeting

NCGMP

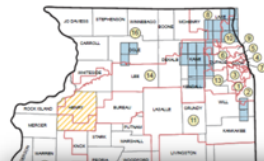
■ Program components

- **FEDMAP** – geologic mapping by U.S. Geological Survey
- **STATEMAP** – mapping by State Geological Surveys
- **EDMAP** - mapping by University students
- **Regional Coalitions and Federal Initiatives**
 - Geologic mapping of unique/priority regions, e.g. complex geology of populous glaciated regions
 - Geologic mapping for special purposes addressed by federal initiatives, e.g. specific important groundwater aquifer systems

National Cooperative Geologic Mapping Program

STATEMAP Component: States compete for federal matching funds for geologic mapping

ILLINOIS



STATEMAP Projects
1994 to present

- Congressional Districts
- STATEMAP 1:24,000
(1 map, Bedrock and Surface)
- STATEMAP 1:24,000
(2 maps, Bedrock and Surface)
- STATEMAP 1:100,000
(Surface Geology)

Contact information

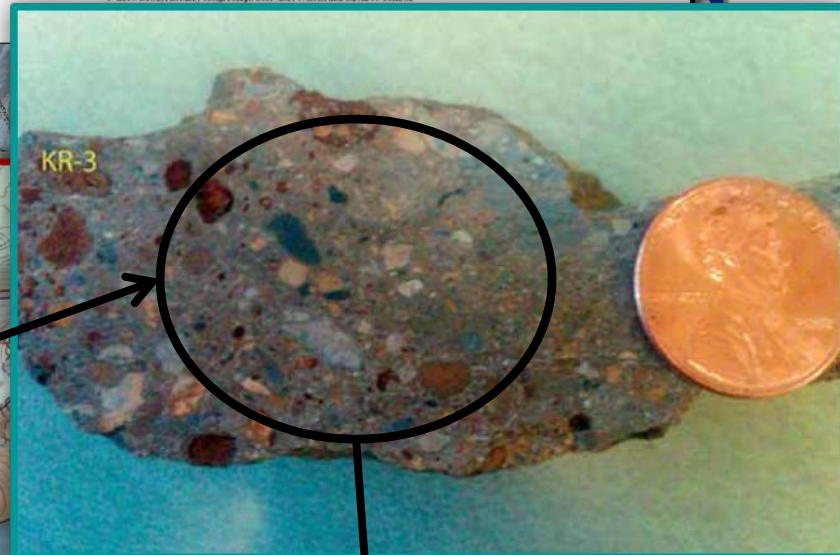
Detail
Via S

BEDROCK GEOLOGY OF KARBERS RIDGE QUADRANGLE

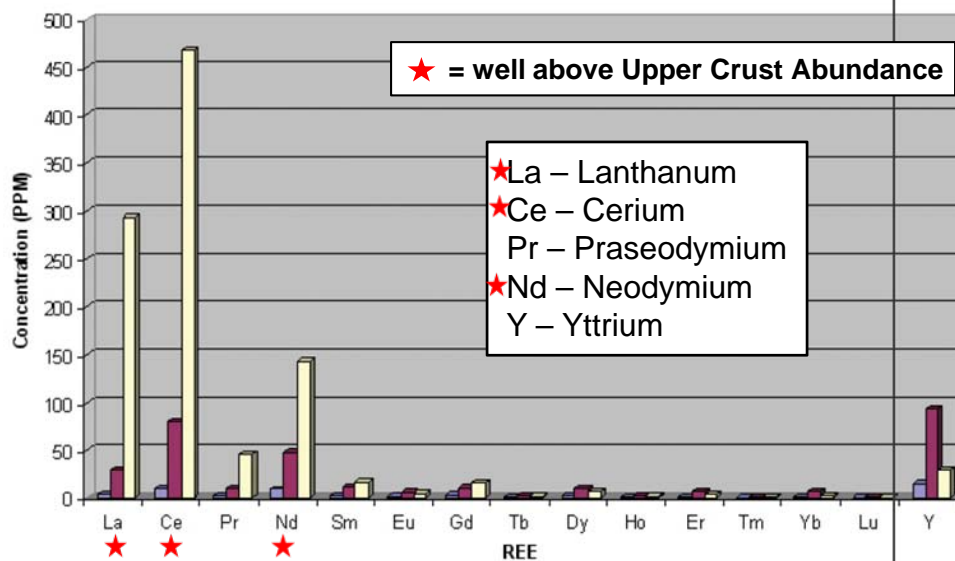
HARDIN, GALLATIN, AND SALINE COUNTIES, ILLINOIS

F. Brent Denno, Bradley King, Joseph Mahoney-Morris, and David H. Malone

STATE GEOLOGICAL SURVEY
U.S. GEOLOGICAL SURVEY

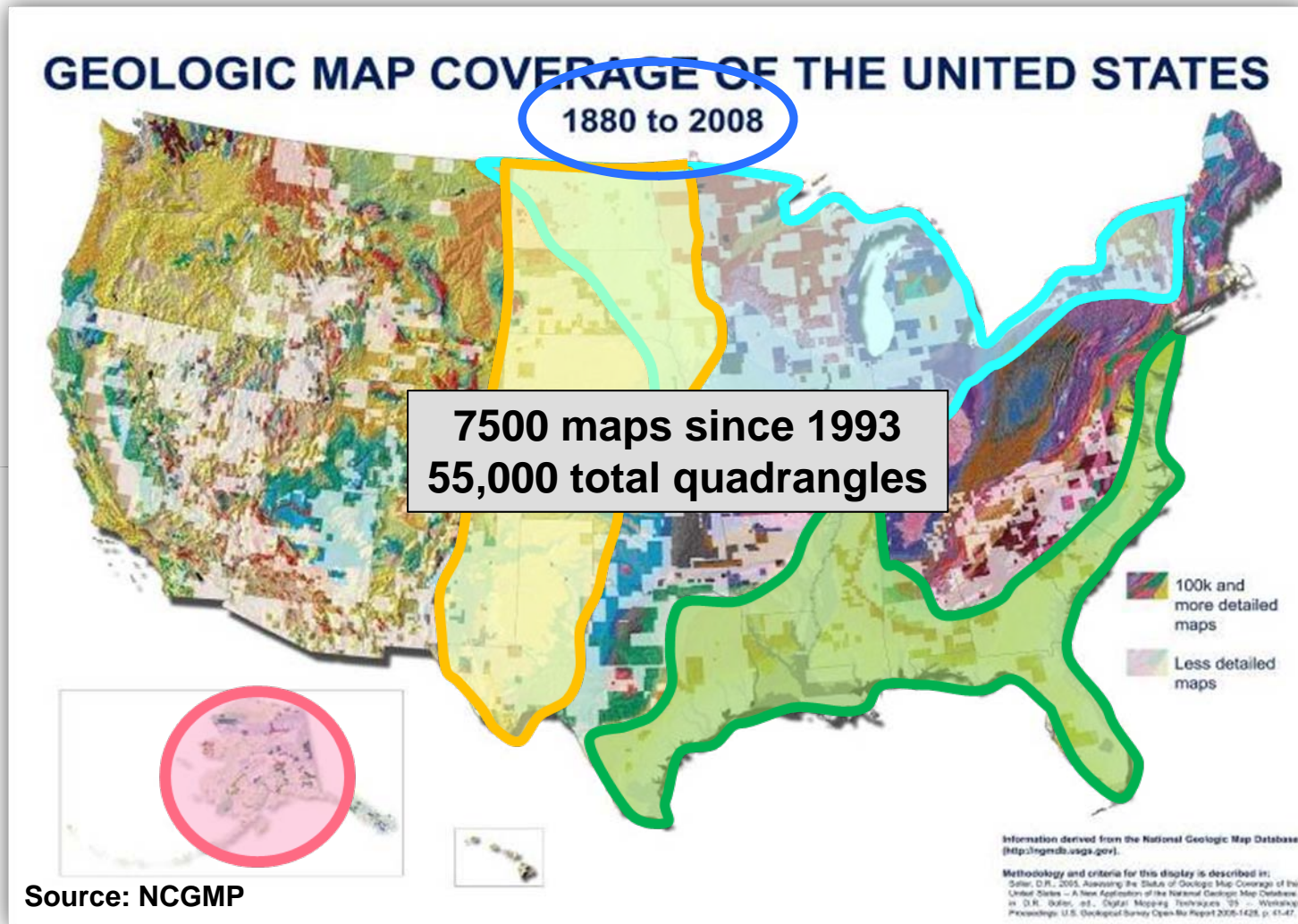


Rare Earth Elements (REE)



sory Committee

Progress and Pace



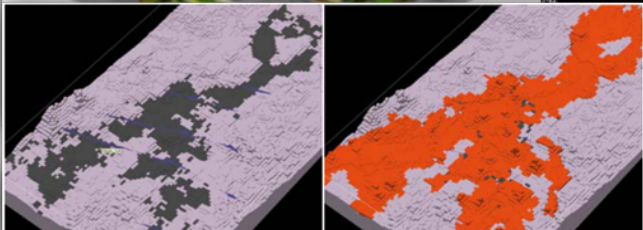
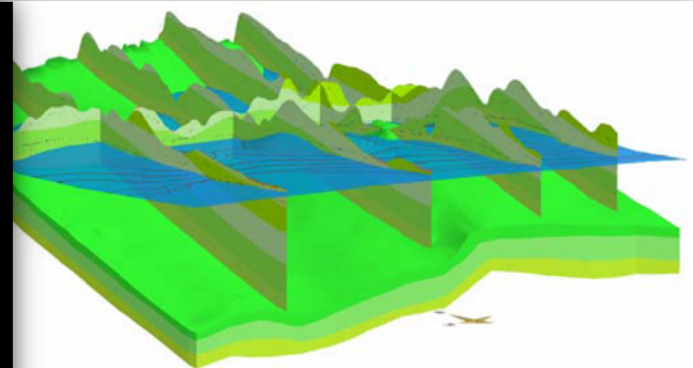
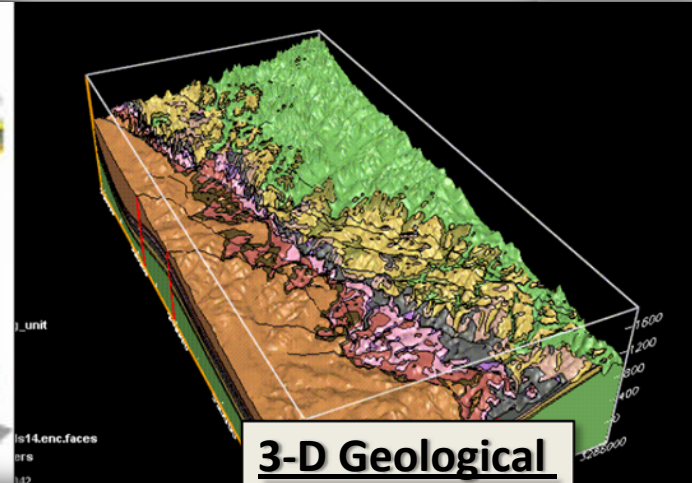
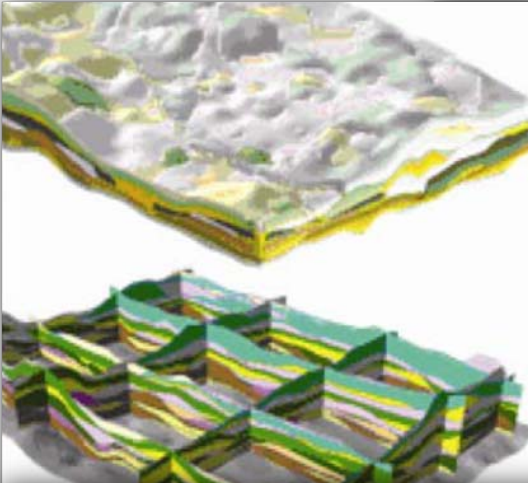
Source: NCGMP

Current Activities

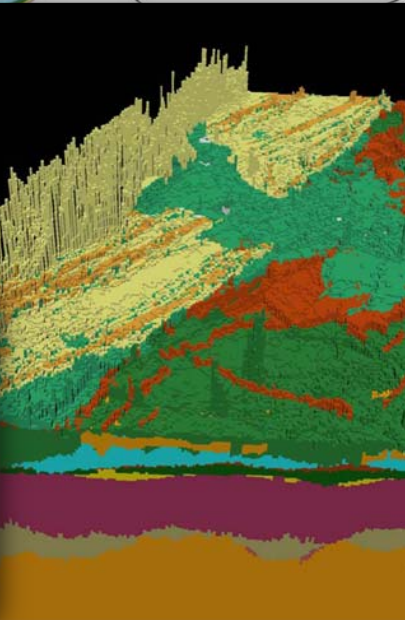
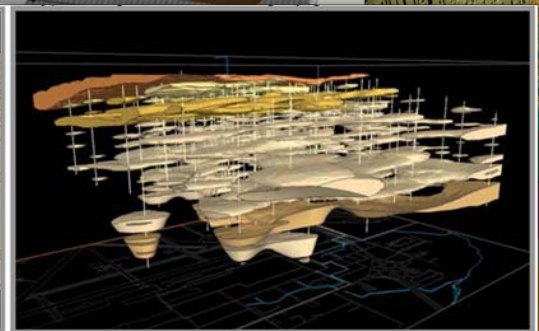
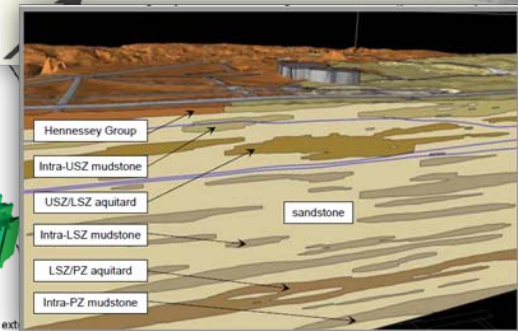
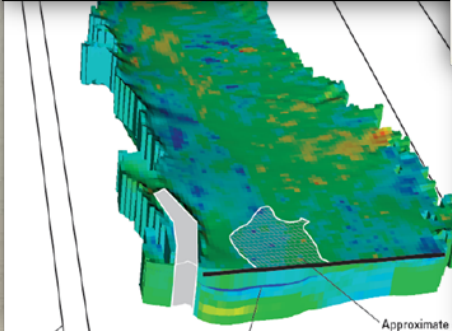
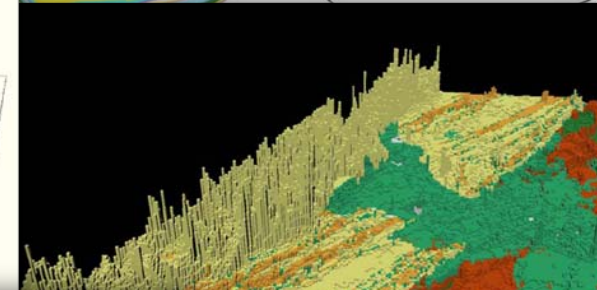
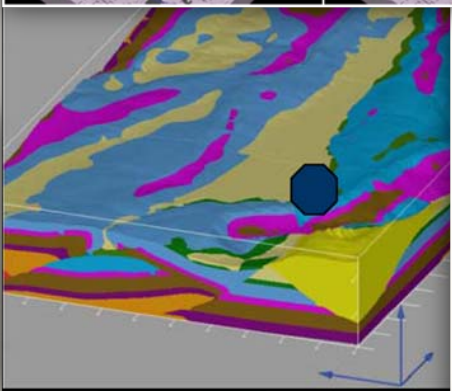
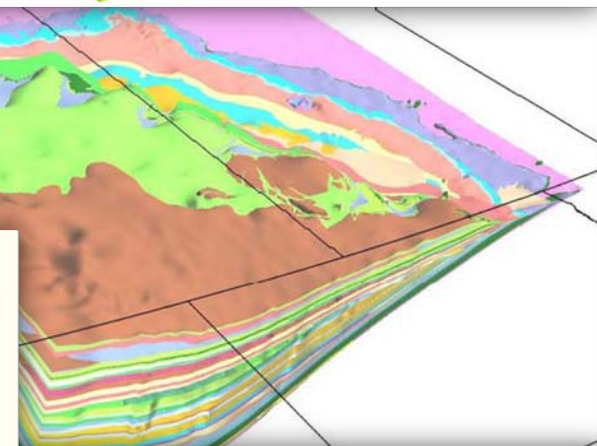
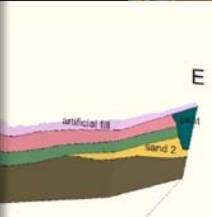
Activity	Timeframe
Map the Nation geologically (USGS plus 43 to 47 States participating annually)	>100 years
Implement digital geologic map standards (NCGMP09 v.1.1 - draft)	In work
Populate the National Geologic Map Database (e.g. NGMDB)	In work
Develop robust 3D geologic mapping methodology (Great Lakes Geologic Mapping)	In work
Work with USGS Contacts to identify ways NGAC may assist (NCGMP FACA in late June)	In work

National Geological Mapping

Don McKay, NGAC POC for NCGMP
emckay@illinois.edu
217 493-8541 cell



**3-D Geological
Mapping from:**
Australia
Canada
France
Germany
Netherlands
UK
US



NCGMP

FY11(\$64 million authorized)

- **FEDMAP** \$21.2 million
- **STATEMAP** \$6.9 million
- **EDMAP** \$1.0 million
- **Coalitions and Initiatives** \$.75 million

FY12

- **TBD**

STATEMAP: Mapping State-selected Priorities

