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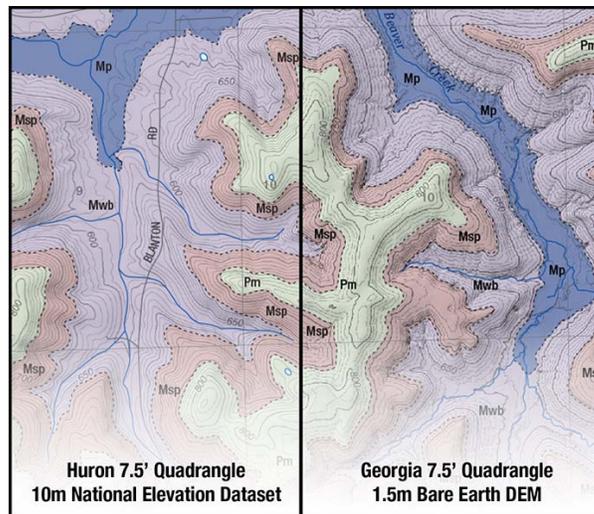
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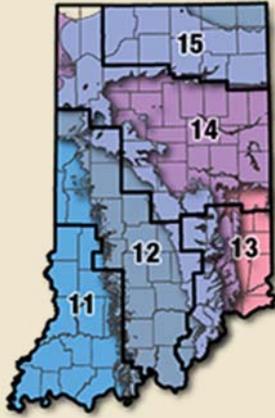
"An entirely new look at the Earth"

LiDAR, which stands for "light detection and ranging" technology, is giving geologists a new and detailed look at the Earth's surface, showing features that have never been seen before. Indiana is in the process of collecting these data for the entire state.

John C. Steinmetz, Indiana State Geologist and Director of the IGS, explains this groundbreaking technology and outlines its benefits in [a new article on the IGS Website](#).



The LiDAR-derived image on the right is much more detailed than the image produced from older elevation data in the adjacent quadrangle.



Indiana's Geologic Names

Reading the geologic names for rock units is like taking a trip through the geography and history of Indiana---the Mariah Hill Coal Member, the St. Wendel Sandstone, the Pirtle Coal Member, the Fulda Bed. But there is much more to these names, and now the IGS has devised an easy way for you to learn more about the stratigraphic rock units of Indiana.

The new stratigraphic interface of the [Indiana Geologic Names Information System](#) on the IGS Website allows you to explore and understand the stratigraphic and geographic relationships of Indiana rock-units in ways that were previously not possible. You can scroll and view the formal names and relationships of stratigraphic units

from the Precambrian to the Pennsylvanian, read and download abbreviated descriptions of stratigraphic units, and link to more detailed information.

Upcoming Events

[Lawrence County Gem, Mineral, and Fossil Show](#), August 9-11, Lawrence County Fairgrounds, near Bedford, Ind.

[500 Science Club Gem, Mineral, and Fossil Show](#), September 6-8, Greenfield, Ind.



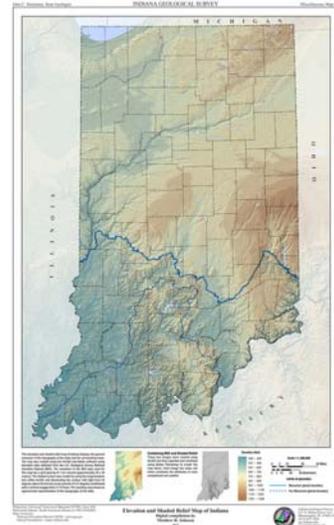
Flooding in Indiana

We've had a very different (and very wet) spring and summer compared to last year's drought. Because Indiana is crisscrossed by major rivers and tributaries along with the fact that about 24 percent of the state was once covered by wetlands, much of the state is susceptible to severe flooding.

For an interesting look at past Indiana floods, including the Great Flood of 1913 and the floods of 2008, [read a new article on the IGS Website](#).

New IGS Publications

The Indiana Geological Survey publishes a wide range of different types of literature, from booklets that teach kids about rocks, to technical scientific studies based on the research of our scientists, to geologic maps that are useful for Indiana's economic growth. Additionally, much of the work of our geologists is also published in highly respected scientific journals. Here are just a few of our new publications:



[Predicted carbon dioxide emissions from Indiana coals during combustion](#), by M. Mastalerz, A. Drobniak, and K.R. Shaffer: Indiana Geological Survey Report of Progress 42.

[Elevation and shaded relief map of Indiana](#), by M.R. Johnson: Indiana Geological Survey Miscellaneous Map 88.

[Interactive map of the Danville Coal Member in Indiana](#), by A. Drobniak and M. Mastalerz: Indiana Geological Survey Report of Progress 44.

[Quaternary geology of the Nappanee West 7.5-minute quadrangle, Indiana](#), by A.H. Fleming and M.D. Karaffa: Indiana Geological Survey Miscellaneous Map 89.

[Three-dimensional geologic framework model of the glacial interlobate region of northern Allen County, Indiana](#), by S.L. Letsinger: Indiana Geological Survey Open-File Study 12-02

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Sincerely,

Deborah DeChurch, Editor
Indiana Geological Survey



