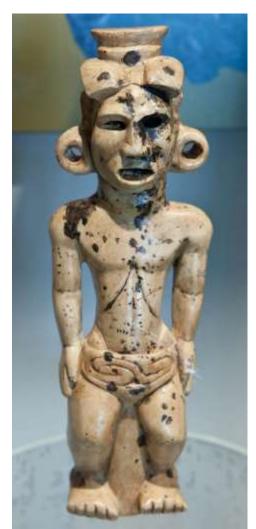








Miamisburg Mound, Ohio – Adena



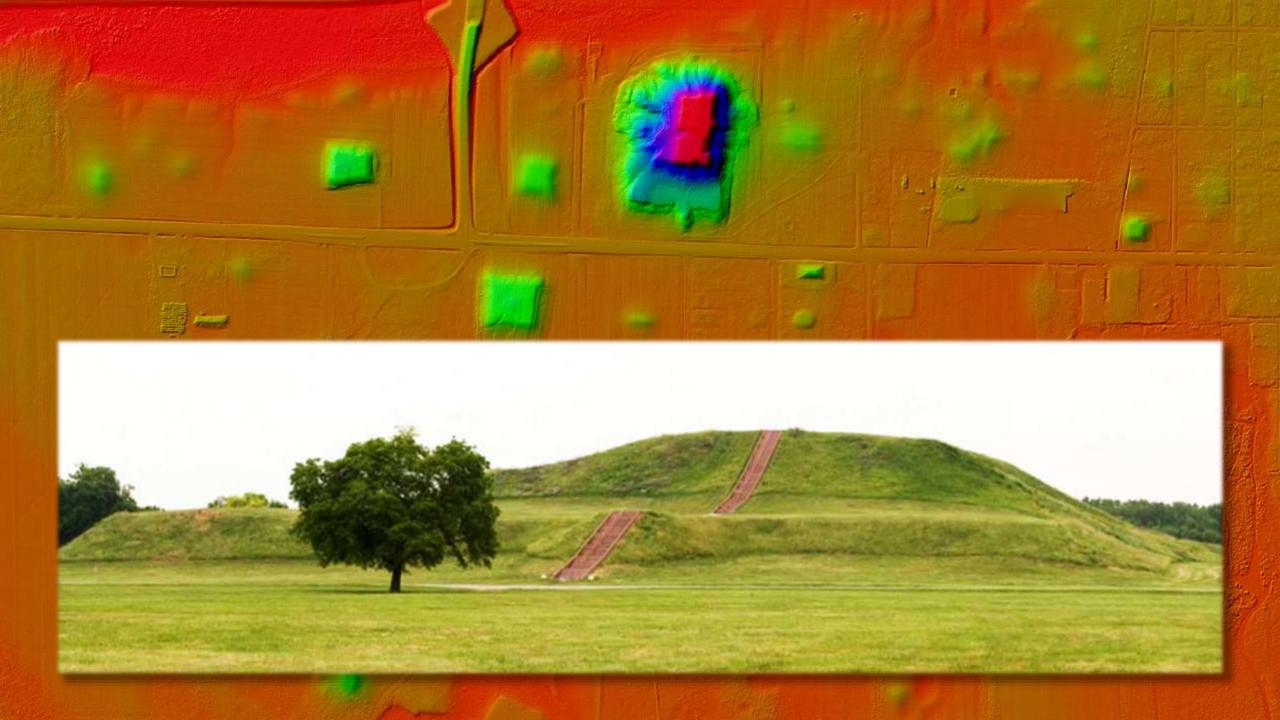


Hopewell Culture National Park, Ohio







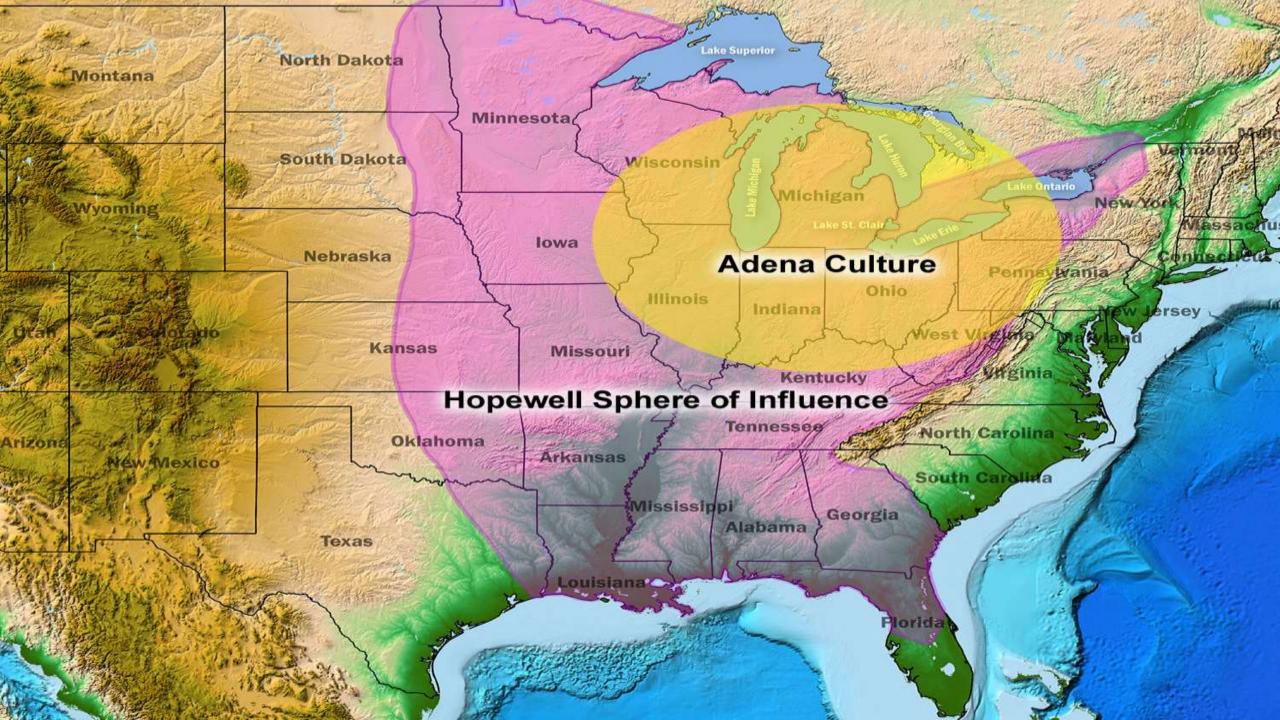


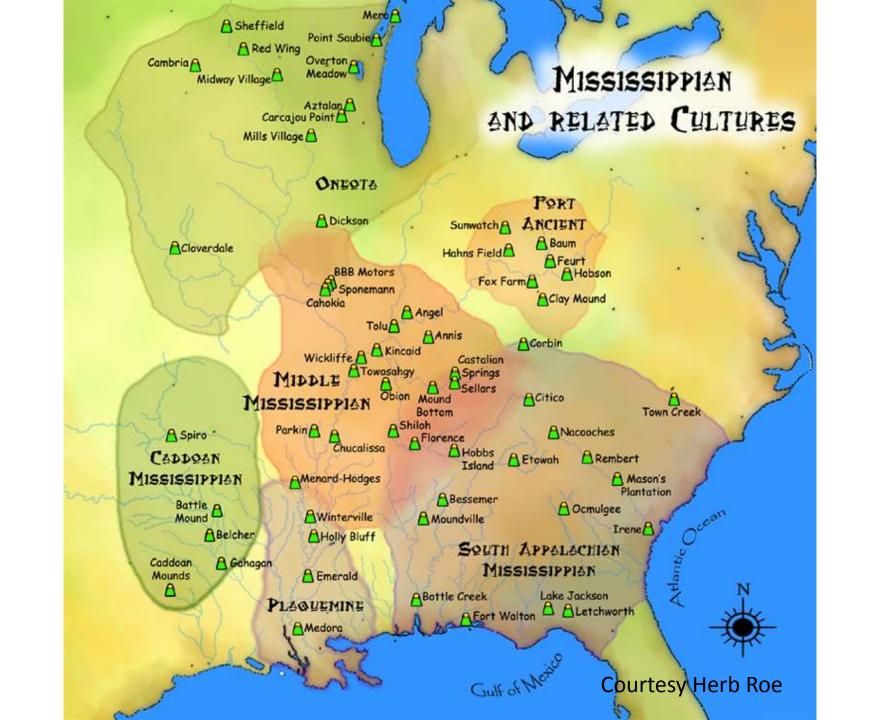
Mound Building Cultures

- Adena Culture / Early Woodland
 - 1500 BC to 300 BC

- Hopewell / Middle Woodland
 - 300 BC to 400 AD

- Mississippian Cultures
 - 800 AD to 1600 AD







ANCIENT MONUMENTS

0

THE MISSISSIPPI VALLEY:

COMPRISING THE RESULTS OF

EXTENSIVE ORIGINAL SURVEYS AND EXPLORATIONS.

BY

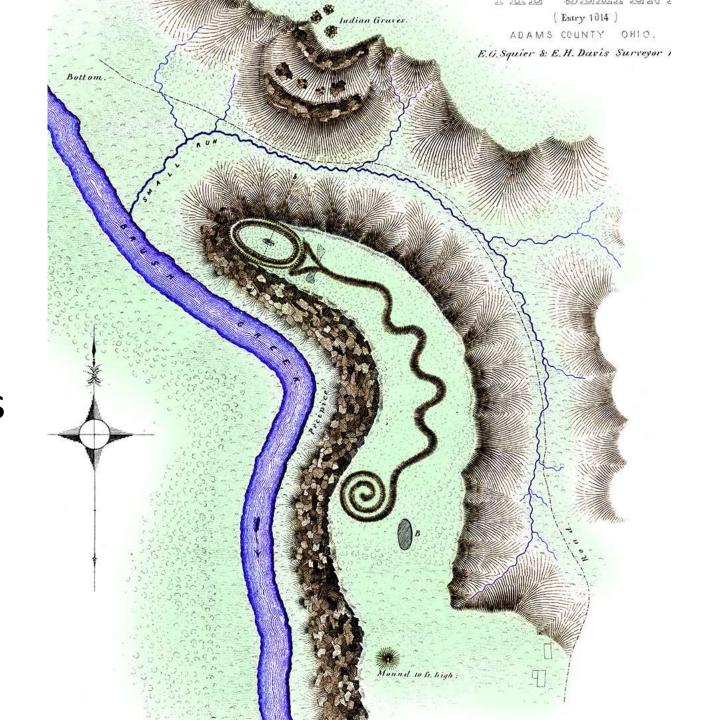
E. G. SQUIER, A.M., AM E. H. DAVIS, M.D.

ACCEPTED FOR PUBLICATION
BY THE SMITHSONIAN INSTITUTION,
JUNE. 1847.

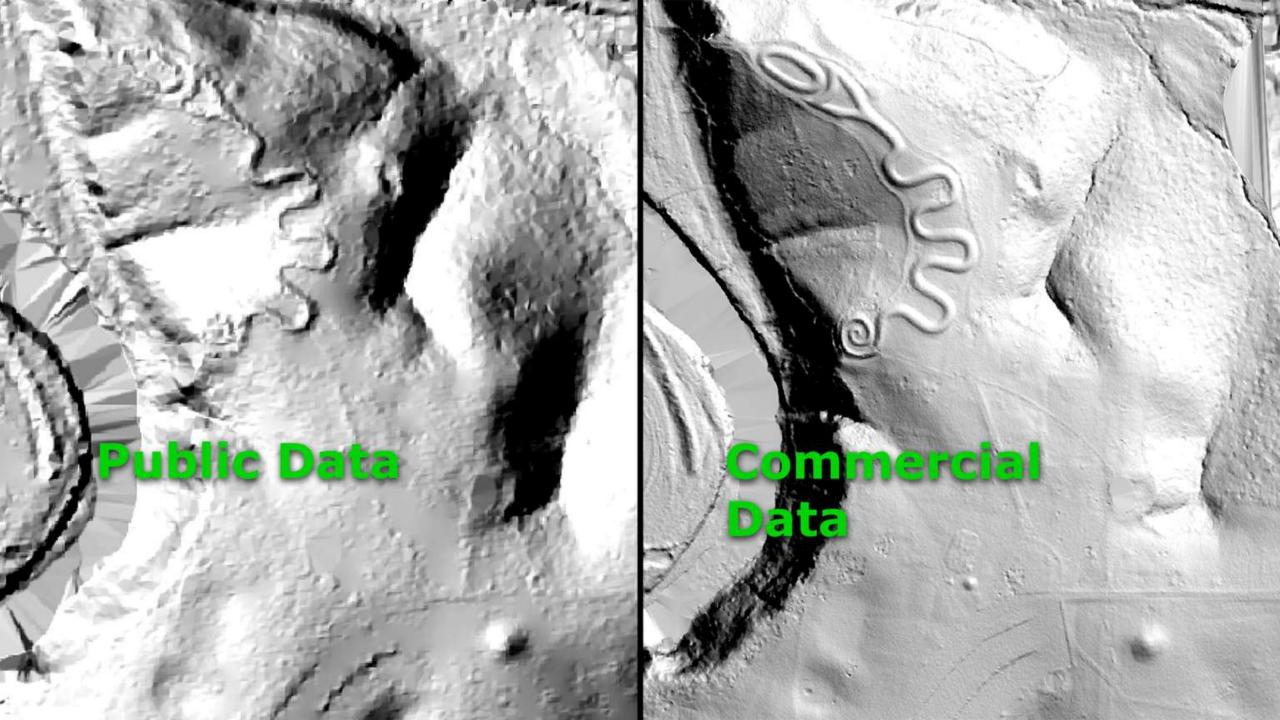


Serpent Mound, Ohio

- Effigy mound.
- Surveyed by E. G.
 Squier and F. H. Davis in 1846.
- 1,348 foot long.
- 3 feet high.

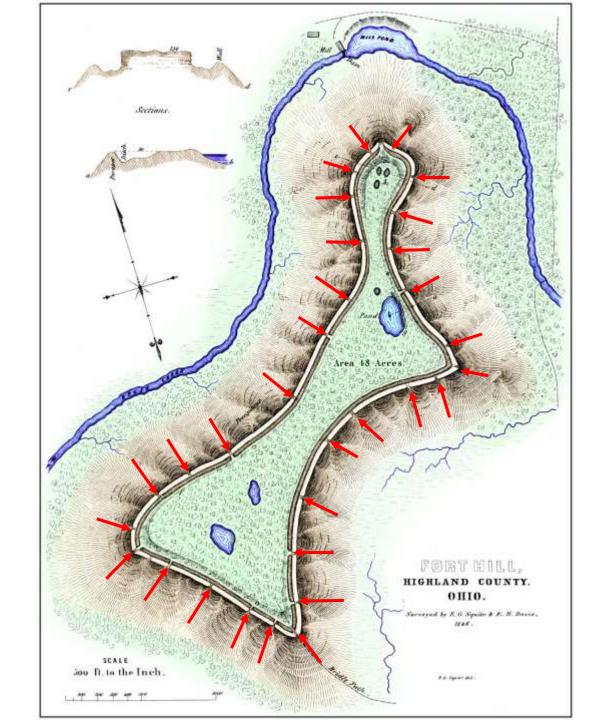






Fort Hill, Ohio

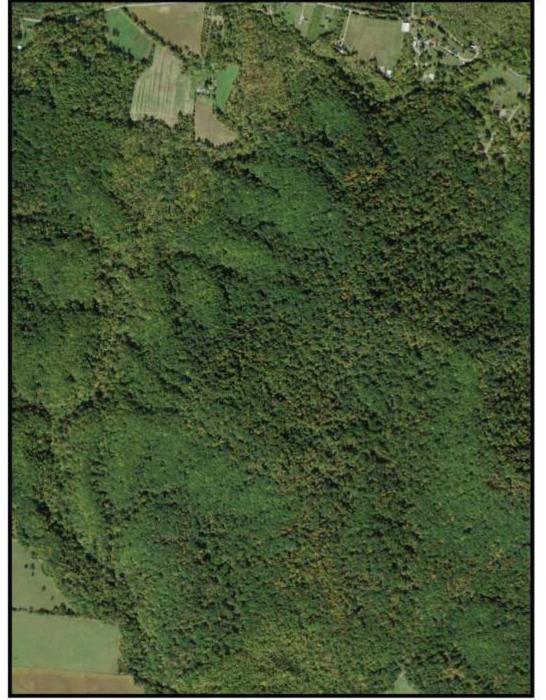
- Surveyed by E. G. Squier and F. H. Davis in 1846.
- 40 Acre enclosure.
- 1.5 miles of earthen walls.
- Walls 6-15 feet high.

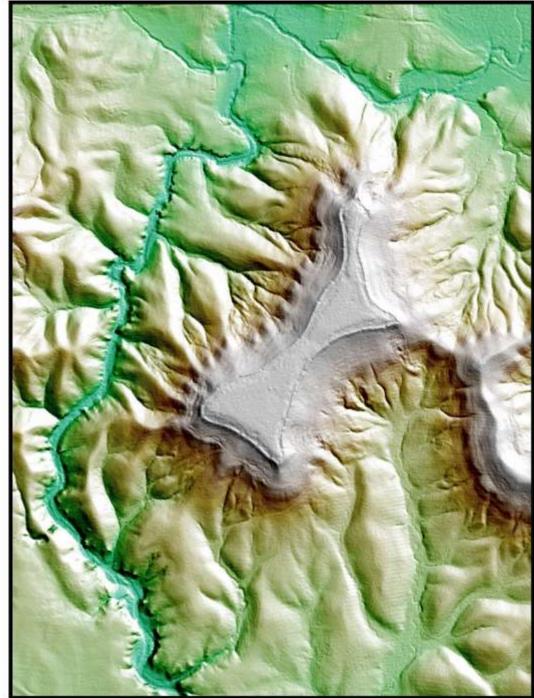


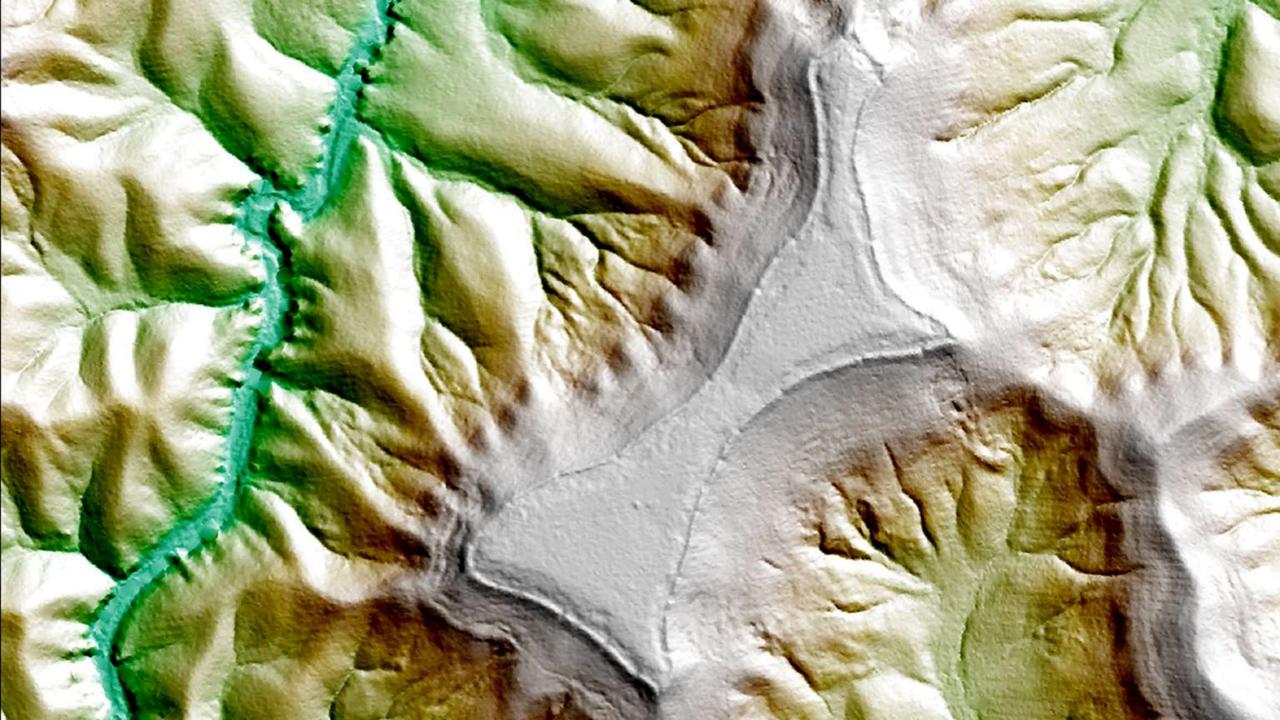










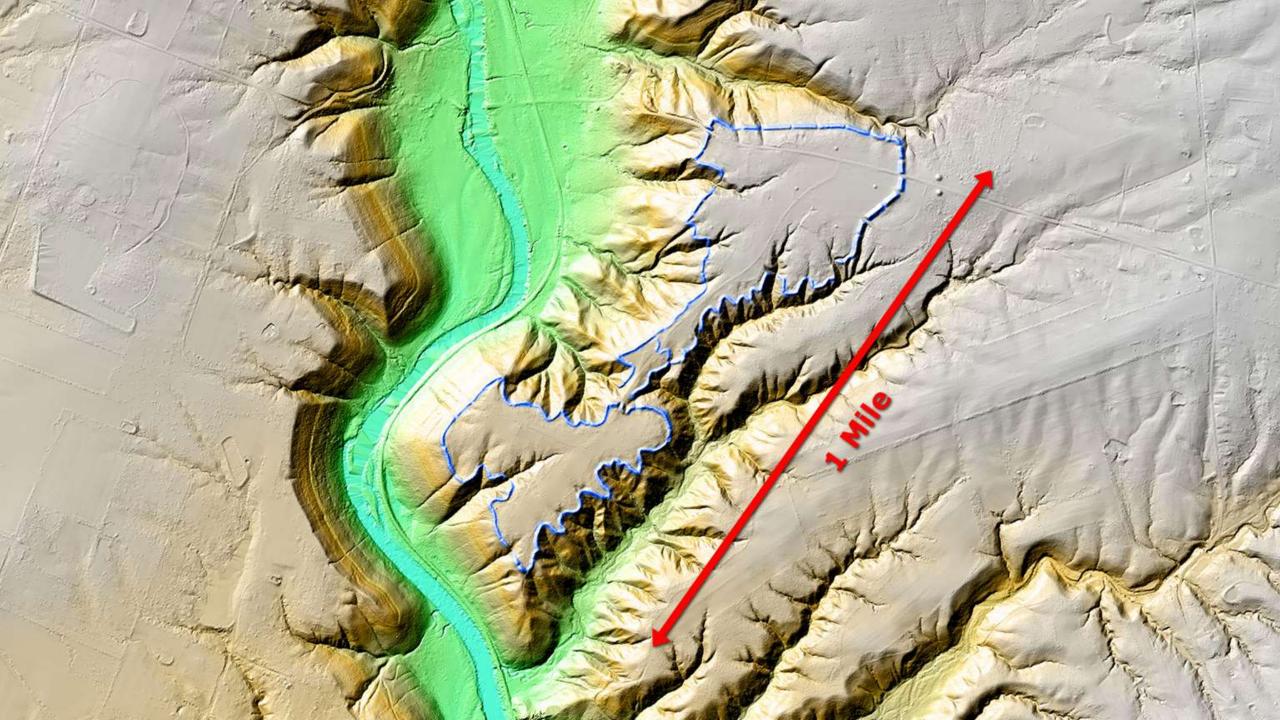


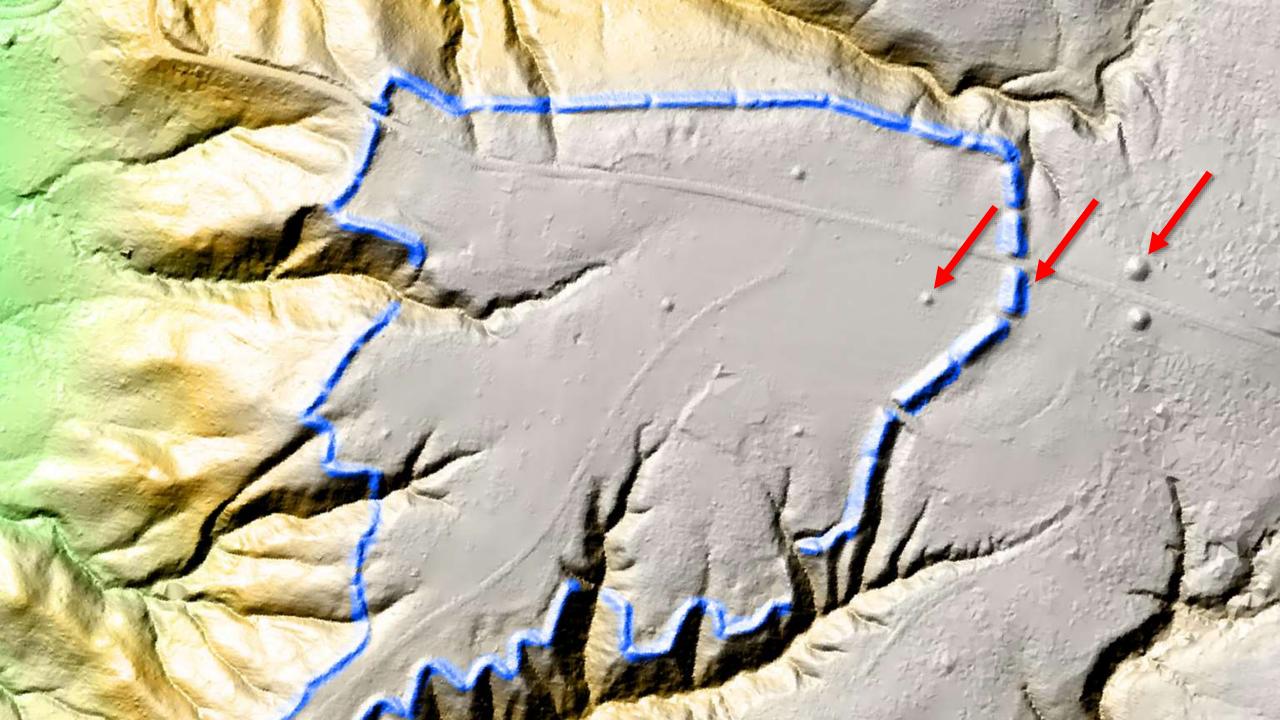
SCALE 525 ft. to the Inch. 525 feet Section c. Section d. Section ras 1350 R East Bank of the LITTLE MIAMI RIVER. Supplementary Plan A 33 miles above lincinnatti John Lack Surveyor

Fort Ancient Ohio

FACTS

- 100 Acre complex
- 18,000 Feet of earthen walls
- 553,000 Cubic yards of Soil
- Earthen Walls 20 feet high











Hopewell Mound Group



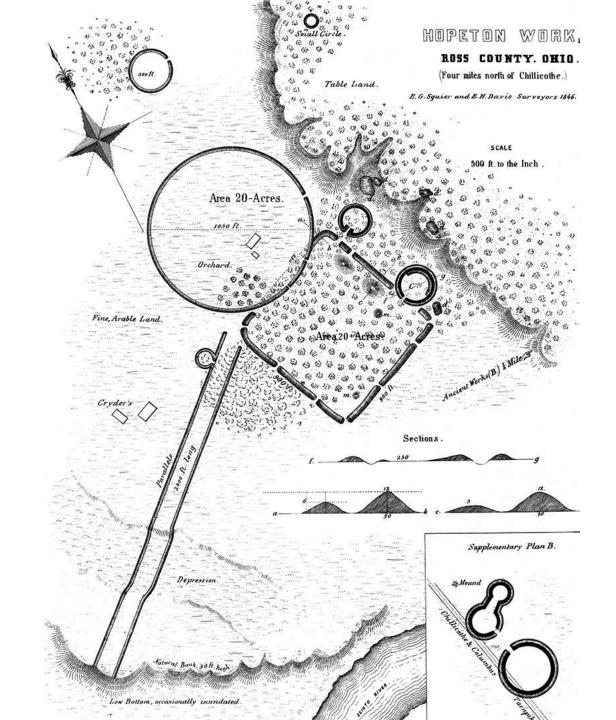




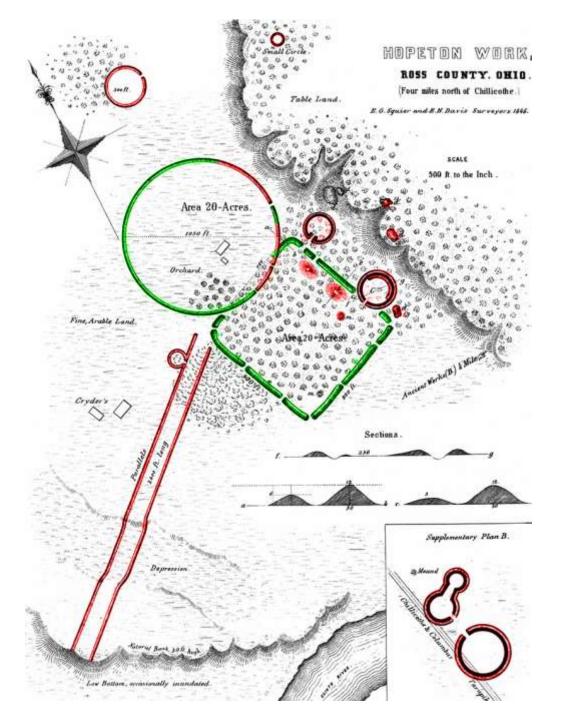




Hopeton Earthworks, Ohio







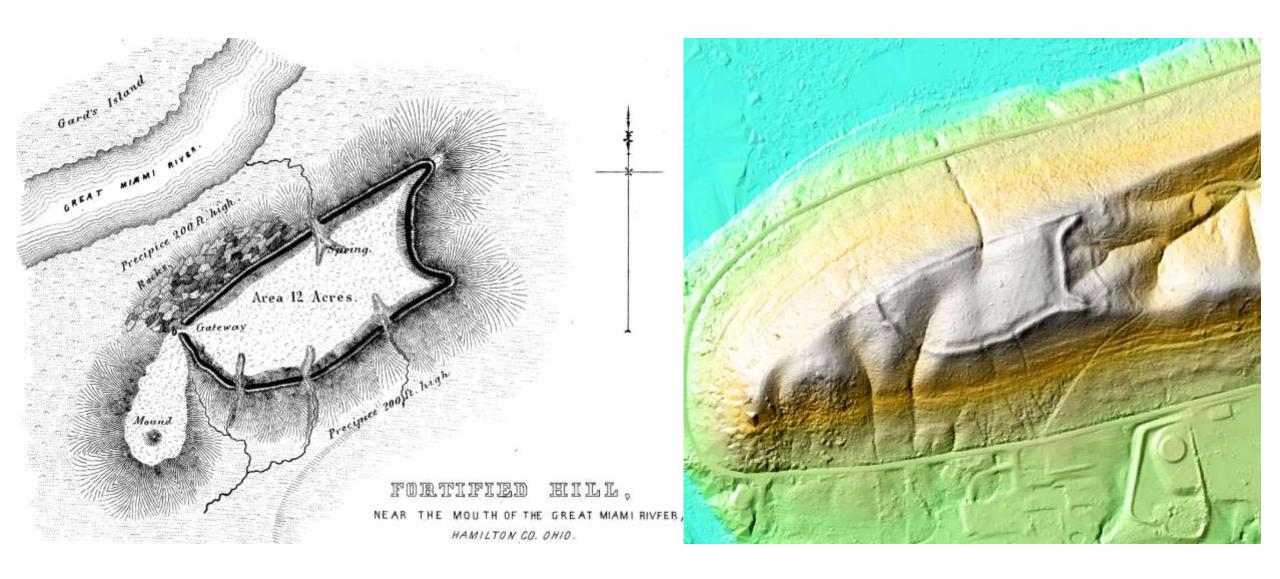


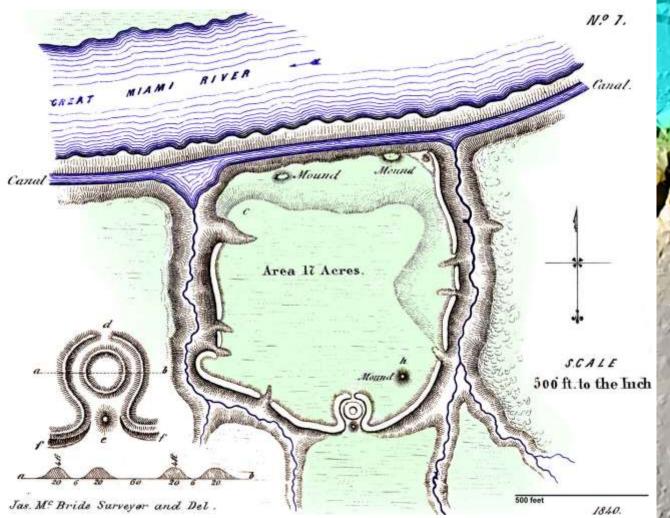
Visible in Lidar

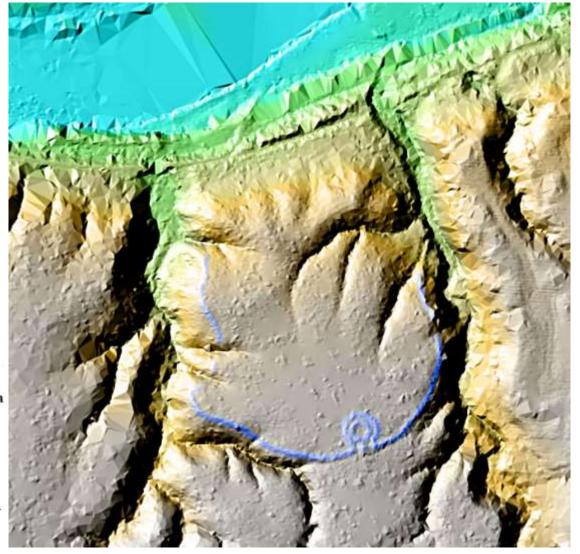


Destroyed

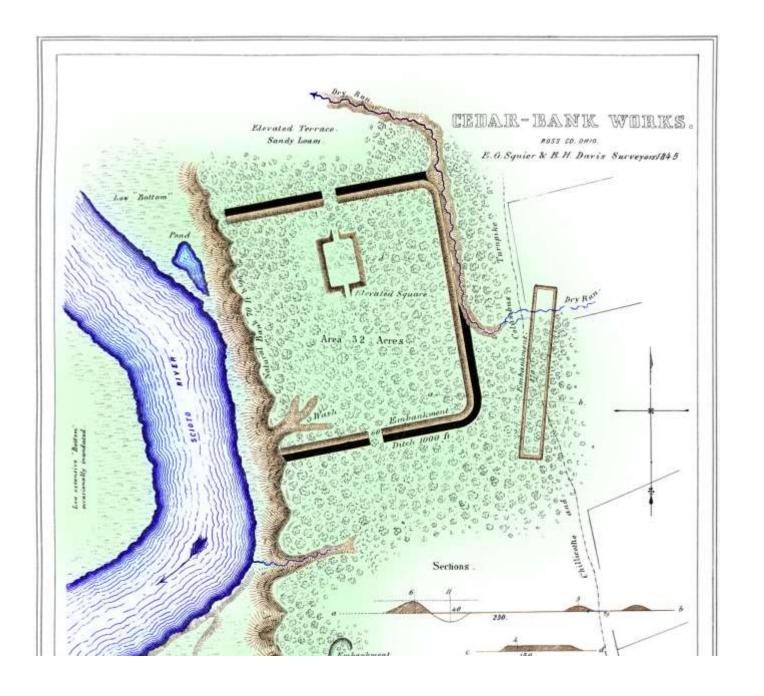
Miami Fort







Cedar Bank Earthworks



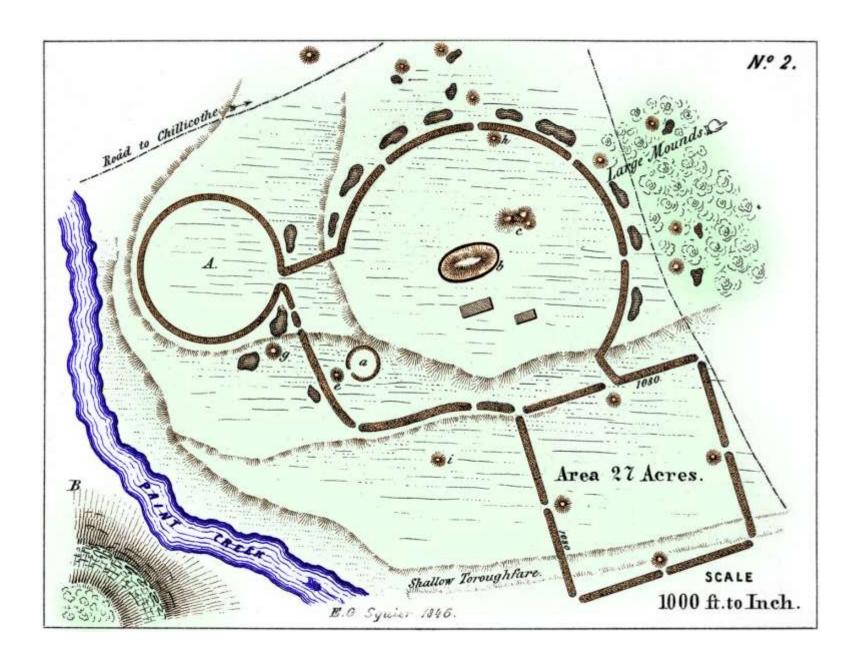
Cedar Bank Earthworks





Paint Creek Valley

EXHIBITING A SECTION OF SIX MILES of the PAINT CREEK VALLEY, with its Ancient Monuments. Chillicothe Turnprike BOURNVILLE. Mound Constructed by E.G. Squier 1847.



Seip Mound Complex

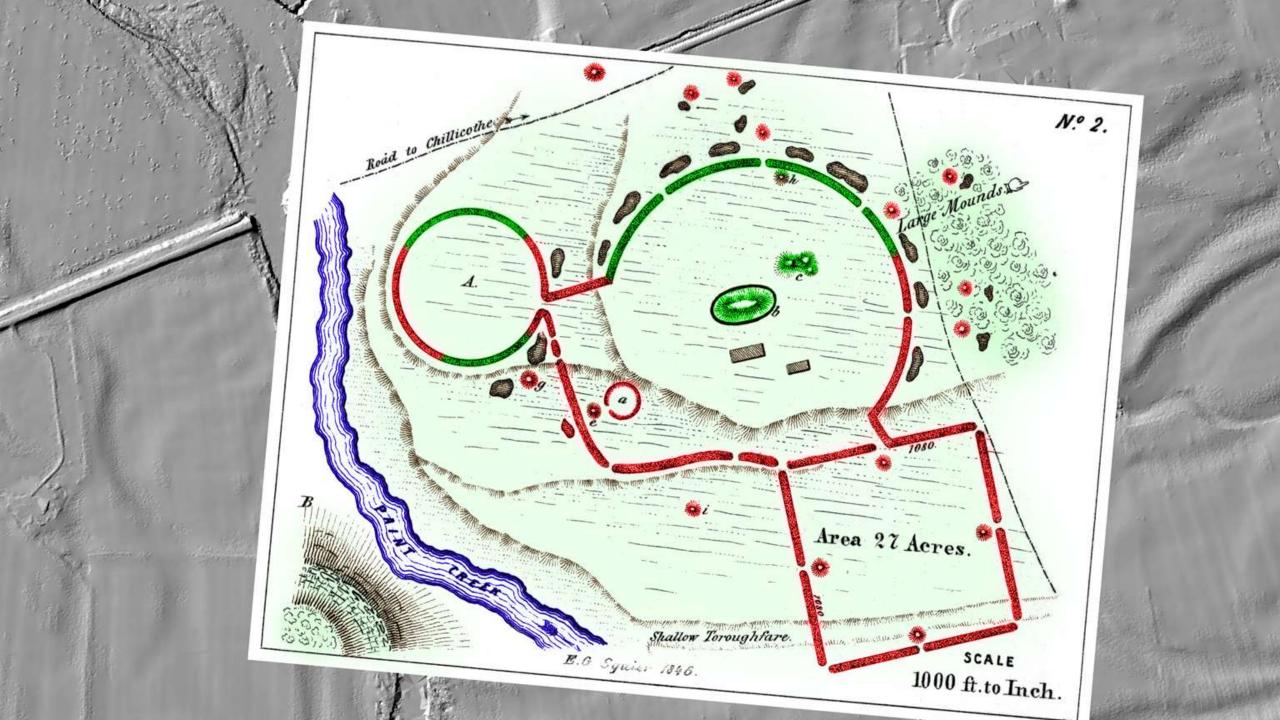


Seip Mound Complex

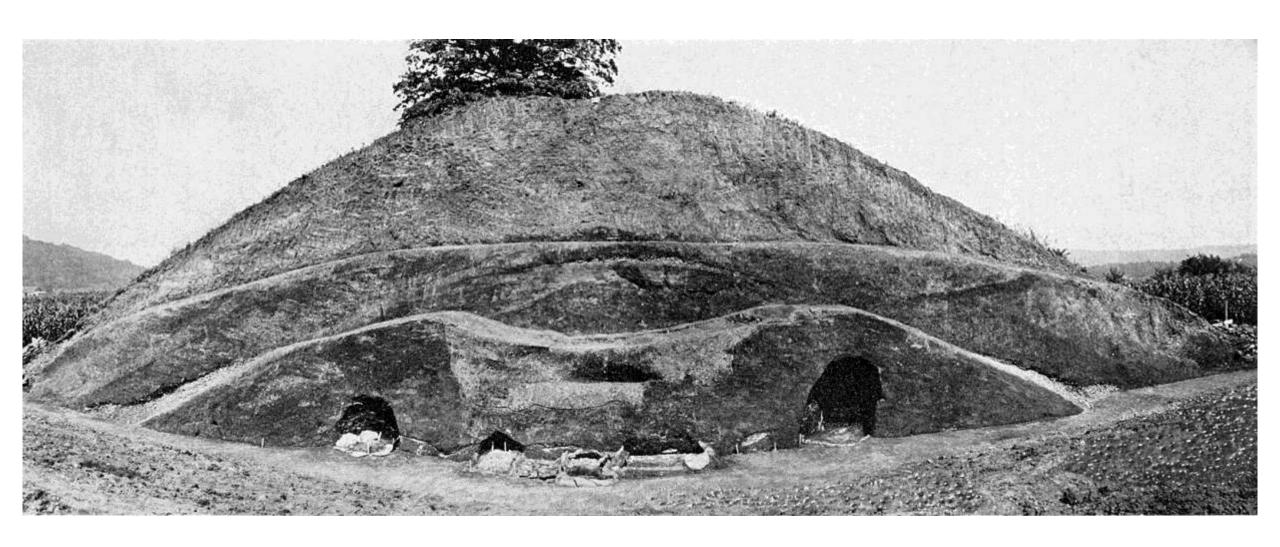
- Seip Mound is 240 feet long, 130 feet wide and 30 feet high.
- It is the 2nd largest Hopewell mound.
- Surrounded by a large 121 acre earthwork complex with 10,000 feet of embankment walls.
- Walls originally 10 feet high and 50 feet thick at the base.







Seip Mound During Excavation



Seip Mound Artifacts



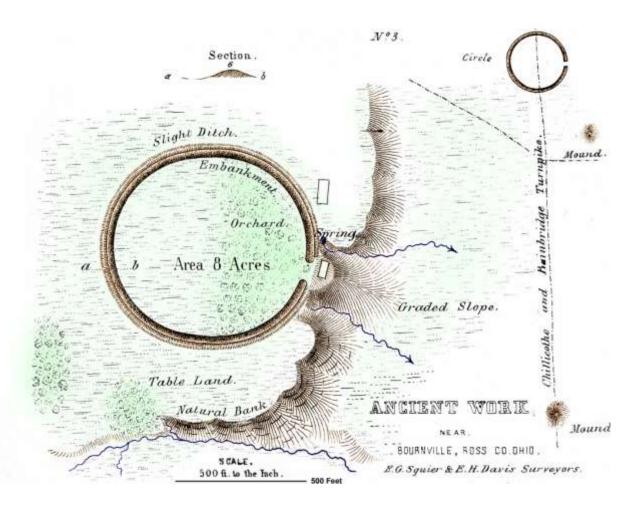




Paint Creek Valley

EXHIBITING A SECTION OF SIX MILES of the PAINT CREEK VALLEY, with its Ancient Monuments. Chillicothe Turnprike BOURNVILLE. Mound Constructed by E.G. Squier 1847.

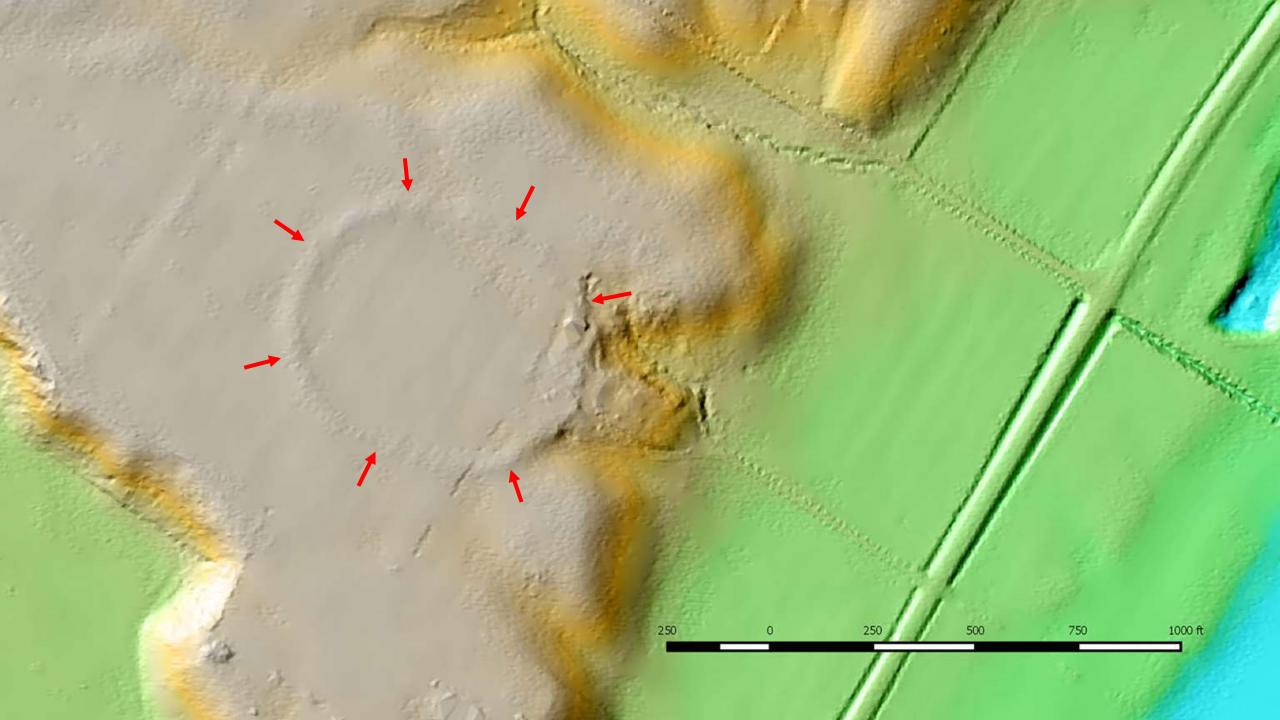
Ancient Work Near Bourneville, Ross County, Ohio.

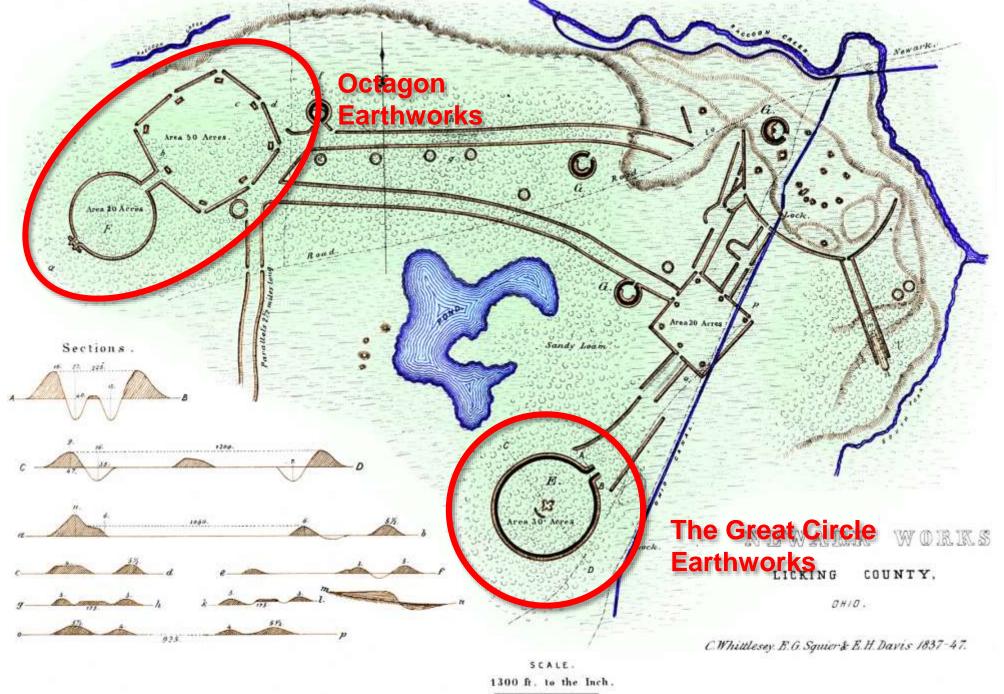


"The small work here figured is one of the most beautiful in the State of Ohio. It consists of a wall of earth, eight or ten feet in height, with a broad and shallow exterior ditch. It has a gateway one hundred and twenty feet wide, leading into it from the south-west...

This work is admirably preserved, and is remarkable as being the only circular work at present known, which has its ditch exterior to the walls."





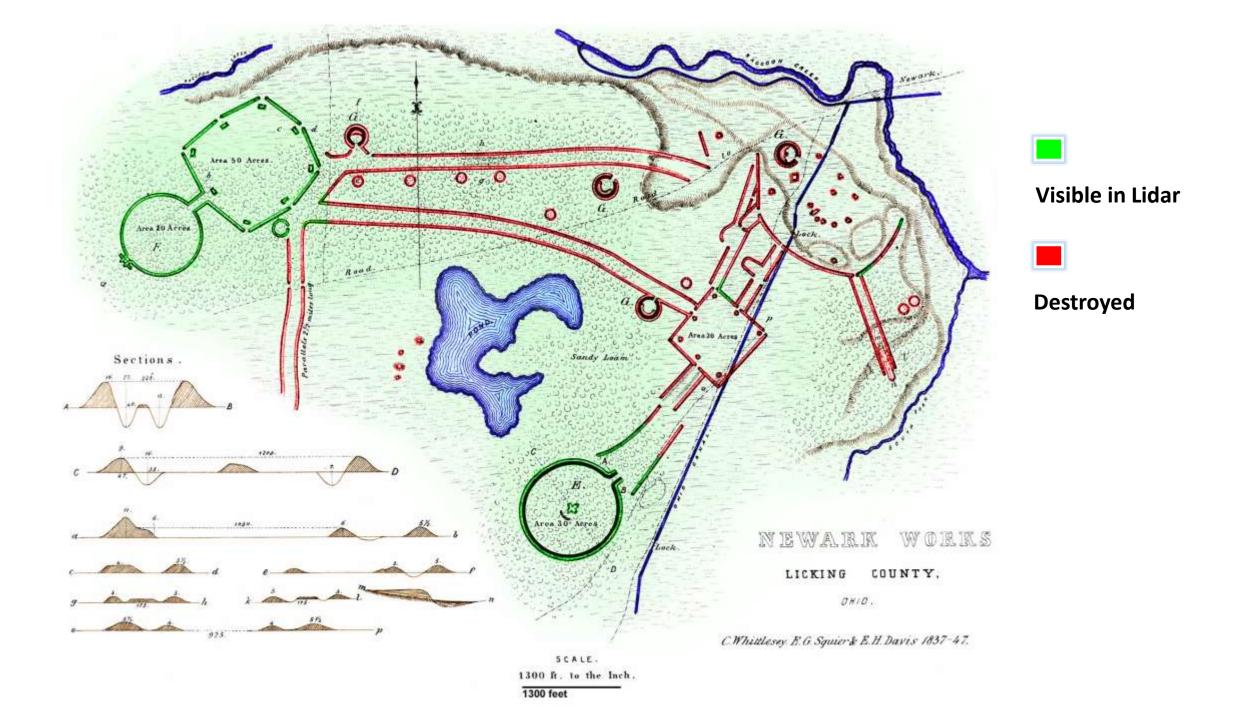


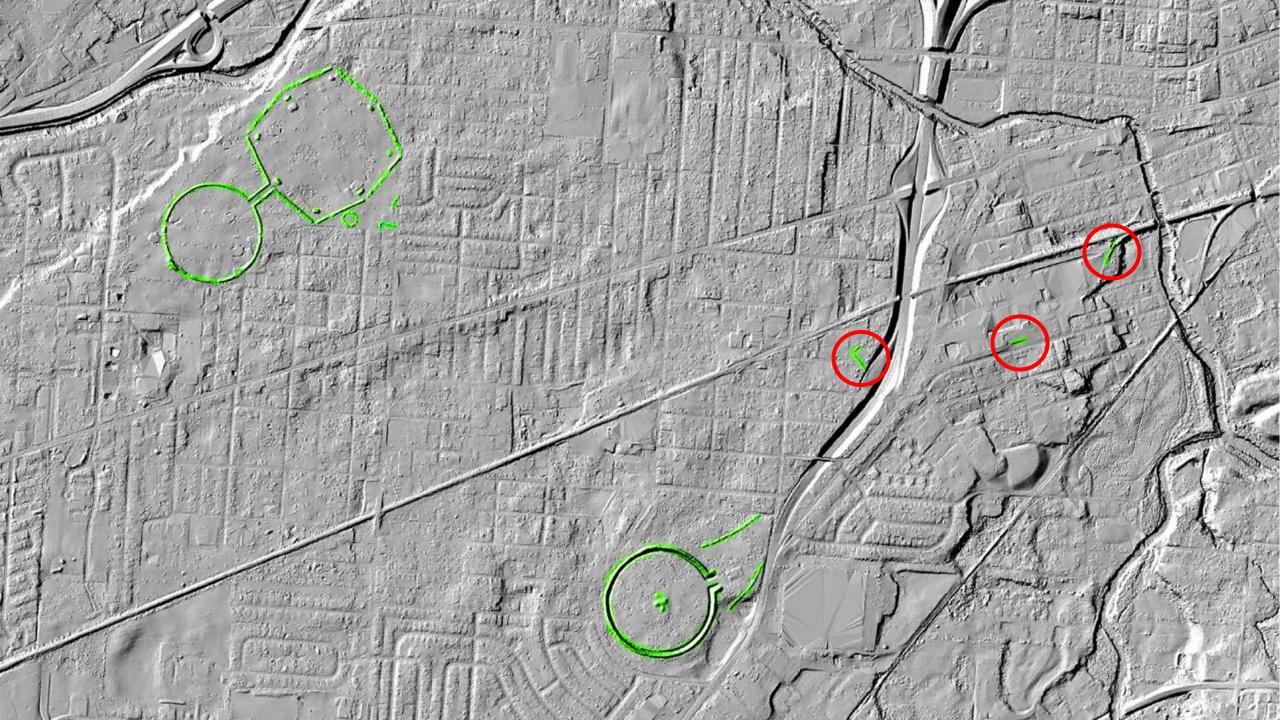
1300 feet

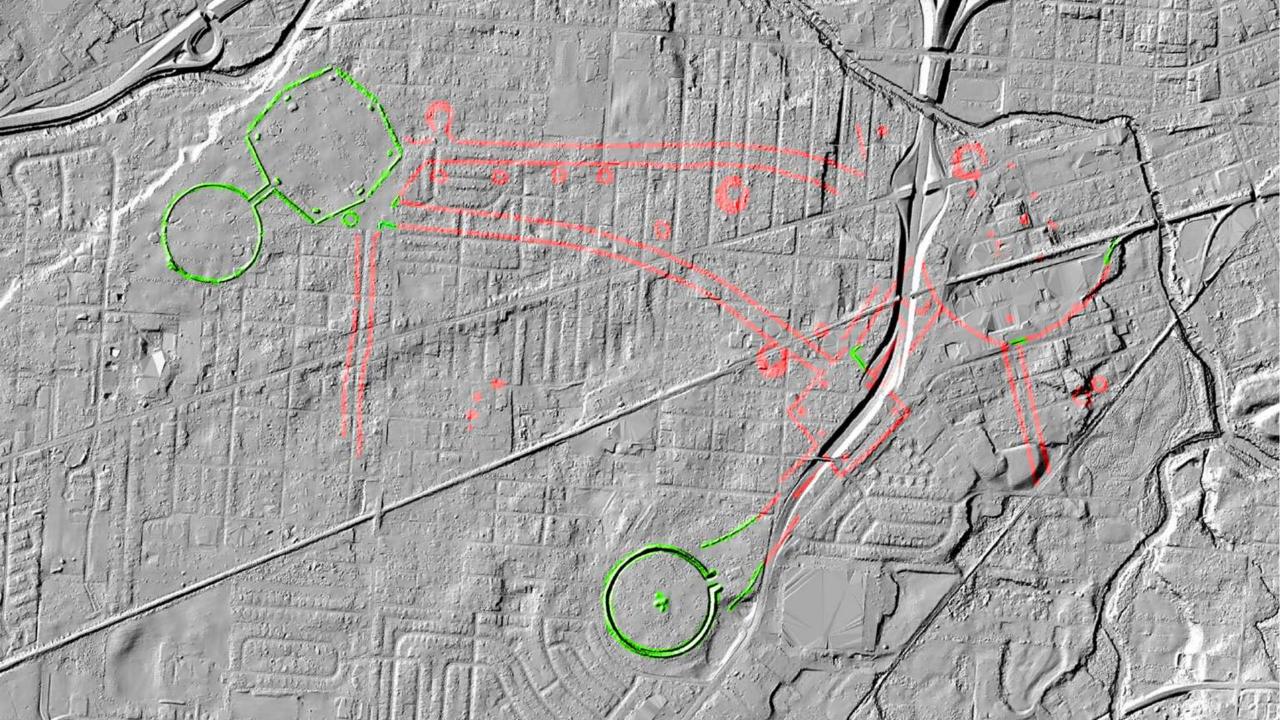


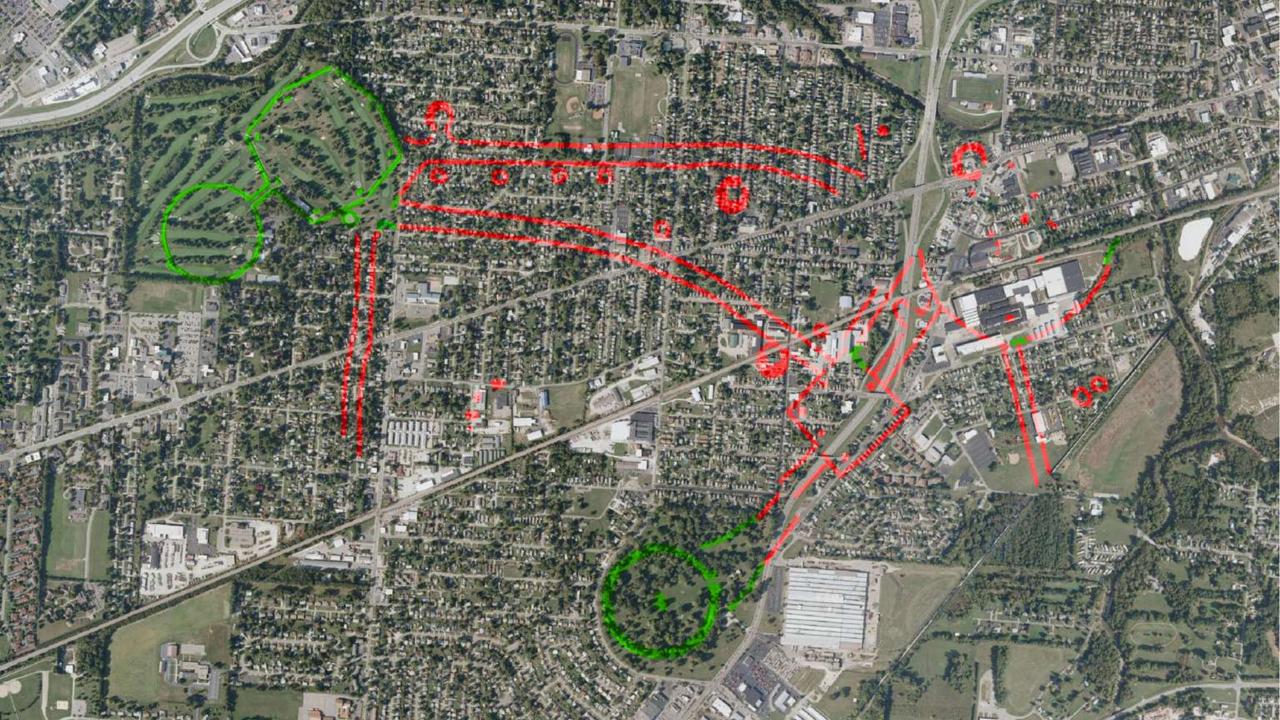


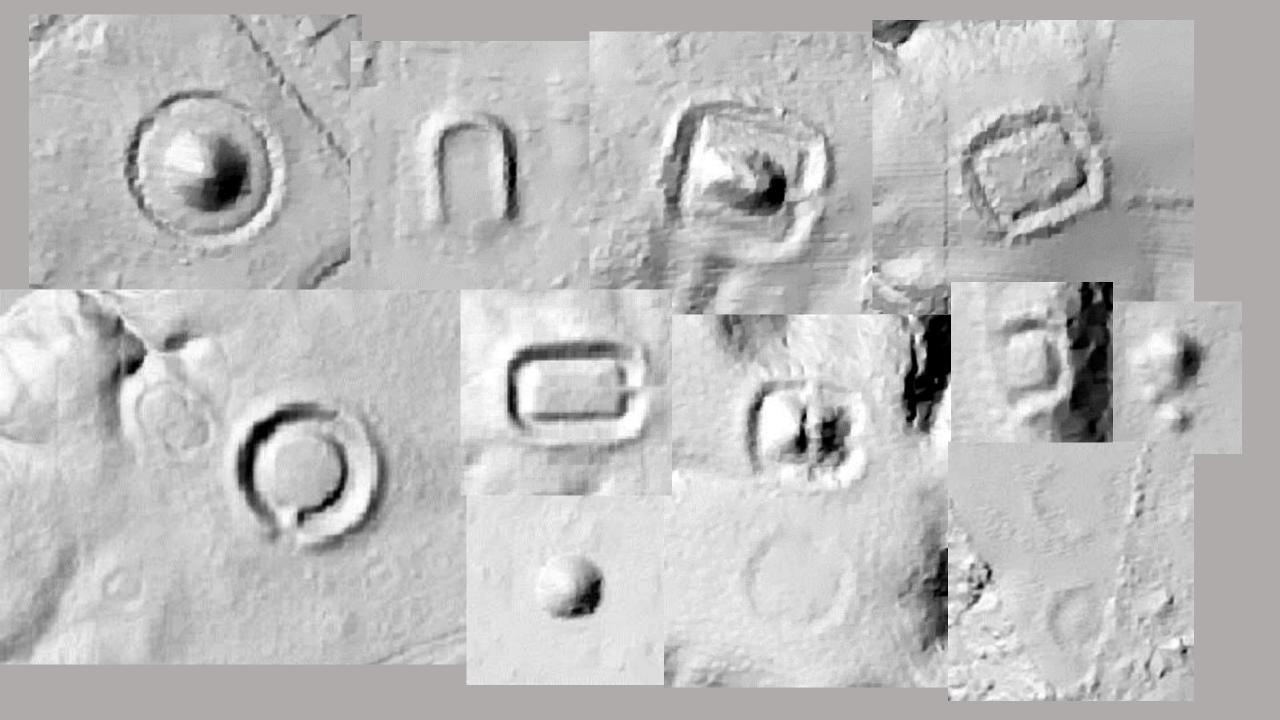












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Ephraim George Squier



History of Ephraim George Squier

Ephraim George Squier (1821-1888) archaeologist, author, businessman, editor, and diplomat was born in Bethlehem, New York, June 17, 1821. As a young man he published the village newspaper and then later became the editor of several publications...



Ancient Monuments of the Mississippi Valley

This is a reproduction of E.G. Squier and E.H. Davis' monumental work Ancient Monuments of the Mississippi Valley published in the Smithsonian Contributions to Knowledge, Vol. I. It provides an invaluable glimpse of a long lost culture.



Aboriginal Monuments of the State of New York

This is a reproduction of E.G. Squier's monumental work *Aboriginal Monuments of the State of New York* published in the *Smithsonian Contributions to Knowledge*, Vol. II. It provides an invaluable glimpse of a long lost culture.

E.G. Squier | Ancient Monuments | Table of Contents | All Plates |



ANCIENT MONUMENTS

OF

THE MISSISSIPPI VALLEY



ANCIENT WORKS , MARIETTA, OHIO .

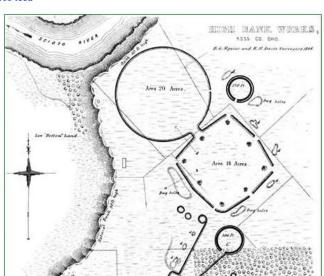
PLATE XVI.38

High Bank Works, Ross County, Ohio.



This is a Lidar Image of High Bank Works as it appears today. Due to constant cultivation since the 1800s, only the main circle and octogon can be seen today. The rest of the site has been destroyed. When this site was surveyed in 1846, the walls were between 11 and 12 feet high with a base thickness of 50 feet. Today the walls are less than three feet high and are spread out for more than 100 feet.

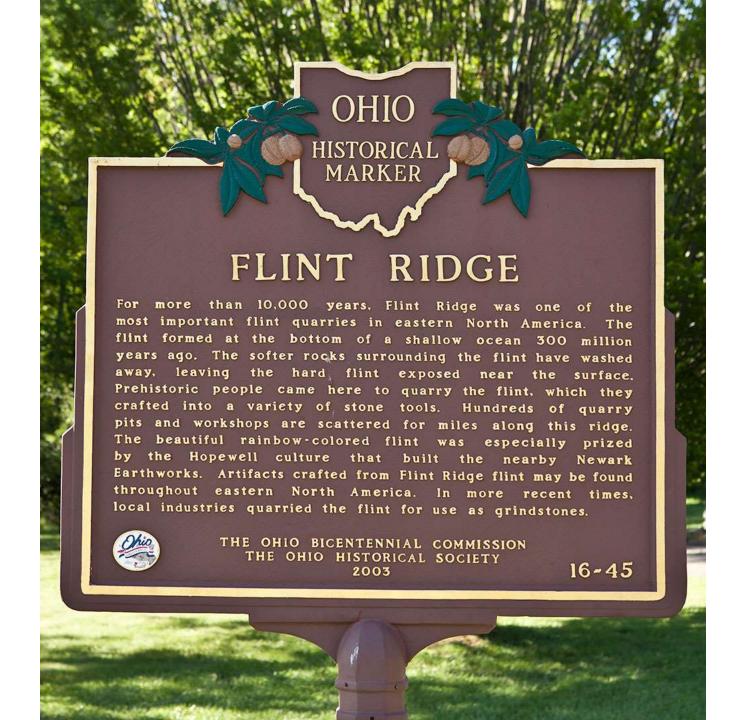
THE beautiful group here represented is situated on the right bank of the Scioto river, five miles below the town of Chillicothe, near the road from that place to Jackson. It occurs at a place where the river has cut its way up to the third terrace, which in consequence here presents a bold bank, rising seventy-five or eighty feet above the water. This point is generally known as the "High Bank," and gives its name to these works. The third terrace here spreads out into a beautiful, level plain of great extent. The principal work consists of an octagon and a circle; the former measuring nine hundred and fifty feet, the latter ten hundred and fifty feet, in diameter. The coincidences, in the dimensions, between this and the "Hopeton Works," (Plate XVII,) will be at once observed. The octagon is not strictly regular; although



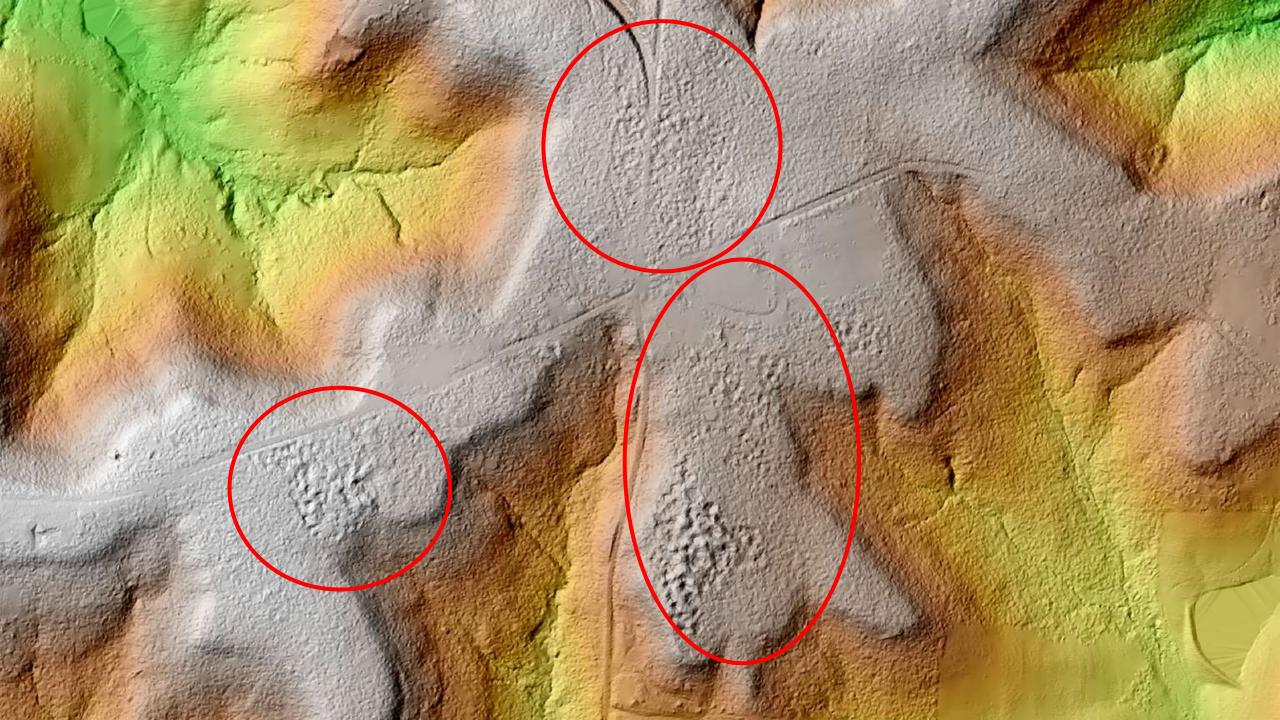
Flint Ridge

- One of the most important Native American flint quarries.
- Hundreds of quarry pits and workshops.
- Rainbow-colored flint especially prized by the Hopewell culture.
- Artifacts from Flint Ridge found throughout eastern North America.











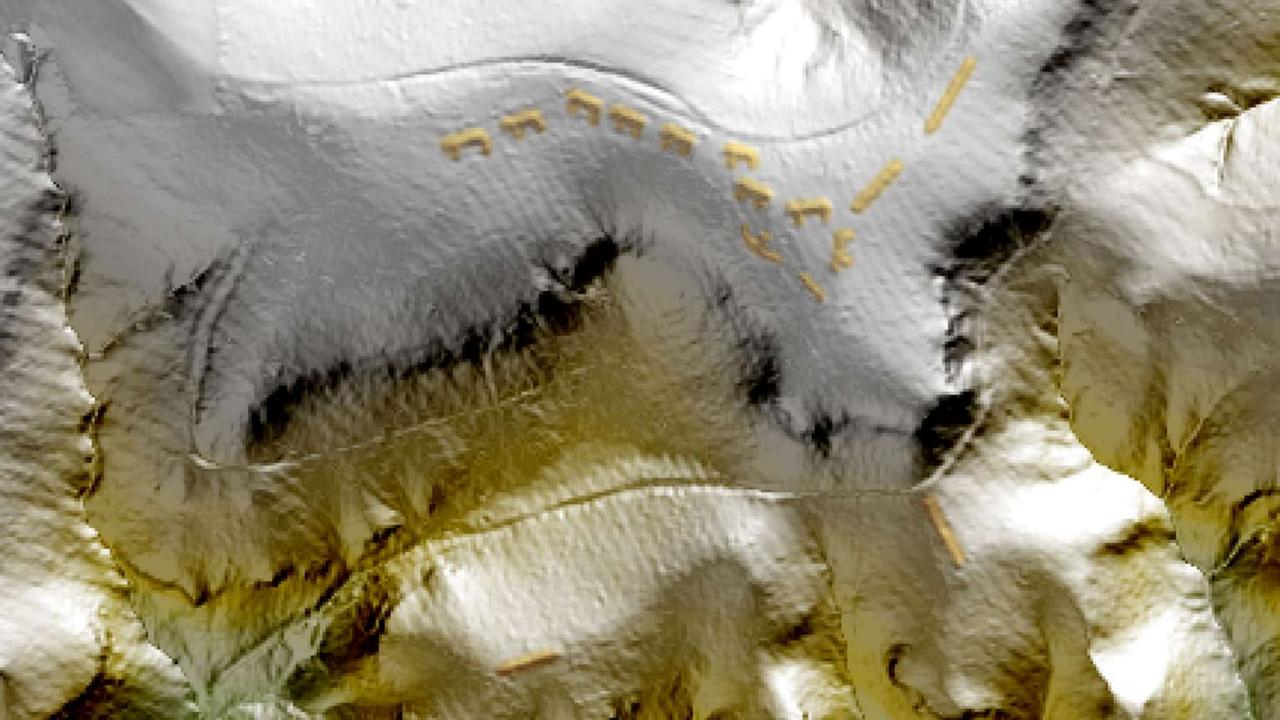


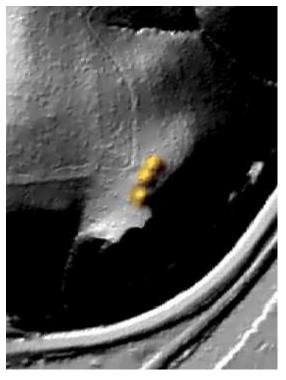






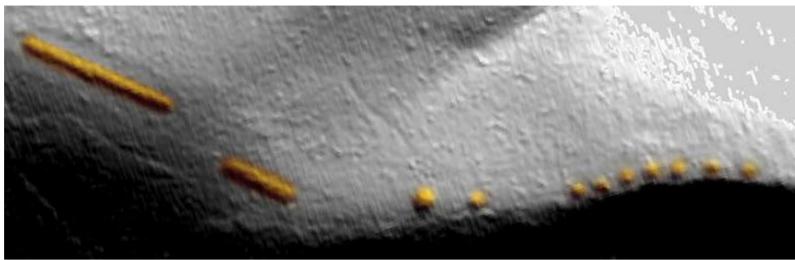


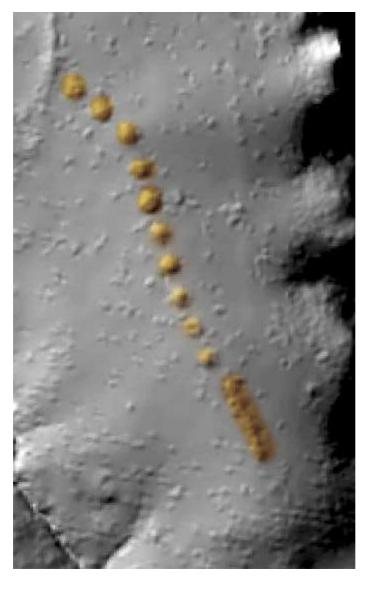




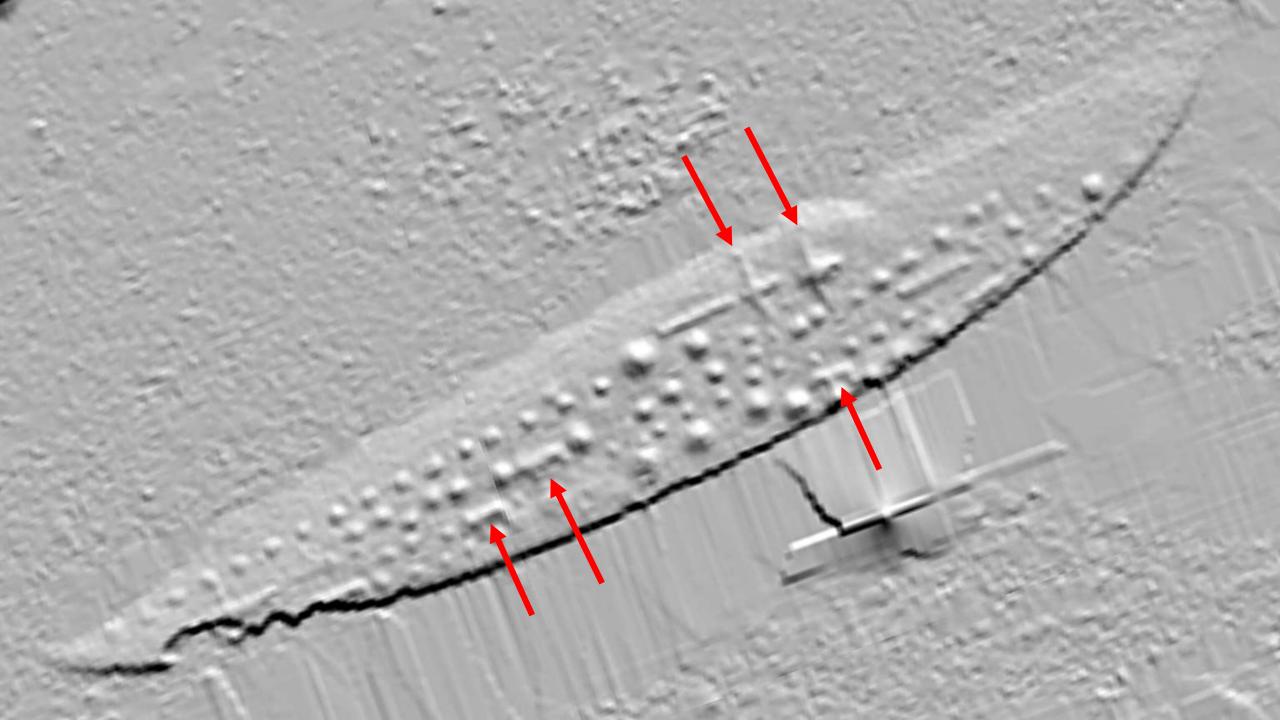




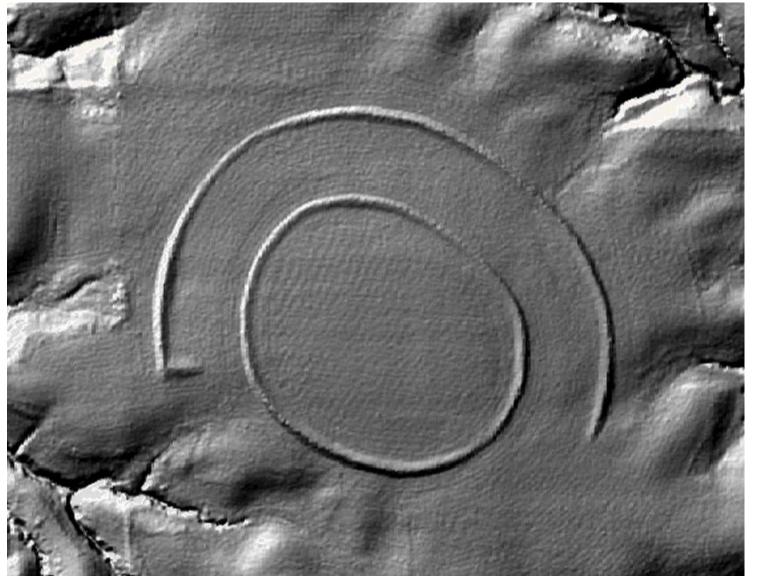








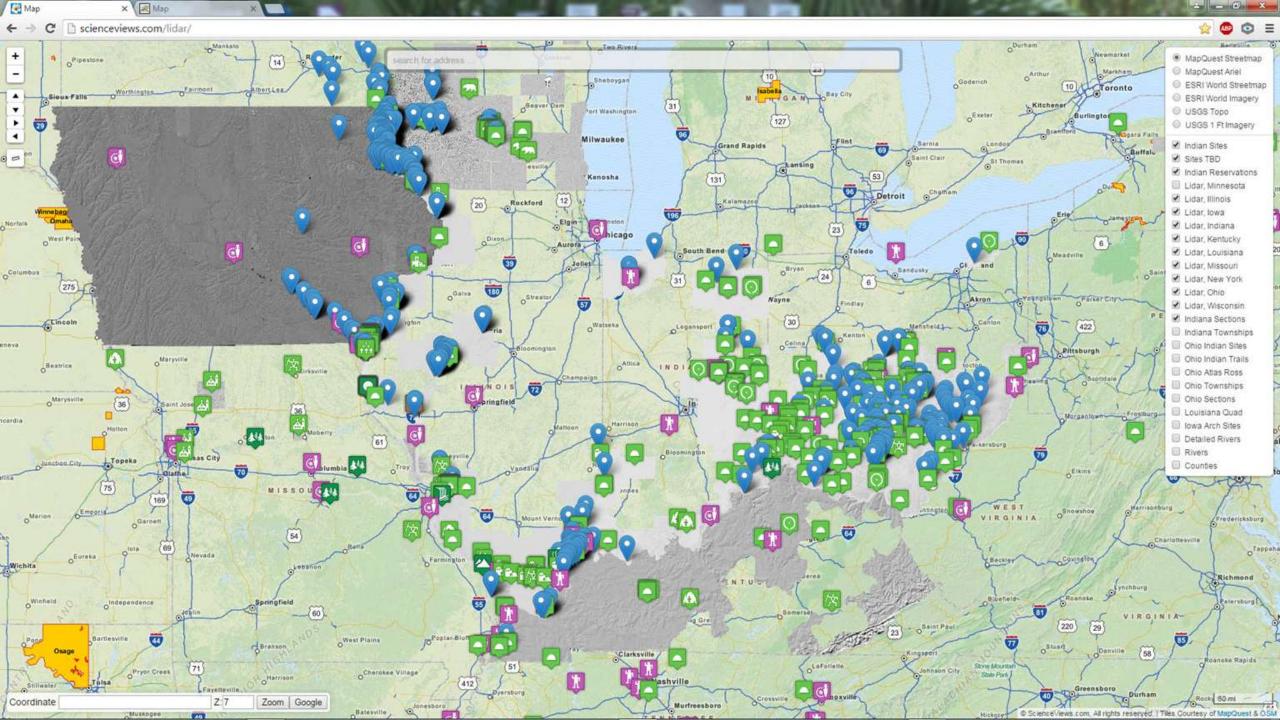
Malchow Mounds Preserve

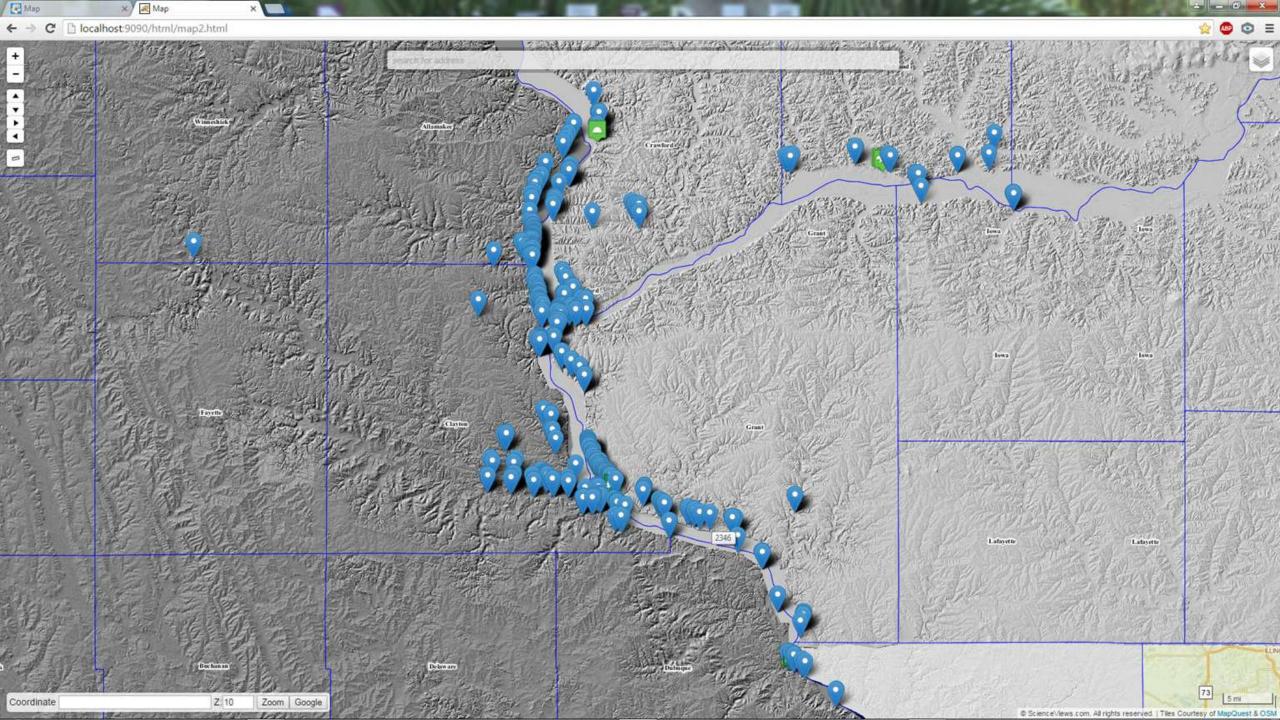


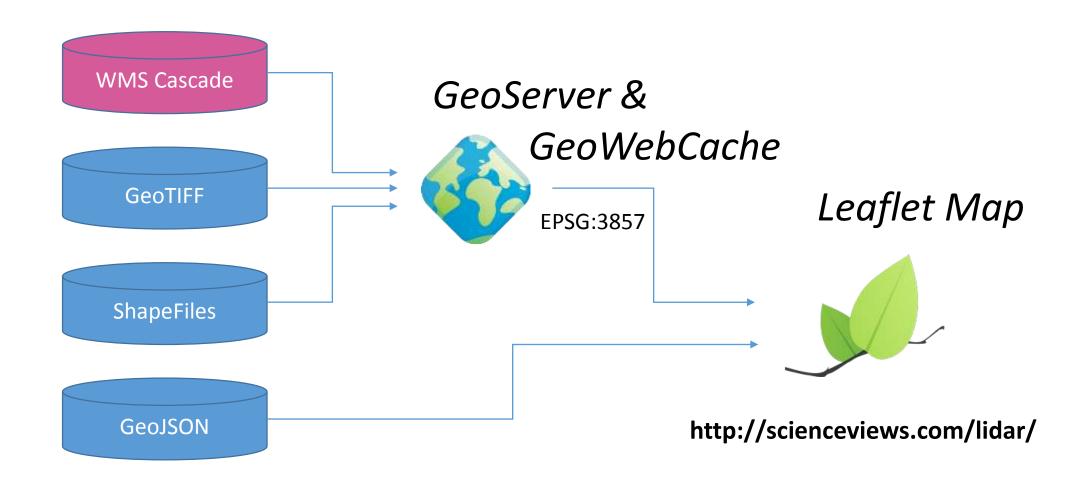


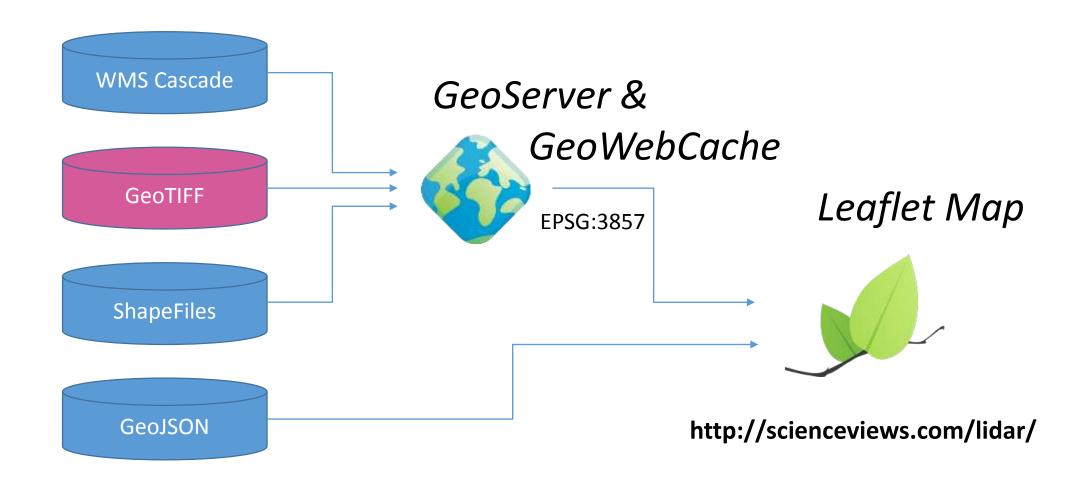
Searching For Earthworks

- Used PostGIS database tables for.
 - Verified archaeological sites.
 - Likely archaeological sites.
- Compare archaeological publications with hillshade to locate earthworks.
- Used brute force searching for earthworks in likely locations.
- Wrote a QGIS plugin to zoom to, and snapshot coordinates in the format of "latitude, longitude" to seamlessly work with Google Earth, Google Maps, and my own map.









GeoServer ImageMosaic GeoTIFF Data Store

 Usually states provide county DTM/DEM data derived from Lidar.



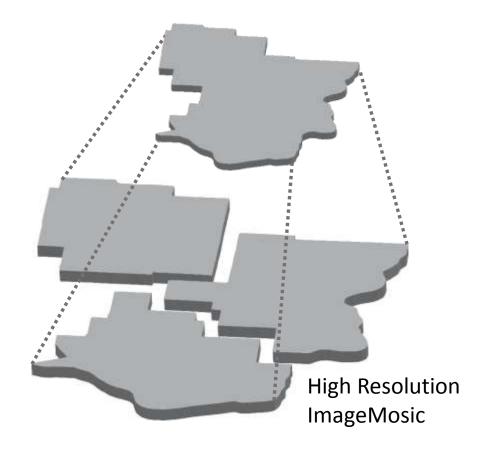
 Use QGIS to create a Hillshade of each county using EPSG:3857.

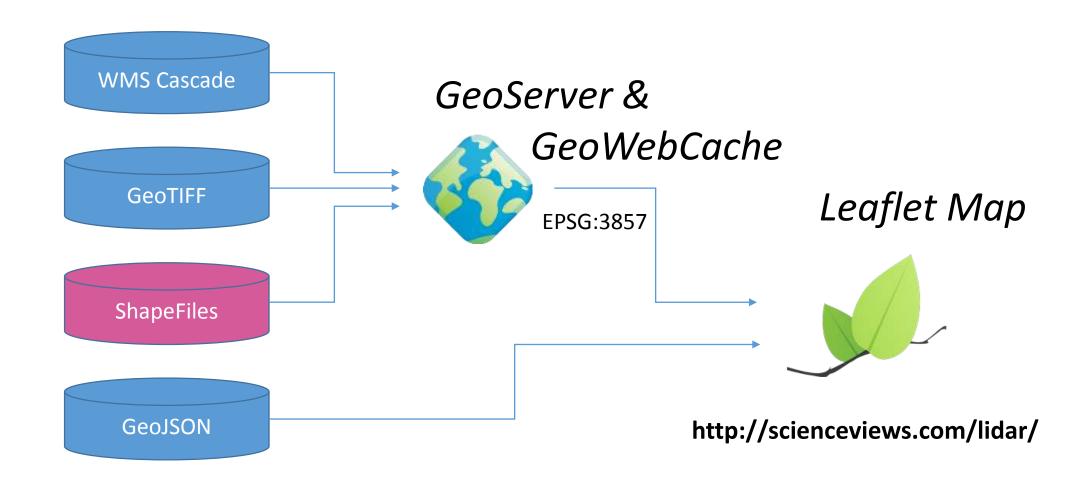


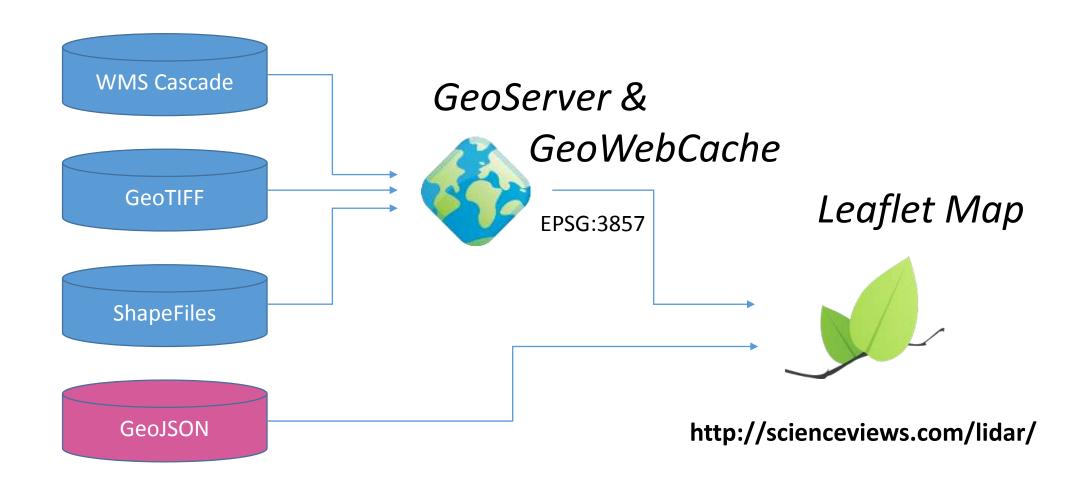
 Create a GeoServer ImageMosaic for each state with county hillshade GeoTIFFs.



 Use GDAL to create an overview image of all the counties for low resolution viewing. Low Resolution
Overview GeoTIFF







Results

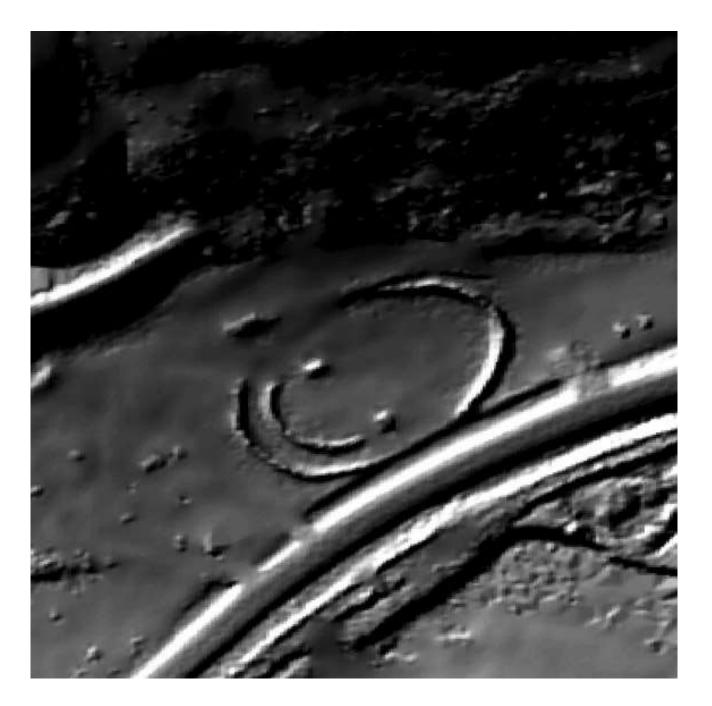
| State | Verified Archaeological Sites | Likely Archaeological Sites |
|-------------------|-------------------------------|-----------------------------|
| Illinois | 132 | 185 |
| Indiana | 63 | 49 |
| Iowa | 22 | 611 |
| Ohio | 143 | 170 |
| Wisconsin | 42 | 435 |
| | | |
| All State Summary | 647 | 1516 |

What is this?



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