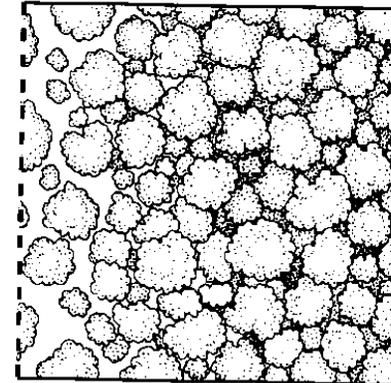
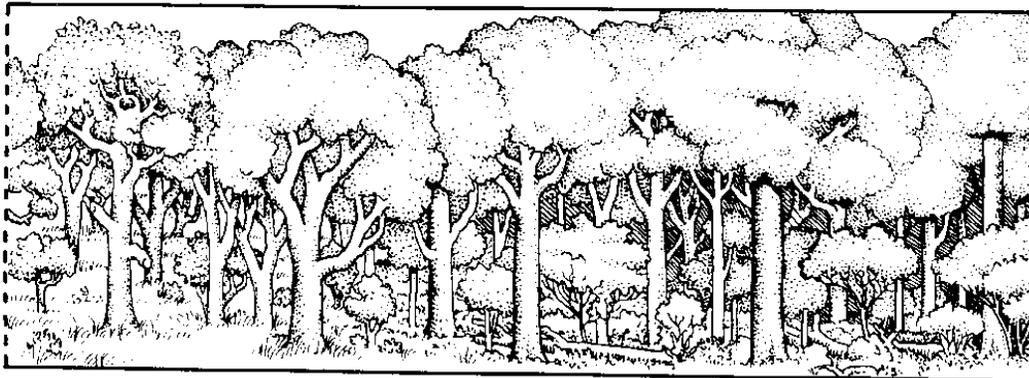


Forests



D. Forest: Closed canopy—may be of fire tolerant species (oak & pine) or fire intolerant species (maple, beech, etc.) on infrequently burned sites. Shade tolerant species of understory trees and shrubs are present. Herbs are mostly spring ephemerals (dormant in summer) or are scattered and thin.



Mesic Hardwood Forest



Dutchman's Breeches
(*Dicentra cucullaria*)



Round-lobe Hepatica
(*Anemone americana*)

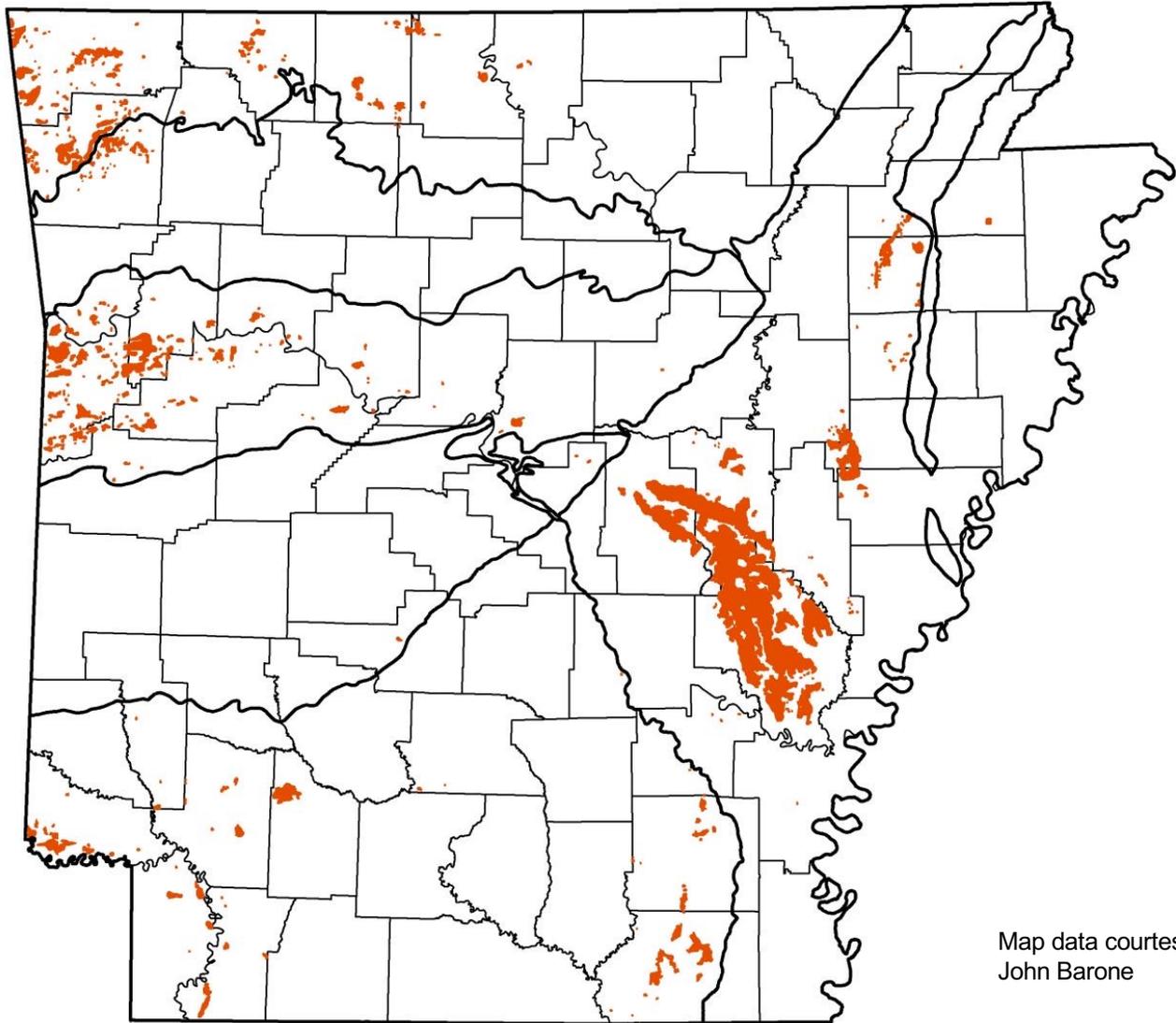


Harbinger-of-Spring
(*Erigenia bulbosa*)

Photos by John Pelton

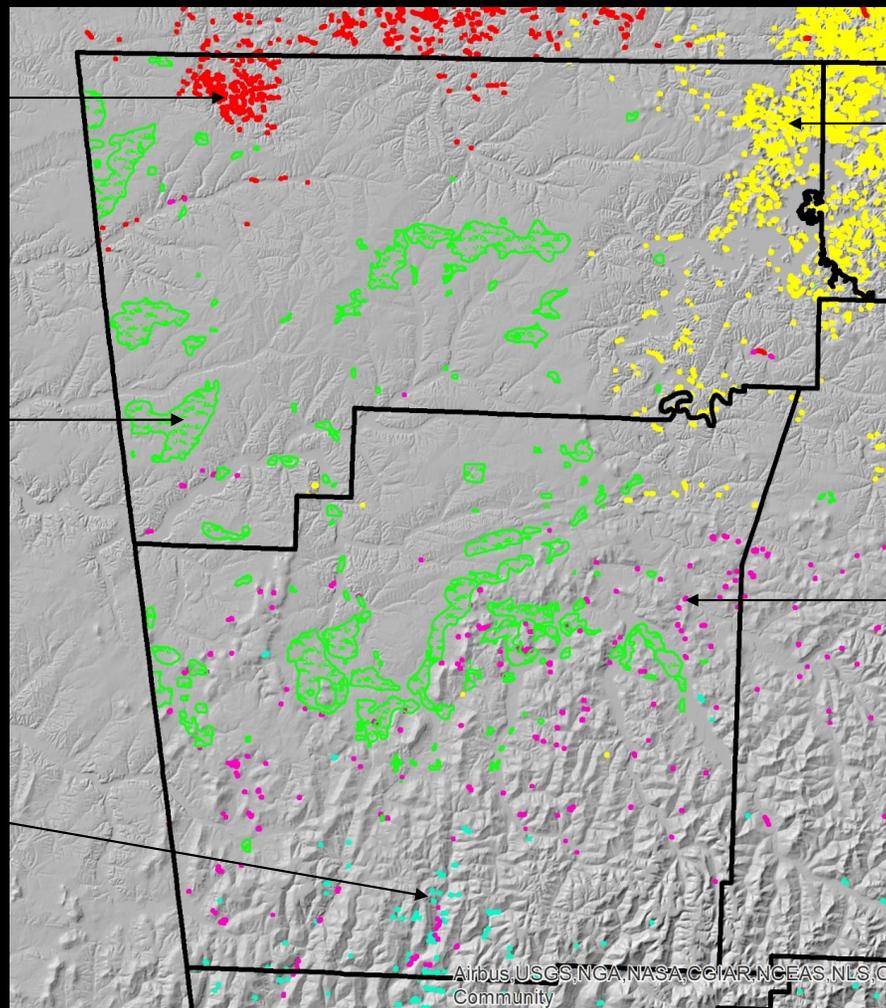
“Is this a Forest Site or a Woodland Site?”

- Where is it?
- What is the landform?
- What is the slope and aspect?
- What is the hydrology?
- What is the surrounding landscape like?
- What was here historically?
- What trees are present?
- What shrubs are present?
- What grasses and forbs are present?

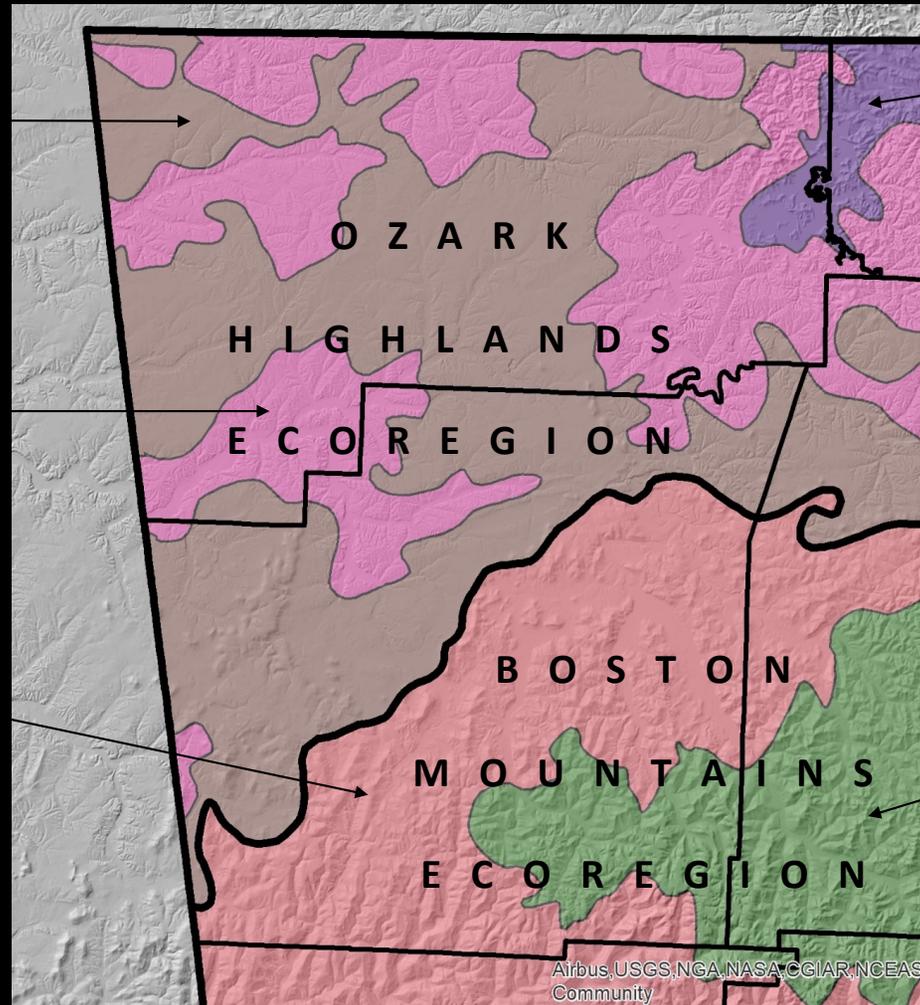


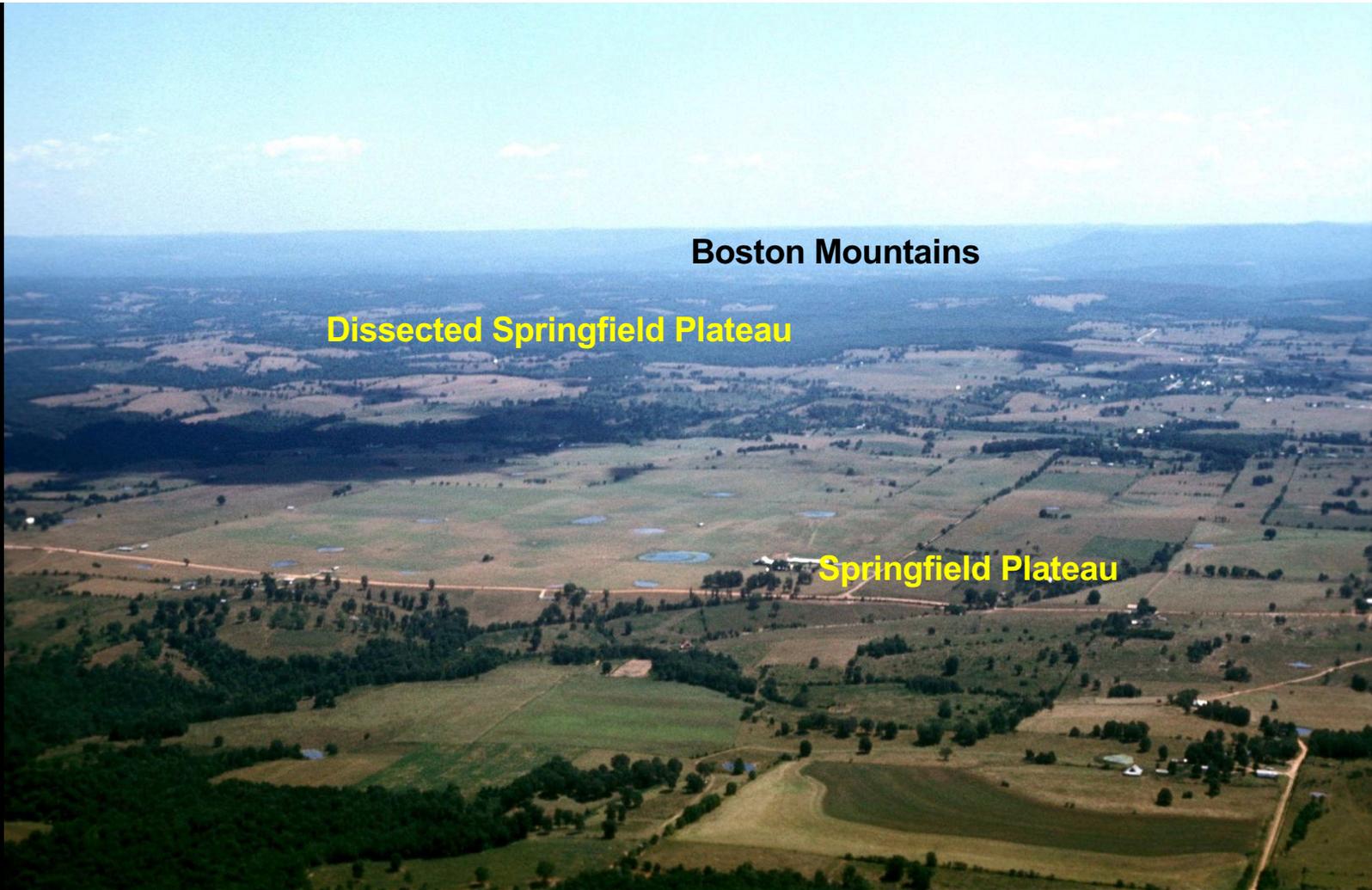
Map data courtesy of
John Barone

County NHIs – Prairie & Glade Mapping



County NHIs – Ecoregions





Boston Mountains

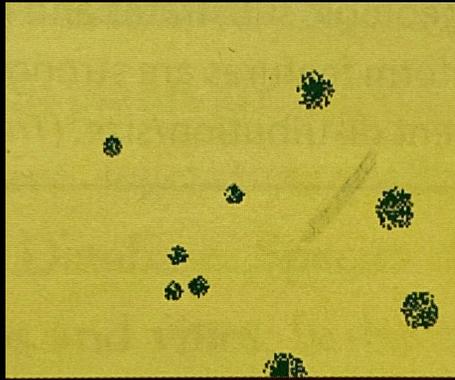
Dissected Springfield Plateau

Springfield Plateau

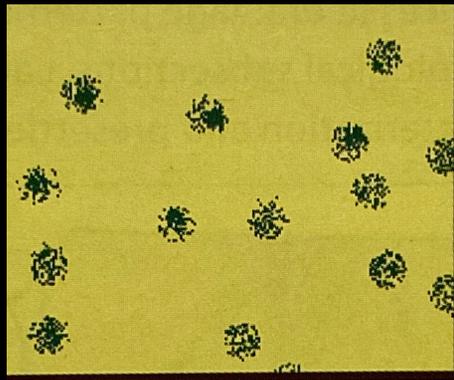


Boston Mountains

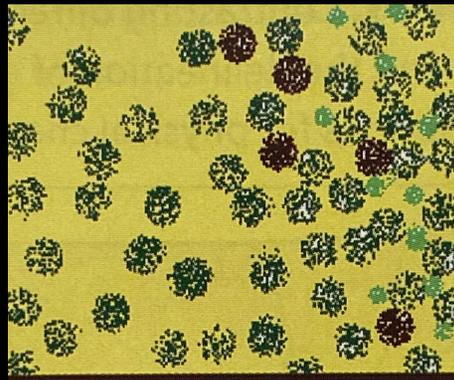
Springfield Plateau



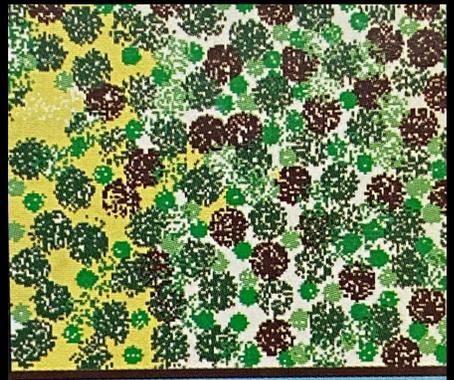
Plains
Prairie



Dissected plains
Savanna

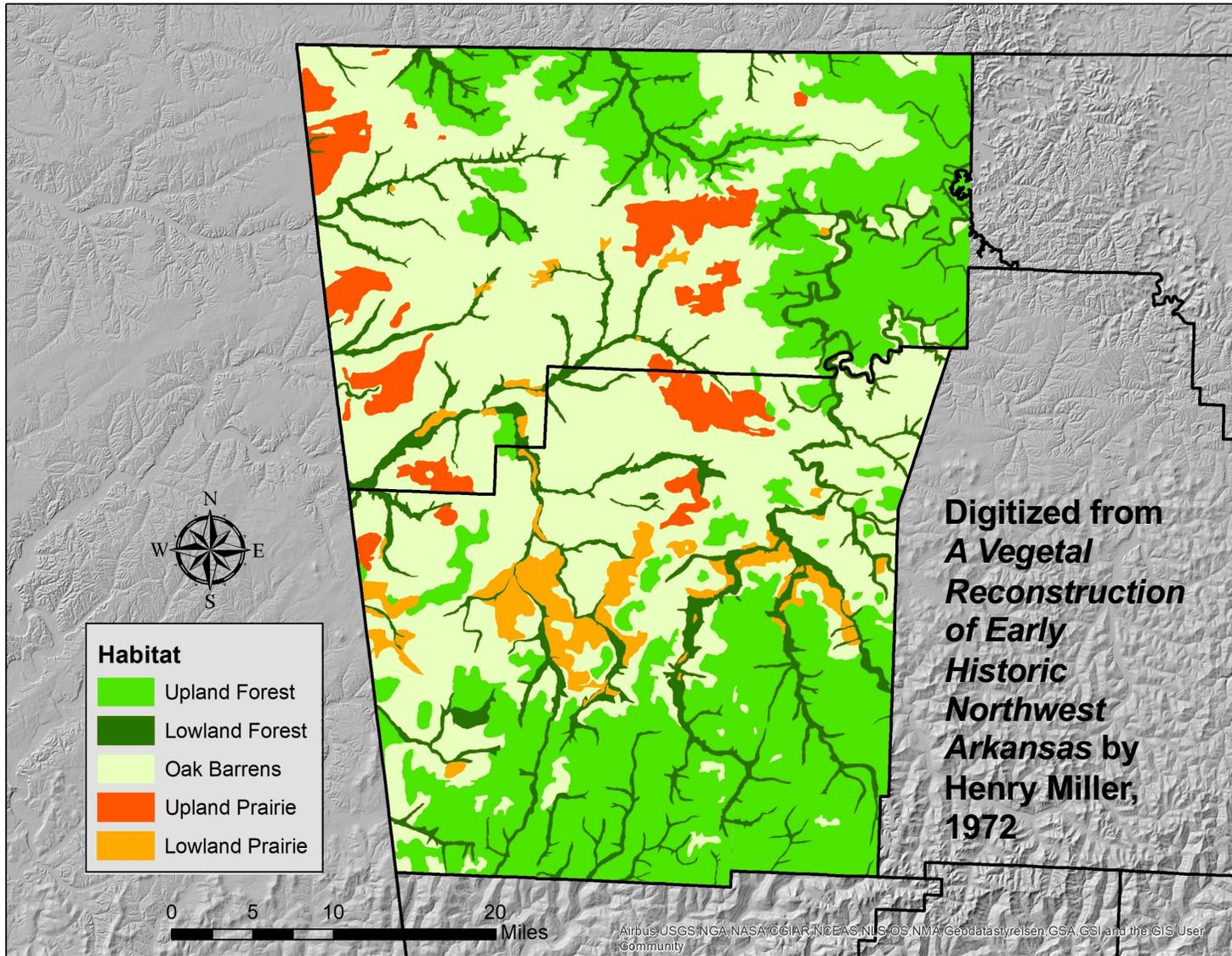


Hills
Open woodland Closed woodland

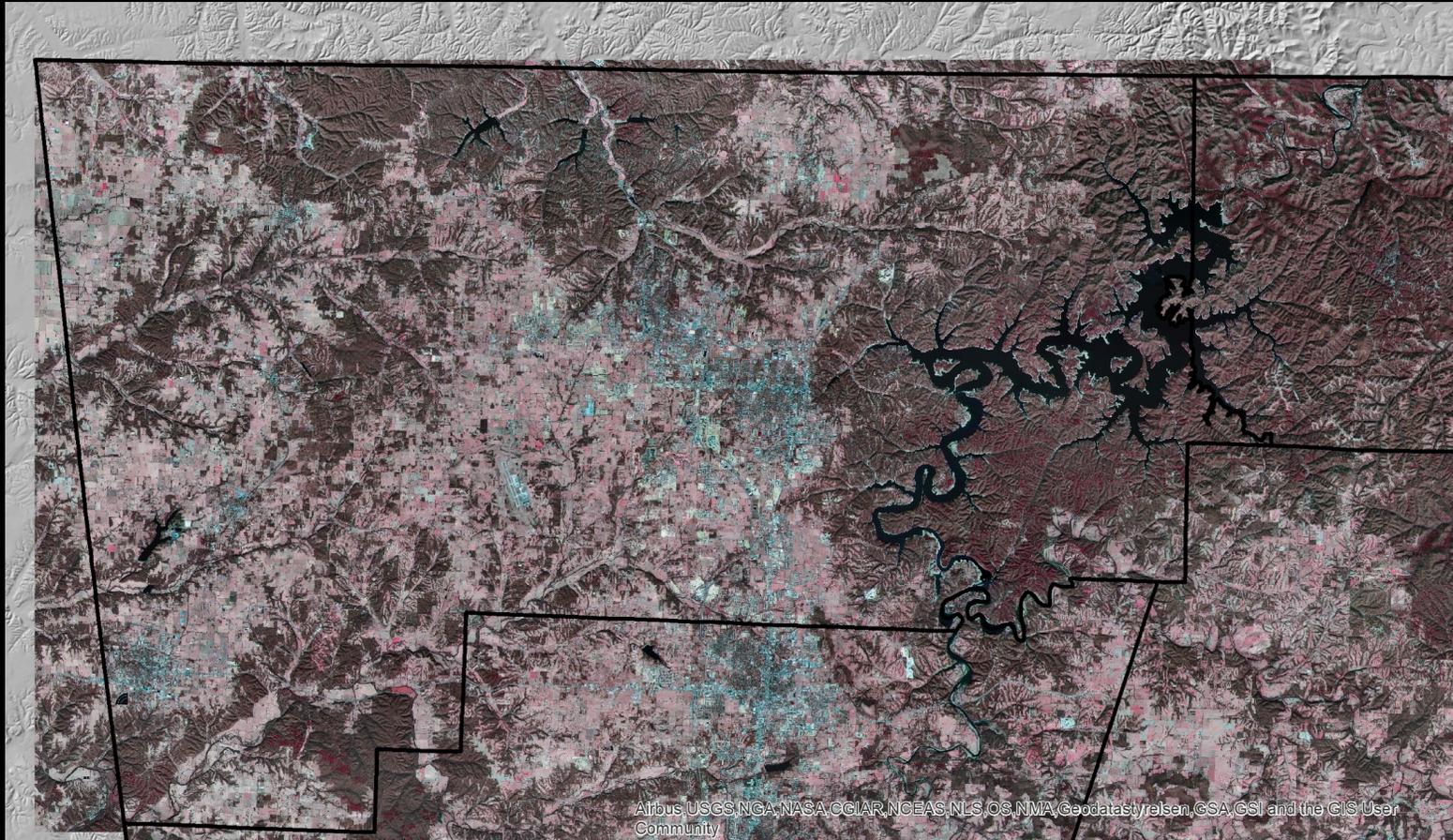


Breaks
Forest

Courtesy of Paul Nelson

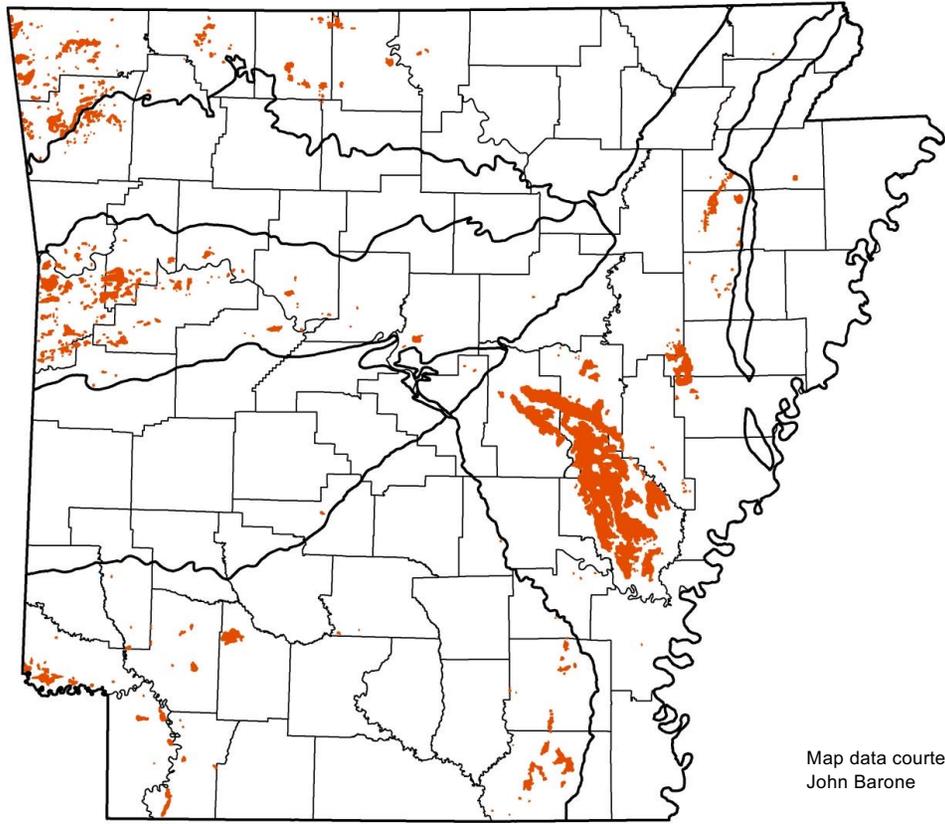


County NHIs – Winter Color-infrared Imagery









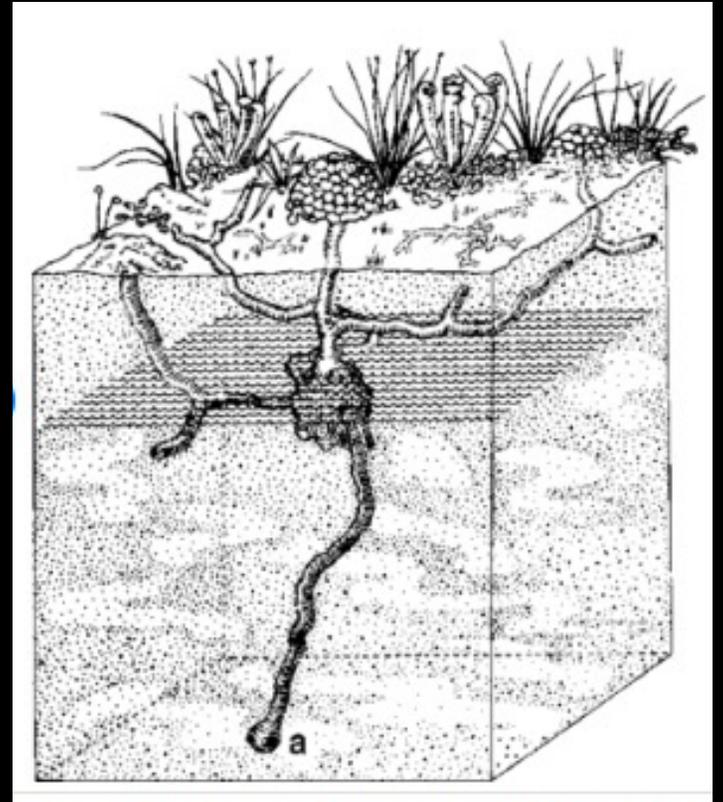
Map data courtesy of
John Barone



Photo courtesy of ANHC



00484043 © Shinji Kusano / Nature Production / Minden Pictures





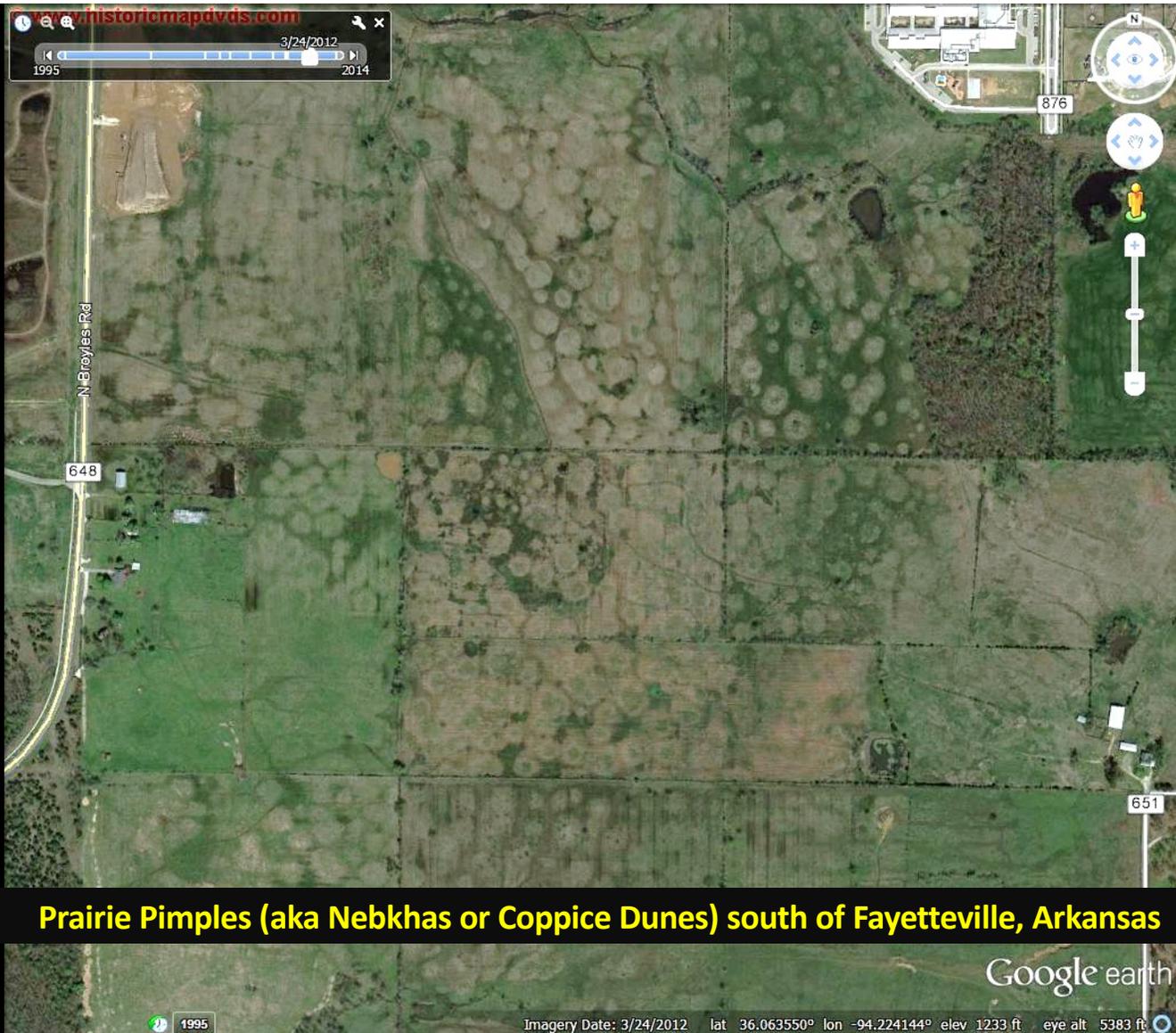
Burns Park (Pulaski County, AR)

Molly Robinson



Photo by Jennifer Akin/ANHC

Tallgrass Prairie with Nebkhas – Arkansas Valley Ecoregion



Prairie Pimples (aka Nebkhas or Coppice Dunes) south of Fayetteville, Arkansas



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Relict nebkhas (pimple mounds) record prolonged late Holocene drought in the forested region of south-central United States

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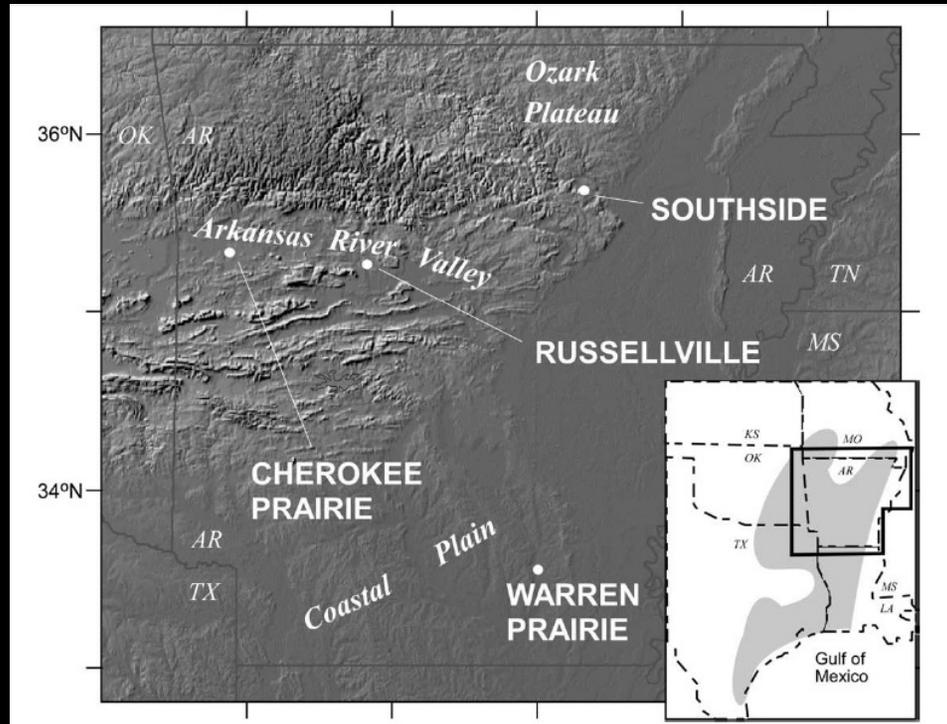
Coppice dunes

Eolian

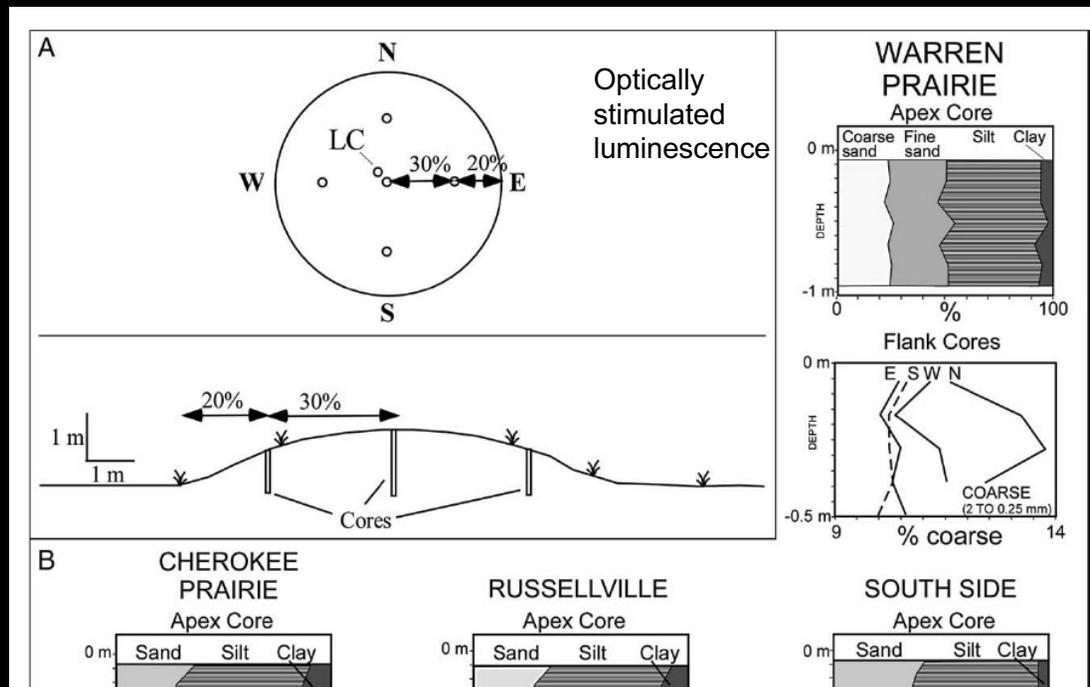
ABSTRACT

The origin and significance of pimple mounds (low, elliptical to circular dune-like features found across much of the south-central United States) have been debated for nearly two centuries. We cored pimple mounds at four sites spanning the Ozark Plateau, Arkansas River Valley, and Gulf of Mexico Coastal Plain and found that these mounds have a regionally consistent textural asymmetry such that there is a significant excess of coarse-grained sediment within their northwest flanks. We interpret this asymmetry as evidence of an eolian depositional origin of these mounds and conclude they are relict nebkhas (coppice dunes) deposited during protracted middle to late Holocene droughts. These four mounds yield optically stimulated luminescence

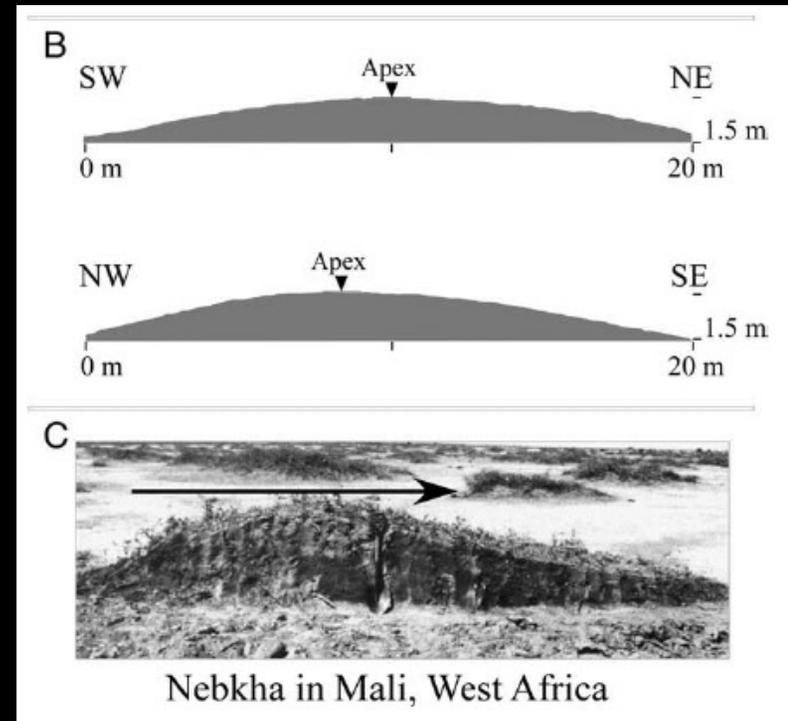
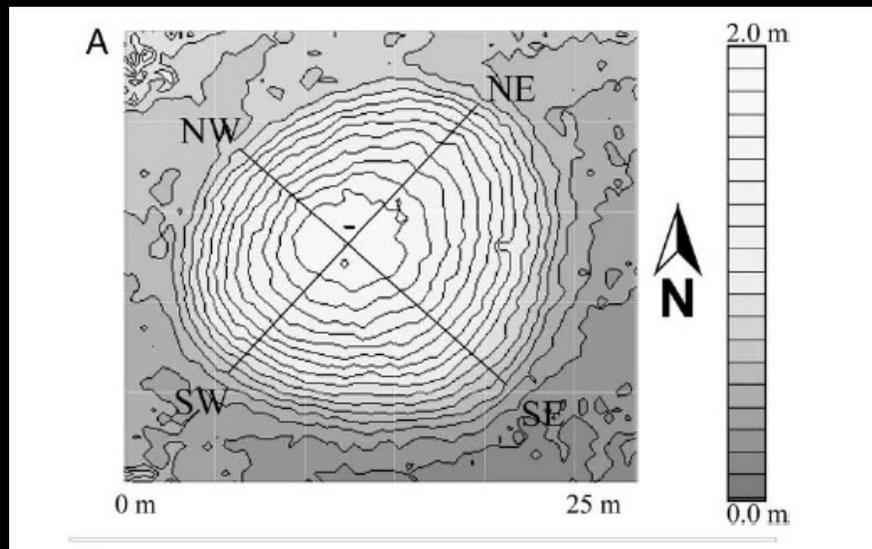
Nebkhas (Coppice Dunes)



Nebkhas (Coppice Dunes)



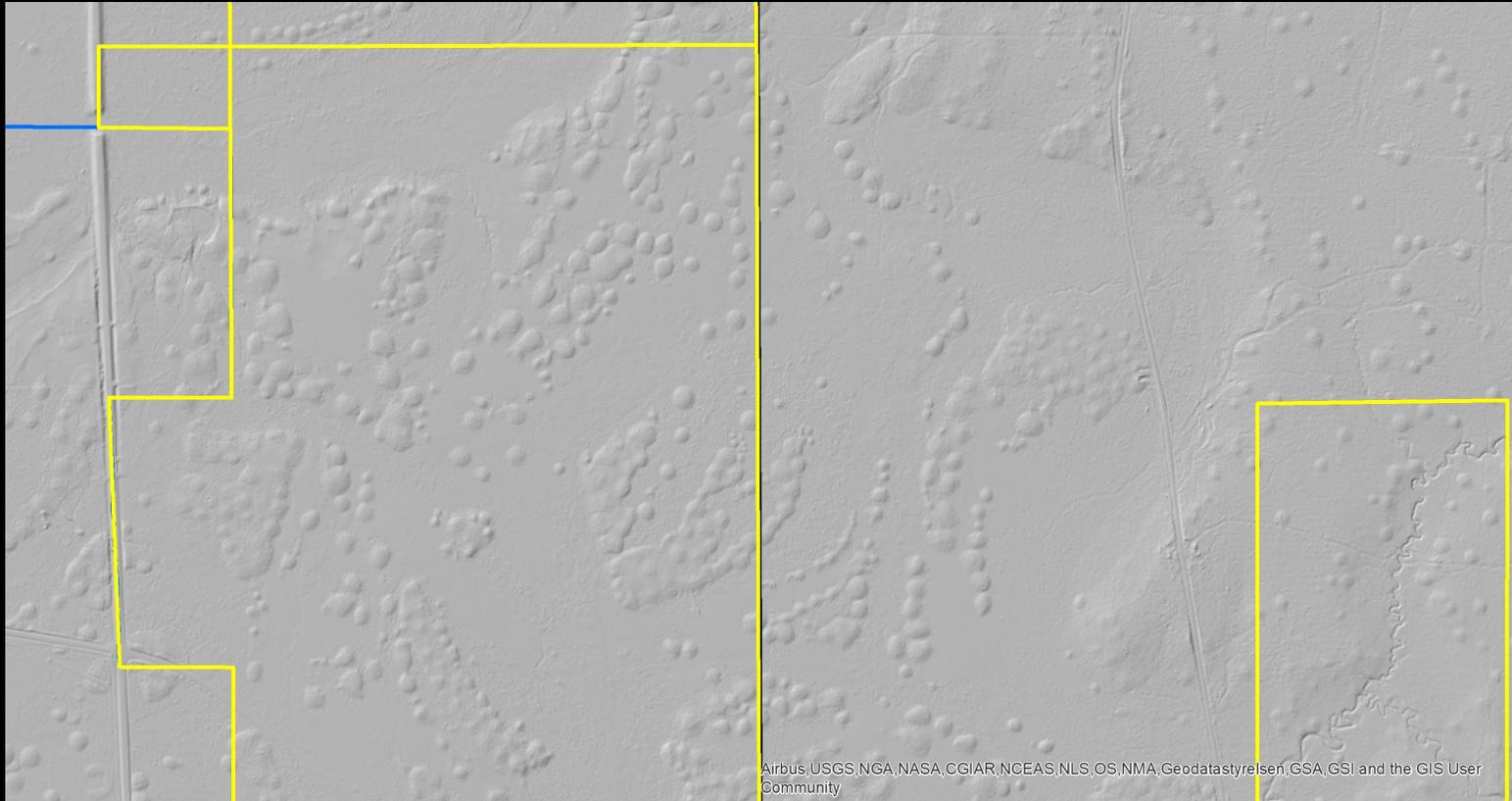
Nebkhas (Coppice Dunes)



Nebkhas (Coppice Dunes)



Nebkhas (Coppice Dunes)



Airbus, USGS, NGA, NASA, CGIAR, NCEAS, NLS, OS, NMA, Geodatastyrelsen, GSA, GSI and the GIS User Community

Prairie Pimples (aka Nebkhas or Coppice Dunes) at Warren Prairie Natural Area



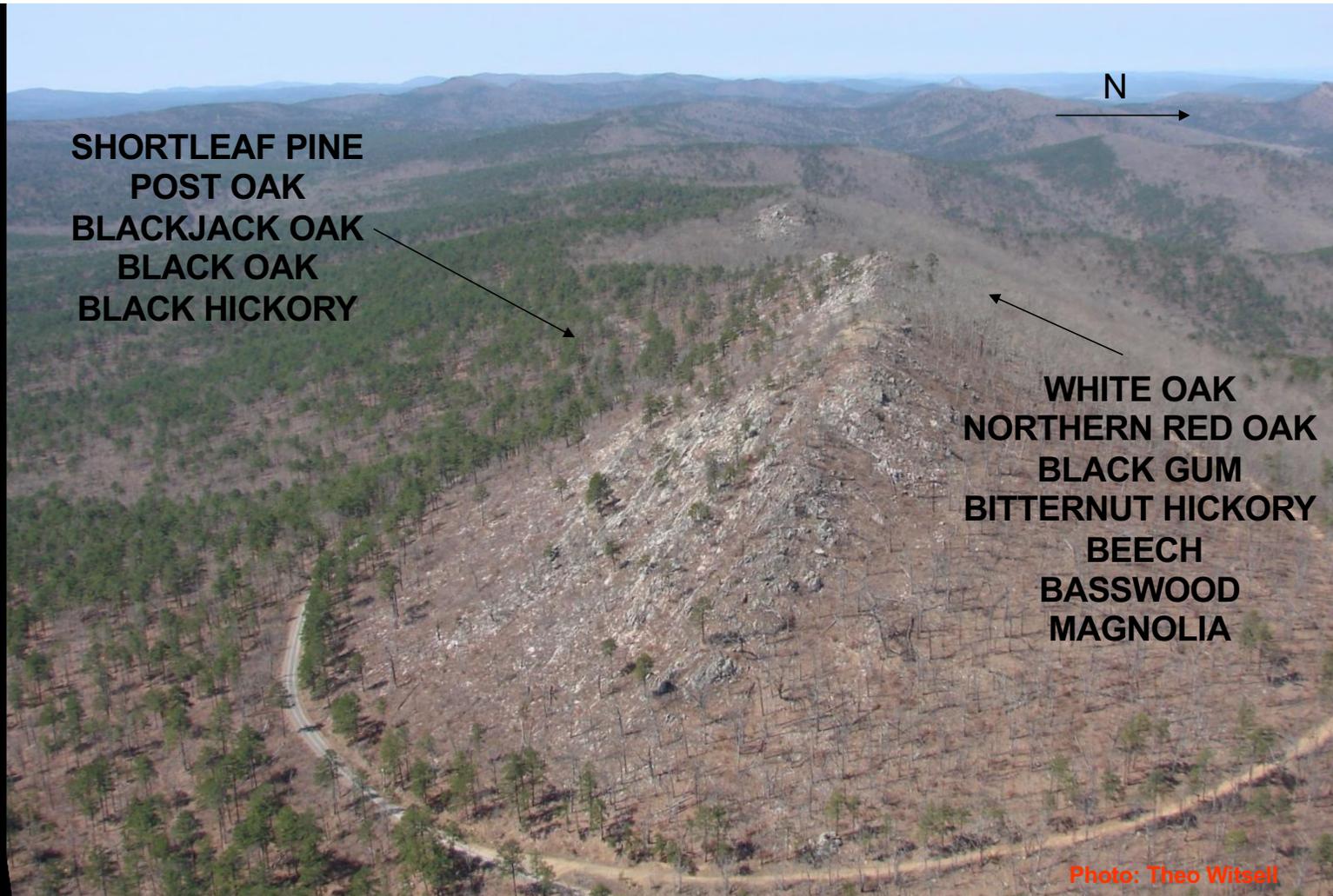
Prairie Pimples (aka Nebkhas or Coppice Dunes) at Warren Prairie Natural Area



Corydalis crystallina



Joan Reynolds

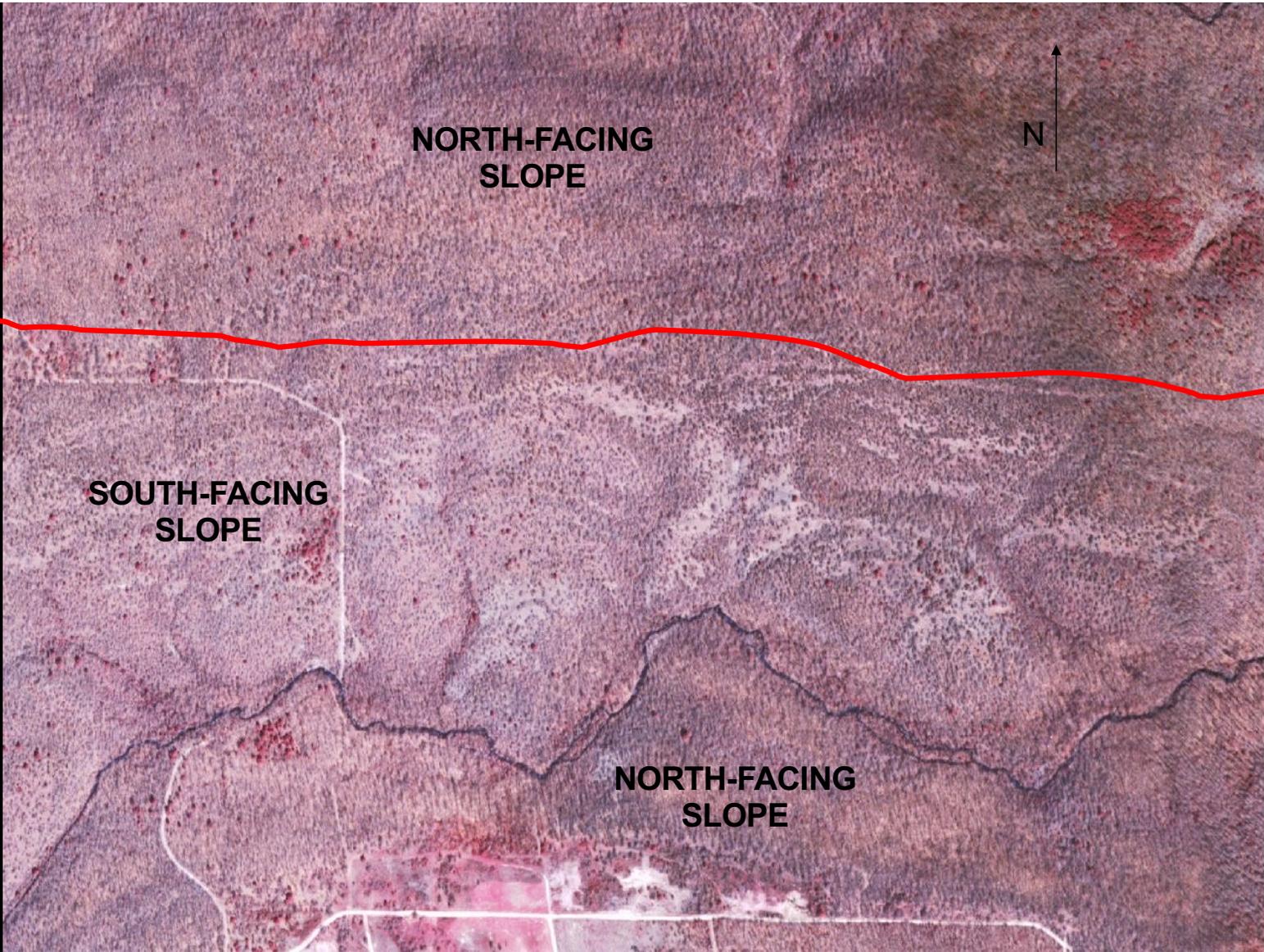


**SHORTLEAF PINE
POST OAK
BLACKJACK OAK
BLACK OAK
BLACK HICKORY**

**WHITE OAK
NORTHERN RED OAK
BLACK GUM
BITTERNUT HICKORY
BEECH
BASSWOOD
MAGNOLIA**

Photo: Theo Witsell

North Fork Pinnacle – Ouachita National Forest



**NORTH-FACING
SLOPE**



**SOUTH-FACING
SLOPE**

**NORTH-FACING
SLOPE**

FOREST INDICATORS

- High diversity of hardwood trees and shrubs not adapted to drought or fire
- Mature trees generally tall and straight
- Lack of pine, even on acidic sites
- High diversity of shade-adapted understory plants
 - Spring ephemeral wildflowers
 - Species that thrive and reproduce in summer shade
- Not especially dry on average (mesic)
- Landscape context protects site from exposure to intense sun, wind, fire



Northern Red Oak



Tulip Poplar



Sugar Maple



Beech



Umbrella Magnolia



Basswood



Spicebush



Bladdernut



American Holly



Pawpaw



Carolina Moonseed



Yellow-wood



Strawberry Bush



Wild Hydrangea