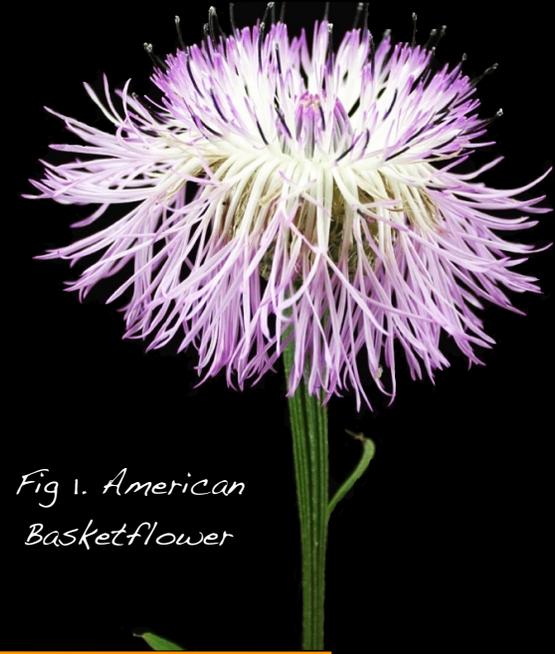


CHANGES IN THE PRAIRIE ECOSYSTEM IMPACTS ON RESTORATION



*Fig 1. American
Basketflower*

Jaime González, M.Ed.

**Community Conservation Director, Katy Prairie Conservancy
Vice President and Co-Founder, Coastal Prairie Partnership
Board Member, North American Association for Environmental Education**

GREAT PLAINS PRAIRIE

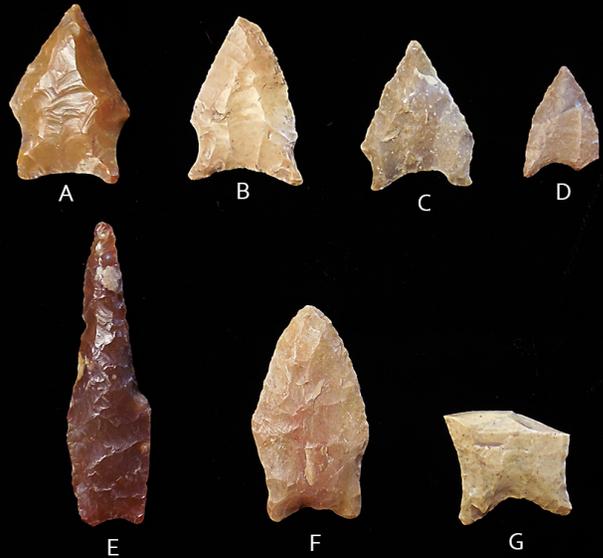
THIRD IN A SERIES



N A T U R E O F A M E R I C A

THE PRAIRIE

THE PEOPLE



41HR796

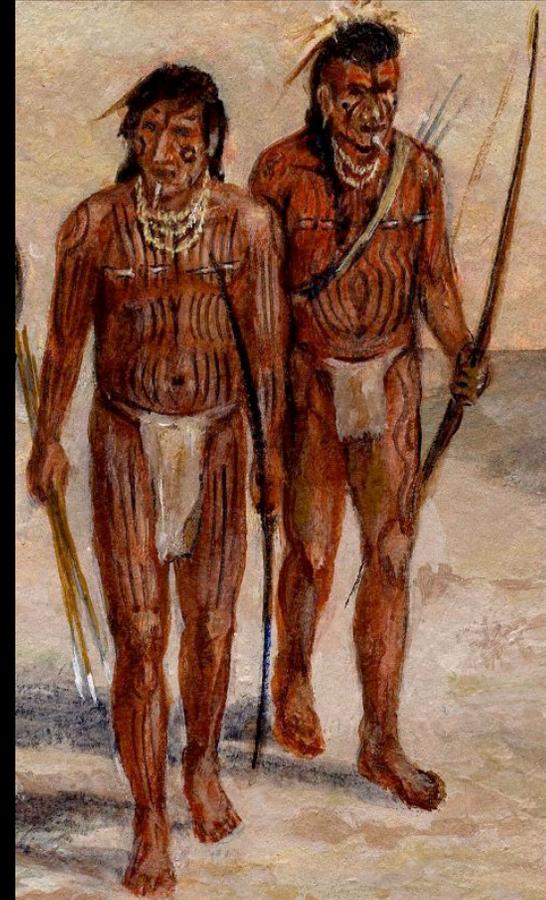
[A] San Patrice (Hope variety)
10,650BP - 10,050BP

[B-C] San Patrice (St. Johns variety)
10,650BP - 10,050BP

[D, G] Dalton. 10,650BP - 10,050BP

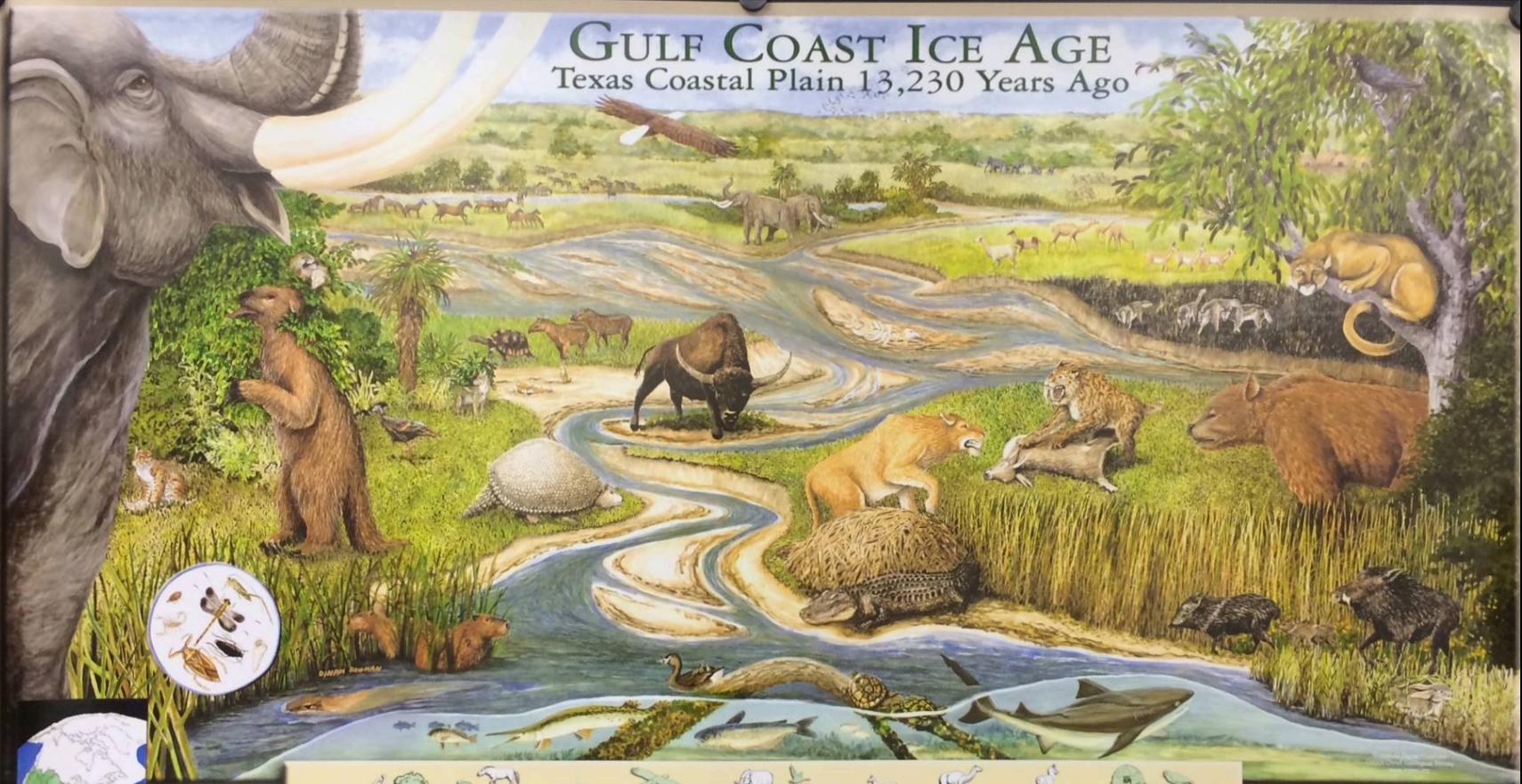
[E] Angostura (drill or awl modified)
8750BP - 8350BP

[F] Pelican. 10,650BP - 10,050BP?

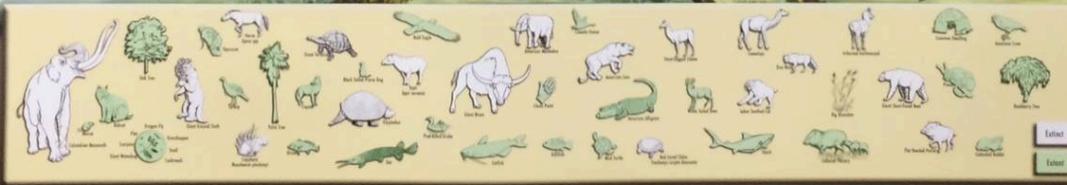


GULF COAST ICE AGE

Texas Coastal Plain 13,230 Years Ago



This inset map shows the maximum extent of the ice sheets in North America during the last glacial advance 18,000 years ago. The light brown region rimming the present-day land area (shown in green) represents exposed surface at that time. Glacial retreat allowed sea level to rise (a process that continues to this day), moving the shoreline to its present-day position.



This scene depicts the plants, animals, humans and landforms of the southern United States and northern Mexico near the peak of the last glacial period. Sea level was 350' lower than present, and the shoreline of the Gulf of Mexico was 50 miles seaward of its current position.

How do we know the age of the bones?

Wood samples that were collected with the bones were radiocarbon dated by the Southern Methodist University Radiocarbon Laboratory as 13,230 ± 110 years before present.

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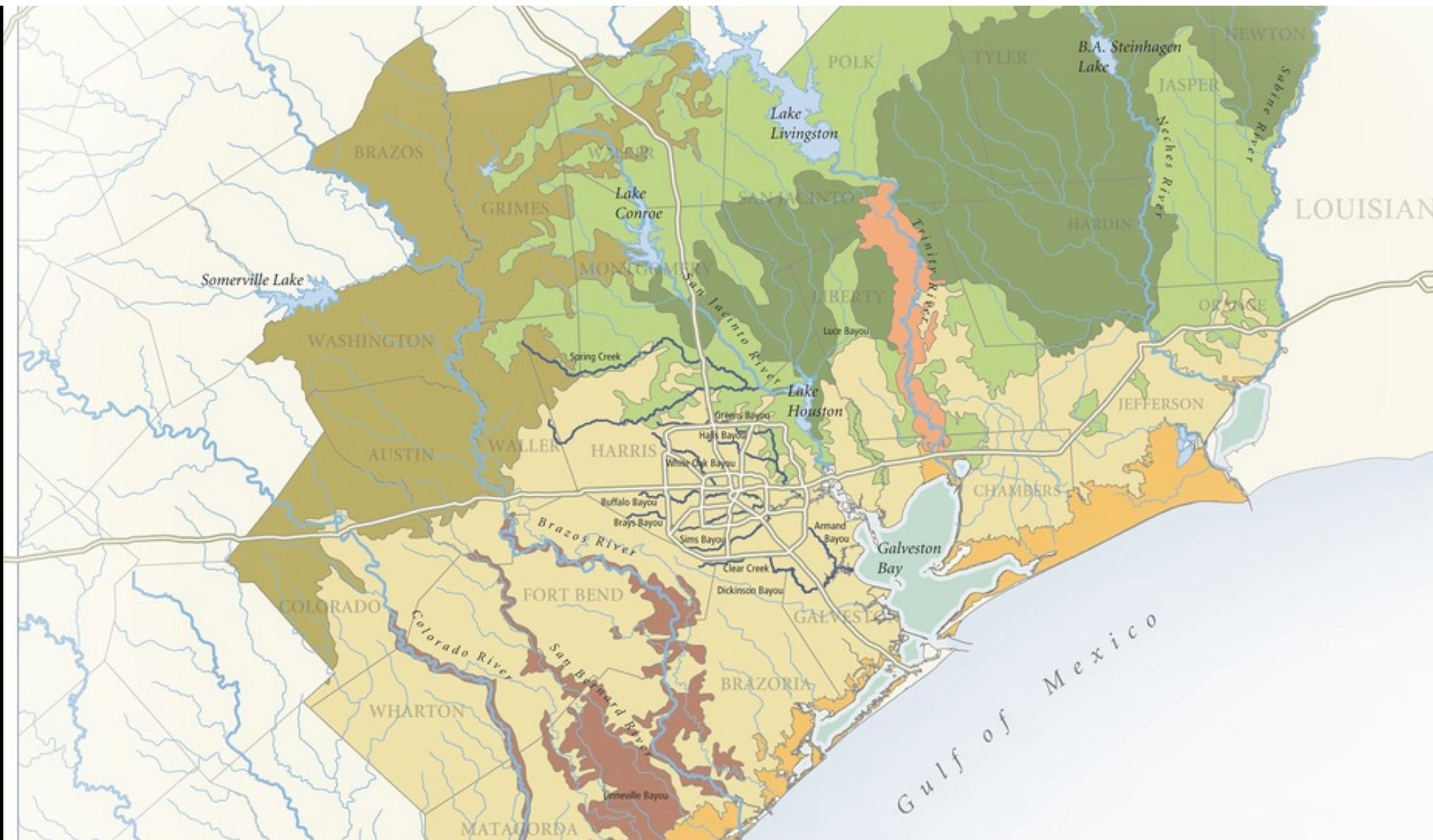


HOUSTON GEOLOGICAL SOCIETY

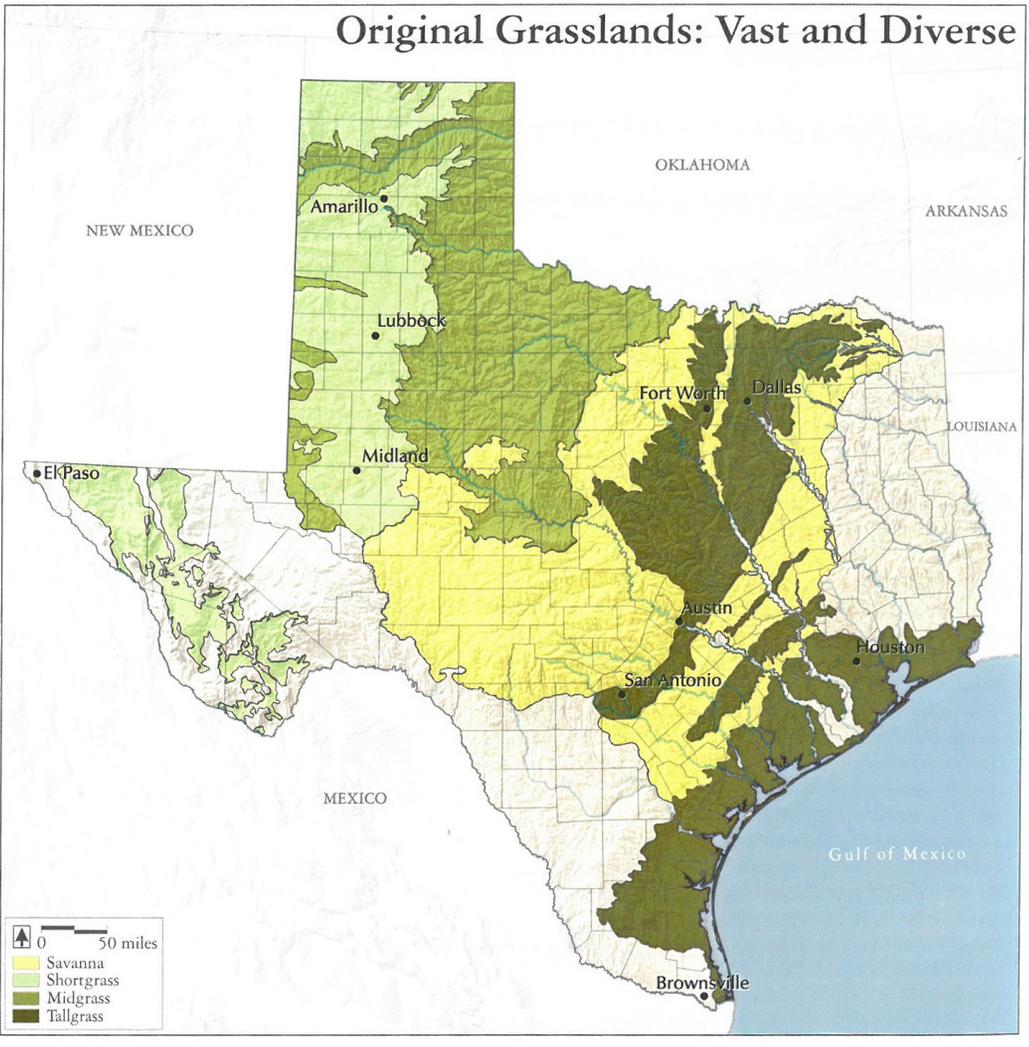


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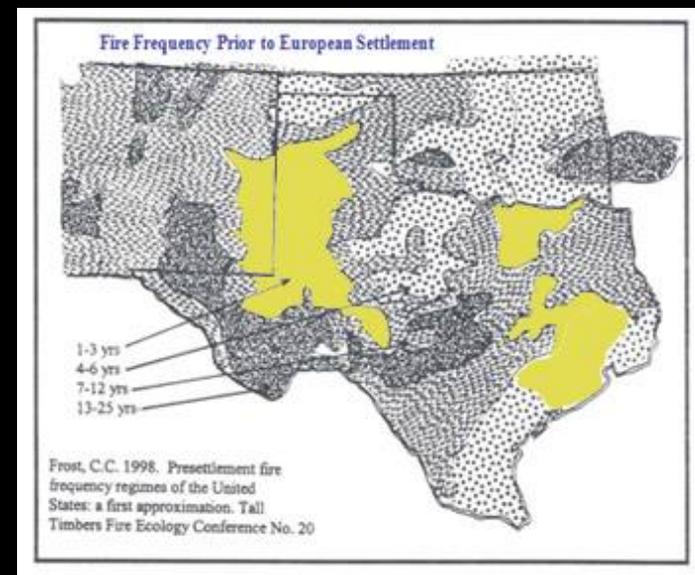


Original Grasslands: Vast and Diverse



THE PRAIRIE

RED BUFFALO





So what happened to the prairies?
And what do we do now?



*Fig 2
Maximilian
Sunflower*

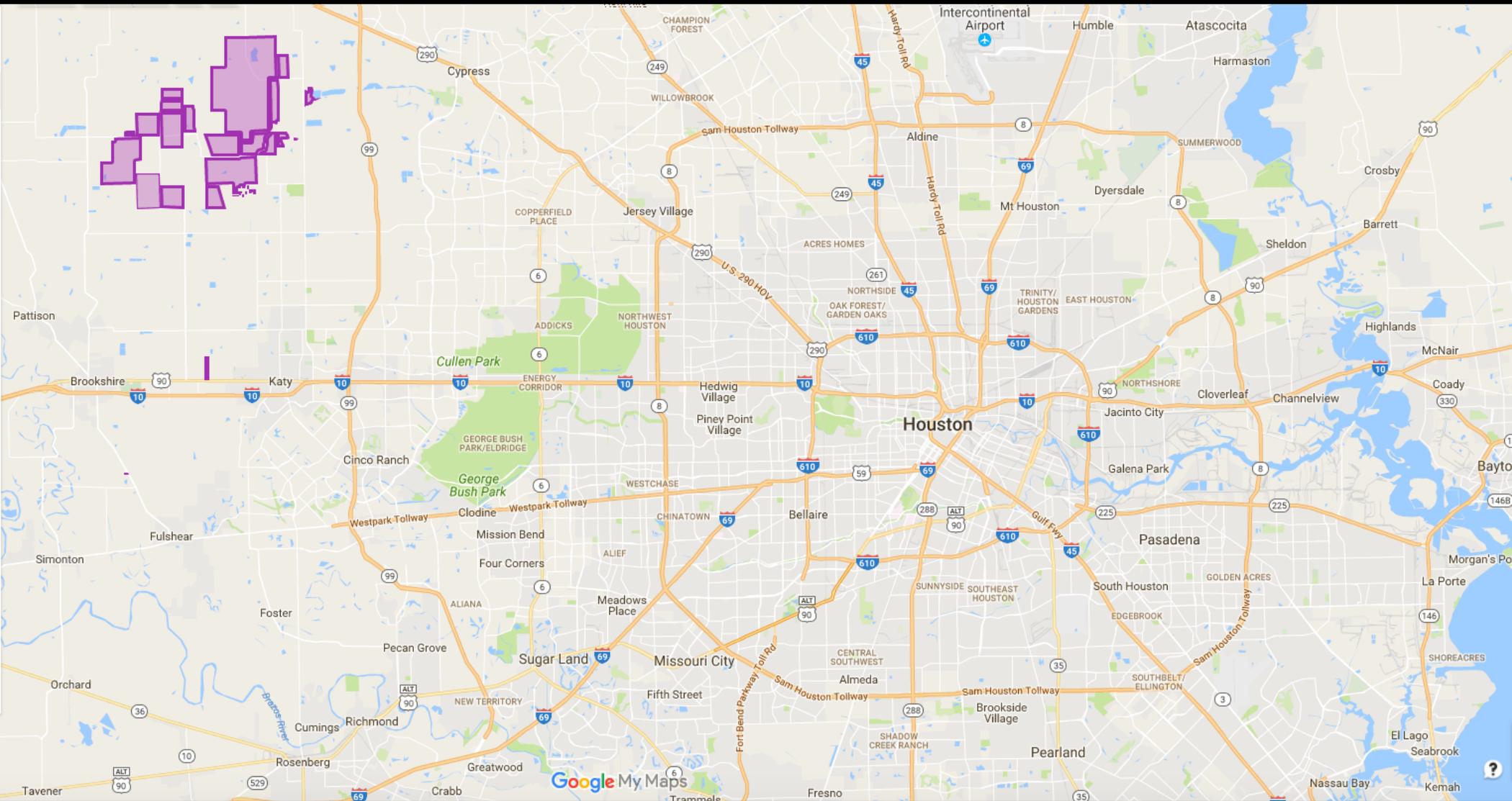
WHAT ARE YOUR **GOALS** FOR THE PROJECT?

GOALS

- Ecological
- Eco-Services
- Interpretive (what's the story?)
- Human Connectivity

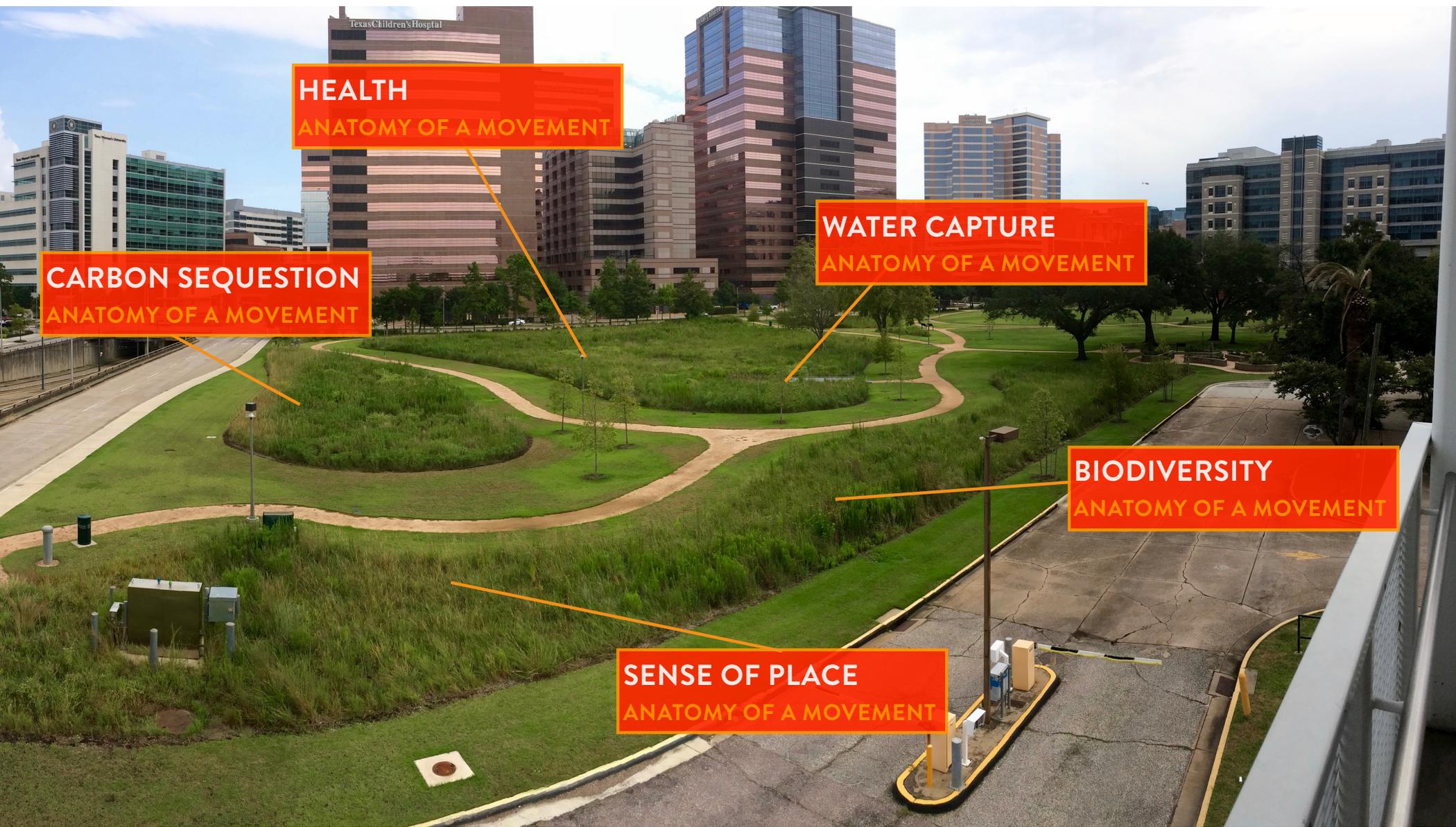


*Fig 2. Showy
Evening Primrose*









HEALTH
ANATOMY OF A MOVEMENT

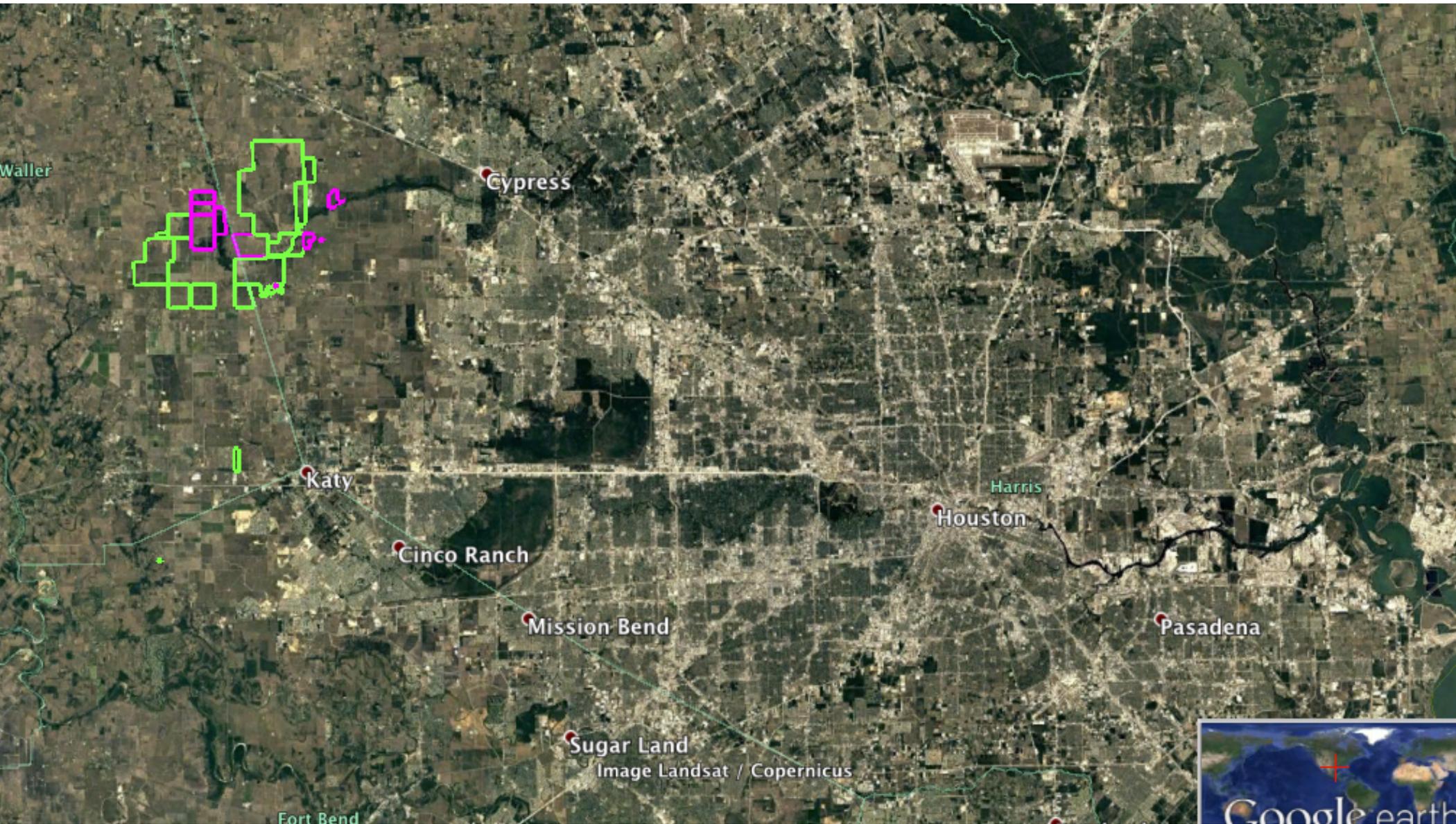
CARBON SEQUESTRATION
ANATOMY OF A MOVEMENT

WATER CAPTURE
ANATOMY OF A MOVEMENT

BIODIVERSITY
ANATOMY OF A MOVEMENT

SENSE OF PLACE
ANATOMY OF A MOVEMENT





Waller

Cypress

Katy

Cinco Ranch

Mission Bend

Sugar Land

Image Landsat / Copernicus

Harris

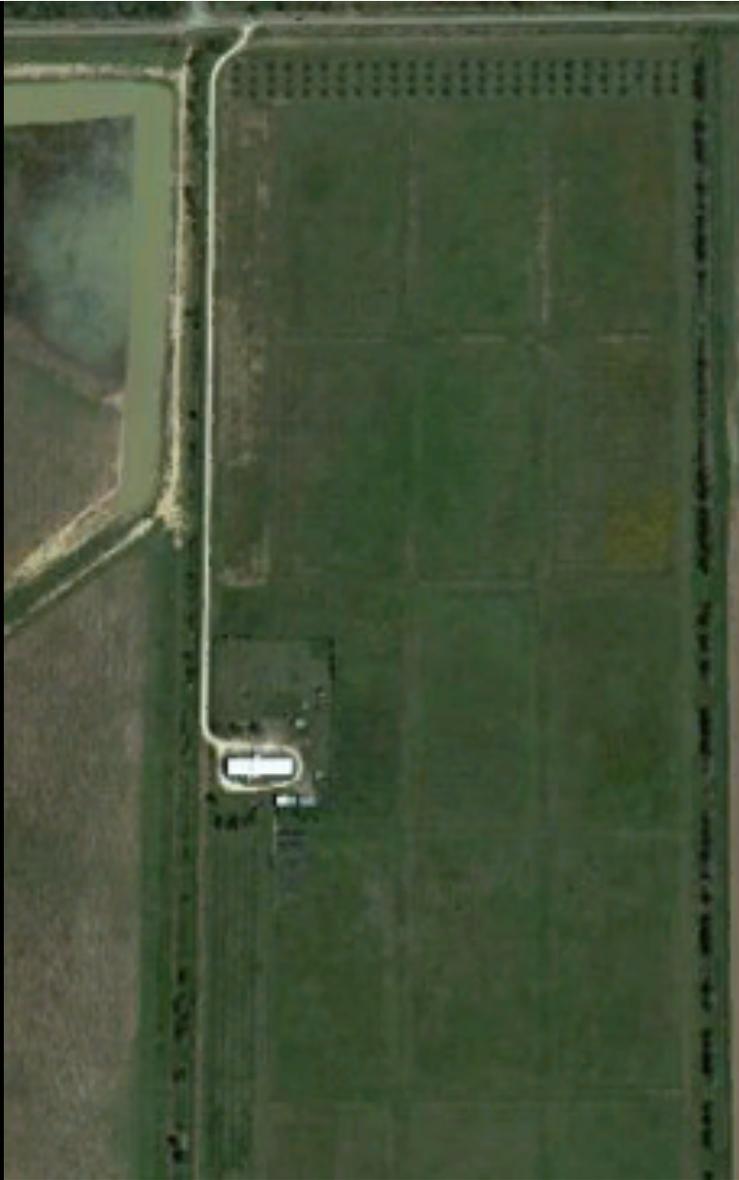
Houston

Pasadena

Fort Bend

Google earth

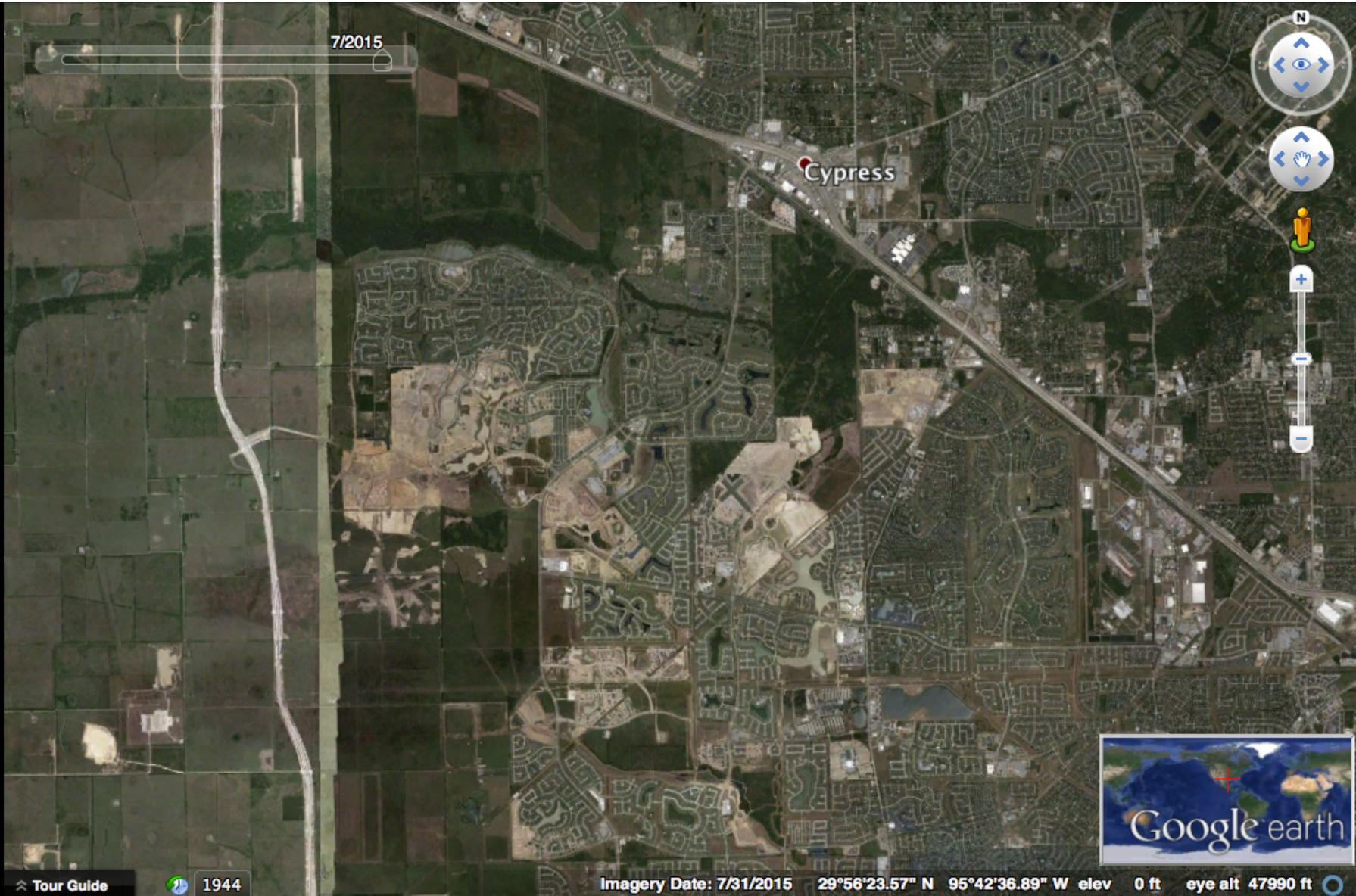




HOW DO YOU
RESTORE BETTER
HYDROLOGY TO
YOUR SITE?



*Texas
Bluebonnet*



7/2015

Cypress

Tour Guide

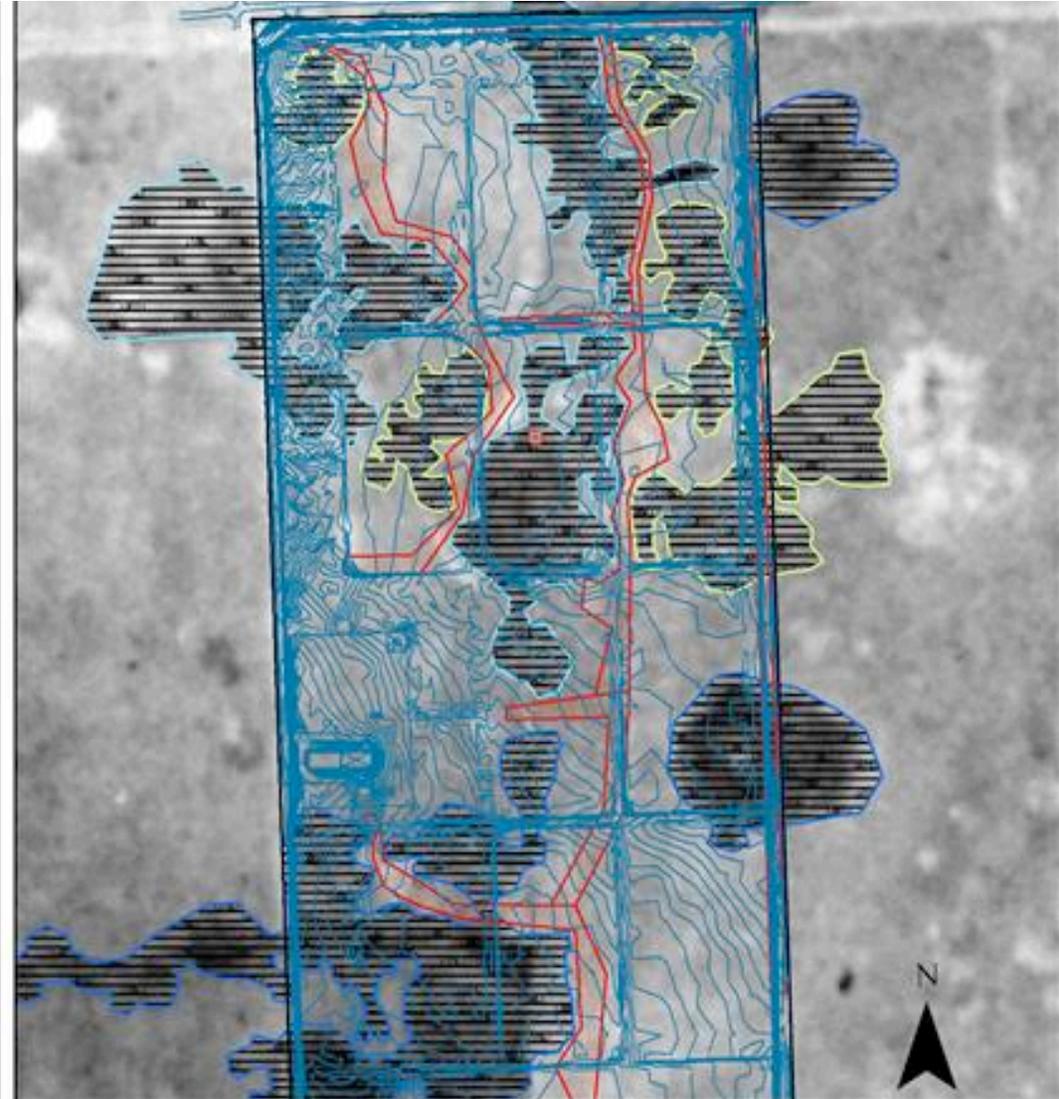
1944

Imagery Date: 7/31/2015 29°56'23.57" N 95°42'36.89" W elev 0 ft eye alt 47990 ft





TEXAS
PARKS &
WILDLIFE



Max. Water Depth (Inch)
6

Katy Prairie Conservancy

Indian Grass Preserves 0 150 300 600 Feet

Indiangrass Preserve Restoration Work in Progress



A 55-ACRE NATIVE PRAIRIE-WETLAND PROJECT
Supporting native wildlife, environmental education, and recreation.

**Katy
Prairie
Conservancy**

katyprairie.org

GENEROUSLY SUPPORTED by

- Texas Parks and Wildlife Department
- John P. McGovern Foundation
- Albert and Ethel Harestein Charitable Foundation
- Houston Endowment Inc.
- Union Pacific Foundation
- Strake Foundation



SCULPTING THE EARTH

HOW WILL YOU
REBUILD
SPECIES
DIVERSITY?



*Fig 3.
Eastern
Gamagrass*





SEEDING



SEED HAY



The Nature
Conservancy



Protecting nature. Preserving life.®



PUTTING DOWN ROOTS






Native **Prairies**
Association of Texas
The Houston Chapter • HNPAT

GROWING PLANTS

HOW WILL YOU MEASURE SUCCESS?



*Fig 4.
Bushy
Bluestem*







Photo by Iowa Herps



Photo by terry priest/flickr)

iNaturalist

Explore Learn Record





Image U.S. Geological Survey

Imagery Date: 1/



Image U.S. Geological Survey

Imagery Date:



Imagery Date:



Imagery Date:



HOW WILL YOU
USE THE
RESTORE **HUMAN**
CONNECTIVITY?



*Fig 5. Lemon
Horsemint*

EDUCATION SOARS



STONEMAN



QUESTIONS?



CONSERVATION PARTNERS



Ince Engineering
ChipCo Environmental

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Union Pacific Foundation