

GLOBE, ArcGIS Online & Storymaps

A Powerful Combination!

Sara Mierzwiak
Research Assistant
GLOBE Mission EARTH



Palm Springs Map Tour A story map [f](#) [t](#) [w](#)

A selection of cool places to discover in this fantastic desert resort.



Welcome to Palm Springs!

Palm Springs, California, is an American Shangri-La in a unique desert environment with endless sun, rediscovered mid-century architecture and a fun, relaxed atmosphere. (Photo: Greater Palm Springs CVB)





Indian Canyons



Indian Canyons Golf Resort



Elrod House



Palm Canyon Drive



Lula California Bistro



Starbucks



Palm Springs Art Museum

Assumption for this training: You know how to collect, enter and extract GLOBE data

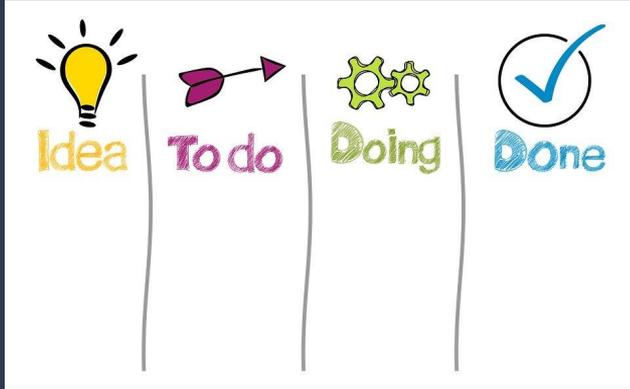
So, before you start with ArcGIS Online & Storymaps:

Think about the story you want to tell.

- Construct a draft Outline
- Hand write - the old fashioned way!
- Visualize beforehand the story to tell
- Prepare graphs/charts to help tell story
- Consider what data to map
- What type of map symbology is best?
- Then input GLOBE data into ArcGIS Online Map
- Add other layers to supplement story
- Add a title and save your final maps
- Save/screenshot your final graphs/etc.

Only then, begin with your Storymap.

Simplified Process:



GLOBE DATA →
ArcGIS Online Map → ArcGIS Storymap

STEP 1: COLLECT & ENTER GLOBE DATA ONTO GLOBE WEBSITE

STEP 2: EXTRACT GLOBE DATA & IMPORT INTO ARCGIS ONLINE MAP(S)

STEP 3: CHANGE SYMBOLOGY, ADD LAYERS, ADD TITLE, SAVE

STEP 4: CREATE TABLES, GRAPHS & CHARTS OF YOUR DATA, SAVE

STEP 5: CREATE OUTLINE & *THEN* BUILD YOUR STORYMAP

Export your GLOBE Data as .csv file

(VIS System or ADAT)

<https://www.globe.gov/globe-data/visualize-and-retrieve-data>

GLOBE Data

Data Entry

Visualize Data

Retrieve Data (ADAT)

GLOBE API

GLOBE Data User Guide

Science Honor Roll

Data Tutorials

Visualization System



View, graph, and export GLOBE data from around the world with the GLOBE Visualization System. You can use our various filters to find both contemporary measurements as well as historical data ranging all the way back to 1995. Currently, our system supports a subset of our protocols, but we're continually adding new features, so be sure to check back for our latest updates.

[Enter the Visualization System](#)

How to use the Visualization System

Learn how to call data, set up graphs, and use the various functionalities of our visualization tool with our comprehensive tutorial. You can view our general walk-through via:

- [Tutorial - PDF](#)
- [Tutorial - PowerPoint](#)

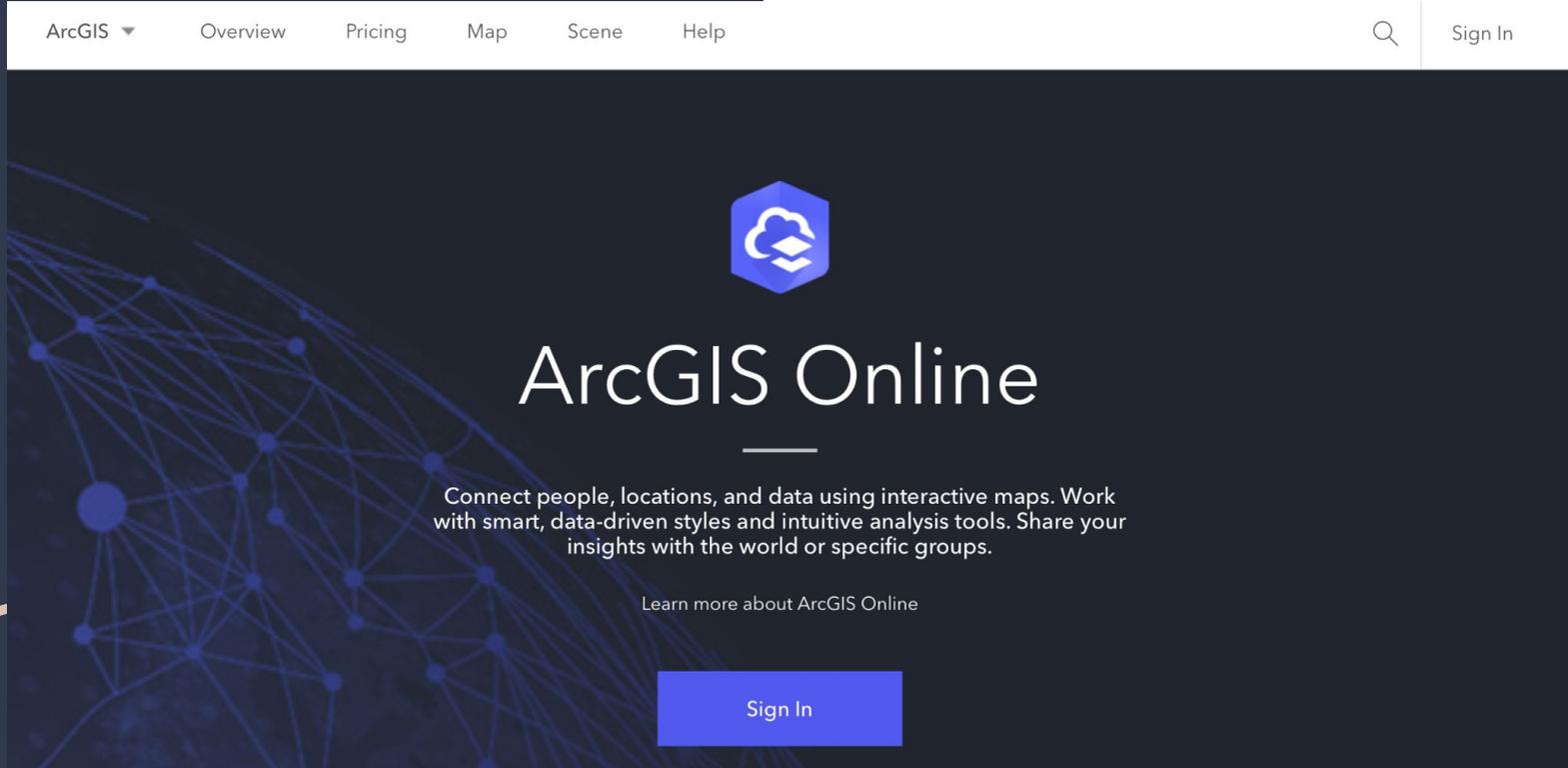
You can also construct maps and add visual layers with our data. [Learn more about setting up data maps to ArcGIS Online.](#)

Advanced import of GLOBE data → ArcGIS Online

Sign in to ArcGIS Online

Go to: www.arcgis.com

Once you are signed in, click on Map at the top.
Tip: Remember that anyone (i.e. students) can play with the Map and Scene functions without signing in!



The screenshot shows the ArcGIS Online homepage. At the top, there is a navigation bar with links for ArcGIS (with a dropdown arrow), Overview, Pricing, Map, Scene, and Help. On the right side of the navigation bar, there is a search icon and a 'Sign In' link. The main content area features the ArcGIS logo (a blue hexagon with a white cloud and map icon) centered at the top. Below the logo, the text 'ArcGIS Online' is displayed in a large, white, sans-serif font. Underneath this, a paragraph of text reads: 'Connect people, locations, and data using interactive maps. Work with smart, data-driven styles and intuitive analysis tools. Share your insights with the world or specific groups.' Below this paragraph, there is a link that says 'Learn more about ArcGIS Online'. At the bottom center, there is a prominent blue button with the text 'Sign In' in white. The background of the main content area is dark blue with a network of white lines and dots, suggesting a global or data network.

ArcGIS ▾ Overview Pricing Map Scene Help

Search Sign In



ArcGIS Online

Connect people, locations, and data using interactive maps. Work with smart, data-driven styles and intuitive analysis tools. Share your insights with the world or specific groups.

[Learn more about ArcGIS Online](#)

[Sign In](#)

Import .csv file

ArcGIS Online Map View

Home ▾ My Map

Open in new Map Viewer New Map ▾ Sara ▾

Details Add ▾ Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks Find address or place

Search for Layers

Browse Living Atlas Layers

Add Layer from Web

Add Layer from File

Add Map Notes

Make your own

It's easy to make your own map. Follow these steps:

1. Choose an area

Pan and zoom the map to an area or search by its name or address.

2. Decide what to show.

Choose a Basemap then Add layers on top of it.

3. Add more to your map.

Add map notes to draw features on the map.

Display descriptive text, images, and charts for map features in a pop-up.

4. Save and share your map.

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Here's my example data

GLOBE Surface Temperature Data from July 02, 2021 for NASA SEES UHIE Group

School Name	Site Name	Latitude	Longitude	Elevation	Measured At	Measured Value
St. Peter's High School	Smith Driveway	40.71621	-82.54959	441.0	2021-07-02 17:37:00	29.5
St. Peter's High School	Myles' Field	40.71573	-82.54988	378.0	2021-07-02 17:31:00	18.2
St. Peter's High School	Myles' Parking Lot	40.7158	-82.5489	378.0	2021-07-02 17:34:00	27.9
University Of Toledo	KAM - Parking lot at MSU	45.66969	-111.04861	1487.9	2021-07-02 17:50:00	47.4
University Of Toledo	MP - Barn Park Grassy Lot	29.70843	-95.75018	31.0	2021-07-02 12:35:00	43.1
University Of Toledo	SE - Road	29.26153	-81.15116	7.2	2021-07-02 13:40:00	53.0
University Of Toledo	SE - Backyard	29.26188	-81.15151	7.3	2021-07-02 17:37:00	42.4
University Of Toledo	RPT - Grassy Lawn	38.925	-77.148	84.9	2021-07-02 17:45:00	32.7
University Of Toledo	Dr.C's alfalfa field:ATM-10	41.82328	-83.57665	240.8	2021-07-02 17:35:00	30.8
University Of Toledo	MP - Tennis Court	29.71028	-95.75758	31.5	2021-07-02 12:40:00	52.7
University Of Toledo	SO - Concrete Res Road	41.69891	-83.66404	196.2	2021-07-02 17:40:00	27.7
University Of Toledo	Dr.Cs driveway	41.82299	-83.57616	210.0	2021-07-02 17:31:00	37.1
University Of Toledo	Sara's House on Lake Erie/Maumee Bay	41.72549	-83.46259	176.0	2021-07-02 17:40:00	31.7
University Of Toledo	KAM - MSU Grass Field	45.66757	-111.04871	1498.2	2021-07-02 17:40:00	32.9
University Of Toledo	RPT - Asphalt Road	38.92503	-77.14594	79.3	2021-07-02 17:34:00	38.2
University Of Toledo	SO - Back Yard	41.6992	-83.66404	196.3	2021-07-02 17:30:00	16.9

Choose an attribute

Default is usually Elevation, change to
“Measured Value”

Home ▾ My Map

Open in new Map Viewer New Map ▾ Sara ▾

Details Add ▾ Edit Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks Find address or place 🔍

Change Style
dv surface temperatures 07-02-2021

1 Choose an attribute to show

- Elevation ▾
- Show location only
- Elevation**
- Measured At
- Measured Value
- School Name
- Site Name
- New Expression

OPTIONS

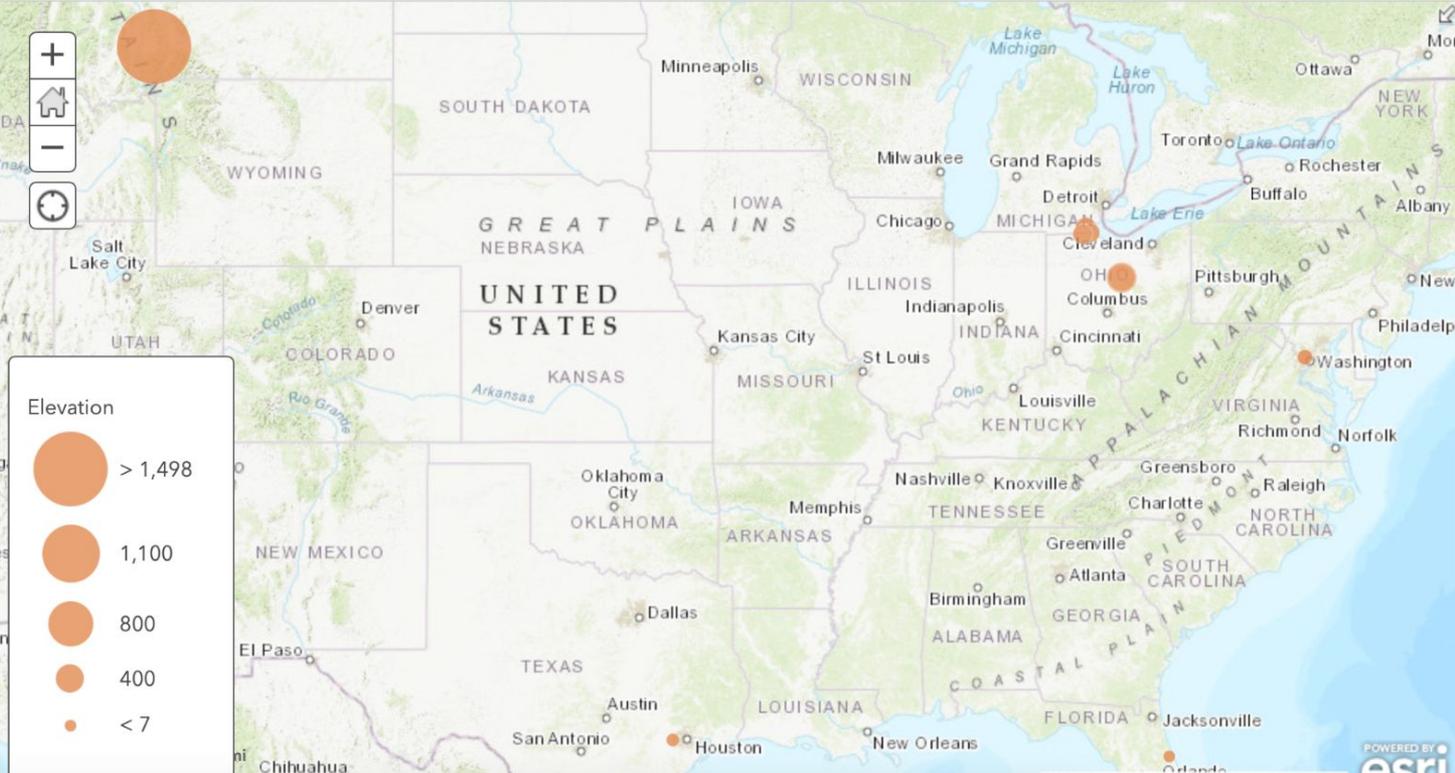
2

Counts and Amounts (Color)

SELECT

DONE

CANCEL



Select drawing style

Selecting “heat map” displays surface temperatures nicely.

Home ▾ My Map

Open in new Map Viewer New Map ▾ Sara ▾

Details Add ▾ Edit Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks Find address or place 🔍

Change Style

dv surface temperatures 07-02-2021

2 Select a drawing style

Counts and Amounts (Size)

SELECT

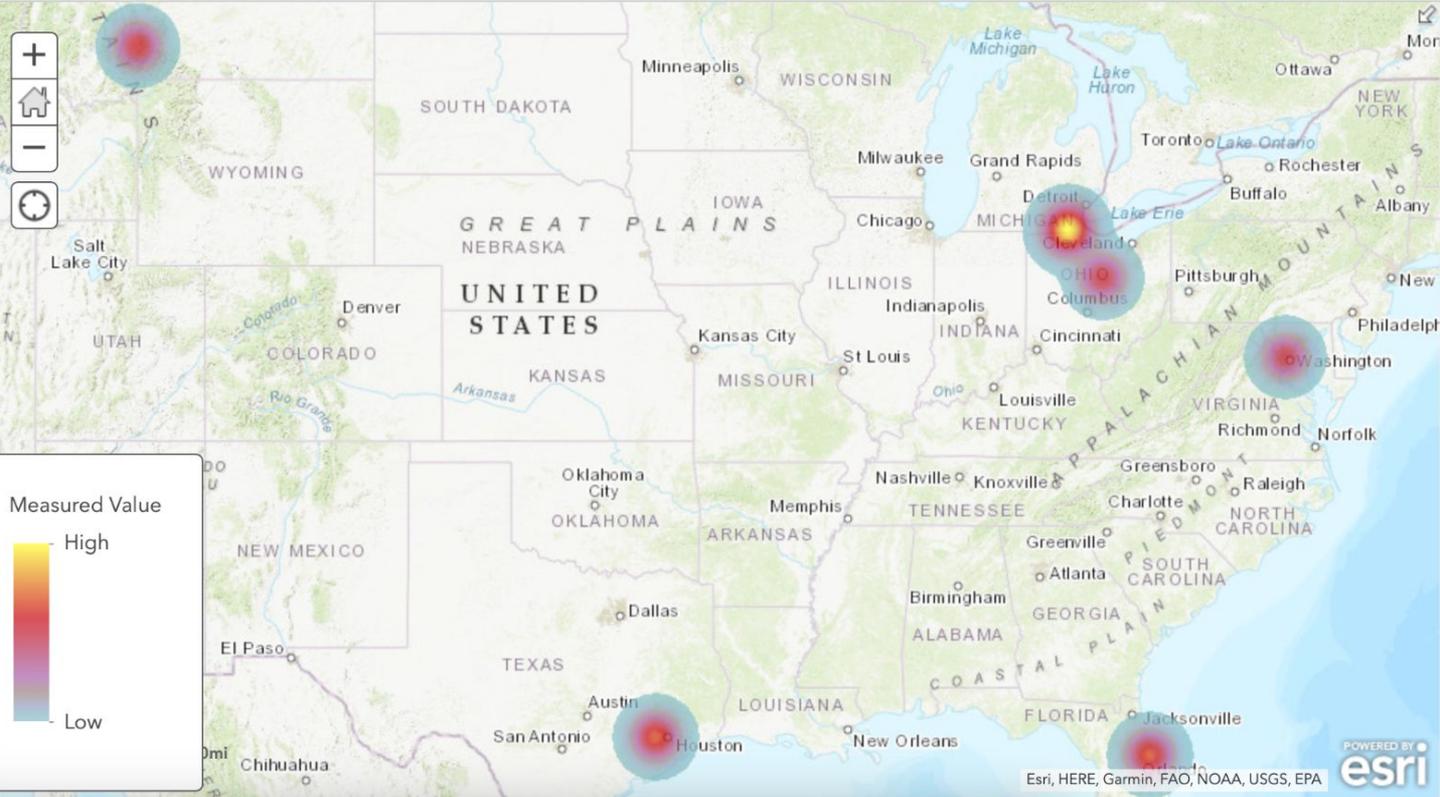
Counts and Amounts (Color)

SELECT

Heat Map

DONE

CANCEL



Rename the layer

Click the “...” symbol for this menu to show, to rename layer/etc.

Home ▾ My Map

Open in new Map Viewer New Map ▾ Sara ▾

Details Add ▾ Edit Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks Find address or place

Contents

- dv surface temperatures 07-02-2021

Measured Value

High

Low

Topographic

- Zoom to
- Transparency
- Set Visibility Range
- Rename**
- Move up
- Move down
- Copy
- Hide in Legend
- Remove
- Remove Pop-up
- Configure Pop-up
- Create Labels
- Route to all Features
- Description
- Save Layer

Trust Center Contact Esri

Esri, HERE, Garmin, FAO, NOAA, USGS, EPA

POWERED BY esri

Add a layer

Add → Browse Living Atlas Layers I searched for “Urban Heat”

Home ▾ My Map

Open in new Map Viewer New Map ▾ Sara ▾

Details Add ▾ Edit Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks Find address or place

← Living Atlas ▾

Urban heat

9 layers



[Urban heat islands for U.S. cities](#)

by [The Trust for Public Land](#)

[View item details](#)

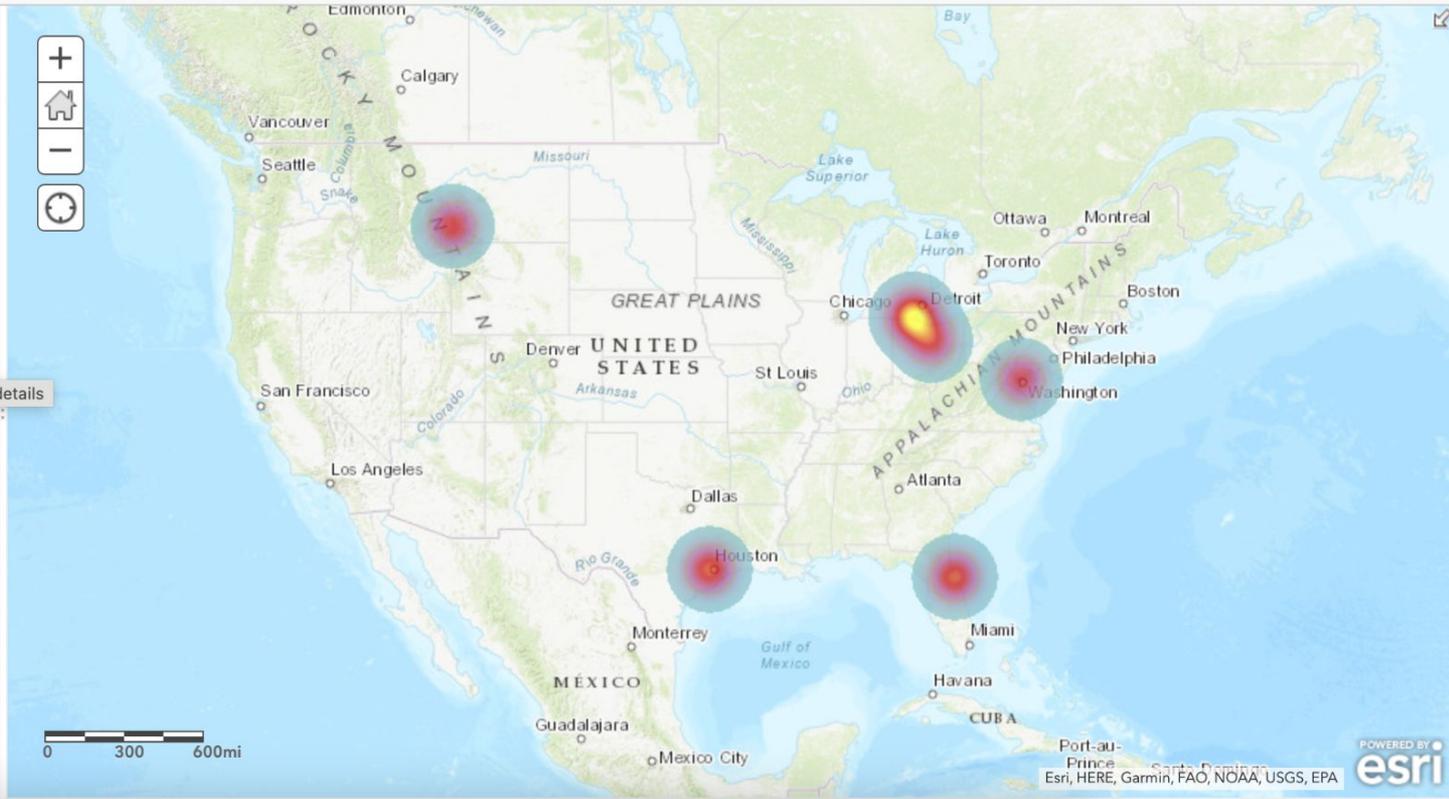
Updated: 5/24/21



[Full Range Heat Anomalies - Hawaii 2020](#)

by [TPL_GIS_Support](#)

Updated: 7/29/21



Add a layer (cont'd)

Click on title of layer, read info about it, then click blue button "Add to Map".

Home ▾ My Map Open in new Map Viewer New Map ▾ Sara ▾

Details Add ▾ Edit Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks

Living Atlas ▾

Urban heat ✕

9 layers ☰ ☰ ☰ ☰



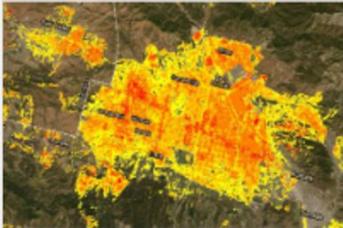
Urban heat islands for U.S. cities
by The Trust for Public Land
Updated: 5/24/21

✓ 🌐 ⊕



Full Range Heat Anomalies - Hawaii 2020
by TPL_GIS_Support
Updated: 7/29/21

🌐 ⊕



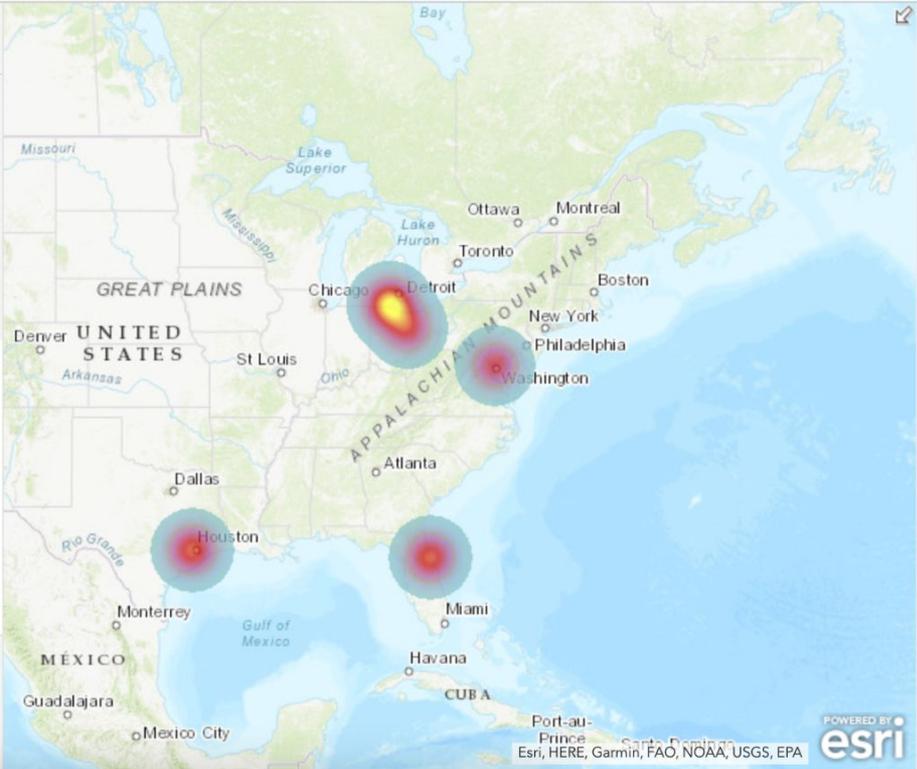
Urban heat islands for U.S. cities 🔗

🗺️ Imagery Layer by The Trust for Public Land
Updated: May 24, 2021

✓ Authoritative 🌐 Living Atlas

[Add to Map](#)

[Use as Basemap](#)



POWERED BY
Esri, HERE, Garmin, FAO, NOAA, USGS, EPA 

Zoom in

Here I zoomed in to Mansfield, OH.
Where else could we collect GLOBE data?

Home ▾ My Map

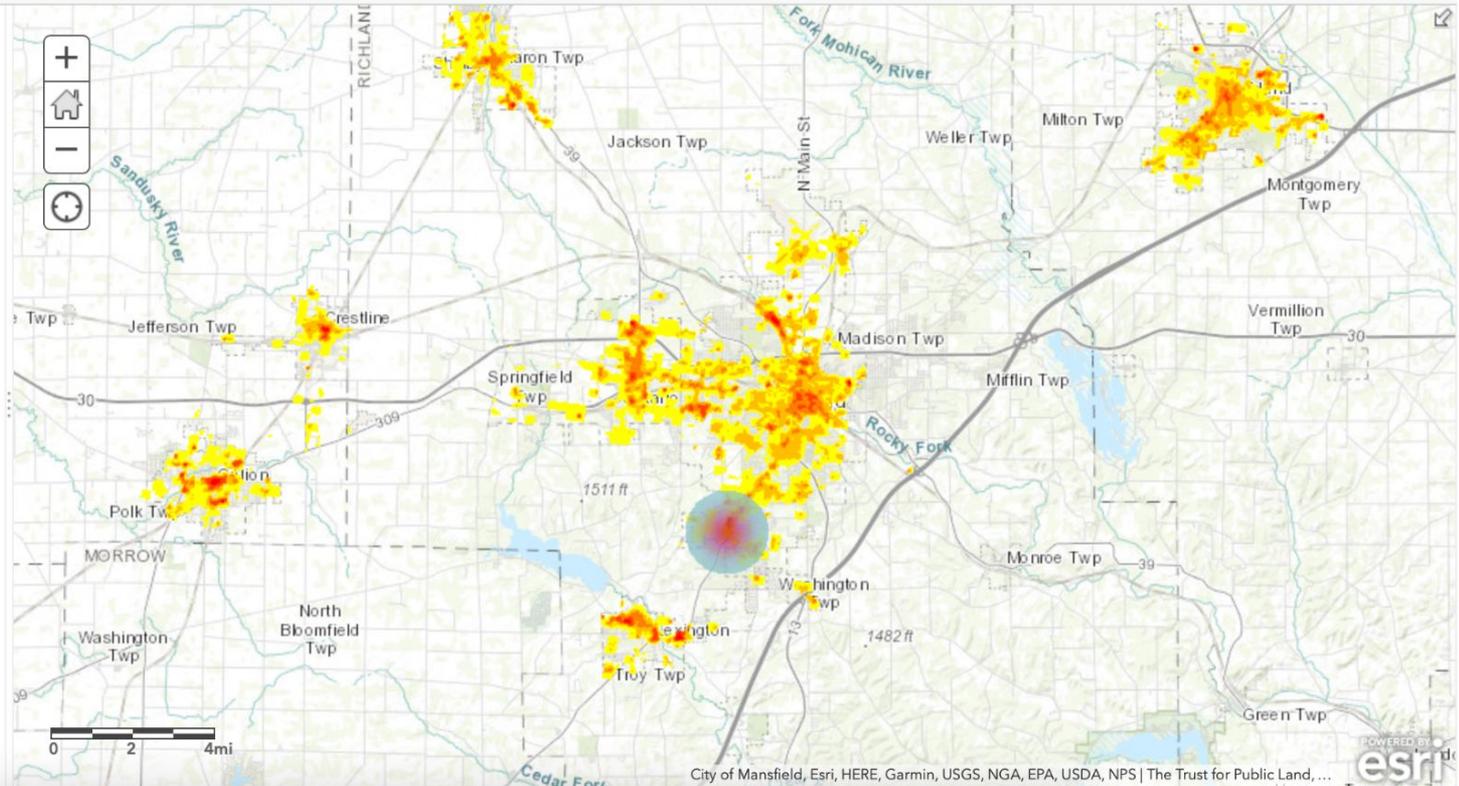
Open in new Map Viewer New Map ▾ Sara ▾

Details Add ▾ Edit Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks Find address or place 🔍

Contents

- GLOBE Surface Temperature Data
07-02-2021
Measured Value
High
Low
- Urban heat islands for U.S. cities
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2
3
4
5
- Topographic

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Use this exploration to tell a story



DRAFT OUTLINE FOR THIS STORY:

1. Surface Temperature data collected and entered into GLOBE website
2. Data extracted and imported into ArcGIS Online
3. Data layer added from Living Atlas (Urban Heat Islands)
4. Zoomed in to a city or place
5. Develop question: Where else could surface temperature data be collected, based on the UHI layer?
6. Critique: What problems might there be with the Living Atlas UHI layer?
7. Go further: What kind of research question could be developed?

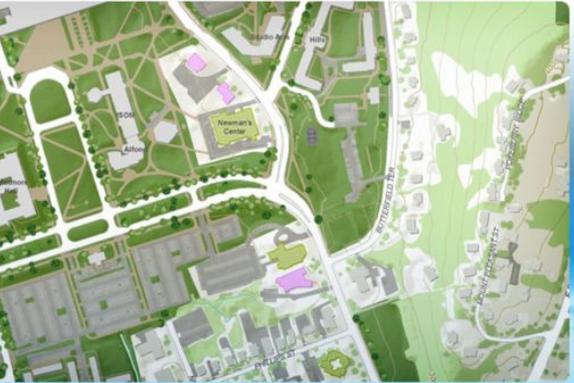


ArcGIS Online 

Maps and Apps for Everyone

Easy online discovery, access, visualization, and dissemination of geospatial information.

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Story Maps ▾ Apps Gallery Resources Blog [My Stories](#)

Jiunn Hsueh ▾ English ▾ 

Story Maps

Everyone has a story to tell.
Harness the power of maps to tell yours.



Oaks Gone Wild! Map Tour

Explore trees, and the wild life of the UC Davis Adventure: Shrub-Oak Green.



Homegrown Hosts

Georgia, Georgia is the largest producer of pecans in the world. The state's pecan industry is the largest in the world. The UC Davis Agriculture Center is the largest producer of pecans in the world. The UC Davis Agriculture Center is the largest producer of pecans in the world.

Holy Oaks!

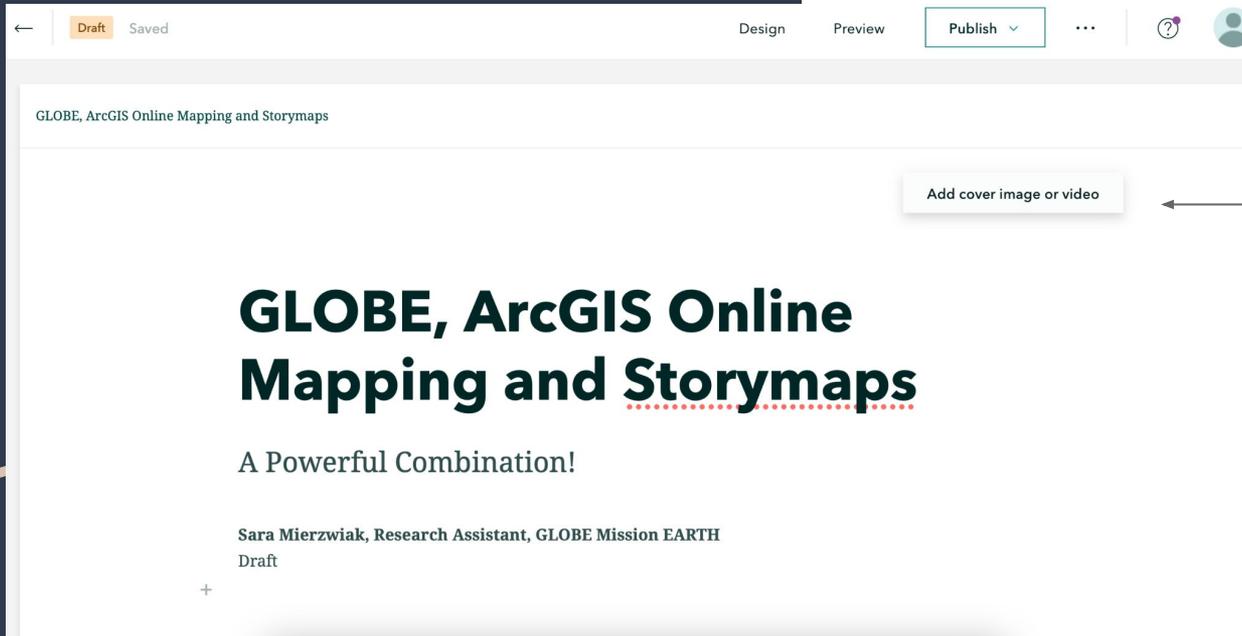
Native to Brazil, Jordan, Lebanon, Syria, and other Mediterranean regions, the tree is a member of the oak family. The tree is a member of the oak family. The tree is a member of the oak family.

Created in partnership with the author of UC Davis All Science Journal, this tool is available for students and researchers. The tool is available for students and researchers. The tool is available for students and researchers.

Create a Storymap

A short tutorial

- Go to: www.storymaps.arcgis.com
- Click on New Story to create a new storymap
- Choose “Sidecar” as a template
- Add a title, subtitle and your name
- Note that hitting Enter after any line opens up option to Add (+) more content



Click on the “Add cover image or video” to add a background to your title page.

Now go view the
Storymap
associated with this
training.

Go to:

<https://arcg.is/yb1iG>

This Storymap will show everything we just covered in this google slide set, and then pick up with how to construct a Storymap.