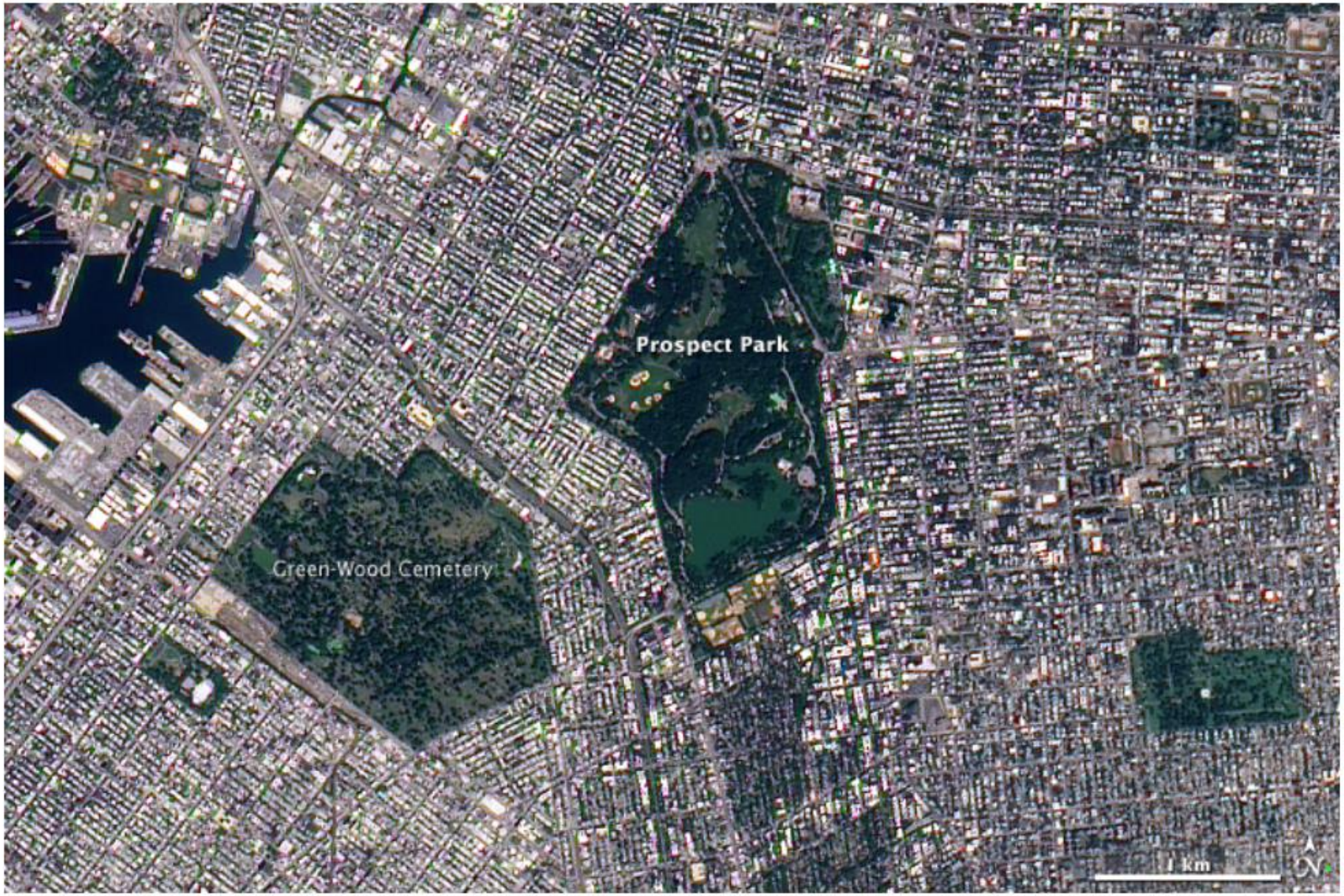
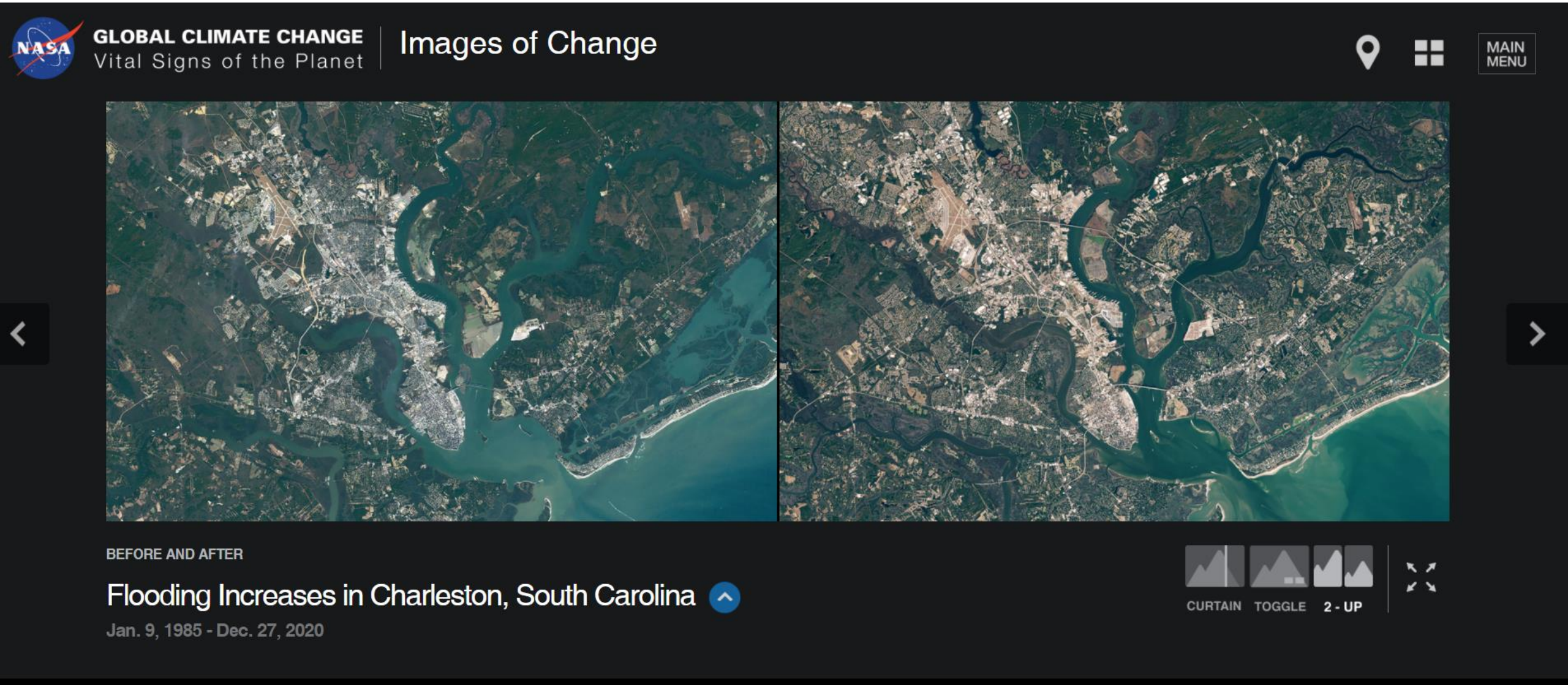
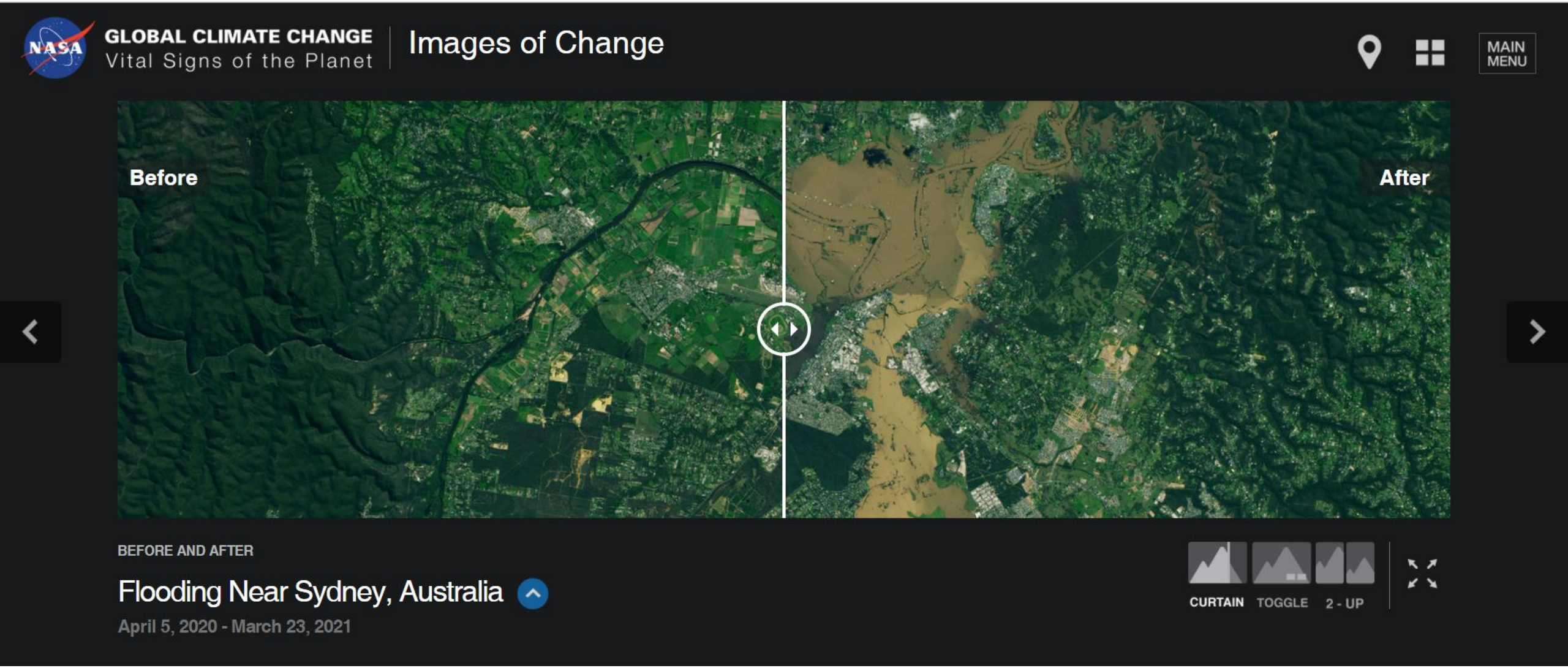


September 12, 2001 https://earthobservatory.nasa.gov/images/39723/prospect-park-brooklyn JPEG

Acquired September 12, 2001, this true-color image of Brooklyn shows two green oases in the middle of cityscape: Prospect Park and Green-Wood Cemetery.
Image of the Day for August 9, 2009



https://climate.nasa.gov/images-of-change/?id=765#765-flooding-increases-in-charleston-south-carolina



https://climate.nasa.gov/images-of-change/?id=759#759-flooding-near-sydney-australia





Bishan Park, Singapore

By Atelierdreiseitl, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=27910899

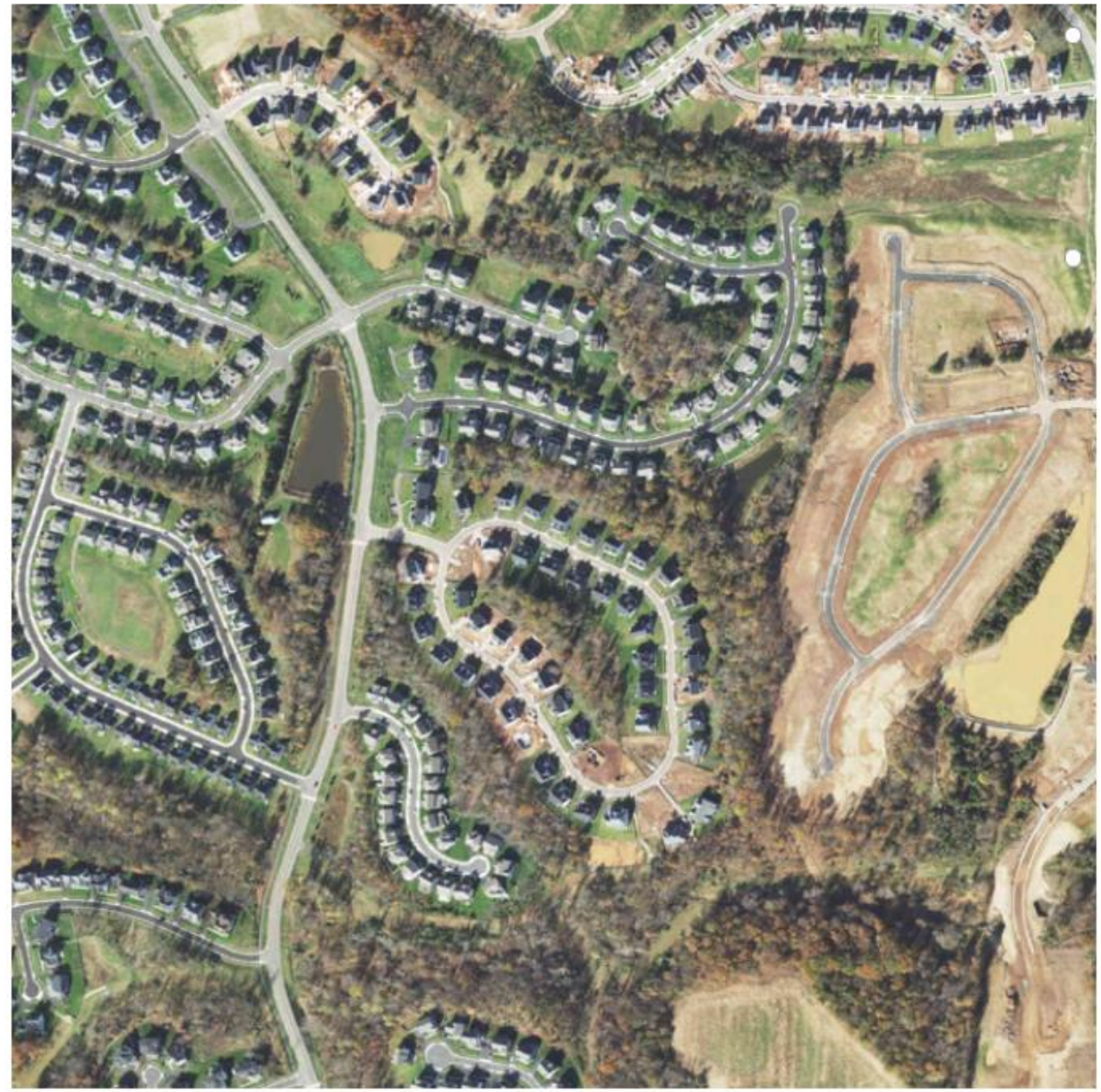
The next several slides of images are taken from an article in the NYTimes.

https://www.nytimes.com/interactive/2019/12/27/upshot/america-from-above.html

Loudoun County, Va., **in 2012**



Loudoun County, Va., **in 2018**



Gilbert, Ariz., **in 2013**



Gilbert, Ariz., **in 2019**



Downtown Durham, N.C., **in 2012**



Downtown Durham, N.C., **in 2018**



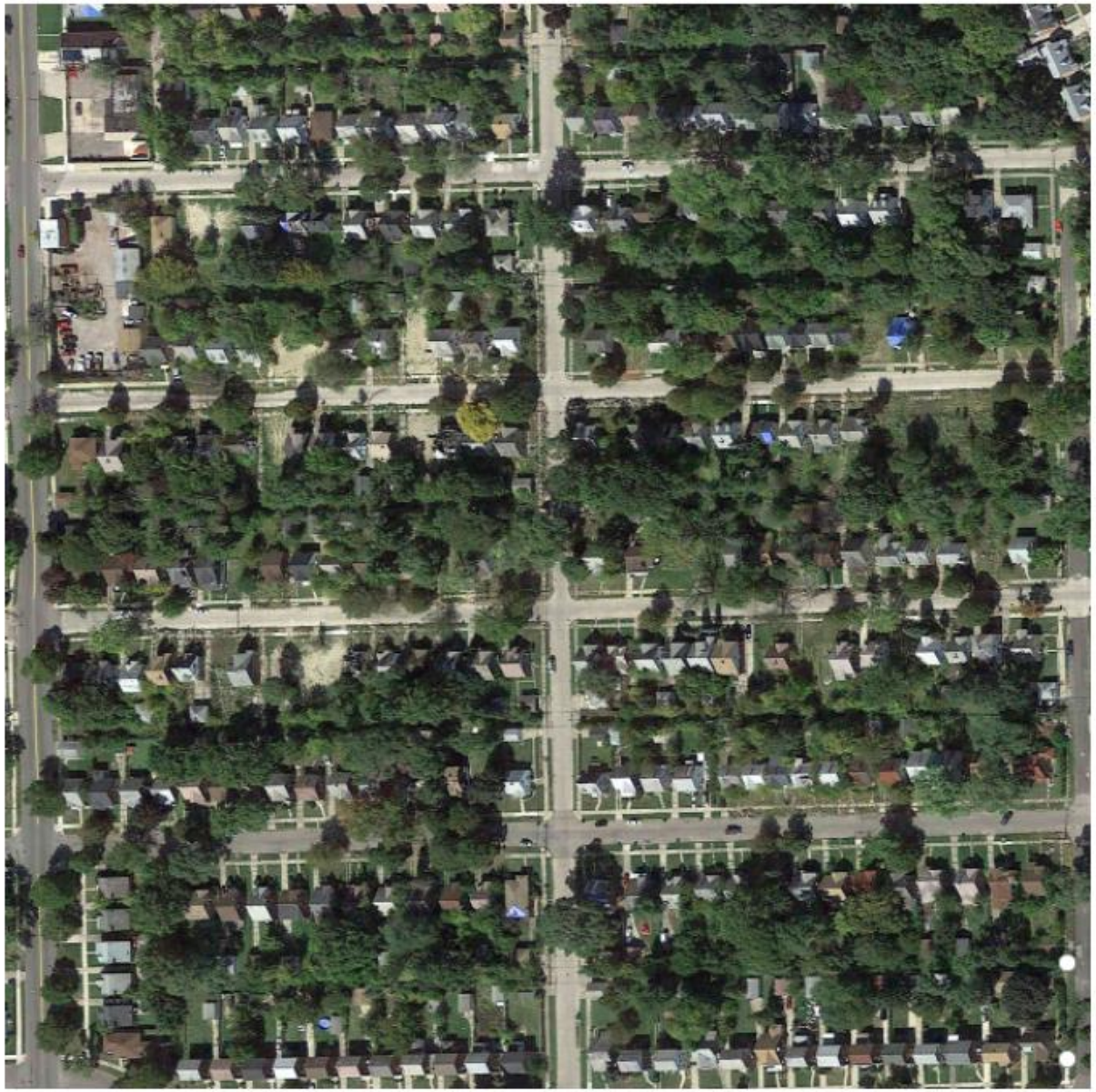
Nashville **in 2012**



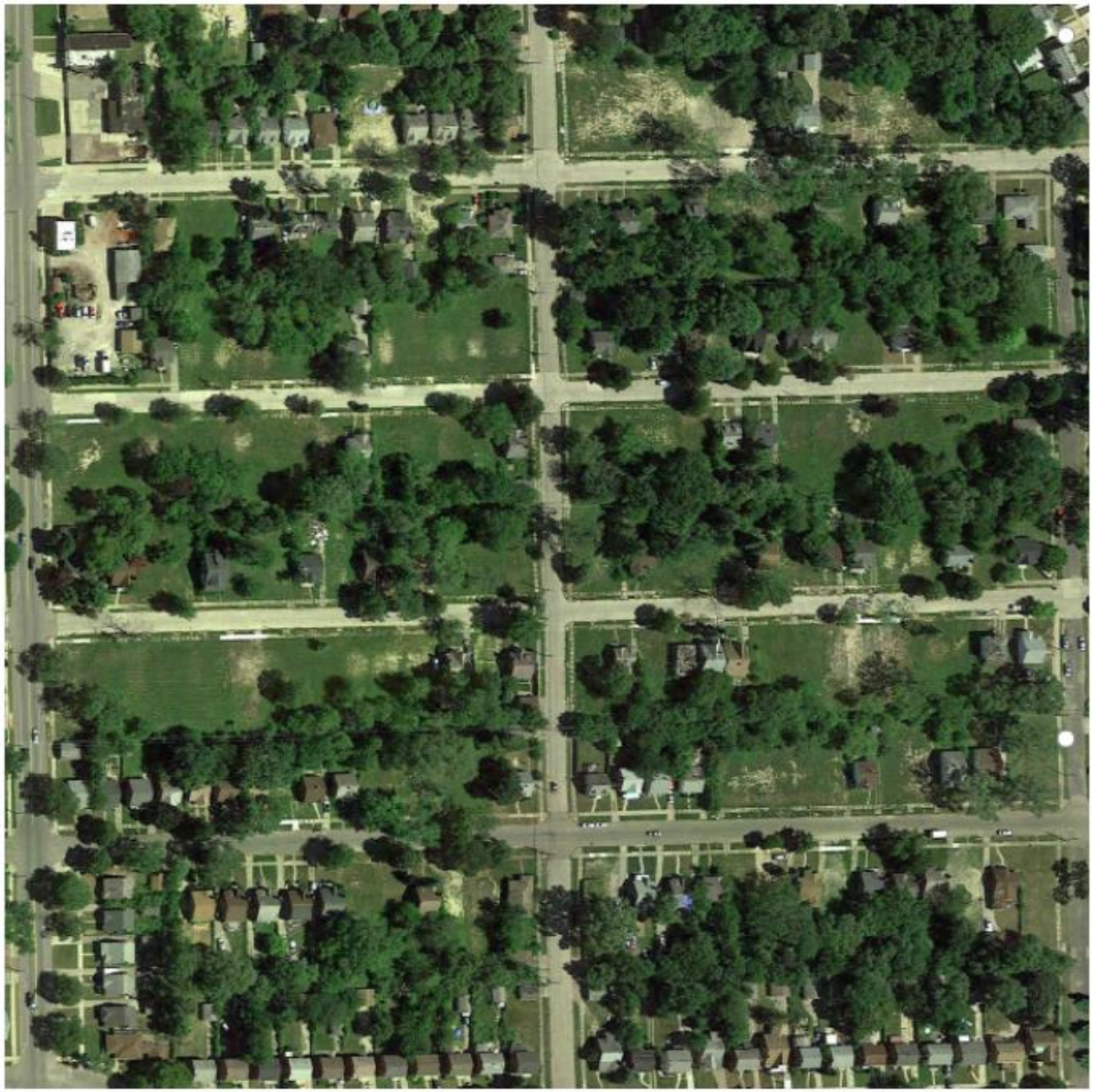
Nashville **in 2018**



Detroit **in 2013**



Detroit **in 2018**



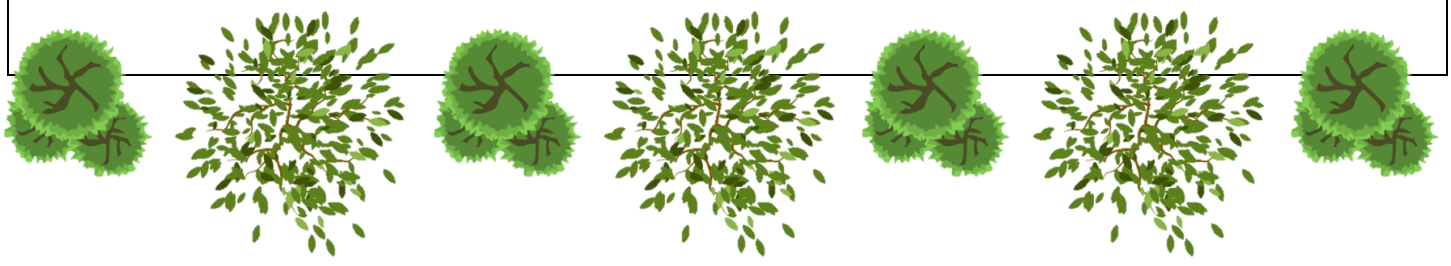
Is This City Green?

September 12, 2001 Photo of New York
What do you notice about this photo the most?

Flooding Increases in Charleston, South Carolina
What do you see different about the developed areas?

Flooding Near Sydney, Australia
Look at the left side of the pictures. What are possible reasons that there is more brown in the right image then the left image? Explain your reasoning.

Bishan Park, Singapore
What are three differences you notice between the pictures? What are possible causes for these changes?



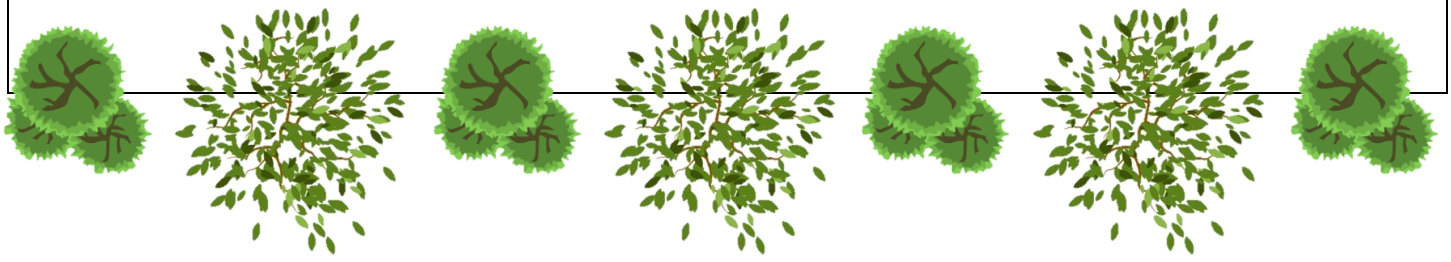
Loudon County, VA
Many people moved into this area in 6 years. What are some possible problems that exist since most of the vegetation was cut down?

Gilbert, AZ
This city normally has a hot, dry desert climate. Does Gilbert have more or less vegetation now than it did in 2012? What makes you think that?

Downtown Durham, NC
Why do you think that these maps show very little change for this city over time?

Nashville
When you look at both of these images, can you describe what the different green space might be? What makes you think that?

Detroit
In the first photo there are more houses than in the second photo. Sometimes cities reclaim areas by tearing down old construction. What else do you notice that is different? Is there anything you wonder about?



Thoughts About Trees Survey

Do you have any trees that are near where you live? Yes No

Do you know what types of trees they are or how many trees?

The number of trees I am thinking about is….
Too many Too few Just the right amount

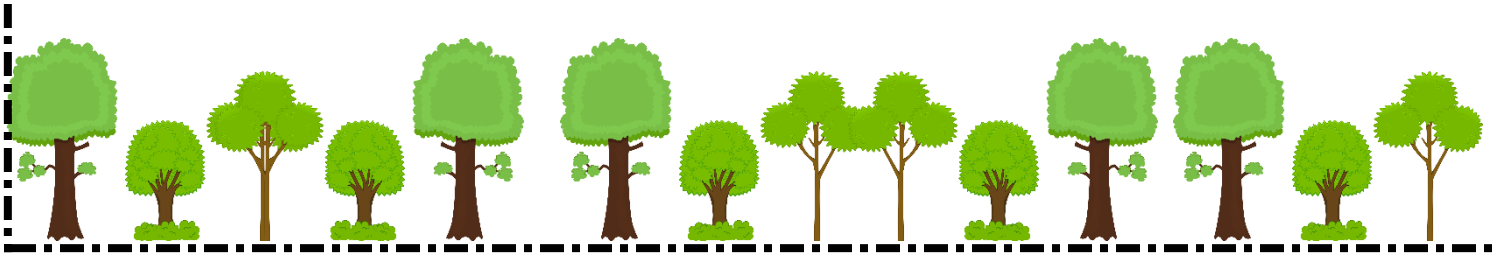
Do you think it is important to have trees or vegetation in
cities? Yes No
small towns? Yes No
the country? Yes No

Why is your reason for your answer?

What is a positive thing that trees/vegetation do for humans?

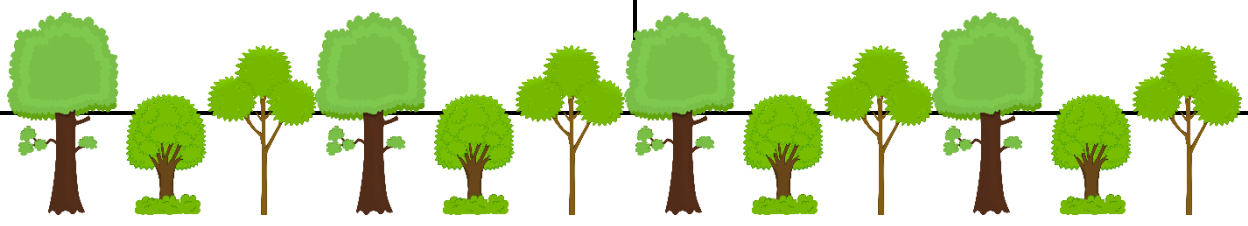
Do you see any problem with the trees/vegetation you have? If so, what?

Do you have any other thoughts about trees in cities?



Making a Tree-mendous Impact

What are ways that humans have impacted the amount of vegetation (trees, shrubs, plants, etc.) where they live over time?	What are decisions that people can make to help protect vegetation in cities?



Ideation

In design thinking, ideation means coming up with many different ideas to solve the problem, discussing them with others, improving on them, and then recommending one of the ways to solve the problem.

1. Look at and think about the data that the class collected about treas.
2. What are some of the problems that people identified regarding the trees?

3. Select one of the problems discussed by your class for your group to work on in this activity?
   The problem we select is:

4. What are possible ways that this problem could be solved?

5. Pick one of these ideas to solve the problem that you will share with the class. We picked:

6. Suggestions our class members gave us to make the solution even better.

