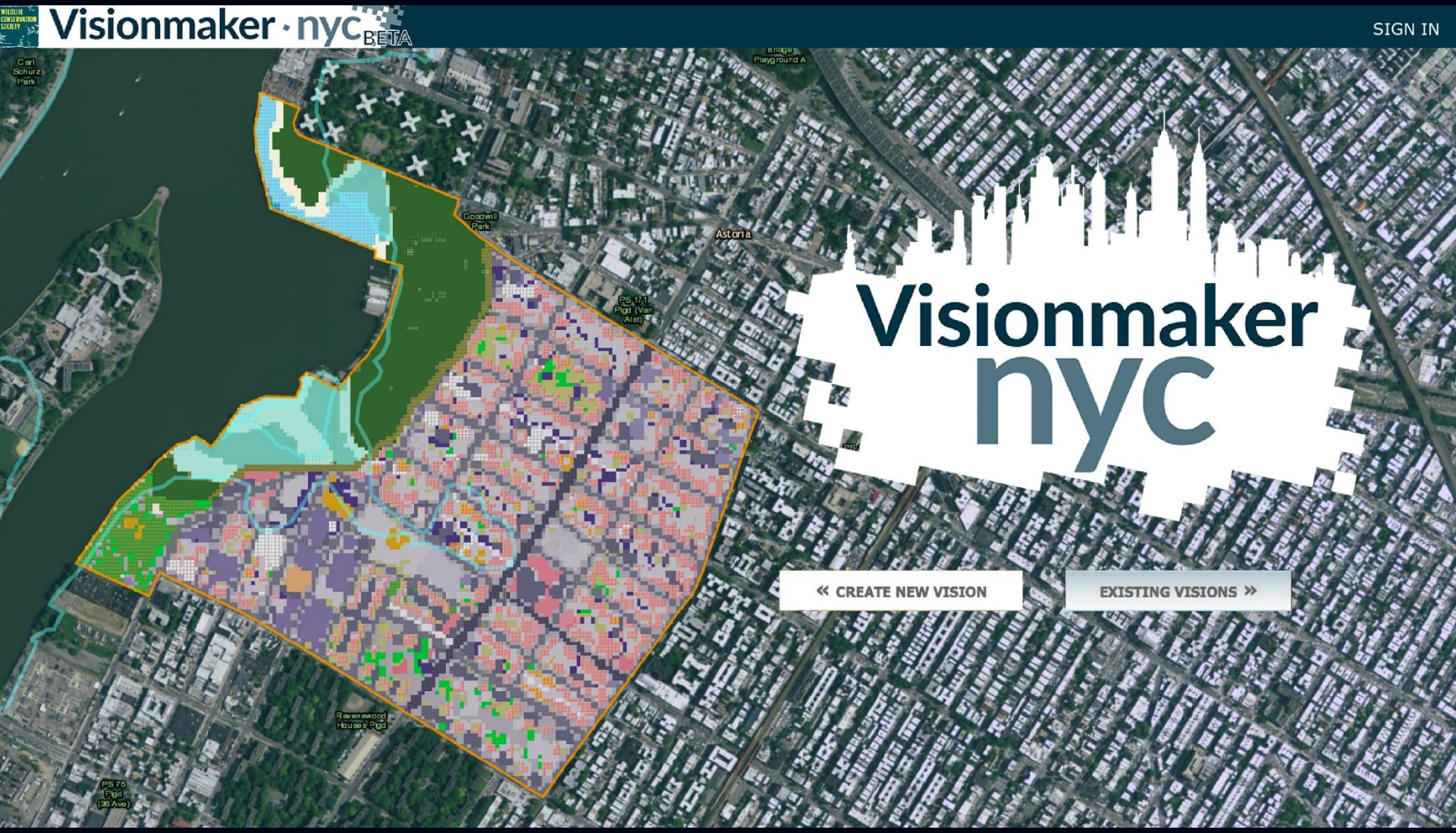
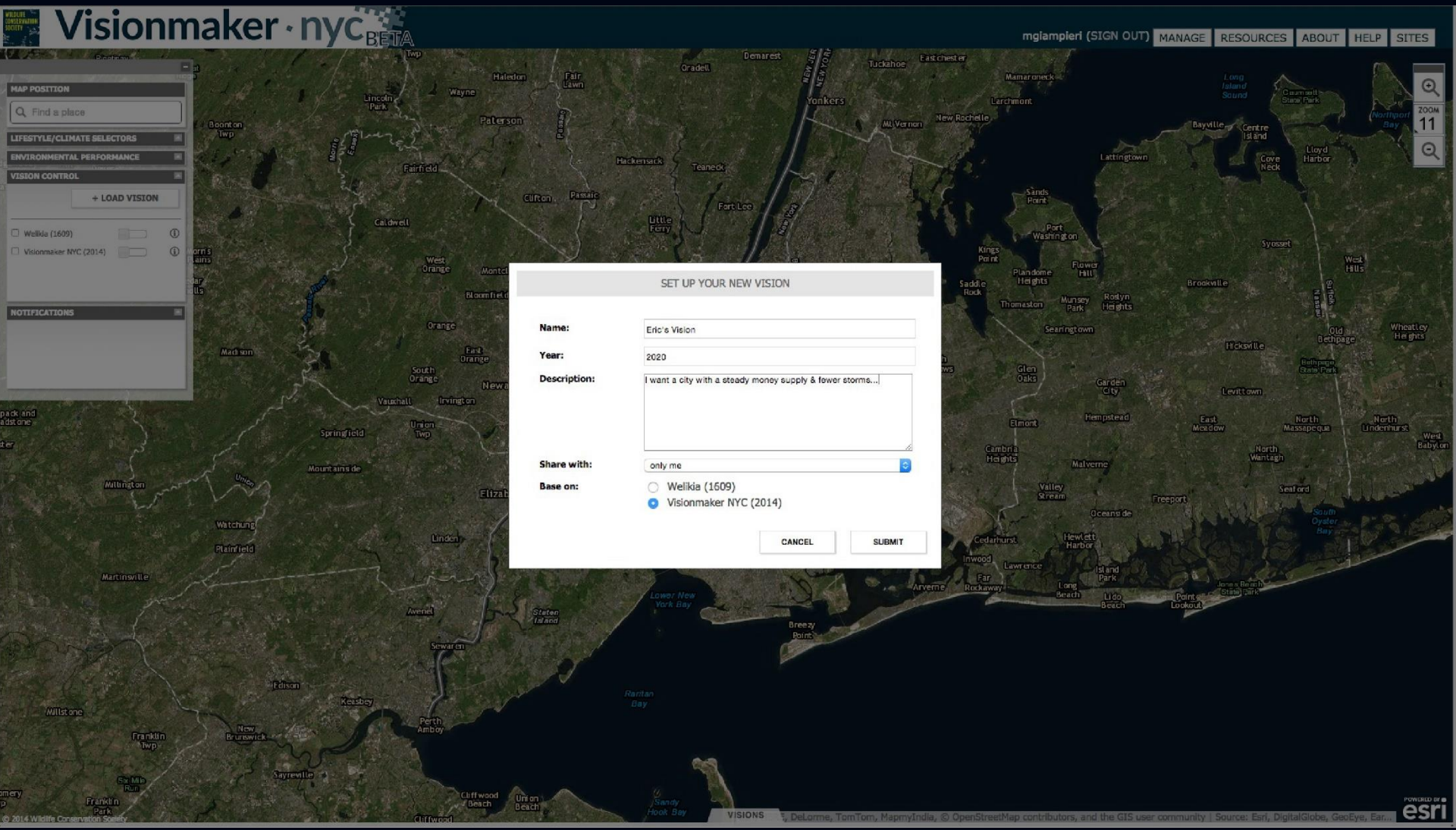
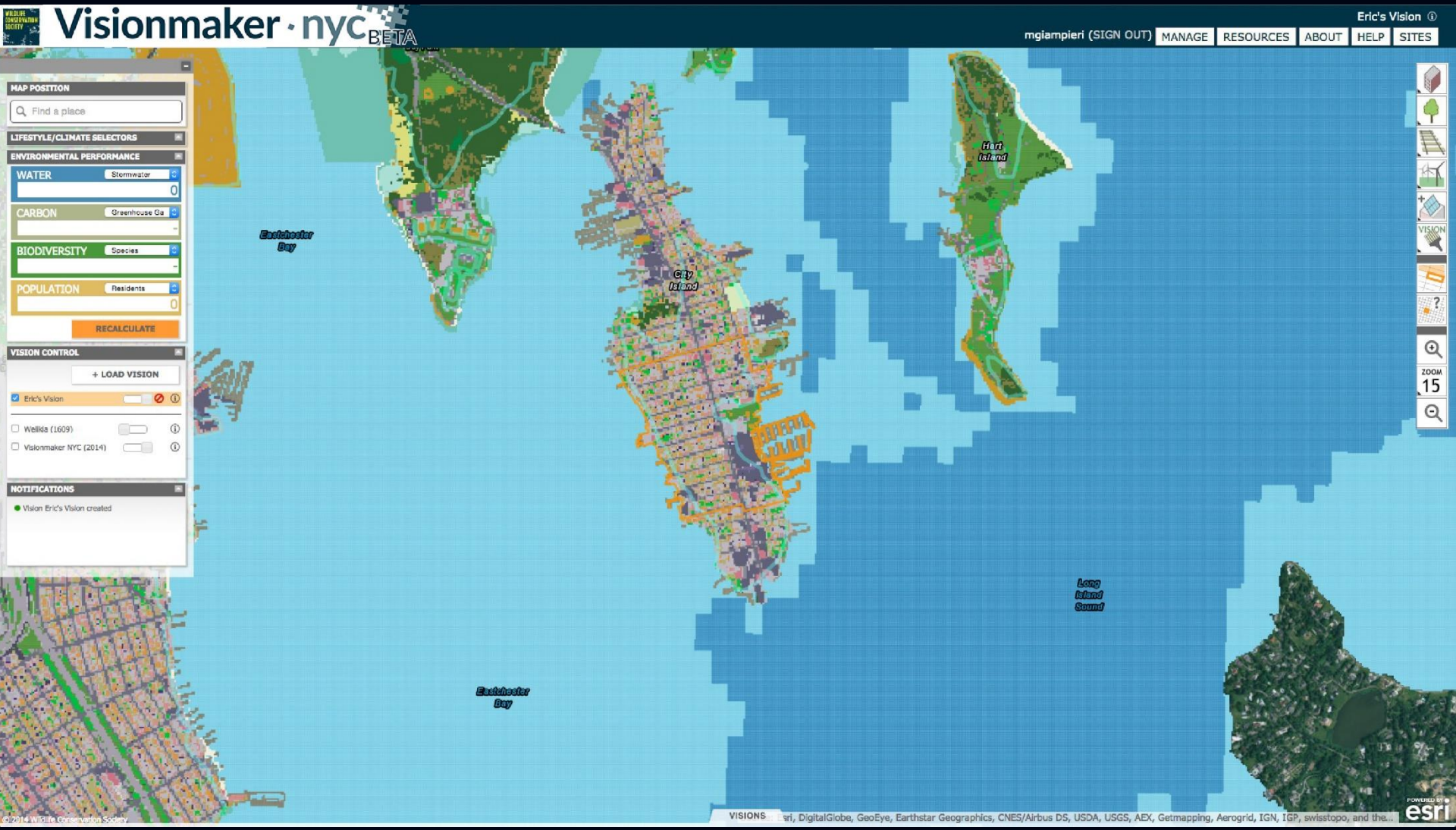
Visionmaker NYC
A New Web-Based Urban Sustainability Visioning Tool

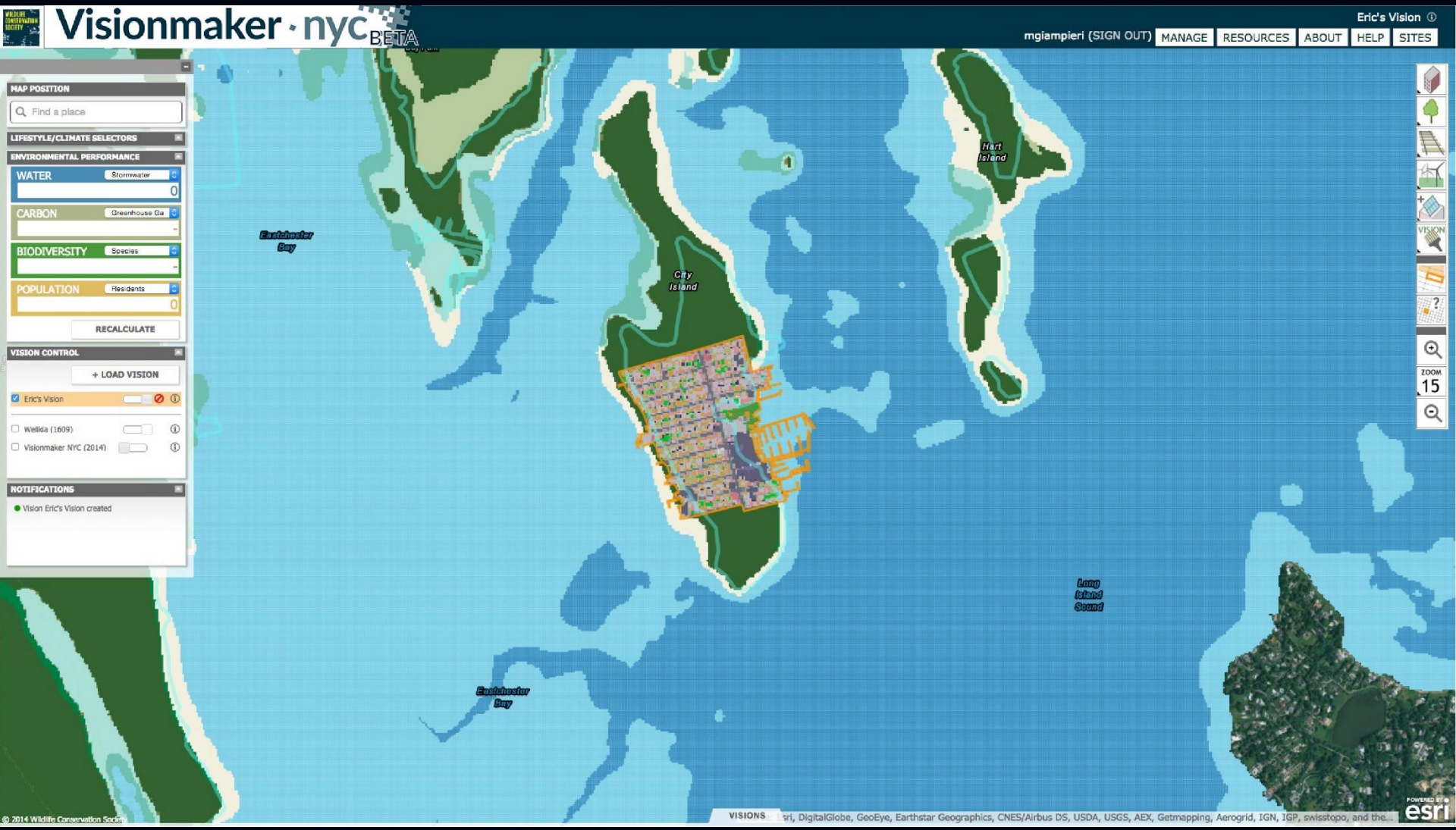
Kim Fisher and Mario Giampieri
Wildlife Conservation Society

NY GeoCon
October 30, 2015


Visionmaker · nyc BETA
SIGN IN
Carl Schurz Park
Goodwill Park
Astoria
PS 171 Pkgd (Van Alst)
Ravenswood Houses Pkgd
PS 70 Pkgd (36 Ave)
Visionmaker
nyc
« CREATE NEW VISION
EXISTING VISIONS »


Visionmaker · nyc BETA
mglampieri (SIGN OUT)
MANAGE
RESOURCES
ABOUT
HELP
SITES
MAP POSITION
Find a place
LIFESTYLE/CLIMATE SELECTORS
ENVIRONMENTAL PERFORMANCE
VISION CONTROL
+ LOAD VISION
Welikia (1609)
Visionmaker NYC (2014)
NOTIFICATIONS
ZOOM
11
SET UP YOUR NEW VISION
Name:
Eric's Vision
Year:
2020
Description:
I want a city with a steady money supply & fewer storms...
Share with:
only me
Base on:
Welikia (1609)
Visionmaker NYC (2014)
CANCEL
SUBMIT
VISIONS
© 2014 Wildlife Conservation Society
esri


Visionmaker · nyc BETA
Eric's Vision
mgiampieri (SIGN OUT)
MANAGE
RESOURCES
ABOUT
HELP
SITES
MAP POSITION
Find a place
LIFESTYLE/CLIMATE SELECTORS
ENVIRONMENTAL PERFORMANCE
WATER
Stormwater
CARBON
Greenhouse Ga
BIODIVERSITY
Species
POPULATION
Residents
RECALCULATE
VISION CONTROL
+ LOAD VISION
Eric's Vision
Wellkia (1609)
Visionmaker NYC (2014)
NOTIFICATIONS
Vision Eric's Vision created
Eastchester Bay
City Island
Hart Island
Long Island Sound
Eastchester Bay
ZOOM 15
VISIONS
esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the...
©2014 Wildlife Conservation Society


Visionmaker · nyc BETA
Eric's Vision
mgiampieri (SIGN OUT)
MANAGE
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ABOUT
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SITES
MAP POSITION
Find a place
LIFESTYLE/CLIMATE SELECTORS
ENVIRONMENTAL PERFORMANCE
WATER
Stormwater
0
CARBON
Greenhouse Ga
BIODIVERSITY
Species
POPULATION
Residents
0
RECALCULATE
VISION CONTROL
+ LOAD VISION
Eric's Vision
Wellida (1609)
Visionmaker NYC (2014)
NOTIFICATIONS
Vision Eric's Vision created
Eastchester Bay
City Island
Hart Island
Long Island Sound
Eastchester Bay
ZOOM
15
VISIONS
esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the...
POWERED BY esri
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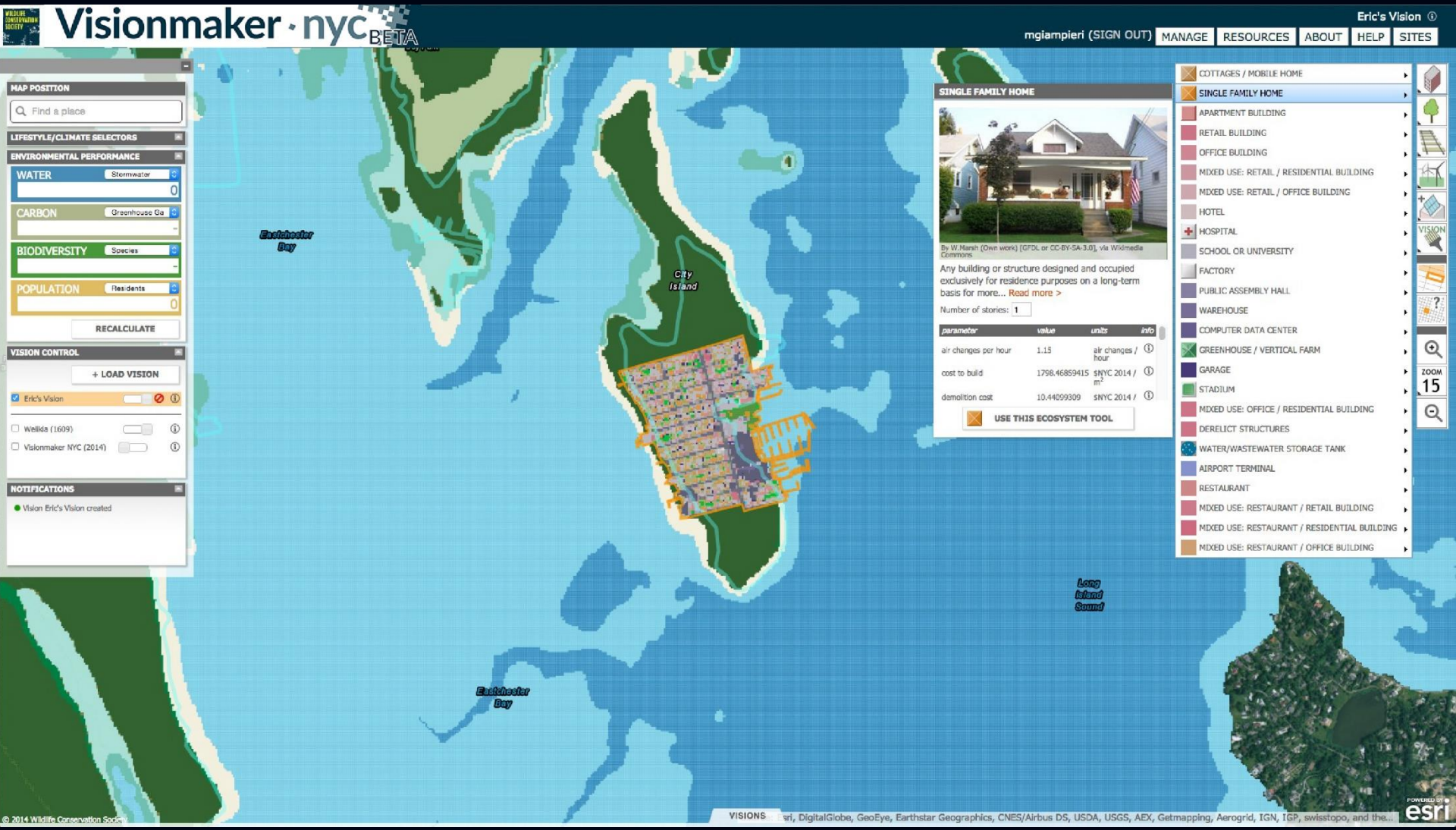
Visionmaker · nyc BETA
Eric's Vision
mgiampieri (SIGN OUT)
MANAGE
RESOURCES
ABOUT
HELP
SITES
MAP POSITION
Find a place
LIFESTYLE/CLIMATE SELECTORS
ENVIRONMENTAL PERFORMANCE
WATER
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CARBON
Greenhouse Ga
BIODIVERSITY
Species
POPULATION
Residents
RECALCULATE
VISION CONTROL
+ LOAD VISION
Eric's Vision
Wellida (1609)
Visionmaker NYC (2014)
NOTIFICATIONS
Vision Eric's Vision created
Eastchester Bay
City Island
Long Island Sound
SINGLE FAMILY HOME
By W.Marsh (Own work) [GFDL or CC-BY-SA-3.0], via Wikimedia Commons
Any building or structure designed and occupied exclusively for residence purposes on a long-term basis for more... Read more >
Number of stories: 1
parameter
value
units
info
air changes per hour
1.15
air changes / hour
cost to build
1798.46859415
$NYC 2014 / m²
demolition cost
10.44099309
$NYC 2014 /
USE THIS ECOSYSTEM TOOL
COTTAGES / MOBILE HOME
SINGLE FAMILY HOME
APARTMENT BUILDING
RETAIL BUILDING
OFFICE BUILDING
MIXED USE: RETAIL / RESIDENTIAL BUILDING
MIXED USE: RETAIL / OFFICE BUILDING
HOTEL
HOSPITAL
SCHOOL OR UNIVERSITY
FACTORY
PUBLIC ASSEMBLY HALL
WAREHOUSE
COMPUTER DATA CENTER
GREENHOUSE / VERTICAL FARM
GARAGE
STADIUM
MIXED USE: OFFICE / RESIDENTIAL BUILDING
DERELICT STRUCTURES
WATER/WASTEWATER STORAGE TANK
AIRPORT TERMINAL
RESTAURANT
MIXED USE: RESTAURANT / RETAIL BUILDING
MIXED USE: RESTAURANT / RESIDENTIAL BUILDING
MIXED USE: RESTAURANT / OFFICE BUILDING
VISION
ZOOM 15
VISIONS
esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the...
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Visionmaker · nyc BETA
Eric's Vision
mgiampieri (SIGN OUT)
MANAGE
RESOURCES
ABOUT
HELP
SITES
MAP POSITION
Find a place
LIFESTYLE/CLIMATE SELECTORS
Lenape Person
Average New Yorker
Average American
Eco-hipster
Average Earthling
PRECIPITATION EVENT
Showers
ENVIRONMENTAL PERFORMANCE
WATER
Stormwater
CARBON
Greenhouse Ga
BIODIVERSITY
Species
POPULATION
Residents
RECALCULATE
VISION CONTROL
+ LOAD VISION
Eric's Vision
Wellida (1609)
Visionmaker NYC (2014)
Lifestyle Selector
ZOOM 17
VISIONS
© 2014 Wildlife Conservation Society
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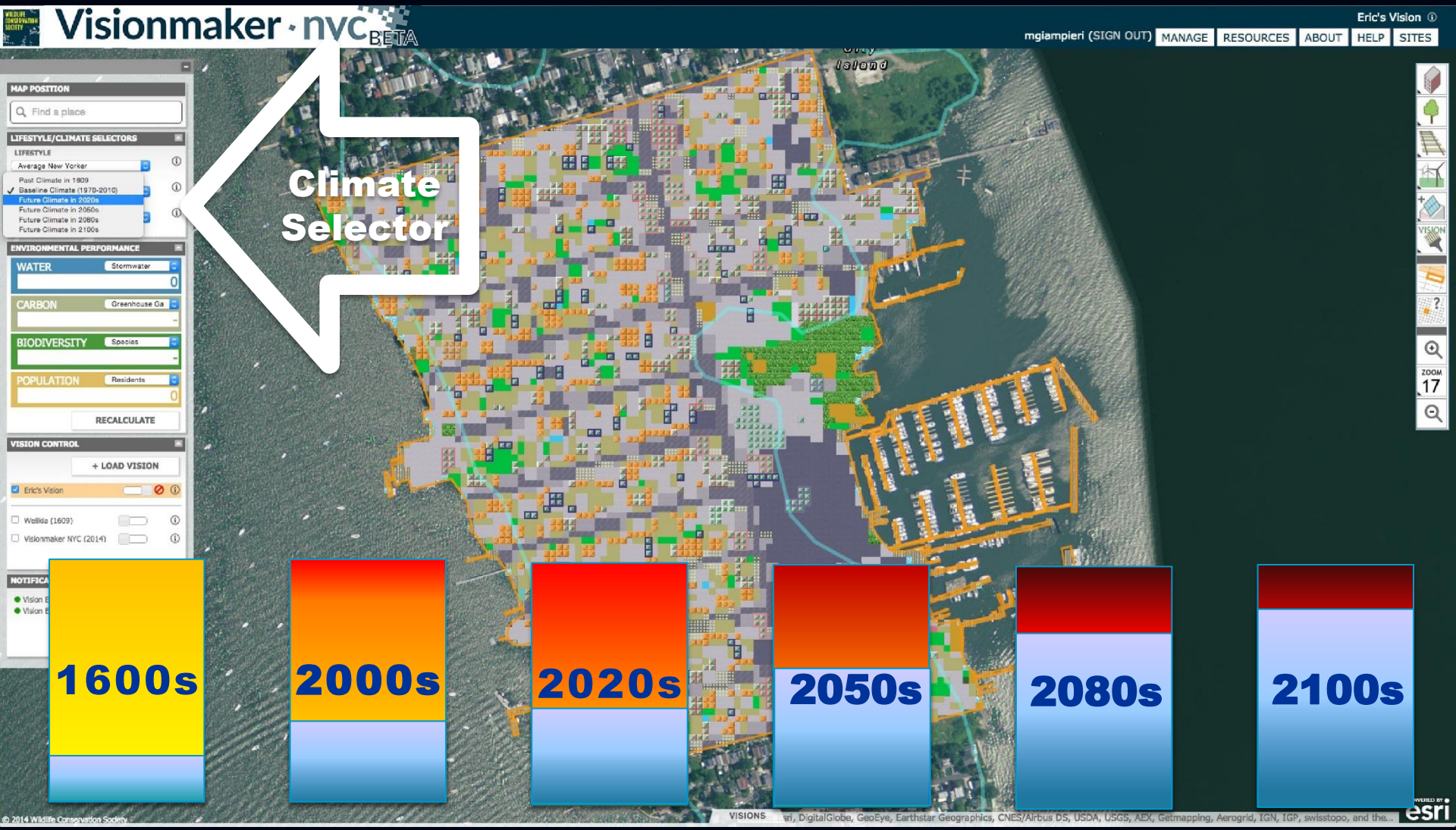
Visionmaker · nyc BETA
Eric's Vision
mgiampieri (SIGN OUT)
MANAGE
RESOURCES
ABOUT
HELP
SITES
MAP POSITION
Find a place
LIFESTYLE/CLIMATE SELECTORS
LIFESTYLE
Average New Yorker
Past Climate in 1809
Baseline Climate (1970-2010)
Future Climate in 2020s
Future Climate in 2050s
Future Climate in 2080s
Future Climate in 2100s
Climate Selector
ENVIRONMENTAL PERFORMANCE
WATER
Stormwater
CARBON
Greenhouse Ga
BIODIVERSITY
Species
POPULATION
Residents
RECALCULATE
VISION CONTROL
+ LOAD VISION
Eric's Vision
Wellida (1609)
Visionmaker NYC (2014)
ZOOM
17
1600s
2000s
2020s
2050s
2080s
2100s
VISIONS
esri
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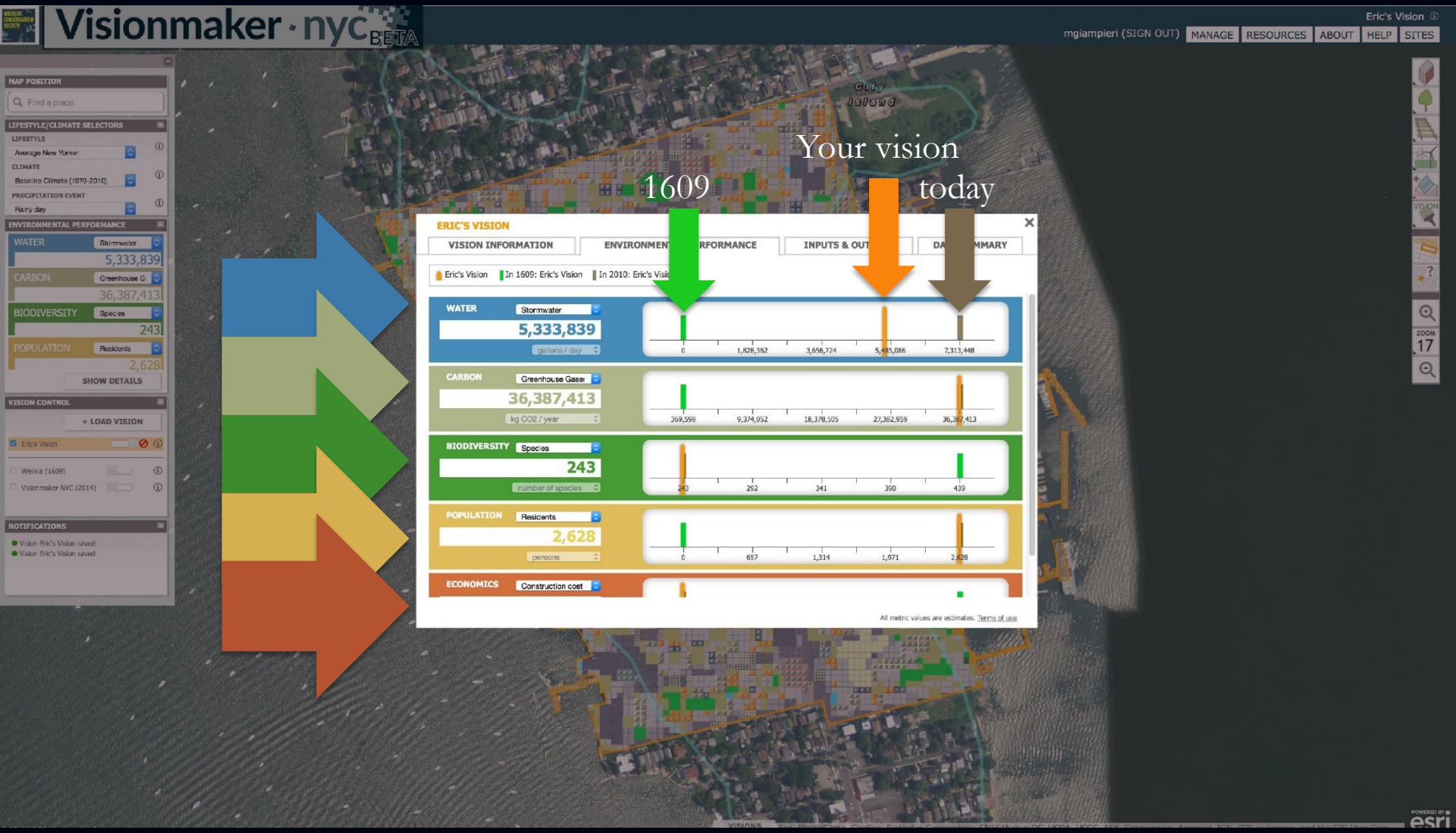
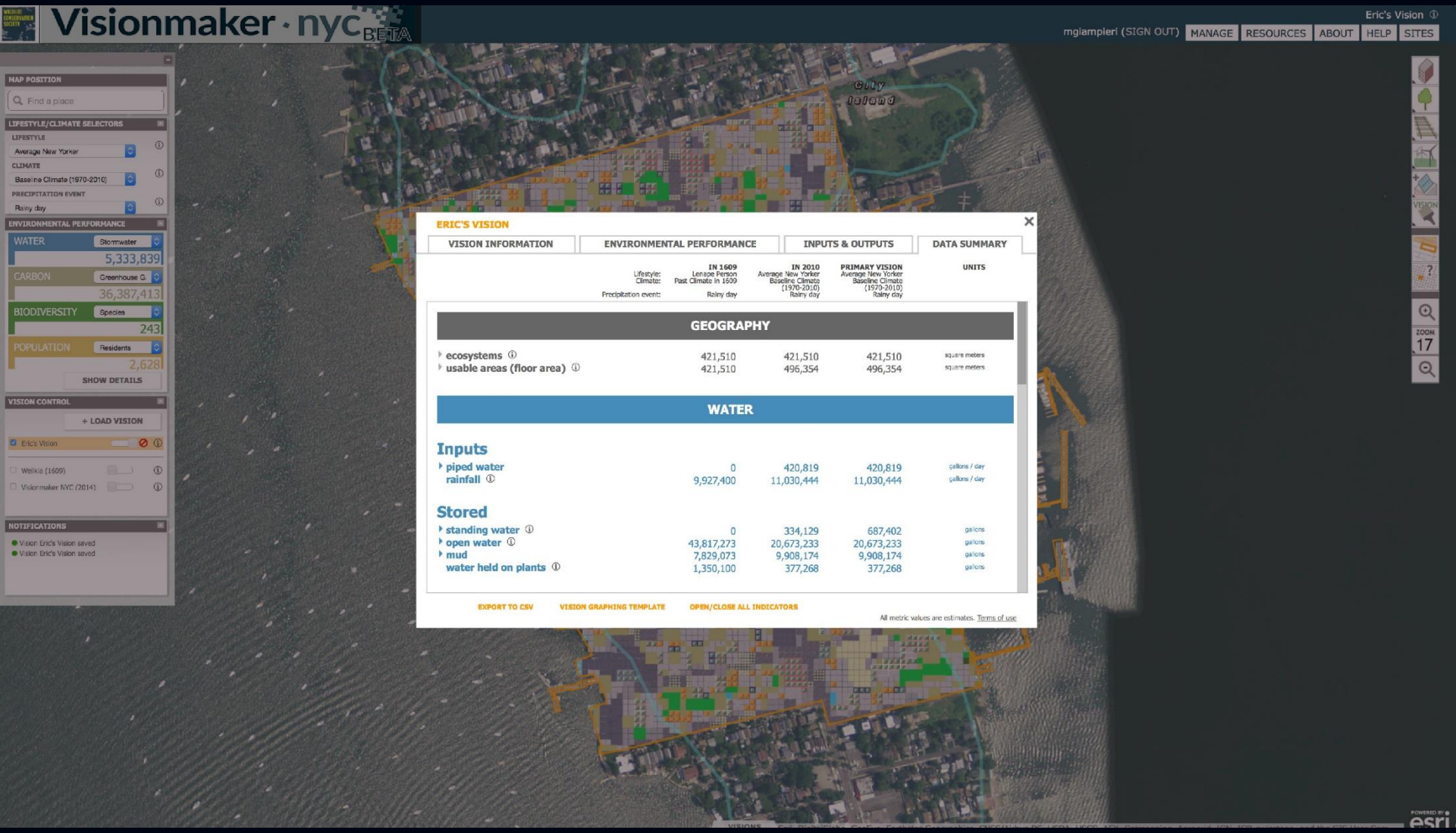

Visionmaker · nyc BETA
Eric's Vision
mgiampieri (SIGN OUT)
MANAGE
RESOURCES
ABOUT
HELP
SITES
City Island
Your vision
1609
today
ERIC'S VISION
VISION INFORMATION
ENVIRONMENTAL PERFORMANCE
INPUTS & OUTPUTS
DATA SUMMARY
Eric's Vision
In 1609: Eric's Vision
In 2010: Eric's Vision
WATER
Stormwater
5,333,839
gallons / day
0
1,828,362
3,656,724
5,485,086
7,313,448
CARBON
Greenhouse Gases
36,387,413
kg CO2 / year
369,598
9,374,052
18,378,505
27,382,959
36,387,413
BIODIVERSITY
Species
243
number of species
243
292
341
390
439
POPULATION
Residents
2,628
persons
0
657
1,314
1,971
2,628
ECONOMICS
Construction cost
All metric values are estimates. Terms of use
MAP POSITION
Find a place
LIFESTYLE/CLIMATE SELECTORS
LIFESTYLE
Average New Yorker
CLIMATE
Baseline Climate (1970-2010)
PRECIPITATION EVENT
Rainy day
ENVIRONMENTAL PERFORMANCE
WATER
Stormwater
5,333,839
CARBON
Greenhouse G...
36,387,413
BIODIVERSITY
Species
243
POPULATION
Residents
2,628
SHOW DETAILS
VISION CONTROL
+ LOAD VISION
Eric's Vision
Welike (1609)
Visionmaker NYC (2014)
NOTIFICATIONS
Vision Eric's Vision saved
Vision Eric's Vision saved
ZOOM
17
VISIONS
esri


Visionmaker · nyc BETA
Eric's Vision
mgiampieri (SIGN OUT)
MANAGE
RESOURCES
ABOUT
HELP
SITES
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Find a place
LIFESTYLE/CLIMATE SELECTORS
LIFESTYLE
Average New Yorker
CLIMATE
Baseline Climate (1970-2010)
PRECIPITATION EVENT
Rainy day
ENVIRONMENTAL PERFORMANCE
WATER
Stormwater
5,333,839
CARBON
Greenhouse G
36,387,413
BIODIVERSITY
Species
243
POPULATION
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2,628
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VISION CONTROL
+ LOAD VISION
Eric's Vision
Welikia (1609)
Visionmaker NYC (2014)
NOTIFICATIONS
Vision Eric's Vision saved
Vision Eric's Vision saved
City Island
ERIC'S VISION
VISION INFORMATION
ENVIRONMENTAL PERFORMANCE
INPUTS & OUTPUTS
DATA SUMMARY
IN 1609
Lenape Person
Past Climate in 1609
Rainy day
IN 2010
Average New Yorker
Baseline Climate
(1970-2010)
Rainy day
PRIMARY VISION
Average New Yorker
Baseline Climate
(1970-2010)
Rainy day
UNITS
Lifestyle:
Climate:
Precipitation event:
GEOGRAPHY
ecosystems
421,510
421,510
421,510
square meters
usable areas (floor area)
421,510
496,354
496,354
square meters
WATER
Inputs
piped water
0
420,819
420,819
gallons / day
rainfall
9,927,400
11,030,444
11,030,444
gallons / day
Stored
standing water
0
334,129
687,402
gallons
open water
43,817,273
20,673,233
20,673,233
gallons
mud
7,829,073
9,908,174
9,908,174
gallons
water held on plants
1,350,100
377,268
377,268
gallons
EXPORT TO CSV
VISION GRAPHING TEMPLATE
OPEN/CLOSE ALL INDICATORS
All metric values are estimates. Terms of use
ZOOM
17
POWERED BY esri


Visionmaker · nyc BETA
Eric's Vision
mgiampieri (SIGN OUT)
MANAGE
RESOURCES
ABOUT
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MAP POSITION
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LIFESTYLE/CLIMATE SELECTORS
LIFESTYLE
Average New Yorker
CLIMATE
Baseline Climate (1970-2010)
PRECIPITATION EVENT
Showers
ENVIRONMENTAL PERFORMANCE
WATER
Stormwater
0
CARBON
Greenhouse Ga
36,387,413
BIODIVERSITY
Species
243
POPULATION
Residents
2,628
SHOW DETAILS
VISION CONTROL
+ LOAD VISION
Eric's Vision
Wellida (1609)
Visionmaker NYC (2014)
NOTIFICATIONS
Vision Eric's Vision saved
Vision Eric's Vision created
BRONXLIFE
AUTHOR: MGIAMPIERI
VISION YEAR: 1950
AREA: 1,823,315 M²
CREATED: JUN 23, 2015
VISIONS
ZOOM
17
NO IMAGE AVAILABLE
NO IMAGE AVAILABLE
Showing:: Public
Sort:: Year
« SEARCH
Showing first 200 out of 211. Try narrowing your criteria.
esri

Scaling Challenge: Web map painting

Client-side map painting and calculation in the browser

django

The Web framework for perfectionists with deadlines.
Django makes it easier to build better Web apps more quickly and with less code.

Meet Django

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design.

Developed by a fast-moving online-news operation, Django was designed to handle two challenges: the intensive deadlines of a newsroom and the stringent requirements of the experienced Web developers who wrote it. It lets you build high-performing, elegant Web applications quickly.

Django focuses on automating as much as possible and adhering to the DRY principle.

Dive in by reading the overview →

When you're ready to code, read the installation guide and tutorial.

The Django framework

Object-relational mapper

Define your data models entirely in Python. You get a rich, dynamic database-access API for free — but you can still write SQL if needed.

Automatic admin interface

Save yourself the tedious work of creating interfaces for people to add and update content. Django does that automatically, and it's production-ready.

Elegant URL design

Design pretty, cruft-free URLs with no framework-specific limitations. Be as flexible as you like.

Template system

Use Django's powerful, extensible and designer-friendly template language to separate design, content and Python code.

Cache system

Hook into memcached or other cache frameworks for super performance — caching is as granular as you need.

Internationalization

Django has full support for multi-language applications, letting you specify translation strings and providing hooks for language-specific functionality.

PostgreSQL

PostGIS

jQuery
write less, do more.

dojo

ubuntu

esri

BitNami

Installer
Django Stack 1.4.5 for Windows

Virtual Machine
Django Stack on VMware

Cloud Server
Django Stack on Amazon, Azure

Canvas with raster layer

View live sample
Download as a zip file

Description

This sample is experimental and may not work on all browsers. Visit caniuse.com to determine if the canvas element used in this sample is available for your browser.

This sample shows how to use the HTML5 Canvas element to draw a raster image. When the application loads a new layer that uses the HTML5 canvas element called RasterLayer is created and added to the map. This snippet, from the custom RasterLayer.js class shows the creation of a Canvas element with the same width and height as the map.

```
var element = this._element = dojo.create("canvas", {
width: map.width + "px",
height: map.height + "px",
style: "position: absolute; left: 0px; top: 0px;"
}, container);
```

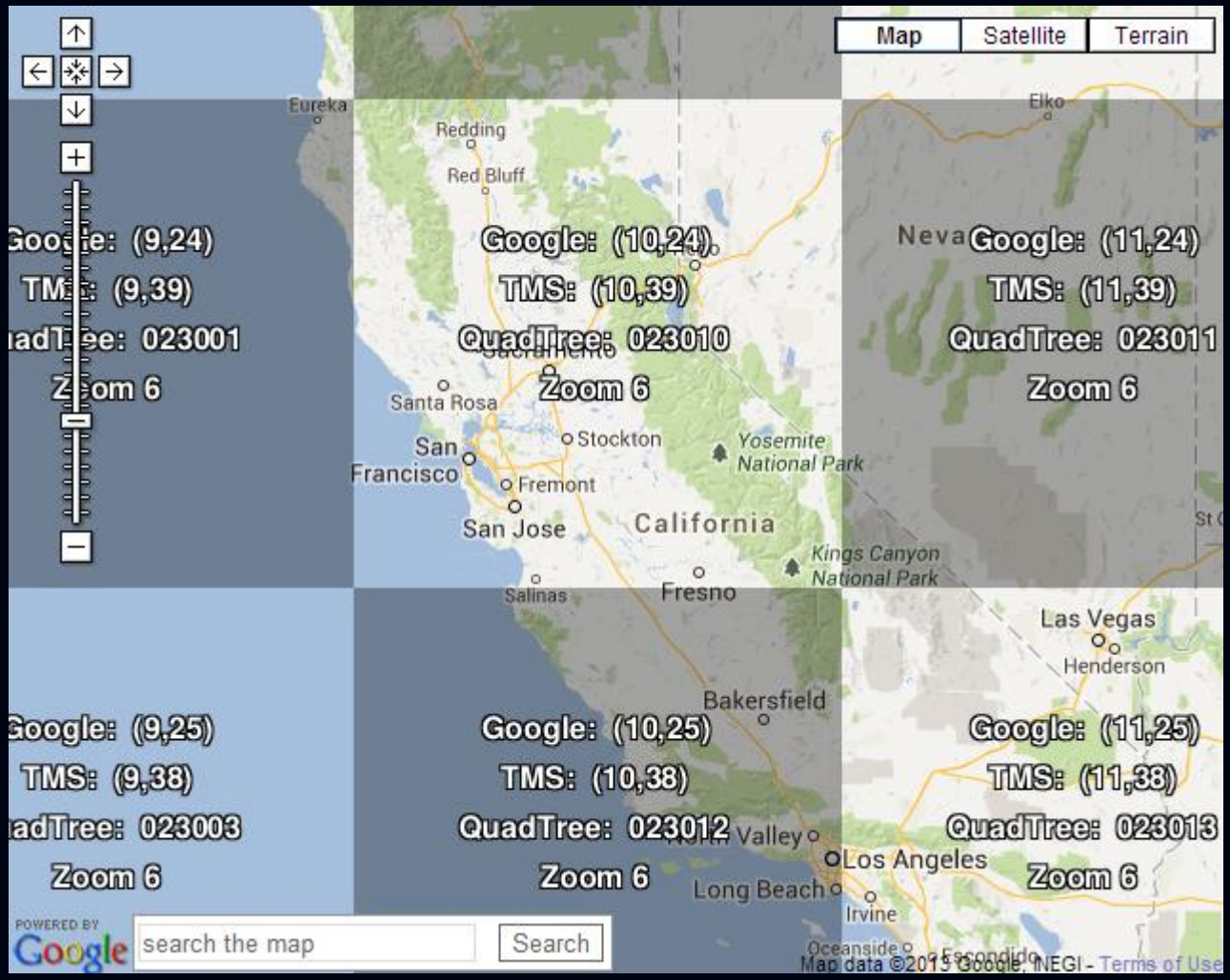
The newly added raster layer is populated with elevation data from using the Elevation Server Object Extension from one of Esri's sample servers. Now that IE9 is released, canvas is supported on all major browsers so rendering raster images using the Canvas element could provide a way to display client-side heat maps.

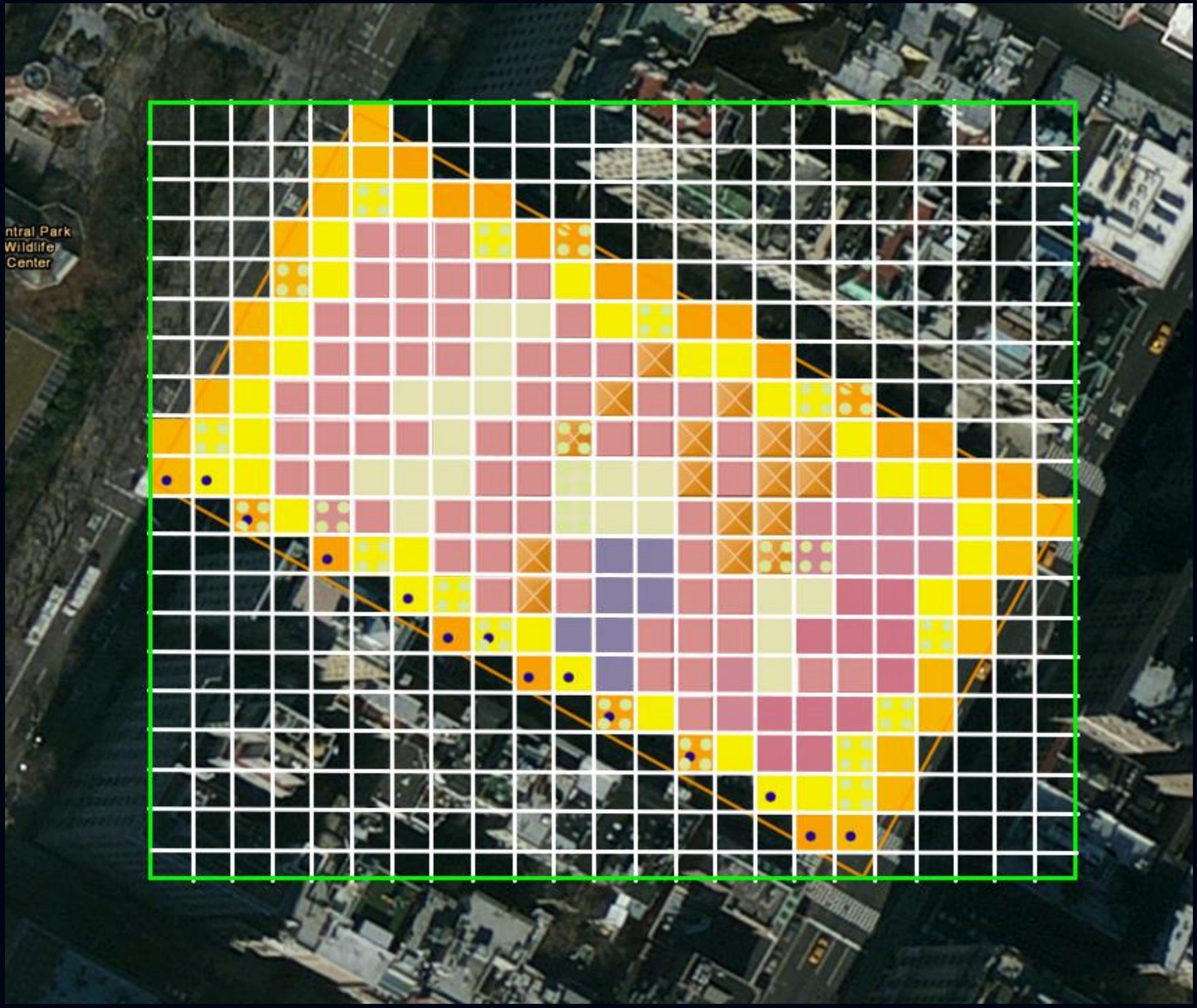
Code

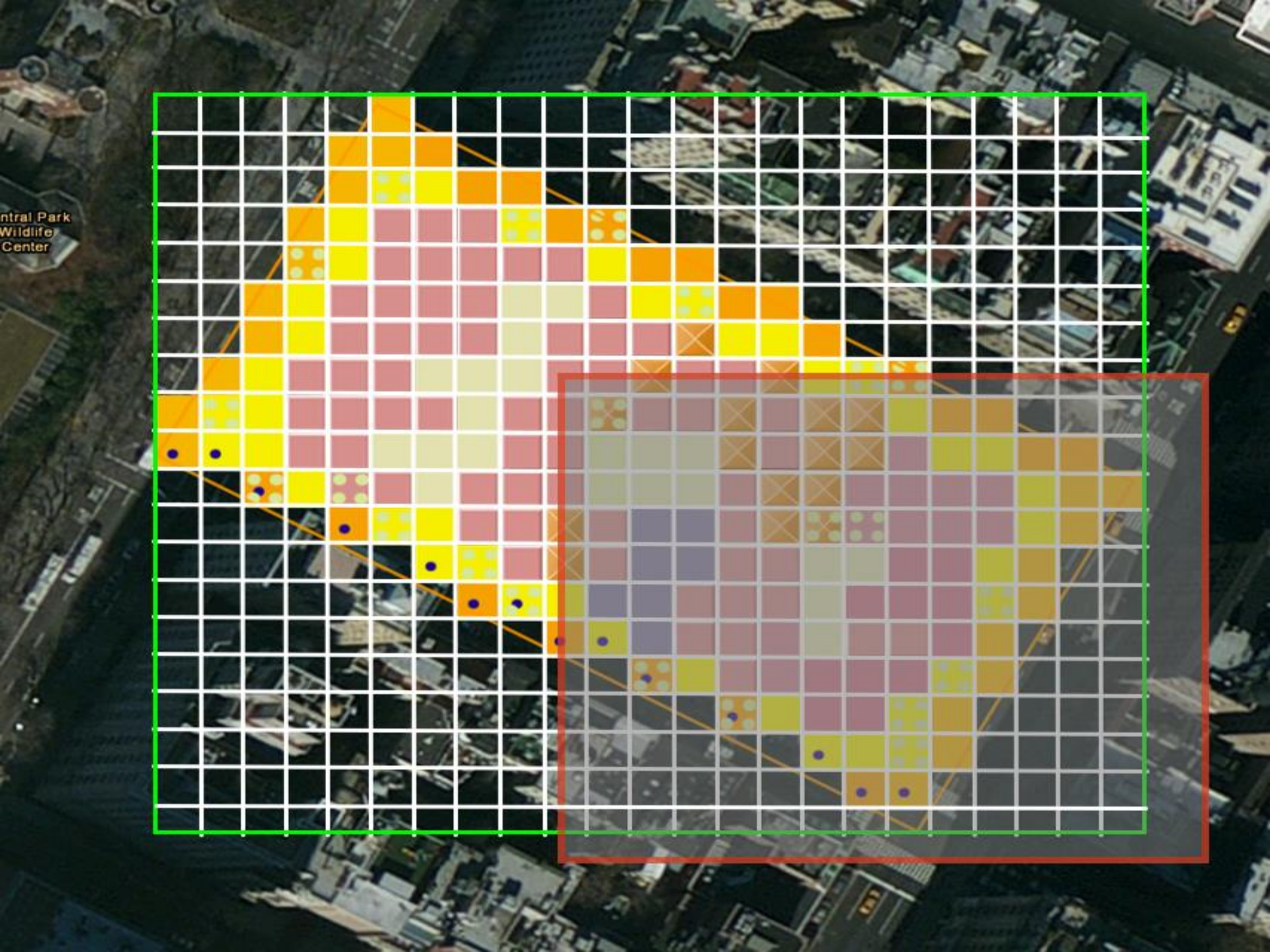
```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=7, IE=9, IE=10">
    <title>Raster Layer</title>

    <link rel="stylesheet" href="http://serverapi.arcgisonline.com/jsapi/arcgis/3.5/js/dojo/dijit/themes/claro/claro.css">
    <link rel="stylesheet" href="http://serverapi.arcgisonline.com/jsapi/arcgis/3.5/js/esri/css/esri.css">
    <style>
      html,body {
        width:98%;
        height:98%;
        margin: 0 1%;
        padding: 10px 0 0 0;
      }

      #mapCanvas {
        border:solid 1px #888;
        padding:0;
      }

      #status {
        background-color:#000;
        color:#FFF;
        border:solid 1px #FFF;
        -moz-border-radius:5px;
```

RasterLayer PoC

- Adapt the Esri sample to our use case
- 10 meter cells
- Click and drag the mouse to “paint” cells
- Just solid color fills at first (png fills later)
- Persist the cell values
- Raster layer should pan and zoom like other map layers
- Ensure support for multiple raster layers


Map
Satellite
Terrain
Eureka
Redding
Red Bluff
Elko
Google: (9,24)
TMS: (9,39)
QuadTree: 023001
Zoom 6
Google: (10,24)
TMS: (10,39)
QuadTree: 023010
Zoom 6
Google: (11,24)
TMS: (11,39)
QuadTree: 023011
Zoom 6
Santa Rosa
Stockton
San Francisco
Fremont
San Jose
Yosemite National Park
California
Kings Canyon National Park
Salinas
Fresno
Las Vegas
Henderson
Bakersfield
Google: (9,25)
TMS: (9,38)
QuadTree: 023003
Zoom 6
Google: (10,25)
TMS: (10,38)
QuadTree: 023012
Zoom 6
Google: (11,25)
TMS: (11,38)
QuadTree: 023013
Zoom 6
Los Angeles
Long Beach
Irvine
Oceanside
Escondido
POWERED BY Google
search the map
Search
Map data ©2015 Google, INEGI - Terms of Use


ntral Park
Wildlife
Center


ntral Park
Wildlife
Center

Possible Directions

- More robust and scalable
- Server-based calculation engine
- Improved user interface
- Finished, public API
- More metrics: economics, social justice, health, …
- Customization features: lifestyle, climate, ecosystem, classroom-related
- Other cities!

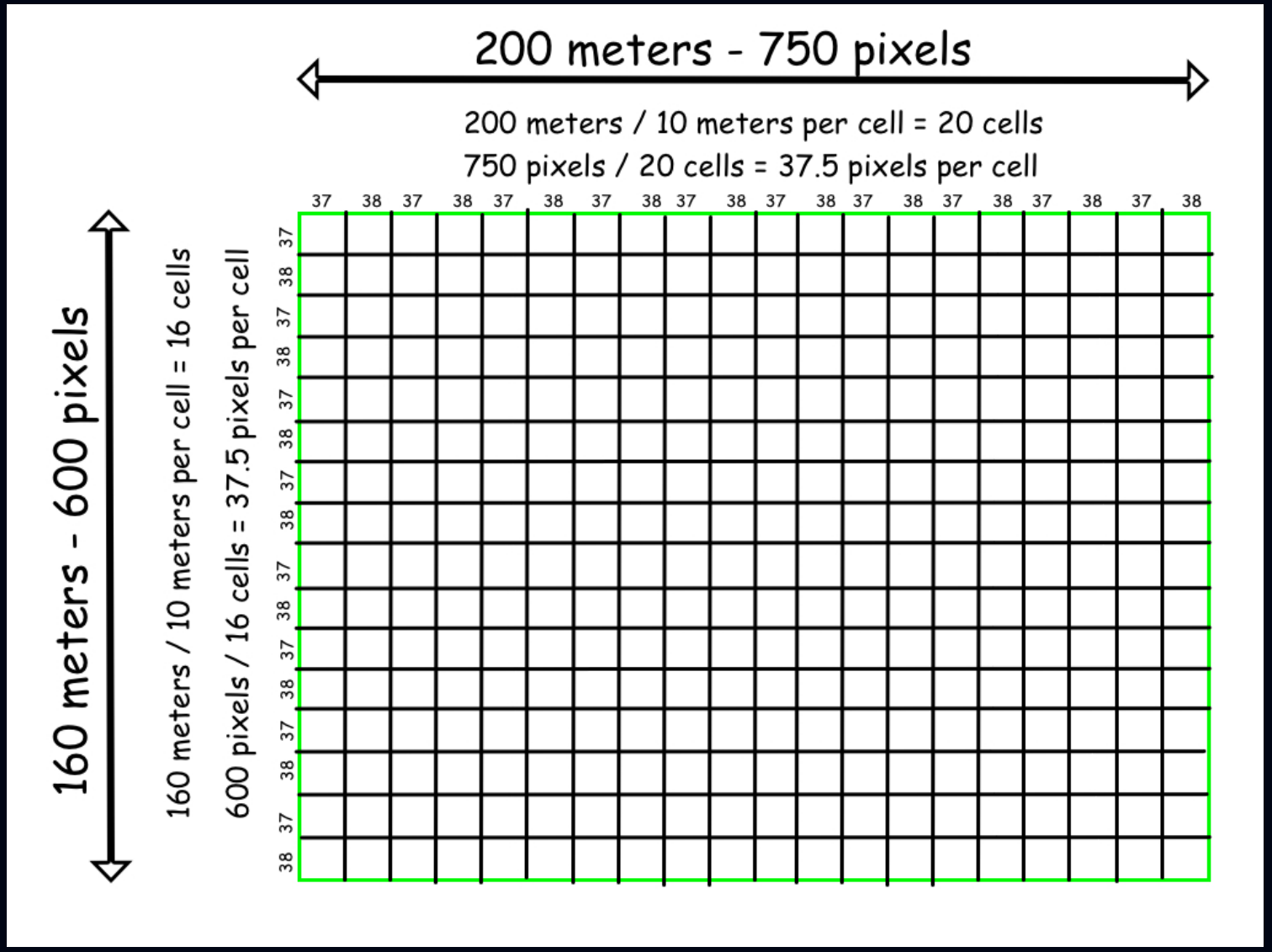
Thoughts?

Thanks!

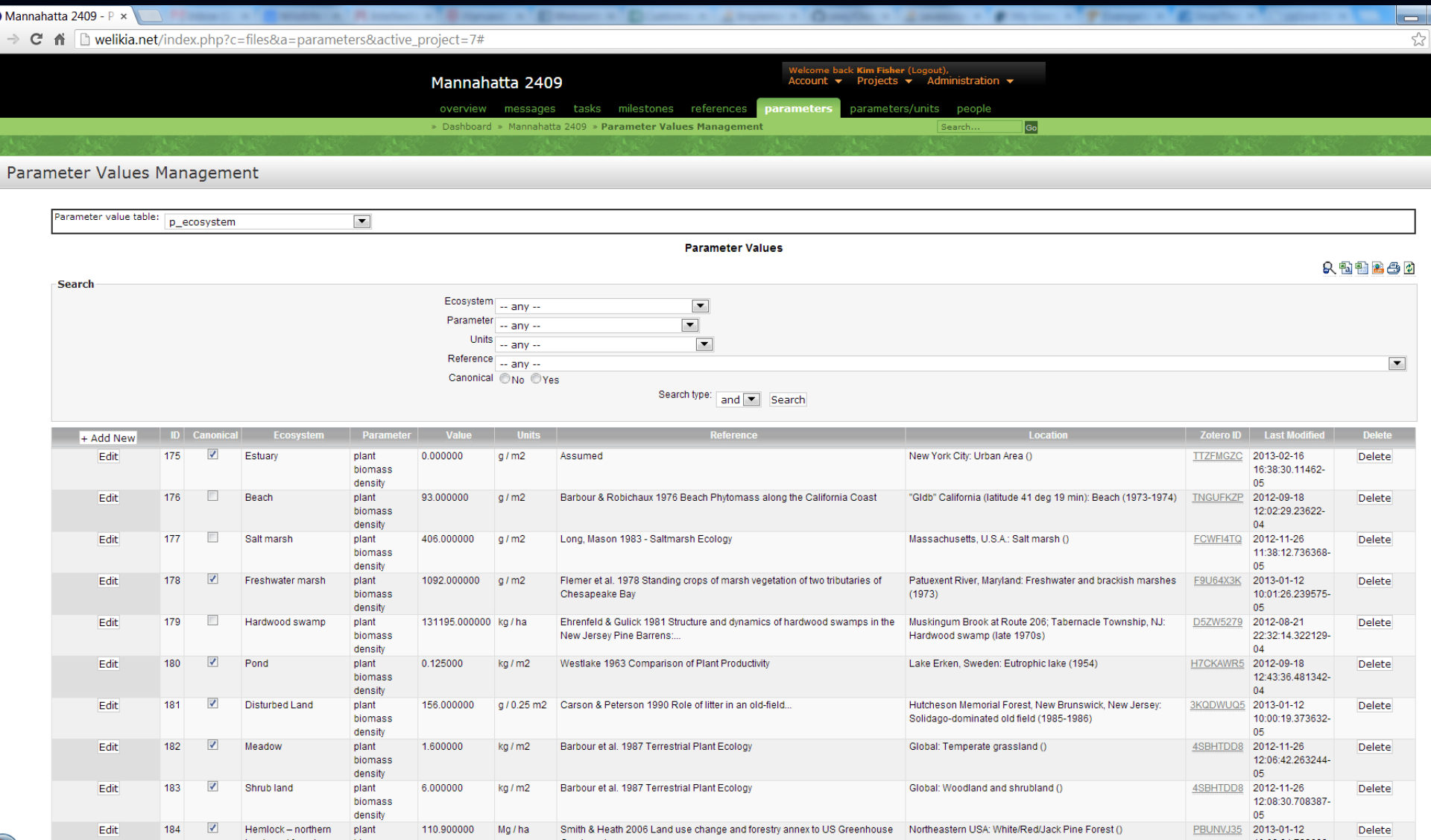
kfisher@wcs.org

mgiampieri@wcs.org

Calculating Cell Size

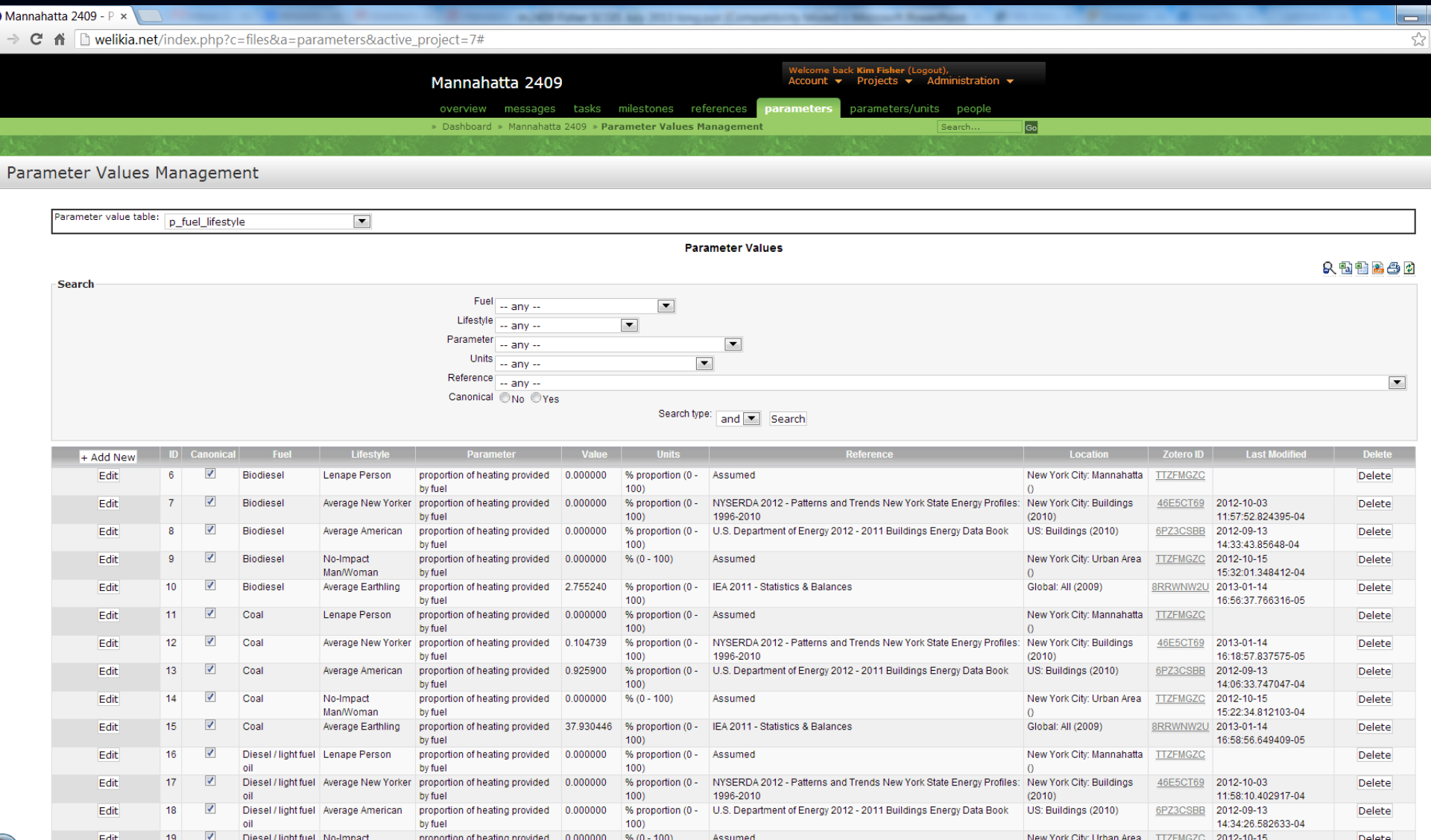


Parameter values



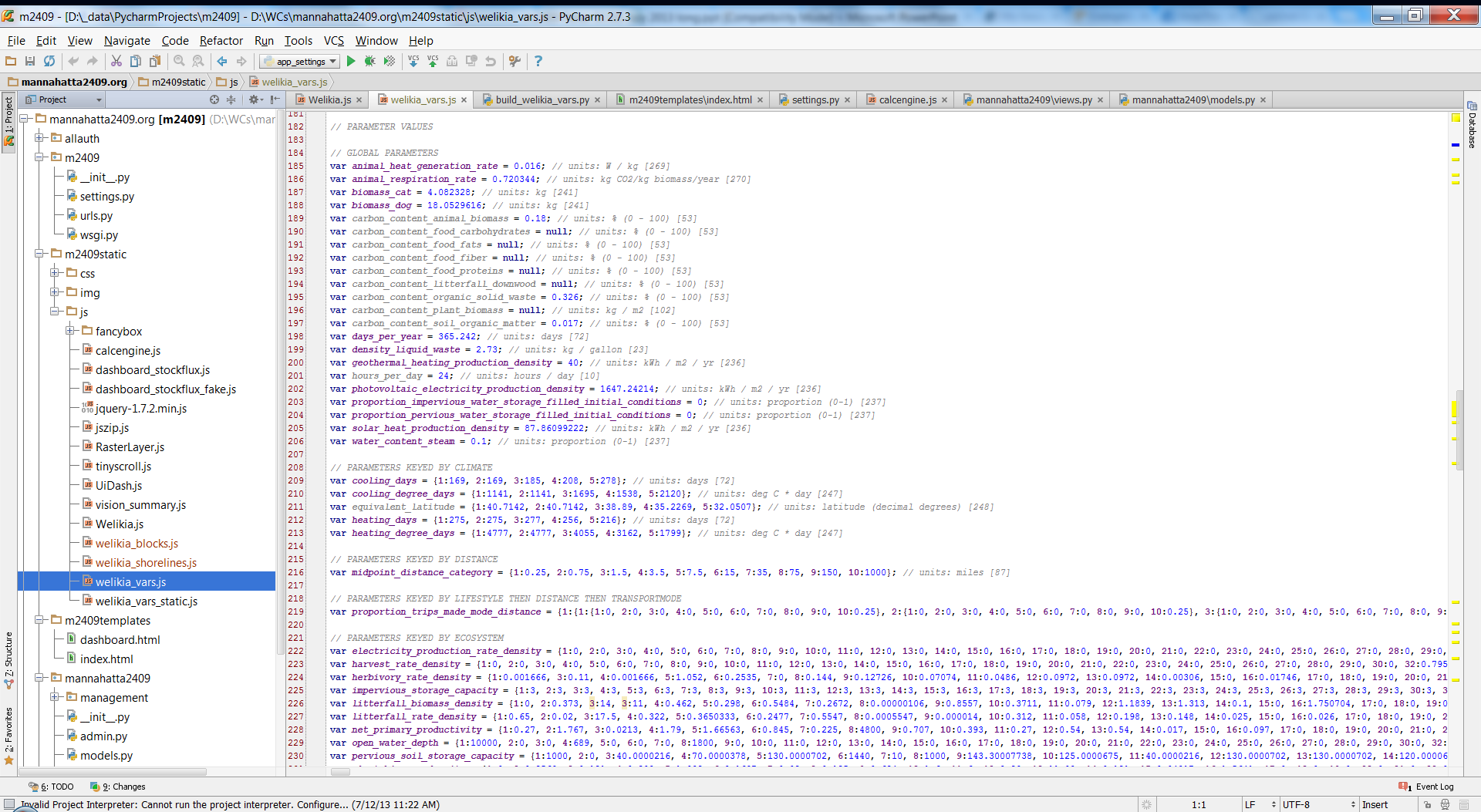
+ Add New	ID	Canonical	Ecosystem	Parameter	Value	Units	Reference	Location	Zotero ID	Last Modified	Delete
Edit	175	☑	Estuary	plant biomass density	0.000000	g / m2	Assumed	New York City: Urban Area ()	TTZFMGZC	2013-02-16 16:38:30.11462-05	Delete
Edit	176	☐	Beach	plant biomass density	93.000000	g / m2	Barbour & Robichaux 1976 Beach Phytomass along the California Coast	"Gldb" California (latitude 41 deg 19 min): Beach (1973-1974)	TNGUFKZP	2012-09-18 12:02:29.23622-04	Delete
Edit	177	☐	Salt marsh	plant biomass density	406.000000	g / m2	Long, Mason 1983 - Saltmarsh Ecology	Massachusetts, U.S.A.: Salt marsh ()	FCWFI4TQ	2012-11-26 11:38:12.736368-05	Delete
Edit	178	☑	Freshwater marsh	plant biomass density	1092.000000	g / m2	Flemer et al. 1978 Standing crops of marsh vegetation of two tributaries of Chesapeake Bay	Patuexent River, Maryland: Freshwater and brackish marshes (1973)	F9U64X3K	2013-01-12 10:01:26.239575-05	Delete
Edit	179	☐	Hardwood swamp	plant biomass density	131195.000000	kg / ha	Ehrenfeld & Gulick 1981 Structure and dynamics of hardwood swamps in the New Jersey Pine Barrens:...	Muskingum Brook at Route 206; Tabernacle Township, NJ: Hardwood swamp (late 1970s)	D5ZW5279	2012-08-21 22:32:14.322129-04	Delete
Edit	180	☑	Pond	plant biomass density	0.125000	kg / m2	Westlake 1963 Comparison of Plant Productivity	Lake Erken, Sweden: Eutrophic lake (1954)	H7CKAWR5	2012-09-18 12:43:36.481342-04	Delete
Edit	181	☑	Disturbed Land	plant biomass density	156.000000	g / 0.25 m2	Carson & Peterson 1990 Role of litter in an old-field...	Hutcheson Memorial Forest, New Brunswick, New Jersey: Solidago-dominated old field (1985-1986)	3KQDWUQ5	2013-01-12 10:00:19.373632-05	Delete
Edit	182	☑	Meadow	plant biomass density	1.600000	kg / m2	Barbour et al. 1987 Terrestrial Plant Ecology	Global: Temperate grassland ()	4SBHTDD8	2012-11-26 12:06:42.263244-05	Delete
Edit	183	☑	Shrub land	plant biomass density	6.000000	kg / m2	Barbour et al. 1987 Terrestrial Plant Ecology	Global: Woodland and shrubland ()	4SBHTDD8	2012-11-26 12:08:30.708387-05	Delete
Edit	184	☑	Hemlock – northern	plant	110.900000	Mg / ha	Smith & Heath 2006 Land use change and forestry annex to US Greenhouse	Northeastern USA: White/Red/Jack Pine Forest ()	PBUNVJ35	2013-01-12	Delete

Parameter values



+ Add New	ID	Canonical	Fuel	Lifestyle	Parameter	Value	Units	Reference	Location	Zotero ID	Last Modified	Delete
Edit	6	☑	Biodiesel	Lenape Person	proportion of heating provided by fuel	0.000000	% proportion (0 - 100)	Assumed	New York City: Mannahatta ()	TTZFMGZC		Delete
Edit	7	☑	Biodiesel	Average New Yorker	proportion of heating provided by fuel	0.000000	% proportion (0 - 100)	NYSERDA 2012 - Patterns and Trends New York State Energy Profiles: 1996-2010	New York City: Buildings (2010)	46E5CT69	2012-10-03 11:57:52.824395-04	Delete
Edit	8	☑	Biodiesel	Average American	proportion of heating provided by fuel	0.000000	% proportion (0 - 100)	U.S. Department of Energy 2012 - 2011 Buildings Energy Data Book	US: Buildings (2010)	6PZ3CSBB	2012-09-13 14:33:43.85648-04	Delete
Edit	9	☑	Biodiesel	No-Impact Man/Woman	proportion of heating provided by fuel	0.000000	% (0 - 100)	Assumed	New York City: Urban Area ()	TTZFMGZC	2012-10-15 15:32:01.348412-04	Delete
Edit	10	☑	Biodiesel	Average Earthling	proportion of heating provided by fuel	2.755240	% proportion (0 - 100)	IEA 2011 - Statistics & Balances	Global: All (2009)	8RRWNW2U	2013-01-14 16:56:37.766316-05	Delete
Edit	11	☑	Coal	Lenape Person	proportion of heating provided by fuel	0.000000	% proportion (0 - 100)	Assumed	New York City: Mannahatta ()	TTZFMGZC		Delete
Edit	12	☑	Coal	Average New Yorker	proportion of heating provided by fuel	0.104739	% proportion (0 - 100)	NYSERDA 2012 - Patterns and Trends New York State Energy Profiles: 1996-2010	New York City: Buildings (2010)	46E5CT69	2013-01-14 16:18:57.837575-05	Delete
Edit	13	☑	Coal	Average American	proportion of heating provided by fuel	0.925900	% proportion (0 - 100)	U.S. Department of Energy 2012 - 2011 Buildings Energy Data Book	US: Buildings (2010)	6PZ3CSBB	2012-09-13 14:06:33.747047-04	Delete
Edit	14	☑	Coal	No-Impact Man/Woman	proportion of heating provided by fuel	0.000000	% (0 - 100)	Assumed	New York City: Urban Area ()	TTZFMGZC	2012-10-15 15:22:34.812103-04	Delete
Edit	15	☑	Coal	Average Earthling	proportion of heating provided by fuel	37.930446	% proportion (0 - 100)	IEA 2011 - Statistics & Balances	Global: All (2009)	8RRWNW2U	2013-01-14 16:58:56.649409-05	Delete
Edit	16	☑	Diesel / light fuel oil	Lenape Person	proportion of heating provided by fuel	0.000000	% proportion (0 - 100)	Assumed	New York City: Mannahatta ()	TTZFMGZC		Delete
Edit	17	☑	Diesel / light fuel oil	Average New Yorker	proportion of heating provided by fuel	0.000000	% proportion (0 - 100)	NYSERDA 2012 - Patterns and Trends New York State Energy Profiles: 1996-2010	New York City: Buildings (2010)	46E5CT69	2012-10-03 11:58:10.402917-04	Delete
Edit	18	☑	Diesel / light fuel oil	Average American	proportion of heating provided by fuel	0.000000	% proportion (0 - 100)	U.S. Department of Energy 2012 - 2011 Buildings Energy Data Book	US: Buildings (2010)	6PZ3CSBB	2012-09-13 14:34:26.582633-04	Delete
Edit	19	☑	Diesel / light fuel oil	No-Impact Man/Woman	proportion of heating provided by fuel	0.000000	% (0 - 100)	Assumed	New York City: Urban Area ()	TTZFMGZC	2012-10-15	

Parameter values



Enter Manhattan Address or Landmark: Get Location 1609 Layer Streets Close Fullscreen

Enter Manhattan Address or Landmark: Get Location 1609 Layer Streets Close Fullscreen

ABOUT THIS BLOCK

61ST ST & 62ND ST BETWEEN PARK AVE & MADISON AVE

Welcome to a wild place: this block in 1609! Through the tabs below, discover the wildlife, Native American use, and landscape factors of this block's original ecology, as reconstructed by the Mannahatta Project. You can also explore the block today and sponsor the Mannahatta Project into the future.

Wildlife | Lenape | Landscape | Modern Day | Support This Block

Find out what plants and animals might have lived in this block in September 1609. Click on the common name to see that species in the center of the Muir web; click on the scientific name to learn more about the ecology of the species.

Mammals | Birds | Reptiles | Amphibians | Fish | Plants

Common Name	Scientific Name	Probability
Meadow Vole	*Microtus pennsylvanicus*	
White-footed Mouse	*Peromyscus leucopus*	
Deer Mouse	*Peromyscus maniculatus*	

Enter Manhattan Ac

Done

Close Fullscreen