

Create your own terrain maps

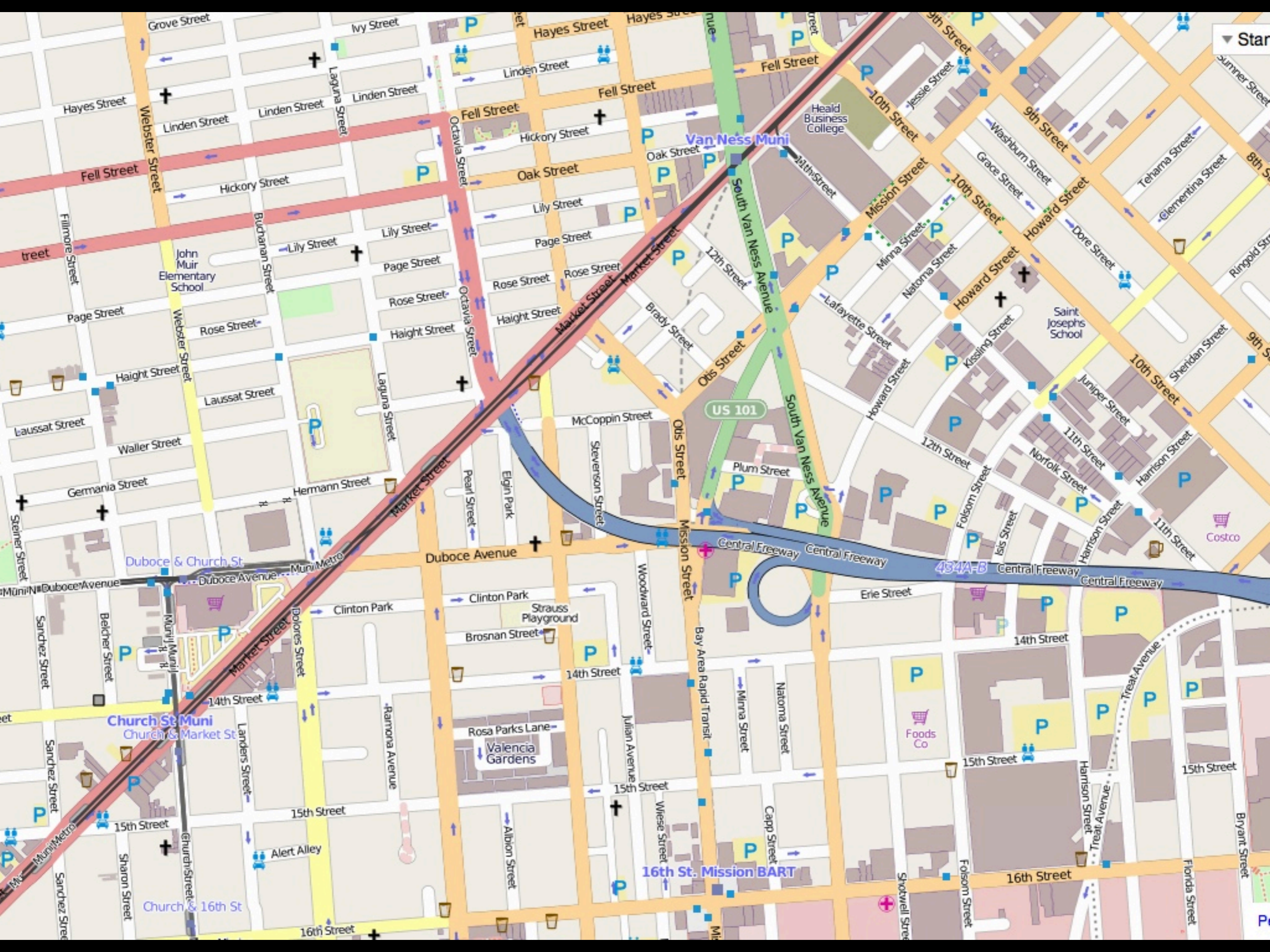
**Nathaniel Vaughn KELSO
& Michal MIGURSKI**

Stamen Design

8th Mountain Cartography Workshop — NZ edition



+ var map =



Van Ness Muni

US 101

16th St. Mission BART

Church St Muni
Church & Market St

Church & 16th St

Heald Business College

Saint Joseph's School

Valencia Gardens

John Muir Elementary School

Costco

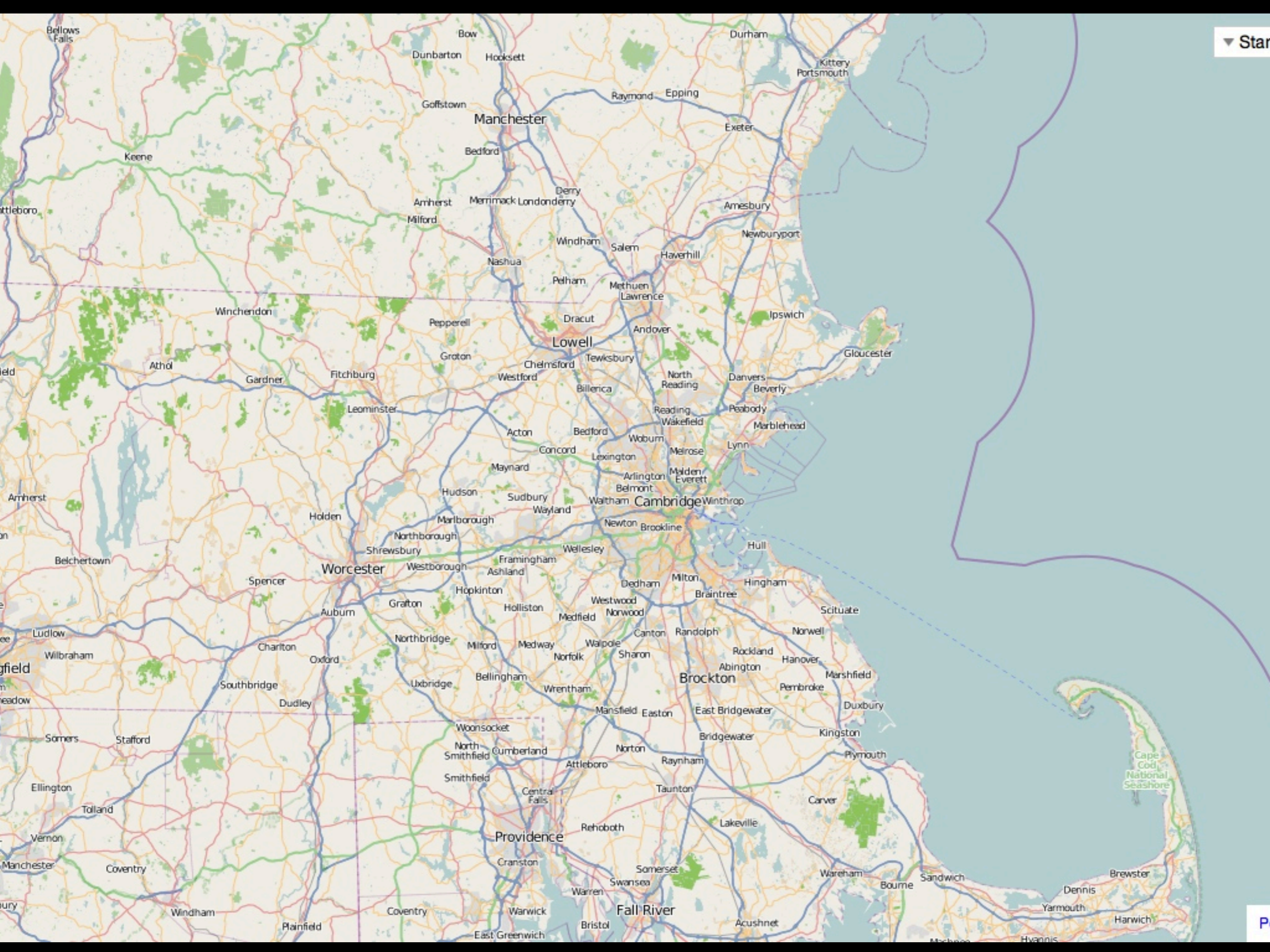
Foods Co

Central Freeway

434A-B

Central Freeway

Star



Type a location

Find



<embed>



Type a location

Find

<embed>

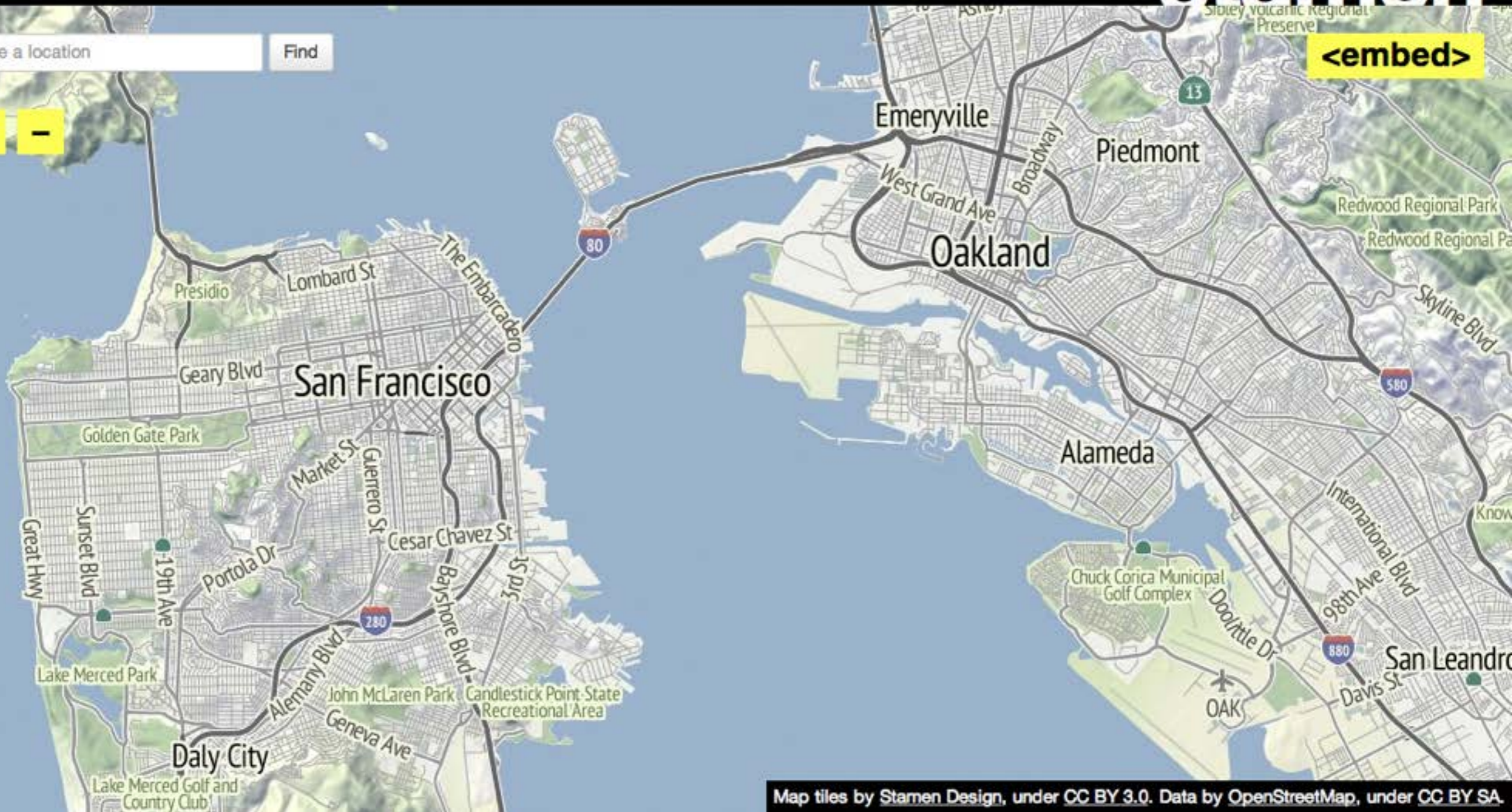


Type a location

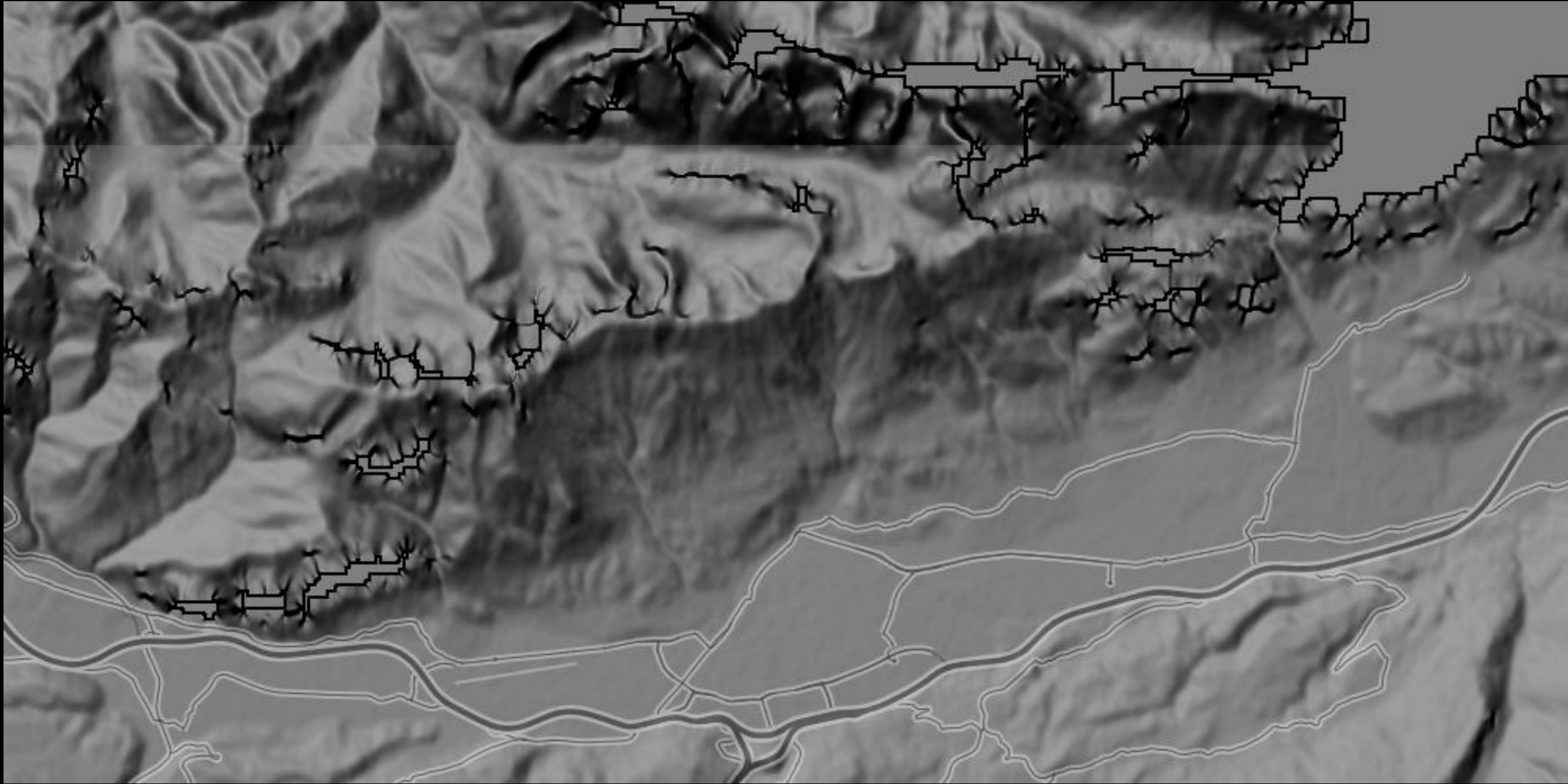
Find



<embed>

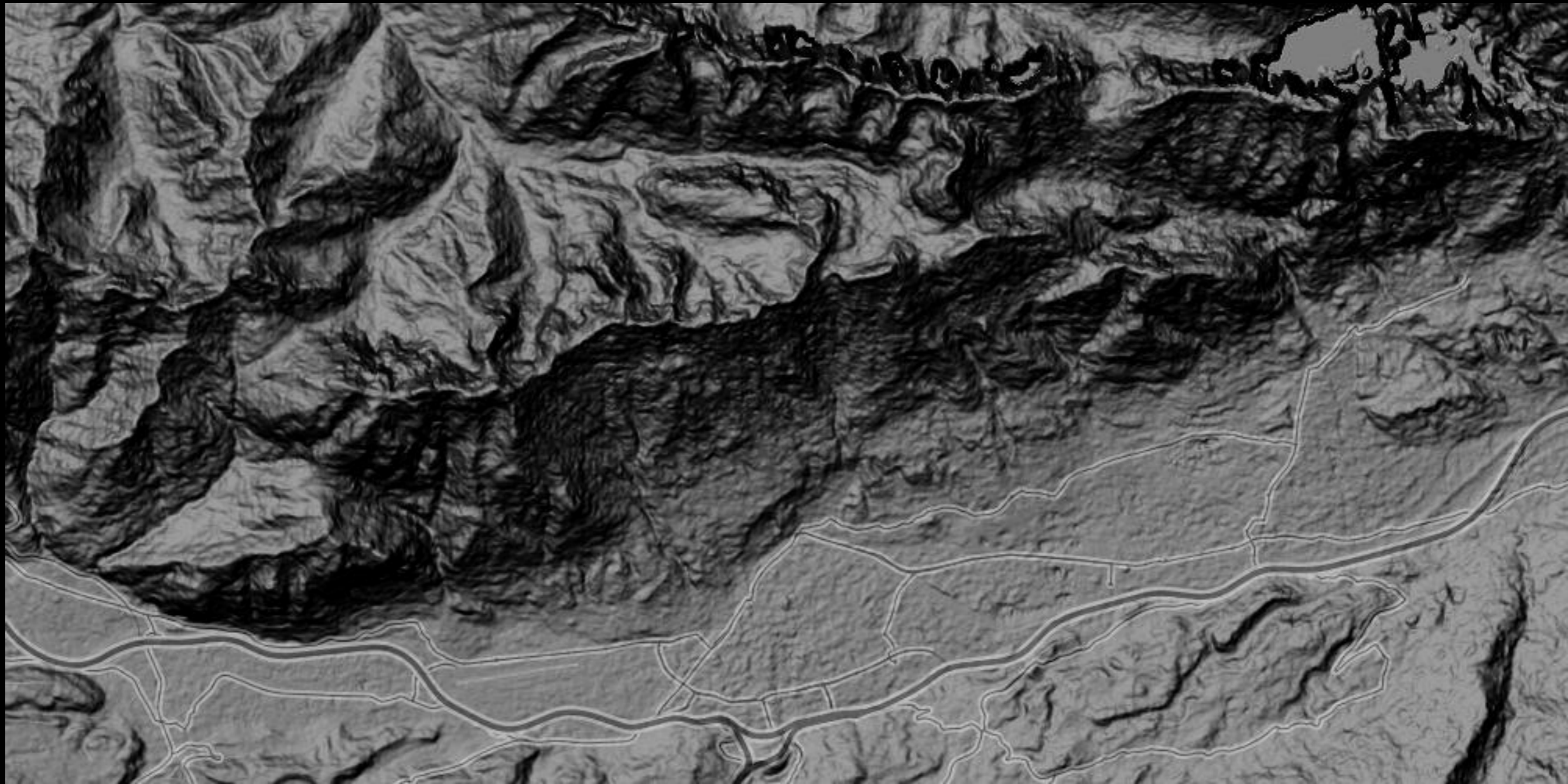


SRTM



(note voids)

ASTER



(quite noisy)

SRTM filled with ASTER



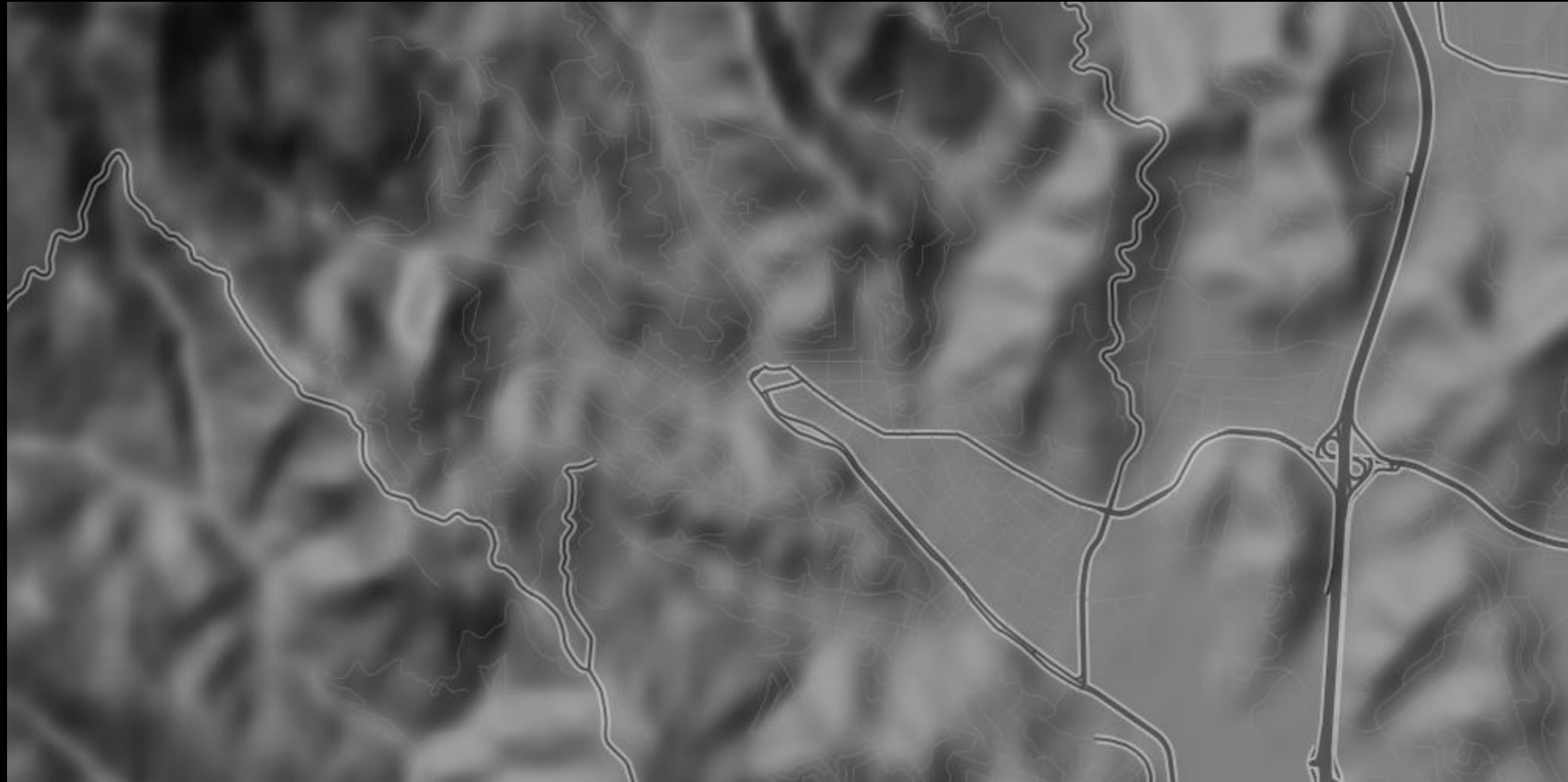
(funky seams)

ViewFinder USSR patches



(meters versus feet?)

Mill Valley, California SRTM



Mill Valley, California
USGS 10m, good for zooms 12+



PUBLIC

migurski / DEM-Tools

Watch

Unstar

23

Fork

6

Code

Network

Pull Requests 1

Issues 2

Wiki

Graphs

Tools For DEMs — [Read more](#)

Clone in Mac

ZIP

HTTP

Git Read-Only

git://github.com/migurski/DEM-Tools.git

Read-Only access

branch: master

Files

Commits

Branches 1

Tags

Downloads

Latest commit to the master branch

Bumped to 0.5.2 with correct file handle closures

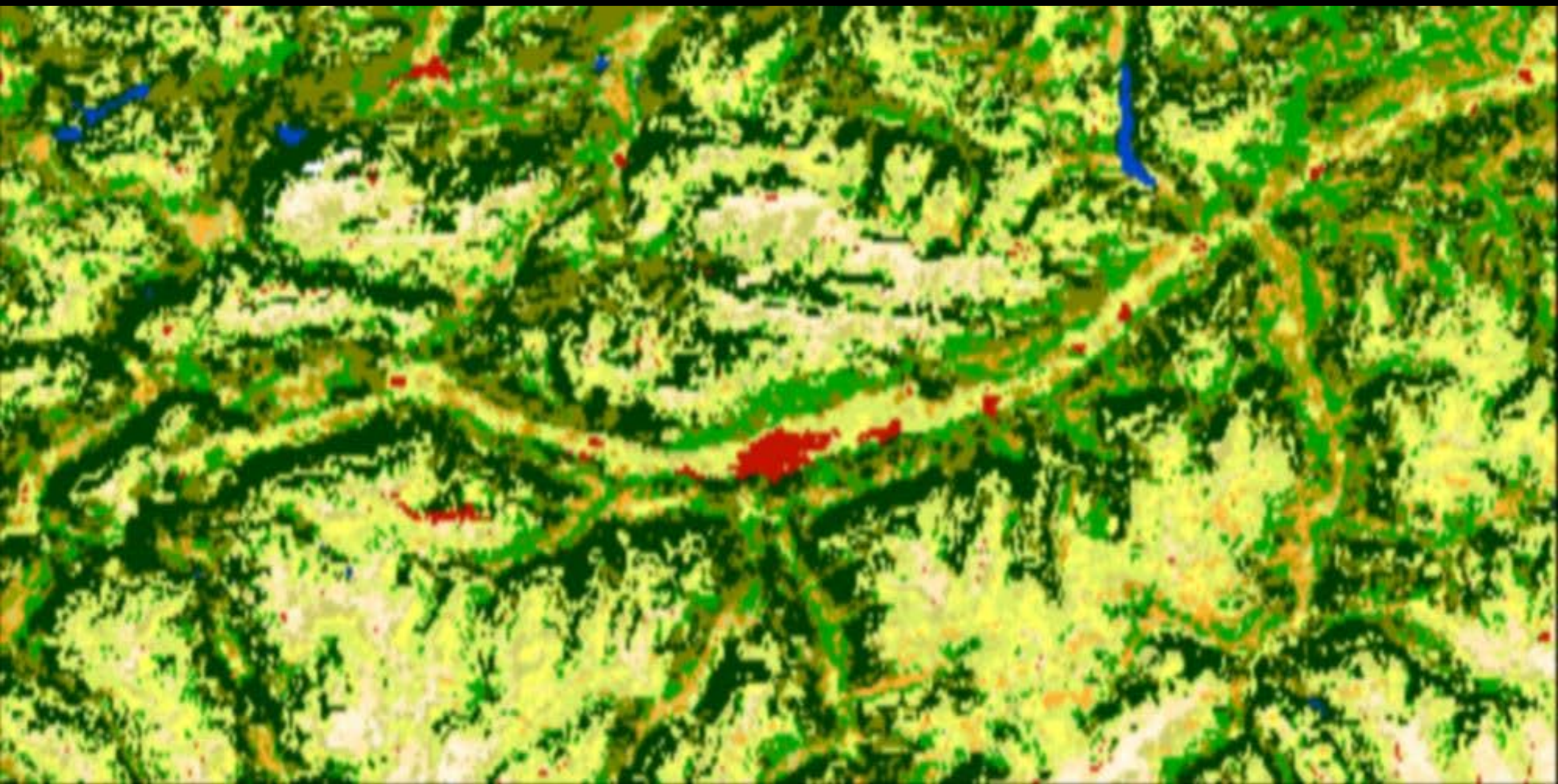
migurski authored 20 days ago

commit 6aac554303

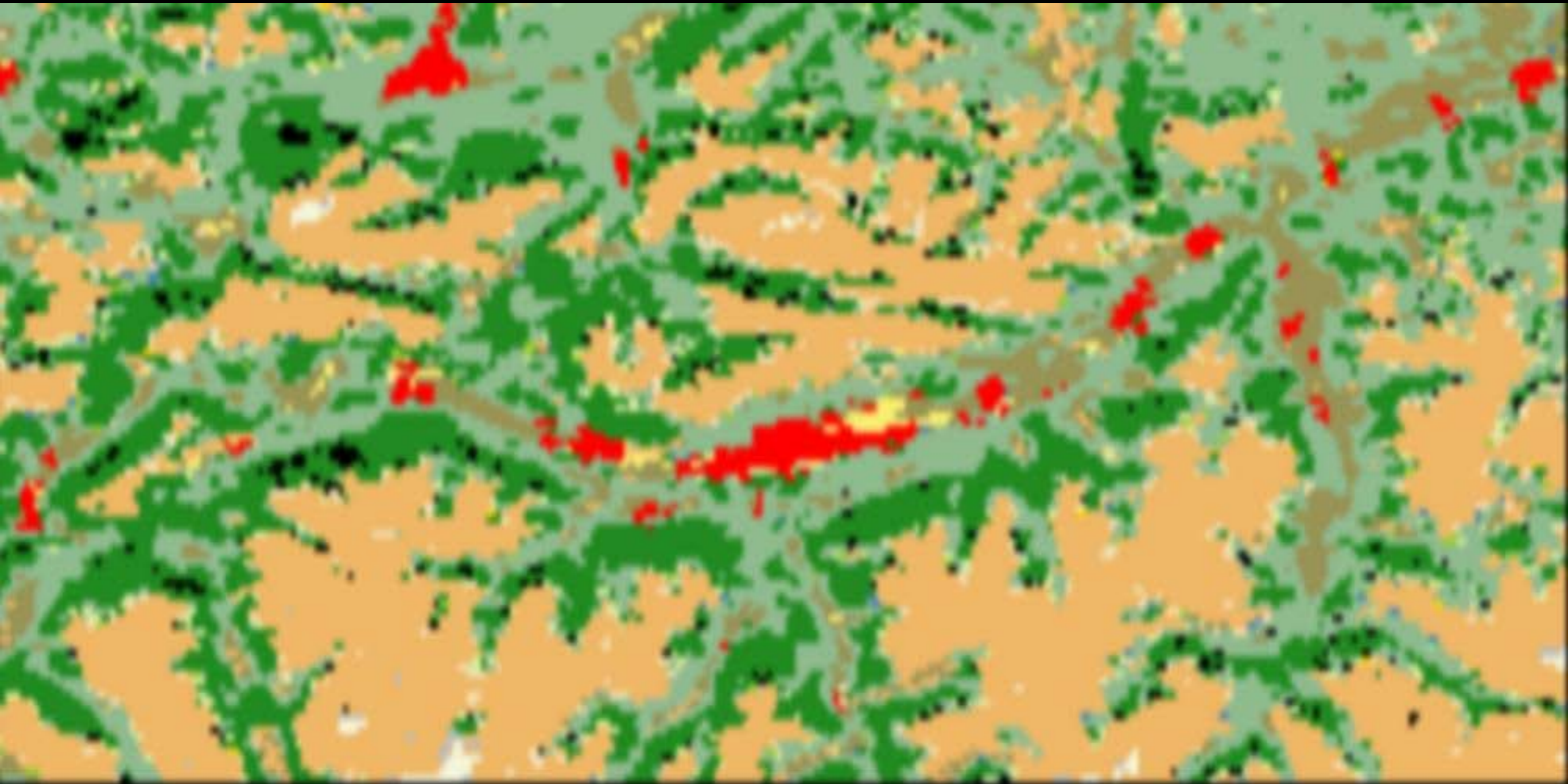
DEM-Tools /

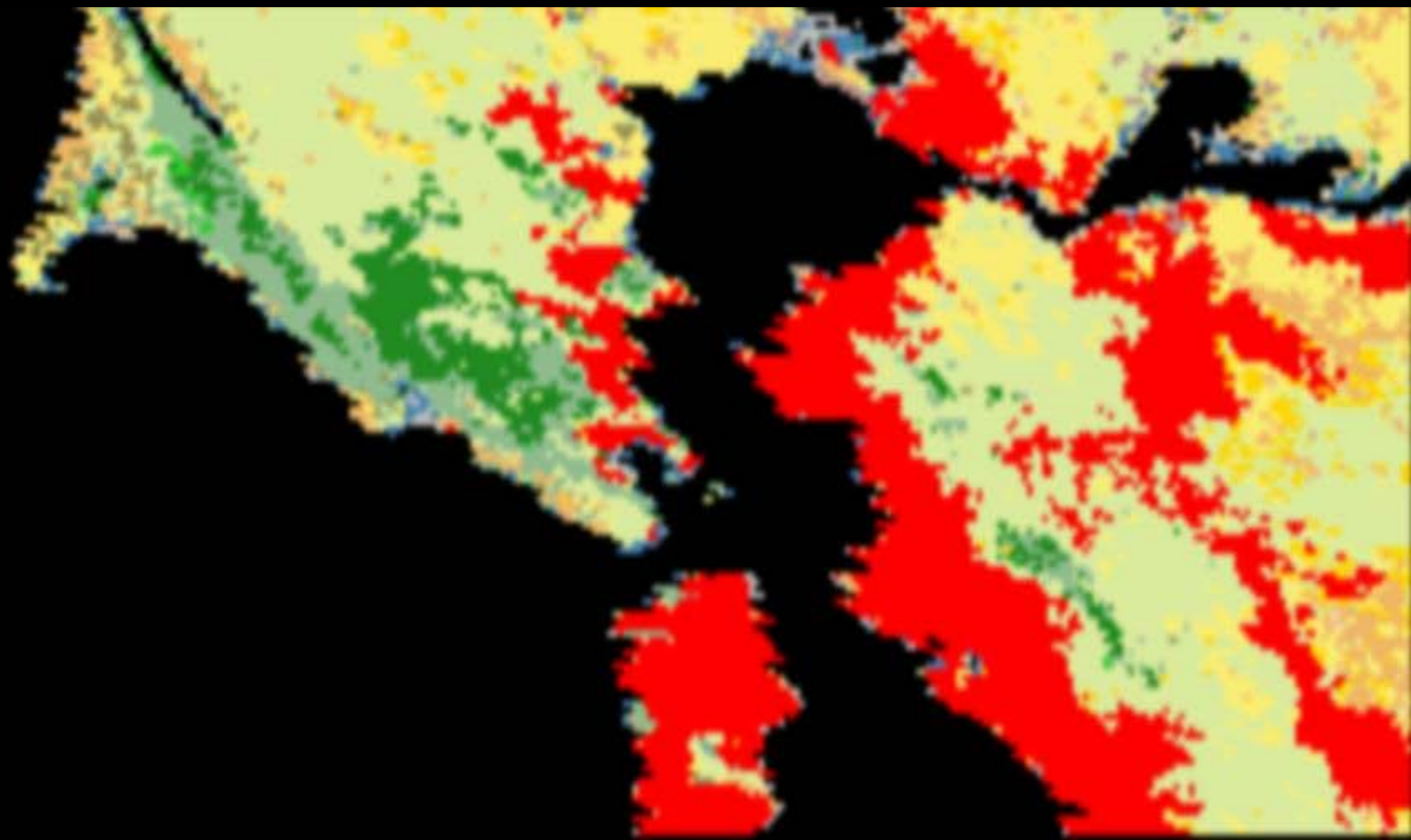
name	age	message	history
📁 Hillup	20 days ago	Bumped to 0.5.2 with correct file handle closures [migurski]	
📁 render	9 months ago	Inverted to black land / white water and added reservoirs [Michal Migurski]	
📄 LICENSE	11 months ago	Updated README, added LICENSE, bumped version to 0.1.0 [Michal Migurski]	
📄 README.md	11 months ago	Tweaked README [Michal Migurski]	
📄 VERSION	20 days ago	Bumped to 0.5.2 with correct file handle closures [migurski]	
📄 hillup-seed.py	21 days ago	Made new Worldwide provider the default [migurski]	
📄 setup.py	11 months ago	Fixed setup.py bug [Michal Migurski]	

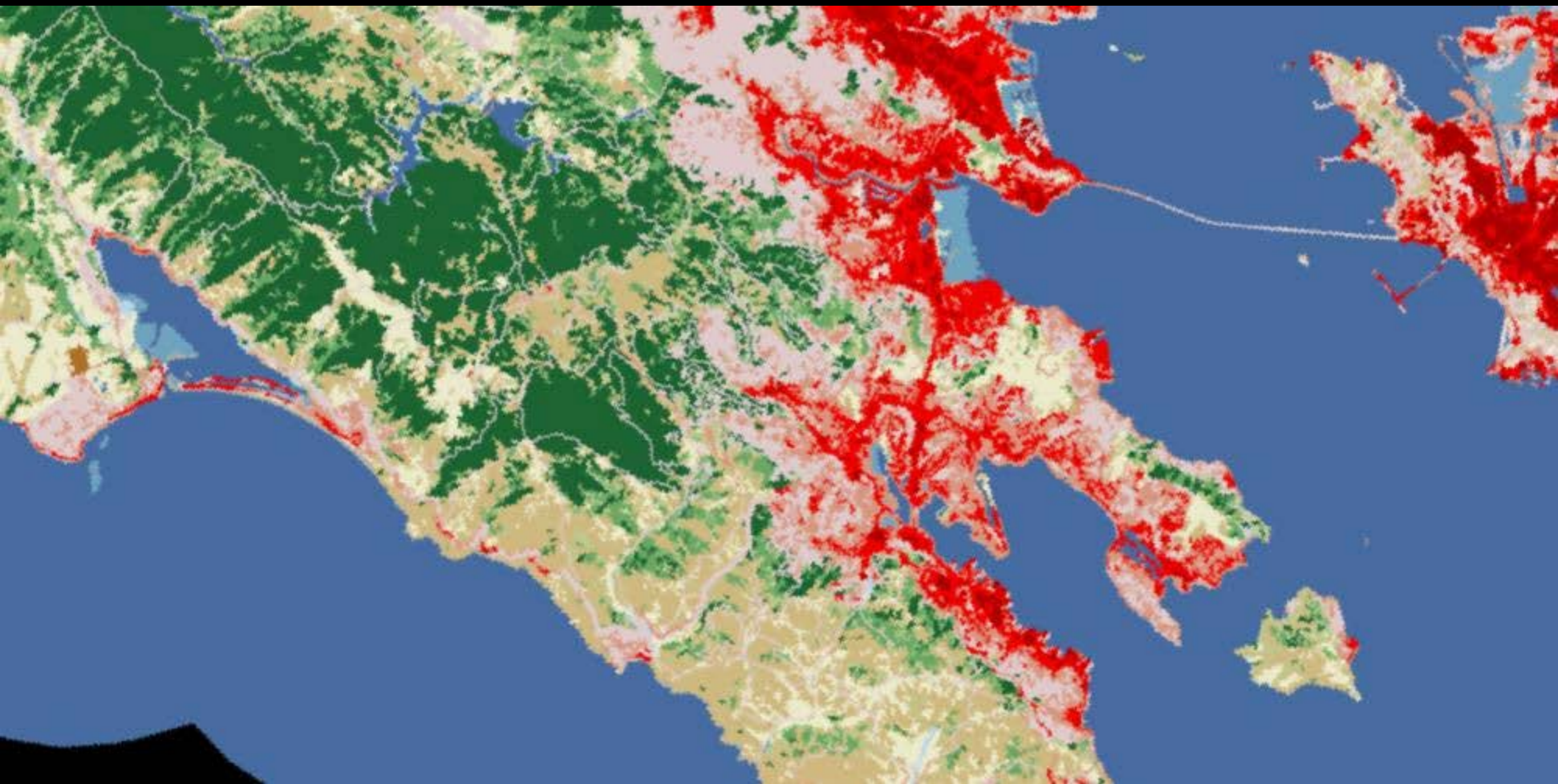
GLOBCOVER, 2009



Boston University's MODIS, 2012







PUBLIC

migurski / TileStache

Watch

Unstar

186

Fork

55

Code

Network

Pull Requests 0

Issues 25

Graphs

A stylish alternative for caching your map tiles. — Read more

http://tilestache.org

Clone in Mac

ZIP

HTTP

Git Read-Only

git://github.com/migurski/TileStache.git

Read-Only access

branch: master

Files

Commits

Branches 22

Tags

Downloads 40

Latest commit to the master branch

Bumped to 1.39.0 with addition of TileStache.Goodies.ExternalConfigSe...

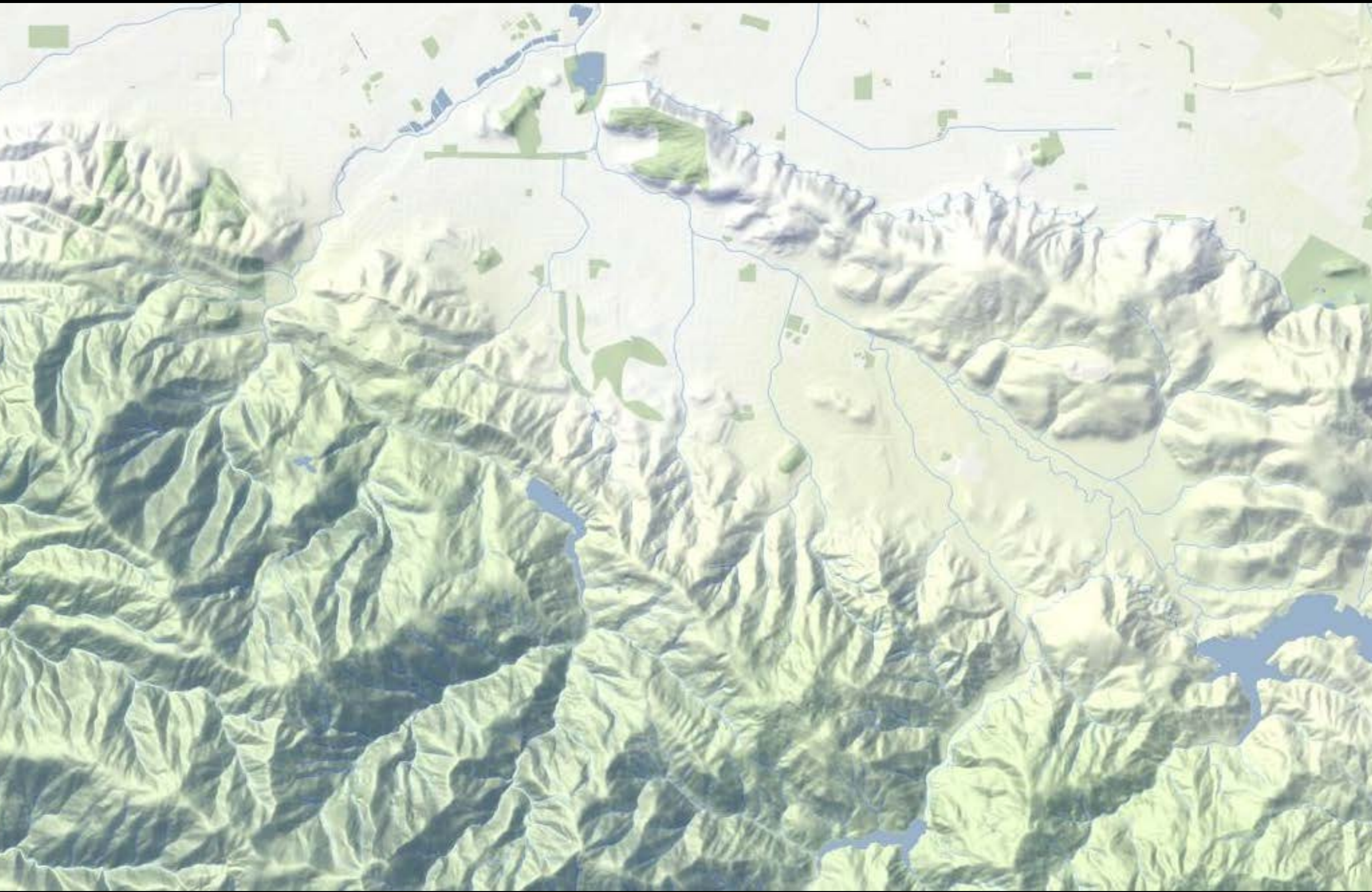
Michal Migurski authored 2 months ago

commit 84b26f5a1d

TileStache /

name	age	message	history
TileStache	2 months ago	Using built-in set instead of deprecated sets.Set [Michal Migurski]	
examples	4 months ago	Correction to example config for Composite provider [cyberttoast]	
man	3 months ago	Added --jsonp-callback option to tilestache-seed.py [Michal Migurski]	
scripts	3 months ago	Added --jsonp-callback option to tilestache-seed.py [Michal Migurski]	
www	2 months ago	Bumped to 1.39.0 with addition of TileStache.Goodies.ExternalConfigSe... [Michal Migurski]	
.gitignore	a year ago	Added a few more ignores [Michal Migurski]	
API.html	2 months ago	Changed Mapnik Grid "layer_id_key" parameter to "layer id key" and up... [Michal Migurski]	





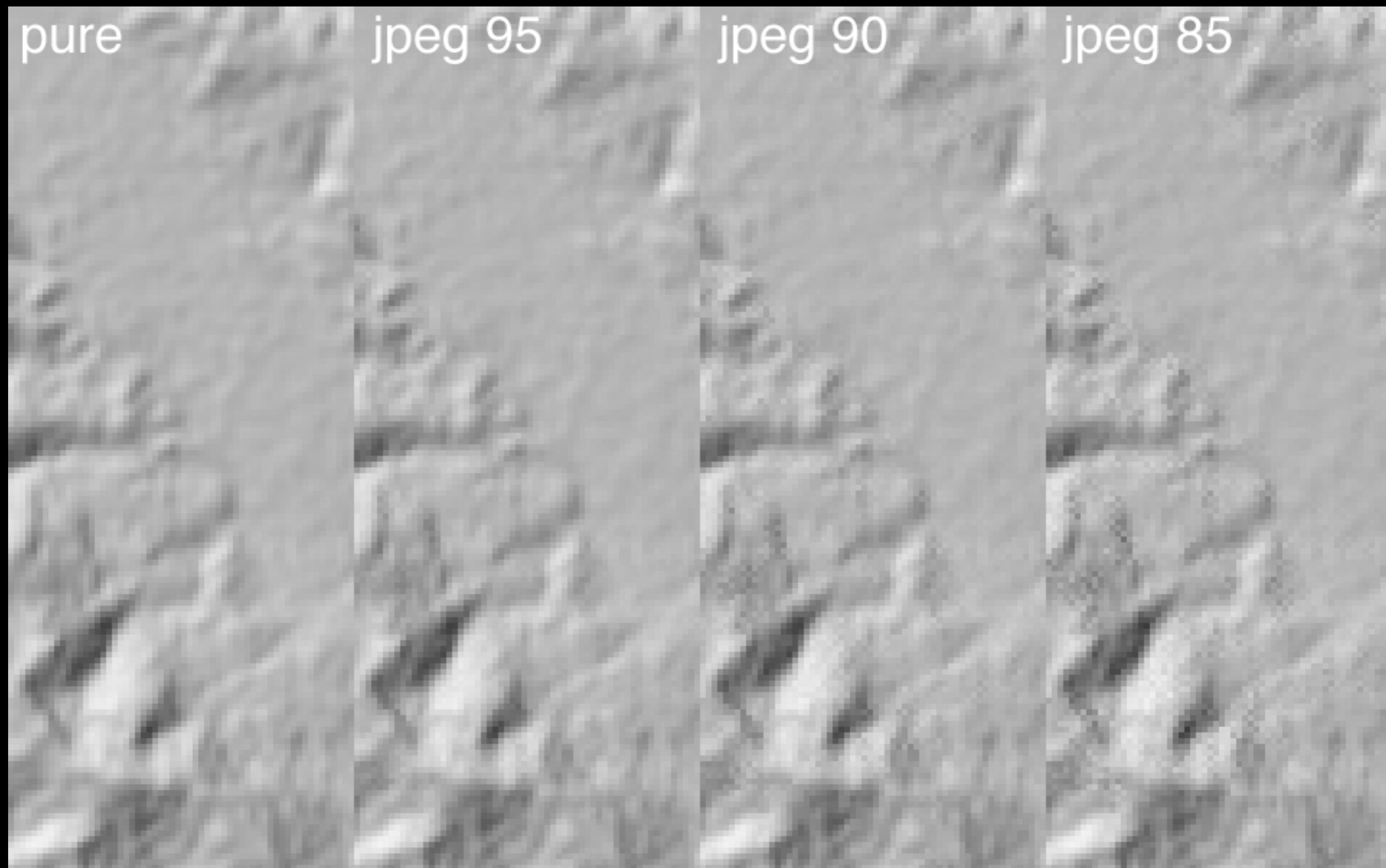


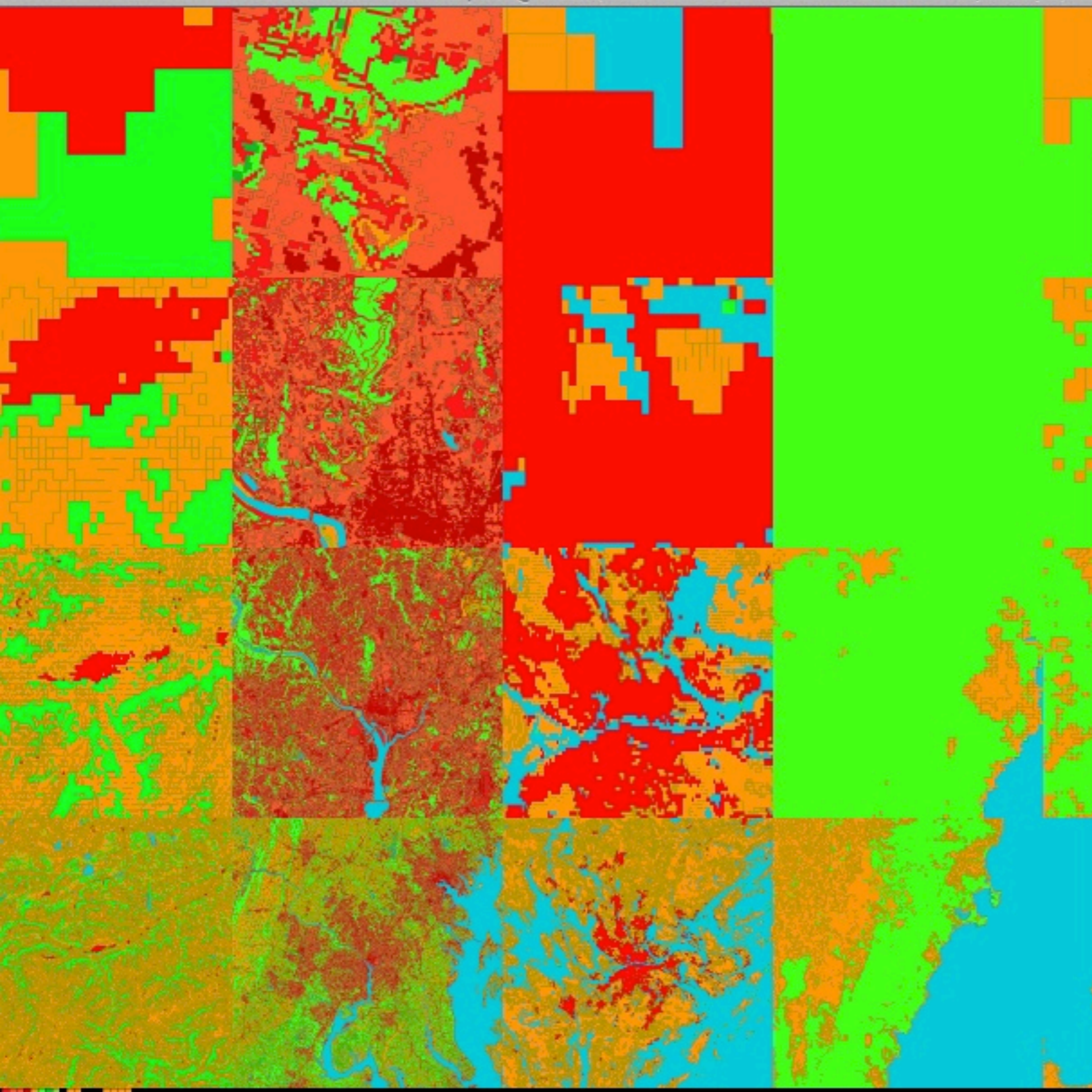
pure

jpeg 95

jpeg 90

jpeg 85





LAYERS CHANNELS PATHS

Linear Dodge (Add) Opacity: 100%

Lock: Fill: 100%

Curves

Elevation

NLCD water fill-in

Landcover (nearest)

- NLCD 2006 95 Emergent Herbaceous Wetlands
- NLCD 2006 90 Woody Wetlands
- NLCD 2006 82 Cultivated crops
- NLCD 2006 81 Pasture or Hay
- NLCD 2006 71 Grassland or Herbaceous
- NLCD 2006 52 Scrub or scrub
- NLCD 2006 43 Mixed Forest
- NLCD 2006 42 Evergreen Forest
- NLCD 2006 41 Deciduous Forest**
- NLCD 2006 31 Barren Land (Rock or Sand or Clay)
- NLCD 2006 24 Developed, High Intensity
- NLCD 2006 23 Developed, Medium Intensity
- NLCD 2006 22 Developed, Low Intensity
- NLCD 2006 21 Developed, Open Space
- NLCD 2006 11 Open
- GLOBCOVER 2009 220 Permanent snow and ice
- GLOBCOVER 2009 210 Water bodies





High Road



PUBLIC

migurski / HighRoad

Watch

Unstar

48

Fork

6

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Network

Pull Requests 1

Issues 6

Wiki

Graphs

The last OpenStreetMap road query you will ever need. — Read more

Clone in Mac

ZIP

HTTP

Git Read-Only

git://github.com/migurski/HighRoad.git

Read-Only access

branch: master

Files

Commits

Branches 2

Tags 2

Downloads

Latest commit to the master branch

...missed one.

migurski authored 2 months ago

commit d681ece1b7

HighRoad /

name	age	message	history
renders	a year ago	Removed giant, made renders from Git [Michal Migurski]	
.gitignore	a year ago	Removed made style.xml from Git [Michal Migurski]	
Makefile	a year ago	Moved HTML preview file [Michal Migurski]	
README.md	2 months ago	...missed one. [migurski]	
high_road_views-remove.pgsq	2 months ago	formatting [nvkelso]	
high_road_views-setup.pgsq	2 months ago	added remove, upgrade section to readme in pgsq script [nvkelso]	
index.html	a year ago	Moved HTML preview file [Michal Migurski]	
	a year ago	First commit, copied from r110 [Michal Migurski]	

Dymo *demo*

<http://vimeo.com/29227985>



Hudson Bay

Labrador Sea

BC

AB

SK

MB

Canada

QC

NL

Vancouver

Seattle
WA

MT

ND

MN

ON

James Bay

Montréal

NB

PE

NS

OR

ID

WY

SD

IA

WI

MI

Toronto

NH

Boston

NE

IL

IN

Chicago

OH

PA

New York

Philadelphia

San Francisco

CA

NV

UT

Denver

CO

KS

MO

KY

VA

Washington

Los Angeles

AZ

NM

OK

AR

TN

NC

Dallas

TX

Houston

LA

MS

AL

Atlanta

GA

SC

FL

Miami

Golfo de California

Mexico

Gulf of Mexico

Guadalajara

Mexico City

Bahía de Campeche

Cuba

Haiti

Dom. Rep.

P.R.

Guat.

Belize

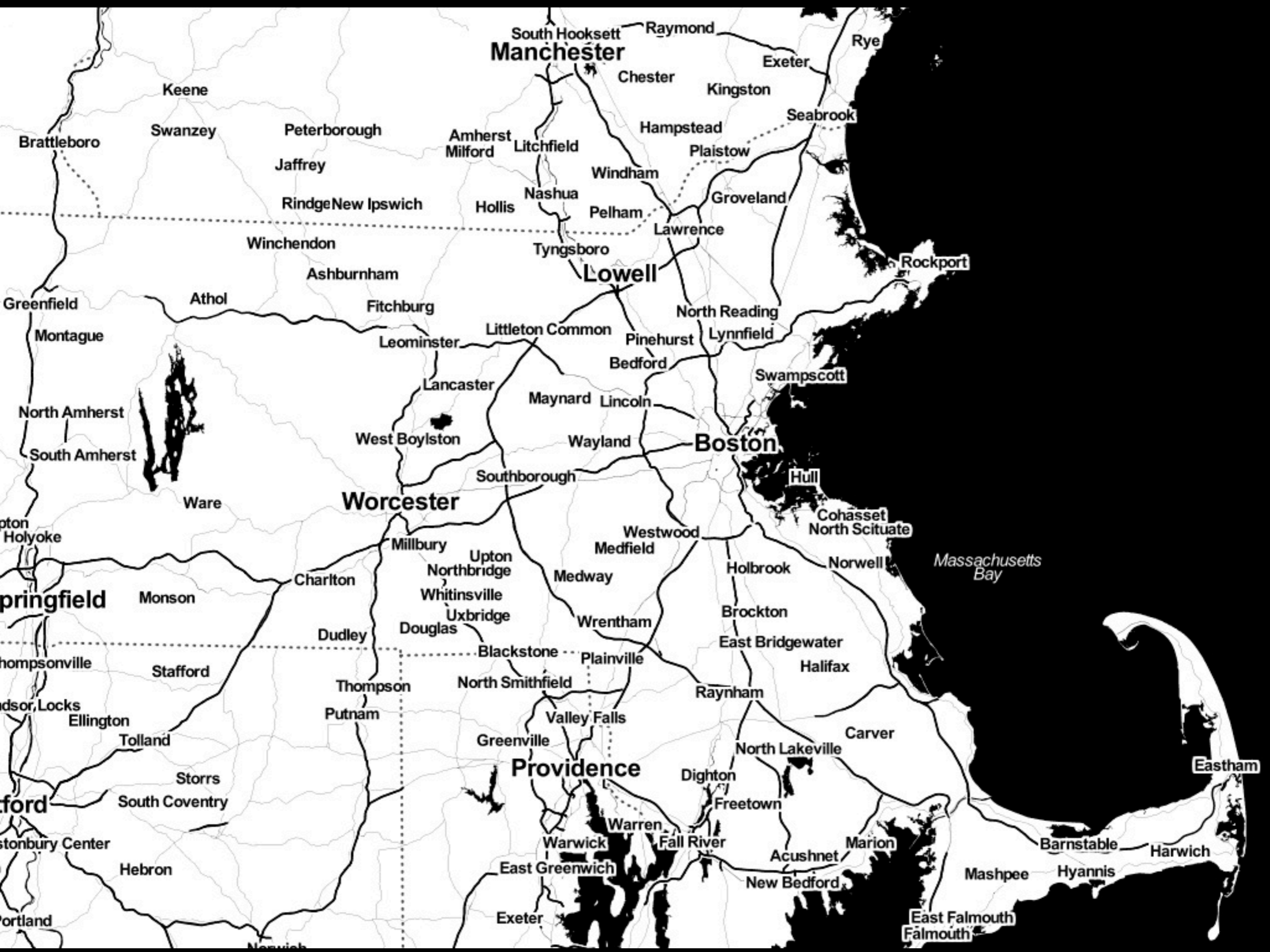
Hond.

Jam.

Caribbean Sea

El. Sal.

Nic.



Manchester

Lowell

Worcester

Boston

Springfield

Providence

Northampton

Northampton

Keene

Swansey

Peterborough

Jaffrey

Rindge New Ipswich

Winchendon

Ashburnham

Athol

Montague

North Amherst

South Amherst

Ware

Northampton

Springfield

Monson

Northampton

Stafford

Northampton

Ellington

Tolland

Storrs

South Coventry

Northampton

Hebron

Northampton

Manchester

Raymond

Chester

Kingston

Rye

Exeter

Seabrook

Hampstead

Plaistow

Litchfield

Windham

Nashua

Pelham

Groveland

Hollis

Lawrence

Tyngsboro

Lowell

North Reading

Lynnfield

Fitchburg

Littleton Common

Bedford

Swampscott

Lancaster

Maynard

Lincoln

West Boylston

Wayland

Boston

Hull

Southborough

Cohasset

North Scituate

Massachusetts Bay

Westwood

Medfield

Norwell

Medway

Holbrook

Springfield

Charlton

Wrentham

Brockton

East Bridgewater

Halifax

Dudley

Douglas

Blackstone

Plainville

Raynham

Northampton

Stafford

Thompson

North Smithfield

Valley Falls

North Lakeville

Carver

Northampton

Ellington

Tolland

Storrs

South Coventry

Northampton

Hebron

Northampton

Greenville

Providence

Dighton

Freetown

Marion

Eastham

Warren

Warwick

Fall River

Acushnet

Barnstable

Harwich

East Greenwich

Mashpee

Hyannis

Exeter

New Bedford

East Falmouth
Falmouth





San Francisco

Oakland

Hayward

San Jose

OAK

SFO

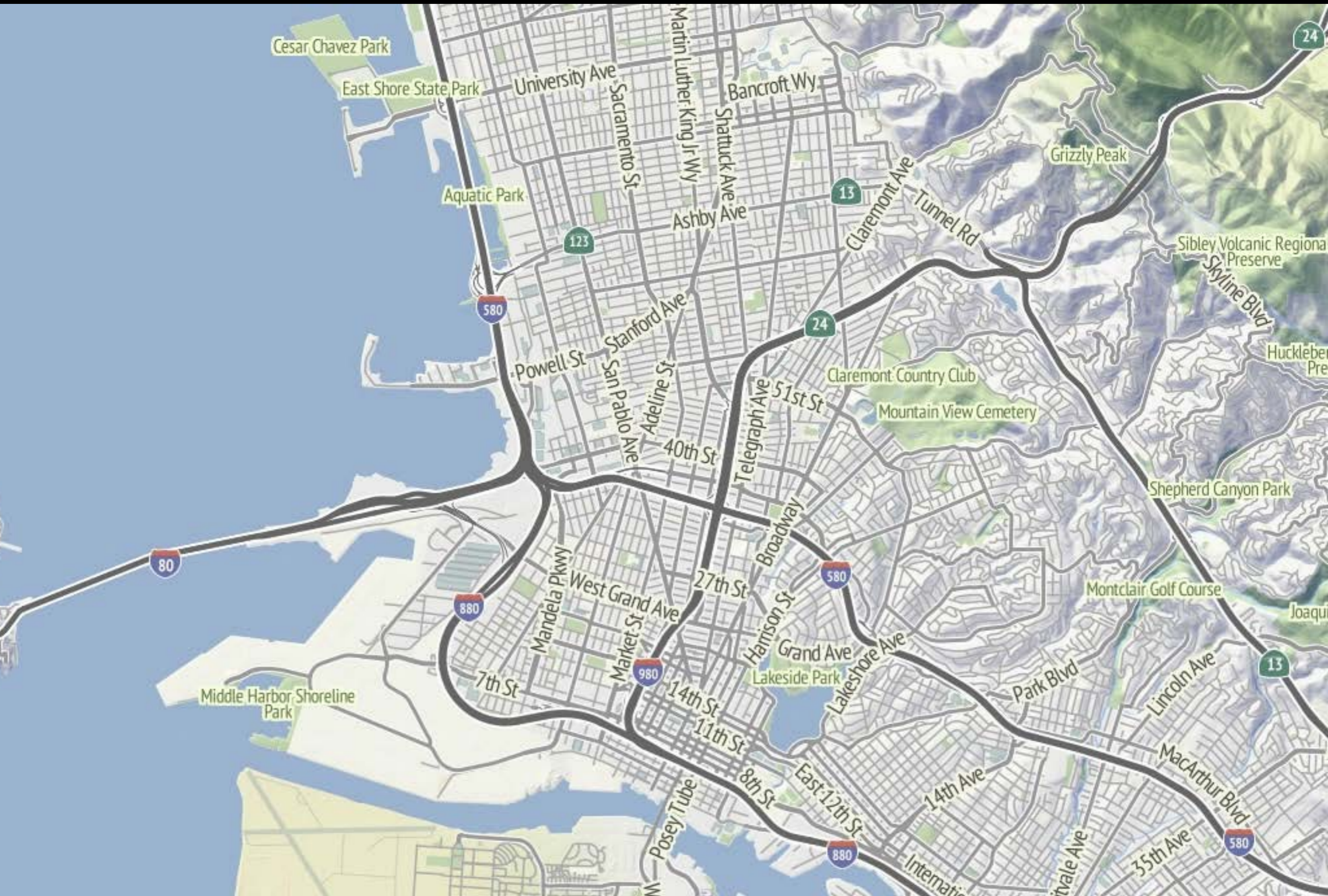
Point Reyes National Seashore

Samuel P. Taylor State Park

John Marsh Home State Historic Park
Round Valley Regional Preserve

Lake Del Valle State Recreational Area

Monte Bello Open Space Preserve



Cesar Chavez Park

East Shore State Park

Aquatic Park

University Ave

Sacramento St

Martin Luther King Jr Wy

Shattuck Ave

Ashby Ave

Bancroft Wy

123

Claremont Ave

Tunnel Rd

Grizzly Peak

Sibley Volcanic Regional Preserve

Skyline Blvd

Huckleberry Preserve

Powell St

Stanford Ave

San Pablo Ave

Adeline St

40th St

Telegraph Ave

51st St

24

Claremont Country Club

Mountain View Cemetery

Shepherd Canyon Park

80

880

980

580

13

Middle Harbor Shoreline Park

7th St

Mandela Pkwy

West Grand Ave

27th St

Broadway

Harrison St

Grand Ave

Lakeside Park

Lakeshore Ave

Montclair Golf Course

Joaquin

Park Blvd

Lincoln Ave

MacArthur Blvd

580

W Posey Tube

14th St

11th St

8th St

East 12th St

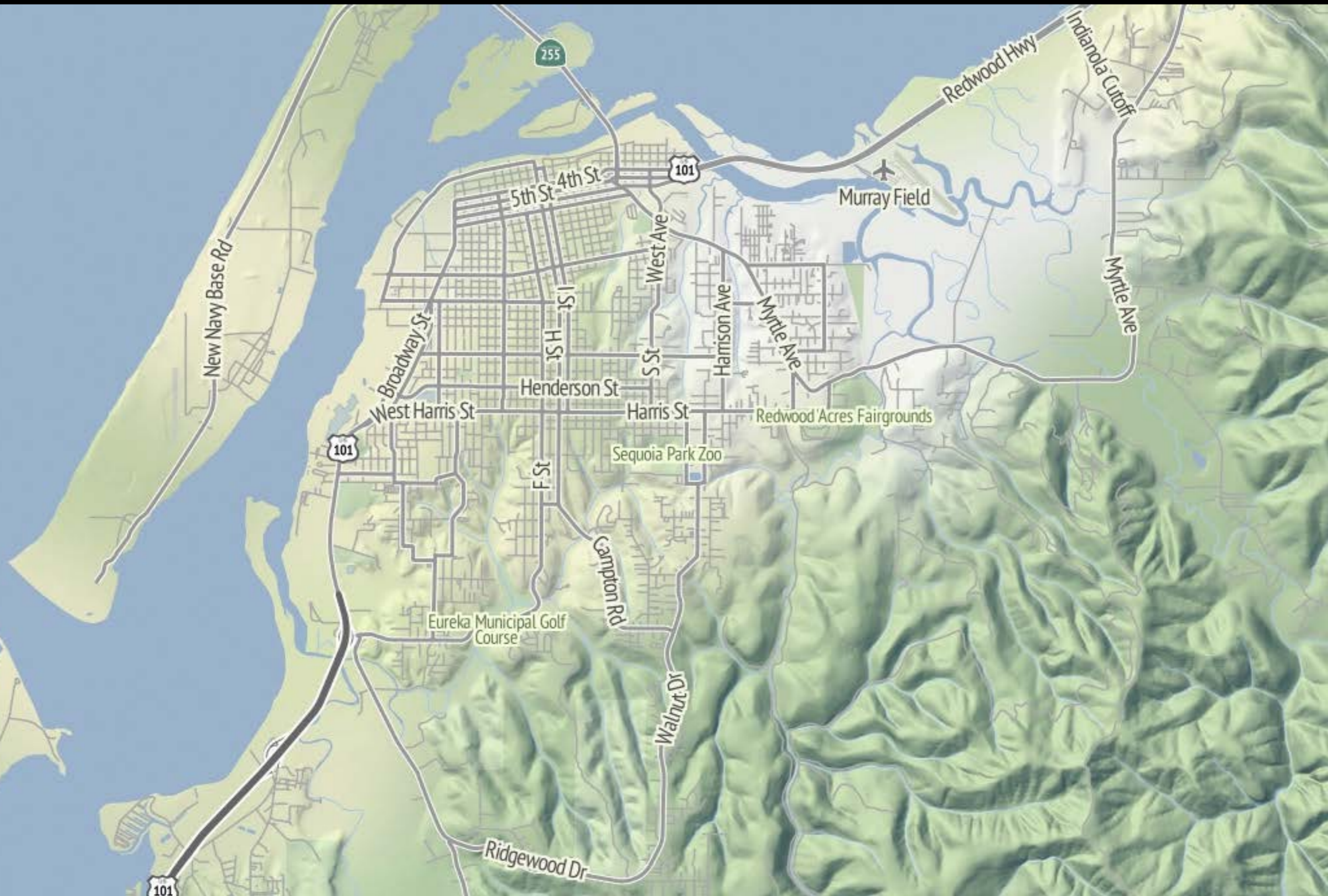
14th Ave

880

Intermatic

Wvale Ave

35th Ave



New Navy Base Rd

255

Redwood Hwy

Indianola Cutoff

101

Murray Field

5th St
4th St

West Ave

Broadway St

I St
H St

Harrison Ave

Myrtle Ave

Myrtle Ave

Henderson St

S St

West Harris St

Harris St

Redwood Acres Fairgrounds

101

Sequoia Park Zoo

F St

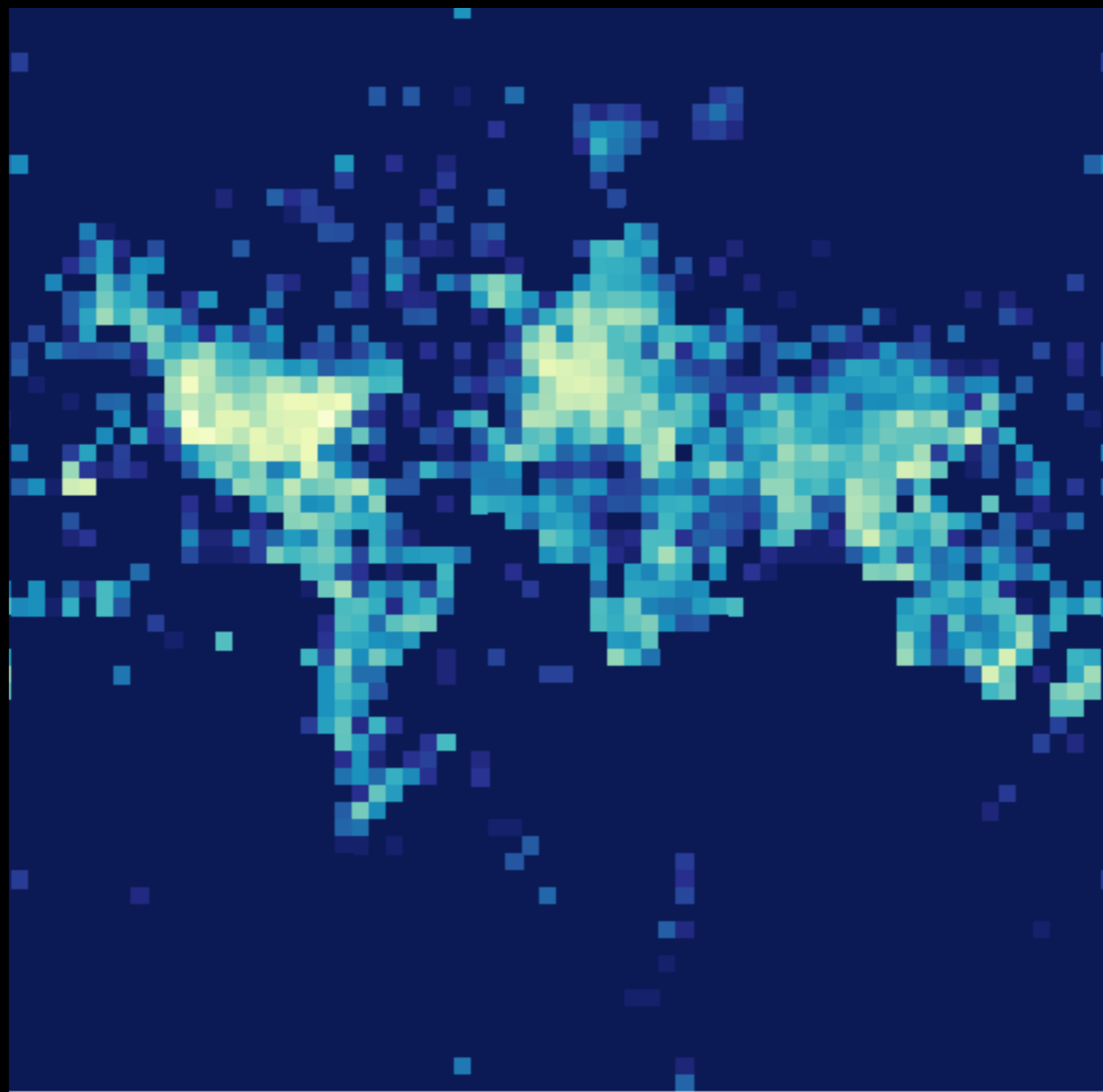
Campton Rd

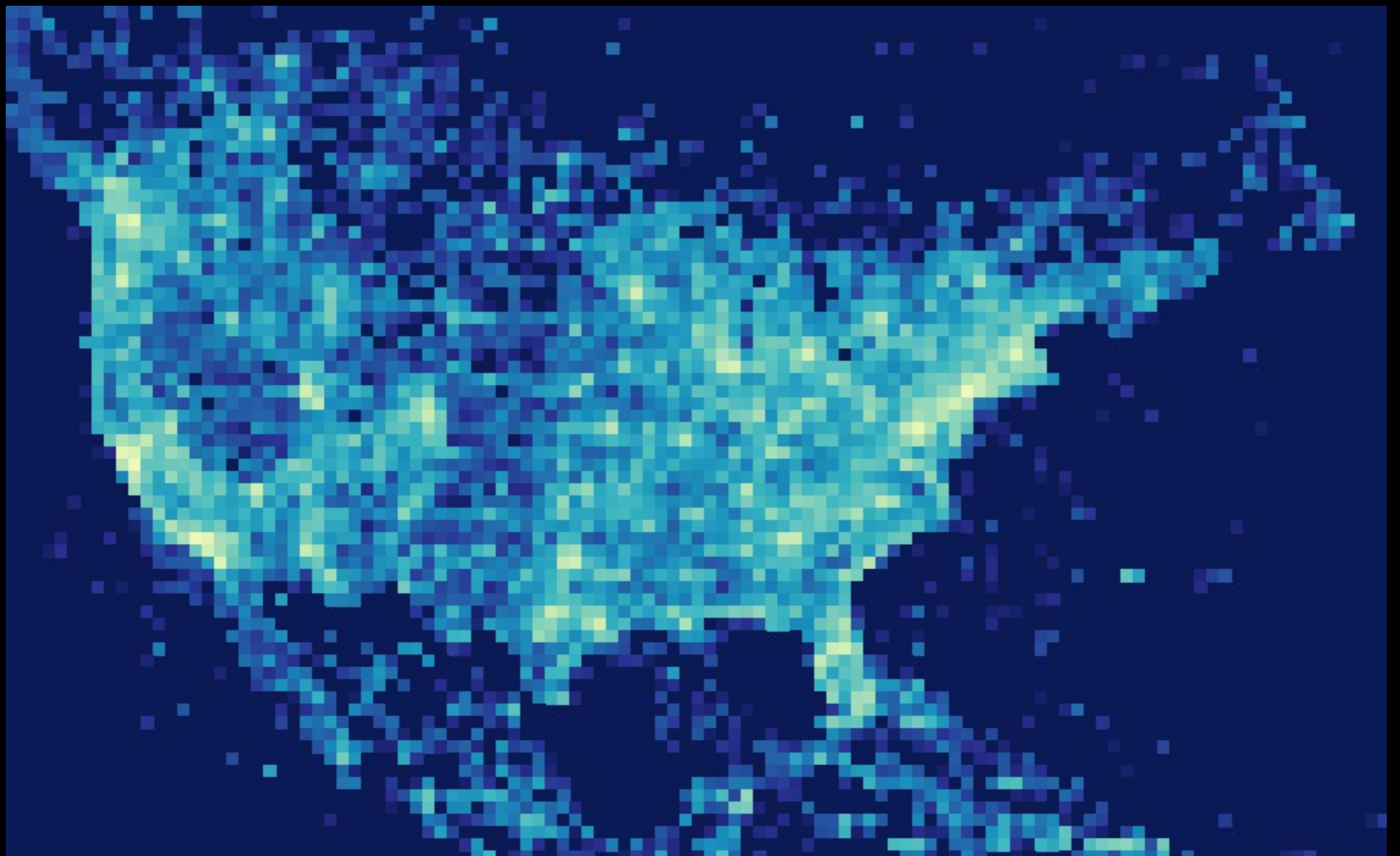
Eureka Municipal Golf Course

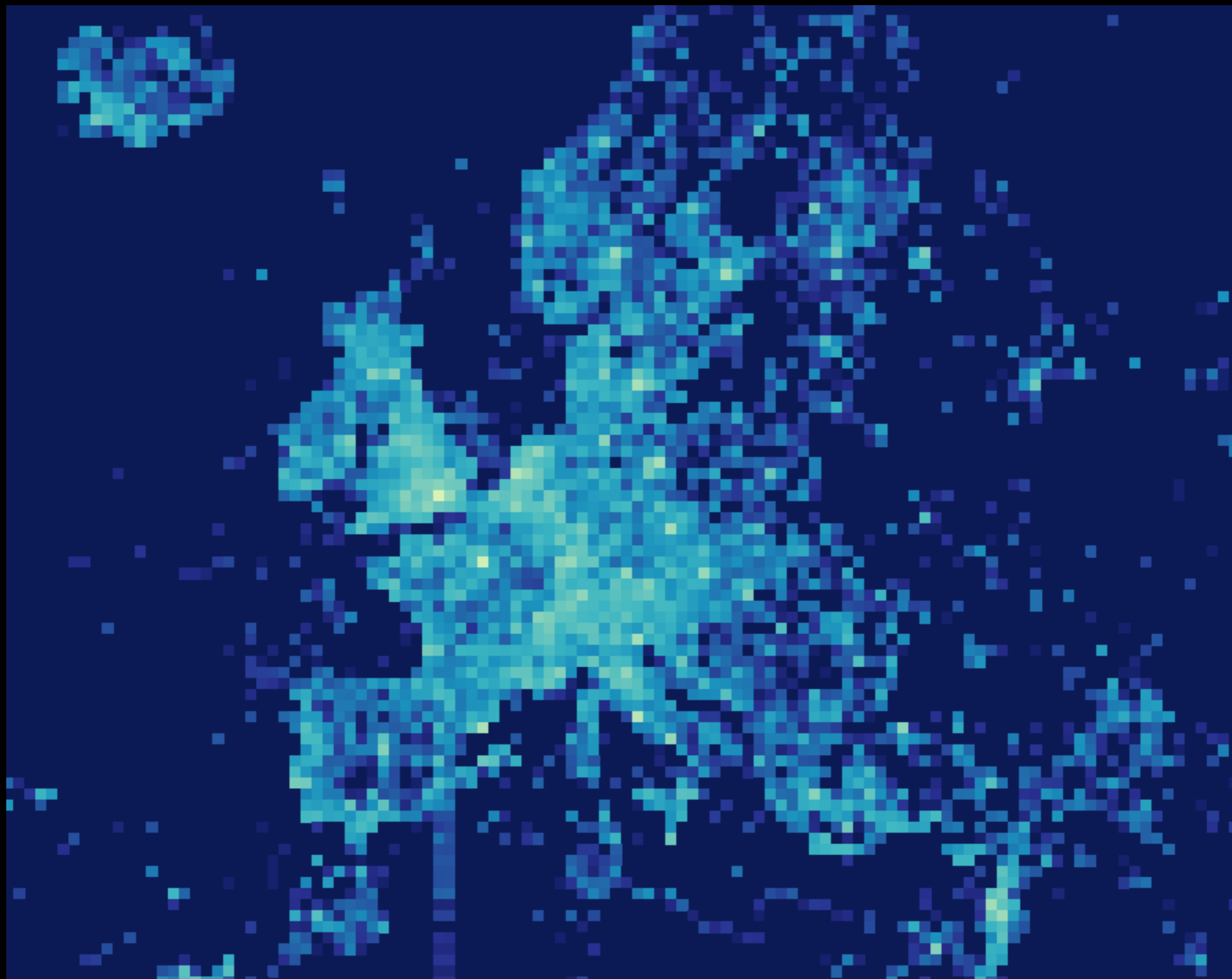
Walnut Dr

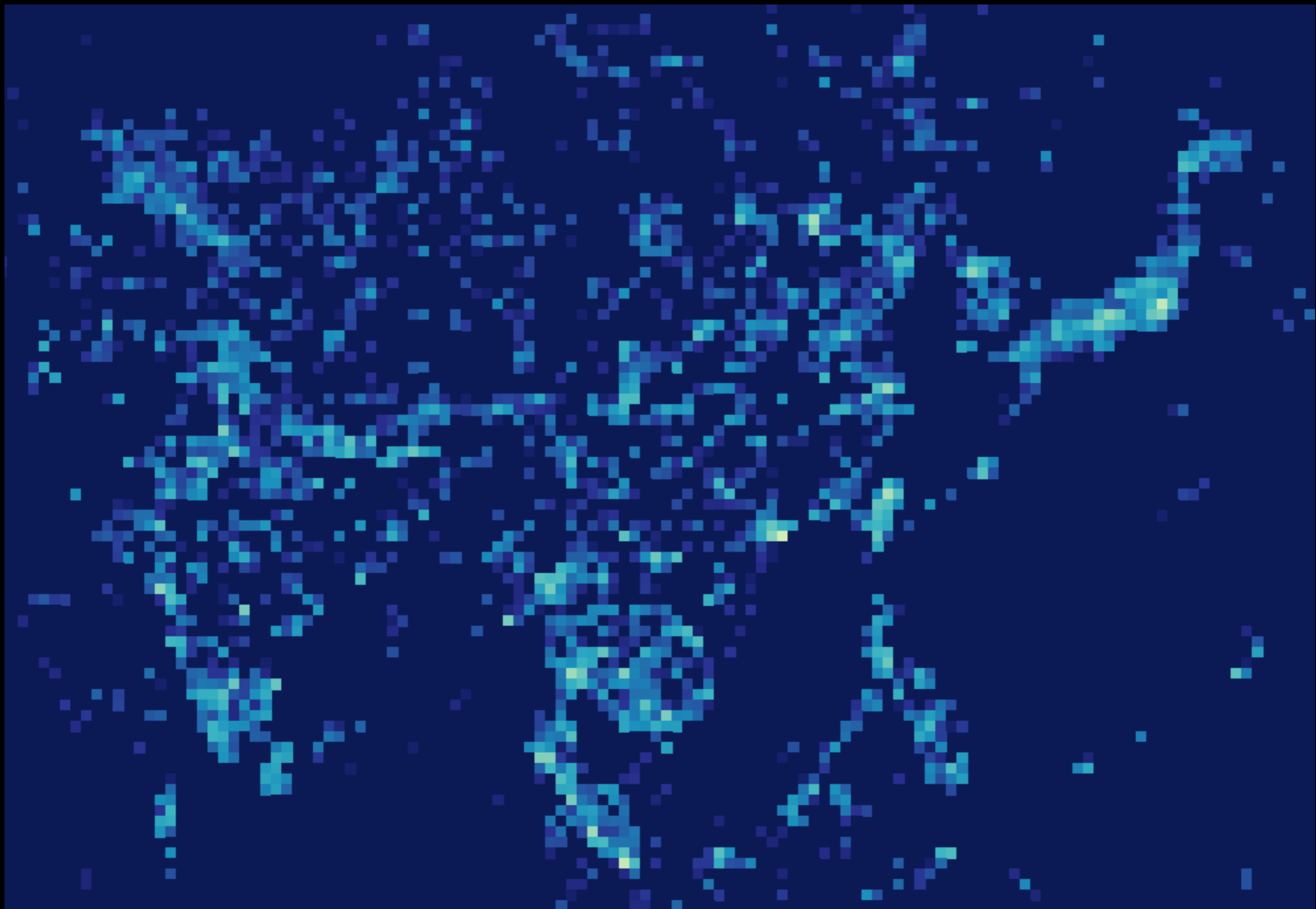
Ridgewood Dr

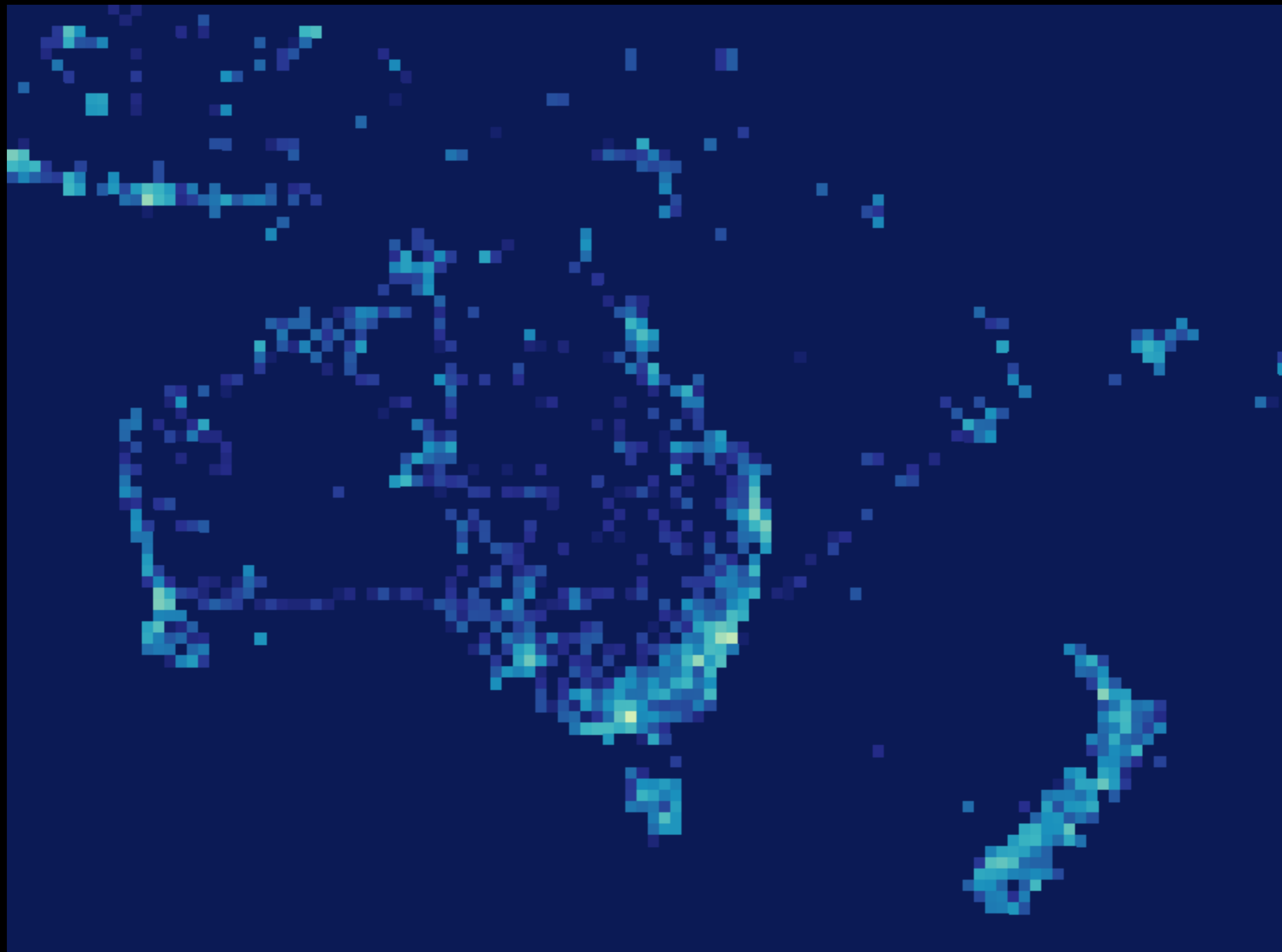
101

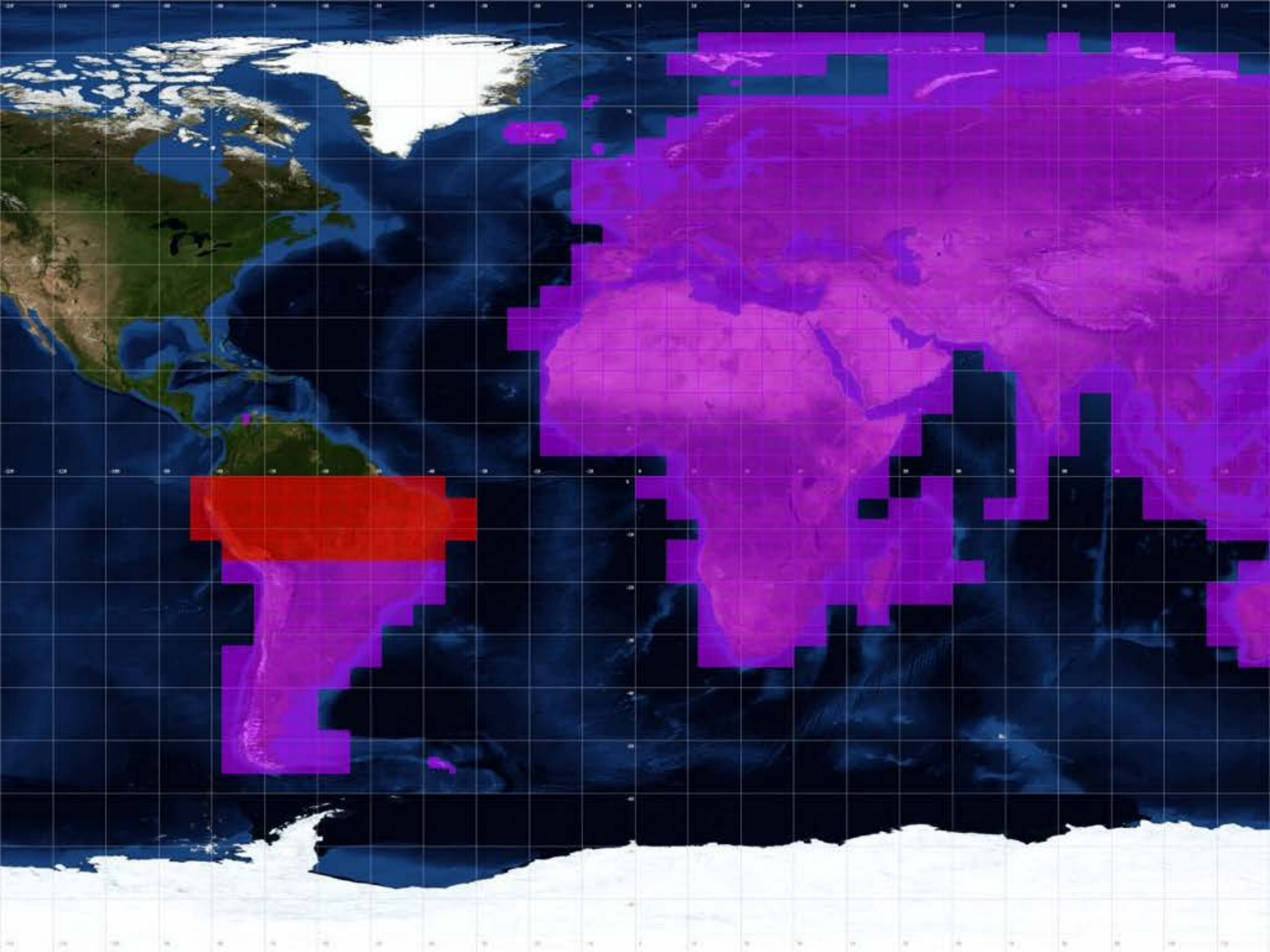




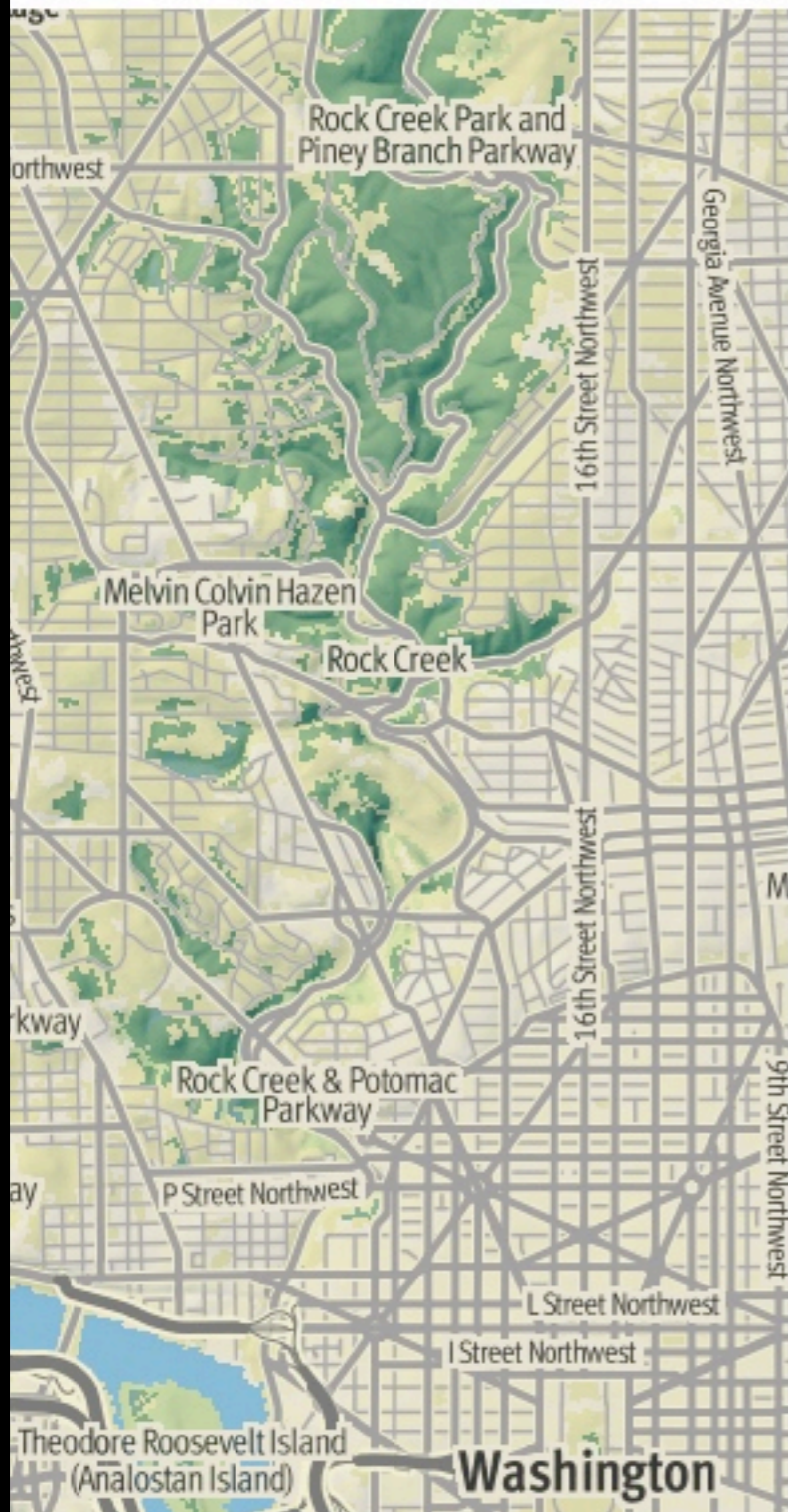




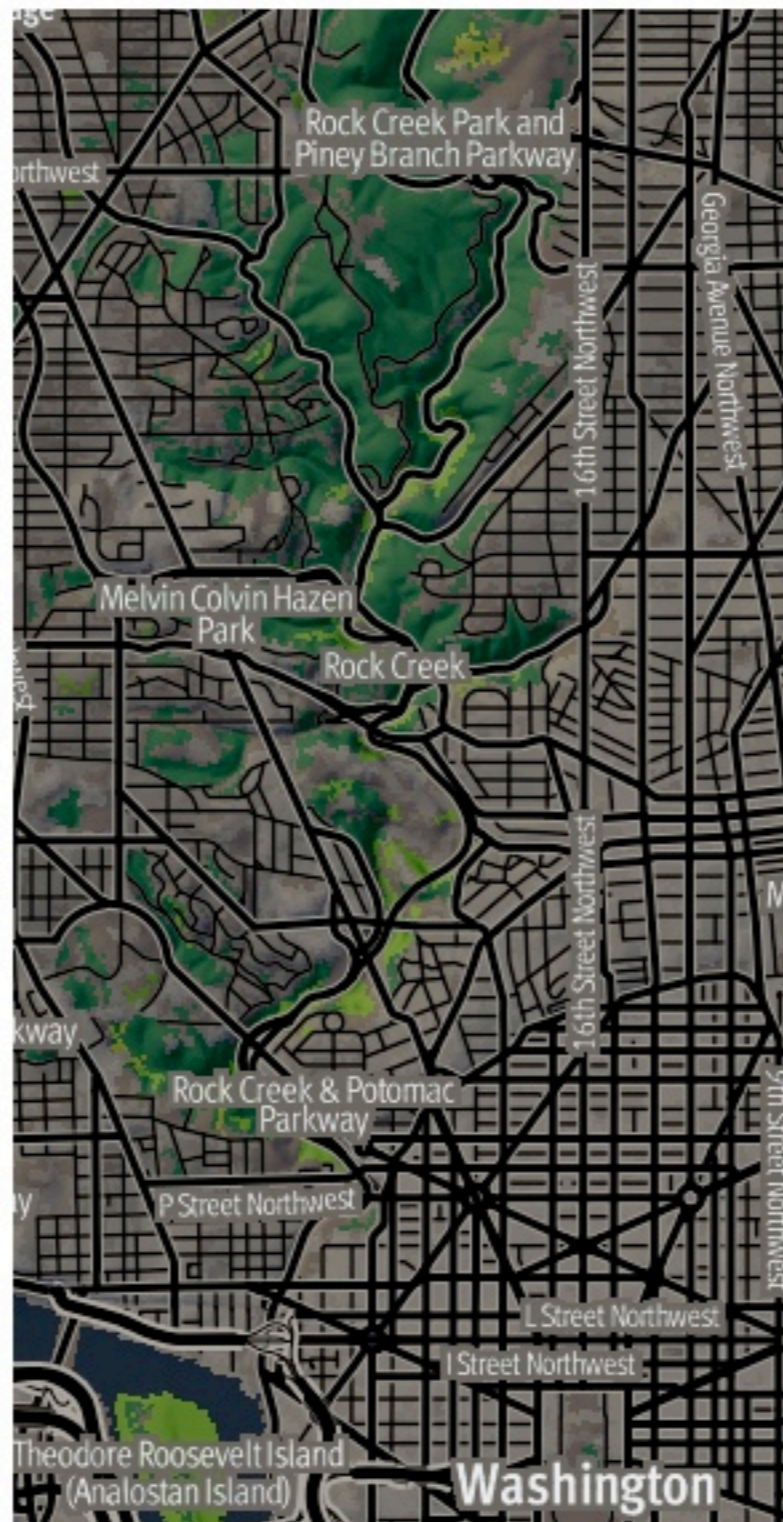




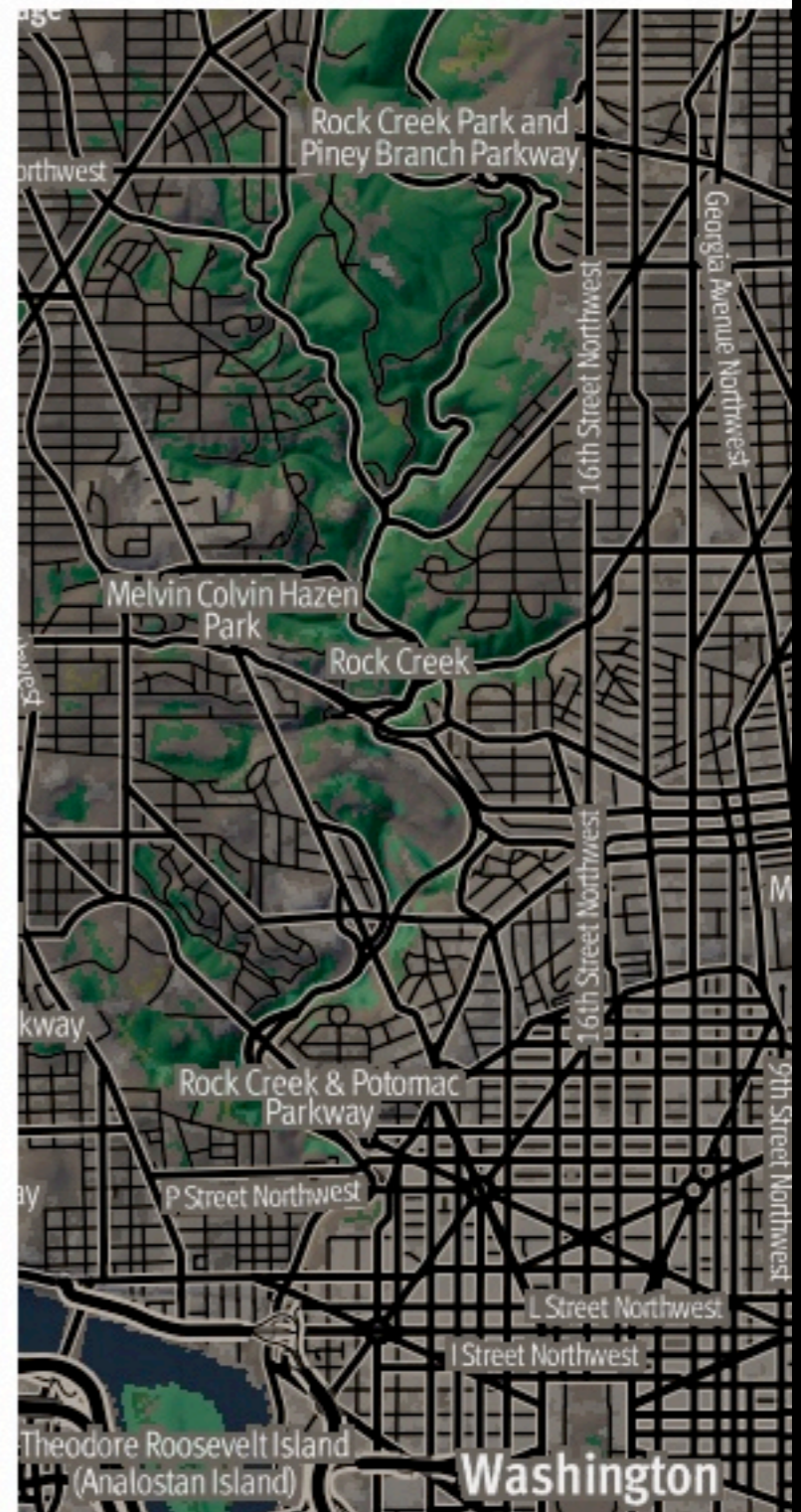
Darker Green



Midnight Terrain



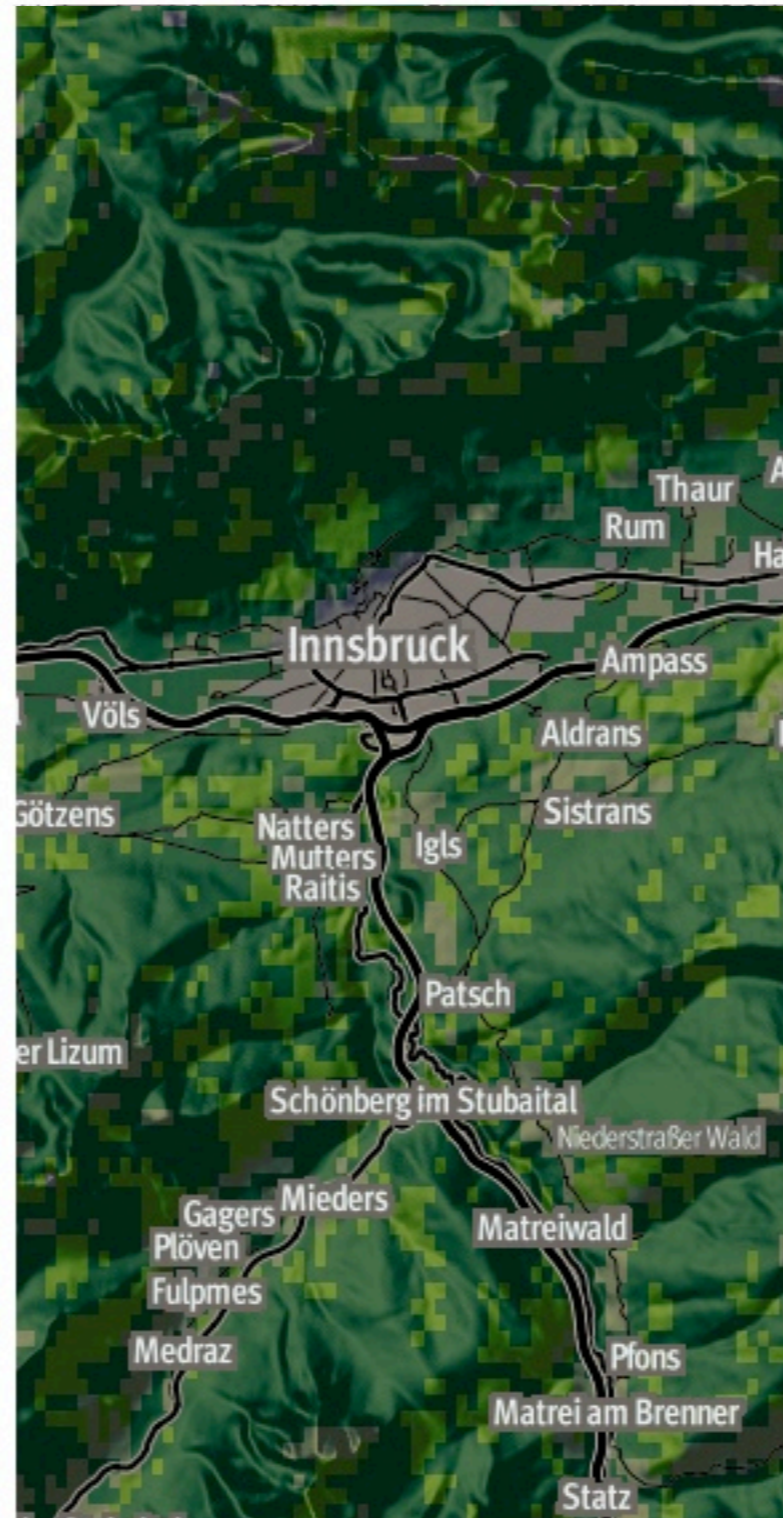
Darker Midnight Terrain



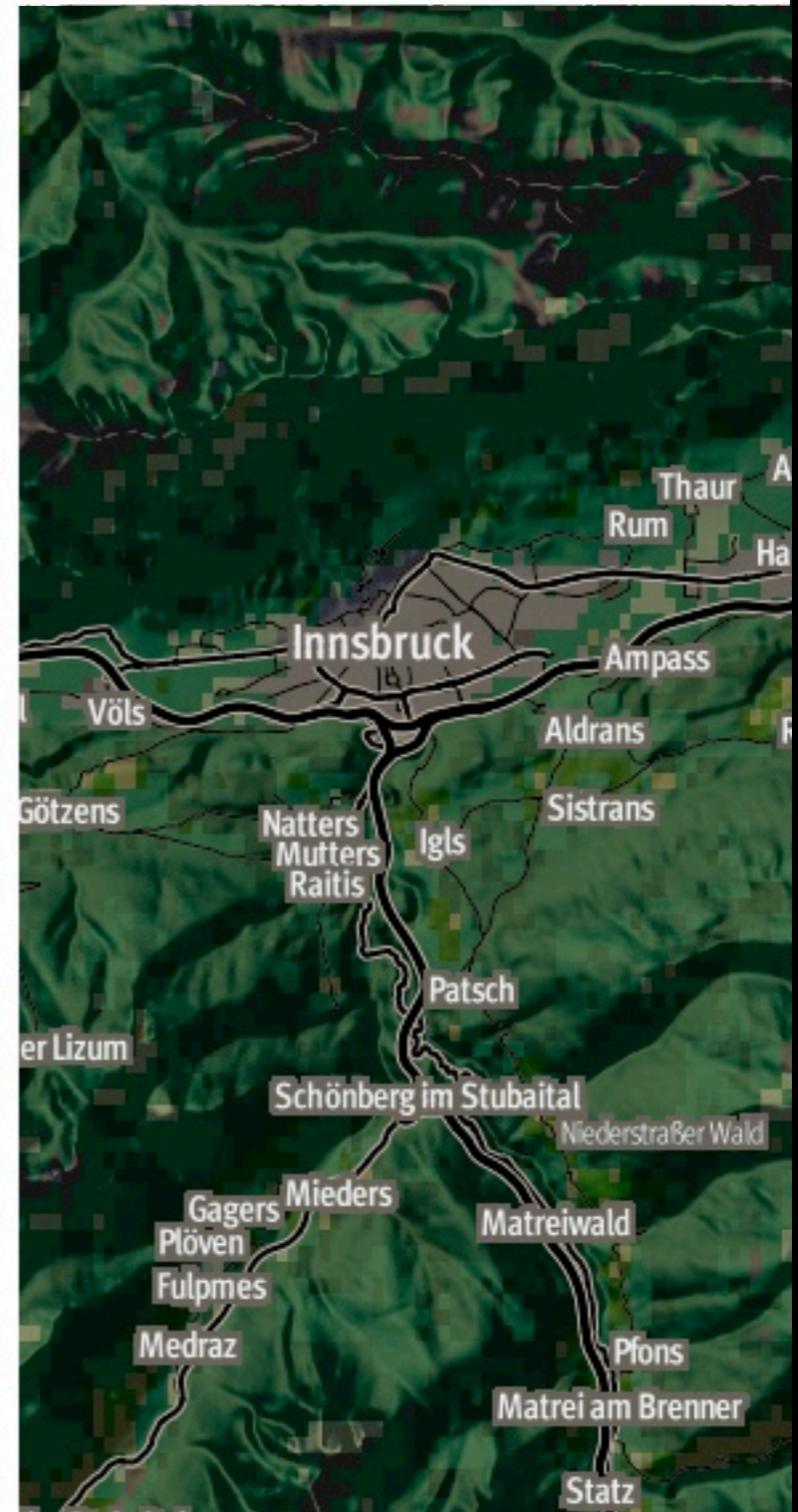
Darker Green

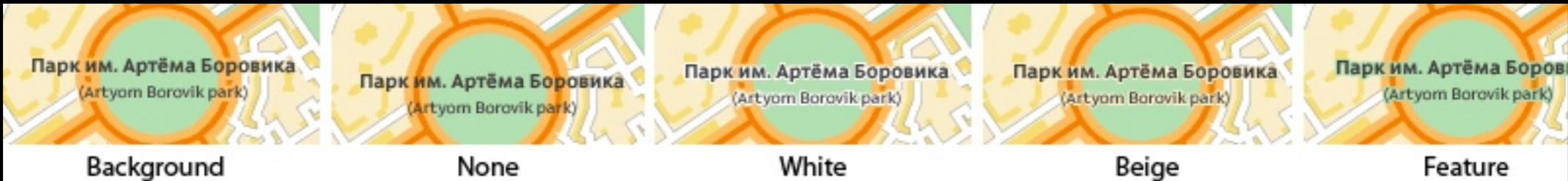


Midnight Terrain



Darker Midnight Terrain





Парк им. Артёма Боровика
(Artyom Borovik park)

Background

Парк им. Артёма Боровика
(Artyom Borovik park)

None

Парк им. Артёма Боровика
(Artyom Borovik park)

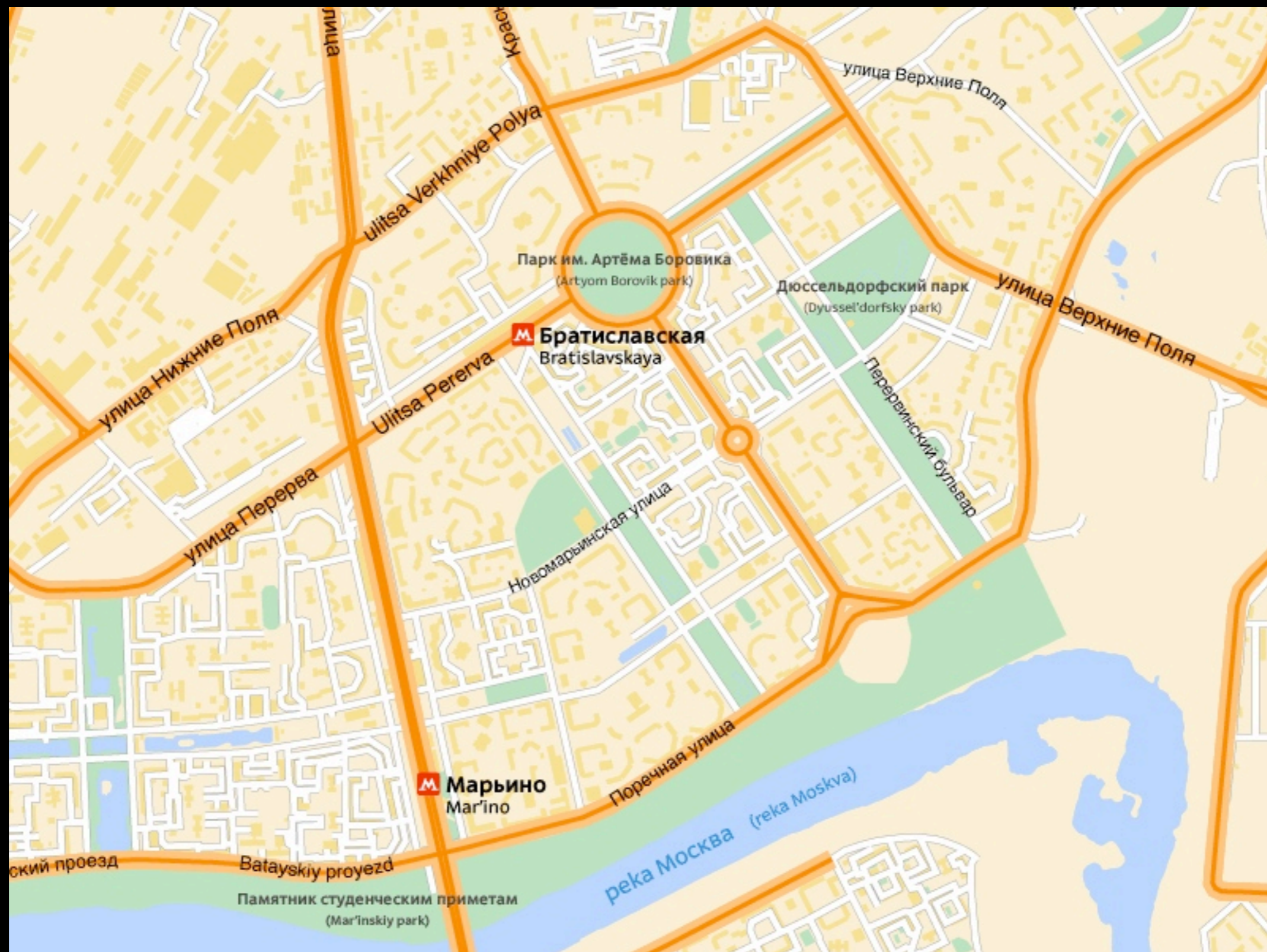
White

Парк им. Артёма Боровика
(Artyom Borovik park)

Beige

Парк им. Артёма Боровика
(Artyom Borovik park)

Feature



Парк им. Артёма Боровика
(Artyom Borovik park)

Дюссельдорфский парк
(Dyussel'dorfsky park)

М Братиславская
Bratslavskaya

улица Нижние Поля

улица Верхние Поля

улица Верхние Поля

улица Верхние Поля

улица Перерва

улица Перерва

Перервинский бульвар

Новомарьинская улица

Поречная улица

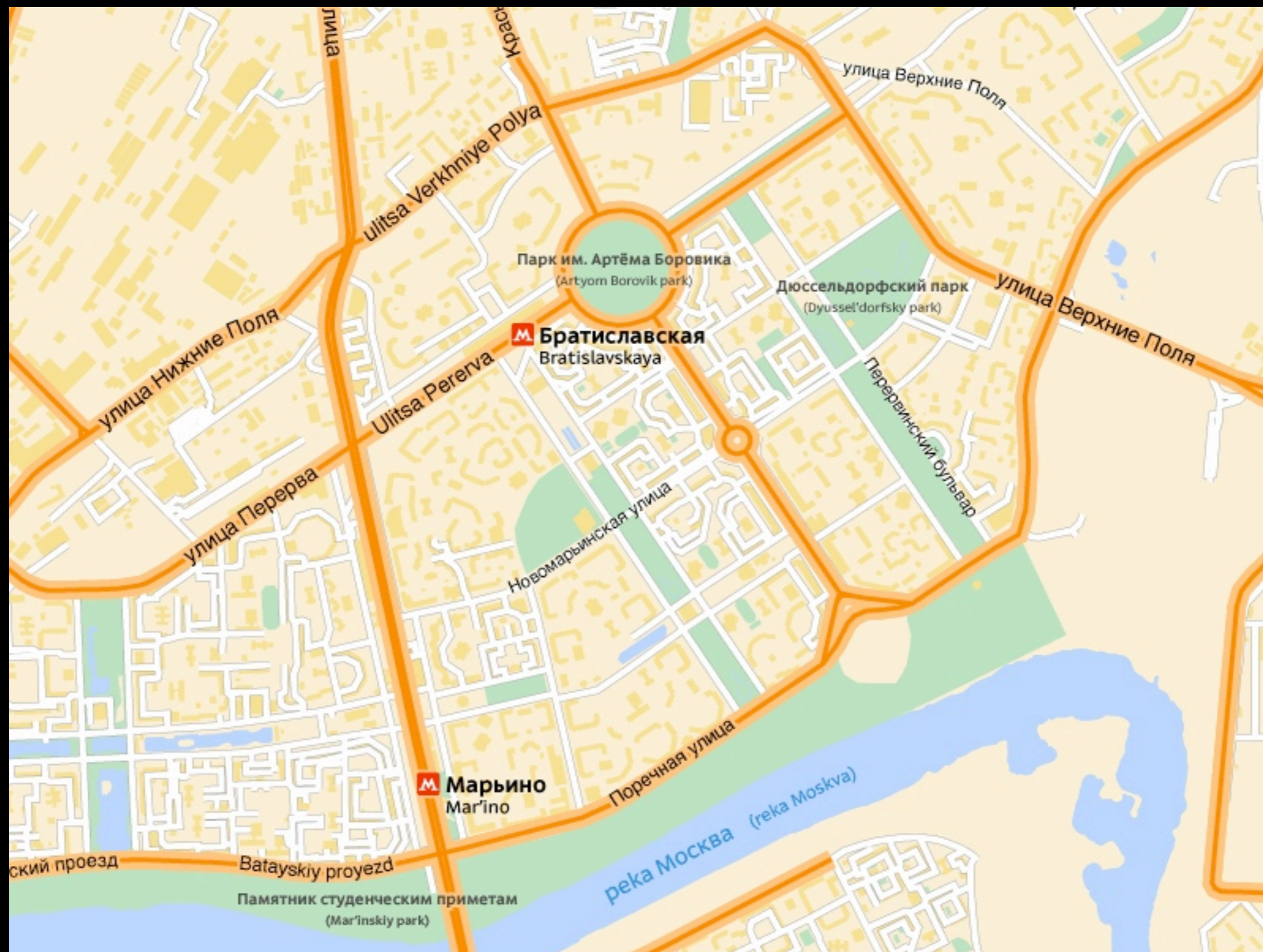
М Марьино
Mari'no

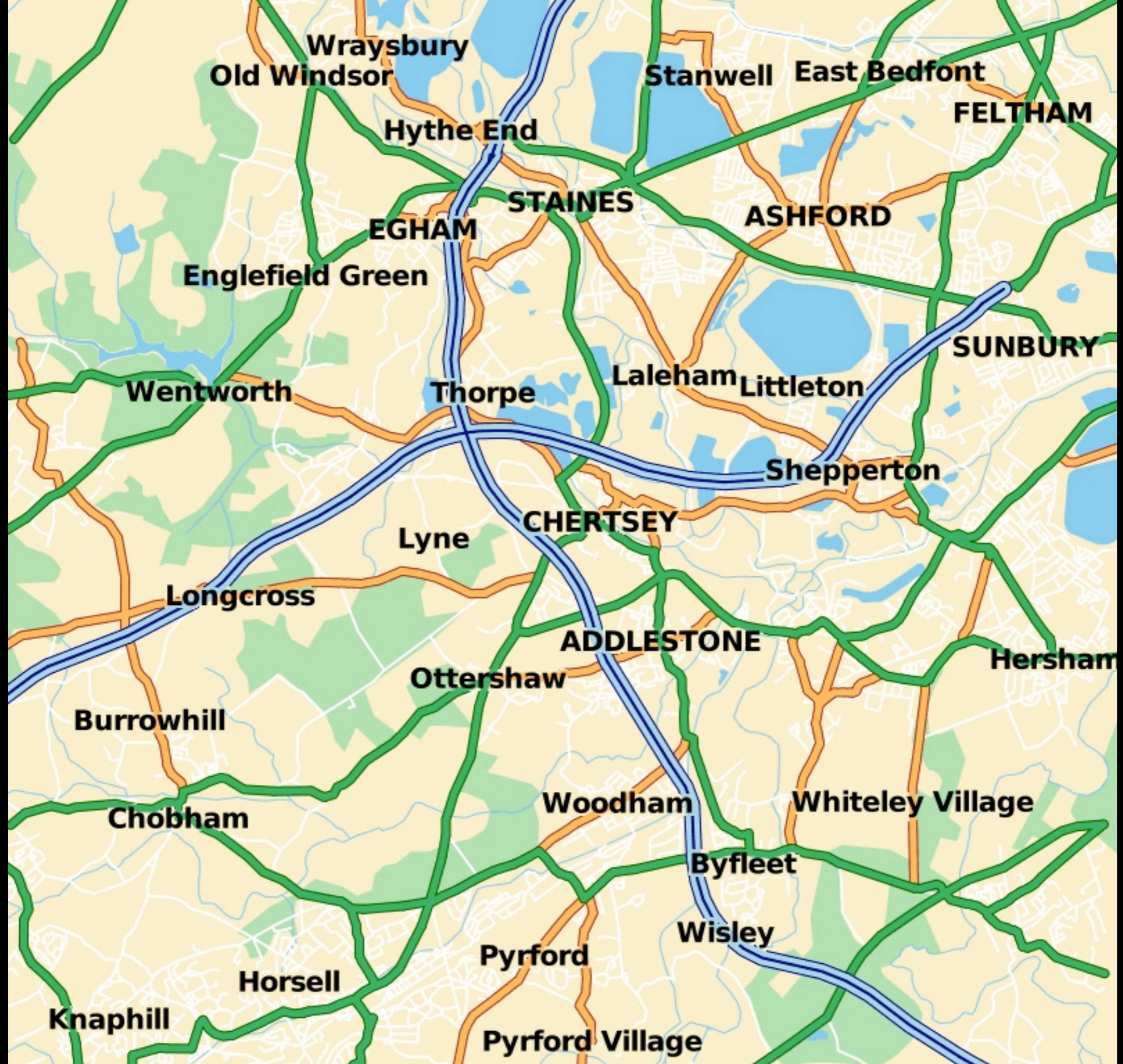
река Москва (reka Moskva)

Ватауский проезд

Ватауский проезд

Памятник студенческим приметам
(Mar'inskiy park)





Wraysbury
Old Windsor

Stanwell East Bedfont

FELTHAM

Hythe End

STAINES

ASHFORD

EGHAM

Englefield Green

SUNBURY

Wentworth

Thorpe

Laleham Littleton

Shepperton

CHERTSEY

Lyne

Longcross

ADDLESTONE

Hersham

Ottershaw

Burrowhill

Woodham

Whiteley Village

Chobham

Byfleet

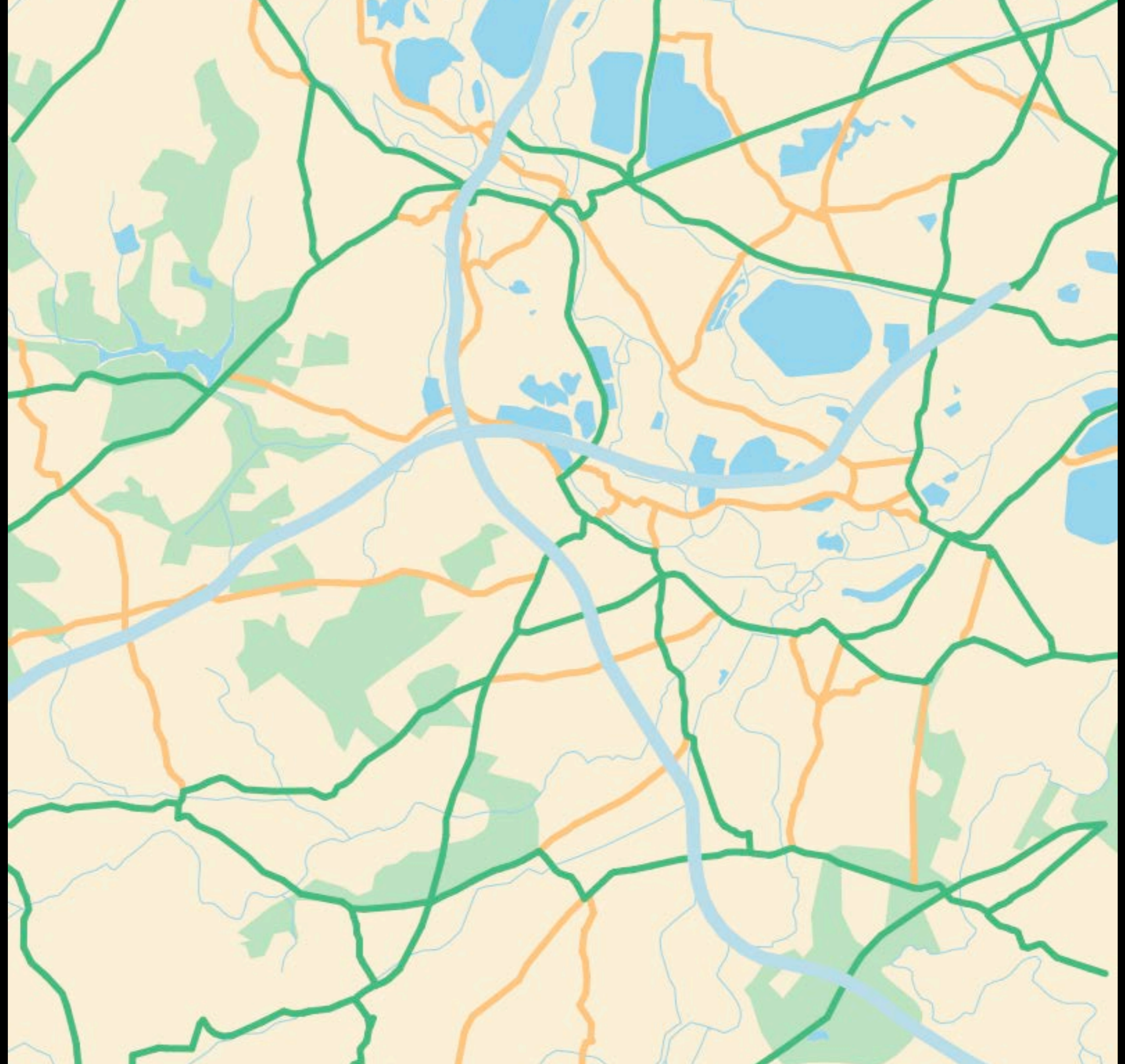
Wisley

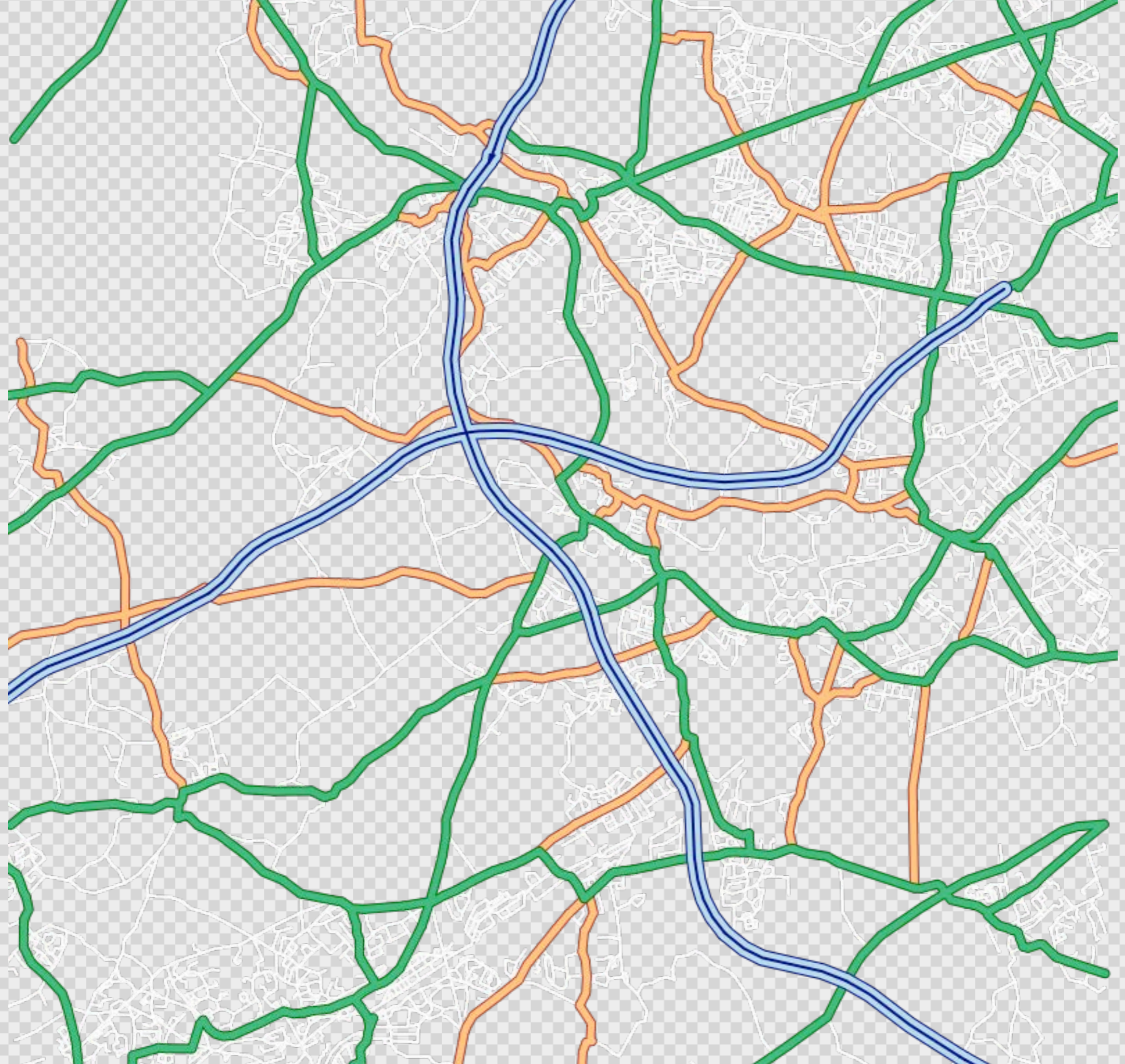
Horsell

Pyrford

Knaphill

Pyrford Village

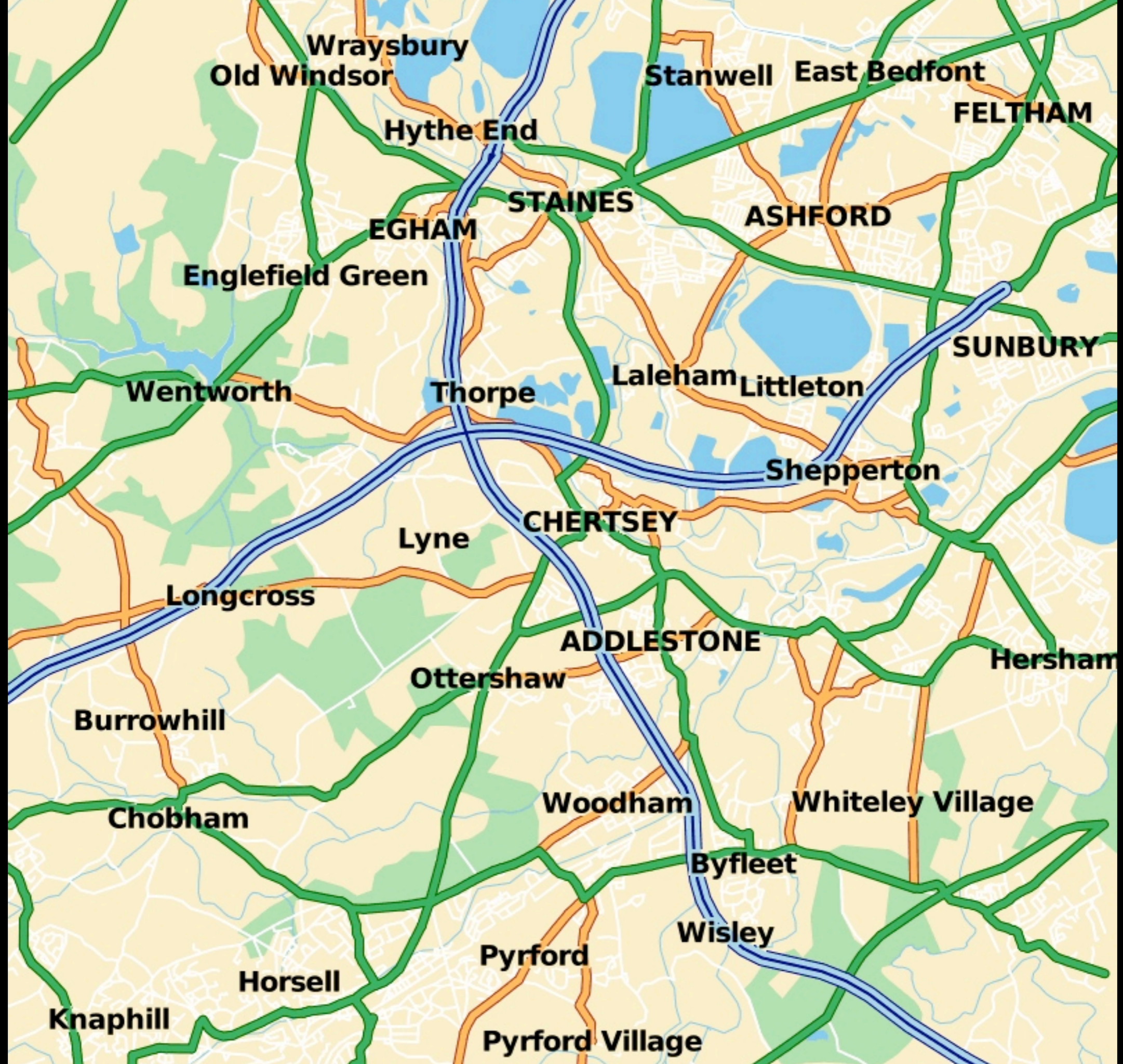




Wraysbury
Old Windsor Stanwell East Bedfont
Hythe End FELTHAM
EGHAM STAINES ASHFORD
Englefield Green
Wentworth Thorpe Laleham Littleton SUNBURY
Lyne Shepperton
Longcross CHERTSEY
Ottershaw ADDLESTONE Hersham
Burrowhill
Chobham Woodham Whiteley Village
Byfleet
Horsell Wisley
Knaphill Pyrford
Pyrford Village

Wingborough
Old Windsor
Staines
East Bedfont
Feltham
Hythe End
Hemel Hempstead
Staines
Aspenden
Englefield Green
Windsor
Thame
Letchworth
Letchworth
Borehamwood
Lymington
Chichester
Langcross
Addlestone
Merton
Barnet
Oxted
Woodham
Whitby Village
Chesham
Byfleet
Witley
Kingscliff
Hemel Hempstead
Pyrford
Pyrford Village

Wraysbury
Old Windsor Stanwell East Bedfont
Hythe End FELTHAM
EGHAM STAINES ASHFORD
Englefield Green
Wentworth Thorpe Laleham Littleton SUNBURY
Lyne Shepperton
Longcross CHERTSEY
Ottershaw ADDLESTONE Hersham
Burrowhill
Chobham Woodham Whiteley Village
Byfleet
Horsell Pyrford Wisley
Knaphill Pyrford Village





PUBLIC

Citytracking / Terrain

Pull Request

Watch

Star

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Fork

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Issues 5

Wiki

Graphs

Admin

<http://tile.stamen.com/terrain/preview.html>

Clone in Mac

ZIP

HTTP

SSH

Git Read-Only

git@github.com:Citytracking/Terrain.git

Read+Write access

branch: master

Files

Commits

Branches 4

Tags

Downloads

Latest commit to the master branch

Merge remote branch 'imposm/subdirectorize'

Michal Migurski authored 3 months ago

commit afe823ff29

Terrain /

name	age	message	history
hillfarm	6 months ago	Added city-names-halomask layer to stack.html and z8 renders to show it [Michal Migurski]	
landcover	9 months ago	oops [Michal Migurski]	
mapnik	3 months ago	Merge remote branch 'imposm/subdirectorize' [Michal Migurski]	
renders	6 months ago	Split mapnik/Makefile into just-Mapnik and all-Terrain parts [Michal Migurski]	
Makefile	6 months ago	Replaced old cities* and style.xml configuration with new lines* and ... [Michal Migurski]	
README.md	9 months ago	Added a short description [Michal Migurski]	
renders.html	6 months ago	Split mapnik/Makefile into just-Mapnik and all-Terrain parts [Michal Migurski]	
tilestache.cfg	6 months ago	Replaced old cities* and style.xml configuration with new lines* and ... [Michal Migurski]	

PUBLIC

nvkelso / geo-how-to

Pull Request

Unwatch

Unstar

67

Fork

5

README.md



The tips and tricks here are oriented to BYOD (bring your down data) mapping and OpenStreetMap obliquely.

Presentation cartography and basic inventory mapping is the focus here. Spatial analytics is touched upon briefly but is not the main focus. This site makes assumptions that OpenSource GIS mostly means: PostGIS as a spatial data store and Mapnik as a rendering engine, a Mappy CSS styling language like Cascadenik or Carto to setup the layers and their appearance. Interactivity is briefly touched on. Actually embedding the resulting tile assets is briefly touched on.

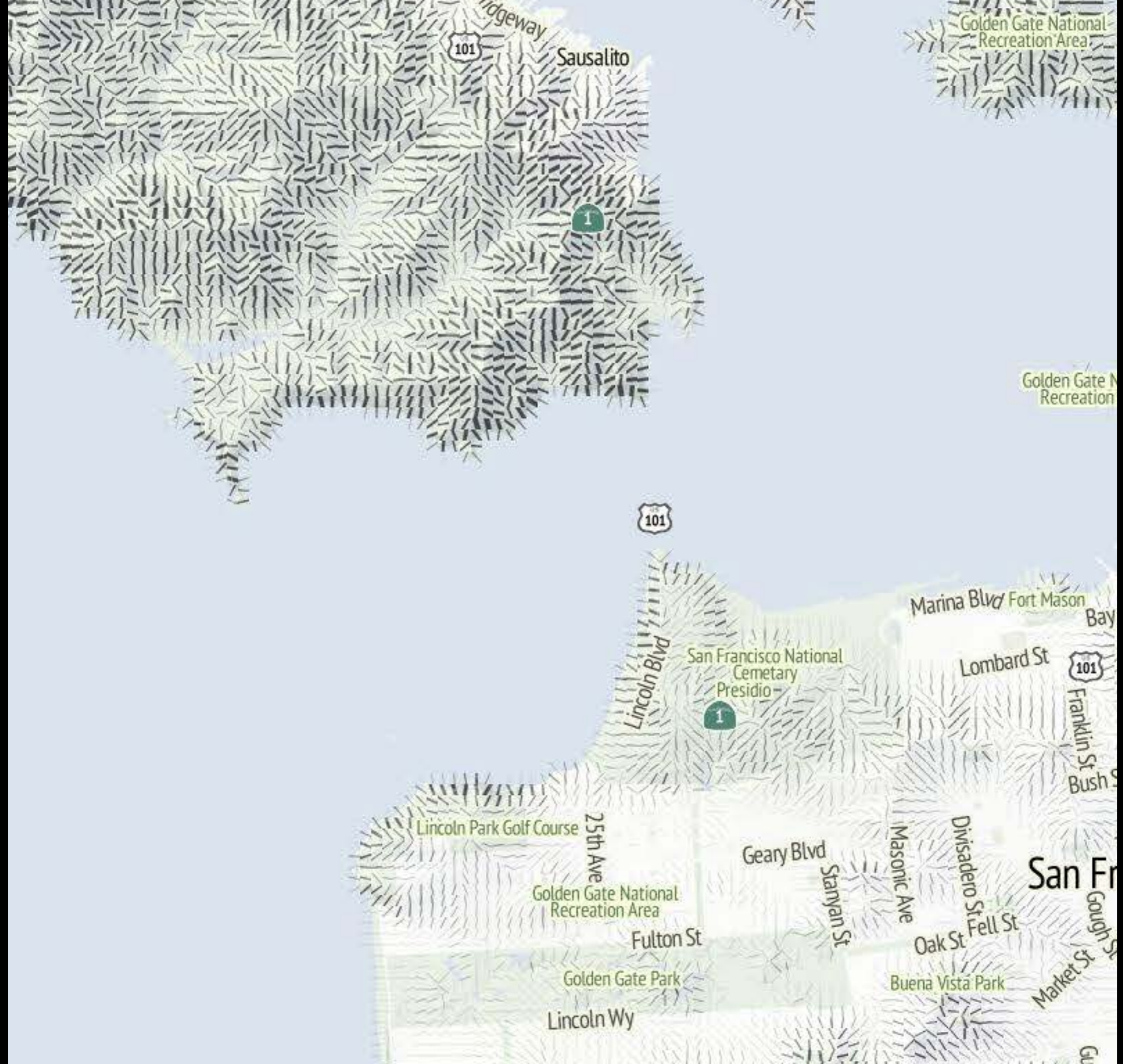
Looking for an overview of OSM instead? Check out the [Switch2osm](#) site.

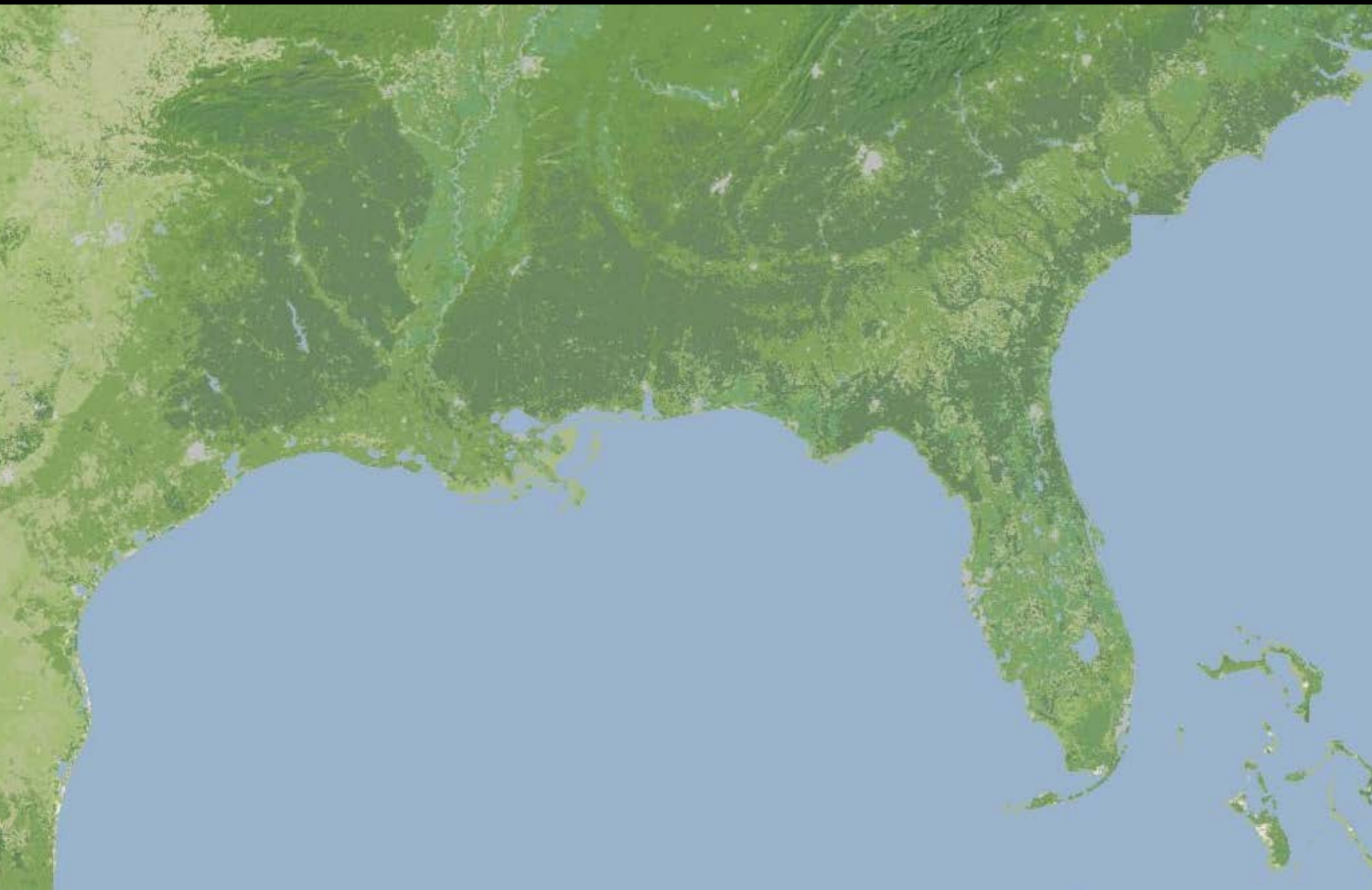
Getting started

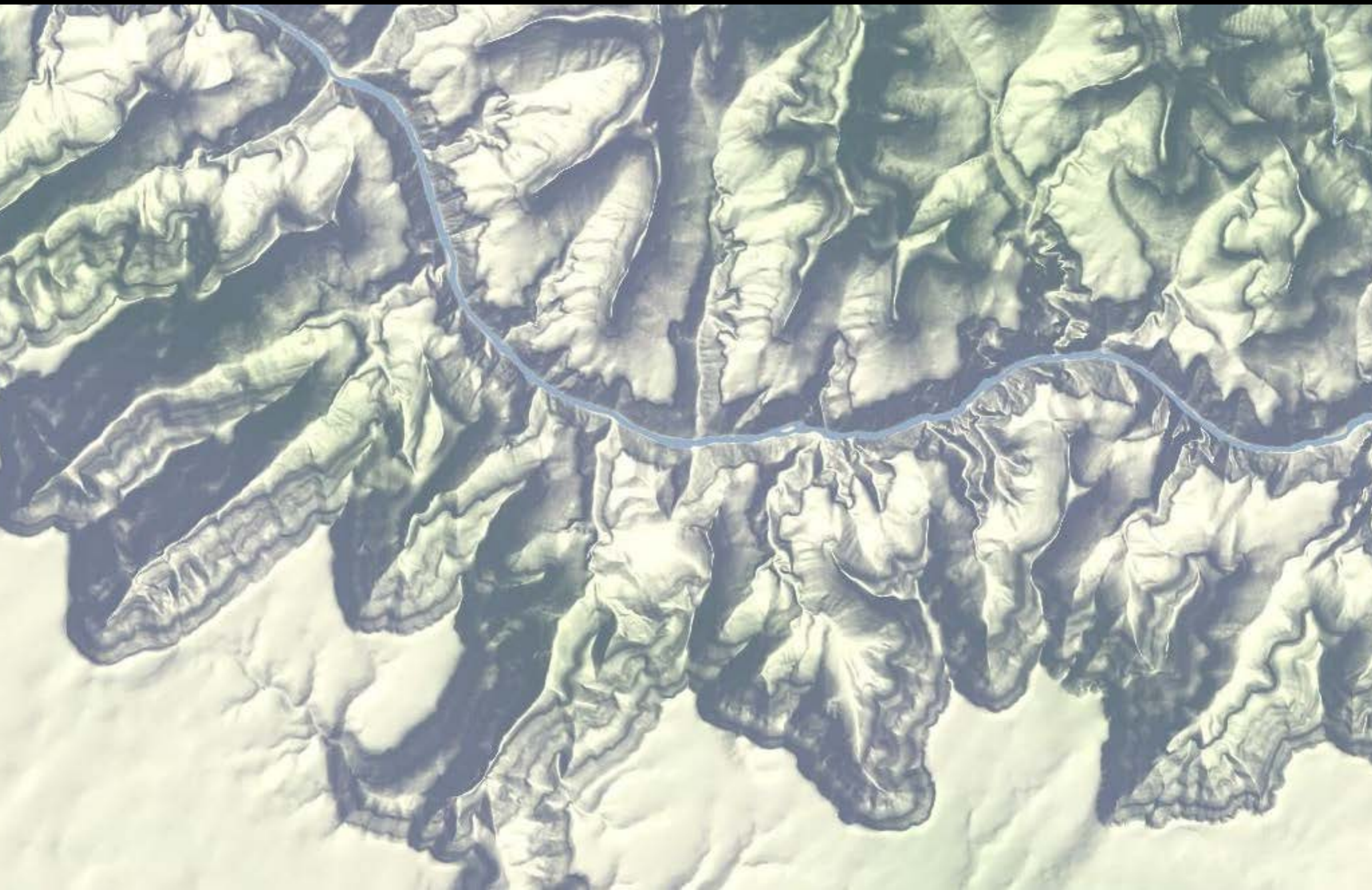
- [Software](#) - Install critical software and links to tutorials.
- [Data](#) - Download OSM and Natural Earth data.
- [Example workflow](#) - Start a project, import data, export data, create tiles.

Questions?

kelso.it/x/mcw2012







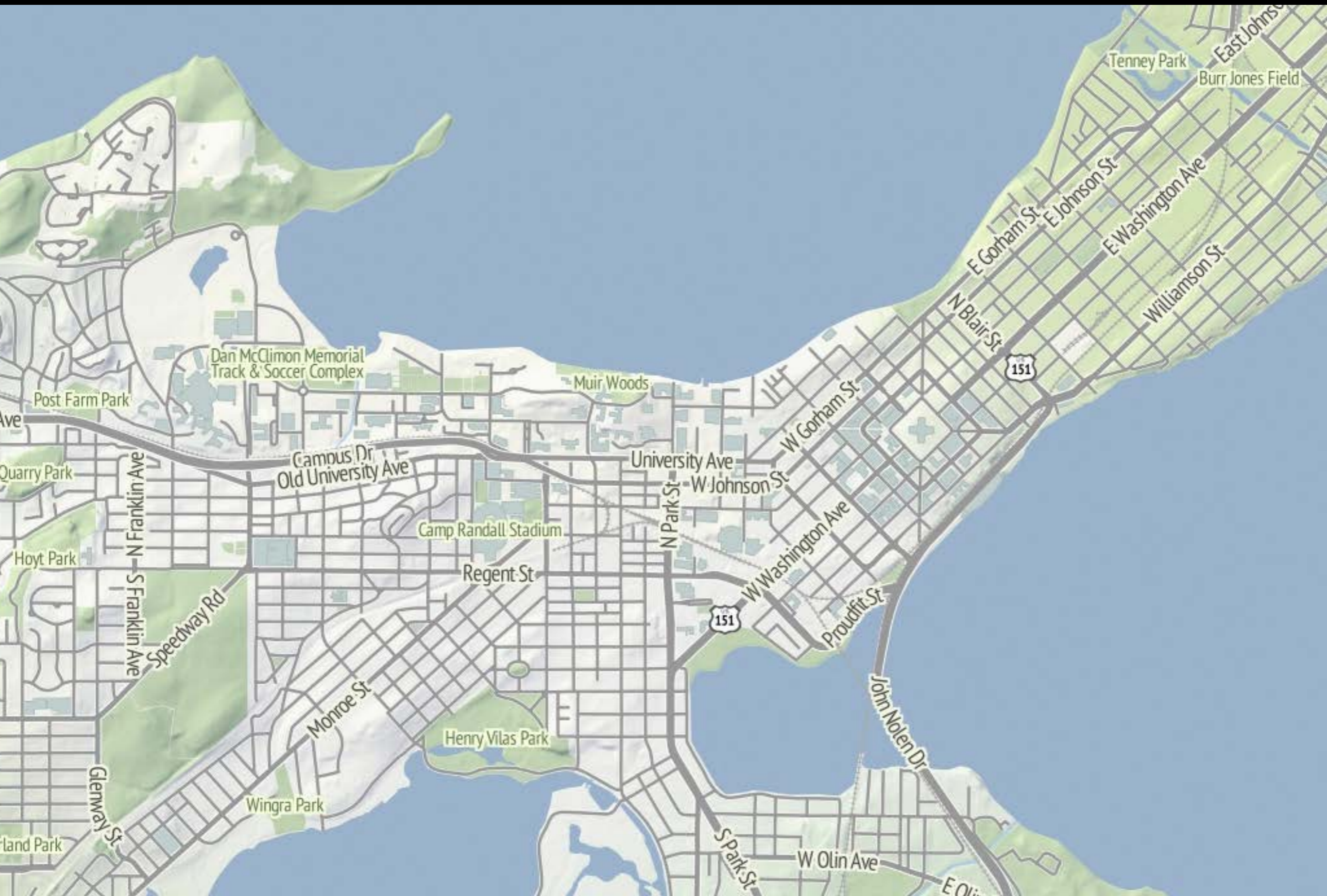


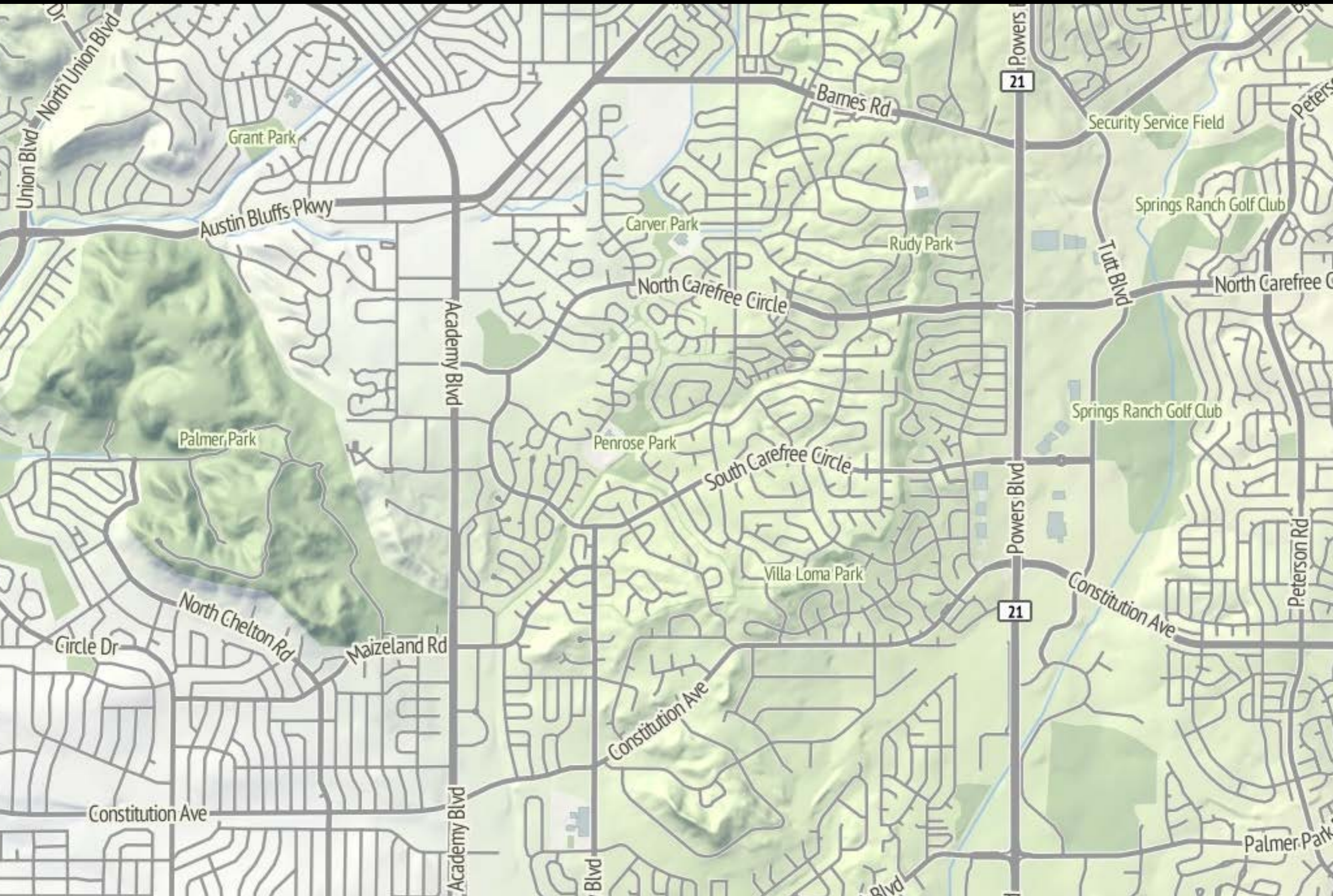
Whiskeytown-Shasta-Trinity
Natl Rec Area

5

5

5





Union Blvd
North Union Blvd

Austin Bluffs Pkwy

Academy Blvd

21 Powers

Barnes Rd

Grant Park

Security Service Field

Carver Park

Rudy Park

Springs Ranch Golf Club

North Carefree Circle

Tuttle Blvd

North Carefree C

Palmer Park

Penrose Park

Springs Ranch Golf Club

South Carefree Circle

Villa Loma Park

Powers Blvd

Circle Dr

North Chelton Rd

Maizeland Rd

21

Constitution Ave

Peterson Rd

Constitution Ave

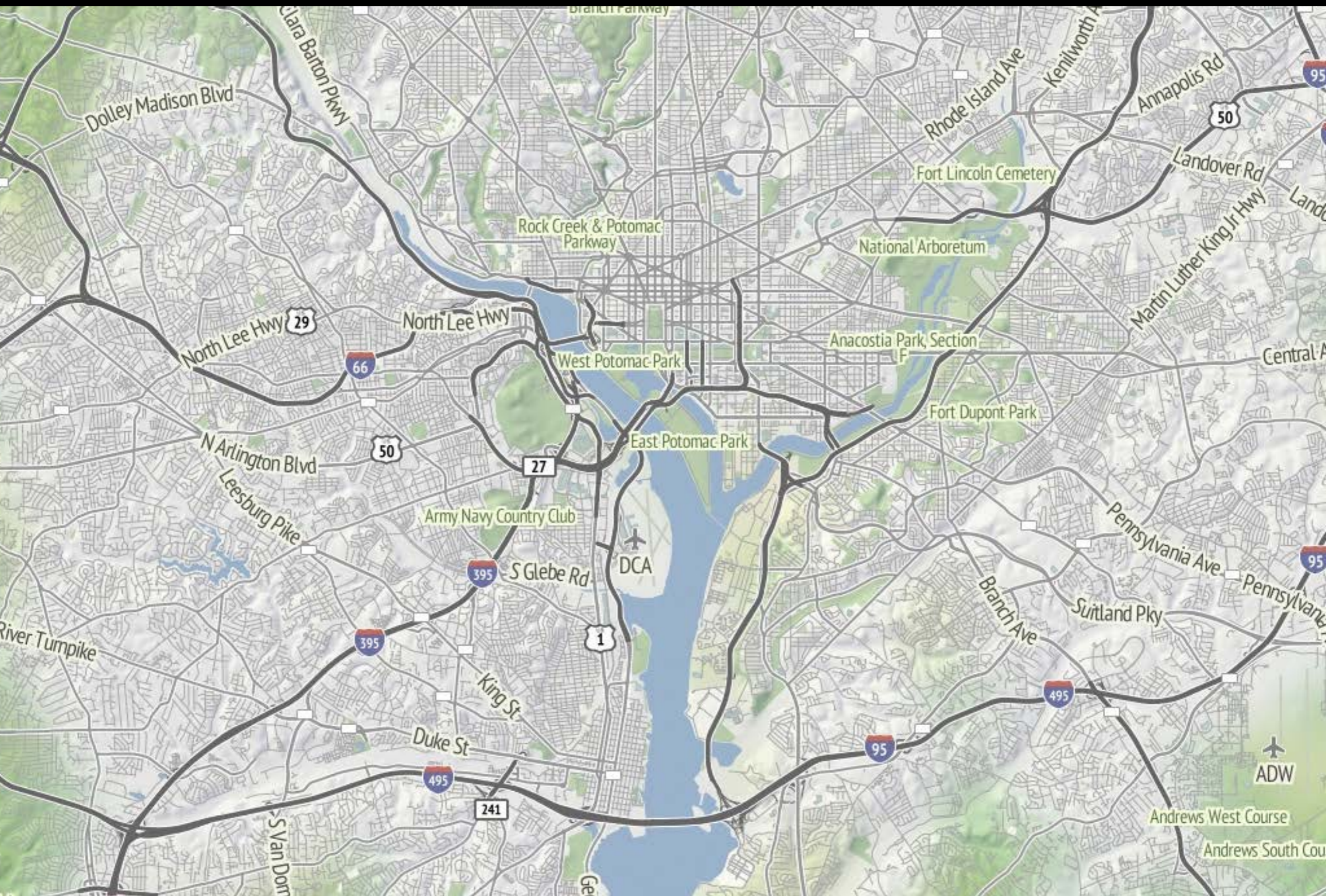
Constitution Ave

Academy Blvd

Palmer Park

Blvd

Blvd



Dolley Madison Blvd

Clara Barton Pkwy

North Lee Hwy 29

66

N Arlington Blvd

50

Leesburg Pike

27

Army Navy Country Club

S Glebe Rd

395

1

King St

Duke St

495

241

S Van Dorn

Ge

West Potomac Park

East Potomac Park

DCA

Rock Creek & Potomac Parkway

National Arboretum

Anacostia Park, Section F

Fort Dupont Park

Fort Lincoln Cemetery

Pennsylvania Ave

Suitland Pkwy

Branch Ave

Rhode Island Ave

Kenilworth A

Annapolis Rd

Landover Rd

Martin Luther King Jr Hwy

95

50

Land

Central A

95

Pennsylvania

ADW

Andrews West Course

Andrews South Cou