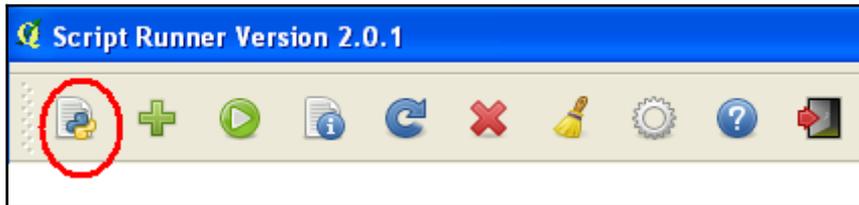
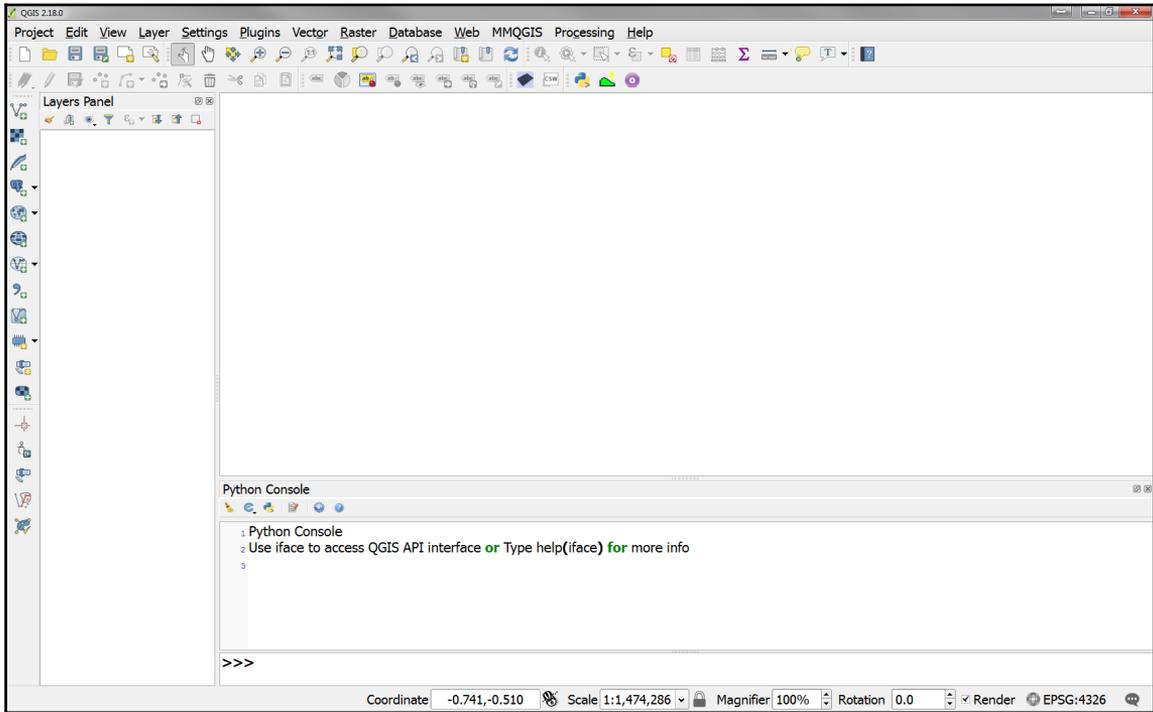
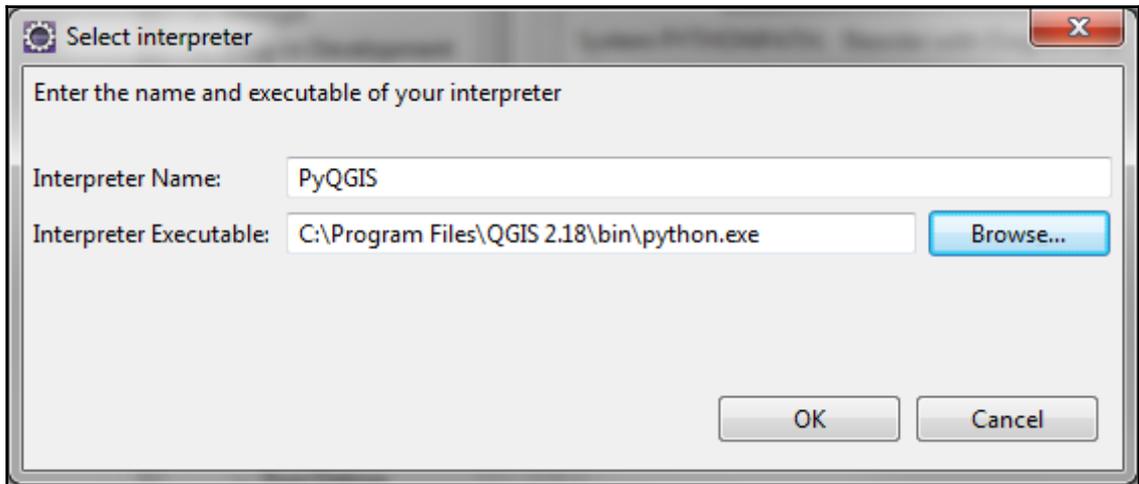
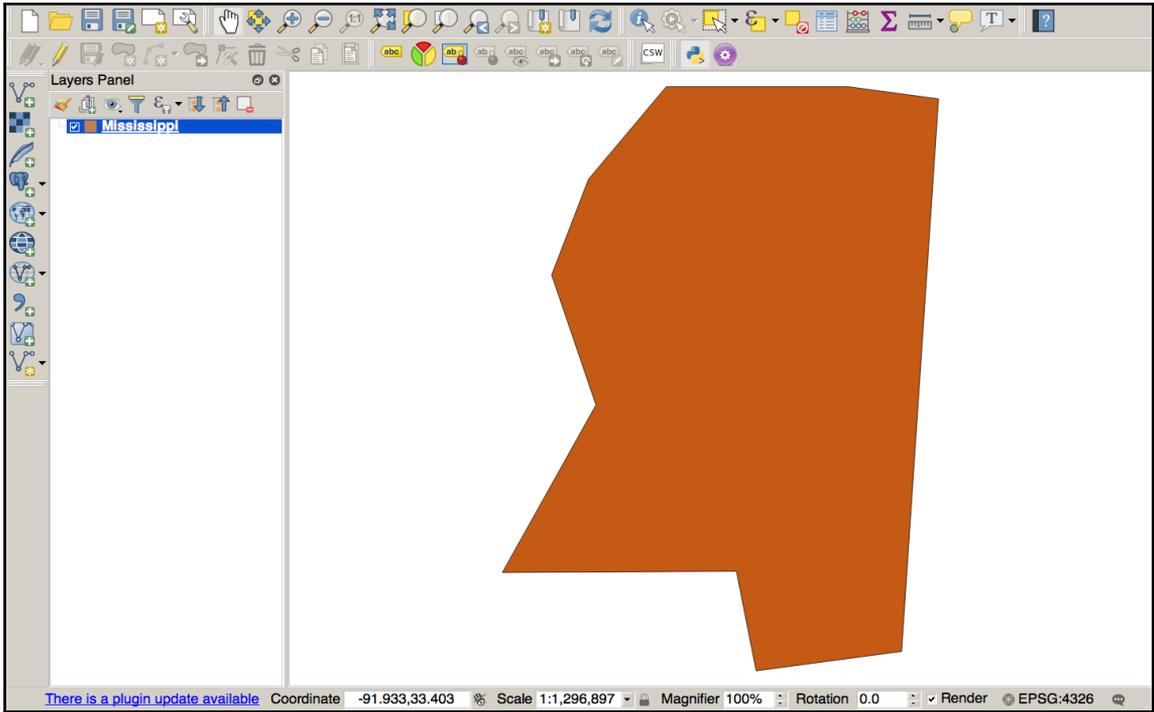
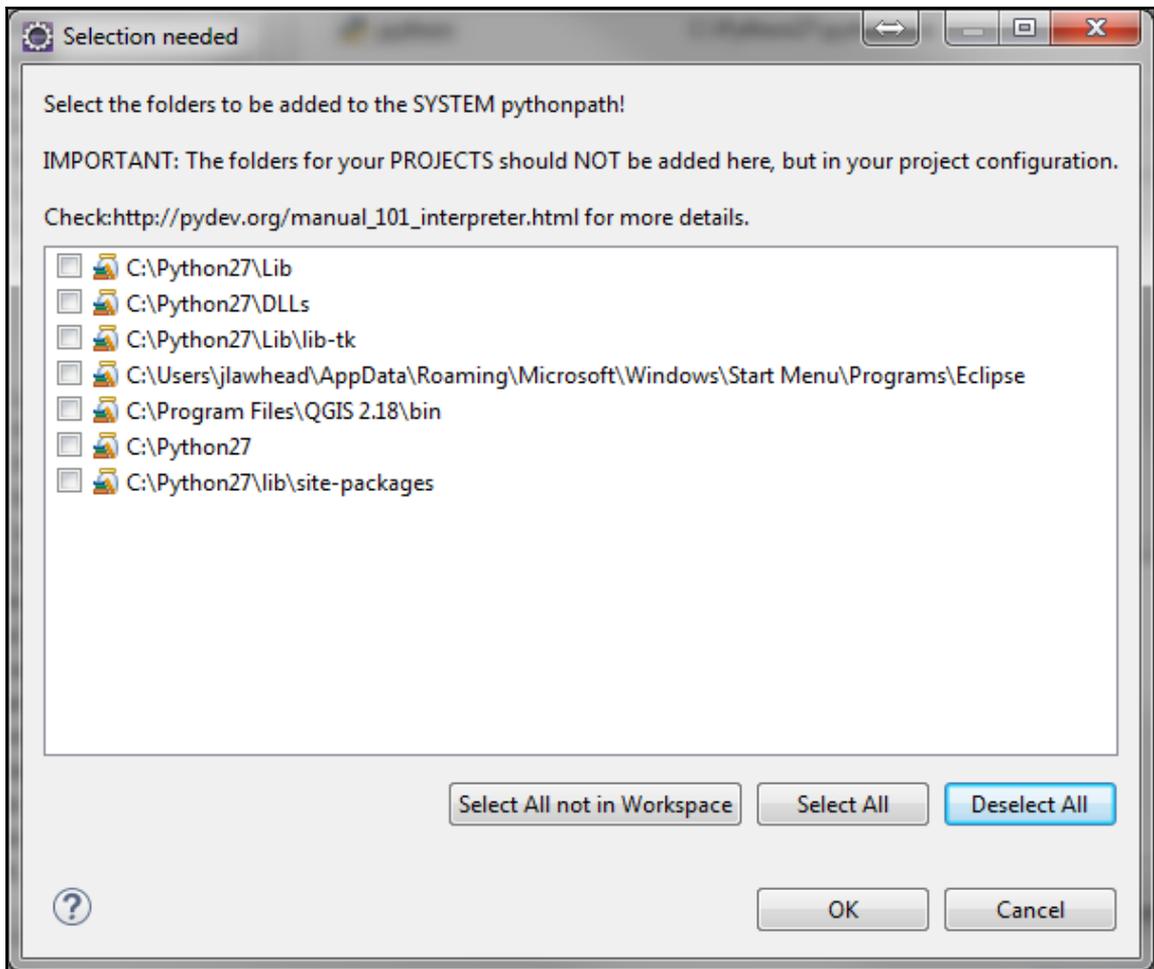
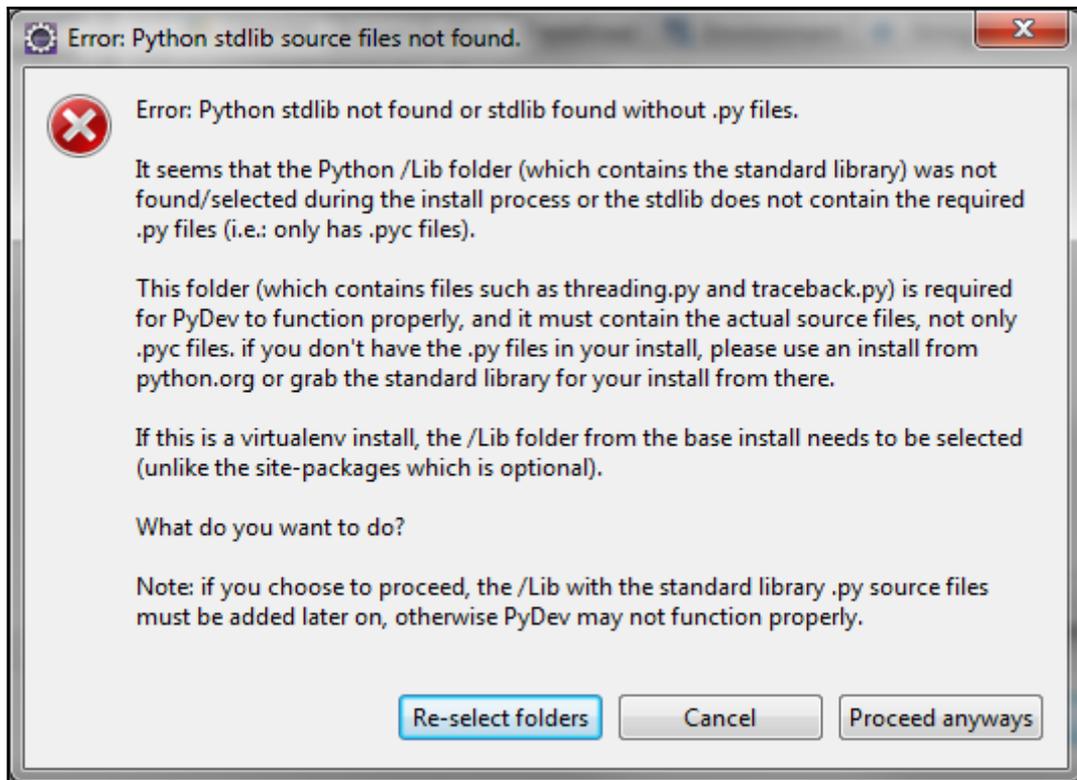


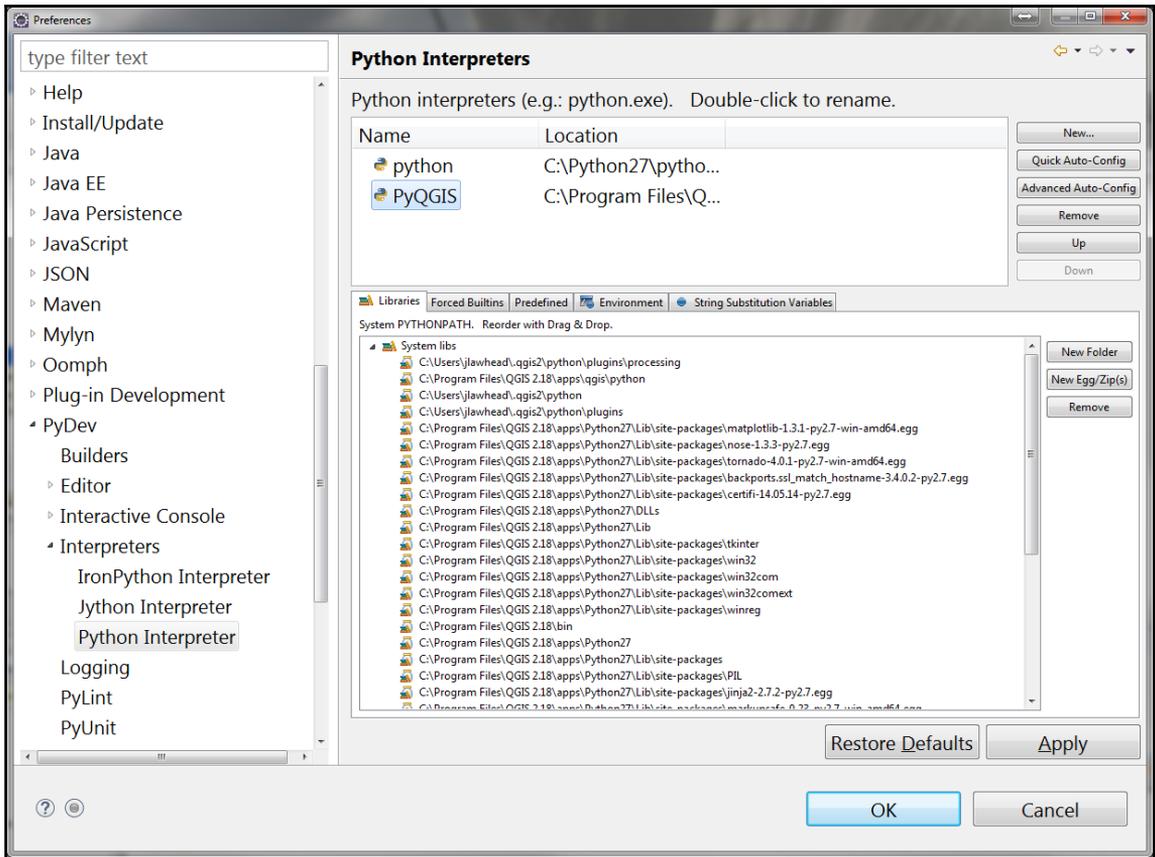
Chapter 1: Automating QGIS

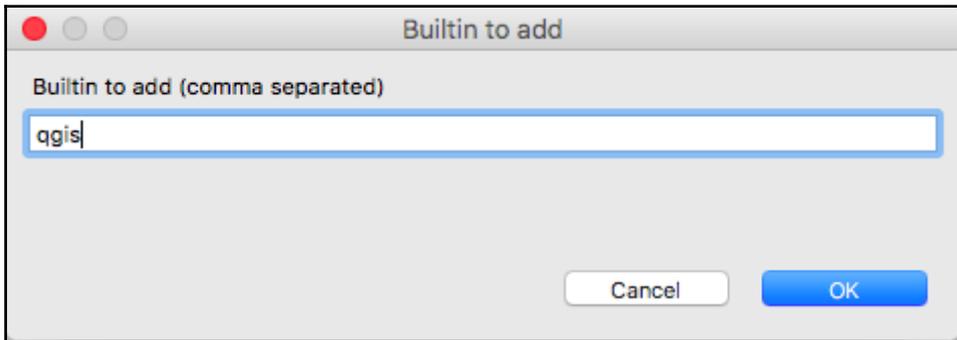
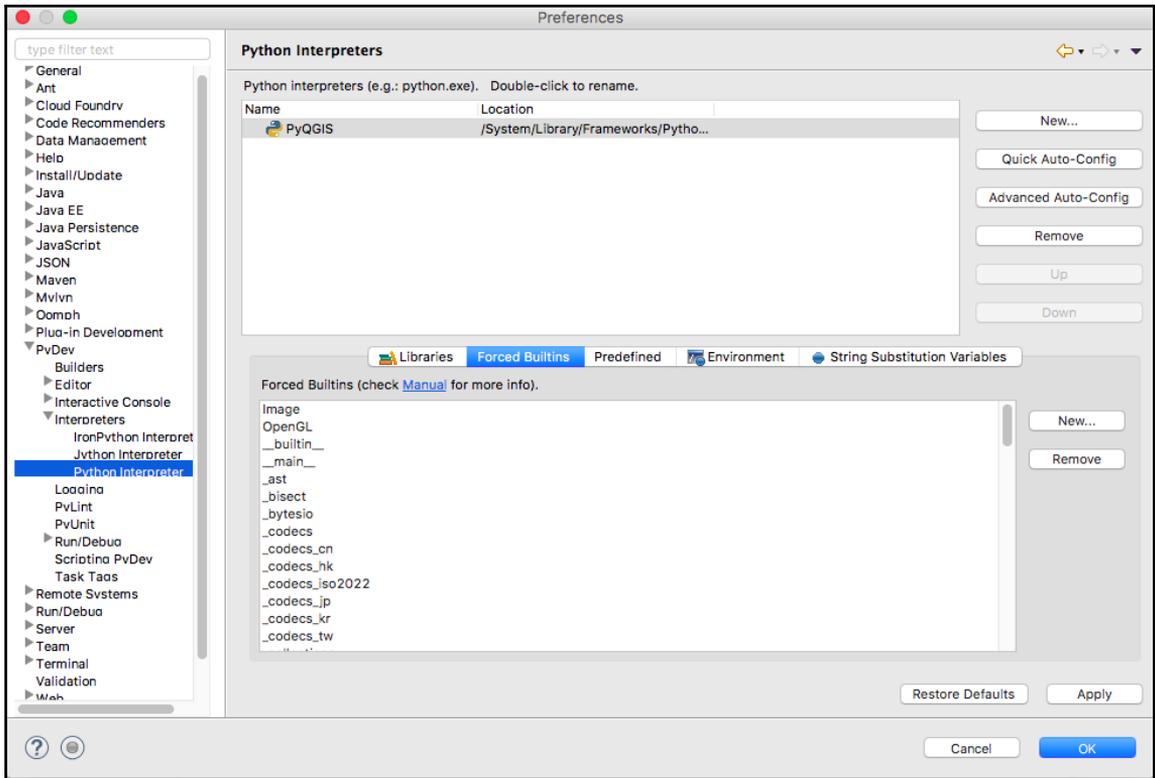


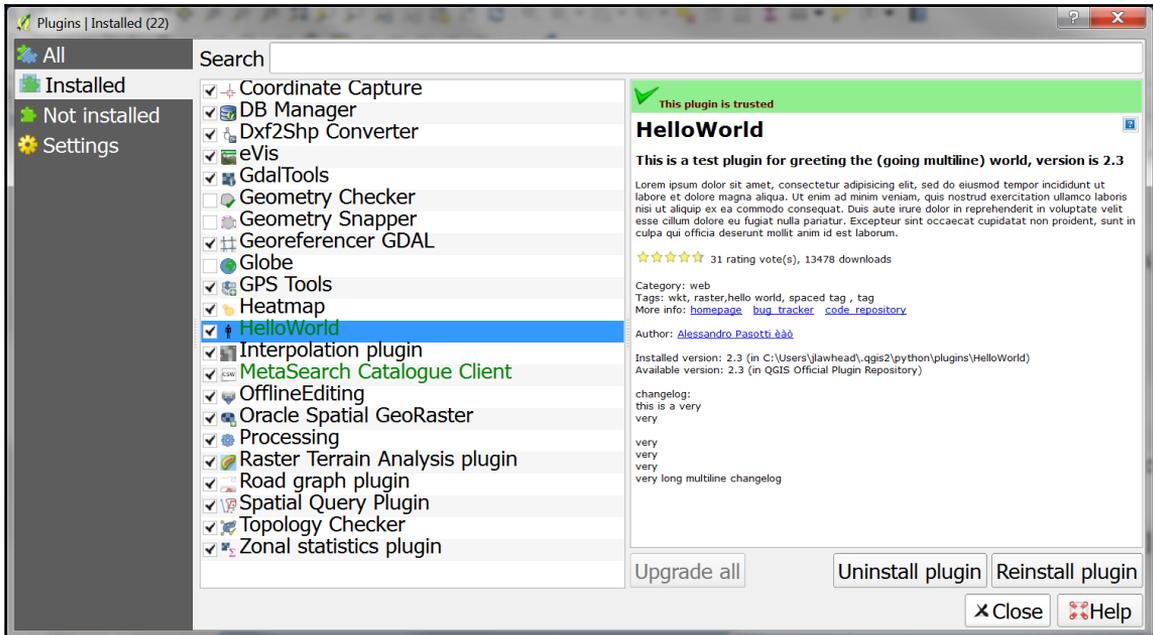
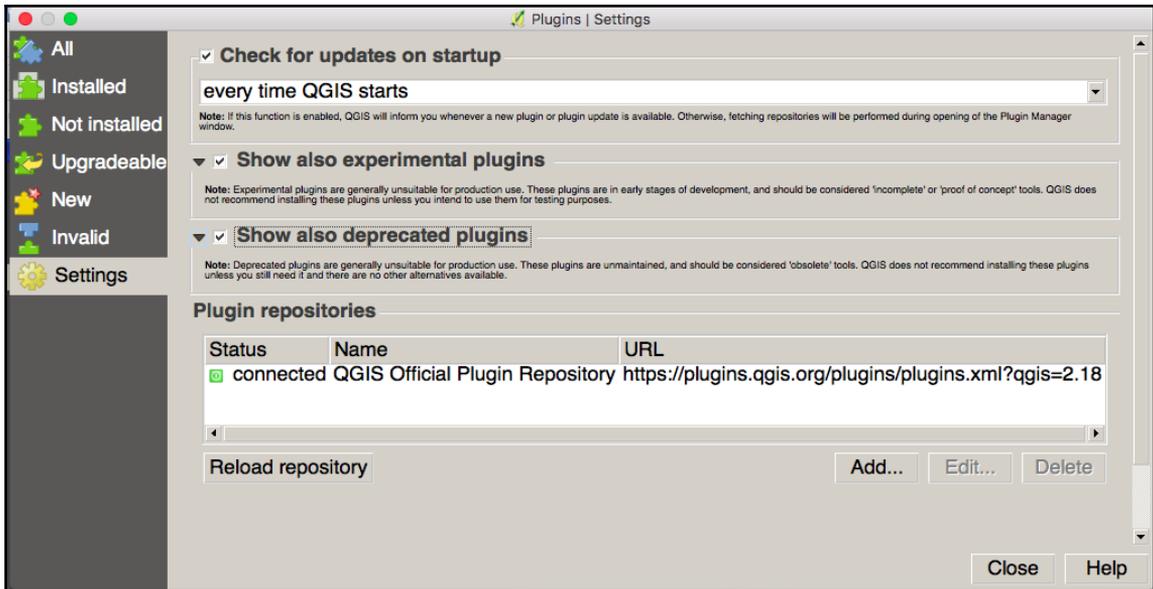










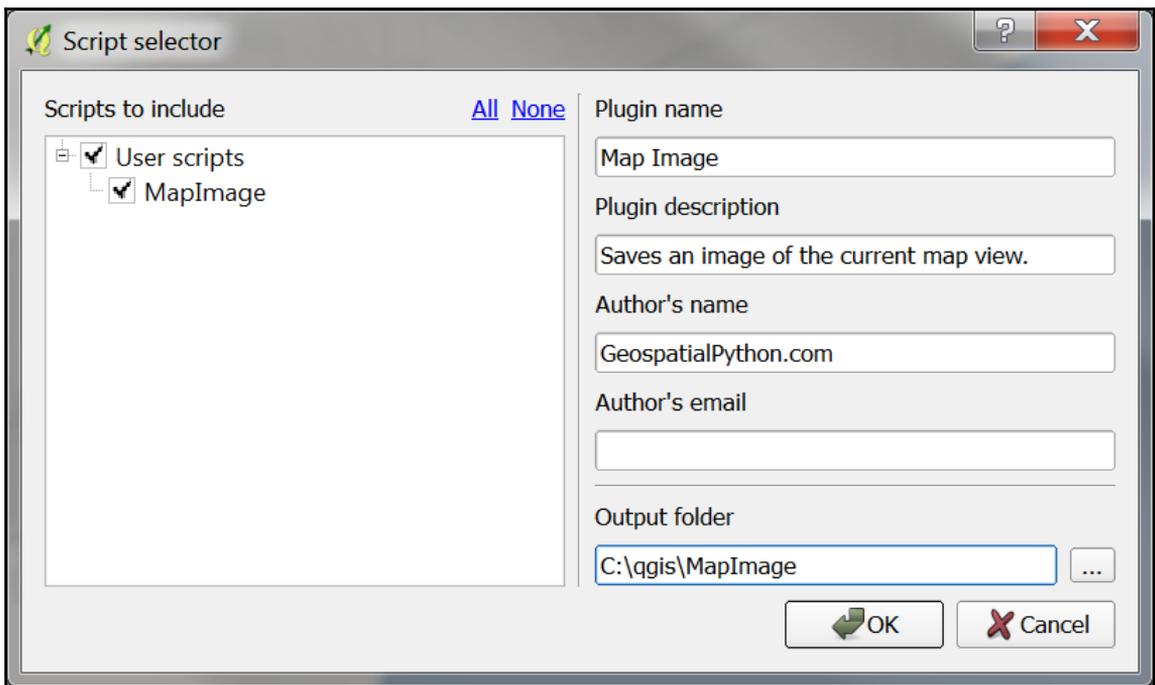


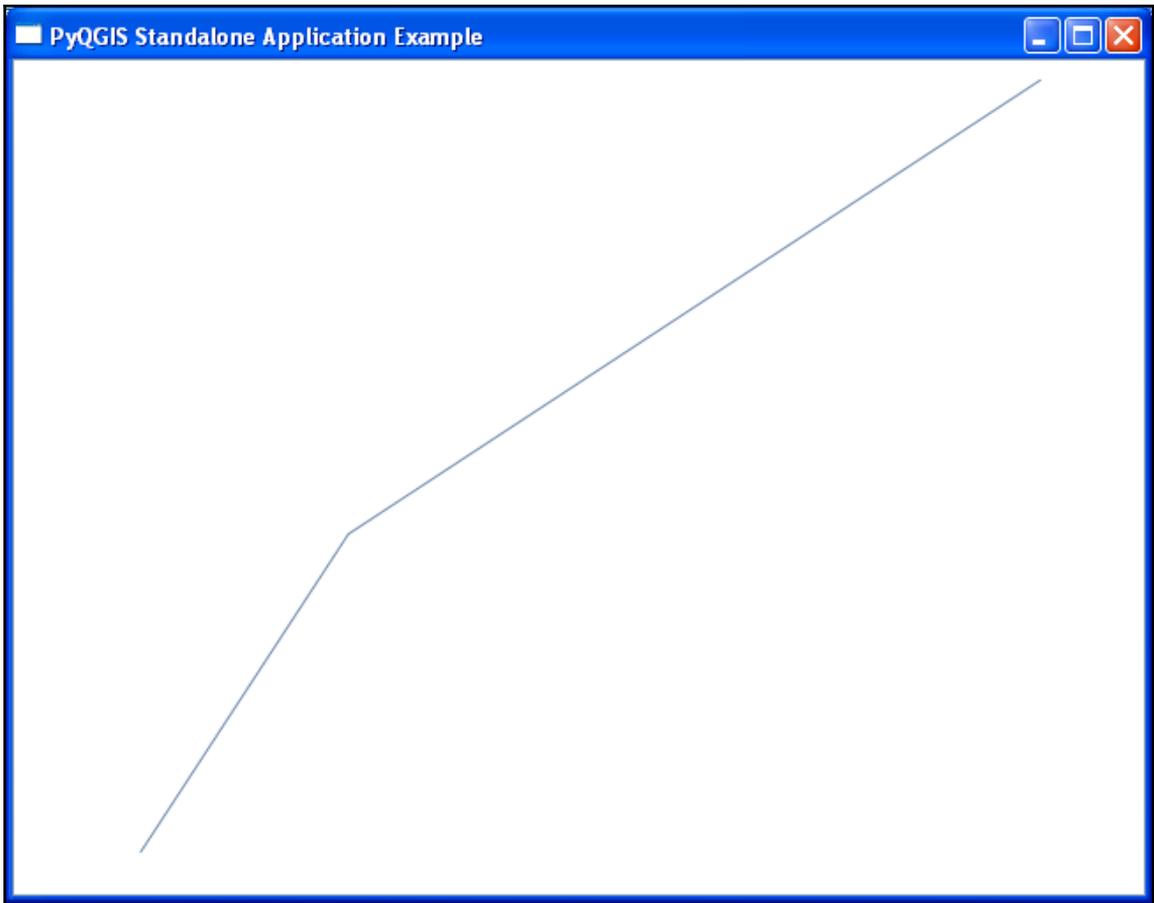
```
30
31 # run
32 def hello_world(self):
33     QMessageBox.information(self iface.mainW
34     return
35
36
37
38
39 if __name__ == "__main__":
40     pass
41
```

QGIS Plugin Builder - Version 2.16.0

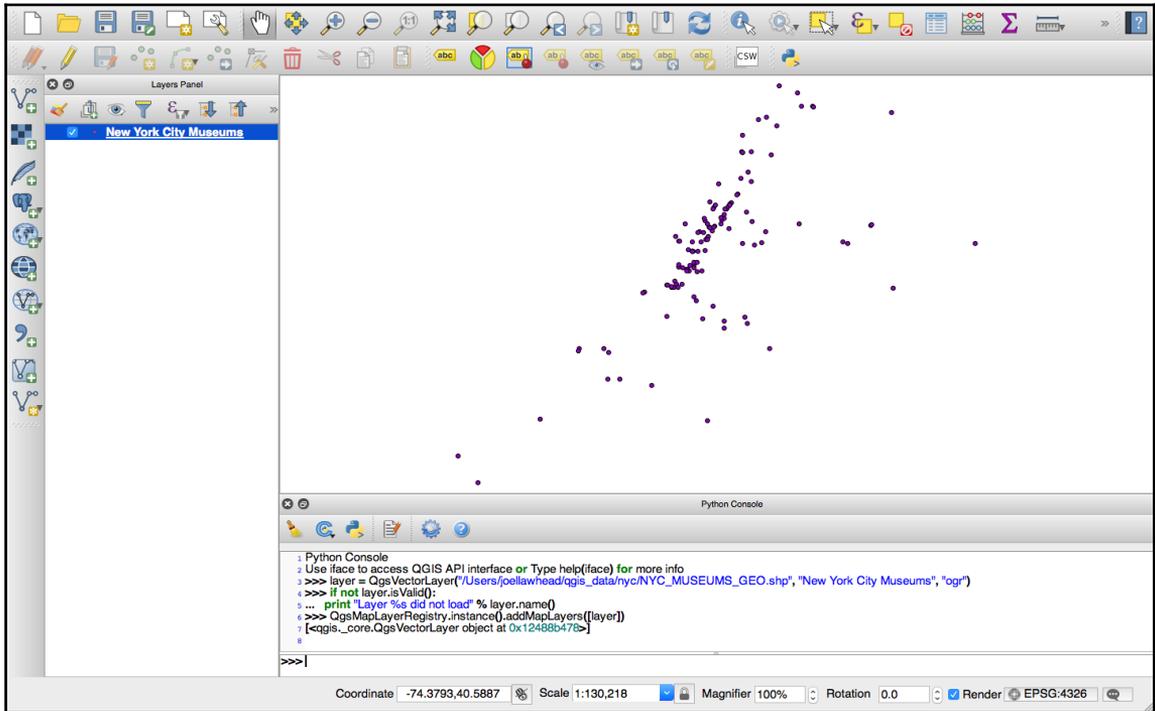
QGIS Plugin Builder

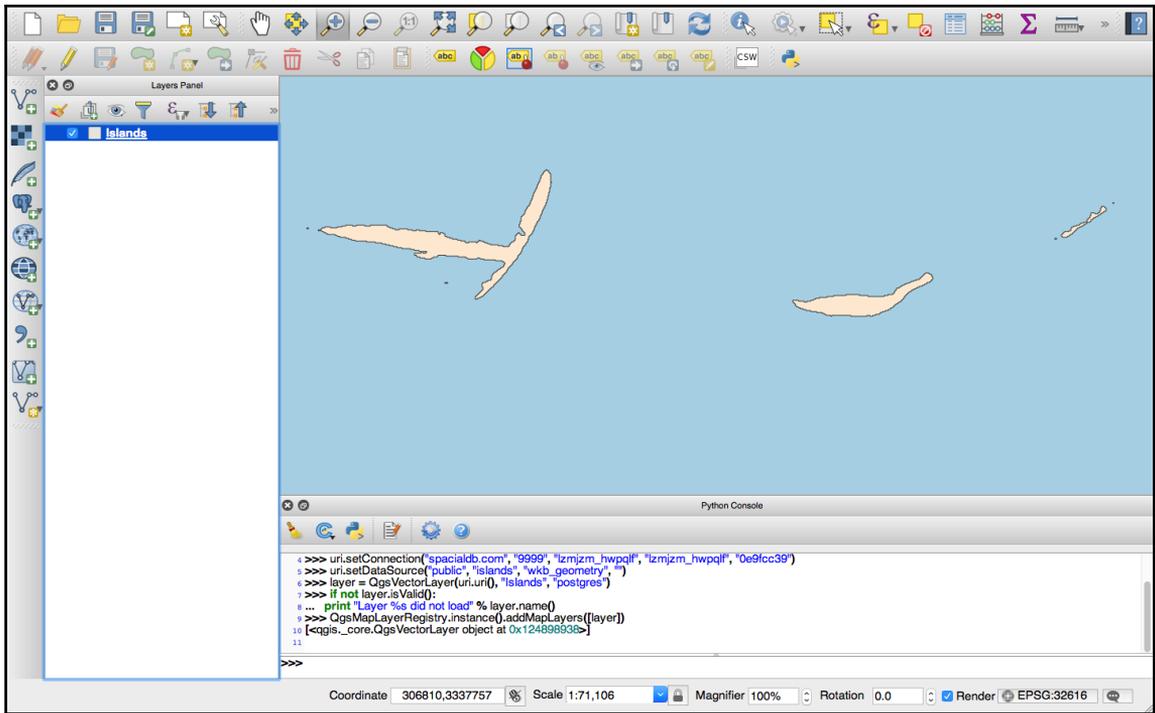
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Plugin name	<input type="text" value="My Plugin"/>
Description	<input type="text" value="A Demonstration Plugin"/>
Module name	<input type="text" value="myplugin"/>
Version number	<input type="text" value="0.1"/>
Minimum QGIS version	<input type="text" value="2.0"/>
Author/Company	<input type="text" value="Joel Lawhead"/>
Email address	<input type="text" value="jlawhead@geospatialpython.com"/>

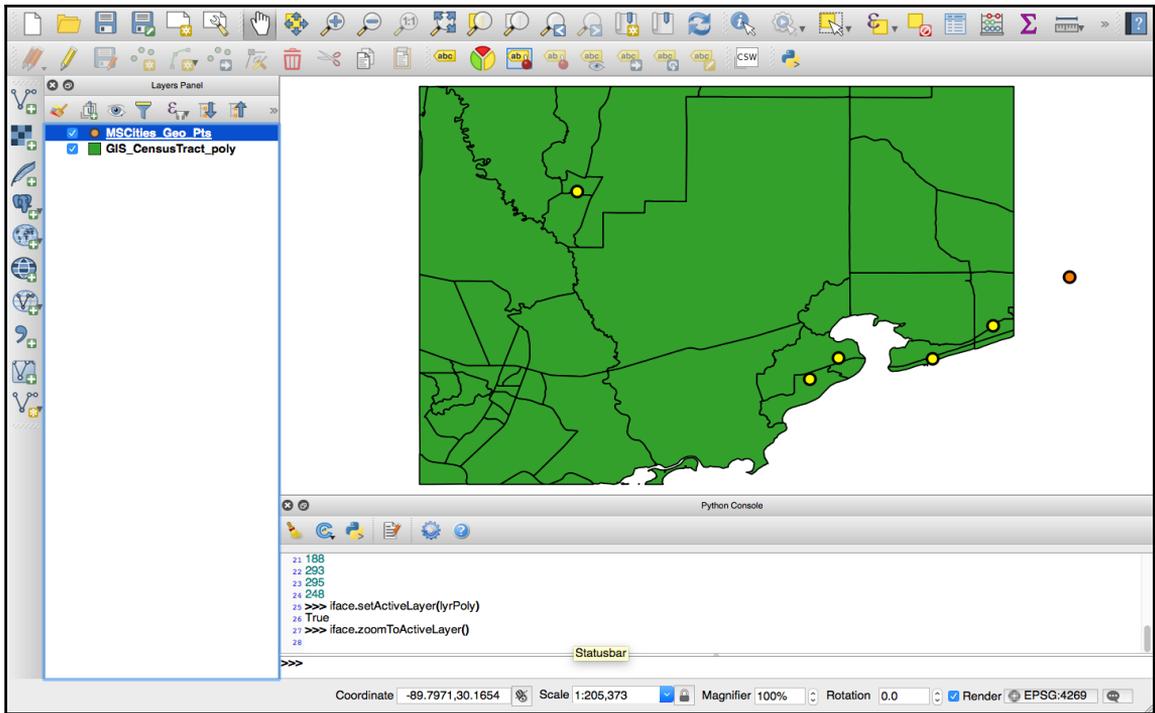


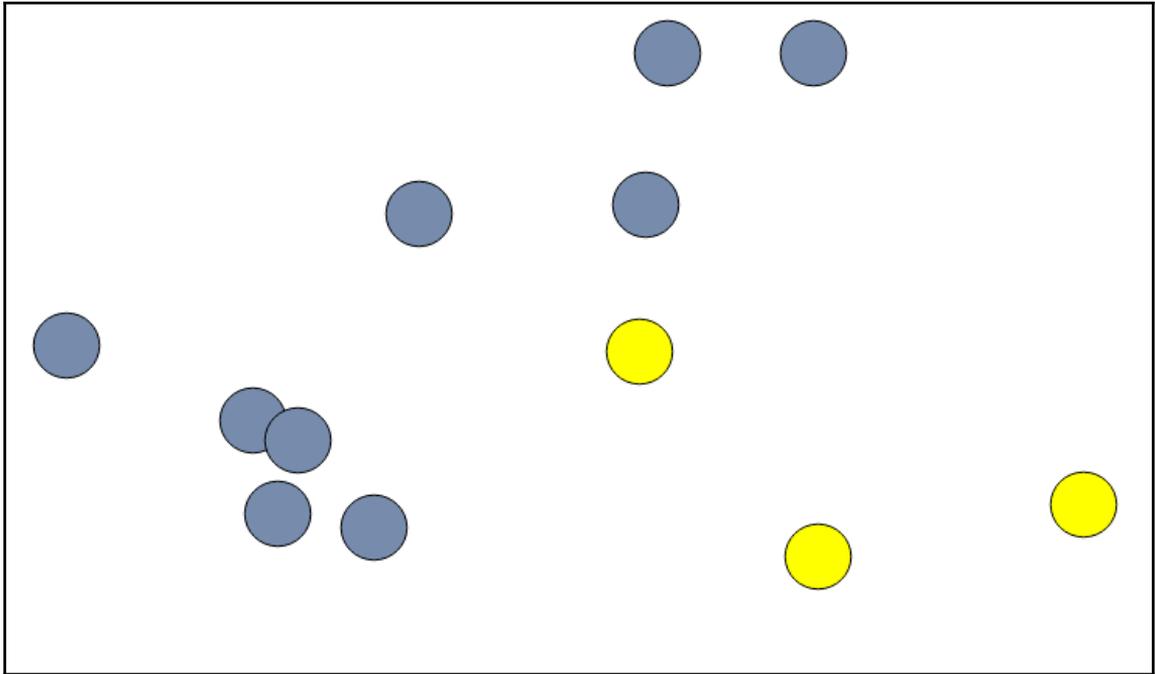


Chapter 2: Querying Vector Data





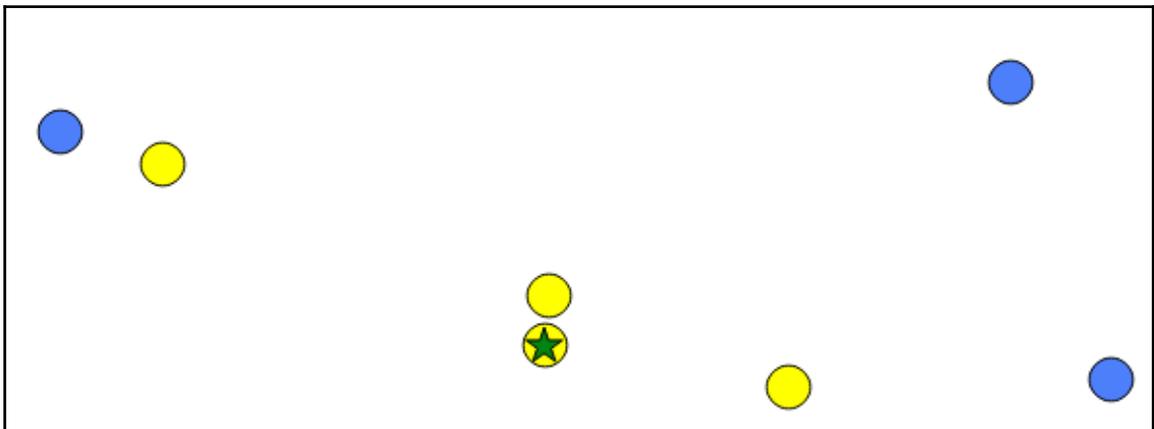


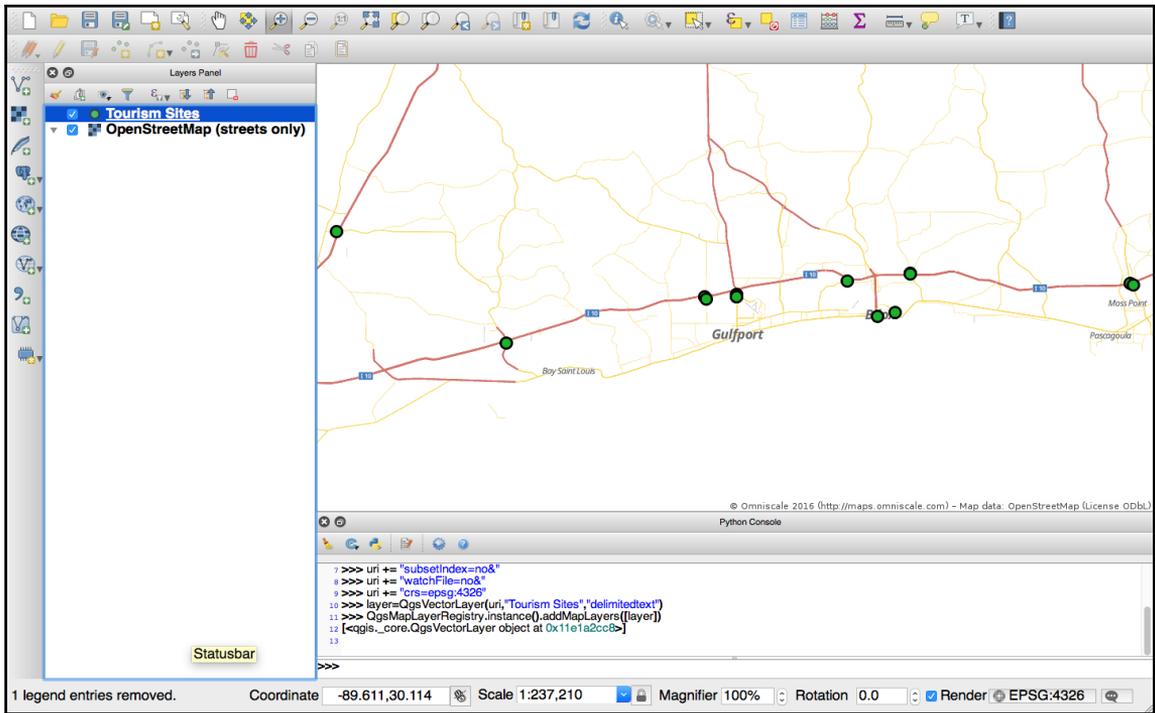


The screenshot displays the QGIS desktop environment. The main map window shows a purple circular buffer overlaid on a map. Inside the buffer, there is a cluster of green circular points representing museums. The Layers Panel on the left shows a 'Buffer' layer selected above the 'Museums' layer. The Python Console at the bottom contains the following code:

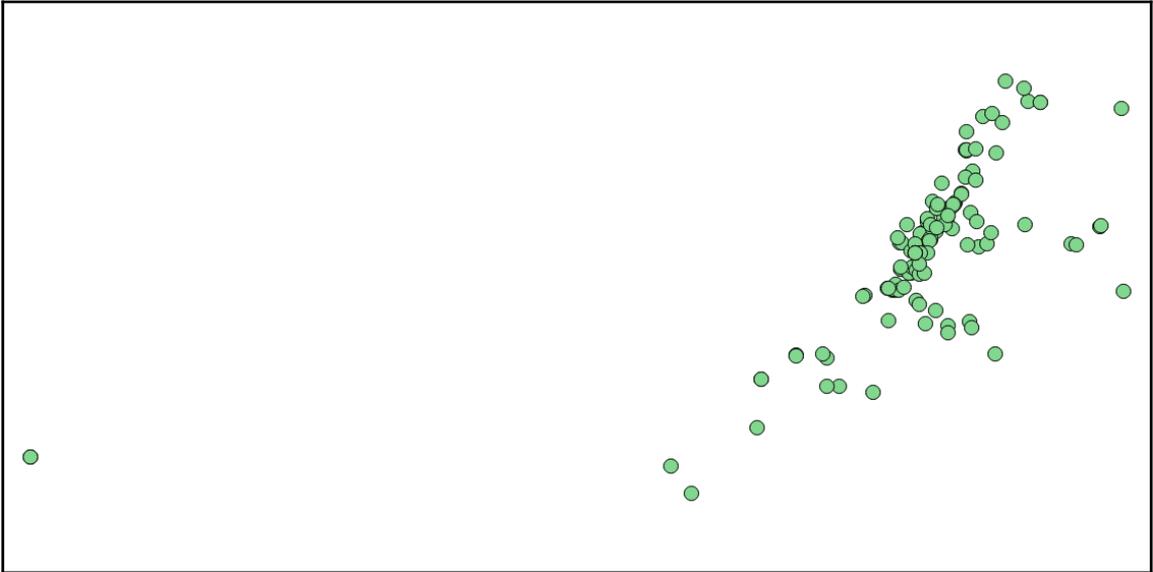
```
13 >>> b.setGeometry(buff)
14 >>> pr.addFeatures([b])
15 (True, [<qgis_core.QgsFeature object at 0x12488ddf8>])
16 >>> buffLyr.updateExtents()
17 >>> buffLyr.setLayerTransparency(70)
18 >>> QgsMapLayerRegistry.instance().addMapLayers([buffLyr])
19 [<qgis_core.QgsVectorLayer object at 0x12488db98>]
20
```

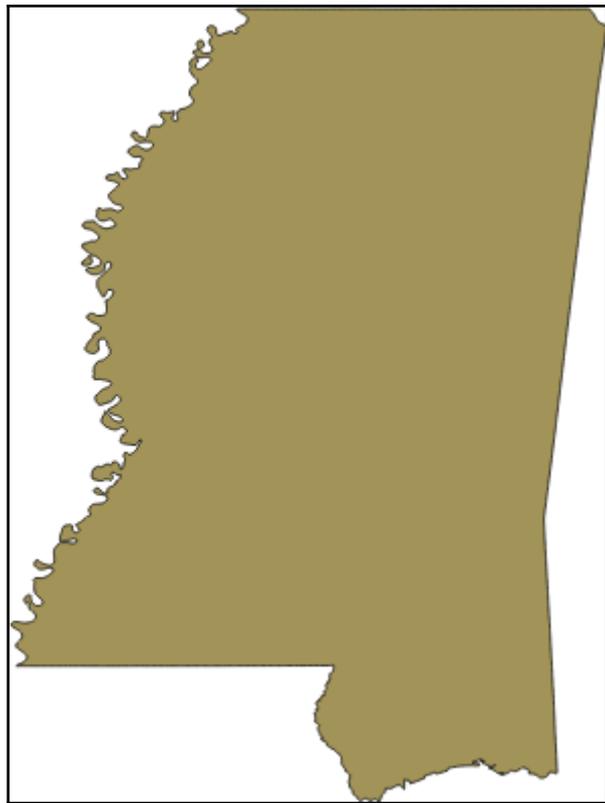
At the bottom of the interface, the status bar indicates: "1 feature(s) selected on layer Museums. Coordinate: -74.4287,40.5805 Scale: 1:223,087 Magnifier: 150% Rotation: 0.0 Render: EPSG:4326".

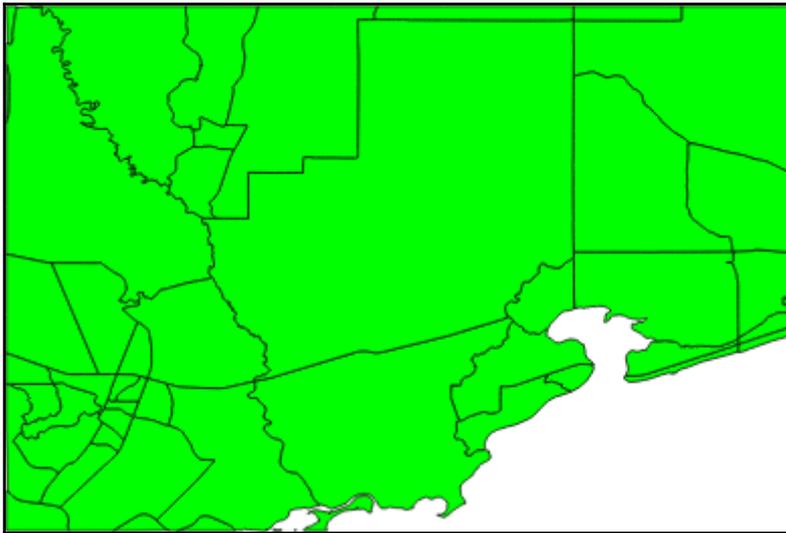
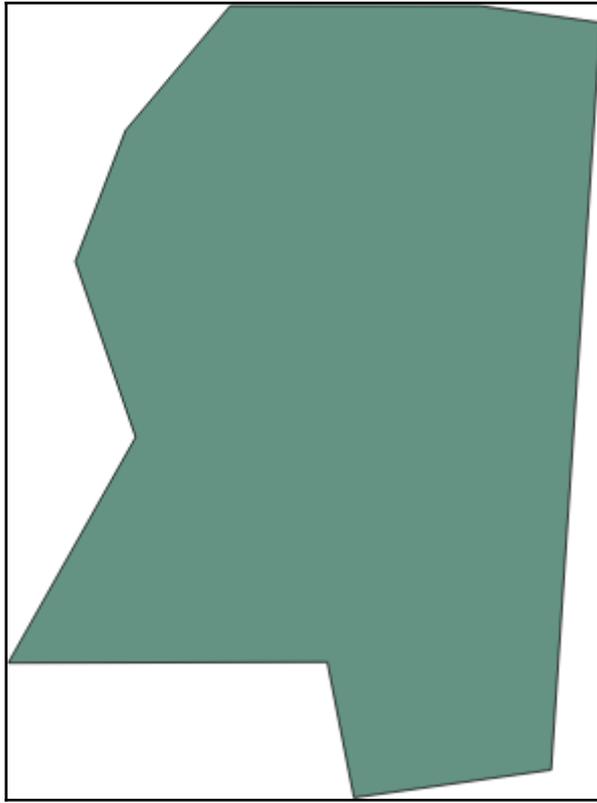


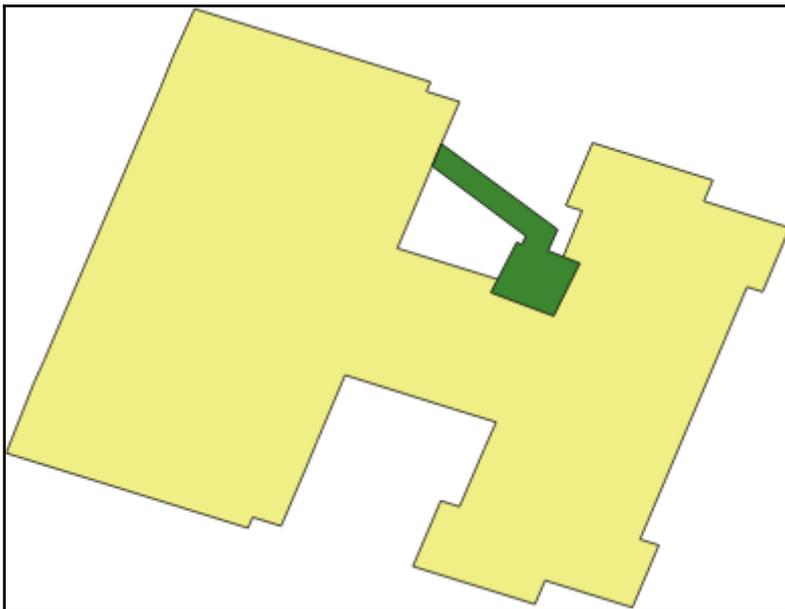
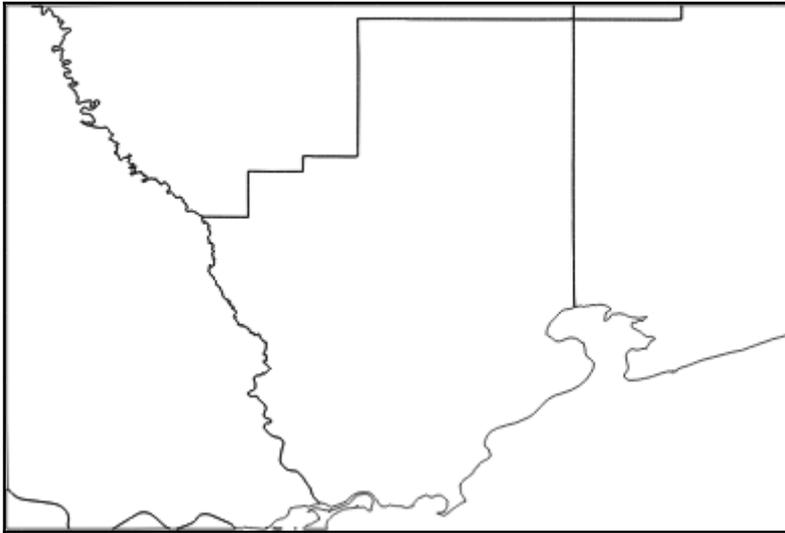


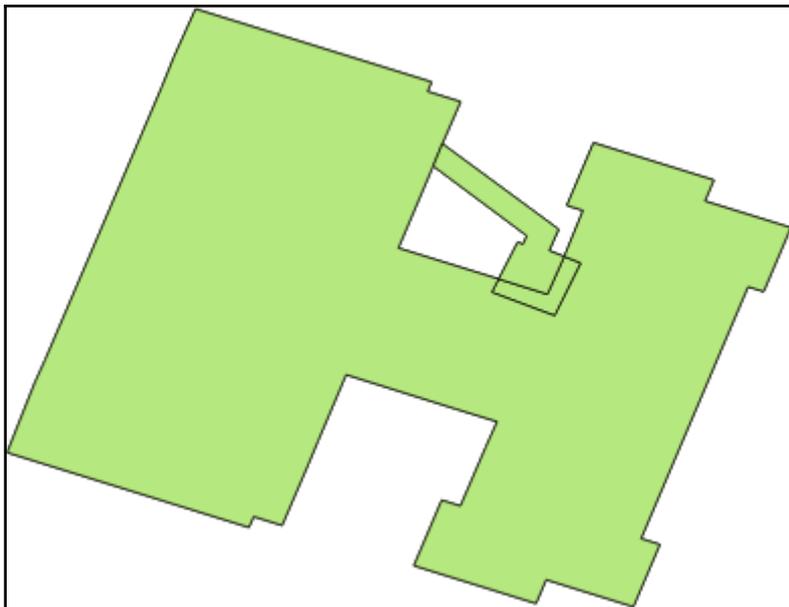
Chapter 3: Editing Vector Data

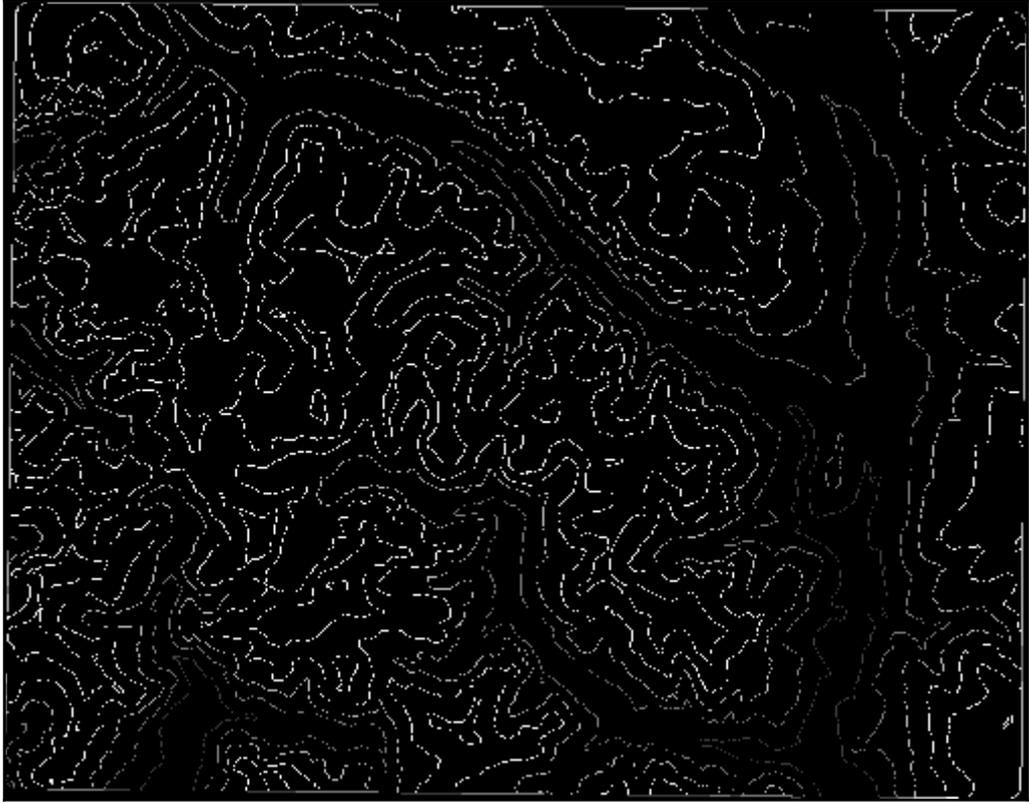




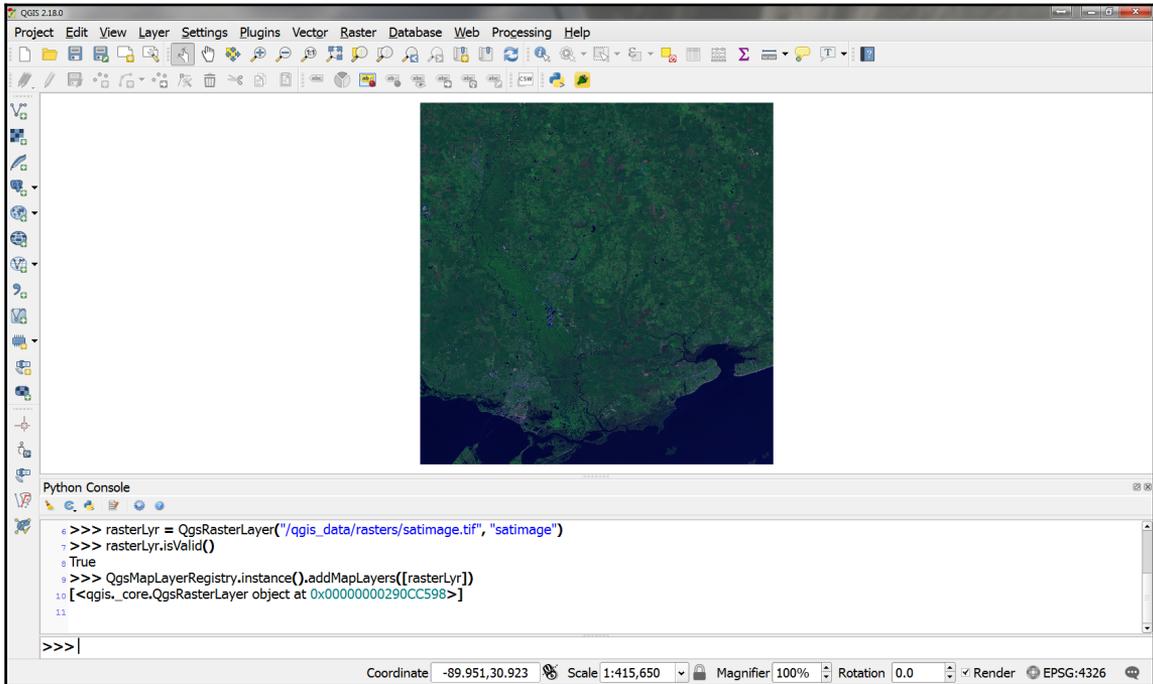


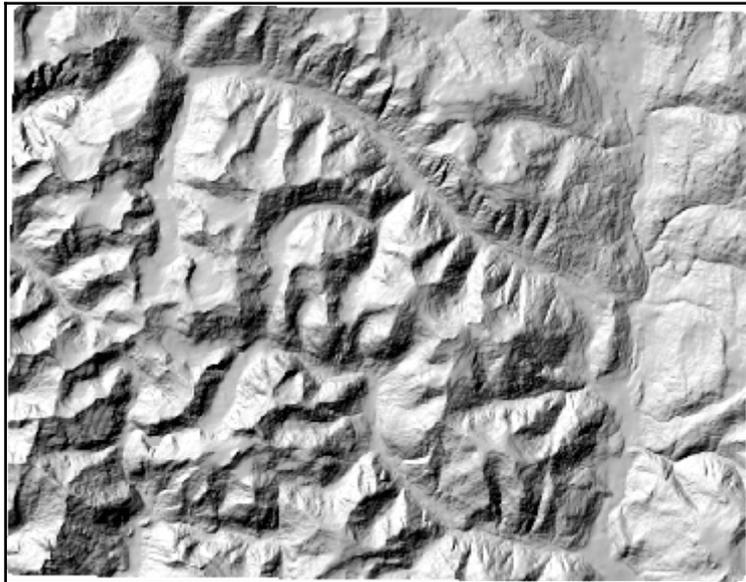


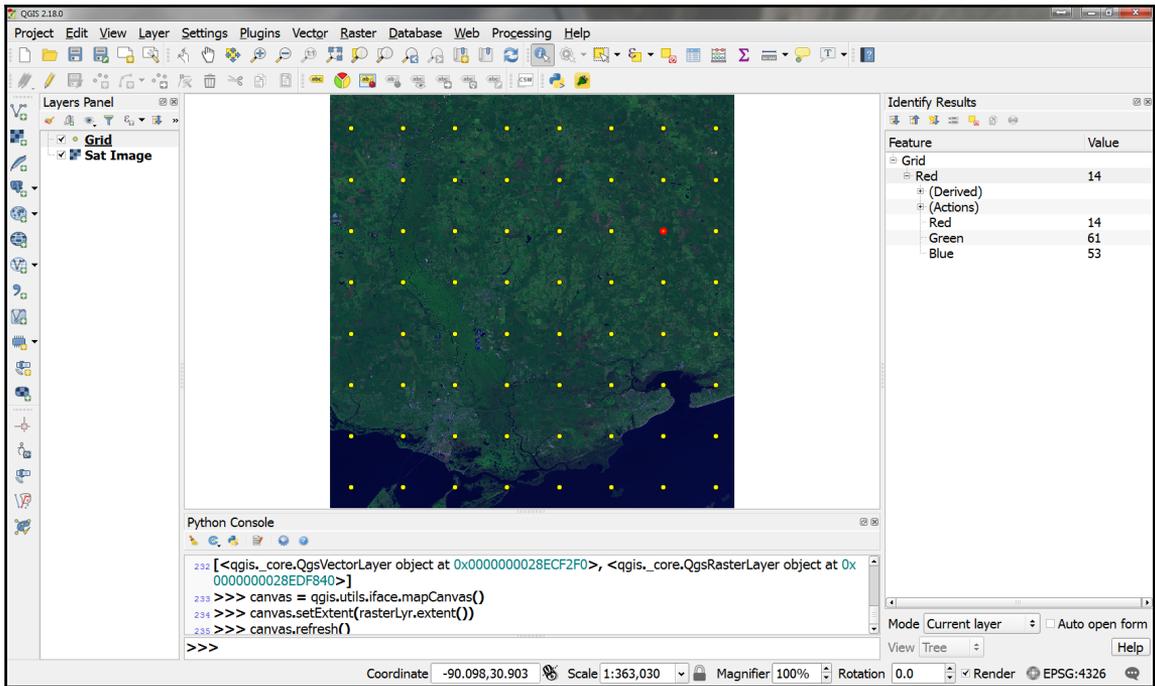


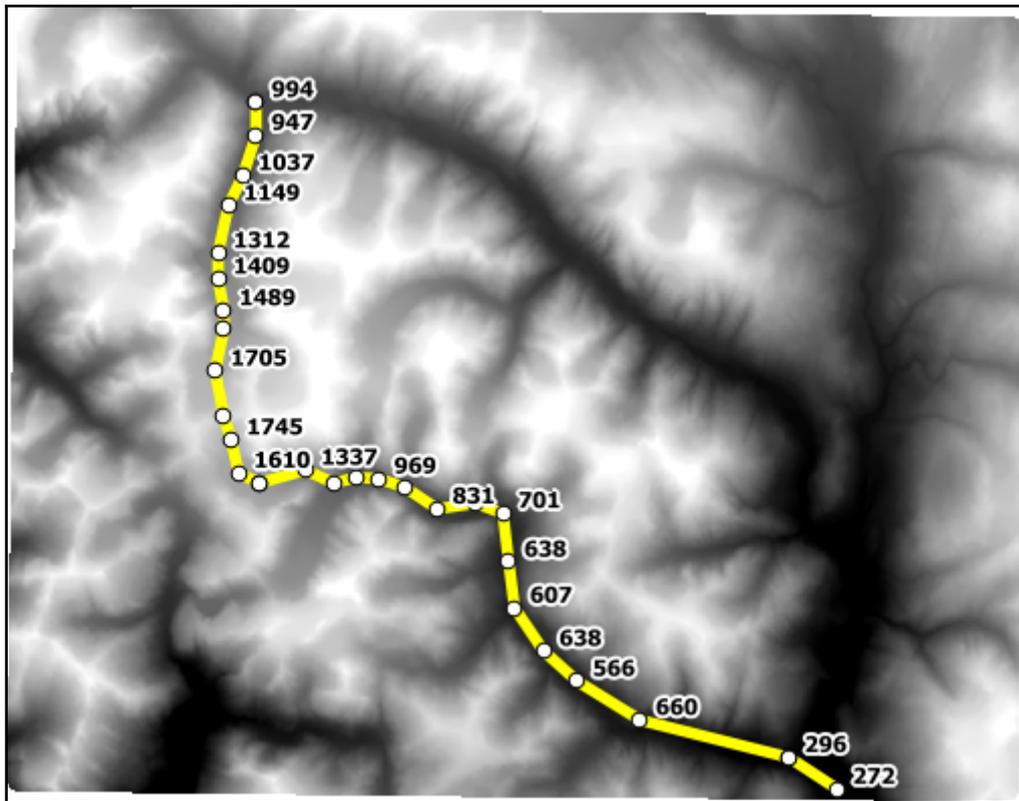


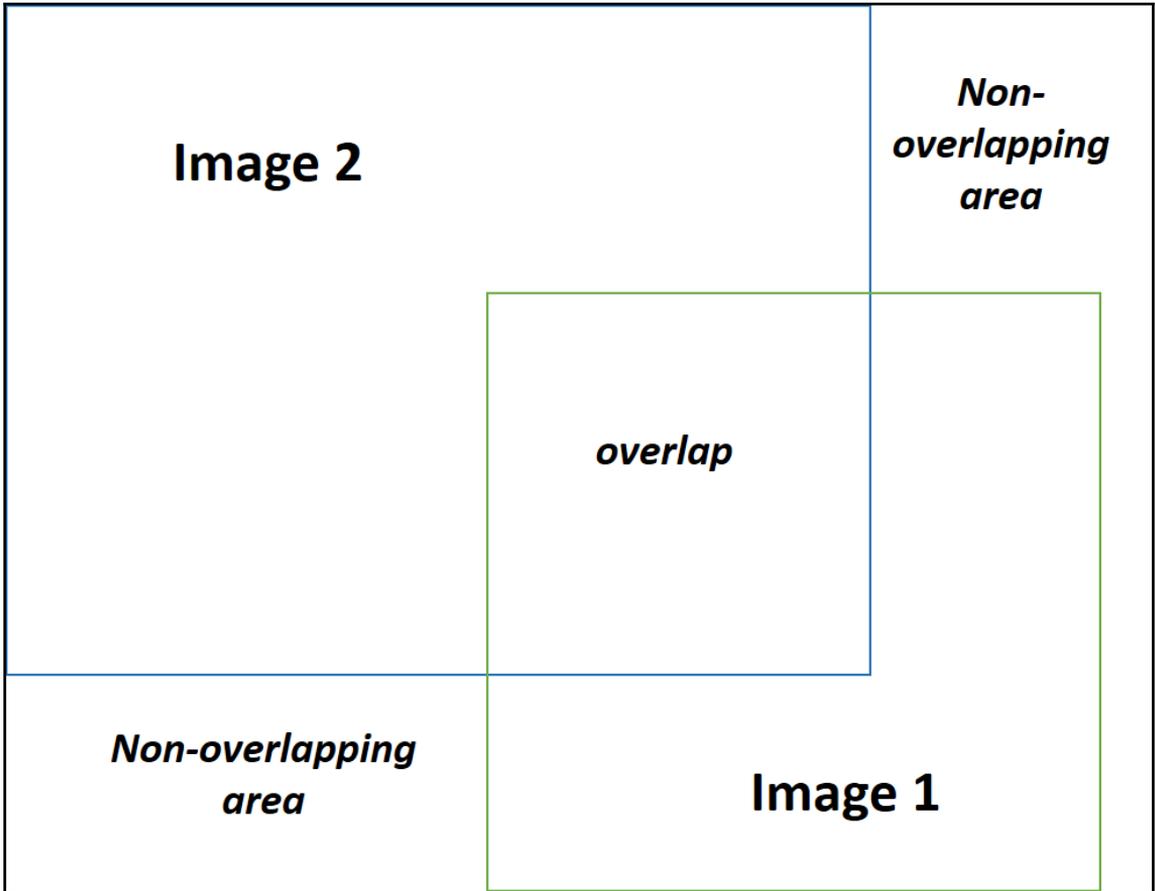
Chapter 4: Using Raster Data

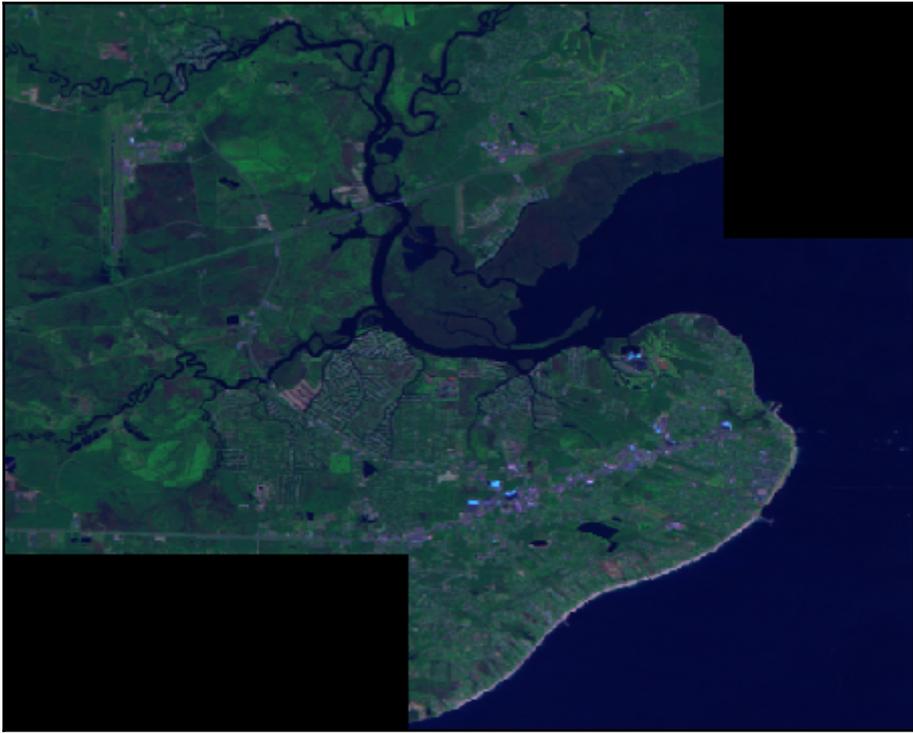


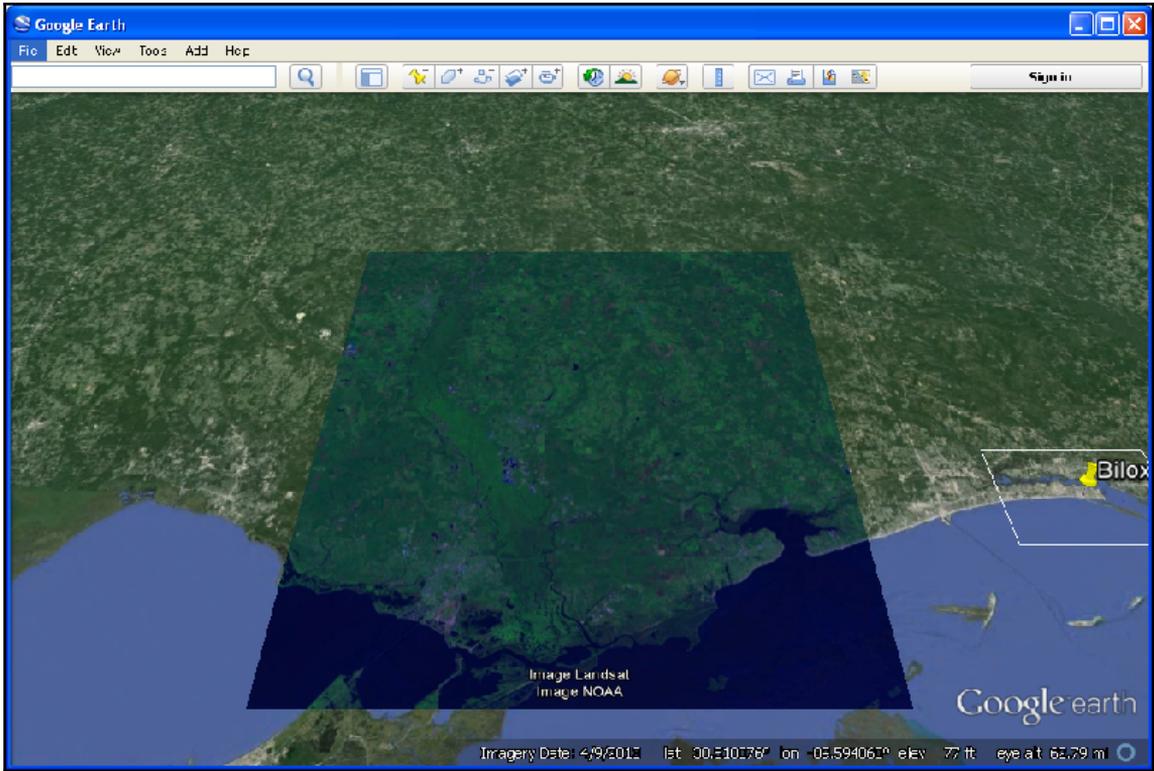


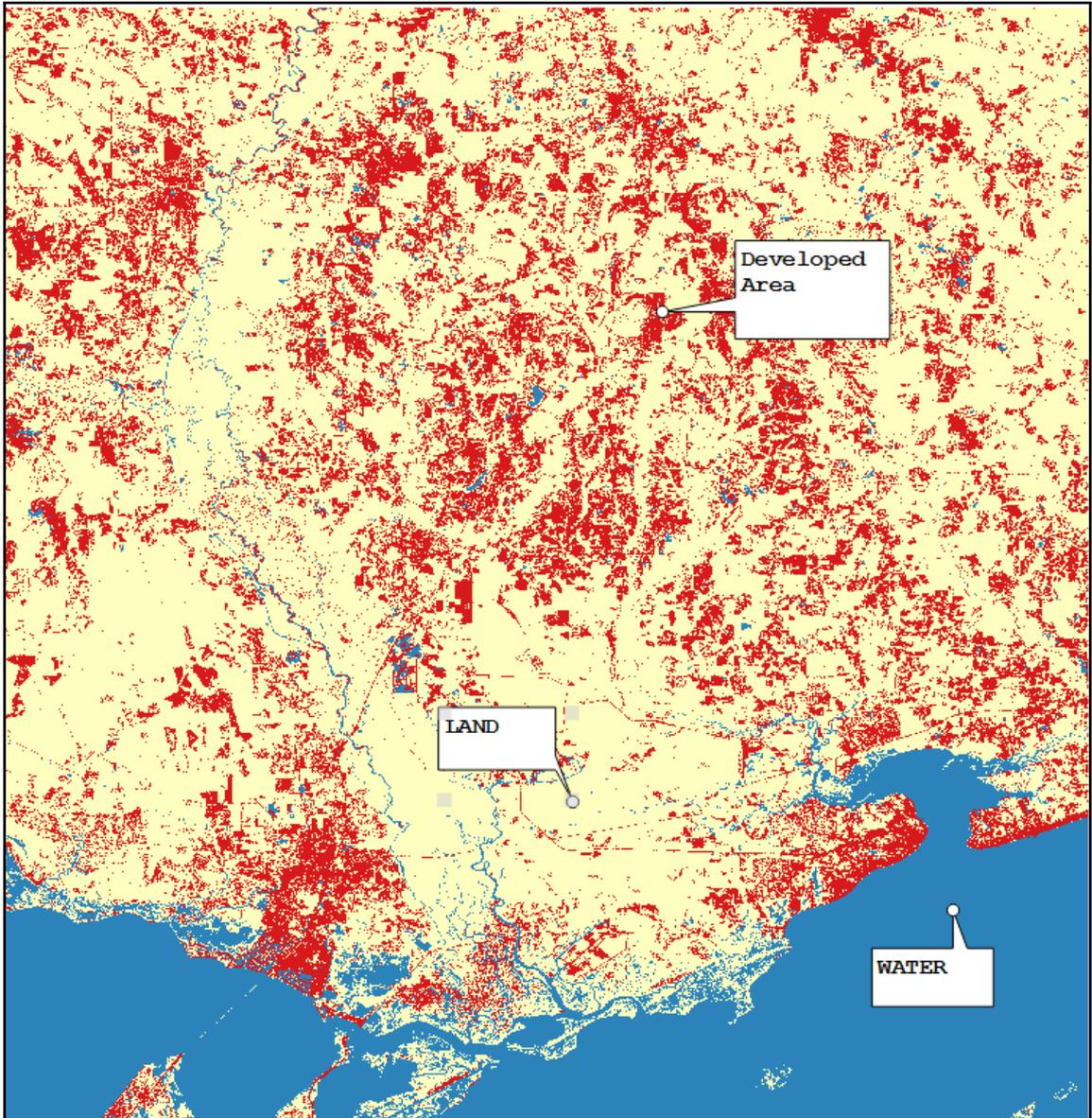


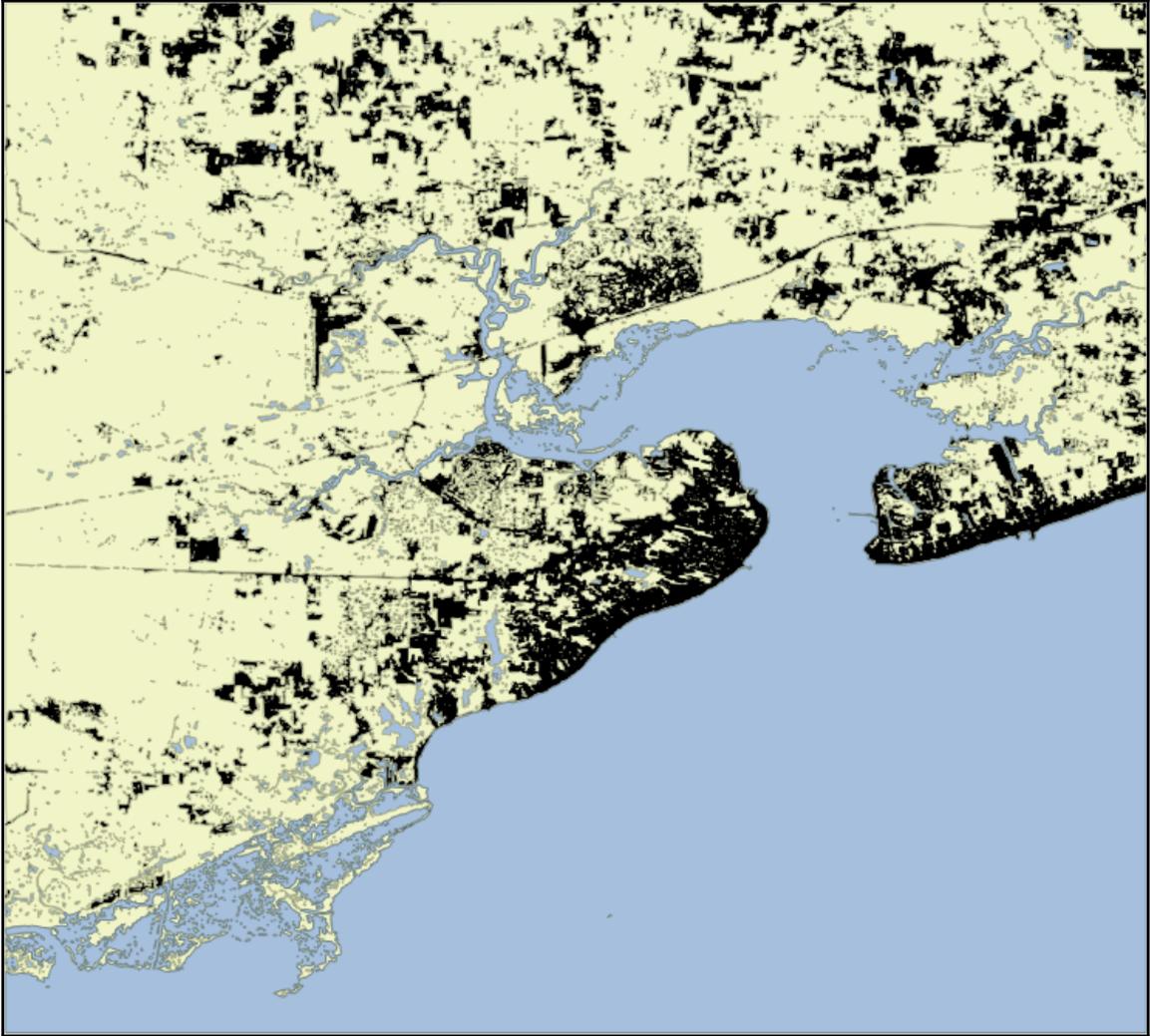


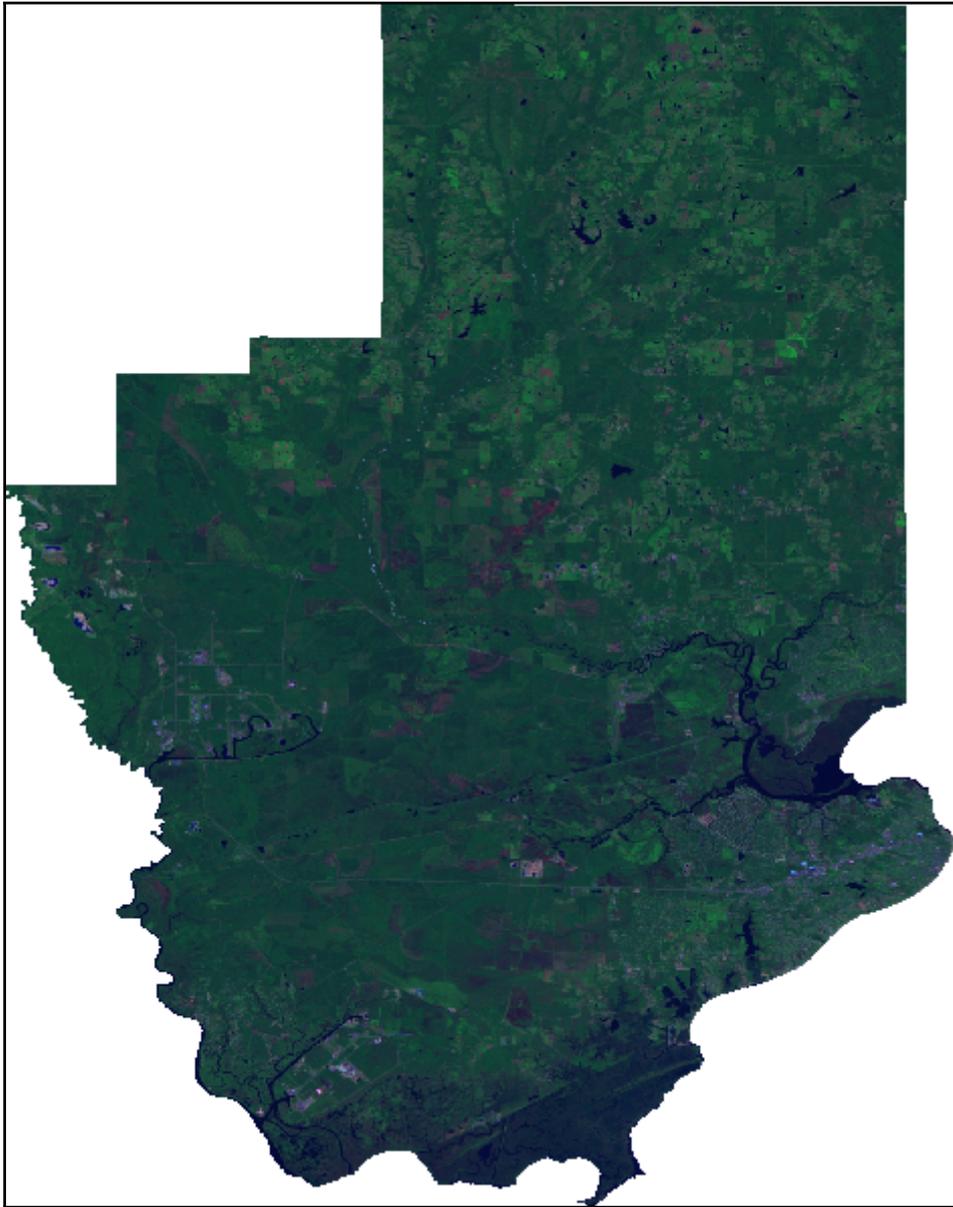




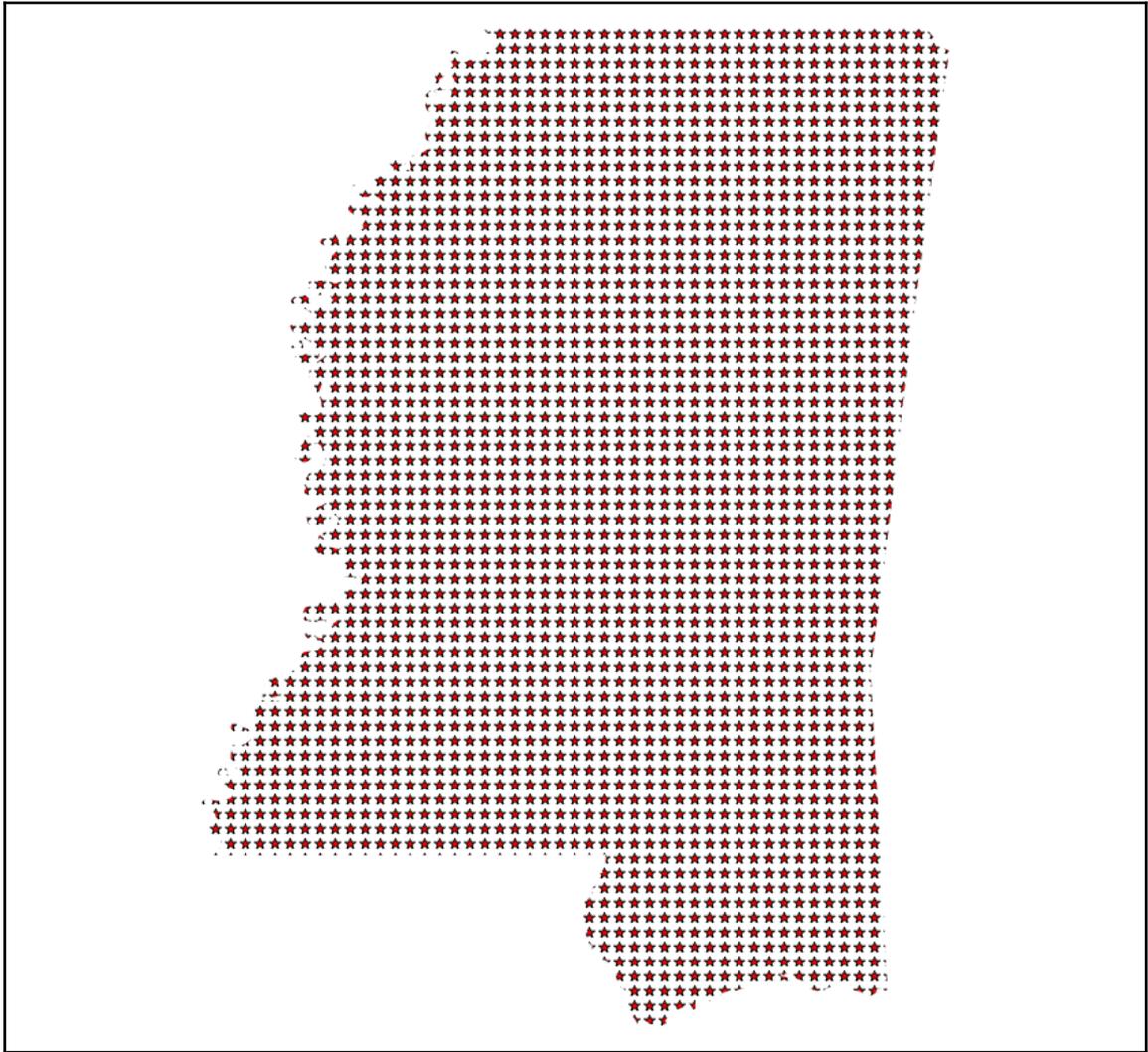


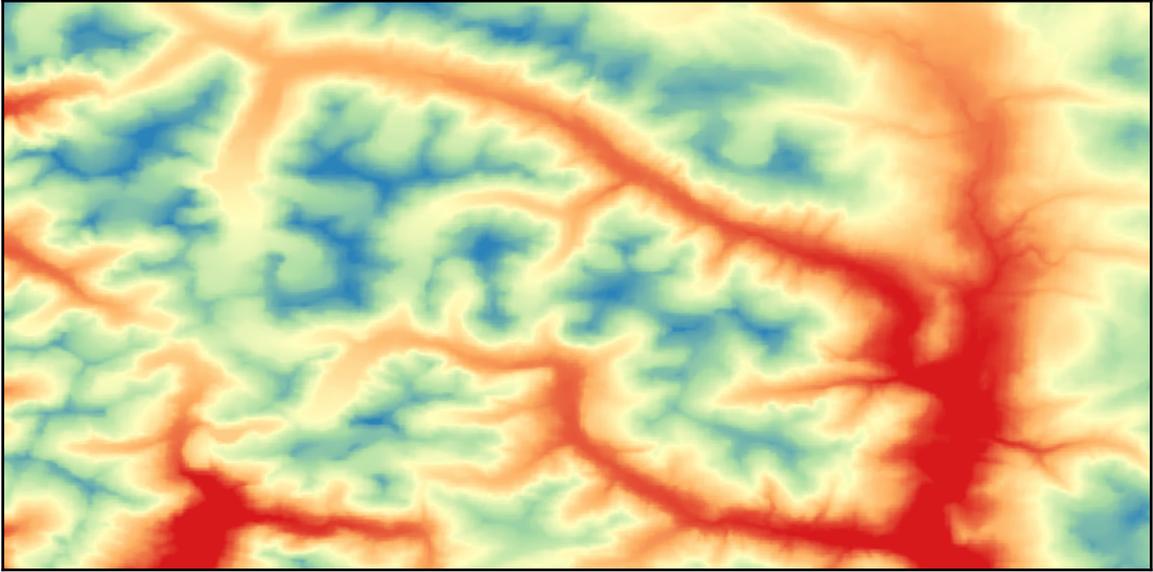


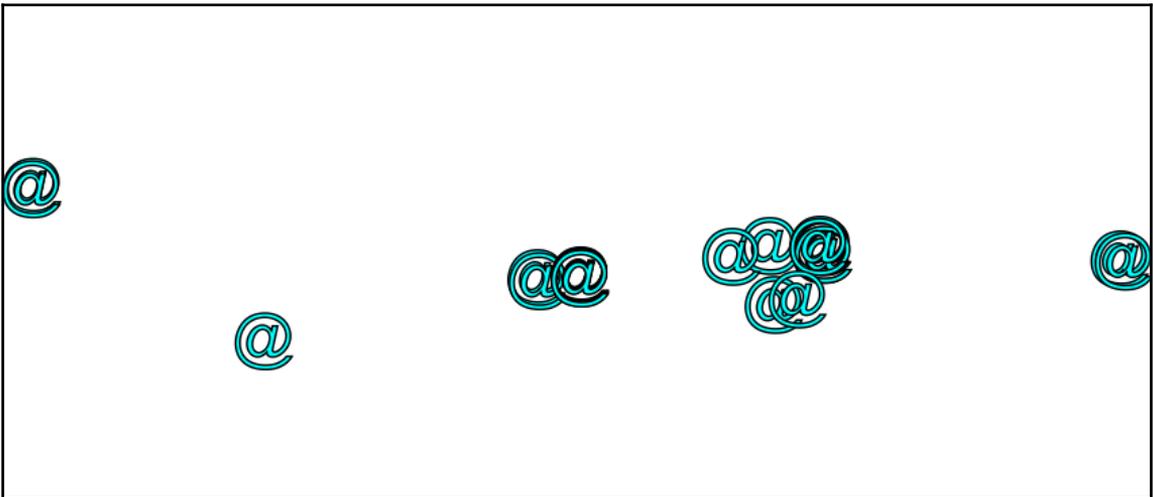
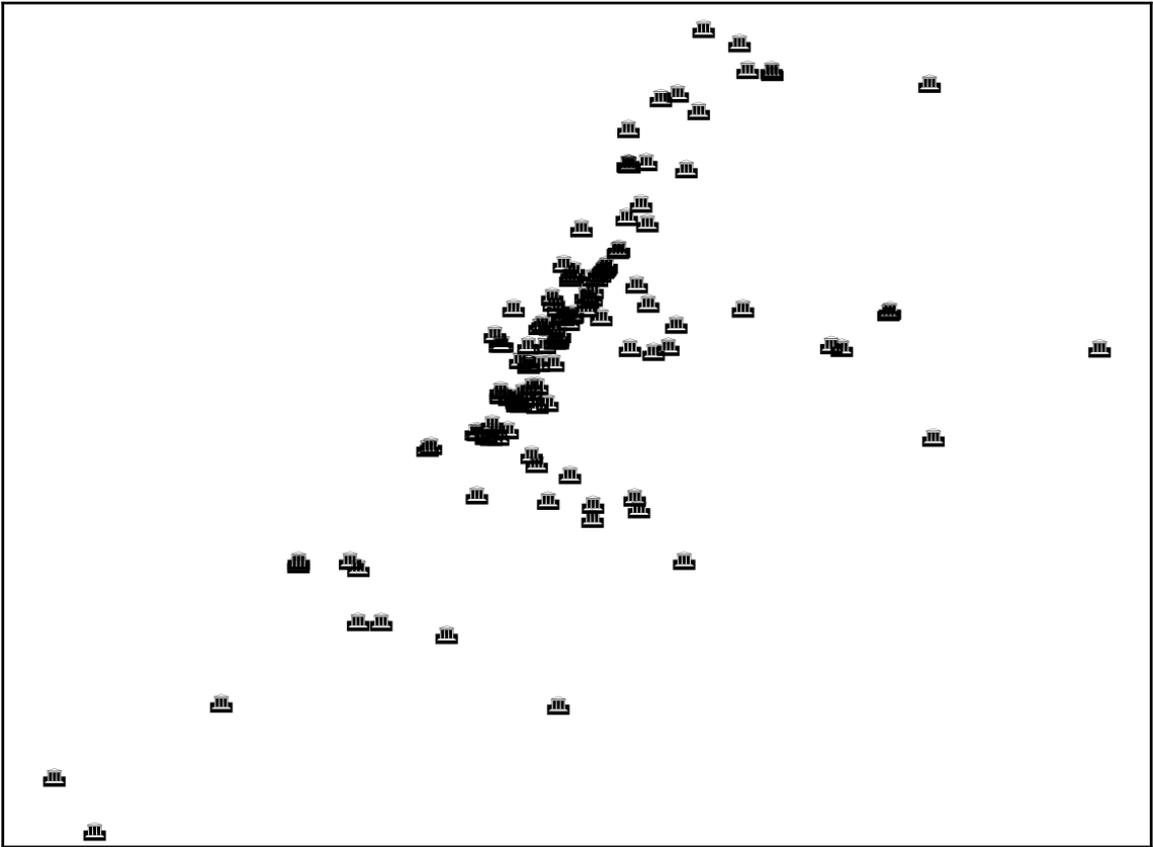


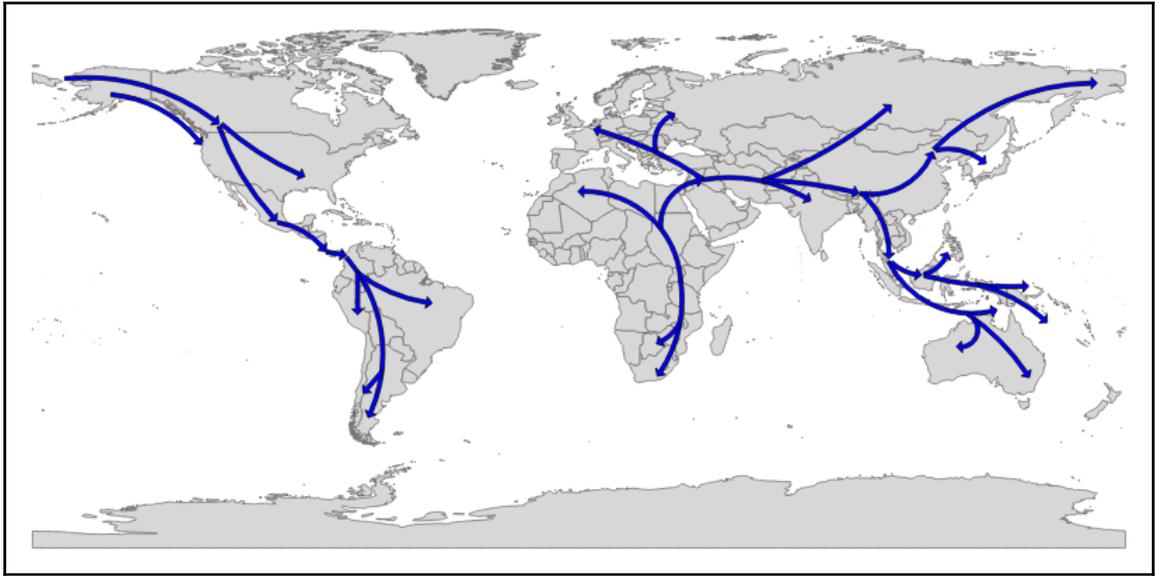


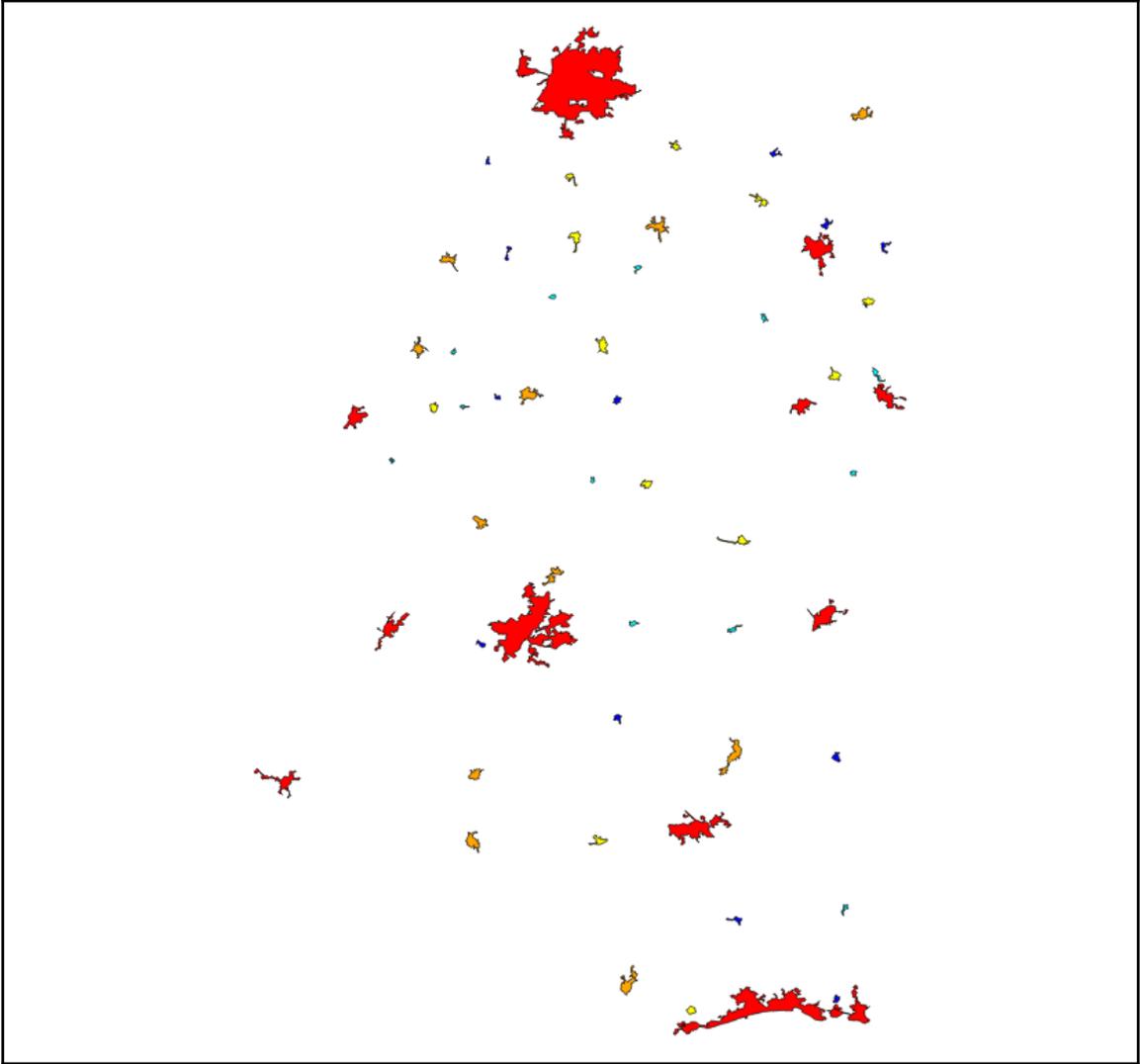
Chapter 5: Creating Dynamic Maps

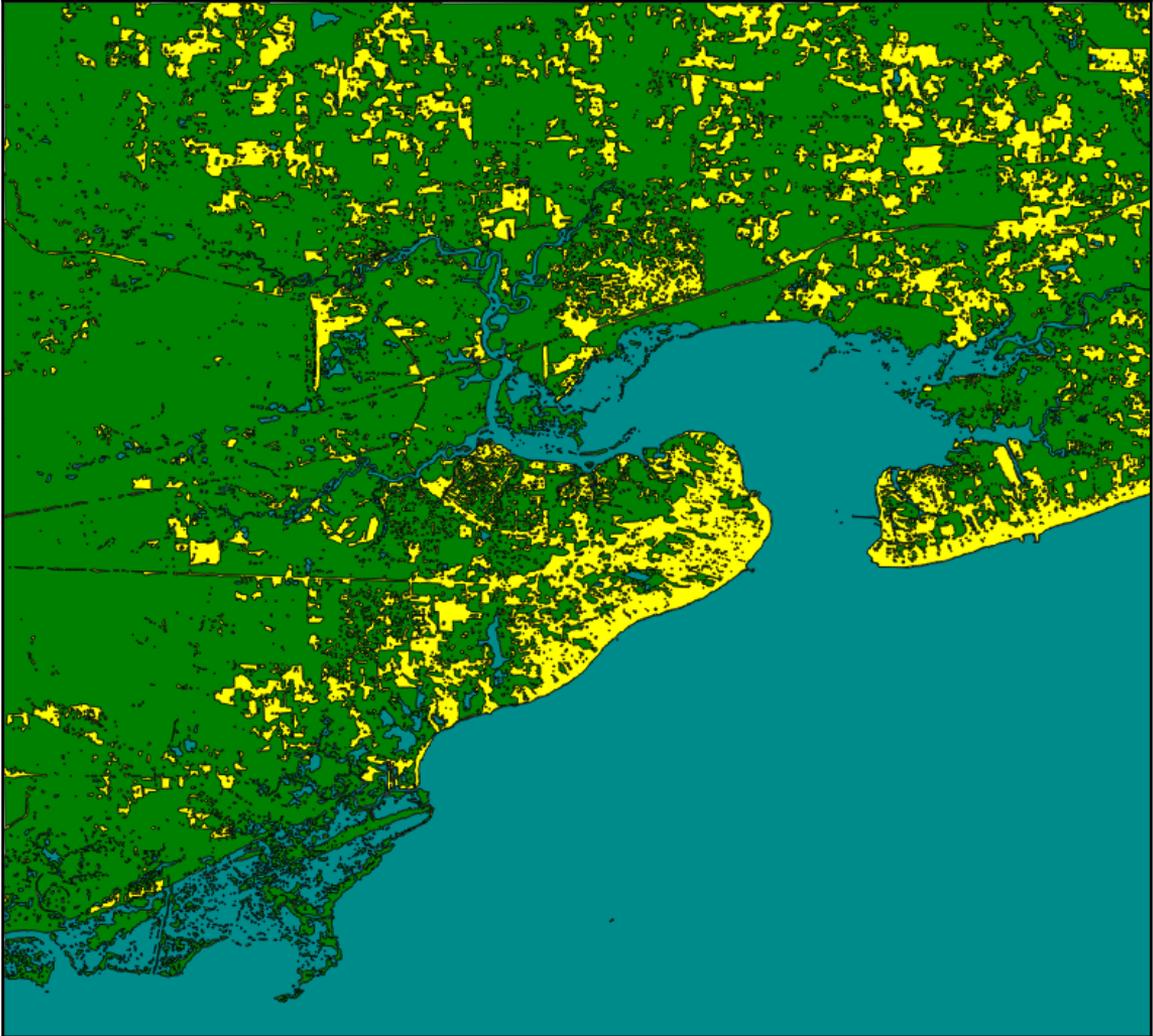




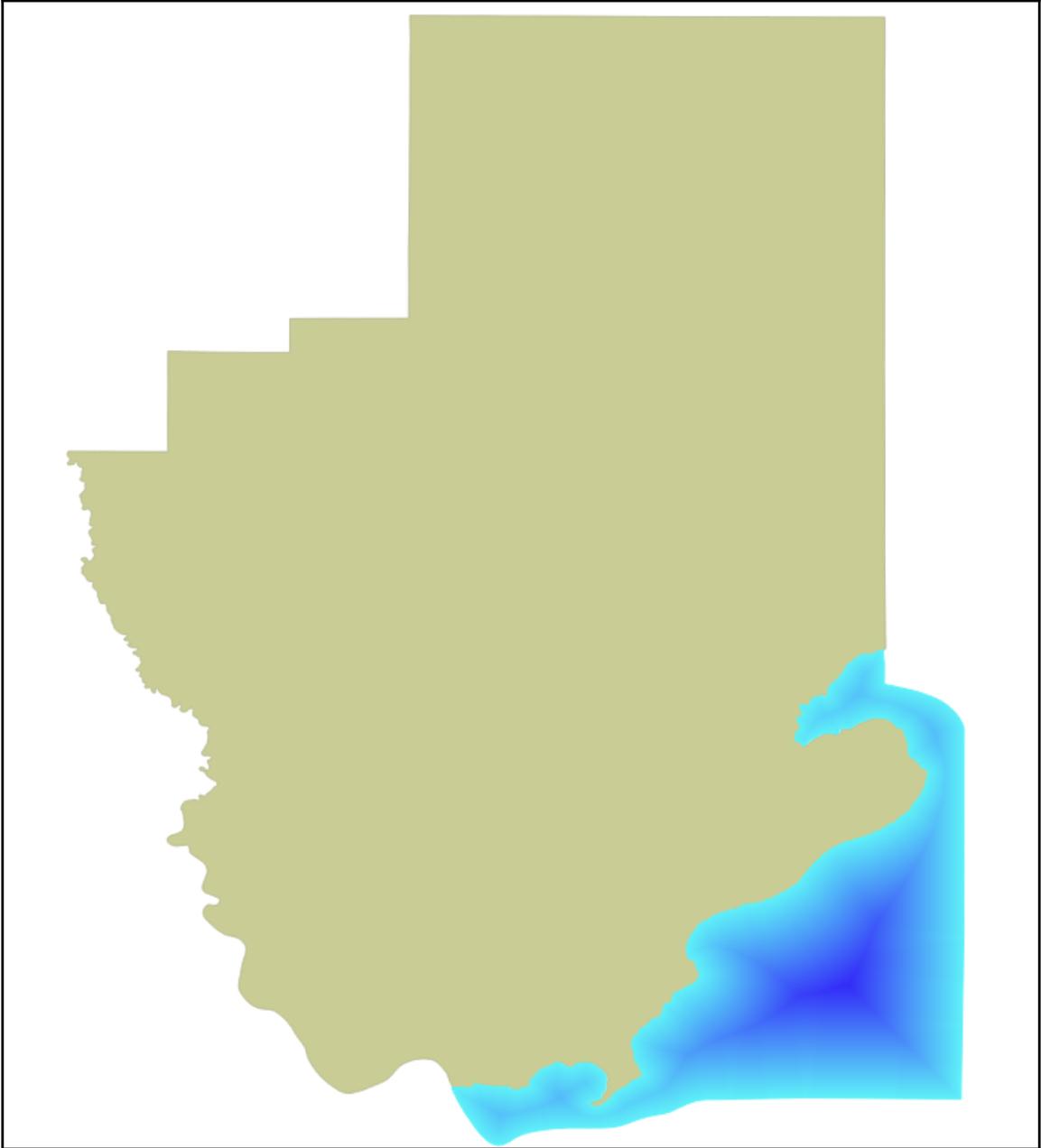


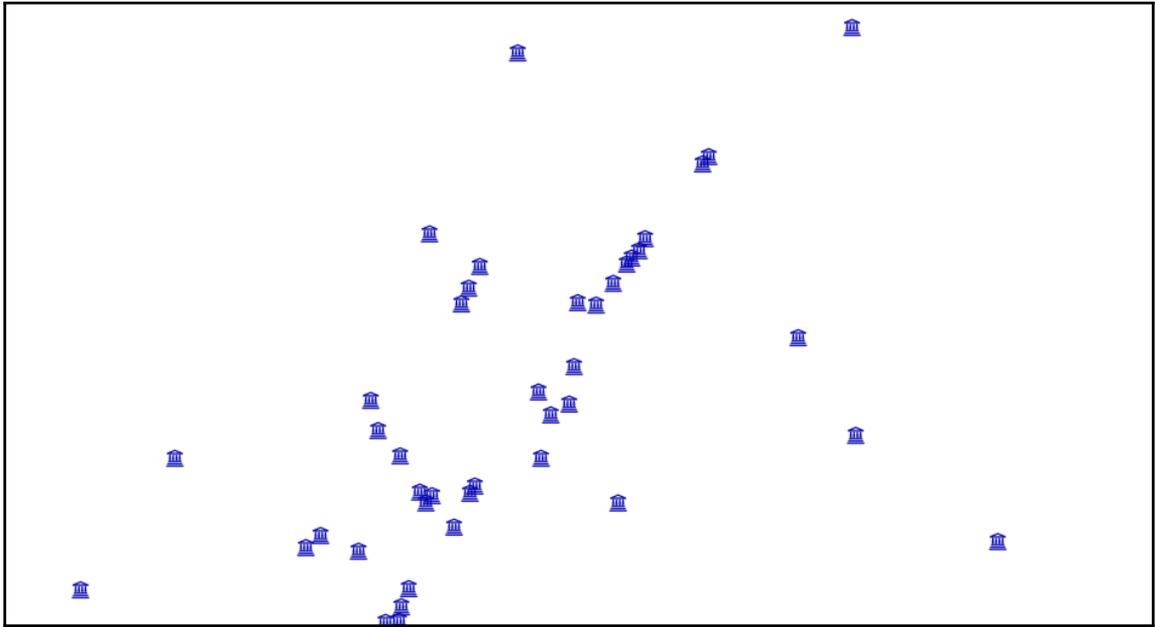


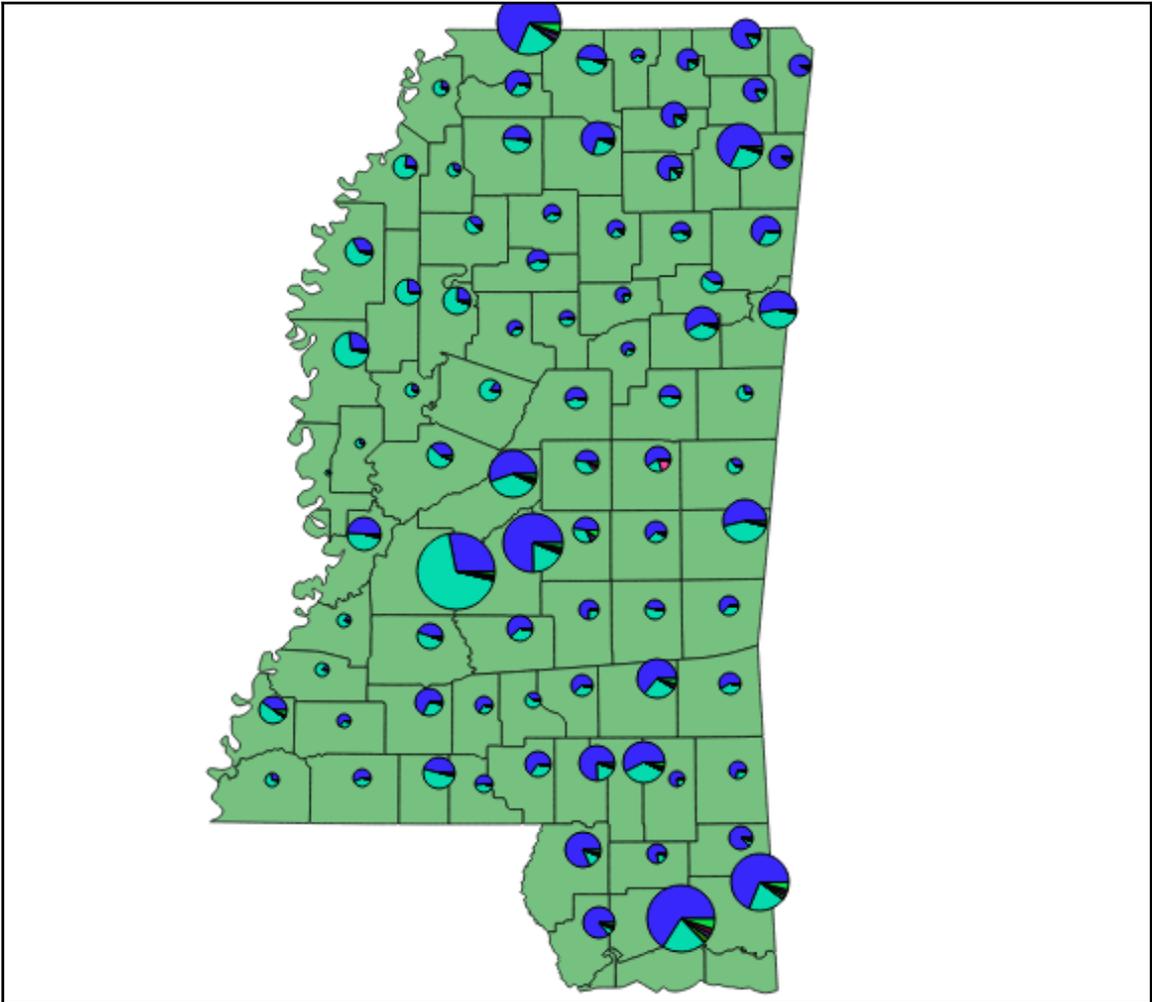


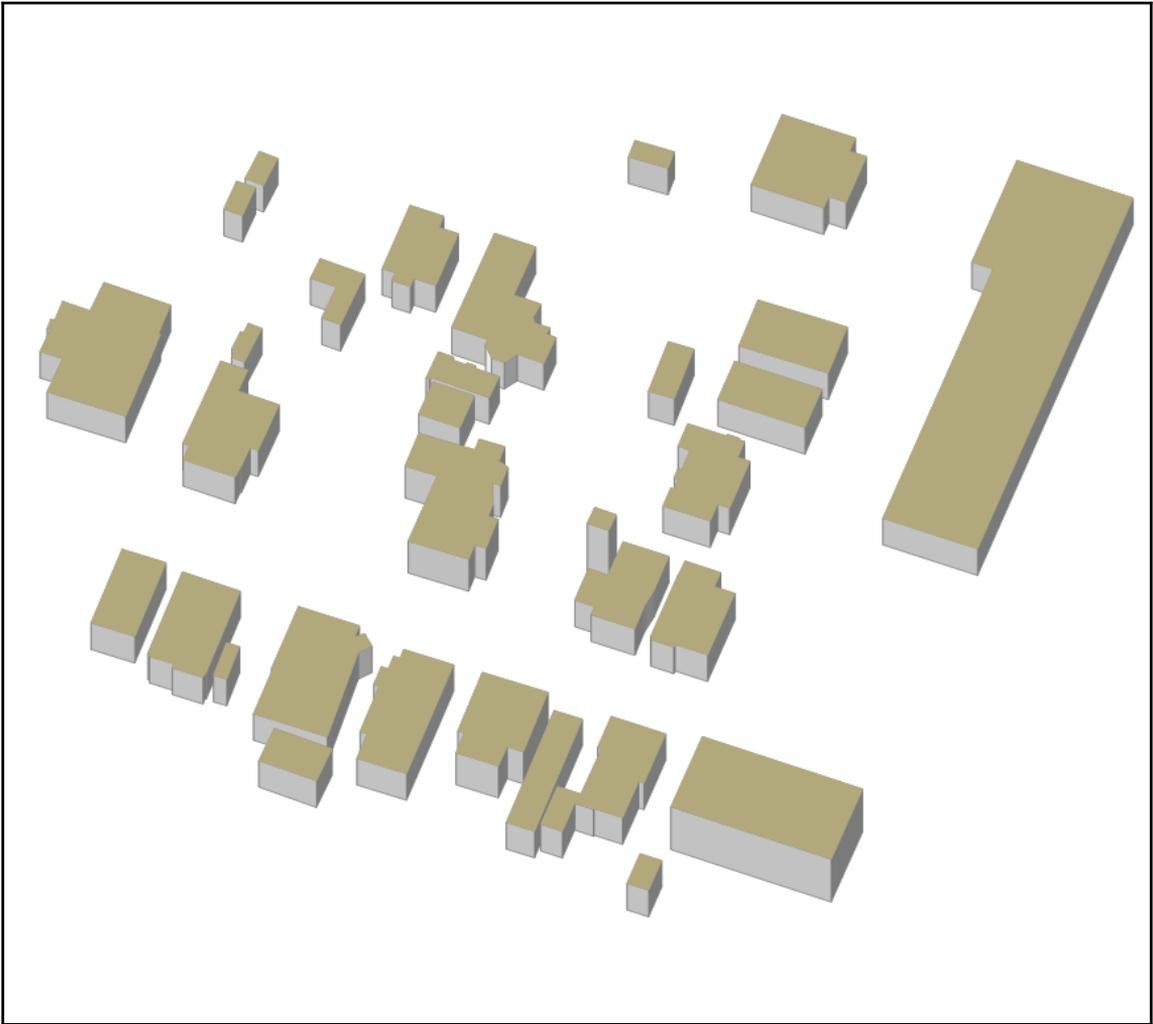


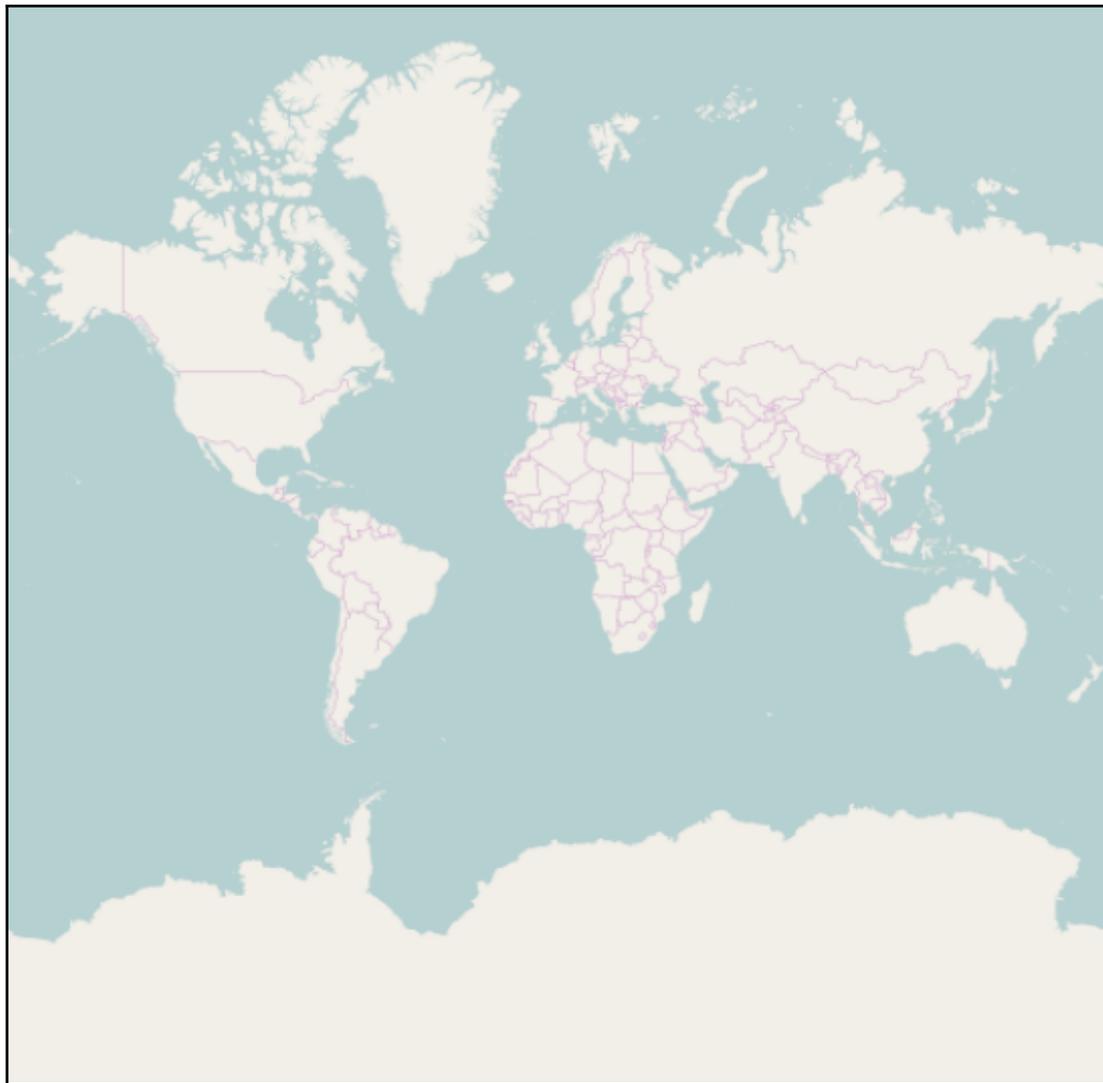








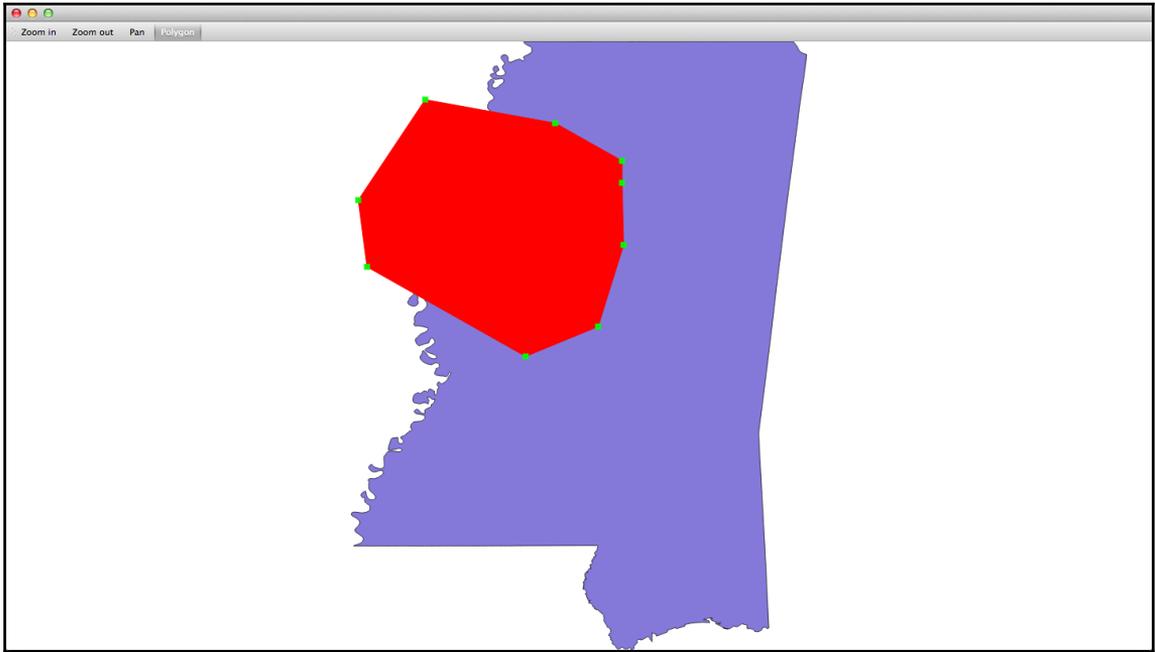


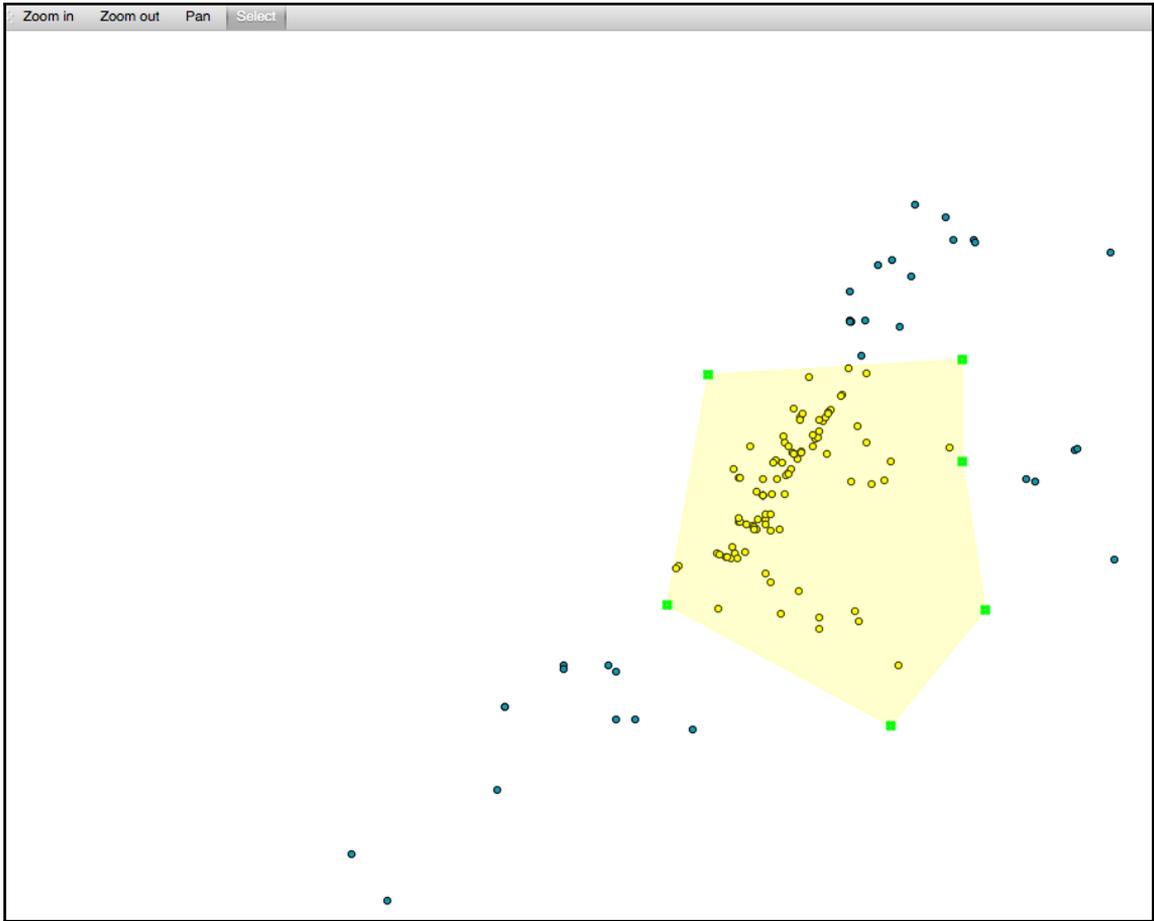




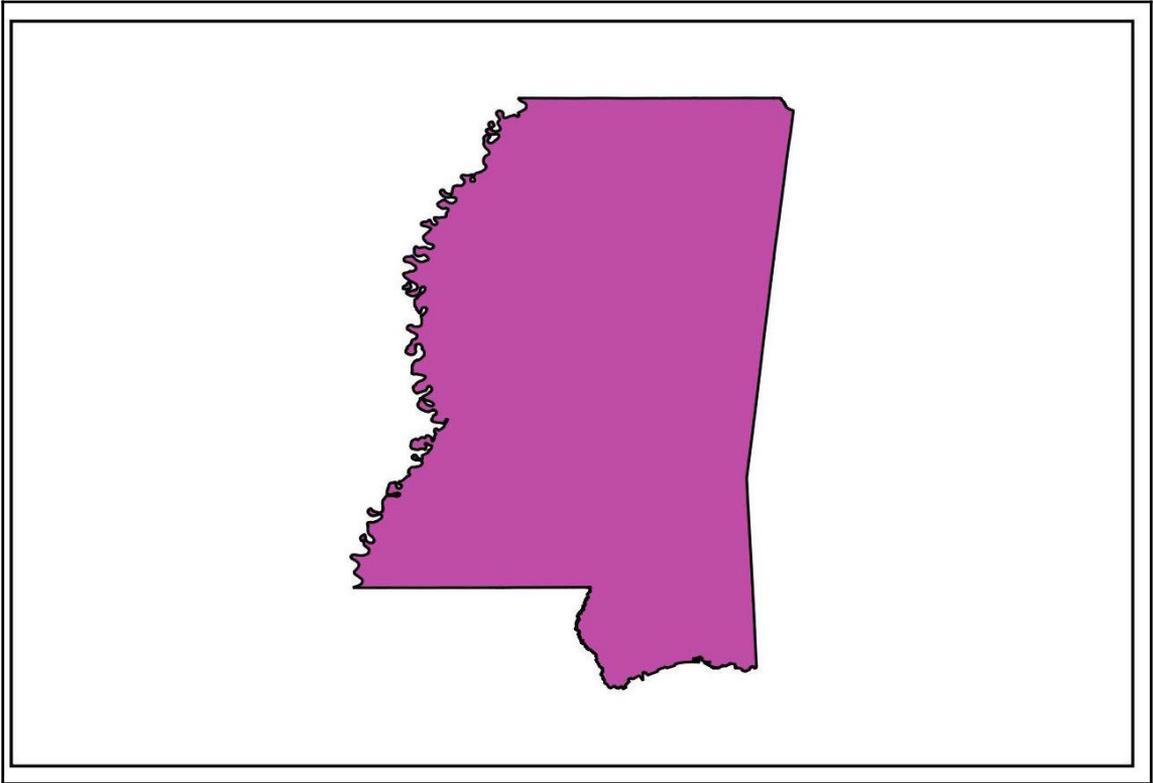


Southaven Olive Branch Walnut Corinth Farmington
 Walls Horn Lake Byhalia Falkner Kossuth Burnsville
 Hernando Snow Lake Shores Ashland Rienzi Glen Iuka
 Tunica Coldwater Holly Springs Ripley Jumpertown Tishomingo
 Senatobia Potts Camp Dumas Albany Baldwin Belmont
 Lula Crenshaw Como Abbeville Myrtle New Albany Baldwin Belmont
 Friars Point Falcon Sledge Sardis Oxford Blue Springs Marietta Golden
 Coahoma Jonestown Batesville Taylor Thaxton Ecu Sherman Mantachie
 Lyon Marks Pope Courtland Toccoola Tupelo Plantersville Tremont
 Alligator Clarksdale Crowder Water Valley Algoma Shannon Nettleton
 Duncan Tutwiler Charleston Oakland New Houlika Okolona Amory Smithville
 Gunnison Shelby Webb Tillatoba Bruce Pittsboro Houston Hatley
 Rosedale Pace Merigold Glendora Big Creek Vardaman Aberdeen Gattman
 Beulah Drew Grenada Slate Springs Mantee Woodland Caledonia
 Benoit Boyle Doddsville Duck Hill Walthall Maben West Point
 Shaw Sunflower North Carrollton Eupora Mathiston Starkville Columbus
 Metcalfe Moorhead Itta Bena Winona Kilmichael Sturgis Artesia
 Greenville Leland Indianola Sidon Vaiden French Camp Weir Ackerman Crawford
 Arcola Isola Inverness Cruger French Camp Weir Ackerman Brooksville
 Hollandale Belzoni Tchula West Ethel McCool Louisville Macon
 Silver City Lexington Durant Ethel McCool Louisville Macon
 Anguilla Louise Eden Goodman Sallis Kosciusko Noxapater Shuqualak
 Mayersville Rolling Fork Yazoo City Pickens Carthage Philadelphia Scooba
 Cary Satartia Bentonia Canton Lena Union De Kalb
 Flora Madison Sebastopol Decatur Marion
 Vicksburg Edwards Bolton Clinton Flowood Forest Lake Chunky Meridian
 Raymond Pearl Brandon Polkville Morton Newton Hickory Enterprise Stonewall
 Learned Byram Florence Puckett Louin Montrose Pachuta
 Port Gibson Crystal Springs D'Lo Raleigh Bay Springs Quitman
 Hazlehurst Georgetown Mendenhall Taylorsville Heidelberg Shubuta
 Fayette Wesson Beauregard Magee Mize Soso Sandersville Waynesboro
 Mount Olive Laurel
 Natchez Brookhaven Silver Creek Prentiss Collins Ellisville
 Roxie Bude Monticello Seminary Sumrall State Line
 Meadville Bassfield
 Crosby McComb Summit Columbia Hattiesburg Richton
 Gloster Liberty Magnolia Tylertown Purvis New Augusta Leakesville
 Woodville Centerville Osyka Lumberton McLain Lucedale
 Poplarville Wiggins
 Picayune
 Biloxi D'Iberville Moss Point
 Long Beach Gulfport Pascagoula
 Waveland Pass Christian



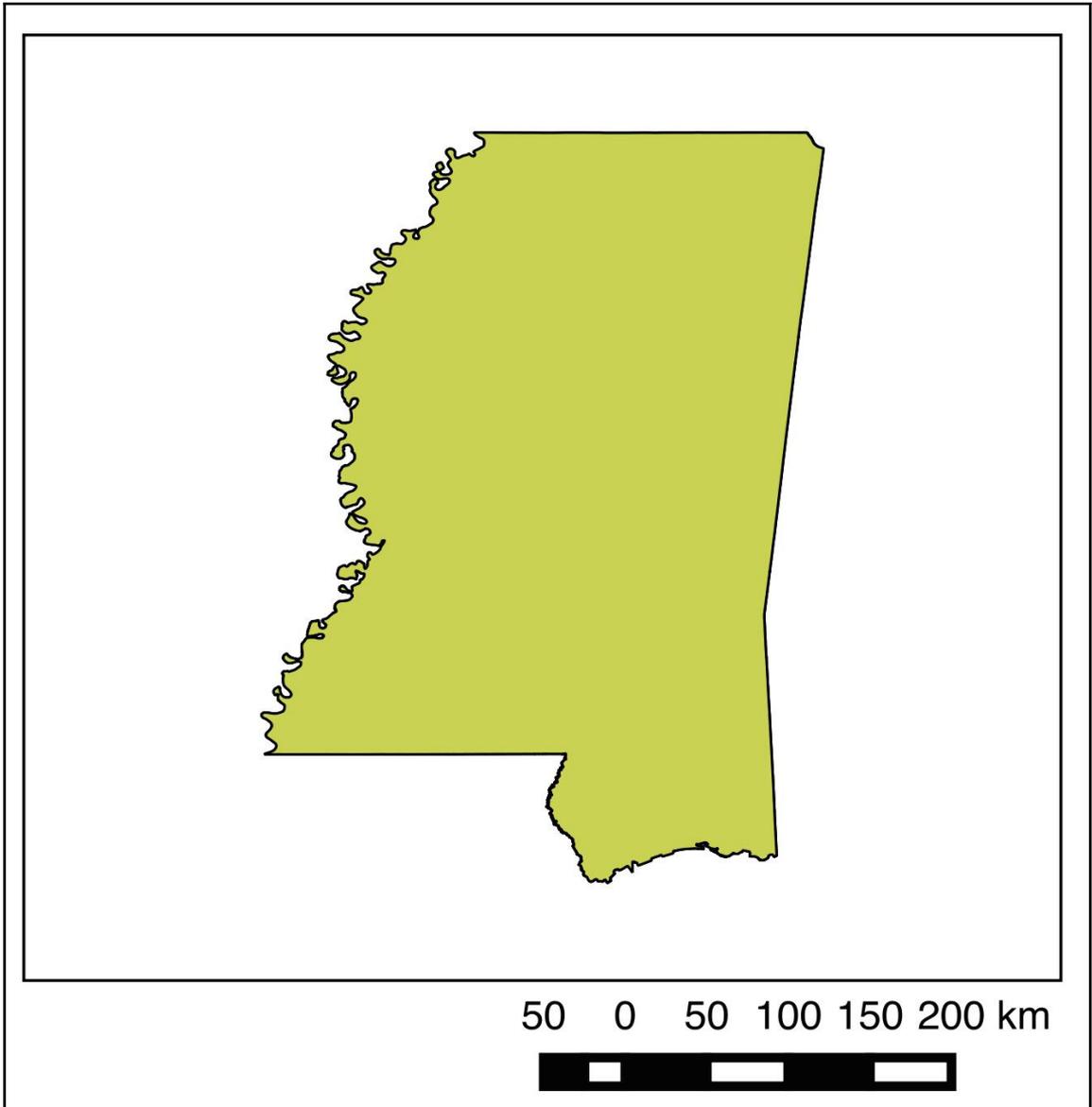


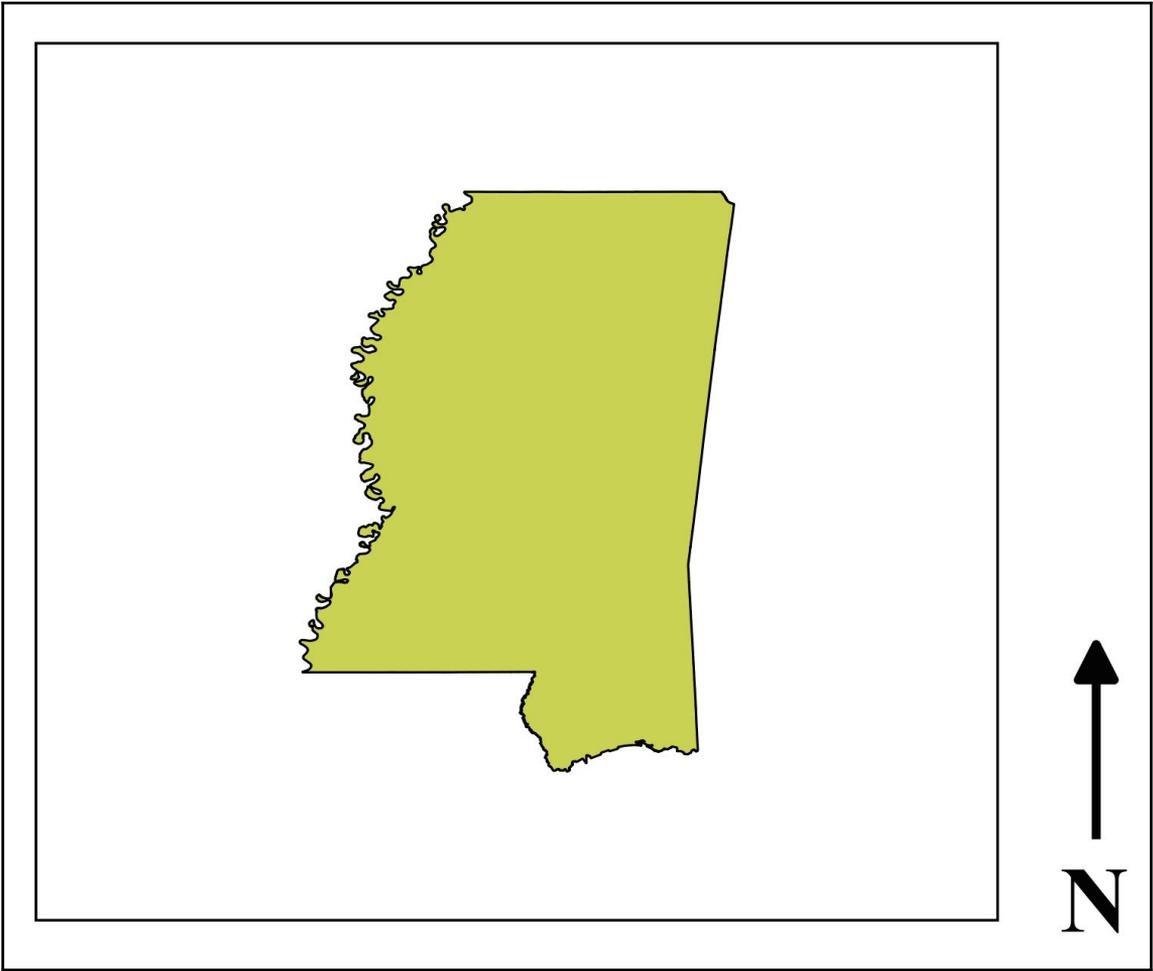
Chapter 6: Composing Static Maps

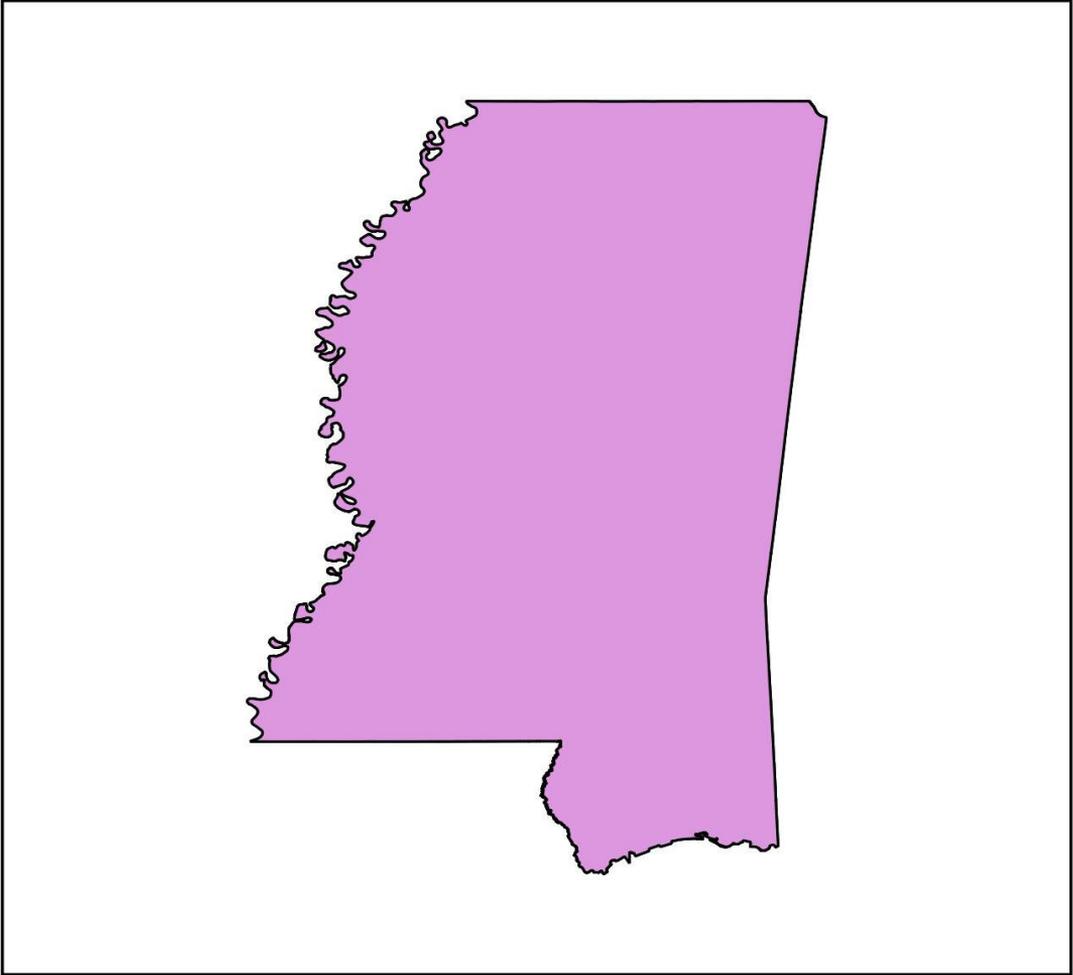


Hancock County



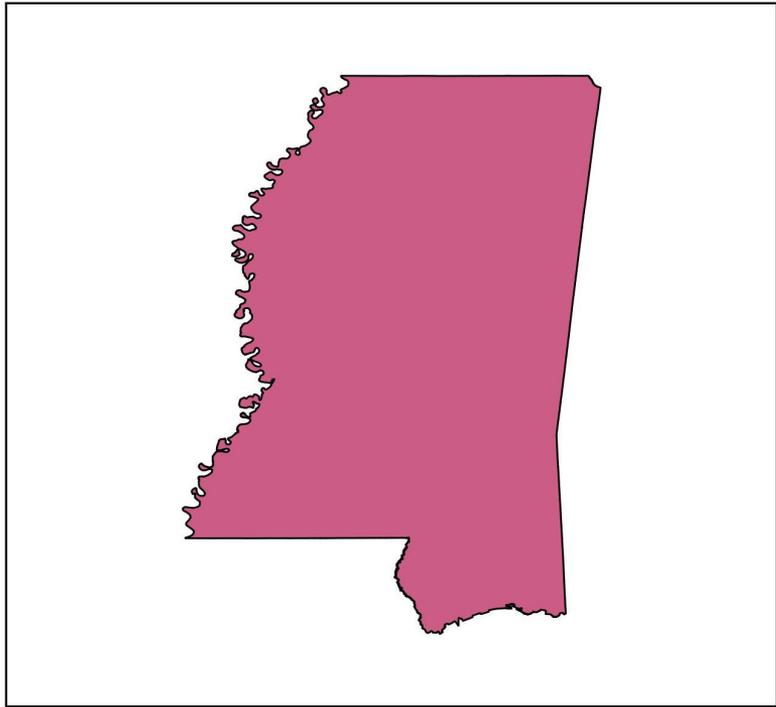






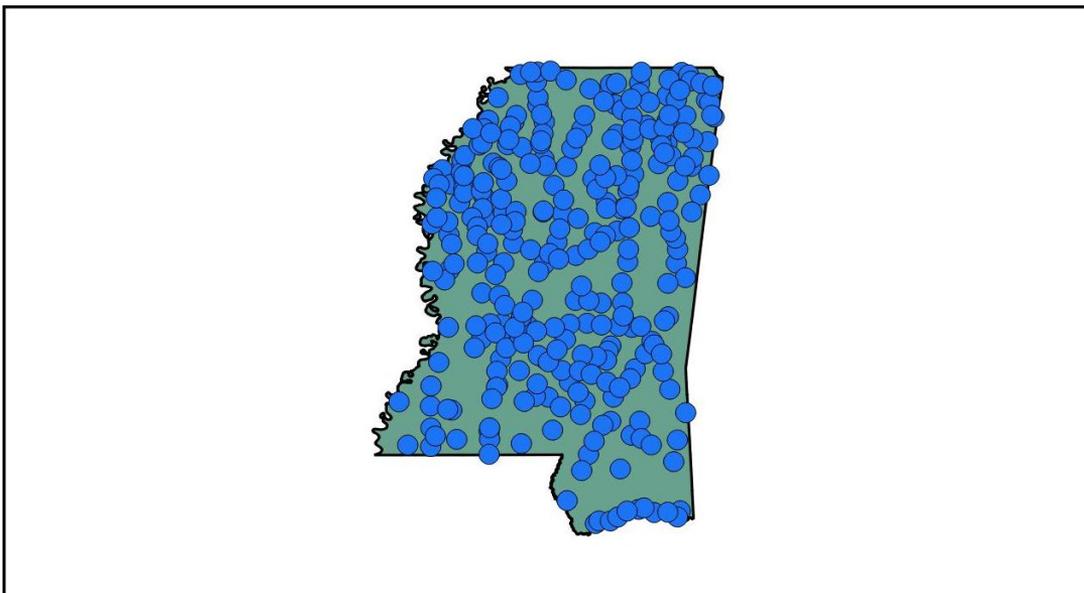
Legend

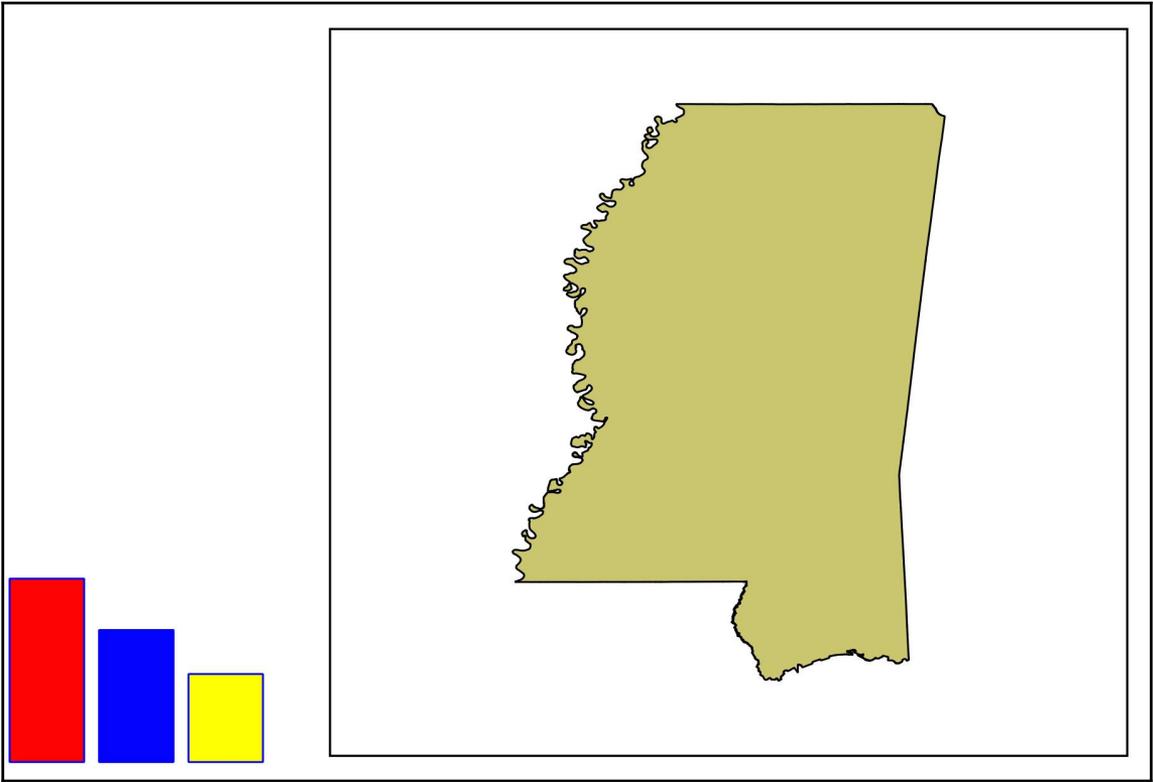
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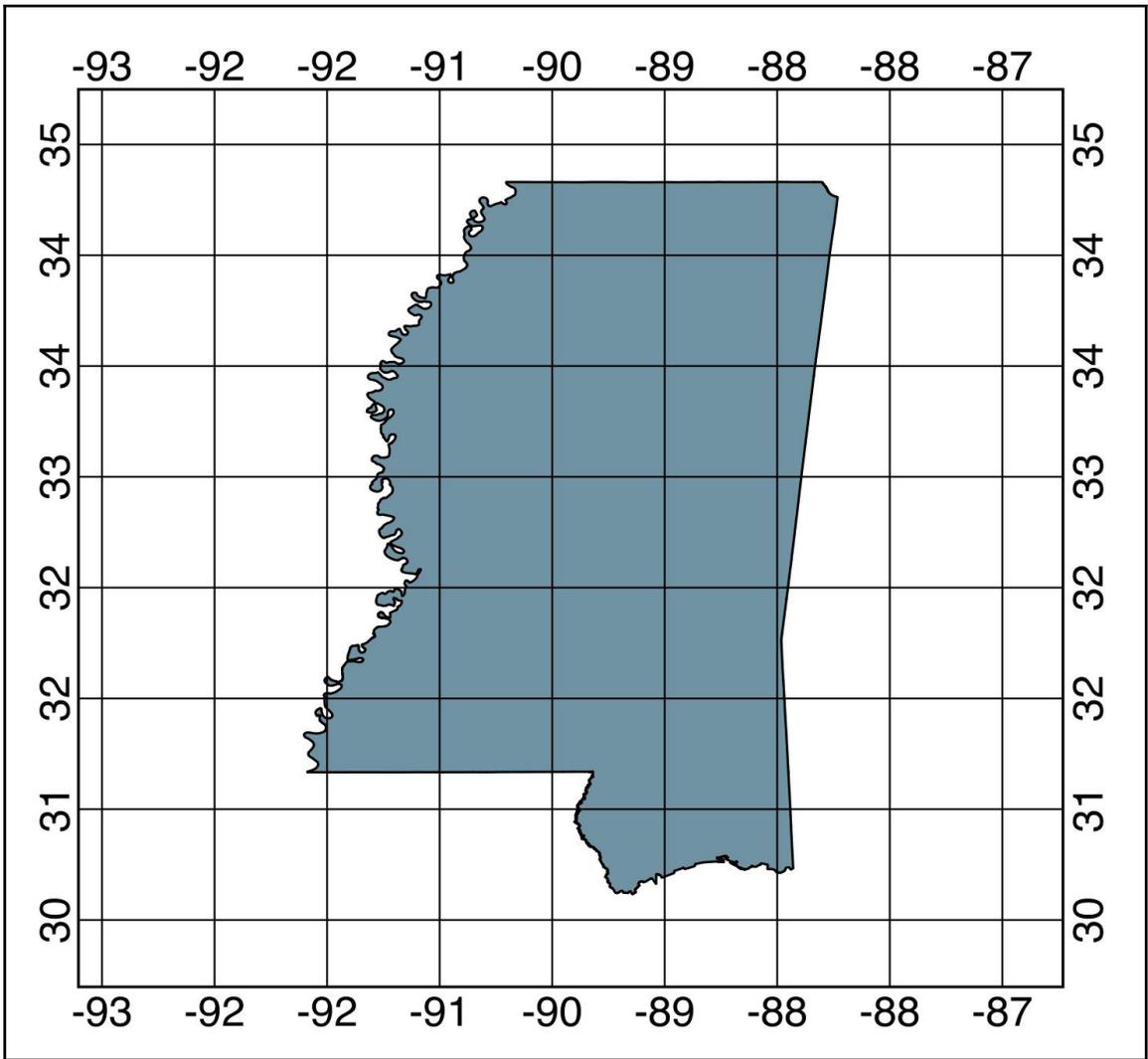


Legend

- Cities
- Mississippi



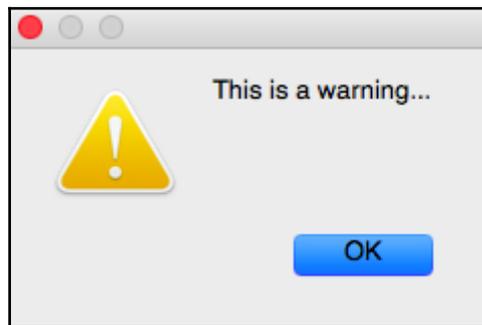
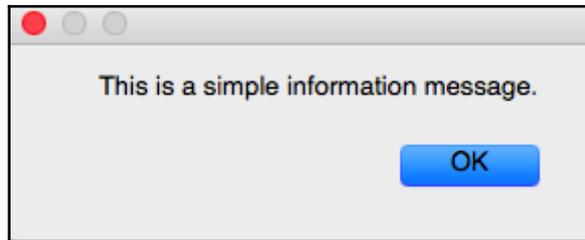
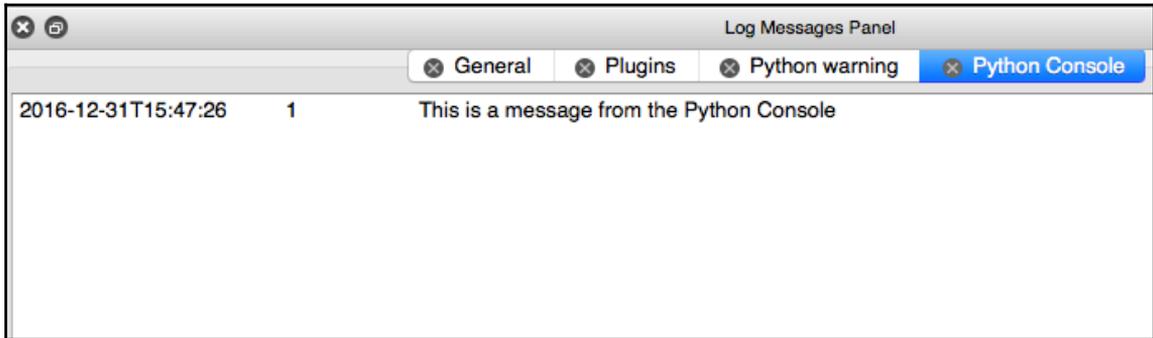


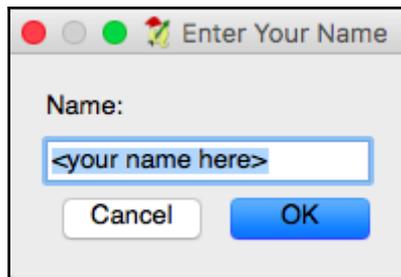
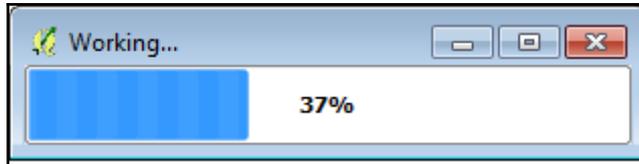
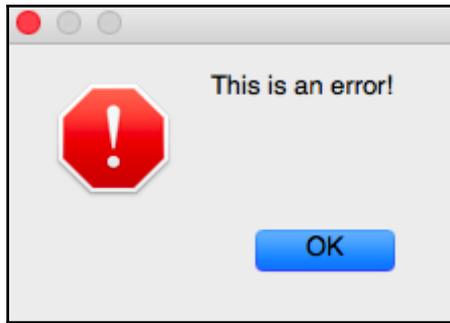


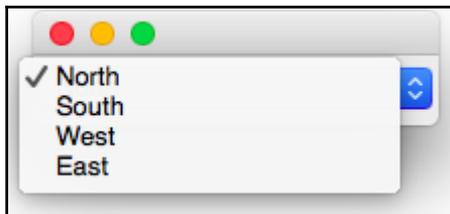
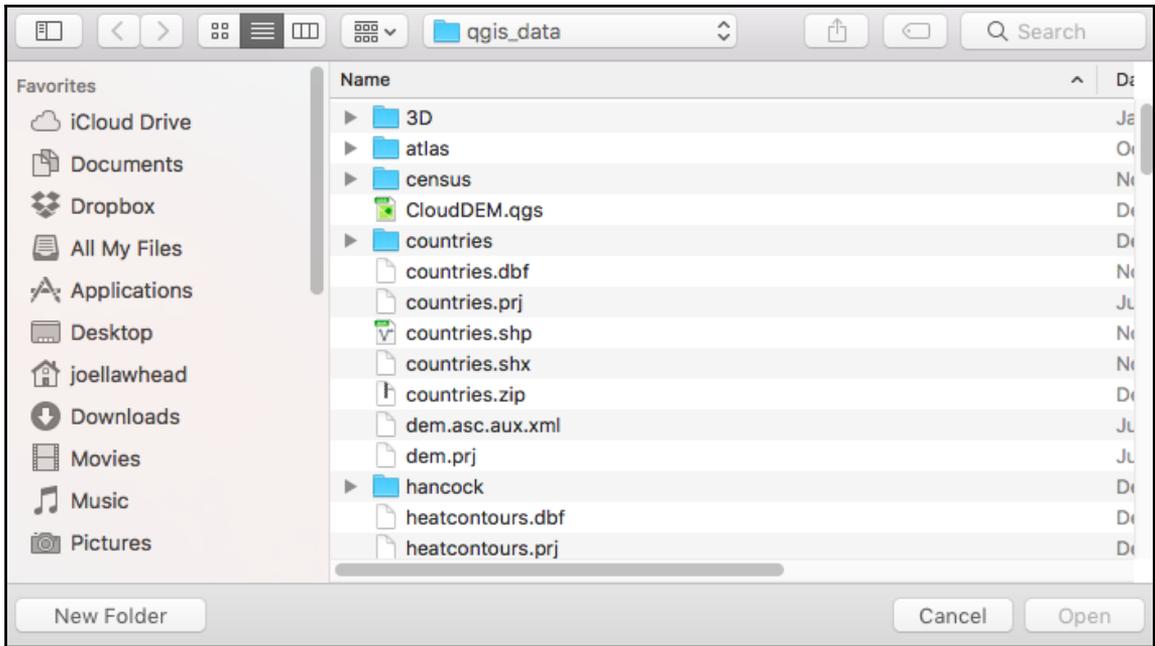


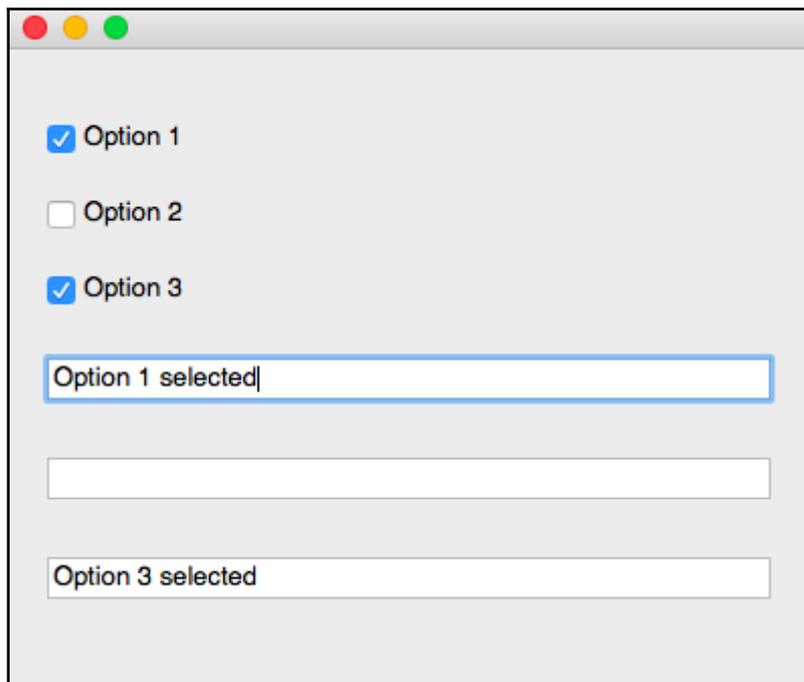
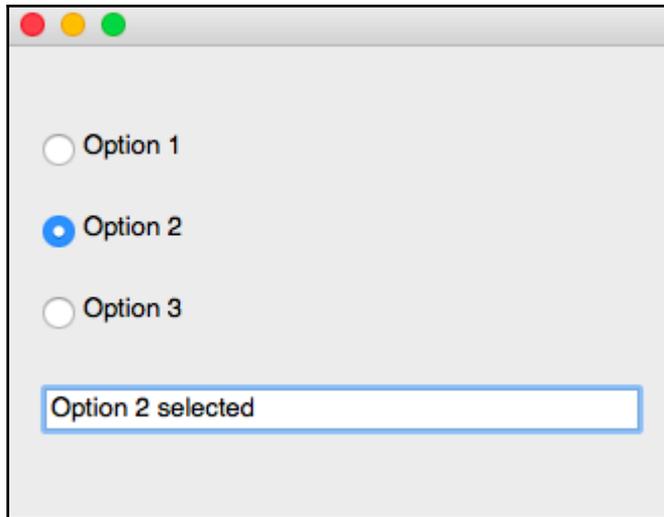
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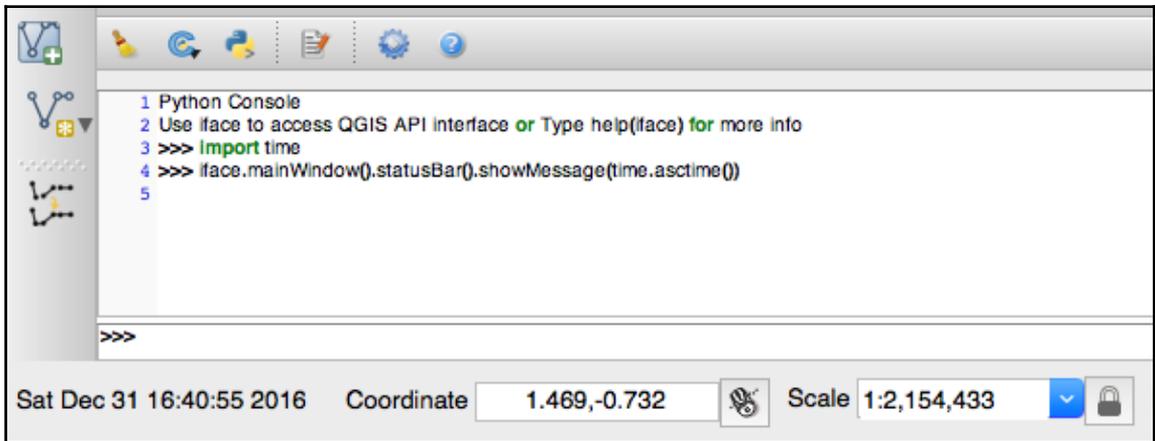
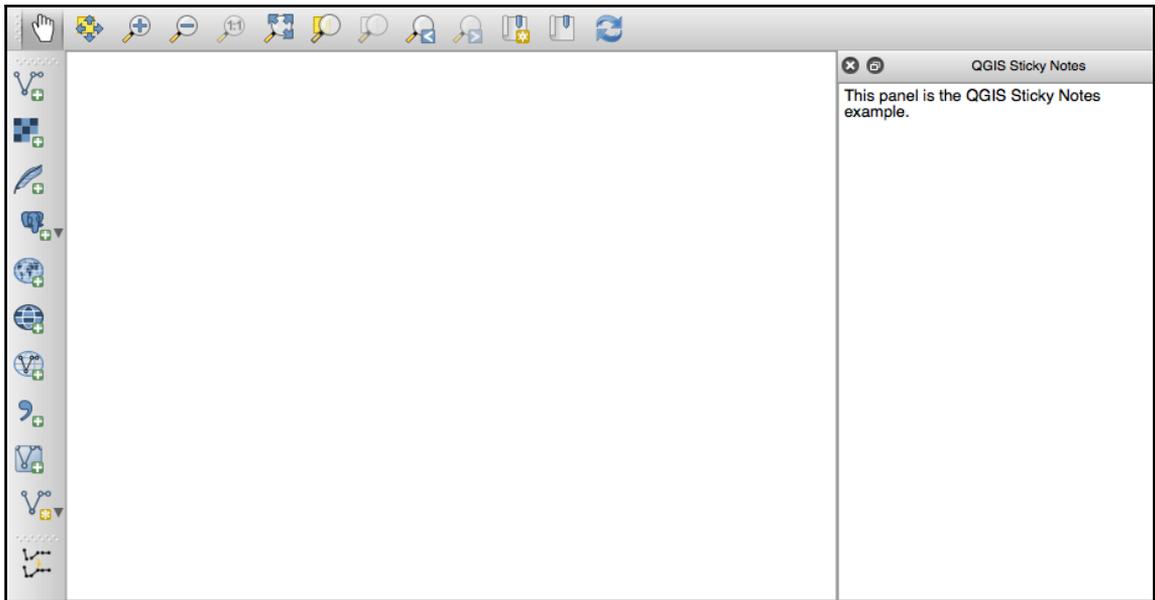
Chapter 7: Interacting with the User

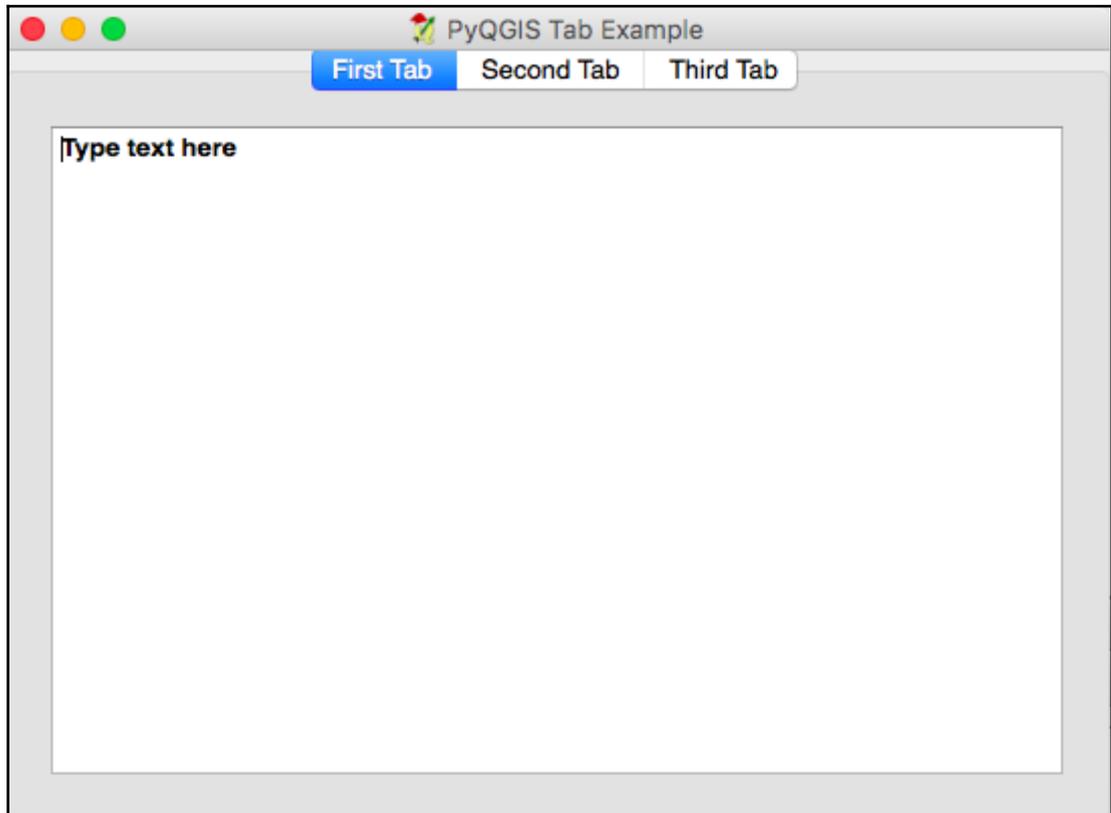
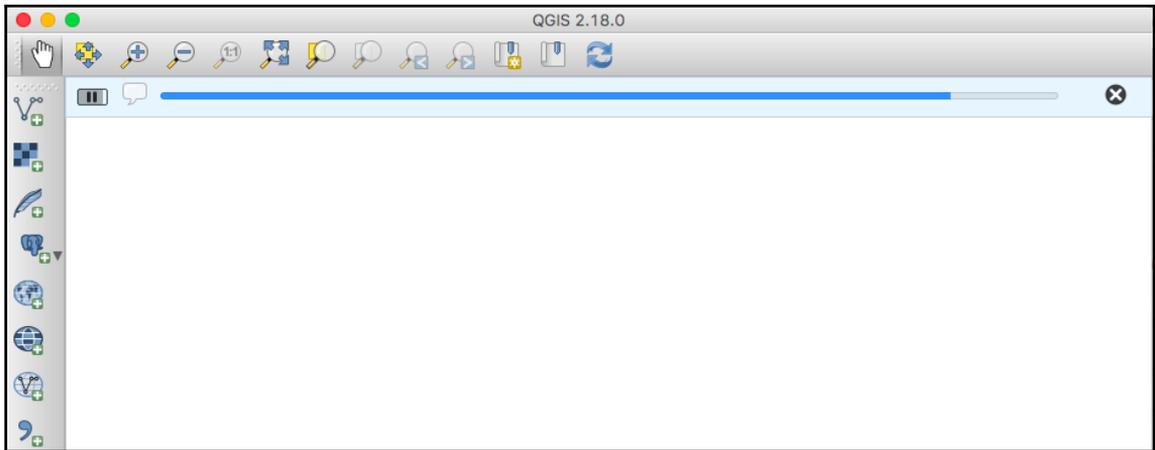










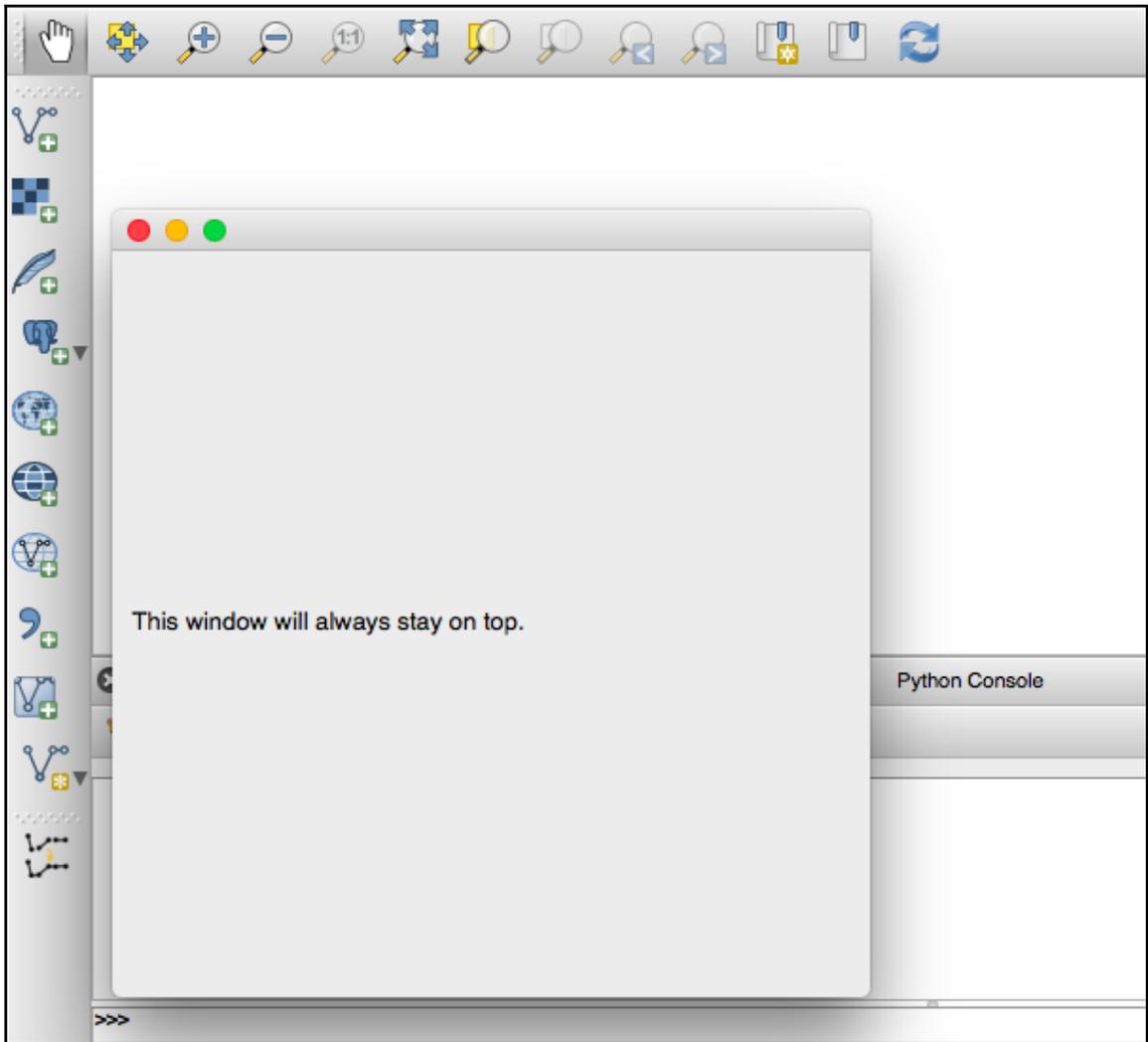


When's Your Birthday?

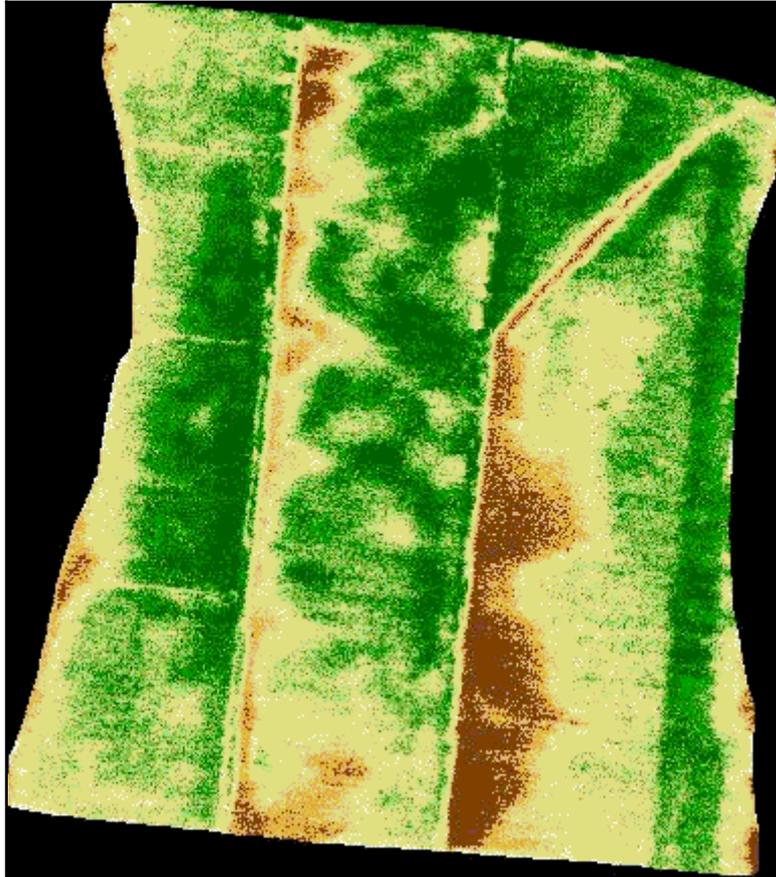
Please Select Your Birthday.

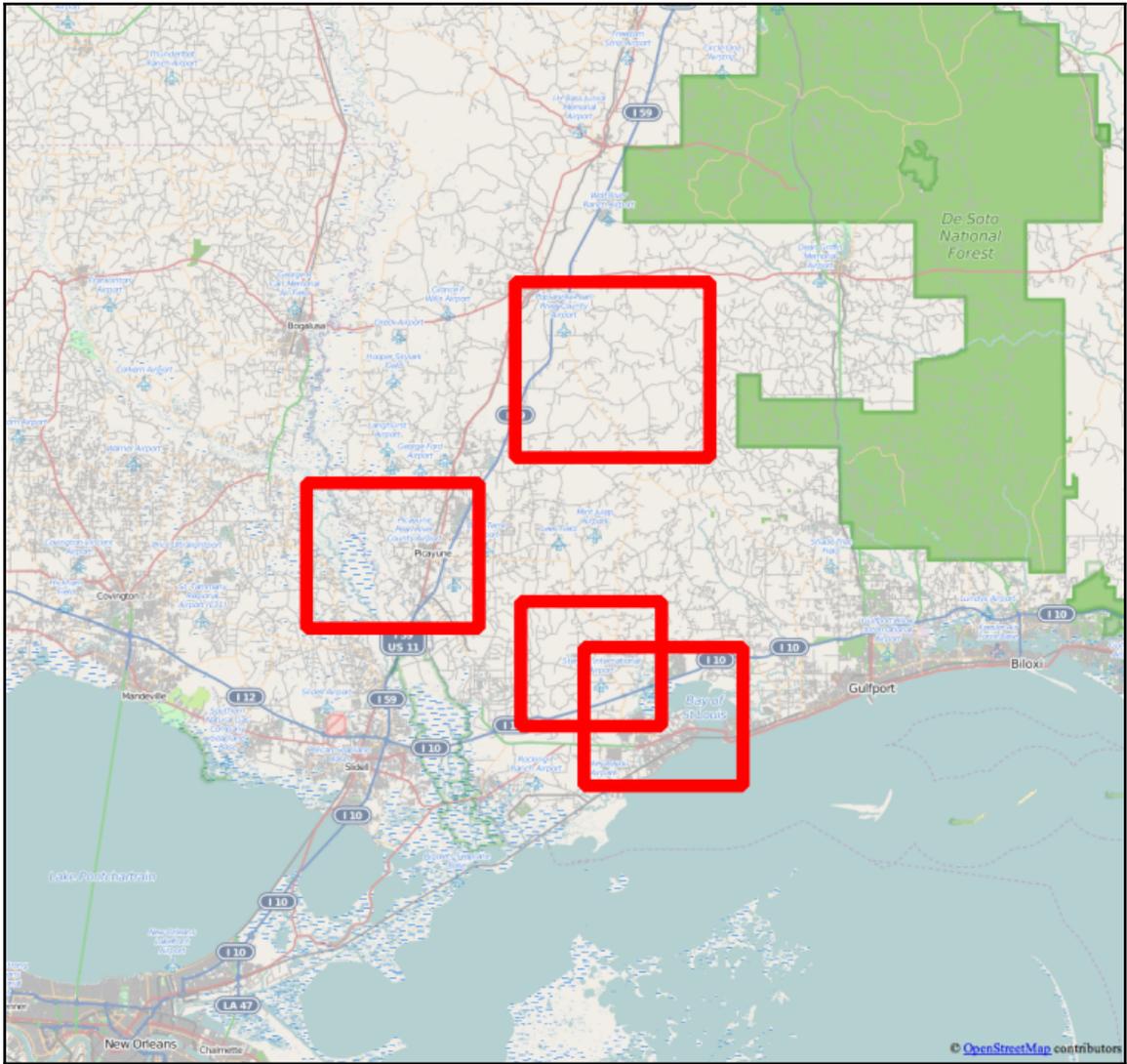
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
44	26	27	28	29	30	31	1
45	2	3	4	5	6	7	8
46	9	10	11	12	13	14	15
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49	30	1	2	3	4	5	6

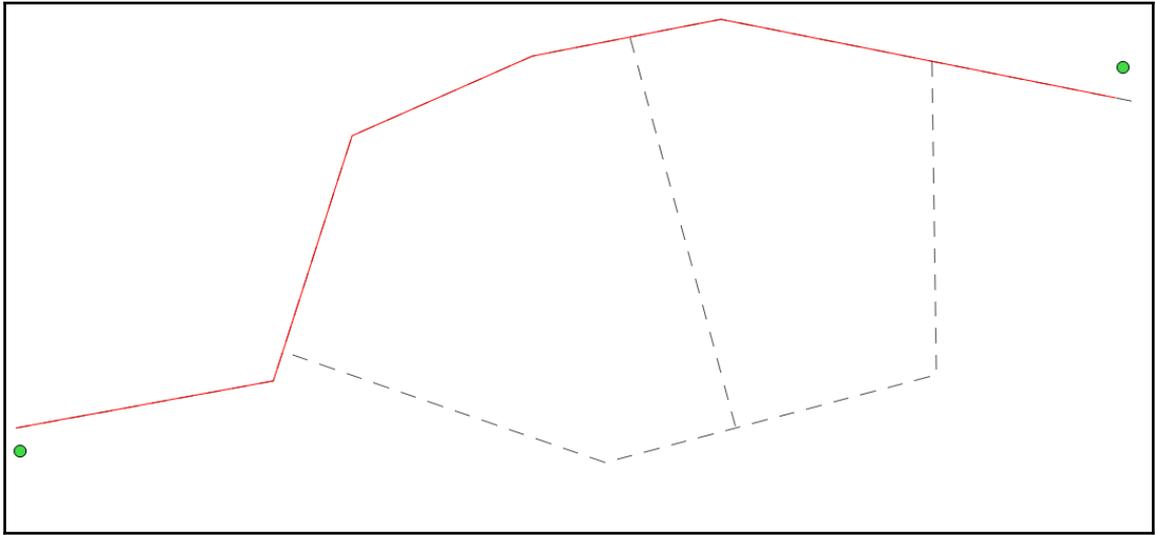
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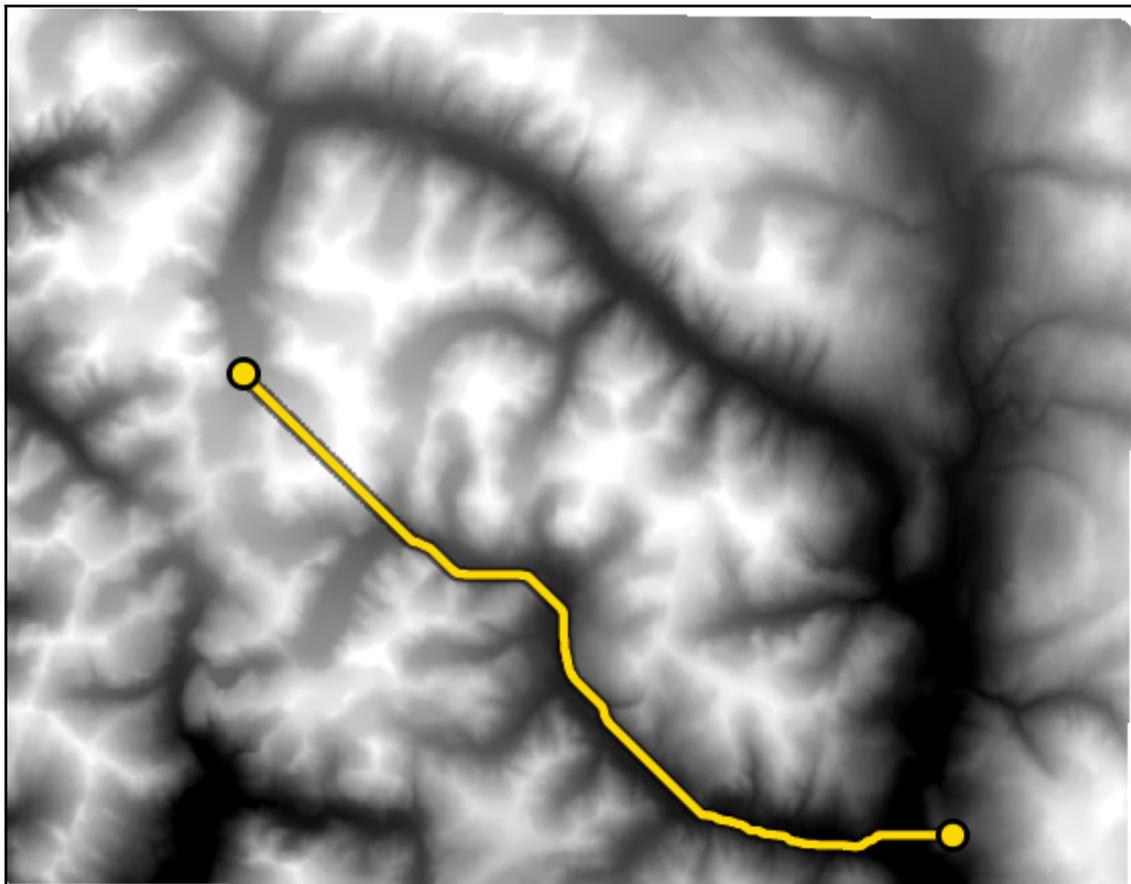


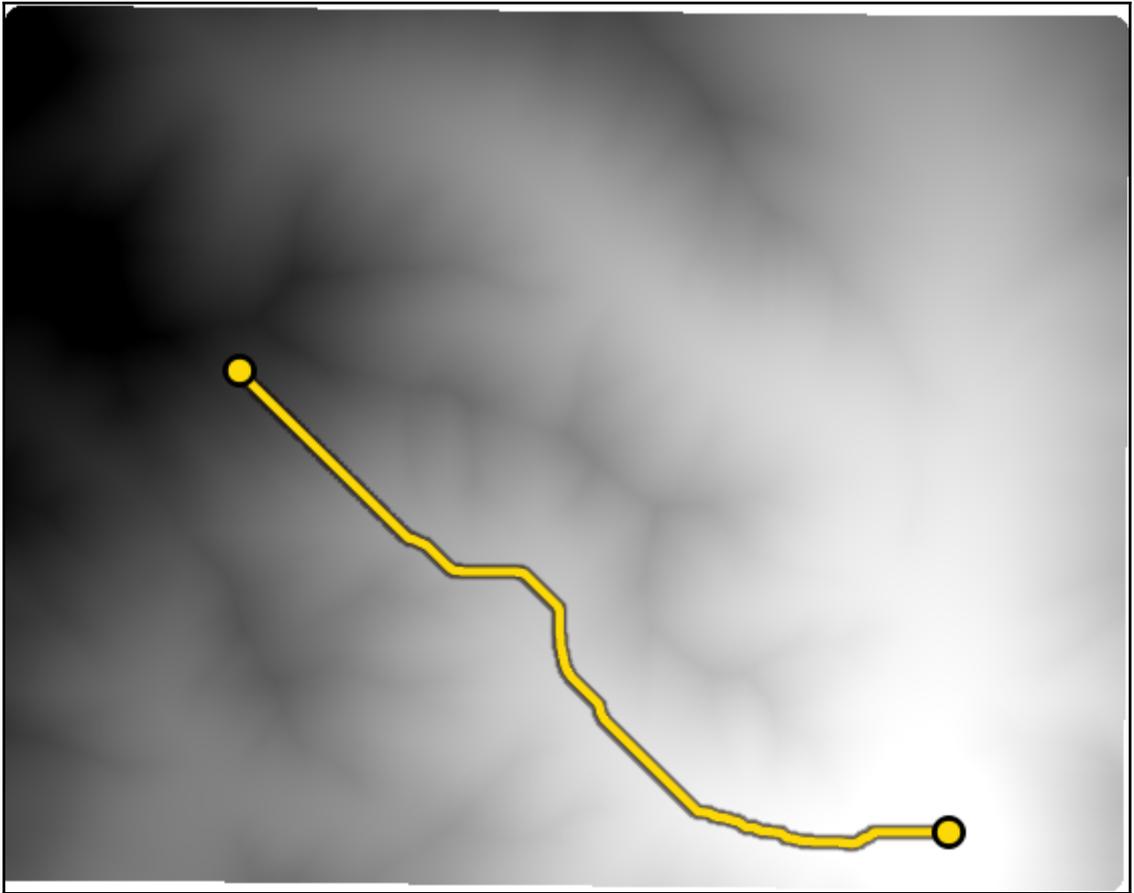
Chapter 8: QGIS Workflows

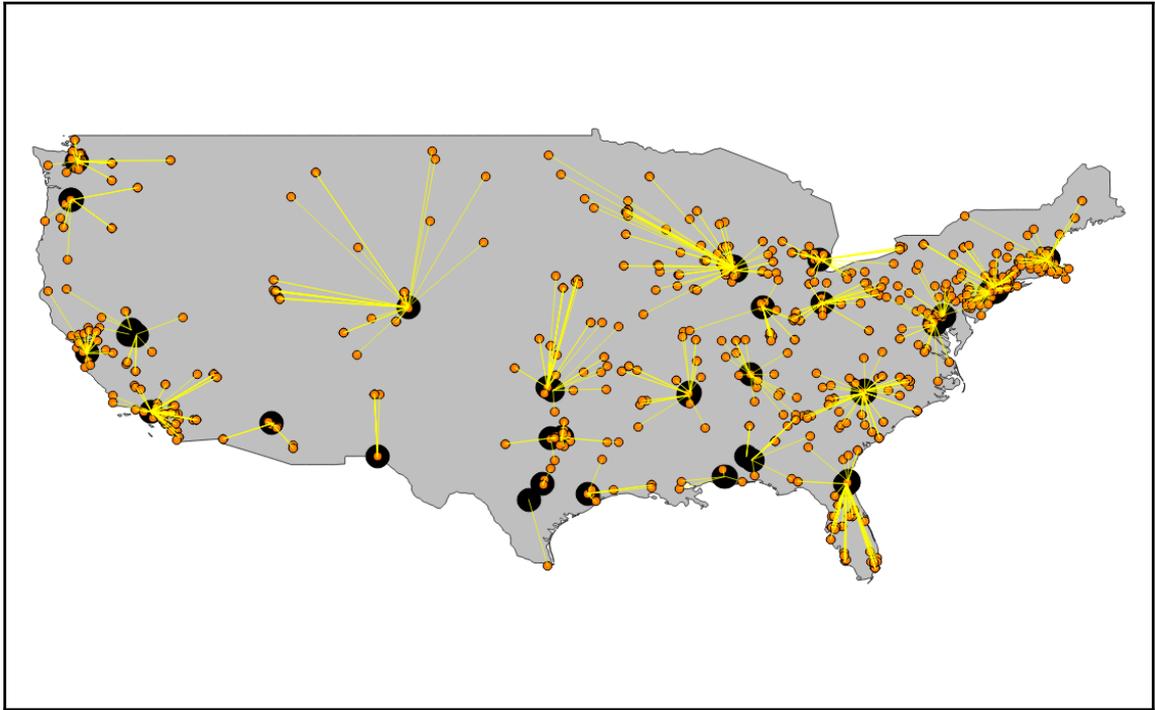




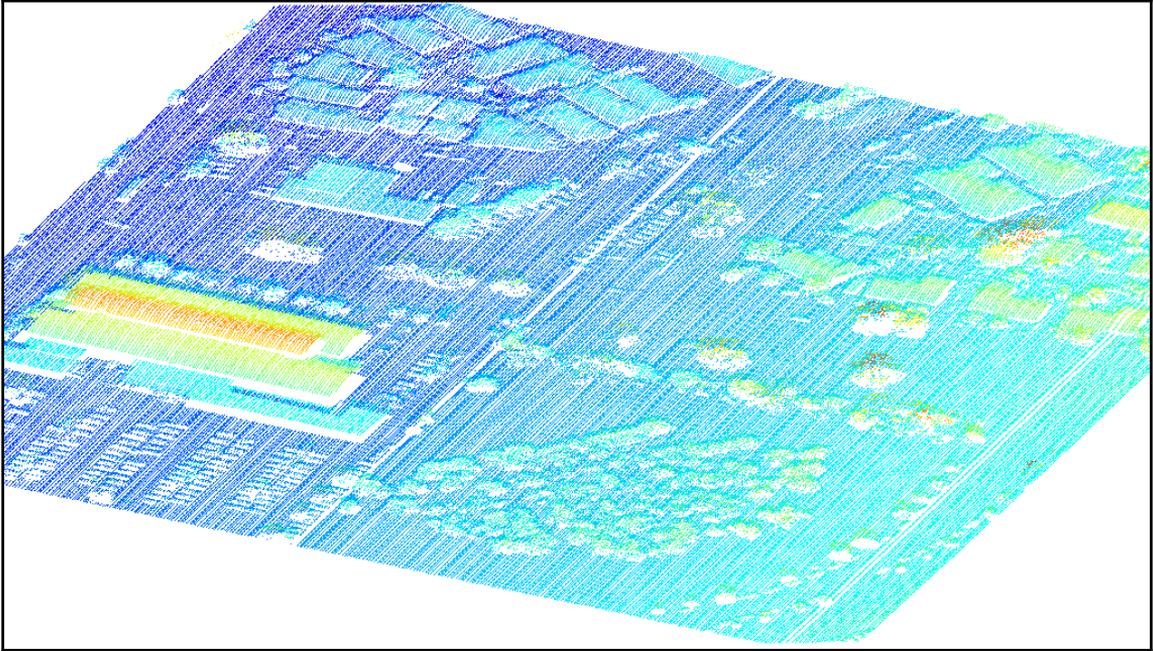


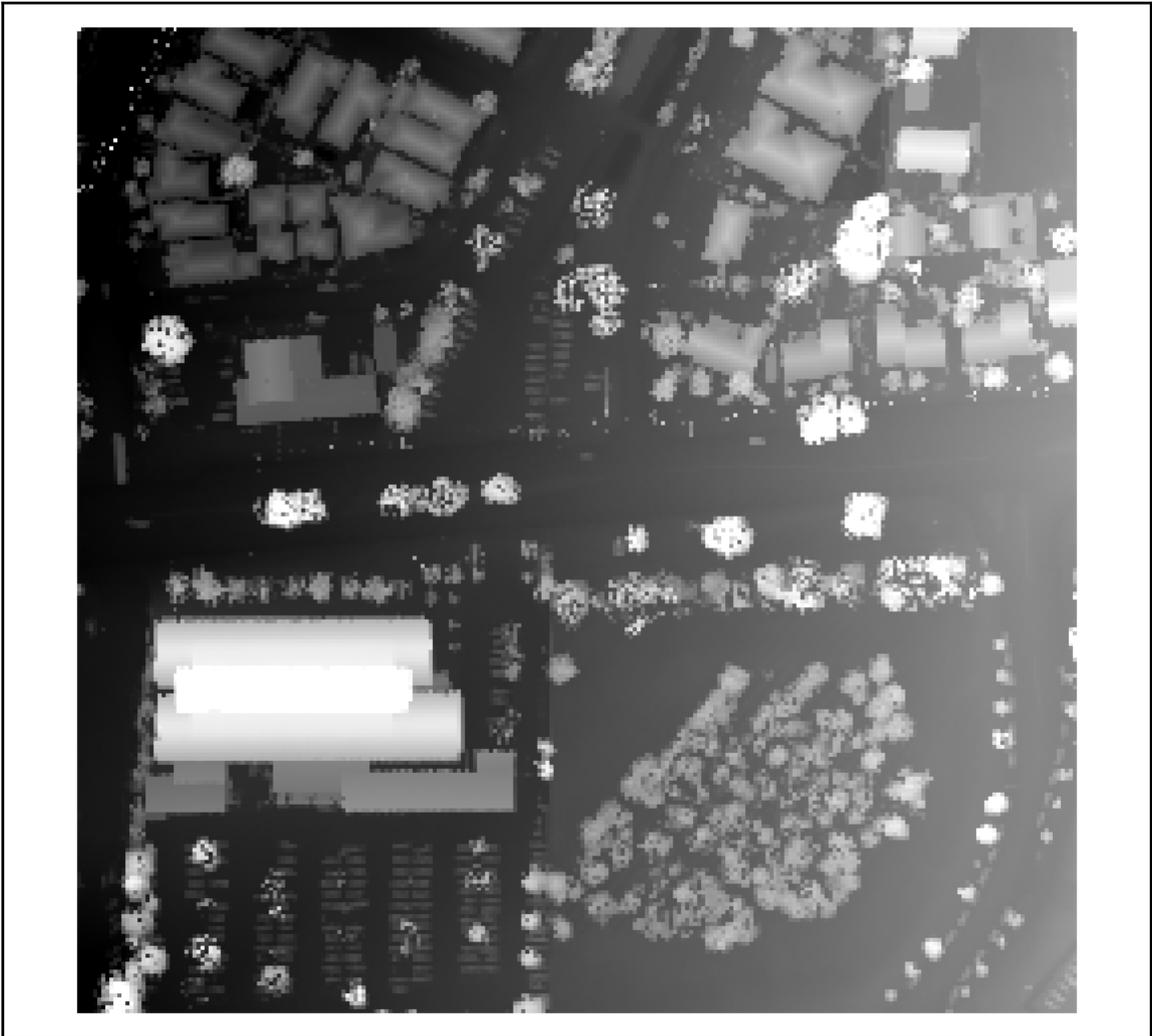


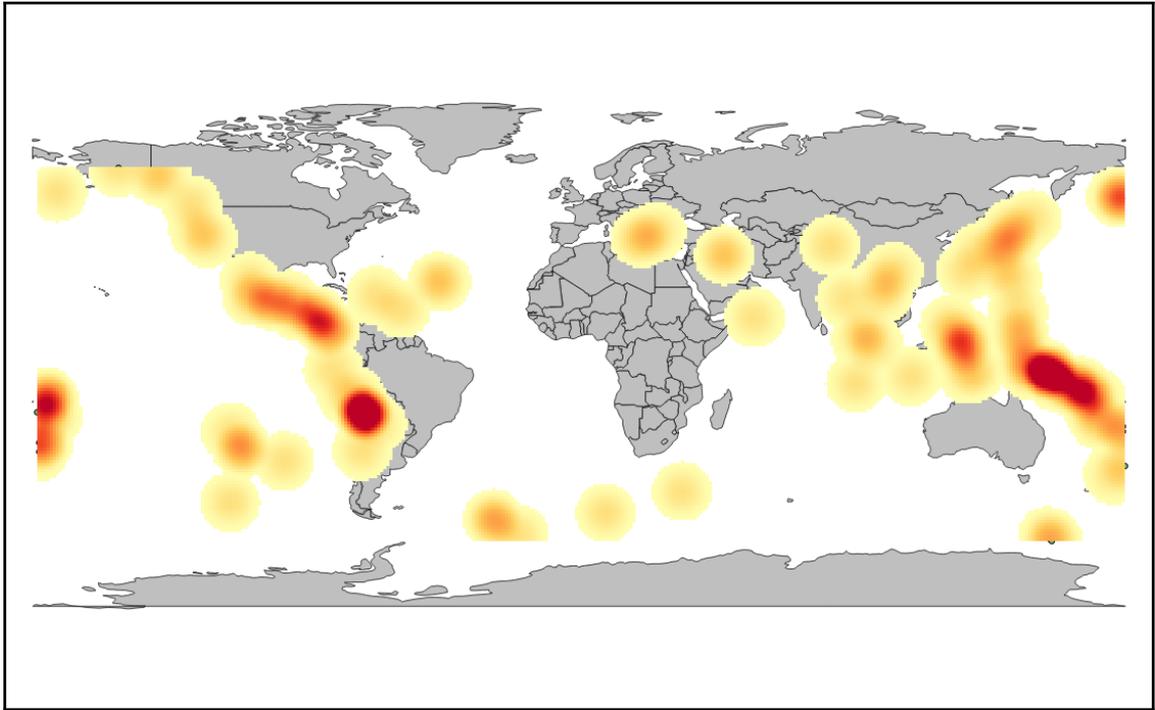


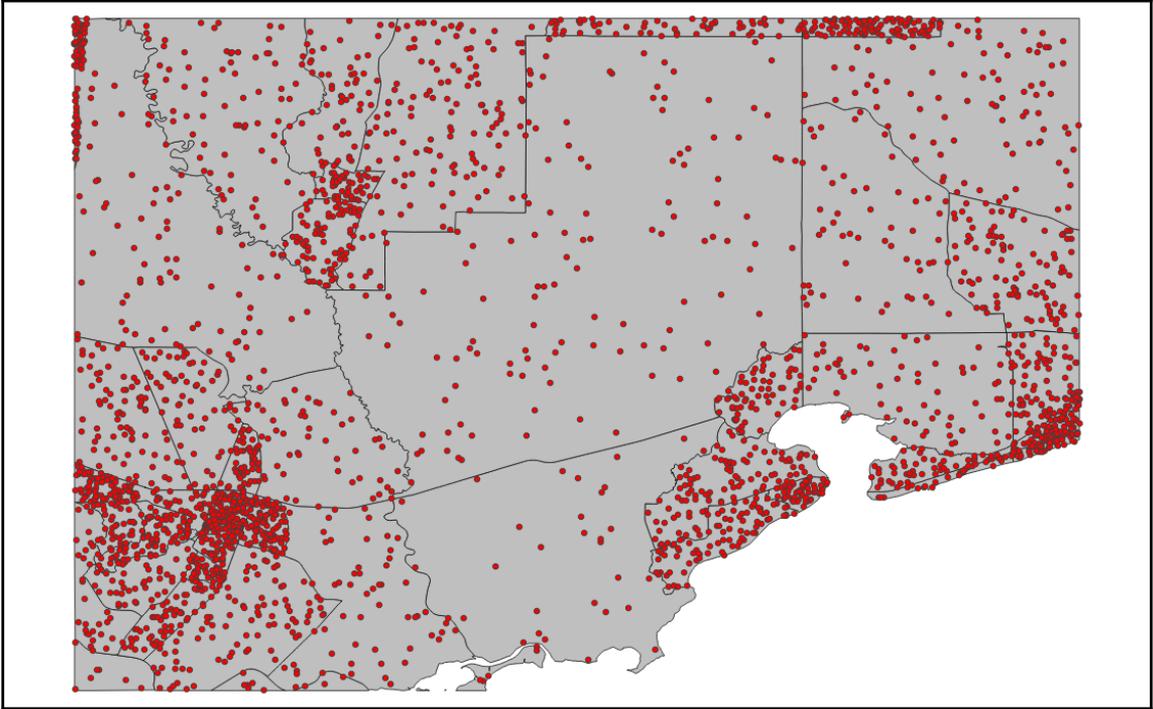


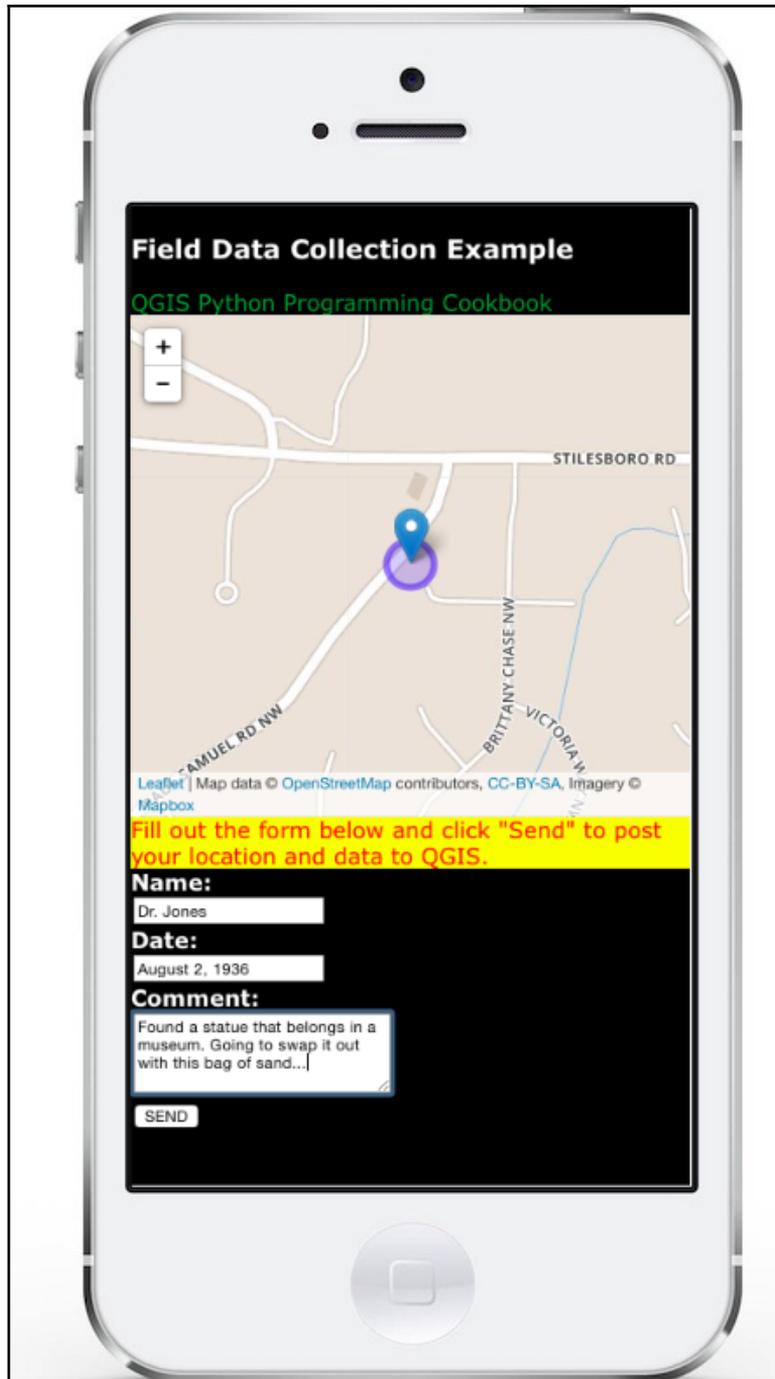
Tools for LiDAR data	
✕ Activate	<input checked="" type="checkbox"/>
✕ Fusion folder	
✕ LAsTools folder	/Applications/LAsTools
✕ Wine folder	/Applications/Wine.app/Contents/Resources/bin

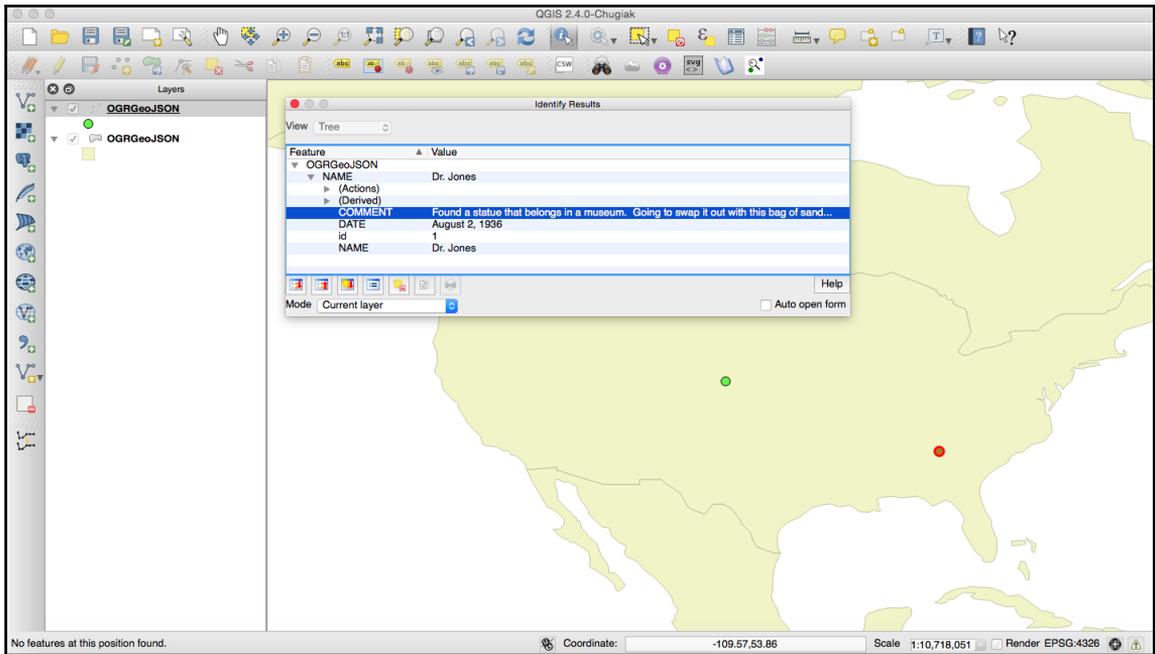


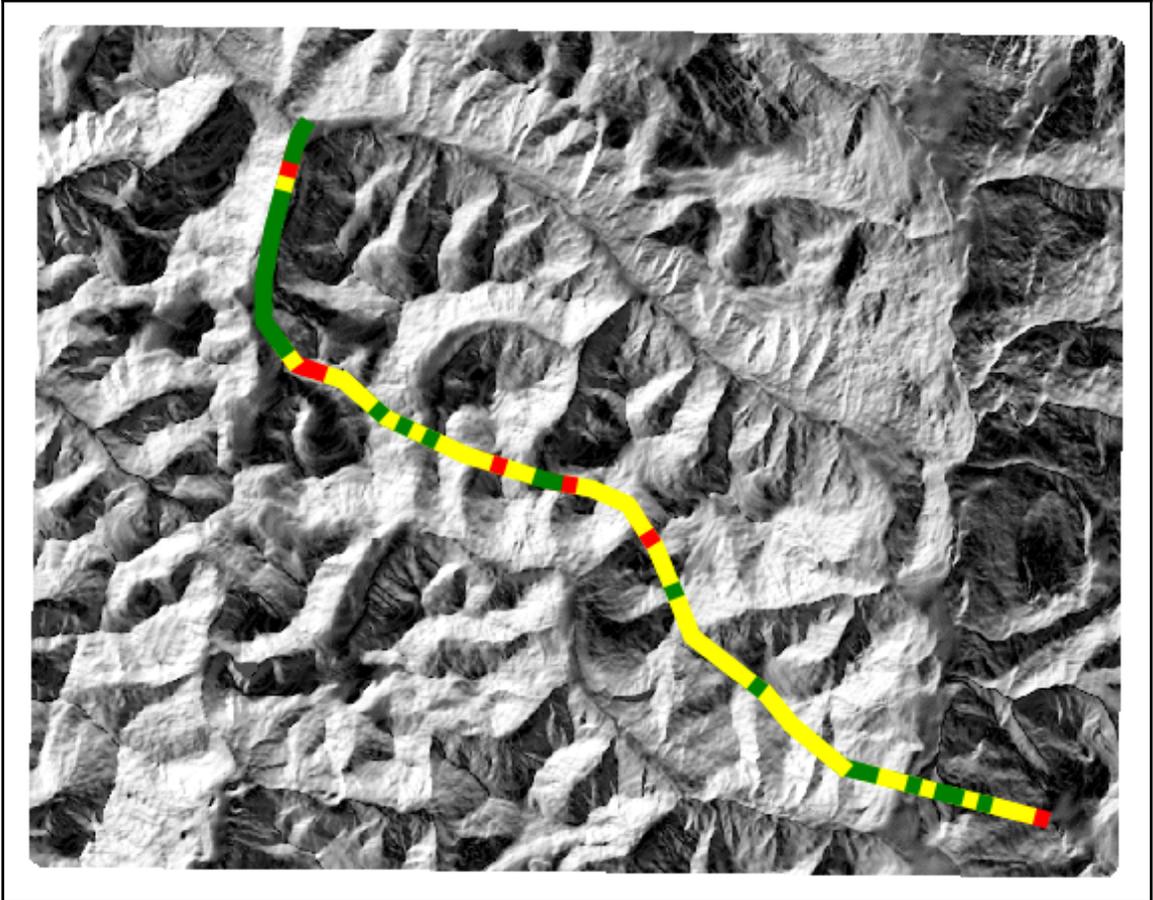


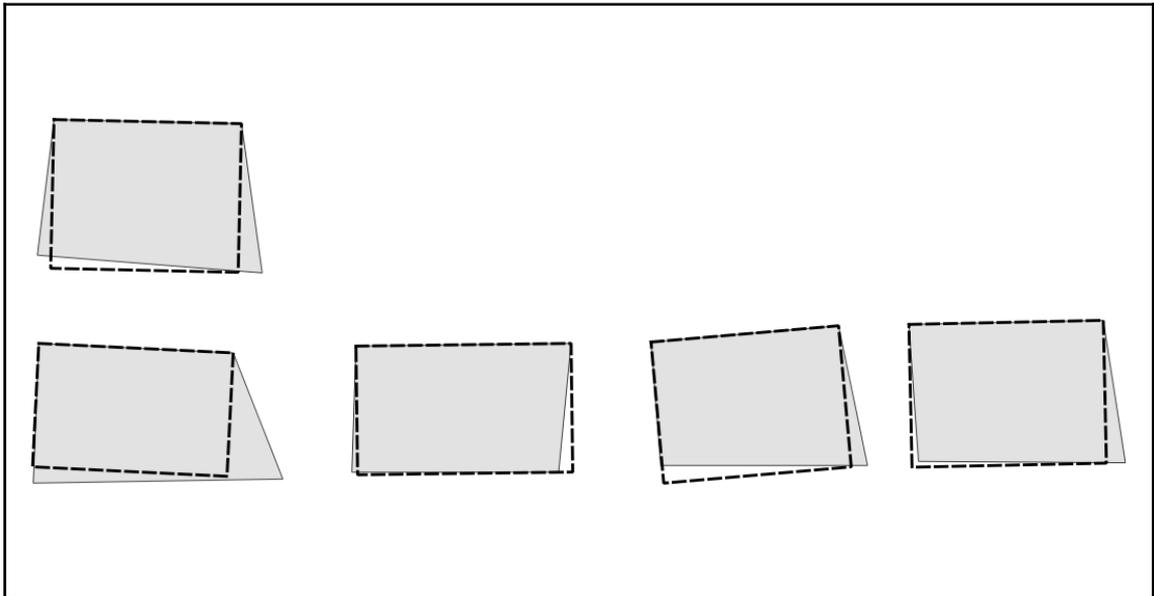
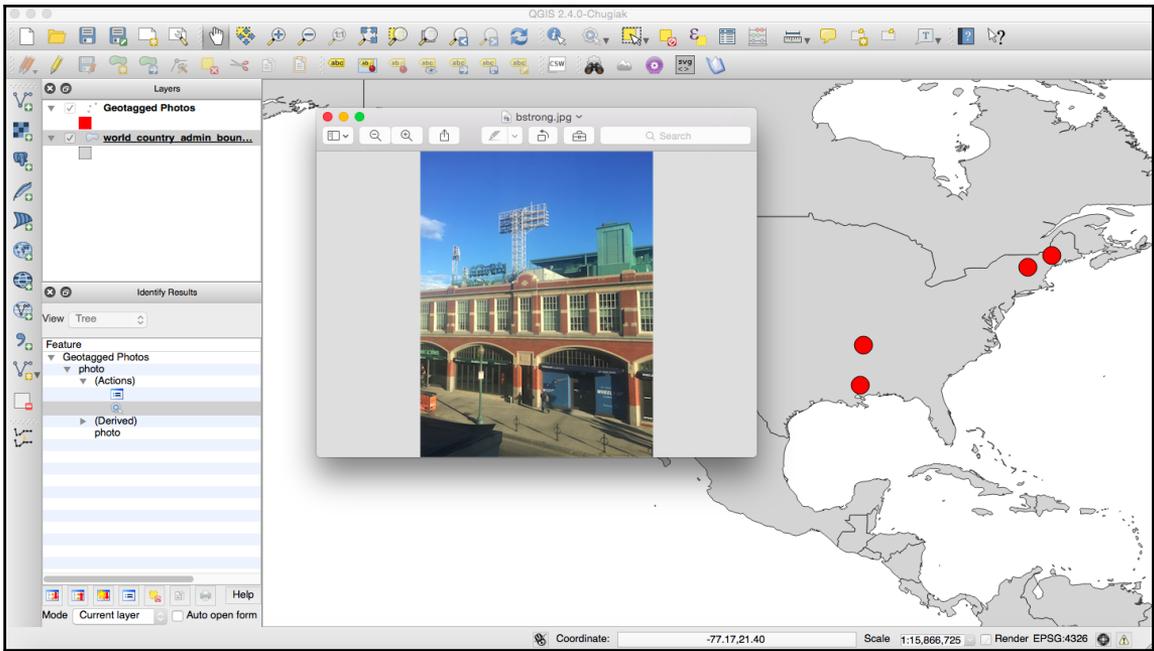


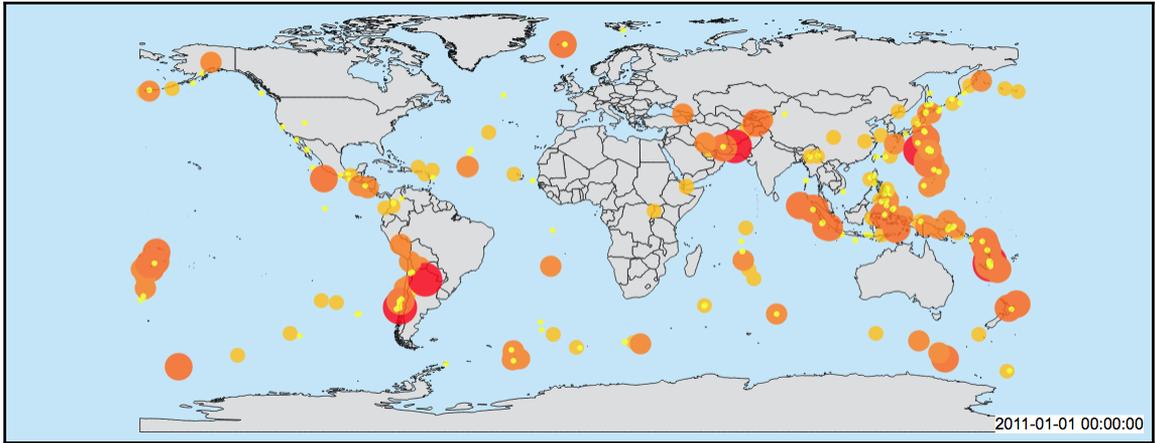




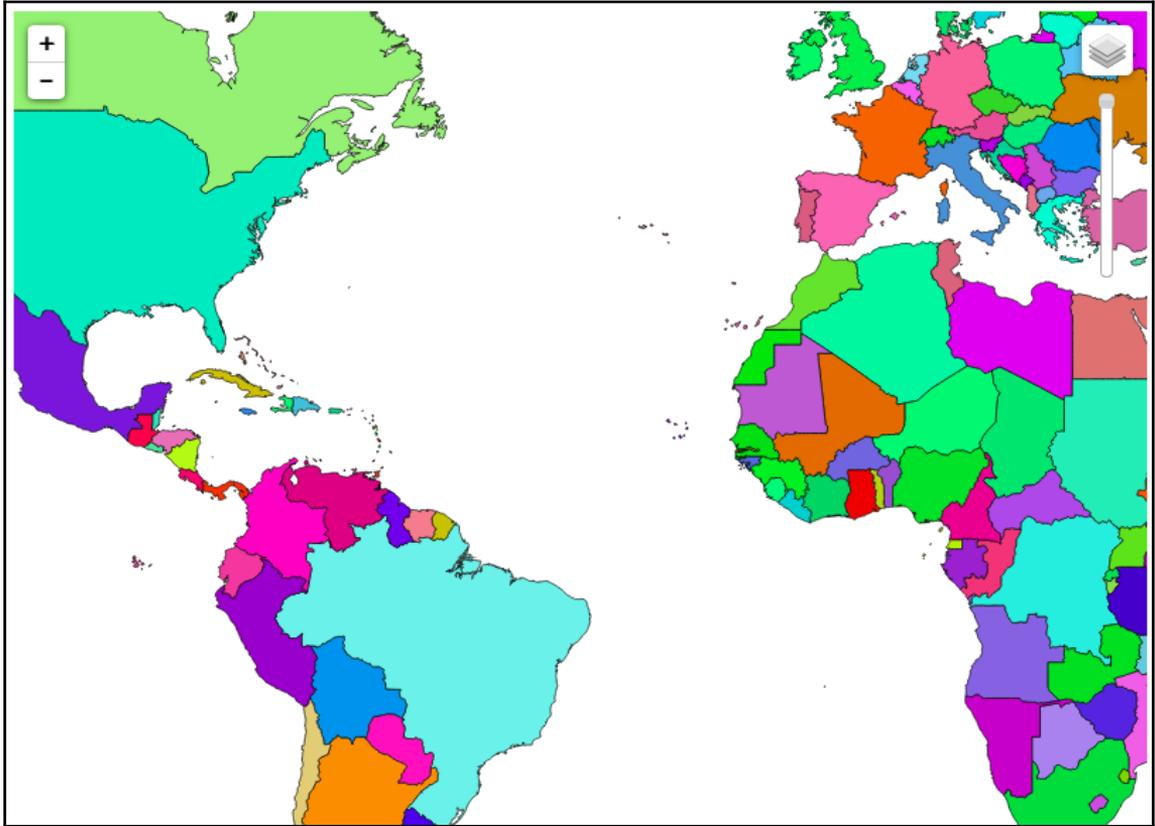








Chapter 9: Other Tips and Tricks



The image shows a web application interface. On the left is a map view of a building on ULMAN AVE. The map includes a search bar with the text "anonymous/124d5cd50df121650335", a toolbar with icons for search, zoom, and other map functions, and a footer with "Mapbox Satellite OSM Feedback, About, © Mapbox © OpenStreetMap Improve this map". On the right is a code editor showing JSON data for the selected feature. The code is as follows:

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1 {
2   "type": "FeatureCollection",
3   "crs": {
4     "type": "name",
5     "properties": {
6       "name": "urn:ogc:def:crs:OGC:1.3:CRS84"
7     }
8   },
9   "features": [
10    {
11      "type": "Feature",
12      "properties": {
13        "OBJECTID": 317638,
14        "COUNTY": "Hancock County",
15        "SOURCE_0": null,
16        "SOURCE_1": null
17      },
18      "geometry": {
19        "type": "Polygon",
20        "coordinates": [
21          [
22            [
23              -89.32846786554286,
24              30.3148608777998
25            ],
26            [
27              -89.32845633555856,
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