

# Simple Maps with QGIS

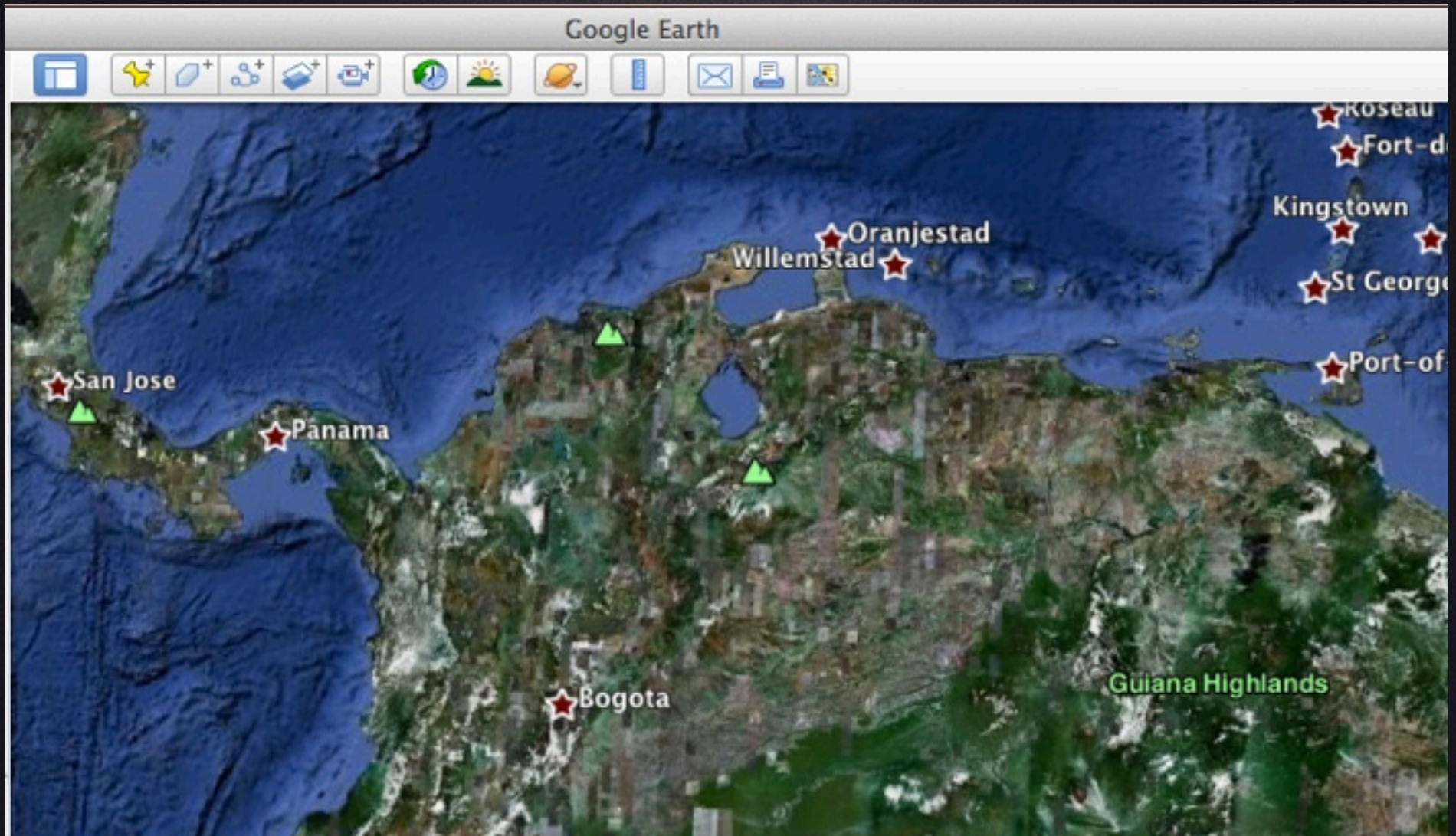
Konrad M. Lawson  
[muninn.net](http://muninn.net)

[muninn.net/get/simple-map](http://muninn.net/get/simple-map)



# Create a Map in Google Earth

earth.google.com



# KML Format



```
<?xml version="1.0" encoding="UTF-8"?>
<kml xmlns="http://earth.google.com/kml/2.2">
<Document>
  <name>Shandong</name>
  <description><![CDATA[]]></description>
  <Style id="style5">
    <IconStyle>
      <Icon>
        <href>http://maps.google.com/mapfiles/ms/micons/blue-dot.png</href>
      </Icon>
    </IconStyle>
  </Style>
  <Style id="style6">
    <IconStyle>
      <Icon>
        <href>http://maps.google.com/mapfiles/ms/micons/blue-dot.png</href>
      </Icon>
    </IconStyle>
  </Style>
  <Placemark>
    <name>Shandong Provincial Library</name>
    <description><![CDATA[+36° 40' 53.22", +117° 4' 2.57"<br>]]></description>
    <styleUrl>#style2</styleUrl>
    <Point>
      <coordinates>117.067383,36.681450,0.000000</coordinates>
    </Point>
  </Placemark>
  <Placemark>
    <name>Shandong University South Exit</name>
    <description><![CDATA[+36° 40' 17.87", +117° 3' 14.00"<br>]]></description>
    <styleUrl>#style5</styleUrl>
    <Point>
      <coordinates>117.053886,36.671631,0.000000</coordinates>
    </Point>
  </Placemark>
</Document>
</kml>
```

(KMZ is just a compressed KML, plus any supporting files included)

# National Geographic MapMaker

[education.nationalgeographic.com/education/mapping/interactive-map/](http://education.nationalgeographic.com/education/mapping/interactive-map/)

Select a region to explore

REGION  
--Select--

MAP MODE  
Terrain

THEMES

- ▶ Physical Systems - Water
- ▶ Physical Systems - Land
- ▶ Physical System - Climate
- ▶ Human Systems - Populations & Culture
- ▶ Human Systems - Political & Economic
- ▶ Environment and Society


THEMES


DRAWING TOOLS


MARKERS

# GeoCommons Map Maker

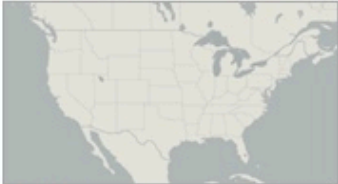











geocommons.com

 **Basemaps**

 **Find Data**

 **Upload**

**Get Started** by selecting a basemap below...

		
<b>Acetate</b>	<b>Acetate Terrain</b>	<b>OpenStreetMap (Road)</b>
		
<b>Google Aerial</b>	<b>Google Hybrid</b>	<b>Google Road</b>
		
<b>MapQuest</b>	<b>Microsoft Aerial</b>	<b>Microsoft Hybrid</b>
		

# Harvard WorldMap

worldmap.harvard.edu

 **WorldMap** BETA

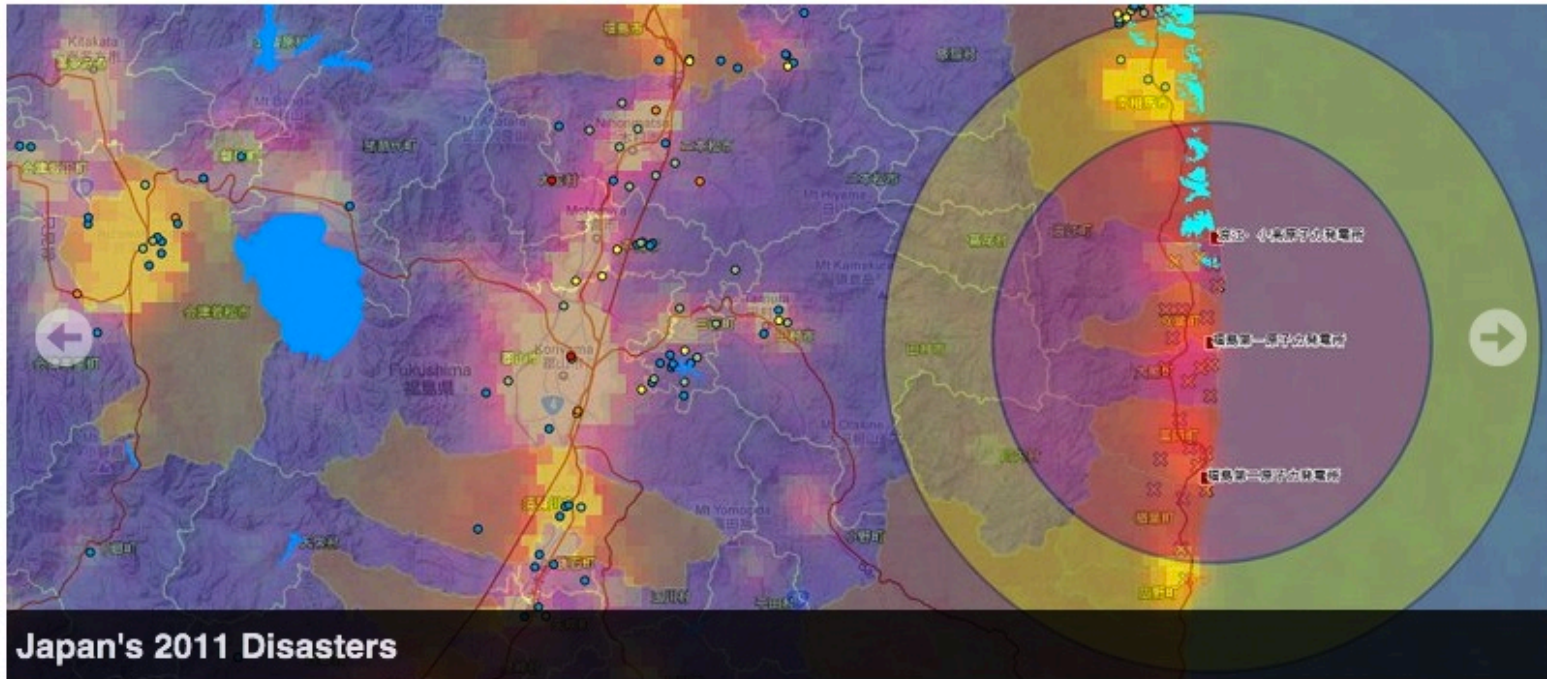
Explore, Visualize, and Publish Geographic Information

[Sign in](#) | [Create Map](#)

Create a Map

View a Map

About



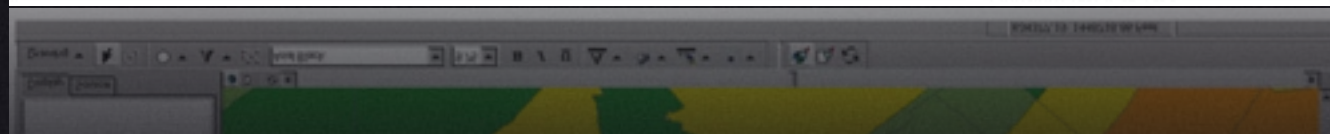
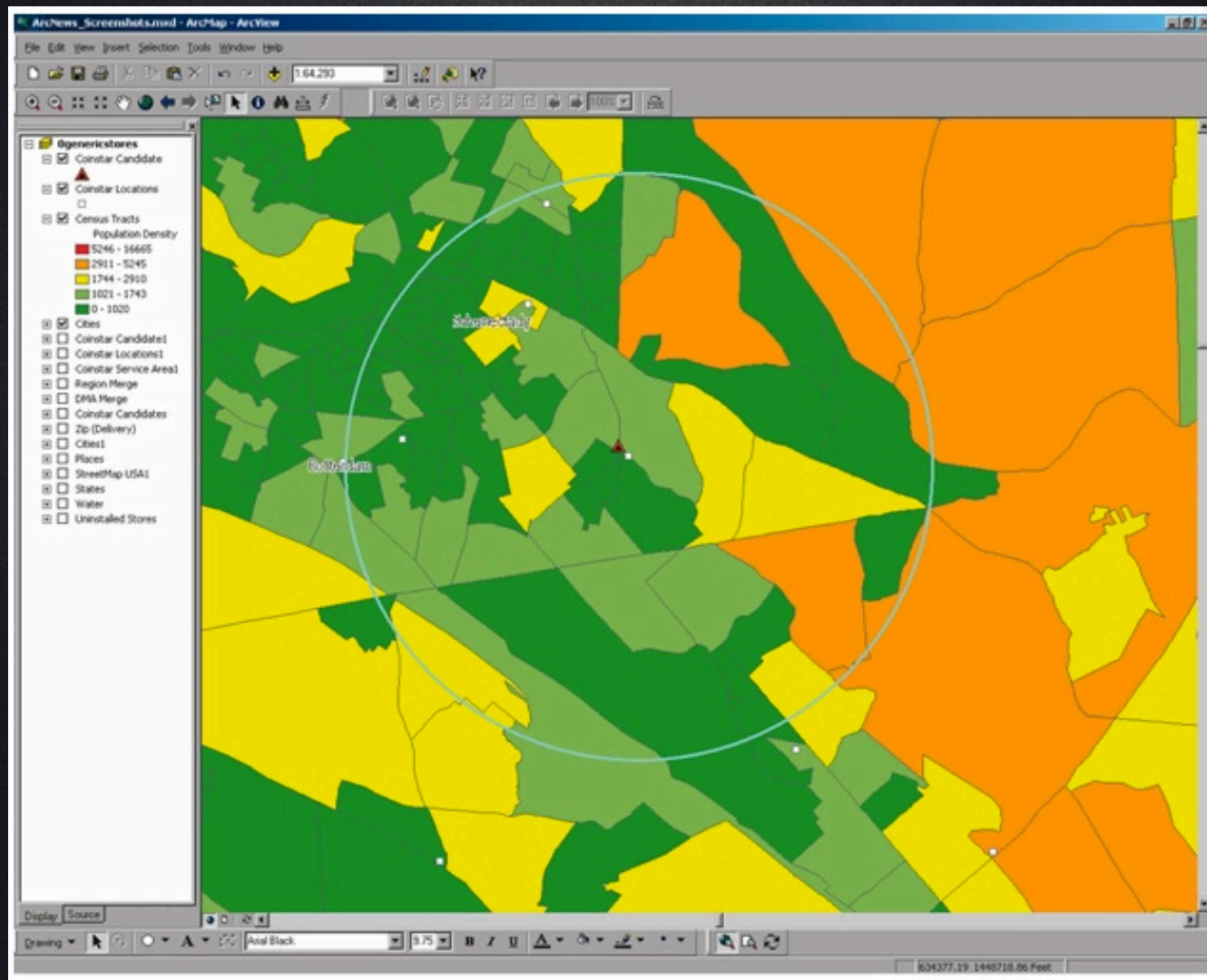
Japan's 2011 Disasters

# Learning GIS

- University workshops, tutorials and courses
- Overview at [giscommons.org](http://giscommons.org)
- Online tutorials (e.g. [gis.harvard.edu](http://gis.harvard.edu))
- [qgis.org/wiki/How\\_do\\_I\\_do\\_that\\_in\\_QGIS](http://qgis.org/wiki/How_do_I_do_that_in_QGIS)



# ArcGIS



# Installing QGIS

- Mac (Snow Leopard and Lion) :  
[kyngchaos.com/software/qgis](http://kyngchaos.com/software/qgis)
- Download and Install GDAL
- Download and Install GSL
- Download and Install QGIS (1.7.1)
- Linux :
  - Find your distro at:  
[qgis.org/wiki/Download#Linux](http://qgis.org/wiki/Download#Linux)
- Windows :
  - Standalone installer:  
[qgis.org/wiki/Download#Windows](http://qgis.org/wiki/Download#Windows)

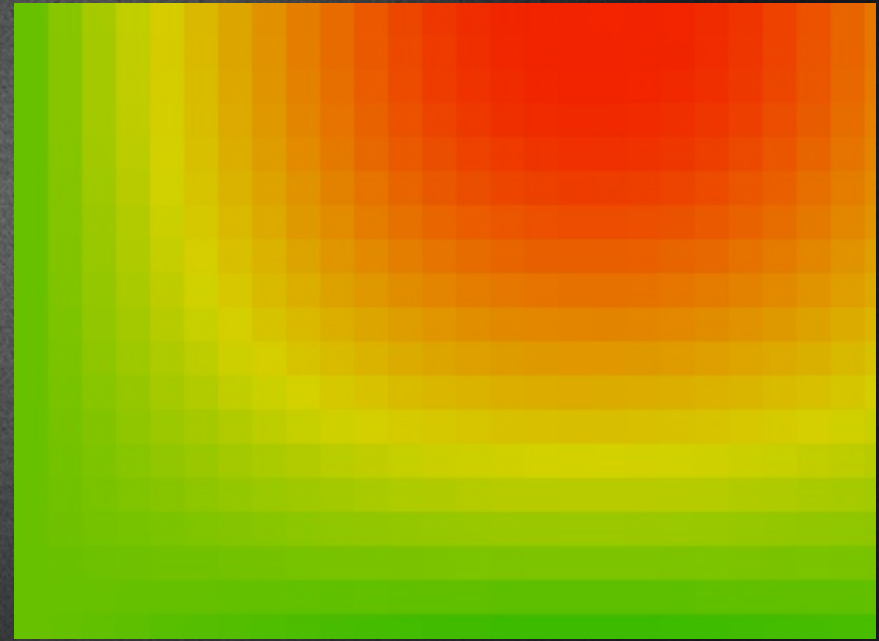
# Finding Maps/Data

- Google: {what you are looking for} shapefile
- The {Your country of interest} National Geographic Information Authority
- [geocommons.com](http://geocommons.com)
- [nhgis.org](http://nhgis.org)
- [nationalmap.gov](http://nationalmap.gov)
- [geo.data.gov](http://geo.data.gov)
- [data.geocomm.com](http://data.geocomm.com)
- Various hosts of OpenStreetMap data e.g. [download.geofabrik.de/osm/](http://download.geofabrik.de/osm/)

# Vector and Raster Data

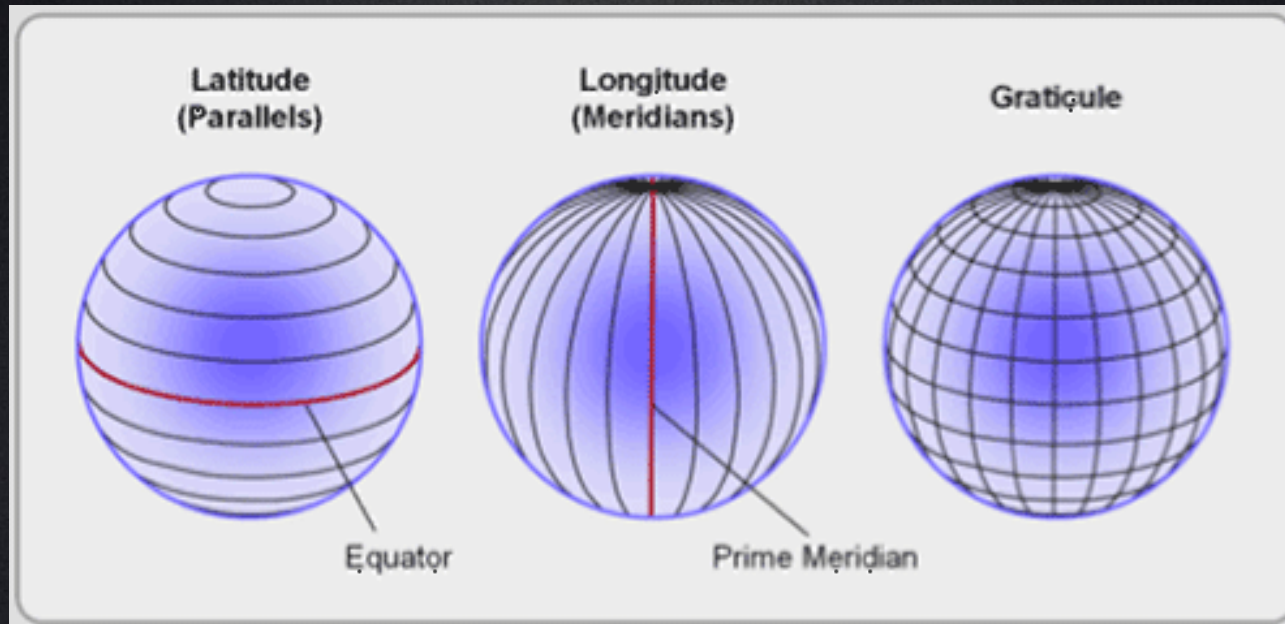


Points, Lines, Polygons



Raster Data

(image from GIScommons.org)



Longitude: It is a long way from the South Pole to the North Pole.

Decimal Format:

42.369547,  
-71.257979

Negative = West and South

Time Format (Degrees, Minutes,  
Seconds):

42° 22' 10.3686" N,  
71° 15' 28.7244" W

# Not Covered:

- Projections and Coordinate Systems or, why your map looks weird and some layers don't fit
- Georeferencing or, adding your own new stuff
- Attribute Queries or, selecting and showing only some of your stuff
- Geolocating data or, turning your boring table of information into an awesome map
- Analysis or, getting your map to talk to you

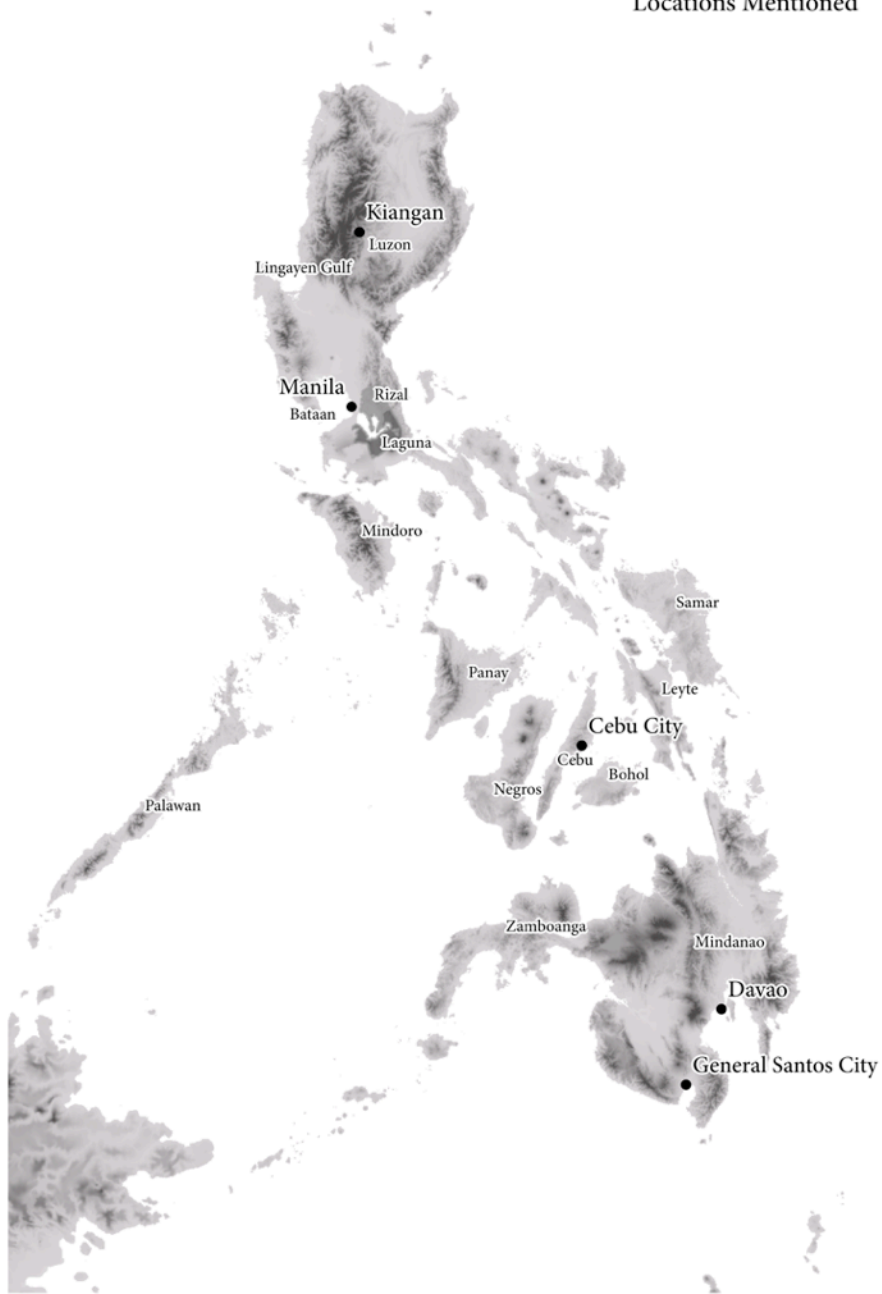
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Map 1: The Philippines,  
Locations Mentioned



Map 2: Philippine Supreme Court  
Rulings on Treason  
Cases by Province

