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from mpl_toolkits.basemap import Basemap

import numpy as np
import matplotlib.pyplot as plt

# Set iPython to display visualization inline

import pylab
import pandas as pd

%matplotlib inline

df = pd.read_csv("path/detector_lane_inventory.tsv",
na_values=['-'],          sep = '\t'
)
min_long = min(df['longitude'])
max_long = max(df['longitude'])
min_lat = min(df['latitude'])
max_lat = max(df['latitude'])
mean_long = np.mean(df['longitude'])
mean_lat = np.mean(df['latitude'])
min_long = min_long - 0.10
max_long = max_long + 0.10
min_lat = min_lat - 0.10
max_lat = max_lat + 0.10

# Create a figure of size (i.e. pretty big)
fig = plt.figure(figsize=(20,10))

# Create a map, using the Gall–Peters projection,
map = Basemap(projection='mill',
              # with low resolution,
              resolution = 'h',
              # And threshold 100000
              area_thresh = 100000.0, #
              # Centered at mean
              epsg=4269,
              llcrnrlon=min_long, llcrnrlat=min_lat,
              urcrnrlon=max_long, urcrnrlat=max_lat,
              lat_0=mean_lat, lon_0=mean_long)

# Draw the coastlines on the map
#map.drawcoastlines()

# Draw country borders on the map
#map.drawcountries()

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# Fill the land with grey
#map.fillcontinents(color = '#888888')

# Draw the map boundaries
#map.drawmapboundary(fill_color='#f4f4f4')

# Define our longitude and latitude points
# We have to use .values because of a wierd bug when passing pandas data #
to basemap.
x,y = map(df['longitude'].values, df['latitude'].values)

# Plot them using round markers of size 6 map.plot(x,
y, 'ro', markersize=6)
#map.shadedrelief() map.drawcountries()
map.drawcoastlines()

# Show the map
map.arcgisimage(service='ESRI_StreetMap_World_2D', verbose=True) plt.show()

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