



ForBio course: Introduction to GPS and GIS

Oct 13, 2014 - Oct 14, 2014, Natural History Museum, University of Oslo

Exercise 3: Open Street Map

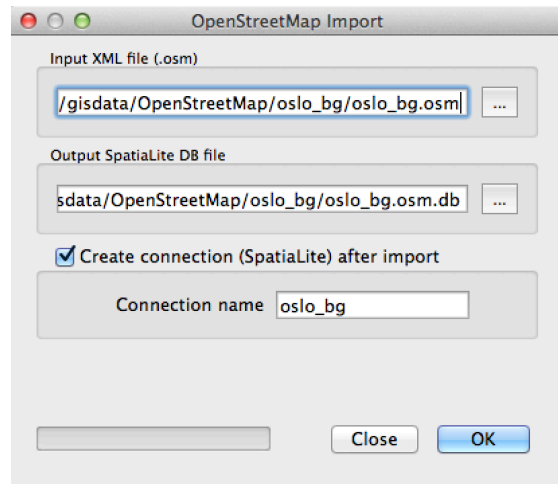
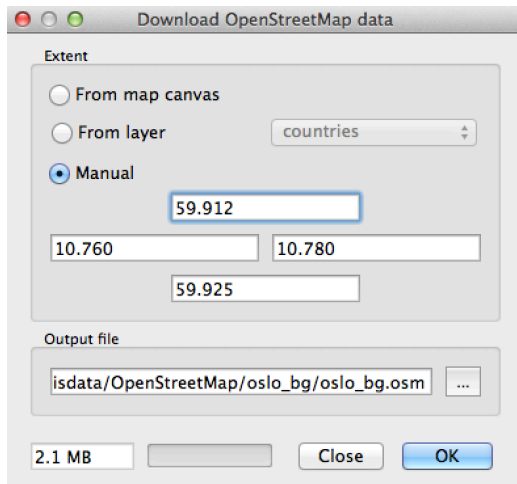
In this exercise you will work with the GPS coordinates you collected in exercise 1 yesterday to plot on a map using QGIS and data from Open Street Map (OSM).

- 1) Plot point coordinates for the benches using QGIS.
- 2) Download and load Open Street Map as background map.
- 3) Make a map including title, legend and scale-bar.

[1] Load all of the point data for the waypoints for the jubilee benches from exercise 1 yesterday to QGIS. You may want to combine all the points from all groups and color by the location identifier.

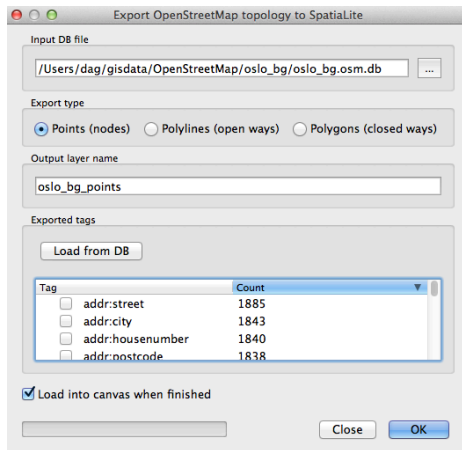
[2] Download vector data from Open Street Map for the neighborhood around the botanical garden. You may e.g. use the bounding box: xmin = 10.760, xmax = 10.780, ymin=59.912, ymax=59.925. Use this vector data as background for your map.

[3] Use the map composer in QGIS to make a final map with a title, legend and scale-bar.



[1] QGIS toolbox for download of Open Street Map (OSM) data.

[2] QGIS toolbox for importing downloaded OSM data Spatial Lite DB.



[3] QGIS toolbox for importing Spatial Lite DB to QGIS. NB! Repeat for points, polylines and polygons. Use “Load from DB” button between each type.

[4] Example of result, OSM data imported and displayed in QGIS.

Tips: Your GPS coordinate data are probably in CRS = unprojected WGS84 (epsg: 4326). Rendering the map as unprojected WGS84 will cause severe distortions for locations on high latitudes such as Norway. The scale-bar will also make little sense for this rendering. Oslo is in UTM zone 32V (epsg: 32632) and rendering your map in this CRS will cause much less distortions.