Intro to Spatial Data Analysis with R. SCGIS 2023 Annual Conference

Data for Exercises

The following data are available in the workshop folder under `exercises/data`. You can download just the data files here.

Yosemite Data

yose_boundary.shp

- Yosemite National Park Boundary
- Source: https://irma.nps.gov/DataStore/Reference/Profile/2180706
- ▶ import code

yose_firehistory.gdb

- Fire History for Yosemite National Park, 1930-2016
- Layers: *YNP_FireHistoryPoints, YNP_FireHistoryPolys*
- Source: https://irma.nps.gov/DataStore/Reference/Profile/2188901
- ▶ import code

yose_communications.gdb

- Yosemite Communications Infrastructure
- Layers: *Cell_Towers, Radio_Repeaters*
- Source: https://irma.nps.gov/DataStore/Reference/Profile/2170445
- ▶ import code

yose_roads.gdb

- A geodatabase of all the roads within the Yosemite area. Includes paved and unpaved roads. Roads are categorized by type and access.
- Layers: *Yosemite_Roads*
- Source: https://irma.nps.gov/DataStore/Reference/Profile/2180725
- ▶ import code

yose_trails.gdb

- Trails system for Yosemite National Park
- Layers: *Trails, Trailheads, Winter_trails*
- Source: https://irma.nps.gov/DataStore/Reference/Profile/2180706
- ▶ import code

yose_poi.shp

- Points of Interest (POIs) in Yosemite National Park
- Source: https://irma.nps.gov/DataStore/Reference/Profile/2225064
- ▶ import code

yosemite_missing_people.csv

- Lost person incident data from years 2000 to 2010 for Yosemite National Park
- Source: https://hub.arcgis.com/datasets/pjdohertymaps::missing
- ▶ import code

yose_historic_pts.kml

- National Register of Historic Places for Yosemite National Park
- Source: https://irma.nps.gov/DataStore/Reference/Profile/2190361
- ▶ import code

veg37.shp

- Weislander 1937 Yosemite vegetation map
- Source: https://irma.nps.gov/DataStore/Reference/Profile/1047792
- see *veg37_alliances.dbf* for legend (~30 classes)
- ▶ import code

yose_hydrology.gdb

- A geodatabase of hydrological features for Yosemite National Park, including rivers and streams, lakes and ponds, reservoirs, springs and seeps, and locations of stream gauges and water quality monitoring sites in the park.
- Layers: *Rivers, Springs, Waterbodies, Water_Data_Stations, Lakes_Marshes, Gaging_Stations*
- Source: https://irma.nps.gov/DataStore/Reference/Profile/2170437

yose_watersheds.gpkg

- CALWATER 2.2.1 - HUC 8 watersheds and planning unit watershed boundaries
- Source: https://frap.fire.ca.gov/mapping/gis-data/
- Metadata: https://map.dfg.ca.gov/metadata/calw221_polygon_20131205_wm.html
- ▶ import code

srtm_13_05.tif

- DEM for a 5-degree tile enclosing Yosemite National park
- Source: Consortium for Spatial Information (CGIAR-CSI) (downloaded using `raster::getData()`)
- ▶ import code

yose_l8_20180822_b2345.tif

- Landsat 8 Image from Aug 22, 2018. Bands 2-5
- Source: https://earthexplorer.usgs.gov/
- Metadata: https://www.usgs.gov/land-resources/nli/landsat/landsat-8

San Francsico

sf_citybnd.geojson

- San Francisco Boundary (excluding Treasure Island)
- Source: https://datasf.org
  - ▶ import code

sf_nb.geojson

- San Francisco Neighborhoods
- Source: https://datasf.org
  - ▶ import code

sf_sup-dists-2022

- San Francisco Supervisor Districts (2022)
- Source: https://datasf.org
  - ▶ import code

sf_schools.shp

- San Francisco Schools
- Source: https://datasf.org
  - ▶ import code

sf_311_strt-sdwk-cln_2021.gpkg

- San Francisco 311 Calls for Street and Sidewalk Cleaning (2021)
- Source: https://datasf.org
  - ▶ import code

sf_libraries.csv & sf_libraries_longlat.csv

- Addresses of public libraries in San Francisco
- Source: https://datasf.org
  - ▶ import code

sf_cannabis_2014.kml

- San Francisco Permitted Medical Cannabis Dispensaries (2014)
- Source: https://datasf.org
  - ▶ import code

California

ca_counties.geojson

- County Boundaries in California
- Source: US Census Bureau
  - ▶ import code

ca_breweries.csv

- Addresses of breweries in California