

# Spatial Data: Creating Polygons

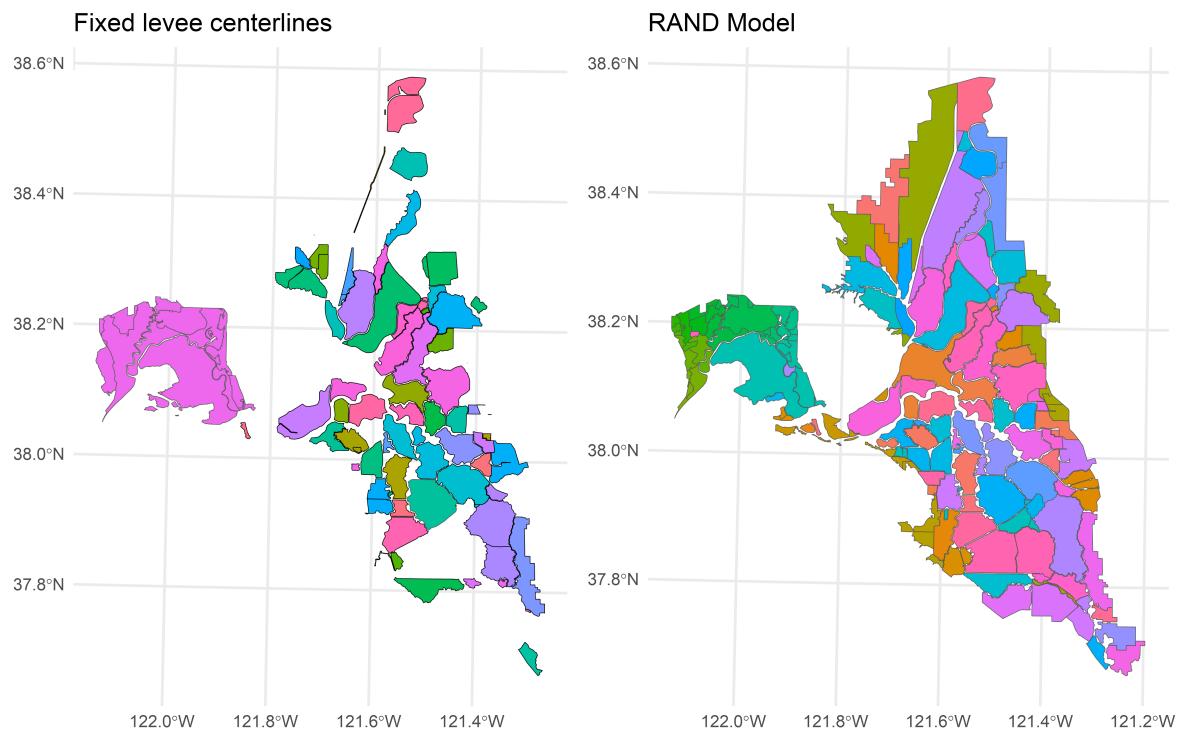
TXN

October 18, 2023

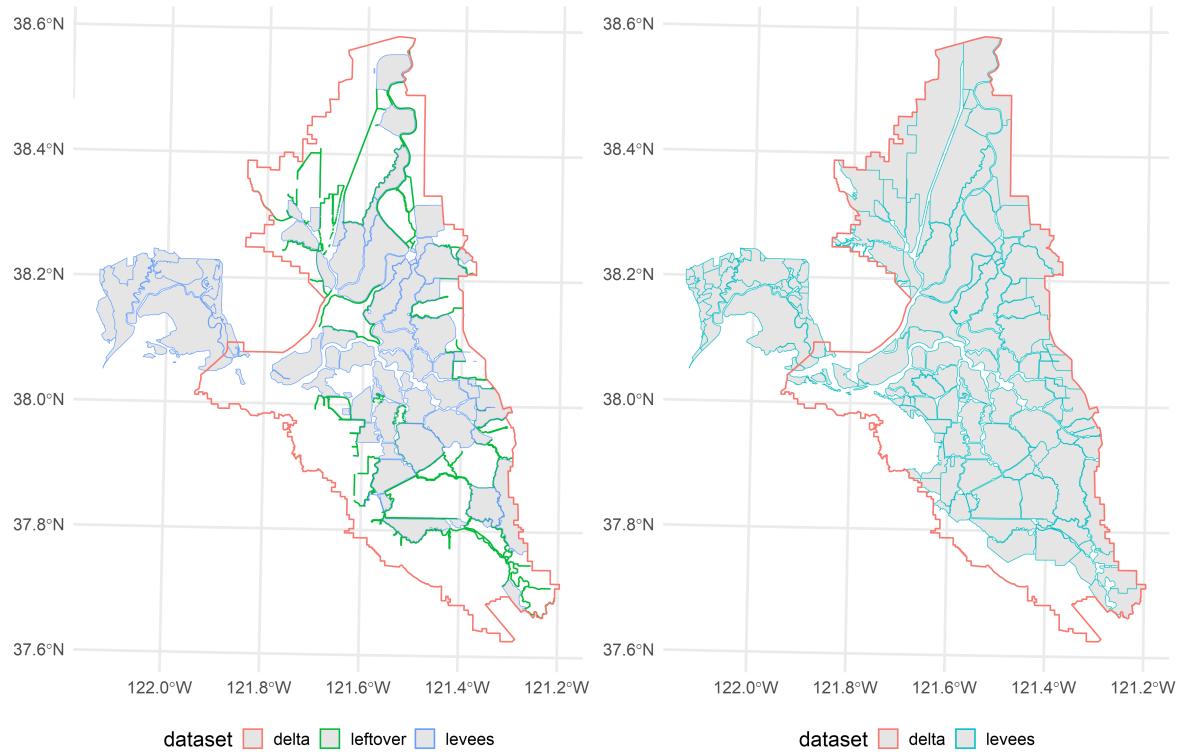
## Purpose

This document contains various illustrations of the leveed area polygons, fixed programmatically.

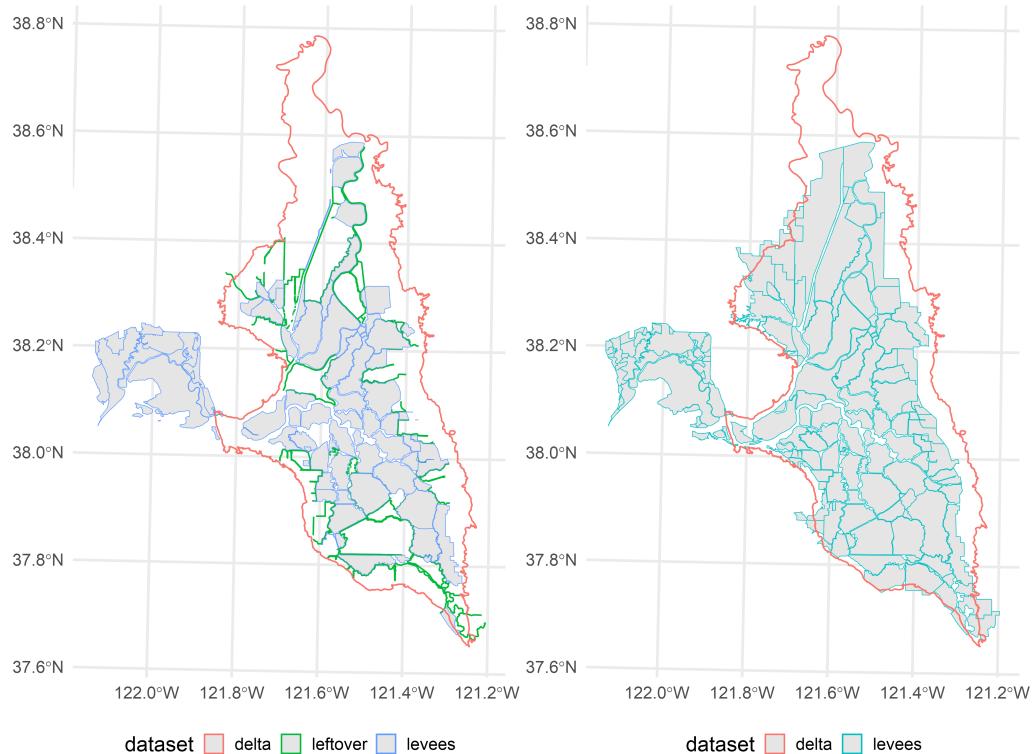
## Fixed levee polygons vs RAND



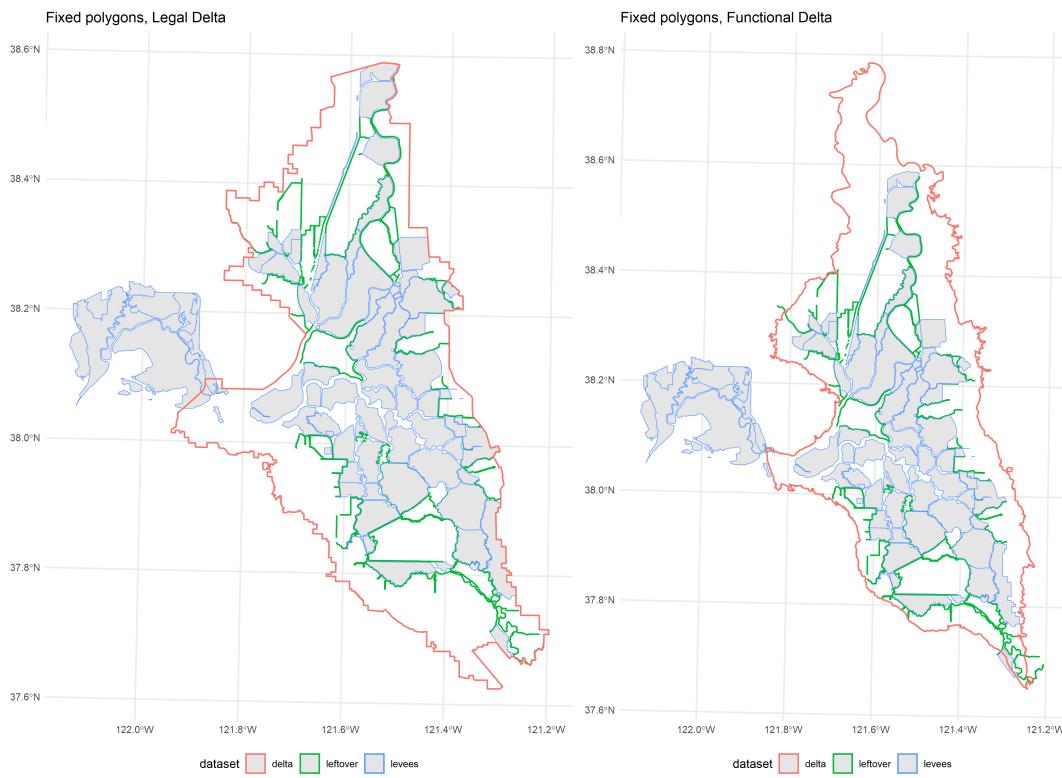
## Fixed levee polygons and RAND against Legal Delta



## Fixed levee polygons and RAND against functional Delta



## Fixed levee polygons against Legal and functional Delta



## Polygons from saved RData file vs shape file

```
Reading layer `fixedLevees' from data source
`C:\Users\TXNguyen\Documents\GitHub\swg-23-infrastructure\data\shapefiles\fixedLevees\fixedLevees.shp'
  using driver `ESRI Shapefile'
replacing null geometries with empty geometries
Simple feature collection with 139 features and 1 field (with 69 geometries empty)
Geometry type: GEOMETRY
Dimension:      XY
Bounding box:  xmin: -187564.9 ymin: -37485.71 xmax: -110965.1 ymax: 64695.56
Projected CRS: NAD83 / California Albers
```

