Stand-replacing Decay Coefficient (SDC) App

The current application is a beta release and may not work for large files. The user must generate a multipart shapefile with a set of polygons representing the stand-replacing or high-severity burned area of interest. The shapefile must be in a metric projection. Uploading the shapefile will generate a plot of the area, and clicking 'run' will calculate SDC and display the SDC of the shapefile in question against 477 fires in California that burned from 1984-2015.

Citations for this application:

Collins, B.M., Stevens, J.T., Miller, J.D., Stephens, S.L., Brown, P.M., North, M.P., 2017. Alternative characterization of forest fire regimes: incorporating spatial patterns. Landscape Ecology 32, 1543-1552.

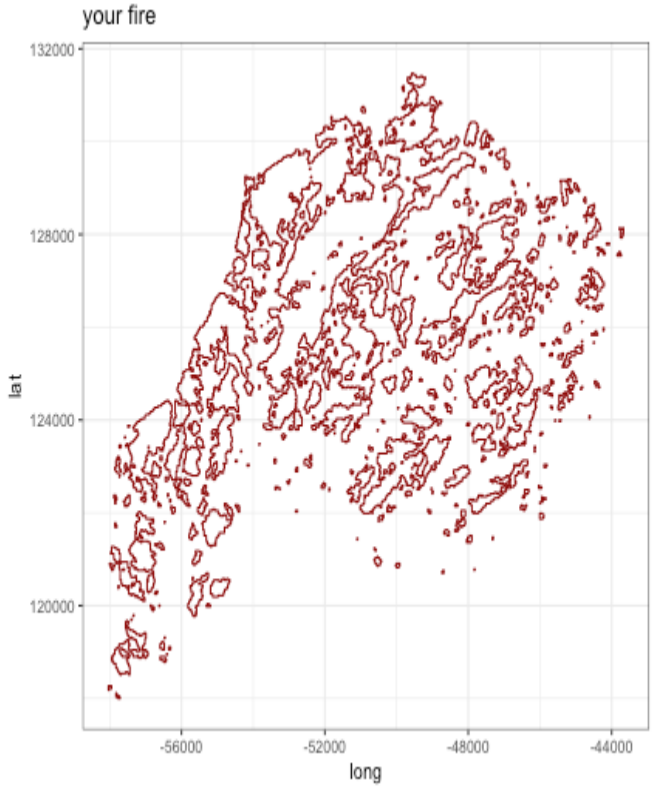
Stevens, J. T., B. M. Collins, J. D. Miller, M. P. North, and S. L. Stephens. 2017. Changing spatial patterns of stand-replacing fire in California conifer forests. Forest Ecology and Management 406:28-36.

Contact Jens Stevens [stevensjt <at> berkeley.edu] with questions

Input shapefile and accompanying extensions (minimum .shp, .dbf, .prj and .shx)

Browse... 4 files

Upload complete



Internal buffer distance interval, in m

100

Run

Only click -Run- once; may take some time for large files

your sdc = 0.0045 ln(sdc) = -5.4037