Corridors of Ouro Preto

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```
# Set up

# Clean everything before beginning

rm(list = ls())

# Data folder
corrdir <- '/home/leecb/Documentos/Academico/artigos/ms_Pena_etal_corredores_OuroPreto/corridors/simula
stdir <- '/home/leecb/Documentos/Academico/artigos/ms_Pena_etal_corredores_OuroPreto/corridors/input/Ras
mapdir <- '/home/leecb/Documentos/Academico/artigos/ms_Pena_etal_corredores_OuroPreto/corridors/input/SI
```

```
# Load data
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Loadind data

Reading and plotting the data

```
setwd(corrdir)

# Corridors without urban zone
files <- list.files('corredores_sem_zona/', pattern = 'RSFI.tif', include.dirs = T)
files_tif <- files[endsWith(files, '.tif')]

corridors_no_zone <- list()
for(i in 1:length(files_tif)) {
  corridors_no_zone[[i]] <- raster(paste0('corredores_sem_zona/', files_tif[i]))
}
# plot(corridors_no_zone[[1]])
# plot(corridors_no_zone[[3]])

# Corridors with urban zone
files <- list.files('corredores_com_zona_2018_04_d09/', pattern = 'RSFI.tif',
                    include.dirs = T)
files_tif <- files[endsWith(files, '.tif')]

corridors_zone <- list()
for(i in 1:length(files_tif)) {
  corridors_zone[[i]] <- raster(paste0('corredores_com_zona_2018_04_d09/', files_tif[i]))
}
# plot(corridors_zone[[1]])
# plot(corridors_zone[[3]])

# Source fragments
setwd(stdir)

ST.map <- raster('Fragmentos_fonte2.tif')
```

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plot(ST.map, legend = F, col = grey(0.75), colNA = 1)
plot(corridors_zone[[1]], add = T, col = rev(heat.colors(20)))
```
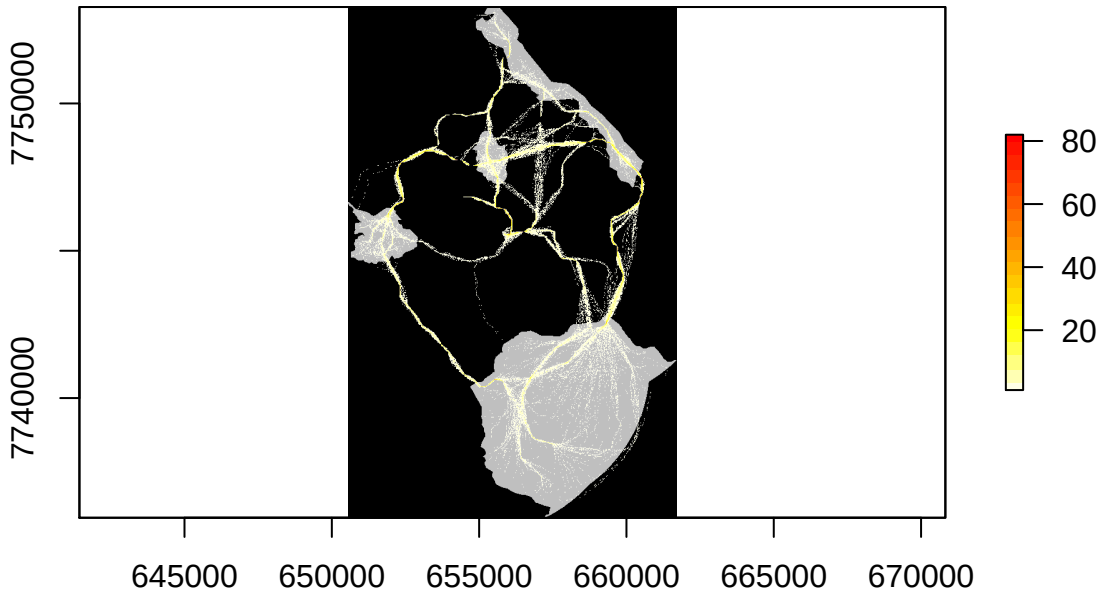
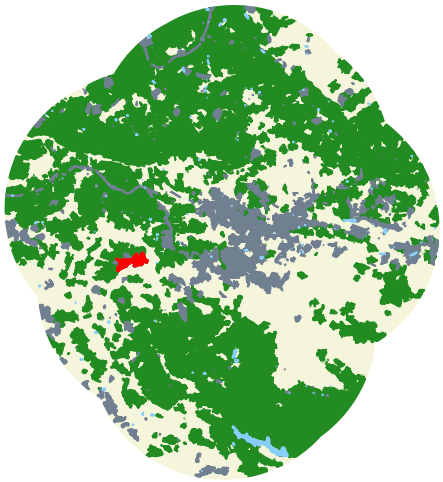




```
# Land use
setwd(mapdir)

land.use.map <- readOGR('.', 'Classe_uso_solo')
cols = c('LightSkyBlue', 'beige', 'forestgreen', 'red', 'SlateGray')[land.use.map$Classe]
plot(land.use.map, col = cols, border = cols)
```



```
# Urban zones
urban.zone.map <- readOGR('.', 'Zoneamento_completo')
cols = grey.colors(length(levels(urban.zone.map$Layer)))[urban.zone.map$Layer]
plot(urban.zone.map, col = cols, border = cols)
```