R documentation

of 'extractNightLights.Rd'

April 10, 2016

extractNightLights

Extract Night Lights data from regions in a shapefile

Description

Extract NOAA night lights data for regions in a SpatialPolygonsDataFrame. For years with two different satellite readings, it first takes the average between the two years.

Usage

```
extractNightLights(nl.dir = ".", shp, stats = c("sum"))
```

Arguments

nl.dir	The directory the night lights data is stored in. Default is the current directory.
shp	The SpatialPolygonsDataFrame to extract data from.
stats	A vector of functions to apply to the data within each region, for example
	c("sum", "mean", "sd"). The default is "sum".

Examples

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```
# By default, the function gets the sum of night lights within the regions:
nl.sums <- extractNightLights(nl.dir, shp)</pre>
```

You can specificy other statistics to get, e.g. the mean & standard deviation: $nl.mean.sd \leftarrow extractNightLights(nl.dir, shp, stats = c("mean", "sd"))$

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