

Package ‘SeerMapperRegs’

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Type Package

Version 1.2.0

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Title Supplemental U. S. 2000 Census Tract Boundary for 15 States with
Seer Registries for 'SeerMapper'

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Depends R (>= 3.2.0)

Imports sp

Suggests

Description Provides supplemental 2000 census tract boundaries for the 15 states
containing Seer Registries for use with the 'SeerMapper' package.
The data contained in this
package is derived from U. S. Census data and is in the public domain.

License GPL (>= 2)

LazyData no

LazyLoad no

BuildResaveData yes

ByteCompile yes

NeedsCompilation no

Repository CRAN

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SeerMapperRegs-package

SeerMapper-Supplemental 2000 Census Tract boundary datasets for 15 states with Seer Registries

Description

The *SeerMapperRegs* package provides 2000 Census Tract boundary datasets for 15 states containing Seer Registries for use with *SeerMapper* package.

The *SeerMapperWest* data only package contains the 2000 census tract boundary dataset for 14 states west of the Mississippi river that do not contain NCI Seer Registries. The *SeerMapperEast* data only package contains the 2000 census tract boundary datasets for 21 states, District of Columbia and Puerto Rico that do not have Seer Registries and are east of the Mississippi river.

By loading these packages (via the library function) expands the *SeerMapper* package abilities to map 2000 census tract level data in any of the 50 states, the District of Columbia and Puerto Rico.

Details

Package:	SeerMapperRegs
Type:	Package
Version:	1.2.0
Date:	2017-04-10
License:	GPL-2
LazyLoad:	no

No special action is required by the user to install this package or load it when running *SeerMapper*. The defined interdependencies of the packages automatically install the supplemental 2000 census tract boundary packages when *SeerMapper* is install. When *SeerMapper* is called, if it determines that one or more supplemental packages need to be loaded, it initiates the loading for the caller.

```
library(SeerMapper)

rateData <- data.frame(FIBS=stateFibs,
                      Rate=stateRateVector,
                      pValue=stateRatePValue)

SeerMapper(rateData, Title=c("Test Map"))
```

If the package attachment or dataset load fails, the caller is notified of the problem and mapping is terminated.

The *SeerMapperRegs* package contains the 2000 census tract boundary dataset for:

FIPS	Name	# of Registries
------	------	-----------------

02	Alaska	1
04	Arizona	1
06	California	4
09	Connecticut	1
13	Georgia	3
15	Hawaii	1
19	Iowa	1
21	Kentucky	1
22	Louisiana	1
26	Michigan	1
34	New Jersey	1
35	New Mexico	1
40	Oklahoma	1
49	Utah	1
53	Washington	1

The *SeerMapperEast* package contains the 2000 census tract boundary dataset for:

FIPS	Name
01	Alabama
10	Delaware
11	District of Columbia
12	Florida
17	Illinois
18	Indiana
23	Maine
24	Maryland
25	Massachusetts
28	Mississippi
33	New Hampshire
36	New York
37	North Carolina
39	Ohio
42	Pennsylvania
44	Rhode Island
45	South Carolina
47	Tennessee
50	Vermont
51	Virginia
54	West Virginia
55	Wisconsin
72	Puerto Rico

The *SeerMapperWest* package contains the 2000 census tract boundary dataset for:

FIPS	Name
08	Colorado
16	Idaho

20	Kansas
17	Illinois
18	Indiana
30	Montana
38	North Dakota
31	Nebraska
32	Nevada
39	Ohio
41	Oregon
46	South Dakota
48	Texas
55	Wisconsin
56	Wyoming

Author(s)

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Package compiled by "Jim Pearson" <jpearson@statnetconsulting.com>

trXX_dXX

Provides the U.S. 2000 Census Tract Boundary datasets for 15 States that have Seer Registries.

Description

There are six supplemental census tract boundary packages for use with *SeerMapper*. The are *SeerMapperRegs*, *SeerMapperEast*, *SeerMapperWest* for the 2000 census and *Seer2010MapperRegs*, *Seer2010MapperEast* and *SeerMapper2010West* for the 2010 census. The combination of the either three provide a set of census tract boundaries for one U. S. census year (either 2000 or 2010). The *SeerMapperRegs* and *Seer2010MapperRegs* packages contains the census tract boundaries for the 15 states the have U. S. Seer Registries. The remaining census tract boundaries are split into two packages for each census year based on whether the state is east or west of the Mississippi river. The census tracts for 23 states without registries east of the Mississippi river at contained in the *SeerMapperEast* and *Seer2010MapperEast* packages. The tract boundaries for the 14 states west of the Mississippi river are in the *SeerMapperWest* and *Seer2010MapperWest* packages. The states include the District of Columbia and Puerto Rico. This package contains the 2010 census tract boundaries for the 15 states with Seer Registries.

Usage

```
data(tr02_d00)
```

Format

Each file contains a set of SpatialPolygons structures for the 15 states with Seer Registries. Each state structure is a list of the census tracts boundaries that the state. Refer to the documentation on the *sp* package for details on the structures. Each list element is a "polygons" class structure containing attributes of the census tract (label point, area, ID, etc.) and a list of "Polygons" class elements that define the boundary polygons.

Details

The *SeerMapperRegs* and *SeerMapper2010Regs* packages contains 15 states with Seer Registries including:

FIPS	Name
02	Alaska
04	Arizona
06	California
09	Connecticut
13	Georgia
15	Hawaii
19	Iowa
21	Kentucky
22	Louisiana
26	Michigan
34	New Jersey
35	New Mexico
40	Oklahoma
49	Utah
53	Washington

The *SeerMapper* package contains the state and county boundary data for all 51 states and DC and the Seer Registry boundary data for the 20 established registries. Due to space limitations, the base packages cannot contain the census tract boundary data.

Three supplemental data packages are used for each census year to provide the census tract boundary data to *SeerMapper* package.

Each state ".rda" file (dataset) contains state's census tract boundary data. The file name structure is trXX_dYY, where tr identifies the file as census tract boundary data, "XX" is the state (2 digits) fips code and "YY" represents the census year (e.g., 00 = 2000 or 10 for 2010)

To conserve disk space and downloading/installation time, the rda files are compressed using the "xy" method.

The U. S. Census Bureau census tract boundary shape file data was pre-processed by "www.MapShaper.org" website version 01.15 using modified Visvalingam method with the intersection repair and prevent shape removal options enabled, the coordinate precision value set to 0.0 and the simplify parameter set to 10 This reduces the space requirements by 85 reasonable boundary image and edge alignments.

When the *SeerMapper* package is install, the six (6) census tract boundary supplement packages are also install automatically by R. The *SeerMapper* package then manages the loading of the packages to ensure the needed boundary files are available.

Source

The census tract boundary shapefiles were downloaded from the CENSUS.GOV web site for the 2000 Census census tract boundary shapefiles, URL www.census.gov.

Examples

```
#
# These examples are a test to ensure each census tract file
# can be read and a plot of the state generated.
#
stList <- c("02","04","06","09","13",
            "15","19","21","22","26",
            "34","35","40","49","53")
stName <- c("Alaska","Arizona","California","Connecticut","Georgia",
            "Hawaii","Iowa","Kentucky","Louisiana","Michigan",
            "New Jersey","New Mexico","Oklahoma","Utah","Washington")
cY      <- "00"
require("sp")

pdf("SeerMapperRegs00-Test-Res.pdf",width=7,height=10)

for (stN in seq(from=1, to=length(stList), by=6)) {

  stID <- stList[stN]
  stNa <- stName[stN]
  trFN <- paste0("tr",stID,"_d",cY)
  TT_tr <- paste0("U. S. Census Tracts - ",stNa," Fips=",stID," file=",trFN)

  data(list=trFN)

  wrSP <- get(trFN)
  str(wrSP)

  plot(wrSP,main=TT_tr)
  rm(list=trFN)
}

dev.off()
```

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