Package 'geomapdata'

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Type Package

Title Data for Topographic and Geologic Mapping

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Suggests GEOmap

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Description Data sets included here are for use with package GEOmap. These include world map, USA map, Coso map, Japan Map.

License GPL

NeedsCompilation no

Depends R (>= 2.10)

Repository CRAN

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Contents

geomapdata-package *geomapdata*

Description

Topographic and Geologic Mapping

Details

Set of data for making Maps, Topographic Maps, Perspective plots, geological databases. These include: africa.bdy africa.cil africa.riv asia.bdy asia.cil asia.riv cosogeol cosomap ETOPO5 europe.bdy europe.cil europe.riv faults fujitopo hiways japmap kamaleutmap kammap meijimap namer.bdy namer.cil namer.pby namer.riv owens samer.bdy samer.cil samer.riv usacity USAmap worldcity worldmap

Author(s)

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References

Lees, J. M., Geotouch: Software for Three and Four Dimensional GIS in the Earth Sciences, Computers & Geosciences, 26, 7, 751-761, 2000.

See Also

GEOmap

Examples

```
data(worldmap)
```

cosomap *Coso Geothermal Region Faults and Geology*

Description

Coso Geothermal Region Faults and Geology

Usage

```
data(cosomap)
```

Format

List structure:

STROKES list(nam, num, index, col, style, code, LAT1, LAT2, LON1, LON2)

POINTS list(lat, lon)

PROJ list(type, LAT0, LON0, LAT1, LAT2, LATS, LONS, DLAT, DLON, FE, FN, name)

Details

Details from Tomographic inversion geographic base map.

References

Lees, J. M., Geotouch: Software for Three and Four Dimensional GIS in the Earth Sciences, Computers & Geosciences, 26, 7, 751-761, 2000.

Examples

```
data(cosomap)
data(faults)
data(hiways)
data(owens)

##
## Not run:
proj = cosomap$PROJ
plotGEOmapXY(cosomap, PROJ=proj,  add=FALSE, ann=FALSE, axes=FALSE)
plotGEOmapXY(hiways, PROJ=proj,  add=TRUE, ann=FALSE, axes=FALSE)
plotGEOmapXY(owens, PROJ=proj,  add=TRUE, ann=FALSE, axes=FALSE)
plotGEOmapXY(faults, PROJ=proj,  add=TRUE, ann=FALSE, axes=FALSE)

## End(Not run)
```

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fujitopo *Topographic DEM of Japan*

Description

Topography in Japan

Usage

```
data(fujitopo)
```

Format

lat latitude

lon longitude

z elevation

Details

This data comes as triplets of LAT-LON-Z

Source

Japan Meteriological Society

Examples

```
data(fujitopo)
names(fujitopo)
## project to  to x-y and plot
```

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kammap *Maps in GEOmap*

Description

Maps of Kamchatka, Kamchatka and Aleutians, Meiji Seamounts, Japan

Usage

```
data(kammap)
```

Format

List structure:

STROKES list(nam, num, index, col, style, code, LAT1, LAT2, LON1, LON2)

POINTS list(lat, lon)

PROJ list(type, LAT0, LON0, LAT1, LAT2, LATS, LONS, DLAT, DLON, FE, FN, name)

Details

Boundary of Kamchatka, Aleutians and Meiji Seamounts.

Examples

```
data(kammap)
## maybe str(kammap) ; plot(kammap) ...
```

usacity *City Locations and Populations(USA)*

Description

point data set showing cities locations and populations.

Usage

```
data(usacity)
```

Format

name name of city

lat latitude

lon longitude

p population

Details

World cities have no population (yet).

Examples

```
data(usacity)
## maybe str(usacity) ; plot(usacity) ...
```

worldmap *Global Maps*

Description

Global Maps of World and details of U.S.

Usage

```
data(worldmap)
```

Format

List structure:

STROKES list(nam, num, index, col, style, code, LAT1, LAT2, LON1, LON2)

POINTS list(lat, lon)

PROJ list(type, LAT0, LON0, LAT1, LAT2, LATS, LONS, DLAT, DLON, FE, FN, name)

Details

USAmap includes world as well as USA.

Examples

```
data(worldmap)
## maybe str(worldmap) ; plot(worldmap) ...
```

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