Package 'troopdata'

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Title Tools for Analyzing Cross-National Military Deployment and
Basing Data

Version 0.1.4

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Description These functions generate data frames on troop deployments and military basing using U.S. Department of Defense data on overseas military deployments. This package provides functions for pulling country-year troop deployment and basing data. Subsequent versions will hopefully include cross-national data on deploying countries.

License GPL (>= 3)

Language en-US

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

URL https://github.com/meflynn/troopdata

BugReports https://github.com/meflynn/troopdata/issues

Depends R (>= 3.5.0)

Imports magrittr, dplyr, tibble, rlang

Suggests testthat (>= 3.0.0), spelling, knitr, rmarkdown, viridis,
ggplot2, countrycode, tidyr, stringr, readstata13, haven, maps

Config/testthat/edition 3

NeedsCompilation no

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R topics documented:

troopdata-package	*Tools for Analyzing Cross-National Military Deployment and Basing Data*

Description

Generate customized data frames containing U.S. military deployment data

Details

The `troopdata` package contains functions for generating customized data sets on U.S. military deployment data and U.S. overseas basing data. The data contain country identifiers that can be used to merge these data with other data to analyze trends in the United States' overseas military posture.

Author(s)

Michael E. Flynn <meflynn@ksu.edu>

References

https://m-flynn.com/ https://github.com/meflynn/troopdata

basedata	*Vine's U.S. basing data*

Description

`basedata` returns a data frame containing David Vine's US basing data.

Usage

```
basedata
```

Format

A data frame with country-base observations including the following variables:

countryname A character vector of country names.

ccode A numeric vector of Correlates of War country codes.

iso3c A character vector of ISO three character country codes.

basename Name of the facility.

lat The facility's latitude.

lon The facility's longitude.

base Binary indicator identifying the facility as a major base or not.

lilypad A binary indicator identifying the facility as a lilypad or not. Vine codes lilypads as less than 200 personnel or "other site" designation in Pentagon reports.

fundedsite A binary variable indicating whether or not the facility is a host-state base funded by the US.

Value

Returns the full data frame containing country observations of US military bases from the Cold War period through 2018.

Source

---

builddata	*U.S. Military overseas construction spending data*

Description

`builddata` returns a data frame containing geocoded location-project-year overseas military construction spending data.

Usage

```
builddata
```

Format

A data frame with country-base observations including the following variables:

`countryname` A character vector of country names.

`ccode` A numeric vector of Correlates of War country codes.

`year` Year of observed country-year spending.

`iso3c` A character vector of ISO three character country codes.

`location` Name of the facility where spending occurred, or host country where detailed facility information is unavailable.

`spend_construction` Total obligational authority associated with the observed location-year in thousands of current US dollars.

`lat` The facility's latitude.

`lon` The facility's longitude.

Value

Returns the full data frame containing location-project-year observations of U.S. military construction spending data from 2008-2019.

---

get_basedata *Function to retrieve customized U.S. basing data*

Description

get_basedata() generates a customized data frame containing data obtained from David Vine's U.S. basing data.

Usage

```
get_basedata(host = NA, country_count = FALSE, groupvar = NULL)
```

Arguments

host	The Correlates of War (COW) numeric country code or ISO3C code for the host country or countries in the series
country_count	Logical. Should the function return a country-level count of the total number of bases or the country-site data
groupvar	A character string indicating how country count totals should be generated. Accepted values are 'countryname', 'ccode', or 'iso3c'. Can take on Required when using country_count argument.

Details

Our research team updated these data through 2018.

Value

get_basedata() returns a data frame containing information on U.S. military bases present within selected host countries. This can be customized to include country-base observations or country-count observations.

Author(s)

Michael E. Flynn

References

David Vine. 2015. Base Nation. Metropolitan Books. New York, NY.

Examples

```
## Not run:
library(tidyverse)
library(troopdata)

example <- get_basedata(host = NA)

head(example)


## End(Not run)
```

---

get_builddata   *Function to retrieve customized U.S. construction spending data.*

Description

get_builddata() generates a customized data frame containing location-project-year observations of U.S. military construction and housing spending in thousands of current dollars.

Usage

```
get_builddata(host = NA, startyear, endyear)
```

Arguments

host	The Correlates of War (COW) numeric country code or ISO3C code for the host country or countries in the series
startyear	The first year for the series
endyear	The last year for the series

Value

get_builddata() returns a data frame containing location-project-year observations of U.S. military construction and housing spending in thousands of current dollars.

Author(s)

Michael E. Flynn

References

Michael A. Allen, Michael E. Flynn, and Carla Martinez Machain. 2020. "Outside the wire: US military deployments and public opinion in host states." American Political Science Review. 114(2): 326-341.

Examples

```
## Not run:
library(tidyverse)
library(troopdata)

example <- get_builddata(host = NA, startyear = 2008, endyear = 2019)

head(example)


## End(Not run)
```

---

get_troopdata   *Function to retrieve customized U.S. troop deployment data*

Description

`get_troopdata()` generates a customized data frame containing country-year observations of U.S. military deployments overseas.

Usage

```
get_troopdata(host = NA, branch = FALSE, startyear, endyear)
```

Arguments

host   The Correlates of War (COW) numeric country code or ISO3C code for the host
            country or countries in the series

branch   Logical. Should the function return a single vector containing total troop values
            or multiple vectors containing total values and values for individual branches?
            Default is FALSE.

startyear   The first year for the series

endyear   The last year for the series

Value

`get_troopdata()` returns a data frame containing country-year observations for U.S. troop deployments.

Author(s)

Michael E. Flynn

References

Tim Kane. Global U.S. troop deployment, 1950-2003. Technical Report. Heritage Foundation, Washington, D.C.

Michael A. Allen, Michael E. Flynn, and Carla Martinez Machain. 2021. "Global U.S. military deployment data: 1950-2020." Working Paper.

Examples

```
## Not run:
library(tidyverse)
library(troopdata)

example <- get_troopdata(host = NA, branch = TRUE, startyear = 1980, endyear = 2015)

head(example)


## End(Not run)
```

troopdata | *U.S. overseas troop deployment data*

Description

troopdata returns a data frame containing information on US military deployments.

Usage

troopdata

Format

A data frame with country year observations including the following variables:

countryname A character vector of country names.

ccode A numeric vector of Correlates of War country codes.

iso3c A character vector of ISO three character country codes.

region Correlates of War geographic region name.

year The year of the observation.

troops The total number of US military personnel deployed to the host country.

army Total number of Army personnel deployed to the host country.

navy Total number of Navy personnel deployed to the host country.

air_force Total number of Air Force personnel deployed to the host country.

marine_corps Total number of Marine Corps personnel deployed to the host country.

Value

Returns the full data frame containing country-year observations of US military deployments to overseas locations (countries and territories) from 1950 through 2020.

Source

https://www.heritage.org/defense/report/global-us-troop-deployment-1950-2005

Index