Package ‘troopdata’

October 14, 2022

Title  Tools for Analyzing Cross-National Military Deployment and Basing Data
Version 0.1.5
Maintainer  Michael Flynn <meflynn@ksu.edu>
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
RoxygenNote  7.1.2
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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Repository  CRAN
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R topics documented:

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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


Description

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

Usage

basedata
**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.
- **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**

[https://dra.american.edu/islandora/object/auislandora%3A81234](https://dra.american.edu/islandora/object/auislandora%3A81234)

---

**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.

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**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**

```r
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', 'ecode', 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
**get_builddata**

**References**


**Examples**

```r
## 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
get_troopdata

References

Examples

```r
## 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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>host</td>
<td>The Correlates of War (COW) numeric country code or ISO3C code for the host country or countries in the series</td>
</tr>
<tr>
<td>branch</td>
<td>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.</td>
</tr>
<tr>
<td>startyear</td>
<td>The first year for the series</td>
</tr>
<tr>
<td>endyear</td>
<td>The last year for the series</td>
</tr>
</tbody>
</table>

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

Author(s)
Michael E. Flynn

References


Examples

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

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

head(element)

## 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
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