

Package: lindol (via r-universe)

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Type Package

Title An Interface to the PHIVOLCS Earthquake Bulletins

Version 0.0.0.9001

Description The Philippine Institute of Volcanology and Seismology (PHIVOLCS) maintains the National Earthquake Monitoring and Information which aims to provide accurate and timely information on significant earthquakes and tsunami events that may significantly impact the Philippines and ensures the accessibility and integrity of earthquake data. This package provides an interface to this information with functions that harvests, processes, and structures information from the frequent earthquake bulletins released by PHIVOLCS into machine-readable versions.

License GPL (>= 3)

Depends R (>= 4.2.0)

Imports doParallel, dplyr, foreach, httr, rlang, rvest, stringr, tibble

Suggests spelling, testthat (>= 3.0.0)

Encoding UTF-8

Language en-GB

LazyData true

RoxygenNote 7.3.3

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BugReports <https://github.com/panukatan/lindol/issues>

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eq_build_url	<i>Build URLs for specific PHIVOLCS earthquake bulletin summaries</i>
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Description

Build URLs for specific PHIVOLCS earthquake bulletin summaries

Usage

```
eq_build_url(  
  .url = "https://earthquake.phivolcs.dost.gov.ph/",  
  .year = NULL,  
  .month = NULL  
)
```

Arguments

.url	Base URL for PHIVOLCS earthquake bulletin summaries.
.year	A vector for year (in YYYY format) for which earthquake bulletins are to be retrieved. The earliest year that can be specified is 2018. If set to NULL (default), all years starting from 2018 to present year are used.
.month	A vector for month for which earthquake bulletins are to be retrieved. This can be set as either an integer index (1 for January) or abbreviation (Jan for January) for full name. If set to NULL (default), all months are used.

Value

A vector of URLs based on given .year and .month

Examples

```
eq_build_url()
```

eq_data_summary	<i>Retrieve earthquake information data from PHIVOLCS bulletins</i>
-----------------	---

Description

Retrieve earthquake information data from PHIVOLCS bulletins

Usage

```
eq_data_summary(
  .url = "https://earthquake.phivolcs.dost.gov.ph/",
  .year = NULL,
  .month = NULL,
  latest = TRUE
)

eq_data_bulletin(
  .url = "https://earthquake.phivolcs.dost.gov.ph/",
  .year = NULL,
  .month = NULL,
  latest = TRUE,
  parallel = FALSE,
  cores = 2
)
```

Arguments

.url	Base URL for PHIVOLCS earthquake bulletins.
.year	A vector for year (in YYYY format) for which earthquake bulletins are to be retrieved. The earliest year that can be specified is 2018. If set to NULL (default), all years starting from 2018 to present year are used.
.month	A vector for month for which earthquake bulletins are to be retrieved. This can be set as either an integer index (1 for January) or abbreviation (Jan for January) for full name. If set to NULL (default), all months are used.
latest	Logical. Should the latest table of earthquake information be retrieved? Only evaluated if .year = NULL and .month = NULL. If TRUE (default), table of earthquake information for current year and current month is retrieved. Otherwise, all months for all possible years are retrieved.
parallel	Logical. Should the function use parallelisation? Default to FALSE.
cores	The number of computer cores to use or number of child processes to be run simultaneously. Default to one less than the available number of cores on current machine.

Value

A tibble of processed earthquake data.

Examples

```
eq_data_summary()
```

eq_get_bulletin	<i>Retrieve raw information from PHIVOLCS earthquake information bulletins</i>
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Description

Retrieve raw information from PHIVOLCS earthquake information bulletins

Usage

```
eq_get_bulletin(.url)
eq_get_bulletins(.url)
```

Arguments

.url	A character value or vector of values for PHIVOLCS earthquake information bulletins
------	---

Value

A tibble of earthquake information from PHIVOLCS bulletins

Examples

```
.url <- eq_build_url(.year = 2023, .month = "January")
urls <- eq_get_bulletin_links(.url)
eq_get_bulletins(urls[1:3])
```

eq_get_bulletin_link	<i>Get URLs for detailed PHIVOLCS earthquake information bulletins</i>
----------------------	--

Description

Get URLs for detailed PHIVOLCS earthquake information bulletins

Usage

```
eq_get_bulletin_link(.url)

eq_get_bulletin_links(.url)
```

Arguments

.url	Base URL or monthly URL for PHIVOLCS earthquake bulletins. This is usually produced through a call to eq_build_url().
------	---

Value

A character vector of URLs for detailed PHIVOLCS earthquake information bulletins.

Examples

```
.url <- eq_build_url(.year = 2020, .month = "January")
eq_get_bulletin_links(.url)
```

eq_get_tables	<i>Get earthquake monitoring information from PHIVOLCS earthquake bulletin HTMLs</i>
---------------	--

Description

Get earthquake monitoring information from PHIVOLCS earthquake bulletin HTMLs

Usage

```
eq_get_tables(
  .url = "https://earthquake.phivolcs.dost.gov.ph/",
  .year = NULL,
  .month = NULL,
  latest = TRUE
)

eq_get_table(.url)
```

Arguments

<code>.url</code>	Base URL for PHIVOLCS earthquake bulletins.
<code>.year</code>	A vector for year (in YYYY format) for which earthquake bulletins are to be retrieved. The earliest year that can be specified is 2018. If set to NULL (default), all years starting from 2018 to present year are used.
<code>.month</code>	A vector for month for which earthquake bulletins are to be retrieved. This can be set as either an integer index (1 for January) or abbreviation (Jan for January) for full name. If set to NULL (default), all months are used.
<code>latest</code>	Logical. Should the latest table of earthquake information be retrieved? Only evaluated if <code>.year = NULL</code> and <code>.month = NULL</code> . If TRUE (default), table of earthquake information for current year and current month is retrieved. Otherwise, all months for all possible years are retrieved.

Value

A list of tibble/s of raw earthquake information from PHIVOLCS.

Examples

```
eq_get_tables()
```

`eq_process_bulletins` *Process earthquake information from PHIVOLCS bulletins*

Description

Process earthquake information from PHIVOLCS bulletins

Usage

```
eq_process_bulletins(eq_df)
```

Arguments

<code>eq_df</code>	A tibble of earthquake information from PHIVOLCS bulletins retrieved using <code>eq_get_bulletins()</code> .
--------------------	--

Value

A tibble of processed earthquake information from PHIVOLCS bulletins.

Examples

```
.url <- eq_build_url(.year = 2018, .month = "January")
urls <- eq_get_bulletin_links(.url)
eq_get_bulletins(urls[1:3]) |>
  eq_process_bulletins()
```

eq_process_tables	<i>Process tabular data extracted from bulletins</i>
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Description

Process tabular data extracted from bulletins

Usage

```
eq_process_tables(eq_data_list)
```

```
eq_process_table(eq_data_list)
```

Arguments

`eq_data_list` A list of tibble/s of raw earthquake data extracted from PHIVOLCS earthquake information monitoring HTMLs using `eq_get_table`.

Value

A tibble of processed earthquake data summaries.

Examples

```
eq_tab <- eq_get_tables()
eq_process_tables(eq_tab)
```

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