Package: lindol (via r-universe)

October 18, 2024

Type Package

Title An Interface to the PHIVOLCS Earthquake Bulletins

Version 0.0.0.9000

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)

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

Suggests spelling, testthat (>= 3.0.0)

Encoding UTF-8

Language en-GB

LazyData true

RoxygenNote 7.3.1

Roxygen list(markdown = TRUE)

URL https://panukatan.io/lindol/, https://github.com/panukatan/lindol,
http://panukatan.io/lindol/

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

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Repository https://panukatan.r-universe.dev

RemoteUrl https://github.com/panukatan/lindol

RemoteRef HEAD

RemoteSha 63dae07c8cdb306feb75bc90c58a570586558a34

Contents

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eq_build_url   *Build URLs for specific PHIVOLCS earthquake bulletin summaries*

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   *Retrieve earthquake information data from PHIVOLCS bulletins*

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
)
```

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.

Value

A tibble of processed earthquake data.

Examples

```
eq_data_summary()
```

---

eq_get_bulletin	*Retrieve raw information from PHIVOLCS earthquake information bulletins*

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

```
urls <- eq_get_bulletin_urls()
eq_get_bulletins(urls[1:3])
```

---

eq_get_bulletin_urls	*Get PHIVOLCS earthquake information bulletins*

Description

Get PHIVOLCS earthquake information bulletins

Usage

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

eq_get_bulletin_urls_(.url)
```

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.

Value

A character vector of URLs for PHIVOLCS earthquake information bulletins.

Examples

```
eq_get_bulletin_urls()
```

`eq_get_tables`	*Get earthquake monitoring information from PHIVOLCS earthquake bulletin HTMLs*

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

`.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.

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

`eq_df`	A tibble of earthquake information from PHIVOLCS bulletins retrieved using `eq_get_bulletins()`.

Value

A tibble of processed earthquake information from PHIVOLCS bulletins.

Examples

```
urls <- eq_get_bulletin_urls()
eq_get_bulletins(urls[1:3]) |>
  eq_process_bulletins()
```

---

eq_process_tables   *Process tabular data extracted from bulletins*

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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