Package: rrricanesdata (via r-universe)

November 23, 2024

Type Package

Title Data for Atlantic and east Pacific tropical cyclones since 1998

Description Includes storm discussions, forecast/advisories, public
   advisories, wind speed probabilities, strike probabilities and
   more. This package can be used along with rrricanes (>=
   0.2.0-6). Data is considered public domain via the National
   Hurricane Center.

Version 0.2.1

Depends R (>= 3.3)

URL https://docs.ropensci.org/rrricanesdata,

   https://github.com/ropensci/rrricanesdata

BugReports https://github.com/ropensci/rrricanesdata/issues

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Suggests rrricanes

Remotes github::ropensci/rrricanes@develop

LazyData TRUE

ByteCompile TRUE

RoxygenNote 6.0.1

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

RemoteUrl https://github.com/ropensci/rrricanesdata

RemoteRef master

RemoteSha 358f810a7cf018c75066862174b0efef38e14165

Contents

adv	*Advisory - Basic advisory data*

Description

Key Unique identifier of cyclone

Adv Advisory number

Date Date and time of advisory

Status Classification of cyclone

Name Name of cyclone

Lat Latitude of cyclone center

Lon Longitude of cyclone center

Wind Maximum sustained one-minute winds in knots

Gust Maximum sustained one-minute gusts in knots

Pressure Minimum central pressure in millibars

PosAcc Position accuracy of cyclone in nautical miles

FwdDir Compass angle of forward motion

FwdSpeed Forward speed in miles per hour

Eye Size of eye in nautical miles

SeasNE Radius of 12ft seas in northeast quadrant

SeasSE Radius of 12ft seas in southeast quadrant

SeasSW Radius of 12ft seas in southwest quadrant

SeasNW Radius of 12ft seas in northwest quadrant

Usage

```
adv
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 12862 rows and 18 columns.

---

discus *Storm Discussions*

Description

Status Classification of storm, e.g., Tropical Storm, Hurricane, etc.

Name Name of storm

Adv Advisory Number

Date Date of advisory issuance

Key ID of cyclone

Contents Text content of product

Usage

discus

Format

An object of class tbl_df (inherits from tbl, data.frame) with 12847 rows and 6 columns.

---

fcst *Forecasts - Forecast positions per Forecast/Advisory*

Description

Key Unique identifier of cyclone

Adv Advisory number

Date Date and time of advisory

FcstDate Forecast date and time in UTC

Lat Forecast latitude

Lon Forecast Longitude

Wind Forecast wind in knots

Gust Forecast gust in knots

Usage

fcst

Format

An object of class tbl_df (inherits from tbl, data.frame) with 66170 rows and 8 columns.

---

fcst_wr   *Forecast Wind Radius - Wind radius for each* fcst

Description

Key Unique identifier of cyclone

Adv Advisory number

Date Date and time of advisory

FcstDate Forecast date and time in UTC

WindField Minimum sustained wind field for quadrants

NE Radius in nautical miles for northeast quadrant

SE Radius in nautical miles for southeast quadrant

SW Radius in nautical miles for southwest quadrant

NW Radius in nautical miles for northwest quadrant

Usage

    fcst_wr

Format

An object of class tbl_df (inherits from tbl, data.frame) with 85255 rows and 9 columns.

---

fstadv   *Forecast/Advisory*

Description

Status Classification of cyclone

Name Name of cyclone

Adv Advisory number

Date Date and time of advisory

Key Unique identifier of cyclone

Lat Latitude of cyclone center

Lon Longitude of cyclone center

Wind Maximum sustained one-minute winds in knots

Gust Maximum sustained one-minute gusts in knots

Pressure Minimum central pressure in millibars

PosAcc Position accuracy of cyclone in nautical miles

FwdDir Compass angle of forward motion

FwdSpeed Forward speed in miles per hour

Eye Size of eye in nautical miles

NE64 Radius of >=64kt winds in northeast quadrant

SE64 Radius of >=64kt winds in southeast quadrant

SW64 Radius of >=64kt winds in southwest quadrant

NW64 Radius of >=64kt winds in northwest quadrant

NE50 Radius of >=50kt winds in northeast quadrant

SE50 Radius of >=50kt winds in southeast quadrant

SW50 Radius of >=50kt winds in southwest quadrant

NW50 Radius of >=50kt winds in northwest quadrant

NE34 Radius of >=34kt winds in northwest quadrant

SE34 Radius of >=34kt winds in southeast quadrant

SW34 Radius of >=34kt winds in southwest quadrant

NW34 Radius of >=34kt winds in northwest quadrant

Hr{n}FcstDate Forecast valid date

Hr{n}Lat Forecast latitude in 'n' hours

Hr{n}Lon Forecast longitude in 'n' hours

Hr{n}Wind Forecast maximum wind in 'n' hours

Hr{n}Gust Forecast maximum gust in 'n' hours

Hr{n}NE64 Forecast wind radius in 'n' hours

Hr{n}SE64 Forecast wind radius in 'n' hours

Hr{n}SW64 Forecast wind radius in 'n' hours

Hr{n}NW64 Forecast wind radius in 'n' hours

Hr{n}NE50 Forecast wind radius in 'n' hours

Hr{n}SE50 Forecast wind radius in 'n' hours

Hr{n}SW50 Forecast wind radius in 'n' hours

Hr{n}NW50 Forecast wind radius in 'n' hours

Hr{n}NE34 Forecast wind radius in 'n' hours

Hr{n}SE34 Forecast wind radius in 'n' hours

Hr{n}SW34 Forecast wind radius in 'n' hours

Hr{n}NW34 Forecast wind radius in 'n' hours

SeasNE Radius of 12ft seas in northeast quadrant

SeasSE Radius of 12ft seas in southeast quadrant

SeasSW Radius of 12ft seas in southwest quadrant

SeasNW Radius of 12ft seas in northwest quadrant

Usage

```
fstadv
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 12874 rows and 117 columns.

---

posest   *Position Estimates*

Description

Status Classification of storm, e.g., Tropical Storm, Hurricane, etc.

Name Name of storm

Date Date of advisory issuance

Contents Text content of product

Usage

```
posest
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 85 rows and 4 columns.

---

prblty   *Strike Probabilities*

Description

Status Classification of storm, e.g., Tropical Storm, Hurricane, etc.

Name Name of storm

Adv Advisory Number

Date Date of advisory issuance

Location Location for which the probability statistics rely

A Probability of a strike within the next 12 hours

B Probability of a strike between 12 and 24 hours

C Probability of a strike between 24 and 36 hours

D Probability of a strike between 36 and 48 hours

E Probability of a strike between 48 and 72 hours

Usage

```
prblty
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 55571 rows and 10 columns.

---

public	*Public Advisory*

Description

Status Classification of storm, e.g., Tropical Storm, Hurricane, etc.

Name Name of storm

Adv Advisory Number

Date Date of advisory issuance

Key Unique ID of the cyclone

Contents Text content of product

Usage

```
public
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 14080 rows and 6 columns.

---

rrricanesdata	*rrricanesdata*

Description

rrricanesdata is the complimentary data package to 'rrricanes'. It includes all product datasets for north Atlantic and northeast Pacific tropical cyclones from 1998 through the previous month. This package will be updated on the first of every month provided at least one cyclone advisory was issued in the previous month.

---

storms   *Storm Summary*

Description

Key Storm ID

Name Storm name

Wind Peak wind speed in knots

StartDate Date/time of first advisory

EndDate Date/time of last advisory

Usage

```
storms
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 647 rows and 5 columns.

---

update   *Tropical Cyclone Updates*

Description

Status Classification of storm, e.g., Tropical Storm, Hurricane, etc.

Name Name of storm

Date Date of advisory issuance

Key Unique ID of cyclone

Contents Text content of product

Usage

```
update
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 237 rows and 5 columns.

---

wndprb *Wind Speed Probabilities*

Description

Status Classification of storm, e.g., Tropical Storm, Hurricane, etc.

Name Name of storm

Adv Advisory Number

Date Date of advisory issuance

Wind Minimum wind speed for which probabilities reference

Wind12 Probability of sustained 'Wind' within 12 hours

Wind24 Probability of sustained 'Wind' within 24 hours

Wind24Cum Cumulative probability through 24 hours

Wind36 Probability of sustained 'Wind' within 36 hours

Wind36Cum Cumulative probability through 36 hours

Wind48 Probability of sustained 'Wind' within 48 hours

Wind48Cum Cumulative probability through 48 hours

Wind72 Probability of sustained 'Wind' within 72 hours

Wind72Cum Cumulative probability through 72 hours

Wind96 Probability of sustained 'Wind' within 96 hours

Wind96Cum Cumulative probability through 96 hours

Wind120 Probability of sustained 'Wind' within 120 hours

Wind120Cum Cumulative probability through 120 hours

Usage

```
wndprb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 118222 rows and 18 columns.

| wr | *Wind Radius - Current wind radius* |

Description

Key Unique identifier of cyclone

Adv Advisory number

Date Date and time of advisory

Windfield Minimum wind speed expected

NE Radius of 'Windfield' in the northeast quadrant

SE Radius of 'Windfield' in the southeast quadrant

SW Radius of 'Windfield' in the southwest quadrant

NW Radius of 'Windfield' in the northwest quadrant

Usage

```
wr
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 19294 rows and 8 columns.

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