

# Package: rrrricanesdata (via r-universe)

July 12, 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 rrrricanes ( $\geq$  0.2.0-6). Data is considered public domain via the National Hurricane Center.

**Version** 0.2.1

**Depends** R ( $\geq$  3.3)

**URL** <https://docs.ropensci.org/rrricanesdata>,  
<https://github.com/ropensci/rrricanesdata>

**BugReports** <https://github.com/ropensci/rrricanesdata/issues>

**License** CC0-1.0 + file LICENSE

**Suggests** rrrricanes

**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

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adv *Advisory - Basic advisory data*

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### 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.

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discus	<i>Storm Discussions</i>
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**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.

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fcst	<i>Forecasts - Forecast positions per Forecast/Advisory</i>
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**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.

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fcst_wr	<i>Forecast Wind Radius - Wind radius for each fcst</i>
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### 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.

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fstadv	<i>Forecast/Advisory</i>
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### 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  $\geq 64$ kt winds in northeast quadrant  
**SE64** Radius of  $\geq 64$ kt winds in southeast quadrant  
**SW64** Radius of  $\geq 64$ kt winds in southwest quadrant  
**NW64** Radius of  $\geq 64$ kt winds in northwest quadrant  
**NE50** Radius of  $\geq 50$ kt winds in northeast quadrant  
**SE50** Radius of  $\geq 50$ kt winds in southeast quadrant  
**SW50** Radius of  $\geq 50$ kt winds in southwest quadrant  
**NW50** Radius of  $\geq 50$ kt winds in northwest quadrant  
**NE34** Radius of  $\geq 34$ kt winds in northeast quadrant  
**SE34** Radius of  $\geq 34$ kt winds in southeast quadrant  
**SW34** Radius of  $\geq 34$ kt winds in southwest quadrant  
**NW34** Radius of  $\geq 34$ kt 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.

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posest	<i>Position Estimates</i>
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**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.

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prblty	<i>Strike Probabilities</i>
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**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.

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public	<i>Public Advisory</i>
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**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.

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rrricanesdata	<i>rrricanesdata</i>
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**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.

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 storms

*Storm Summary*


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**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.

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 update

*Tropical Cyclone Updates*


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**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.

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wndprb

*Wind Speed Probabilities*

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### **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.

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wr

*Wind Radius - Current wind radius*

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**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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