# Package 'weathermetrics'

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### Description

Daily values of mean temperature (Kelvin) and mean dew point temperature (Kelvin) for the week of December 19, 2010, in Los Angeles, CA.

### Usage

angeles

### **Format**

A data frame 7 rows and 3 variables:

date Date of weather observation

TemperatureK Daily mean temperature in Kelvin

DewpointK Daily mean dewpoint temperature in Kelvin

beijing 3

#### **Source**

Weather Underground

beijing

Weather in Beijing, China

### Description

A dataset containing daily values of mean temperature (Fahrenheit) and mean wind speed (in miles per hour, meters per second, feet per seconds, and kilometers per hour) for the week of January 10, 2015, in Beijing, China.

### Usage

beijing

#### **Format**

A data frame with 7 rows and 3 variables:

date Date of weather observation

TemperatureF Daily mean temperature in Fahrenheit

MPH Daily mean wind speed in miles per hour

**mps** Daily mean wind speed in meters per second

ftps Daily mean wind speed in feet per second

kmph Daily mean wind speed in kilometers per hour

#### **Source**

Weather Underground

breck

Precipitation in Breckenridge, CO

### Description

Daily values of precipitation (inches) for the week of June 28, 2015, in Breckenridge, CO.

### Usage

breck

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#### **Format**

A data frame 7 rows and 2 variables:

date Date of weather observation

Precip.in Daily precipitation in inches

#### **Source**

Weather Underground

celsius.to.fahrenheit Convert from Celsius to Fahrenheit.

### **Description**

celsius.to.fahrenheit creates a numeric vector of temperatures in Fahrenheit from a numeric vector of temperatures in Celsius.

### Usage

```
celsius.to.fahrenheit(T.celsius, round = 2)
```

### **Arguments**

T. celsius Numeric vector of temperatures in Celsius.

round An integer indicating the number of decimal places to round the converted value.

#### Value

A numeric vector of temperature values in Fahrenheit.

#### Note

Equations are from the source code for the US National Weather Service's online heat index calculator.

### Author(s)

#### See Also

fahrenheit.to.celsius

celsius.to.kelvin 5

### **Examples**

```
# Convert from Celsius to Fahrenheit.
data(lyon)
lyon$TemperatureF <- celsius.to.fahrenheit(lyon$TemperatureC)
lyon</pre>
```

celsius.to.kelvin

Convert from Celsius to Kelvin.

### **Description**

celsius.to.kelvin creates a numeric vector of temperatures in Kelvin from a numeric vector of temperatures in Celsius.

### Usage

```
celsius.to.kelvin(T.celsius, round = 2)
```

### Arguments

T. celsius Numeric vector of temperatures in Celsius.

round An integer indicating the number of decimal places to round the converted value.

#### Value

A numeric vector of temperature values in Kelvin.

#### Note

Equations are from the source code for the National Oceanic and Atmospheric Association's online temperature converter.

#### Author(s)

Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

#### See Also

```
kelvin.to.celsius
```

```
# Convert from Celsius to Kelvin.
data(lyon)
lyon$TemperatureK <- celsius.to.kelvin(lyon$TemperatureC)
lyon</pre>
```

6 convert\_precip

nvert_precip Convert between precipitation metrics
--

#### **Description**

This function allows you to convert among the following precipitation metrics: inches, millimeters, and centimeters.

### Usage

```
convert_precip(precip, old_metric, new_metric, round = 2)
```

### **Arguments**

precip A numerical vector of precipitation to be converted.

old\_metric The metric from which you want to convert. Possible options are:

inches: Inchesmm: Millimeterscm: Centimeters

new\_metric The metric to which you want to convert. The same options are possible as for

old\_metric.

round An integer indicating the number of decimal places to round the converted value.

### Value

A numeric vector with precipitation converted to the metric specified by the argument new\_metric.

#### Author(s)

Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

```
data(breck)
breck$Precip.mm <- convert_precip(breck$Precip.in,
    old_metric = "inches", new_metric = "mm", round = 2)
breck

data(loveland)
loveland$Precip.in <- convert_precip(loveland$Precip.mm,
    old_metric = "mm", new_metric = "inches", round = NULL)
loveland$Precip.cm <- convert_precip(loveland$Precip.mm,
    old_metric = "mm", new_metric = "cm", round = 3)
loveland</pre>
```

convert\_temperature 7

convert\_temperature

Convert from one temperature metric to another

#### Description

This function allows you to convert a vector of temperature values between Fahrenheit, Celsius, and degrees Kelvin.

#### Usage

```
convert_temperature(temperature, old_metric, new_metric, round = 2)
```

#### **Arguments**

temperature A numeric vector of temperatures to be converted.

old\_metric The metric from which you want to convert. Possible options are:

• fahrenheit, f

kelvin, kcelsius, c

new\_metric The metric to which you want to convert. The same options are possible as for

old\_metric.

round An integer indicating the number of decimal places to round the converted value.

#### Value

A numeric vector with temperature converted to the metric specified by the argument new\_metric.

#### Author(s)

#' Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

```
data(lyon)
lyon$TemperatureF <- convert_temperature(lyon$TemperatureC,
    old_metric = "c", new_metric = "f")
lyon

data(norfolk)
norfolk$TempC <- convert_temperature(norfolk$TemperatureF,
    old_metric = "f", new_metric = "c")
norfolk

data(angeles)
angeles$TemperatureC <- convert_temperature(angeles$TemperatureK,
    old_metric = "kelvin", new_metric = "celsius")
angeles</pre>
```

convert\_wind\_speed

convert\_wind\_speed

Convert between wind speed metrics

#### **Description**

This function allows you to convert among the following wind speed metrics: knots, miles per hour, meters per second, feet per second, and kilometers per hour.

#### Usage

```
convert_wind_speed(wind_speed, old_metric, new_metric, round = 1)
```

#### **Arguments**

wind\_speed A numerical vector of wind speeds to be converted.

old\_metric The metric from which you want to convert. Possible options are:

• knots: Knots

• mph: Miles per hour

• mps: Meters per second

• ftps: Feet per second

• kmph: Kilometers per hour

new\_metric The metric to which you want to convert. The same options are possible as for

old\_metric.

round An integer indicating the number of decimal places to round the converted value.

#### Value

A numeric vector with wind speed converted to the metric specified by the argument new\_metric.

### Author(s)

Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

```
data(beijing)
beijing$knots <- convert_wind_speed(beijing$kmph,
    old_metric = "kmph", new_metric = "knots")
beijing

data(foco)
foco$mph <- convert_wind_speed(foco$knots, old_metric = "knots",
    new_metric = "mph", round = 0)
foco$mph <- convert_wind_speed(foco$knots, old_metric = "knots",
    new_metric = "mps", round = NULL)
foco$kmph <- convert_wind_speed(foco$mph, old_metric = "mph",</pre>
```

dewpoint.to.humidity 9

```
new_metric = "kmph")
foco
```

dewpoint.to.humidity Calculate relative humidity.

### **Description**

dewpoint.to.humidity creates a numeric vector of relative humidity from numerical vectors of air temperature and dew point temperature.

#### Usage

```
dewpoint.to.humidity(dp = NA, t = NA, temperature.metric = "fahrenheit")
```

### **Arguments**

dp Numeric vector of dew point temperatures.

t Numeric vector of air temperatures.

temperature.metric

Character string indicating the temperature metric of air temperature and dew point temperature. Possible values are fahrenheit or celsius.

#### **Details**

Dew point temperature and temperature must be in the same metric (i.e., either both in Celsius or both in Fahrenheit). If necessary, use convert\_temperature to convert before using this function.

#### Value

A numeric vector of relative humidity (in %)

#### Note

Equations are from the source code for the US National Weather Service's online heat index calculator.

#### Author(s)

#### References

National Weather Service Hydrometeorological Prediction Center Web Team. Heat Index Calculator. 30 Jan 2015. http://www.wpc.ncep.noaa.gov/html/heatindex.shtml. Accessed 18 Dec 2015.

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#### See Also

humidity.to.dewpoint, fahrenheit.to.celsius, celsius.to.fahrenheit,convert\_temperature

#### **Examples**

fahrenheit.to.celsius Convert from Fahrenheit to Celsius.

### Description

fahrenheit.to.celsius creates a numeric vector of temperatures in Celsius from a numeric vector of temperatures in Fahrenheit.

#### Usage

```
fahrenheit.to.celsius(T.fahrenheit, round = 2)
```

#### **Arguments**

T. fahrenheit Numeric vector of temperatures in Fahrenheit.

round An integer indicating the number of decimal places to round the converted value.

#### Value

A numeric vector of temperature values in Celsius.

#### Note

Equations are from the source code for the US National Weather Service's online heat index calculator.

#### Author(s)

#### See Also

```
celsius.to.fahrenheit
```

fahrenheit.to.kelvin 11

### **Examples**

```
# Convert from Fahrenheit to Celsius.
data(norfolk)
norfolk$TempC <- fahrenheit.to.celsius(norfolk$TemperatureF)
norfolk</pre>
```

fahrenheit.to.kelvin Convert from Fahrenheit to Kelvin.

#### **Description**

fahrenheit.to.kelvin creates a numeric vector of temperatures in Kelvin from a numeric vector of temperatures in Fahrenheit.

### Usage

```
fahrenheit.to.kelvin(T.fahrenheit, round = 2)
```

### **Arguments**

T. fahrenheit Numeric vector of temperatures in Fahrenheit.

round An integer indicating the number of decimal places to round the converted value.

### Value

A numeric vector of temperature values in Kelvin.

#### Note

Equations are from the source code for the National Oceanic and Atmospheric Association's online temperature converter.

#### Author(s)

#' Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson <brooke.anderson@colostate.edu>

#### See Also

```
kelvin.to.fahrenheit
```

```
# Convert from Fahrenheit to Kelvin.
data(norfolk)
norfolk$TempuratureK <- fahrenheit.to.kelvin(norfolk$TemperatureF)
norfolk</pre>
```

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foco

Weather in Fort Collins, CO

### **Description**

A dataset containing daily values of mean temperature (Fahrenheit) and mean wind speed (in knots) for the week of October 11, 2015, in Fort Collins, CO.

### Usage

foco

#### **Format**

A data frame with 7 rows and 3 variables:

date Date of weather observation

**TemperatureF** Daily mean temperature in Fahrenheit

knots Daily mean wind speed in knots

#### Source

#### Weather Underground

heat.index

Calculate heat index.

### Description

heat.index creates a numeric vector of heat index values from numeric vectors of air temperature and either relative humidity or dew point temperature.

### Usage

```
heat.index(t = NA, dp = c(), rh = c(),
  temperature.metric = "fahrenheit", output.metric = NULL, round = 0)
```

#### **Arguments**

t Numeric vector of air temperatures.

dp Numeric vector of dew point temperatures.
rh Numeric vector of relative humidity (in %).

temperature.metric

Character string indicating the temperature metric of air temperature and dew

point temperature. Possible values are 'fahrenheit' or 'celsius'.

output.metric Character string indicating the metric into which heat index should be calcu-

lated. Possible values are 'fahrenheit' or 'celsius'.

round Integer indicating the number of decimal places to round converted value.

heat.index 13

#### **Details**

Include air temperature (t) and either dew point temperature (dp) or relative humdity (rh). You cannot specify both dew point temperature and relative humidity—this will return an error. Heat index is calculated as NA when impossible values of dew point temperature or humidity are input (e.g., humidity above 100% or below 0%, dew point temperature above air temperature).

#### Value

A numeric vector of heat index values in the metric specified by output.metric. (If output.metric is not specified, heat index will be returned in the same metric in which air temperature was input, specified by temperature.metric.)

#### Note

Equations are from the source code for the US National Weather Service's online heat index calculator.

### Author(s)

#### References

Anderson GB, Bell ML, Peng RD. 2013. Methods to calculate the heat index as an exposure metric in environmental health research. Environmental Health Perspectives 121(10):1111-1119.

National Weather Service Hydrometeorological Prediction Center Web Team. Heat Index Calculator. 30 Jan 2015. http://www.wpc.ncep.noaa.gov/html/heatindex.shtml. Accessed 18 Dec 2015.

Rothfusz L. 1990. The heat index (or, more than you ever wanted to know about heat index) (Technical Attachment SR 90-23). Fort Worth: Scientific Services Division, National Weather Service.

R. Steadman, 1979. The assessment of sultriness. Part I: A temperature-humidity index based on human physiology and clothing science. Journal of Applied Meteorology, 18(7):861–873.

14 heat.index.algorithm

```
dp = lyon$DewpointC,
temperature.metric = 'celsius',
output.metric = 'celsius')
```

lyon

### **Description**

heat.index.algorithm converts a numeric scalar of temperature (in Fahrenheit) and a numeric scalar of relative humidity (in %) to heat index (in Fahrenheit). This function is not meant to be used outside of the heat.index function.

#### **Usage**

```
heat.index.algorithm(t = NA, rh = NA)
```

#### **Arguments**

t Numeric scalar of air temperature, in Fahrenheit.

rh Numeric scalar of relative humidity, in %.

#### **Details**

If an impossible value of relative humidity is given (below 0% or above 100%), heat index is returned as NA.

#### Value

A numeric scalar of heat index, in Fahrenheit.

### Note

Equations are from the source code for the US National Weather Service's online heat index calculator.

### Author(s)

humidity.to.dewpoint 15

#### References

Anderson GB, Bell ML, Peng RD. 2013. Methods to calculate the heat index as an exposure Metric in environmental health research. Environmental Health Perspectives 121(10):1111-1119.

National Weather Service Hydrometeorological Prediction Center Web Team. Heat Index Calculator. 30 Jan 2015. http://www.wpc.ncep.noaa.gov/html/heatindex.shtml. Accessed 18 Dec 2015.

Rothfusz L. 1990. The heat index (or, more than you ever wanted to know about heat index) (Technical Attachment SR 90-23). Fort Worth: Scientific Services Division, National Weather Service.

R. Steadman, 1979. The assessment of sultriness. Part I: A temperature-humidity index based on human physiology and clothing science. Journal of Applied Meteorology, 18(7):861–873.

#### See Also

heat.index

humidity.to.dewpoint *Calculate dew point temperature*.

#### **Description**

humidity.to.dewpoint creates a numeric vector of dew point temperature from numeric vectors of air temperature and relative humidity.

#### Usage

```
humidity.to.dewpoint(rh = NA, t = NA, temperature.metric = "fahrenheit")
```

### Arguments

rh Numeric vector of relative humidity (in %).

t Numeric vector of air temperatures.

temperature.metric

Character string indicating the temperature metric of air temperature. Possible values are fahrenheit or celsius.

### **Details**

Dew point temperature will be calculated in the same metric as the temperature vector (as specified by the temperature.metric option). If you'd like dew point temperature in a different metric, use the function celsius.to.fahrenheit or fahrenheit.to.celsius on the output from this function.

#### Value

A numeric vector of dew point temperature, in the same metric as the temperature vector (as specified by the temperature.metric option).

inches\_to\_metric

### Note

Equations are from the source code for the US National Weather Service's online heat index calculator

#### Author(s)

#### References

National Weather Service Hydrometeorological Prediction Center Web Team. Heat Index Calculator. 30 Jan 2015. http://www.wpc.ncep.noaa.gov/html/heatindex.shtml. Accessed 18 Dec 2015.

#### See Also

```
dewpoint.to.humidity, fahrenheit.to.celsius, celsius.to.fahrenheit
```

### **Examples**

inches\_to\_metric

Convert from inches to standard metric units of measure for precipitation

#### **Description**

inches\_to\_metric creates a numeric vector of precipitation in common metric units (millimeters or centimeters) from a numeric vector of precipitation in inches.

#### Usage

```
inches_to_metric(inches, unit, round = 2)
```

kelvin.to.celsius 17

### Arguments

inches Numeric vector of precipitation (in inches)

unit Character specifying the metric precipitation unit besides inches. Possible val-

ues are:

mm: Millimeterscm: Centimeters

round An integer indicating the number of decimal places to round the converted value.

#### Value

A numeric vector of precipitation (in specified metric unit)

#### Note

Equations are from the source code for the National Weather Service Forecast Office http://www.srh.noaa.gov/ama/?n=conversions

#### Author(s)

Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

#### References

```
http://www.srh.noaa.gov/ama/?n=conversions
```

### See Also

```
metric_to_inches
```

#### **Examples**

kelvin.to.celsius

Convert from Kelvin to Celsius.

### **Description**

kelvin.to.celsius creates a numeric vector of temperatures in Celsius from a numeric vector of temperatures in Kelvin.

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#### Usage

```
kelvin.to.celsius(T.kelvin, round = 2)
```

#### **Arguments**

T.kelvin Numeric vector of temperatures in Kelvin.

round An integer indicating the number of decimal places to round the converted value.

#### Value

A numeric vector of temperature values in Celsius.

#### Note

Equations are from the source code for the National Oceanic and Atmospheric Association's online temperature converter.

#### Author(s)

Joshua Ferreri < joshua.m. ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

#### See Also

```
celsius.to.kelvin
```

### **Examples**

```
# Convert from Kelvin to Celsius.
data(angeles)
angeles$TemperatureC <- kelvin.to.celsius(angeles$TemperatureK)
angeles</pre>
```

kelvin.to.fahrenheit Convert from Kelvin to Fahrenheit.

#### **Description**

kelvin.to.fahrenheit creates a numeric vector of temperatures in Fahrenheit from a numeric vector of temperatures in Kelvin.

### Usage

```
kelvin.to.fahrenheit(T.kelvin, round = 2)
```

### **Arguments**

T.kelvin Numeric vector of temperatures in Kelvin.

round An integer indicating the number of decimal places to round the converted value.

knots\_to\_speed 19

#### Value

A numeric vector of temperature values in Fahrenheit.

#### Note

Equations are from the source code for the National Oceanic and Atmospheric Association's online temperature converter.

#### Author(s)

Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

#### See Also

```
fahrenheit.to.kelvin
```

### **Examples**

```
# Convert from Kelvin to Fahrenheit.
data(angeles)
angeles$TemperatureF <- kelvin.to.fahrenheit(angeles$TemperatureK)
angeles</pre>
```

knots\_to\_speed

Convert from knots to standard units of wind speed

### Description

knots\_to\_speed creates a numeric vector of speed, in units specified by unit, from a numeric vector of speed in knots.

#### **Usage**

```
knots_to_speed(knots, unit, round = 1)
```

### **Arguments**

knots Numeric vector of speeds in knots

unit Character specifying the speed unit other than knots. Possible values are:

mph: Miles per hourmps: Meters per secondftps: Feet per secondkmph: Kilometers per hour

round An integer indicating the number of decimal places to round the converted value.

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### **Details**

Output will be in the speed units specified by unit.

### Value

A numeric vector of speeds (in the specified unit)

#### Note

Equations are from the source code for the National Oceanic and and Atmospheric Administration's online wind speed converter

#### Author(s)

Joshua Ferreri < joshua.m. ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

#### References

```
http://www.srh.noaa.gov/epz/?n=wxcalc_windconvert
```

#### See Also

```
speed_to_knots
```

### **Examples**

```
data(foco)
foco$mph <- knots_to_speed(foco$knots, unit = "mph", round = 0)
foco$mps <- knots_to_speed(foco$knots, unit = "mps", round = NULL)
foco$ftps <- knots_to_speed(foco$knots, unit = "ftps")
foco$kmph <- knots_to_speed(foco$knots, unit = "kmph")
foco</pre>
```

loveland

Precipitation in Loveland, CO

### **Description**

Daily values of precipitation (millimeters) for the week of September 8, 2013, in Loveland, CO.

#### Usage

loveland

lyon 21

### **Format**

A data frame 7 rows and 2 variables:

date Date of weather observation

Precip.mm Daily precipitation in millimeters

### Source

Weather Underground

lyon

Weather in Lyon, France

### Description

Daily values of mean temperature (Celsius) and mean dew point temperature (Celsius) for the week of June 18, 2000, in Lyon, France.

### Usage

lyon

### **Format**

A data frame with columns:

Date Date of weather observation

TemperatureC Daily mean temperature in Celsius

DewpointC Daily mean dewpoint temperature in Celsius

### **Source**

Weather Underground

22 metric\_to\_inches

metric_to_inches	Convert between standard metric units of measure for precipitation to inches
------------------	--

### Description

metric\_to\_inches creates a numeric vector of precipitation measures in inches from a numeric vector of precipitation in common metric units (millimeters or centimeters).

### Usage

```
metric_to_inches(metric, unit.from, round = 2)
```

#### **Arguments**

metric Numeric vector of precipitation (in millimeters or centimeters)

unit.from A character string with the current units of the observations (i.e., the units from

which you want to convert)

round An integer indicating the number of decimal places to round the converted value.

#### Value

A numeric vector of precipitation in inches.

### Note

Equations are from the source code for the National Weather Service Forecast Office http://www.srh.noaa.gov/ama/?n=conversions

#### Author(s)

Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson <br/> brooke.anderson@colostate.edu>

#### References

```
http://www.srh.noaa.gov/ama/?n=conversions
```

### See Also

```
inches_to_metric
```

newhaven 23

newhaven

Weather in New Haven, CT

### **Description**

Daily values of mean temperature (Fahrenheit) and mean relative humidity (%) for the week of October 19, 2008, in New Haven, CT.

### Usage

newhaven

#### **Format**

A data frame with columns:

**Date** Date of weather observation

TemperatureF Daily mean temperature in Fahrenheit

Relative.Humidity Daily relative humidity in %

#### Source

Weather Underground

norfolk

Weather in Norfolk, VA

### **Description**

Daily values of mean temperature (Fahrenheit) and mean dew point temperature (Fahrenheit) for the week of March 12, 2006, in Norfolk, VA.

### Usage

norfolk

### **Format**

A data frame with columns:

Date Date of weather observation

TemperatureF Daily mean temperature in Fahrenheit

**DewpointF** Daily mean dewpoint temperature in Fahrenheit

#### **Source**

Weather Underground

24 speed\_to\_knots

puravida

Weather in San Jose, Costa Rica

### **Description**

Daily values of mean temperature (Fahrenheit) and mean wind speed (miles per hour) for the week of August 02, 2015, in San Jose, Costa Rica.

#### Usage

puravida

#### **Format**

A data frame 7 rows and 3 variables:

date Date of weather observation

TemperatureF Daily mean temperature in Fahrenheit

mph Daily mean wind speed in miles per hour

#### **Source**

Weather Underground

speed\_to\_knots

Convert between standard units of measure for wind speed

### **Description**

speed\_to\_knots creates a numeric vector of speed in knots from a numeric vector of speed in the specified unit.

#### Usage

```
speed_to_knots(x, unit, round = 1)
```

### **Arguments**

x Numeric vector of wind speeds, in units specified by unit

unit Character specifying the speed unit other than knots. Possible values are:

mph: Miles per hourmps: Meters per secondftps: Feet per secondkmph: Kilometers per hour

round An integer indicating the number of decimal places to round the converted value.

suffolk 25

### Value

A numeric vector of speeds (in knots)

### Note

Equations are from the source code for the National Oceanic and and Atmospheric Administration's online wind speed converter

### Author(s)

Joshua Ferreri < joshua.m.ferreri@gmail.com>, Brooke Anderson < brooke.anderson@colostate.edu>

#### References

```
http://www.srh.noaa.gov/epz/?n=wxcalc_windconvert
```

#### See Also

```
knots_to_speed
```

### **Examples**

```
data(beijing)
beijing$knots <- speed_to_knots(beijing$kmph, unit = "kmph", round = 2)
beijing</pre>
```

suffolk

Weather in Suffolk, VA

#### **Description**

Daily values of mean temperature (Fahrenheit) and mean relative humidity (%) for the week of July 12, 1998, in Suffolk, VA.

### Usage

suffolk

#### **Format**

A data frame with columns:

**Date** Date of weather observation

TemperatureF Daily mean temperature in Fahrenheit

Relative. Humidity Daily relative humidity in %

#### **Source**

Weather Underground

26 weathermetrics

weathermetrics

weathermetrics: Functions to convert between weather metrics

### Description

The weathermetics package provides functions to convert between Celsius and Fahrenheit, to convert between dew point temperature and relative humidity, and to calculate heat index.

#### weathermetrics functions

This package includes the following functions to calculate vectors of weather metrics: celsius.to.fahrenheit, fahrenheit.to.celsius, dewpoint.to.humidity, humidity.to.dewpoint, and heat.index.

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#### References

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