

# Package ‘rwunderground’

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**Type** Package

**Title** R Interface to Weather Underground API

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**Description** Tools for getting historical weather information and forecasts from wunderground.com. Historical weather and forecast data includes, but is not limited to, temperature, humidity, windchill, wind speed, dew point, heat index. Additionally, the weather underground weather API also includes information on sunrise/sunset, tidal conditions, satellite/webcam imagery, weather alerts, hurricane alerts and historical high/low temperatures.

**URL** <https://github.com/ALShum/rwunderground>,  
<http://www.wunderground.com/weather/api>

**BugReports** <https://github.com/alshum/rwunderground/issues>

**License** GPL (>= 2)

**Imports** httr, dplyr, countrycode, lubridate, tibble

**LazyData** TRUE

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---

alerts *Weather Alerts for United States and Europe*

---

## Description

Weather Alerts for United States and Europe

**Usage**

```
alerts(location, key = get_api_key(), raw = FALSE, raw_JSON = FALSE,
        message = TRUE)
```

**Arguments**

location	location set by set_location
key	weather underground API key
raw	if TRUE return raw httr object
raw_JSON	if TRUE return entire alert as JSON
message	if TRUE print out requested URL

**Value**

A string containing alert type, message, start time and expiration.

**Examples**

```
## Not run:
alerts(set_location(territory = "Hawaii", city = "Honolulu"))
alerts(set_location(airport_code = "SEA"))
alerts(set_location(zip_code = "90210"))
alerts(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

almanac	<i>Average and record high and low temperatures for current date going back as far as weather underground has data or from the national weather service going back 30 years.</i>
---------	--

---

**Description**

Average and record high and low temperatures for current date going back as far as weather underground has data or from the national weather service going back 30 years.

**Usage**

```
almanac(location, use_metric = FALSE, key = get_api_key(), raw = FALSE,
        message = TRUE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with columns: location, airport, avg\_high, record high, avg\_low, record low.

**Examples**

```
## Not run:
almanac(set_location(territory = "Hawaii", city = "Honolulu"))
almanac(set_location(airport_code = "SEA"))
almanac(set_location(zip_code = "90210"))
almanac(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

`as.numeric.nonempty`    *as.numeric with special handling for length 0 (NULL) objects*

---

**Description**

`as.numeric` with special handling for length 0 (NULL) objects

**Usage**

```
## S3 method for class 'nonempty'
as.numeric(x)
```

**Arguments**

`x`                    the object to cast as numeric

**Value**

value of type double

---

`astronomy`                    *Moon phase, sunrise and sunset times for today.*

---

**Description**

Moon phase, sunrise and sunset times for today.

**Usage**

```
astronomy(location, key = get_api_key(), raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with: location, moon phase, percent visible, moon rise and set times, sun rise and set times.

**Examples**

```
## Not run:
astronomy(set_location(territory = "Hawaii", city = "Honolulu"))
astronomy(set_location(airport_code = "SEA"))
astronomy(set_location(zip_code = "90210"))
astronomy(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

base_url	<i>Base URL for wunderground API</i>
----------	--------------------------------------

---

**Description**

Base URL for wunderground API

**Usage**

```
base_url()
```

**Value**

base wunderground URL

---

build_url	<i>Build wunderground request URL</i>
-----------	---------------------------------------

---

**Description**

Build wunderground request URL

**Usage**

```
build_url(key = get_api_key(), request_type, date, location)
```

**Arguments**

key	wunderground API key
request_type	request type TODO::list all request_types
date	Date, only applicable for history requests
location	location set by set_location

---

conditions	<i>Current conditions including current temperature, weather condition, humidity, wind, feels-like, temperature, barometric pressure, and visibility.</i>
------------	---

---

**Description**

Current conditions including current temperature, weather condition, humidity, wind, feels-like, temperature, barometric pressure, and visibility.

**Usage**

```
conditions(location, use_metric = FALSE, key = get_api_key(), raw = FALSE,
  message = TRUE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with conditions

**Examples**

```
## Not run:
conditions(set_location(territory = "Hawaii", city = "Honolulu"))
conditions(set_location(airport_code = "SEA"))
conditions(set_location(zip_code = "90210"))
conditions(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

current_hurricane	<i>Current hurricane - within the US only. Note: all times in eastern</i>
-------------------	---

---

**Description**

Current hurricane - within the US only. Note: all times in eastern

**Usage**

```
current_hurricane(key = get_api_key(), use_metric = FALSE, raw = FALSE,
  message = TRUE)
```

**Arguments**

key	weather underground API key
use_metric	Metric or imperial units
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

Hurricane info

**Examples**

```
## Not run:
current_hurricane()

## End(Not run)
```

---

 dst\_POSIXct

*Return POSIXct time from 7 variables.*


---

### Description

In locations with a Daylight Saving/Standard time change that occurs twice annually, the year has one 23 hour day and one 25 hour day, if by day we mean "an ordered set of all instants in time which are assigned the same date". In the US/Los\_Angeles timezone, there is one day in the spring where there are no valid times between the moment before 02:00:00 and 03:00:00. Similarly, there is one day in the fall where there are two instants described by all times between 01:00:00 and 01:59:59, first as a set of PDT times, then as a set of PST times. `as.POSIXct()` doesn't handle this case well. Times inside this region are assigned to DST until the sequence of clock times has a time which is the same or earlier than its predecessor, and all subsequent ambiguous times are assigned to Standard Time.

### Usage

```
dst_POSIXct(y, m, d, hr, mn, sec, tz)
```

### Arguments

y	vector of years
m	vector of months
d	vector of days
hr	vector of hours
mn	vector of minutes
sec	vector of seconds
tz	vector of timezones

### Value

POSIXct time assuming vectors sorted by true chronological order, at least for the hour that "occurs twice", once with Daylight Time, then again with Standard Time. If there are no nonmonotonicities in the times, all times in this hour will be assumed to be Daylight Time.

---

 dst\_repeat\_starttime

*Find the text to POSIXct ambiguous interval.*


---

### Description

Assumes that DST transitions happen on hour boundaries, which is true almost everywhere, and that the wall clock shifts back and repeats exactly 1 hour, again true almost everywhere. This code relies on R and the OS to properly manage DST in all timezones.



**Usage**

```
dst_repeat_starttime(y, m, d, tz)
```

**Arguments**

y	the year
m	the month
d	the day
tz	the timezone

**Value**

list of two integers between 0000 and 2359, hhmm format. the first integer is the beginning of the interval of clock times which correspond to 2 separate instants of time, the second is the end of that interval. The left endpoint is ambiguous, the right endpoint is not since it maps only to Standard Time.

---

encode_NA	<i>Processes data.frames and replaces wunderground's -9999/-999 to NAs</i>
-----------	--

---

**Description**

Processes data.frames and replaces wunderground's -9999/-999 to NAs

**Usage**

```
encode_NA(df)
```

**Arguments**

df	the data.frame to process
----	---------------------------

**Value**

data.frame with correctly encoded NAs

---

forecast10day	<i>Forecast for the next 10 days.</i>
---------------	---------------------------------------

---

**Description**

Forecast for the next 10 days.

**Usage**

```
forecast10day(location, use_metric = FALSE, key = get_api_key(),
              raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with date (in posix format), high and low temp, conditions, precipitation, rain, snow, max and avg wind speed, max/min and avg humidity

**Examples**

```
## Not run:
forecast10day(set_location(territory = "Hawaii", city = "Honolulu"))
forecast10day(set_location(airport_code = "SEA"))
forecast10day(set_location(zip_code = "90210"))
forecast10day(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

forecast3day	<i>Forecast for the next 3 days.</i>
--------------	--------------------------------------

---

**Description**

Forecast for the next 3 days.

**Usage**

```
forecast3day(location, use_metric = FALSE, key = get_api_key(),
             raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with date (in posix format), high and low temp, conditions, precipitation, rain, snow, max and avg wind speed, max/min and avg humidity

**Examples**

```
## Not run:
forecast3day(set_location(territory = "Hawaii", city = "Honolulu"))
forecast3day(set_location(airport_code = "SEA"))
forecast3day(set_location(zip_code = "90210"))
forecast3day(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

geolookup

*Lists nearby weather stations for a given location*


---

**Description**

Lists nearby weather stations for a given location

**Usage**

```
geolookup(location, use_metric = FALSE, key = get_api_key(), raw = FALSE,
          message = TRUE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df of nearby weather stations with: type, city, state, country, id, lat, lon and dist (in either mi or km)

**Examples**

```
## Not run:
geolookup(set_location(territory = "Hawaii", city = "Honolulu"))
geolookup(set_location(airport_code = "SEA"))
geolookup(set_location(zip_code = "90210"))
geolookup(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

get_api_key	<i>Returns the wunderground API key</i>
-------------	---

---

**Description**

Returns the wunderground API key

**Usage**

```
get_api_key()
```

**Value**

API key

**Examples**

```
## Not run:
get_api_key()

## End(Not run)
```

---

has_api_key	<i>Detects if wunderground API key is set</i>
-------------	---

---

**Description**

Detects if wunderground API key is set

**Usage**

```
has_api_key()
```

**Value**

TRUE if API key set, otherwise FALSE

---

history	<i>Hourly weather data for specified date.</i>
---------	--

---

### Description

Hourly weather data for specified date.

### Usage

```
history(location, date = "20150101", use_metric = FALSE,  
        key = get_api_key(), raw = FALSE, message = TRUE)
```

### Arguments

location	location set by set_location
date	Date as YYYYMMDD format
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

### Value

tbl\_df with date, temperature, dew point, humidity, wind speed, gust and direction, visibility, pressure, wind chill, heat index, precipitation, condition, fog, rain, snow, hail, thunder, tornado

### Examples

```
## Not run:  
history(set_location(territory = "Hawaii", city = "Honolulu"), "20130101")  
history(set_location(airport_code = "SEA"), "20130101")  
history(set_location(zip_code = "90210"), "20130131")  
history(set_location(territory = "IR", city = "Tehran"), "20140131")  
  
## End(Not run)
```

---

history_daily	<i>Summarized weather data for specified date.</i>
---------------	--

---

**Description**

Summarized weather data for specified date.

**Usage**

```
history_daily(location, date = "20150101", use_metric = FALSE,
              key = get_api_key(), raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
date	Date as YYYYMMDD format
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df of summarized weather

**Examples**

```
## Not run:
history_daily(set_location(territory = "Hawaii", city = "Honolulu"), "20130101")
history_daily(set_location(airport_code = "SEA"), "20130101")
history_daily(set_location(zip_code = "90210"), "20130131")
history_daily(set_location(territory = "IR", city = "Tehran"), "20140131")

## End(Not run)
```

---

history_range	<i>Hourly weather data for specified date range.</i>
---------------	--

---

**Description**

Hourly weather data for specified date range.

**Usage**

```
history_range(location, date_start = "20150101", date_end = "20150105",
              limit = 10, no_api = FALSE, use_metric = FALSE, key = get_api_key(),
              raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
date_start	start date
date_end	end date
limit	Maximum number of API requests per minute, NULL to have no limits
no_api	bypass API and use URL requests
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with date, temperature, dew point, humidity, wind speed, gust and direction, visibility, pressure, wind chill, heat index, precipitation, condition, fog, rain, snow, hail, thunder, tornado

**Examples**

```
## Not run:
history_range(set_location(territory = "Hawaii", city = "Honolulu"), "20130101", "20130105")
history_range(set_location(airport_code = "SEA"), "20130101", "20130105")
history_range(set_location(zip_code = "90210"), "20130131", "20130205")
history_range(set_location(territory = "IR", city = "Tehran"), "20140131", "20140202")

## End(Not run)
```

---

hourly

*Hourly forecast for the next 24 hours.*


---

**Description**

Hourly forecast for the next 24 hours.

**Usage**

```
hourly(location, use_metric = FALSE, key = get_api_key(), raw = FALSE,
        message = TRUE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with date, temperature, dew point, condition, wind speed and direction, UV index, humidity, windchill, heat index, real feel, rain, snow, pop, mslp

**Examples**

```
## Not run:
hourly(set_location(territory = "Hawaii", city = "Honolulu"))
hourly(set_location(airport_code = "SEA"))
hourly(set_location(zip_code = "90210"))
hourly(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

hourly10day

*Hourly forecast for the next 10 days.*


---

**Description**

Hourly forecast for the next 10 days.

**Usage**

```
hourly10day(location, use_metric = FALSE, key = get_api_key(),
  raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with date, temperature, dew point, condition, wind speed and direction, UV index, humidity, windchill, heat index, real feel, rain, snow, pop, mslp



**Examples**

```
## Not run:
hourly10day(set_location(territory = "Hawaii", city = "Honolulu"))
hourly10day(set_location(airport_code = "SEA"))
hourly10day(set_location(zip_code = "90210"))
hourly10day(set_location(territory = "IR", city = "Tehran"))

## End(Not run)
```

---

is\_fall\_back\_day      *Check if a date is a "fall back" transition from DST.*

---

**Description**

Check if a date is a "fall back" transition from DST.

**Usage**

```
is_fall_back_day(y, m, d, tz)
```

**Arguments**

y	the year
m	the month
d	the day
tz	the timezone

**Value**

logical

---

is\_valid\_airport      *Checks if airport code is valid*

---

**Description**

Checks if airport code is valid

**Usage**

```
is_valid_airport(name)
```

**Arguments**

name	Airport code either IATA or ICAO
------	----------------------------------

**Value**

TRUE if valid otherwise FALSE

---

is\_valid\_territory      *Checks if country/state is a valid one*

---

**Description**

Checks if country/state is a valid one

**Usage**

```
is_valid_territory(name)
```

**Arguments**

name                      Name of state or country

**Value**

TRUE if valid state or country otherwise FALSE

---

list\_airports              *Returns a data.frame of valid airport codes (ICAO and IATA).*

---

**Description**

This dataset is from the openflights.org airport database. It can be found at <http://openflights.org/data.html#airport>. This data is provided under the open database license – more information can be found here: <http://opendatacommons.org/licenses/odbl/1.0/>.

**Usage**

```
list_airports()
```

**Value**

data.frame of airport codes with country and city

**Examples**

```
## Not run:  
list_airports()  
  
## End(Not run)
```

---

list_countries	<i>Returns a data.frame of valid countries with iso abbreviations and region</i>
----------------	--

---

**Description**

Returns a data.frame of valid countries with iso abbreviations and region

**Usage**

```
list_countries()
```

**Value**

data.frame of valid country names with iso codes

**Examples**

```
## Not run:  
list_countries()  
  
## End(Not run)
```

---

list_states	<i>Returns a data.frame of valid states with abbreviations and regions</i>
-------------	--

---

**Description**

Returns a data.frame of valid states with abbreviations and regions

**Usage**

```
list_states()
```

**Value**

data.frame of states with abbreviation and region

**Examples**

```
## Not run:  
list_states()  
  
## End(Not run)
```

---

lookup_airport	<i>Lookup airport code (IATA and ICAO code). weatherunderground API might not recognize the IATA/ICAO code for smaller airports.</i>
----------------	--

---

**Description**

Lookup airport code (IATA and ICAO code). weatherunderground API might not recognize the IATA/ICAO code for smaller airports.

**Usage**

```
lookup_airport(location, region = NULL)
```

**Arguments**

location	location string
region	region string

**Value**

data.frame of matching airport name and IATA/ICAO codes

**Examples**

```
## Not run:
lookup_airport("Honolulu")
lookup_airport("Pyongyang")
lookup_airport("Portland", region = "Los_Angeles")

## End(Not run)
```

---

lookup_country_code	<i>Lookup ISO country code weatherunderground API doesn't recognize iso codes uniformly for every country.name</i>
---------------------	--

---

**Description**

Lookup ISO country code weatherunderground API doesn't recognize iso codes uniformly for every country.name

**Usage**

```
lookup_country_code(name, region = NULL)
```

**Arguments**

name            Name of country  
 region         Geographic region

**Value**

data.frame of country codes

**Examples**

```
## Not run:
lookup_country_code("Korea")
lookup_country_code("Guinea", region = "Africa")

## End(Not run)
```

---

measurement\_exists     *Check if a variable exists for a PWS. If not set the value to -9999*

---

**Description**

Check if a variable exists for a PWS. If not set the value to -9999

**Usage**

```
measurement_exists(x, class = "numeric")
```

**Arguments**

x                the value to check  
 class            a character given the desired class for the variable

---

nonempty             *return object, or NA for length 0 (NULL) objects*

---

**Description**

return object, or NA for length 0 (NULL) objects

**Usage**

```
nonempty(x)
```

**Arguments**

x                the object to cast as numeric

**Value**

value of type double

---

planner	<i>Weather summary based on historical information between the specified dates</i>
---------	--

---

**Description**

Weather summary based on historical information between the specified dates

**Usage**

```
planner(location, use_metric = FALSE, start_date = "0501",
        end_date = "0531", key = get_api_key(), raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
start_date	Start date as MMDD
end_date	End date as MMDD
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df

**Examples**

```
## Not run:
planner(set_location(territory = "Hawaii", city = "Honolulu"),
        start_date = "0101", end_date = "0131")
planner(set_location(territory = "Washington", city = "Seattle"),
        start_date = "01201", end_date = "1231")
planner(set_location(territory = "Louisiana", city = "New Orleans"),
        start_date = "0501", end_date = "0531")

## End(Not run)
```

---

rawtide	<i>Raw Tidal data with data every 5 minutes for US locations Tidal information only available for US cities. Units are in feet.</i>
---------	---

---

**Description**

Raw Tidal data with data every 5 minutes for US locations Tidal information only available for US cities. Units are in feet.

**Usage**

```
rawtide(location, key = get_api_key(), raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with time (epoch) and height

**Examples**

```
## Not run:
rawtide(set_location(territory = "Hawaii", city = "Honolulu"))
rawtide(set_location(territory = "Washington", city = "Seattle"))
rawtide(set_location(territory = "Louisiana", city = "New Orleans"))

## End(Not run)
```

---

satellite	<i>Returns image URL for satellite imagery</i>
-----------	--

---

**Description**

Returns image URL for satellite imagery

**Usage**

```
satellite(location, key = get_api_key(), raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

URL to satellite imagery

**Examples**

```
## Not run:
satellite(set_location(territory = "Hawaii", city = "Honolulu"))
satellite(set_location(territory = "Washington", city = "Seattle"))
satellite(set_location(territory = "Louisiana", city = "New Orleans"))

## End(Not run)
```

---

set\_api\_key

*Sets the wunderground API key*

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**Description**

Sets the wunderground API key

**Usage**

```
set_api_key(key)
```

**Arguments**

key	wunderground API key
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**Value**

API key

**Examples**

```
## Not run:
set_api_key("1a2b3c4d")

## End(Not run)
```



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set_location	<i>Specifies location of request</i>
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### Description

This is a wrapper function that will validate and format location strings for requesting data from weather underground.

### Usage

```
set_location(zip_code = NULL, territory = NULL, city = NULL,  
            airport_code = NULL, PWS_id = NULL, lat_long = NULL, autoip = NULL)
```

### Arguments

zip_code	zip code
territory	state if in US, otherwise country
city	city name
airport_code	IATA/ICAO airport code
PWS_id	personal weather station ID
lat_long	latitude and longitude, as a comma-separated string
autoip	location based on IP

### Value

formatted and validated location string

### Examples

```
set_location(zip_code = "90210")  
set_location(territory = "Hawaii", city = "Honolulu")  
set_location(territory = "Kenya", city = "Mombasa")  
set_location(airport_code = "SEA")  
set_location(PWS_id = "KMNCHASK10")  
set_location(lat_long="40.6892,-74.0445")  
set_location(autoip = "172.227.205.140")  
set_location()
```

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stop_for_error	<i>Detect and stop for any wunderground request errors</i>
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**Description**

Detect and stop for any wunderground request errors

**Usage**

```
stop_for_error(httr_parsed_req)
```

**Arguments**

httr_parsed_req	httr request object
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tide	<i>Tidal information for a location within the USA. Tidal information only available for US cities. Units are in feet.</i>
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**Description**

Tidal information for a location within the USA. Tidal information only available for US cities. Units are in feet.

**Usage**

```
tide(location, key = get_api_key(), raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df with date, height and type

**Examples**

```
## Not run:
tide(set_location(territory = "Hawaii", city = "Honolulu"))
tide(set_location(territory = "Washington", city = "Seattle"))
tide(set_location(territory = "Louisiana", city = "New Orleans"))

## End(Not run)
```

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webcam	<i>Returns locations of personal weather stations along with URLs for their webcam images</i>
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---

**Description**

Returns locations of personal weather stations along with URLs for their webcam images

**Usage**

```
webcam(location, key = get_api_key(), raw = FALSE, message = TRUE)
```

**Arguments**

location	location set by set_location
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL

**Value**

tbl\_df of weather stations including: handle, id, city, state, country, tz, lat, lon, last updated, image URL and cam URL.

**Examples**

```
## Not run:
webcam(set_location(territory = "Hawaii", city = "Honolulu"))
webcam(set_location(territory = "Iowa", city = "Iowa City"))
webcam(set_location(territory = "Iraq", city = "Baghdad"))

## End(Not run)
```

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wunderground_request	<i>wunderground api requests</i>
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**Description**

wunderground api requests

**Usage**

```
wunderground_request(request_type, location, date = NULL,
  key = get_api_key(), message = TRUE)
```

**Arguments**

request_type	Request type TODO::list all types
location	locations set of set_location
date	Date, only applicable for history requests
key	wunderground API key
message	if TRUE print out requested

**Value**

httr request object

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yesterday	<i>Weather data for yesterday</i>
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**Description**

Weather data for yesterday

**Usage**

```
yesterday(location, use_metric = FALSE, key = get_api_key(), raw = FALSE,
           message = TRUE, summary = FALSE)
```

**Arguments**

location	location set by set_location
use_metric	Metric or imperial units
key	weather underground API key
raw	if TRUE return raw httr object
message	if TRUE print out requested URL
summary	If TRUE return daily summary otherwise hourly data

**Value**

tbl\_df with date, temperature, dew point, humidity, wind speed, gust and direction, visibility, pressure, wind chill, heat index, precipitation, condition, fog, rain, snow, hail, thunder, tornado

**Examples**

```
## Not run:
yesterday(set_location(territory = "Hawaii", city = "Honolulu"))
yesterday(set_location(territory = "Iowa", city = "Iowa City"))
yesterday(set_location(territory = "Iraq", city = "Baghdad"))
yesterday(set_location(territory = "IR", city = "Tehran"), summary = TRUE)

## End(Not run)
```

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