

# Package ‘weatherr’

August 26, 2015

**Type** Package

**Title** Tools for Handling and Scrapping Instant Weather Forecast Feeds

**Version** 0.1.1

**Date** 2015-08-25

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**Description** Handle instant weather forecasts and geographical information. It combines multiple sources of information to obtain instant weather forecasts.

**Depends** ggmap, lubridate, RJSONIO, XML

**License** GPL (>= 2)

**NeedsCompilation** no

**Repository** CRAN

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weatherr-package	<i>Tools for handling and scrapping instant weather feeds</i>
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## Description

Handling and scrapping instant weather forecasts and geographical information

## Details

Package: weatherr  
Type: Package  
Version: 0.1.1  
Date: 2015-08-25  
License: GPL (>=2)

**Author(s)**

Stan Yip

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ggele

*Elevation of a set of specific locations*

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**Description**

Obtaining elevation at a set of given locations. Note that using this function you are agreeing to the Google Maps API Terms of Service at <https://developers.google.com/maps/terms>.

**Usage**

```
ggele(lat=0,lon=0, output=c('elevation','elevation/resolution','all'))
```

**Arguments**

lat, lon	numeric objects. latitude and longitude of a location in decimal degrees
output	elevation; elevation and its corresponding resolution or the original JSON output (in a list format)

**Value**

If output="elevation", a numeric vector is returned with the elevation in metres.

If output="elevation/resolution", a data frame is return with the elevation and its corresponding resolution in metres.

If output="all", a list is returned with full JSON query output.

**Author(s)**

Stan Yip

**Examples**

```
# Get the elevation of a location in Hong Kong  
ggele(lat=22.39643,lon=114.1095)
```

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locationforecast	<i>Weather forecast for a specified place</i>
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### Description

Obtaining weather forecasts from api.met.no Locationforecast service. Note that using this function you are agreeing to the Norwegian Meteorologisk Institutt conditions of service at [http://api.met.no/conditions\\_service.html](http://api.met.no/conditions_service.html). Also, using the location query option you are agreeing to the Google Maps API Terms of Service at <https://developers.google.com/maps/terms>.

### Usage

```
locationforecast(lat,lon,elevation=NULL,location=NULL,exact=TRUE,tz=Sys.timezone())
```

### Arguments

lat, lon	numeric objects. latitude and longitude of a location in decimal degrees
elevation	optional numeric object. metres above sea level
location	optional character object. query latitude, longitude and elevation of the location using Google map service
exact	logical, indicating an exact time or an interval period forecasts
tz	time zone format. system time zone by default

### Details

If exact=FALSE, precipitation and temperature range can be obtained since these are computed as interval quantities.

### Value

If exact=TRUE, A data frame is returned with the following quantities:

time	time of the forecasts
temperature	temperature (Celcius)
windDirection	wind direction (degree)
windSpeed_mps	wind speed (mps)
windSpeed_beaufort	wind speed (Beaufort scale)
windSpeed_name	wind speed category
windGust	gust (mps)
humidity	humidity (percentage)
pressure	atomospheric pressure (hPa)
cloudiness	clouds cover (percentage)

lowClouds	low clouds cover (percentage)
mediumClouds	medium clouds cover (percentage)
highClouds	high clouds cover (percentage)
dewpointTemperature	dewpoint temperature (Celcius)

If exact=FALSE, A data frame is returned with the following quantities:

timefrom	the start time of interval for the forecasts
timeto	the end time of interval for the forecasts
precipitation	precipitation amount (mm)
minTemperature	minimum temperature in the interval (Celcius)
maxTemperature	maximum temperature in the interval (Celcius)
weather_id	weather category

**Author(s)**

Stan Yip

**Examples**

```
# Get exact time location forecast of Hong Kong
locationforecast(lat=22.39643,lon=114.1095)
# Get time interval location forecast of Malta
locationforecast(lat=35.9375,lon=14.37542,exact=FALSE)
# Get exact time location forecast of Cape Town, South Africa with timezone 'Africa/Johannesburg'
locationforecast(location='Cape Town, South Africa', tz='Africa/Johannesburg')
```

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