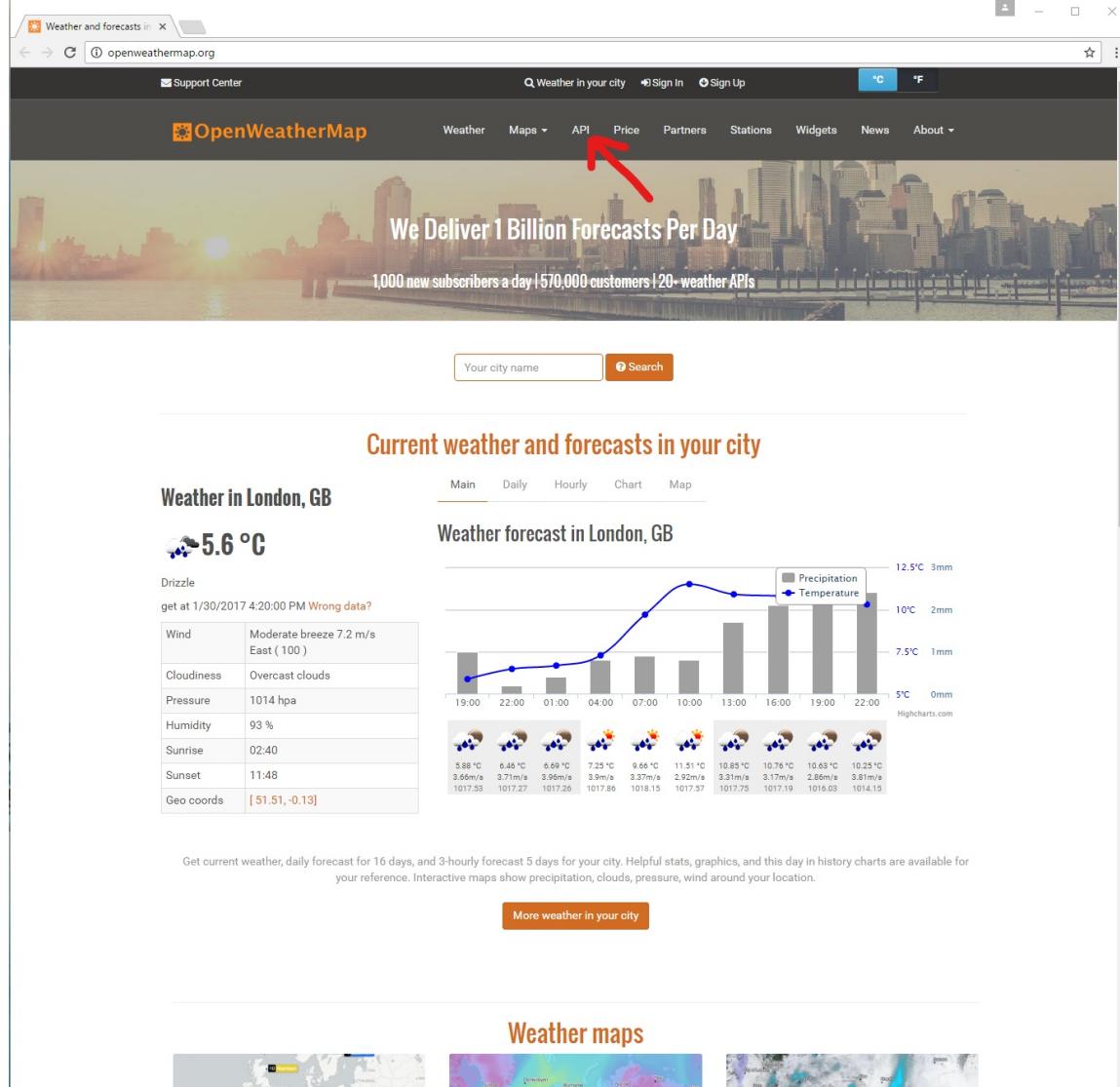


How to get an OpenWeatherMap ID

Follow this link to <http://openweathermap.org>

Click on API near the middle of the top of the web page.



The screenshot shows the OpenWeatherMap homepage. At the top, there is a navigation bar with links for Weather, Maps, API, Price, Partners, Stations, Widgets, News, and About. A red arrow points to the 'API' link. Below the navigation bar is a banner with the text 'We Deliver 1 Billion Forecasts Per Day' and '1,000 new subscribers a day | 570,000 customers | 20+ weather APIs'. Below the banner is a search bar with the placeholder 'Your city name' and a 'Search' button. The main content area has a title 'Current weather and forecasts in your city' and a sub-section 'Weather in London, GB'. It displays the current temperature as 5.6 °C with a drizzle icon. Below this are several weather statistics in a table:

Wind	Moderate breeze 7.2 m/s East (100)
Cloudiness	Overcast clouds
Pressure	1014 hpa
Humidity	93 %
Sunrise	02:40
Sunset	11:48
Geo coords	[51.51, -0.13]

Below the weather stats is a section titled 'Weather forecast in London, GB' featuring a chart from Highcharts.com. The chart shows temperature and precipitation over a 16-hour period from 19:00 to 22:00. The temperature starts at 5.88°C and rises to 12.5°C by 22:00. Precipitation is shown as grey bars, with a peak of 3mm at 16:00. Below the chart are 16 weather icons corresponding to each hour, with their respective temperatures and wind speeds listed:

Time	Icon	Temperature (°C)	Wind Speed (m/s)
19:00	Cloudy	5.88	3.56
20:00	Cloudy	6.46	3.71
21:00	Cloudy	6.69	3.96
22:00	Cloudy	7.25	3.98
00:00	Snow	9.66	3.37
01:00	Snow	11.51	2.92
02:00	Snow	10.85	3.31
03:00	Snow	10.76	3.17
04:00	Snow	10.69	2.86
05:00	Snow	10.25	3.81
06:00	Snow	10.17	1.57
07:00	Snow	10.17	1.57
08:00	Snow	10.17	1.57
09:00	Snow	10.17	1.57
10:00	Snow	10.17	1.57
11:00	Snow	10.17	1.57
12:00	Snow	10.17	1.57
13:00	Snow	10.17	1.57
14:00	Snow	10.17	1.57
15:00	Snow	10.17	1.57
16:00	Snow	10.17	1.57
17:00	Snow	10.17	1.57
18:00	Snow	10.17	1.57
19:00	Snow	10.17	1.57
20:00	Snow	10.17	1.57
21:00	Snow	10.17	1.57
22:00	Snow	10.17	1.57

At the bottom of the page, there is a section titled 'Weather maps' with three small map thumbnails.

On the left side, under **Current weather data**, click the **Subscribe** button.

The screenshot shows the OpenWeatherMap API documentation page. At the top, there's a navigation bar with links for Support Center, Weather, Maps, API, Price, Partners, Stations, Widgets, News, and About. Below the navigation bar, the main content area is divided into several sections:

- Current weather data**: This section includes a red arrow pointing to the "Subscribe" button. Below it is a list of bullet points:
 - Access current weather data for any location including over 200,000 cities
 - Current weather is frequently updated based on global models and data from more than 40,000 weather stations
 - Data is available in JSON, XML, or HTML format
 - Available for Free and all other paid accounts
- 5 day / 3 hour forecast**: Includes a "Subscribe" button. Below it is a list of bullet points:
 - 5 day forecast is available at any location or city
 - 5 day forecast includes weather data every 3 hours
 - Forecast is available in JSON and XML
 - Available for Free and all other paid accounts
- 16 day / daily forecast**: Includes a "Subscribe" button. Below it is a list of bullet points:
 - 16 day forecast is available at any location or city
 - 16 day forecasts includes daily weather
 - Forecast is available in JSON and XML
 - Available for Developer, Professional and Enterprise accounts
- Historical data**: Includes a "Subscribe" button. Below it is a list of bullet points:
 - Through our API we provide city historical weather data for 20,000+ cities
 - Historical data is available for 1 month previous in Starter account, for 1 year previous in Medium accounts, and is 5 and more year previous in Advanced accounts
- UV Index BETA**: Includes a "Subscribe" button. Below it is a list of bullet points:
 - Current UV index (Clear Sky) and historical data are available for any geo location (lat/lon)
 - Interpreting of the UV Index and recommended protection are provided
 - Data is available in JSON
 - Available for Professional and Enterprise accounts
- Weather map layers**: Includes a "Subscribe" button. Below it is a list of bullet points:
 - Weather maps include precipitation, clouds, pressure, temperature, wind, and more
 - Connect our weather maps to your mobile applications and websites
 - Use as layers in Direct Tiles, OpenLayers, Leaflet, and Google Maps
 - Available for Free and all other paid accounts
- Weather stations NEW!**: Includes a "Subscribe" button. Below it is a list of bullet points:
 - API for managing your personal weather stations
 - Creation of the station and measurements transfer
 - Receiving the aggregated measurements from the station
 - Available for Free and all other paid accounts
- Bulk downloading**: Includes a "Subscribe" button. Below it is a list of bullet points:
 - We provide number of bulk files with current weather and forecasts
 - Current weather bulk is available for 20,000 cities
 - Variety of hourly and daily forecast bulks depends on frequency of data updating
 - Available for Professional and Enterprise accounts
- Air pollution BETA**: Includes a "Subscribe" button. Below it is a list of bullet points:
 - We provide current and historical (since November 2015) data on air pollution with main indexes of CO, O₃, N₂O and S₀2.
 - Air pollution: ways to forecast and calculate it
- Weather alerts NEW!**: Includes a "Subscribe" button.

Click the **Get API key and Start** in the **Free** column.

The screenshot shows the OpenWeatherMap price list page. At the top, there's a navigation bar with links for Support Center, Sign In, Sign Up, and temperature units (°C and °F). Below the navigation is the OpenWeatherMap logo and a menu bar with Weather, Maps, API, Price, Partners, Stations, Widgets, News, and About.

The main content area is titled "Price" and features a sub-header: "Subscribe to current weather, forecasts, and historical data collections and enjoy our fast simple API!". Below this is a section titled "Current weather and forecasts collection".

The central feature is a comparison table:

	Free	Startup	Developer	Professional	Enterprise
Price Price is fixed, no other hidden costs.	Free	40 USD / month	180 USD / month	470 USD / month	2,000 USD / month
Subscribe	Get API key and Start	Subscribe	Subscribe	Subscribe	Subscribe
Calls per minute (no more than)	60	600	3,000	30,000	200,000
Current weather API	✓	✓	✓	✓	✓
5 days/3 hour forecast API	✓	✓	✓	✓	✓
16 days/daily forecast API	-	-	✓	✓	✓
Weather maps API	✓	✓	✓	✓	✓
UV index API	-	-	-	✓	✓
Bulk download	-	-	-	✓	✓
Service					
Availability	95.0%	95.0%	99.5%	99.5%	99.9%
SLA	-	-	-	-	✓
Weather data update	< 2 hours	< 2 hours	< 1 hour	< 10 min	< 10 min
API lifetime support	Current version	Current version	Current version	All versions	All versions
SSL	-	-	✓	✓	✓
License for maps, APIs, and other products	CC BY-SA 4.0	CC BY-SA 4.0	CC BY-SA 4.0	CC BY-SA 4.0	CC BY-SA 4.0 or custom
License for data and database	ODbL	ODbL	ODbL	ODbL	ODbL or custom
Tech support	Helpdesk	Helpdesk	Helpdesk	Direct	Direct 24x7

Below the table, there's a section titled "Historical weather collection".

Click on the **Signup** button under **How to get API key (APPID)**.

The screenshot shows the OpenWeatherMap API landing page. At the top, there's a navigation bar with links for Support Center, Weather, Maps, API, Price, Partners, Stations, Widgets, News, and About. Below the navigation is the OpenWeatherMap logo. The main content area has a heading "How to start". Under this, there's a paragraph about getting an API key, followed by a section titled "How to get API key (APPID)". A red arrow points to the "Sign up" button, which is highlighted in orange. Below this, there's another section titled "How to use API key in API call". Further down, there's a section titled "How to get accurate API response" with a numbered list of four items. At the bottom of the page, there's a green button labeled "GET WEATHER".

To get access to weather API you need an API key whatever account you choose from Free to Enterprise.

How to get API key (APPID)

[Sign up](#) to get unique API key on your account page

How to use API key in API call

Description:

To get access to weather API you need an API key whatever account you chose from Free to Enterprise.

Activation of an API key for Free and Startup plans takes 10 minutes. For other tariff plans it is 10 to 60 minutes.

We keep right to not to process API requests without API key.

API call:

[http://api.openweathermap.org/data/2.5/forecast/city?id=524901&APPID=\(APIKEY\)](http://api.openweathermap.org/data/2.5/forecast/city?id=524901&APPID=(APIKEY))

Parameters:

APPID {APIKEY} is your unique API key

Example of API call:

<http://api.openweathermap.org/data/2.5/forecast/city?id=524901&APPID=1111111111>

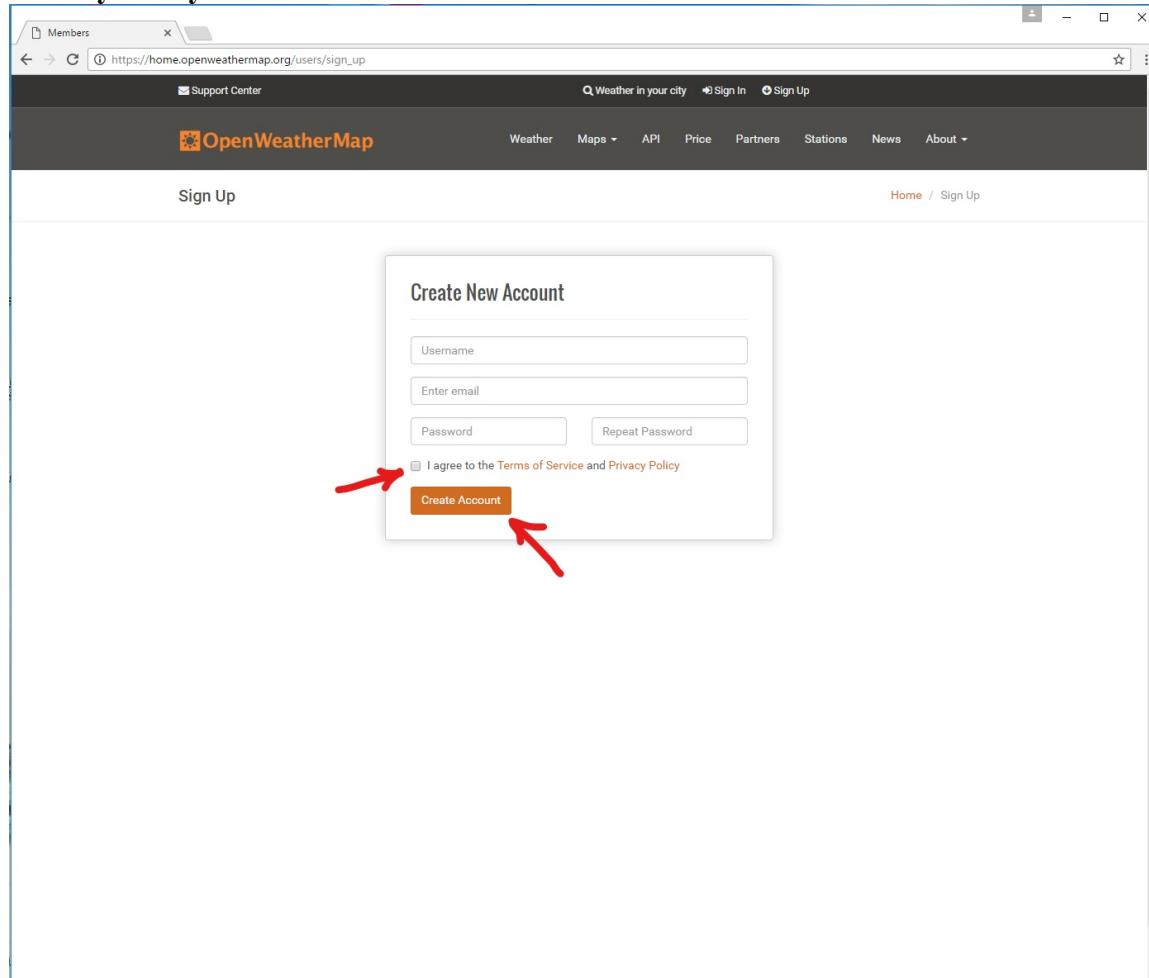
How to get accurate API response

- 1 Do not send requests more than 1 time per 10 minutes from one device/one API key. Normally the weather is not changing so frequently.
- 2 Use the name of the server as api.openweathermap.org. Please never use the IP address of the server.
- 3 Call API by city ID instead of city name, city coordinates or zip code. In this case you get precise respond exactly for your city.
- 4 Free account has limitation of capacity and data availability. If you do not get respond from server do not try to repeat your request immediately, but only after 10 min. Also we recommend to store your previous request data.

Find more details in our [price-list](#) or contact us via [Support Center](#).

Get Your Weather Forecast. [GET WEATHER](#)

Fill in all the fields. When finished, check the **I agree to the Terms of Service and Privacy Policy** checkbox. Then click on the **Create Account** button.



Now check your email inbox for an email from the OWM team. Open the email. In the middle of the page is **Example of API call**. Below that is the example. Everything after **APPID=** to the end of the underlined text is your API key. I have removed my API key from the email pictured below. Your email will have your API key.

The screenshot shows a Gmail inbox with the following details:

- Subject:** OpenWeatherMap Create Account
- To:** OWM Team <info@openweathermap.org>
- Date:** 4:12 PM (11 minutes ago)
- Message Preview:** Thank you for the subscription to OpenWeatherMap Free service!
- Message Content:**
 - Dear Customer,
 - Your account and API key are activated for operating with OpenWeatherMap Free weather services.
 - Endpoint for any API calls
api.openweathermap.org
 - Example of API call
api.openweathermap.org/data/2.5/weather?q=London%2Cuk&APPID=12345678901234567890123456789012
 - API documentation
<http://openweathermap.org/api>
 - Contact our Helpdesk info@openweathermap.org for any technical issues.
- Warning Box:** Please, always use your API keys as &APPID= in any queries. We will refuse calls without API key or unauthorized API key. Read more <http://openweathermap.org/appid#use>
- Image:** A small thumbnail image of a colorful satellite map.
- Text:** NEW! Try free APIs to satellite images (beta) <http://owm.io/vanel/language>
- Signature:** Best regards,

Copy and paste the API key into the *WeatherStation.ino* file. Paste it after the text “**“owmkey=”**”. For example; “**“owmkey=dixs635k9lobb”** After the text “**“owmzip=”** add your zip code followed by a comma and your country. For example; “**“owmzip=55555,us”**”.

