

documentation

GET get

```
https://api.openweathermap.org/data/3.0/onecall?lat={33.44}&lon={-94.04}&exclude={part}&appid={4e368d776582acbd2e8eb00fd99d286d}
```

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Product concept

Get essential weather data, short-term and long-term forecasts and aggregated weather data is easy with our OpenWeather **One Call API 3.0**. This product designed to ensure **easy migration from the Dark Sky API**.

One Call API 3.0 contains 4 endpoints and provides access to various data:

- and government weather alerts
 - minute forecast for 1 hour
 - hourly forecast for 48 hours
 - daily forecast for 8 days
- **Weather data for any timestamp** for 46+ years historical archive and 4 days ahead forecast
- **Daily aggregation** of weather data for 46+ years archive and 1.5 years ahead forecast
- **Weather overview** with a human-readable weather summary for today and tomorrow's forecast, utilizing OpenWeather AI technologies

One Call API 3.0 is based on the proprietary **OpenWeather Model** and is updated every 10 minutes. Thus, in order to receive the most accurate and up-to-date weather data, we recommend you request One Call API 3.0 every 10 minutes.

EndFragment

PARAMS

lat	{33.44}
	Latitude, decimal (-90; 90). If you need the geocoder to automatic convert city names and zip-codes to geo coordinates and the other way around, please use our Geocoding API
lon	{-94.04}
	Longitude, decimal (-180; 180). If you need the geocoder to automatic convert

city names and zip-codes to geo coordinates and the other way around, please use our Geocoding API

exclude	<code>{part}</code> By using this parameter you can exclude some parts of the weather data from the API response. It should be a comma-delimited list (without spaces).
appid	<code>{4e368d776582acbd2e8eb00fd99d286d}</code> Your unique API key (you can always find it on your account page under the "API key" tab)

POST post

`https://api.openweathermap.org/data/3.0/onecall?lat={33.44}&lon={-94.04}&exclude={part}&appid={4e368d776582acbd2e8eb00fd99d286d}`

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How to start

1. [Sign up](#) to OpenWeather service in case you haven't got your [OpenWeather API key](#) yet.
2. Follow the [pricing page](#) to learn details about the price.
One Call API 3.0 is included in the separate subscription only and allows you to pay only for the number of API calls made to this product. Please find more details on the [pricing page](#).
3. Once you subscribe to One call API 3.0, 2000 API calls per day to this product are set up by default. If you want to change this limit, please go to the ["Billing plans" tab](#) in your Personal account to update standard settings. You can find more information on the [FAQ](#) or ask [Ulla, OpenWeather AI assistant](#).
4. Select the desired type of data ([Current and forecasts weather data](#), [Weather data for timestamp](#), [Daily aggregation](#), [Weather overview](#)) and make an API call according to relevant tech documentation section, remembering to add your key to each call.

EndFragment

PARAMS

lat	<code>{33.44}</code>
lon	<code>{-94.04}</code>
exclude	<code>{part}</code>
appid	<code>{4e368d776582acbd2e8eb00fd99d286d}</code>

DELETE delete

https://api.openweathermap.org/data/3.0/onecall?lat={33.44}&lon={-94.04}&exclude={part}&appid={4e368d776582acbd2e8eb00fd99d286d}

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Current and forecasts weather data

To get access to current weather, minute forecast for 1 hour, hourly forecast for 48 hours, daily forecast for 8 days and government weather alerts, please use this section of the documentation.

If you are interested in other functionality on One Call API 3.0, please check [Product concept](#) to follow the right section.

How to make an API call

API call

```
https://api.openweathermap.org/data/3.0/onecall?lat={lat}&lon={lon}&exclude={part}&appid={API key}
```

EndFragment

PARAMS

lat	{33.44}
lon	{-94.04}
exclude	{part}
appid	{4e368d776582acbd2e8eb00fd99d286d}

PATCH patch

https://api.openweathermap.org/data/3.0/onecall?lat={33.44}&lon={-94.04}&exclude={part}&appid={4e368d776582acbd2e8eb00fd99d286d}

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Weather data for timestamp

To learn about how get access to weather data for any timestamp from 1st January 1979 till 4 days ahead forecast, please use this section of the documentation.

If you are interested in other functionality on One Call API 3.0, please check [Product concept](#) to follow the right section.

How to make an API call

API call

https://api.openweathermap.org/data/3.0/onecall/timemachine?lat={lat}&lon={lon}&dt={time}&appid= {API key}

Parameters
lat
lon
dt
appid
units
lang

EndFragment

PARAMS

lat	{33.44}
lon	{-94.04}
exclude	{part}
appid	{4e368d776582acbd2e8eb00fd99d286d}

PUT put

https://api.openweathermap.org/data/3.0/onecall?lat={33.44}&lon={-94.04}&exclude={part}&appid={4e368d776582acbd2e8eb00fd99d286d}

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API errors

Structure of API errors

In case of incorreccted API call you will receive API error response. Error response payload returned for all types of errors with the structure below.

EndFragment

PARAMS

lat	{33.44}
lon	{-94.04}
exclude	{part}
appid	{4e368d776582acbd2e8eb00fd99d286d}