

Surf Report API Reference

Resource Description

Provides information regarding surfing conditions, such as the surf height, water temperature, wind speed, and tide. Also makes surfing recommendations based on the conditions.

Endpoints and Methods

GET surfreport/{beachId}

This endpoint retrieves the surfing conditions for the beach corresponding to the given **beachId**. A list of the beaches for which a surf report is available can be found [here](#).

Parameters

Path Parameter

Path parameter	Description
{beachId}	A unique value identifying the beach for which you want the surf report. The valid beachId values are listed here .

Query Parameters

Query string parameter	Required/optional	Description	Data type
appid	Required	Your unique API key (you can find it on your account page under the "API key" tab).	String
days	Optional	Number of days for which information is provided. Maximum is 7. Default is 3.	Integer
time	Optional	Time of day corresponding to timezone of beach in question. If you include the time, you will receive information only for that hour. Otherwise, you will receive information for 3 days, with the conditions listed by the hour for each day.	Integer. Format is Unix epoch time (milliseconds since 1970).
units	Optional	Units of measurement (imperial or metric). Default option is imperial.	String

Request Example

Try the SurfReport API by copying and pasting the following example request, which provides the 3-day surf report for the beach whose **beachId** is **12345**. The report is in metric units.

```
curl -I -X GET "https://api.openweathermap.org/data/2.5/surfreport/12345?
appid=APIKEY&days=3&units=metric"
```

NOTE: Remember to replace **APIKEY** in the example above with your unique API key.

Response Example and Schema

A sample response from the `surfreport/{beachId}` endpoint is shown below:

```
{
  "surfreport": [
    {
      "beach": "Santa Cruz",
      "monday": {
        ...

        "1pm": {
          "tide": 5,
          "wind": 8,
          "watertemp": 27,
          "surfheight": 5,
          "recommendation": "Conditions are perfect. Go surfing!"
        },
        "2pm": {
          "tide": -1,
          "wind": 1,
          "watertemp": 10,
          "surfheight": 3,
          "recommendation": "Conditions are okay. It's your choice!"
        },
        "3pm": {
          "tide": -1,
          "wind": 5,
          "watertemp": 4,
          "surfheight": 1,
          "recommendation": "Conditions are unsuitable. Avoid surfing!"
        }
      }
    }
  ]
}
```

Response Definitions

Response item	Description	Data type
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Response item	Description	Data type
<code>beach</code>	The beach corresponding to the beach ID used in the request. The beach name is the official name as described in the National Park Service Geodatabase.	String
<code>day</code>	The day of the week selected. Information for a maximum of 7 days can be returned in the response. The default is 3 days.	Object
<code>{day}/{time}</code>	The time for the conditions returned. If you do not include the time parameter in your request, you will receive information for all hours of the day.	String
<code>{day}/{time}/tide</code>	The tide level at the beach for the given day and time. This is a measure of the distance inland that the water rises to and can be a positive or negative number. When the tide is out, the number is negative. When the tide is in, the number is positive. The zero (0) point reflects the condition when the tide is neither going in nor out but is in transition between the two states.	Integer
<code>{day}/{time}/wind</code>	The wind speed at the beach as measured in miles per hour (also know as knots) (imperial) or meters per second (metric). Wind affects the surf height and hence the general wave conditions. Wind speeds of more than 15 knots (or 8 meters per second) result in unsuitable surf conditions because of white caps and choppy waters.	Float
<code>{day}/{time}/watertemp</code>	The temperature of the water in Fahrenheit (imperial) or Celsius (metric). Water temperatures lower than 70 F (or 22 C) usually require a wetsuit. Temperatures below 60 F (or 15 C) require a wetsuit at least 3 mm in thickness and preferably booties to stay warm.	Float
<code>{day}/{time}/surfheight</code>	The height of the waves as measured in feet (imperial) or centimeters (metric). A surf height of 3 feet (or 92 cm) is the minimum required for surfing. However, if the surf height exceeds 10 feet (or 305 cm), it is unsafe to surf.	Float
<code>{day}/{time}/recommendation</code>	An overall recommendation based on an algorithm that combines the various factors: tide, wind speed, water temperature, and surf height. Based on the conditions, three responses are possible: (1) "Conditions are perfect. Go surfing!"; (2) "Conditions are okay. It's your choice!"; and (3) "Conditions are unsuitable. Avoid surfing!"	String