Sample Context: **I created this sample as part of a Documenting APIs course that I took. I created this sample in Markdown but converted it to PDF to make distribution easier. Also, it renders prettier this way than it did on my Hugo/Coder website.**

SurfReport API Reference

Resource Description

SurfReport contains information about surfing conditions like surf height, tide, wind, and water temperature. It also contains a recommendation about whether to go surfing.

Endpoints and Methods

> **GET** `/surfreport/{beachId}`

This endpoint checks the surfing conditions for a particular beach. Beaches available are listed on our beach list.

Parameters

Path Parameters

Path parameter	Description
`{beachId}`	This parameter gets you to the SurfReport endpoint. You can view available beaches on our beach list.

Query String Parameters

Query string parameter	Required/optional	Description	Type
days	Optional	The number of days to include in the response (max is 7).	Integer
hour	Optional	The **current** hour requested will be given.	Integer (Unix format (ms since 1970), GMT or UTC)
units	Optional	The type of unit you wish to display. Imperial renders feet and knots; metric renders centimeters and kilometers	Integer

Request Example

Try out SurfReport API with the following sample for a two-day surf report of 90265 with imperial units.

```
curl -I -X GET "https://api.openweathermap.org/data/2.5/surfreport?zip=90265&appid=APIKEY&units=imperial&days=2"
```

[!NOTE] Be sure to replace `APIKEY` with your API Key.

Response Example and Schema

The following is a json example response from the `surfreport/{beachId}` endpoint:

```
{
    "surfreport": [
        {
            "beach": "Malibu",
            "monday": {
                "1pm": {
                    "tide": 5,
                    "wind": 15,
                    "watertemp": 60,
                    "surfheight": 5,
                    "recommendation": "Go surfing! Woo!"
                },
                "2pm": {
                    "tide": -1,
                    "wind": 1,
                    "watertemp": 50,
                    "surfheight": 3,
                    "recommendation": "Surfing conditions are okay, not great"
                }
                ...

            }
        }
    ]
}
```

Response definitions

Response item	Description	Data type
beach	The beach you selected based on the beach ID in the request. The beach name is the official name as described in the National Park Service Geodatabase.	String
{day}	The day of the week you selected. A maximum of 7 days can be requested. However, the default is 3.	Object
{hour}	The time for the conditions. This item is included only if you include an hour parameter in the request.	String

Response item	Description	Data type
{day/time}/tide	Tide is the level of the sea at a given point in time. Tide can be a positive or negative number. When the tide is in, the number is positive. When the tide is out, the number is negative. The 0 point reflects the line when the tide is neither going in nor out.	Integer
{day/time}/wind	The wind speed at the beach, measured in nautical miles per hour (knots). Wind speeds of more than 15 knots make sure conditions undesirable because the wind creates choppy waters.	Integer
{day/time}/watertemp	The temperature of the water in either Fahrenheit or Celsius depending on the type of unit you specified. Water temperatures below 70 F usually require you to wear a swimsuit. With temperatures below 60 F, you will need at least a 3mm wetsuit and preferably booties to stay warm.	Integer
{day/time}/surfheight	The height of the waves in either feet or centimeters depending on the type of unit you specified. A surf height of 3 feet is the minimum size needed for surfing. If the surf height exceeds 10 feet, it is not safe to surf.	Integer
{day/time}/recommendation	An overall recommendation based on a combination of the various factors (tide, wind, watertemp, surfheight). Three responses are possible: 1) "Go surfing! Woo!", 2) "Surfing conditions are just okay, not great.", and 3) "Not a good day for surfing. Sorry..." Each of the three factors is scored with a maximum of 33.33 points, depending on the ideal for each element. The three elements are combined to form a percentage. 0% to 59% yields response 3, 60% to 80% yields response 2, and 81% to 100% yields response 1.	String