

Global [Forecast] 8 weeks ahead (weekly) API

It returns weekly forecast values up to 8 weeks ahead.

Specify the latitude and longitude in a request, and the data for the grid that includes the specified point will be retrieved.

Data

Coverage (area)	Land areas except Greenland, between northern latitude of 72 degrees and south latitude 57degrees
Coverage (time)	From the current week to 8 weeks ahead in local time
Grid size	lat 0.25 degree and lon 0.25 degree
Update time	2 times/week (around 13:00 JST on Tuesdays and Fridays)

URL

/v1/ovsmesh/forecasts/pp/weekly/point/{point}.json

Method

GET

Parameter

Name	Parameters	Required	Type	Notes
lat, lon	point	Required	Path Parameters	Latitude and longitude comma delimited. World geodetic system decimal, e.g., 35.68944,139.691670.
First day of the week	firstday	Option	Query Parameters	The first day of the week, specify as MON or SUN. If omitted, MON is used.

Example of API call

Point(lat, lon)

<endpoint>/v1/ovsmesh/forecasts/pp/weekly/point/35.68944,139.691670.json?firstday=MON

Response

Returns weekly forecast data in the result area.

Item	Type	Notes	
mesh_code	character	7-digit number, e.g., 2170559. Proprietary code of WeatherDataAPI, commonly available in each API.	
reference_time	character	UTC	
initial_time	character	UTC	
local_time	character	Time difference from UTC, e.g., utc+09:00	
elevation	character	Elevation of the grid to be used for forecasting. Unit: m	
data	start_date	character	First date of the week, e.g., 2022-05-09
	end_date	character	Last date of the week, e.g., 2022-05-15
	ave_temperature	actual number	Unit: 0.1°C
	ave_temperature_normal	actual number	Unit: 0.1°C

When it is invalid value for no data or uncalculable data, it returns blank.

Response Example

```
{
  "metadata": {
    "author": "Japan Weather Association",
    "title": "global_mesh_weekly_forecasts",
    "detail": "Success",
    "parameter": {
      "point": "35.68944,139.691670",
      "firstday": "MON",
      "format": "json"
    },
    "resultset": {
      "count": 9
    }
  },
  "results": {
    "mesh_code": "2170559",
    "reference_time": "2022-05-19T23:21:47Z",
    "initial_date": "2022-05-20",
    "local_time": "utc+09:00",
    "elevation": "-6",
    "first_day": "Monday",
    "data": [
      {
        "start_date": "2022-05-16",
        "end_date": "2022-05-22",
        "ave_temperature": 19.2
      }
    ]
  }
}
```

Error

API errors will be indicated in the status of the response header, code in the response (code), title (title) and detail (detail).

Response header	Response body		
status	code	title	detail
400	40001	Bad Request	longitude and latitude value is invalid. Review the API documentation to determine which parameters are valid for your request.
400	40003	Bad Request	meshcode value is invalid. Review the API documentation to determine which parameters are valid for your request.
400	40004	Bad Request	it contained an invalid parameter or parameter value. Review the API documentation to determine which parameters are valid for your request.
400	40005	Bad Request	time value is invalid. Review the API documentation to determine which parameters are valid for your request.
400	40006	Bad Request	one of the request inputs is out of range.
404	40401	Not Found	The requested operation failed because a resource associated with the request could not be found.
500	50001	Internal Server Error	The request failed due to an internal error.

Error Response Example

```
{
  "error": {
    "code": 40004,
    "title": "Bad Request",
    "detail": "it contained an invalid parameter or parameter value. Review the API documentation to determine which parameters are valid for your request."
  }
}
```