Should I Cycle API

# Document version

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| --- | --- | --- | --- |
| Date | Version | Author | Comments |
| 25 August 2014 | 0.1 | Matt Frear | Initial version |

# Cycle endpoint

GET

/v1/cycle?location=44418&airquality=wa7,wa9

## Arguments

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Required | Description |
| location | string | 1 | The location for weather results.  e.g. London,uk  We will call OpenWeatherMap’s forecast service with this info http://api.openweathermap.org/data/2.5/forecast?q=London,uk&units=metric |
| airquality | string | 0..n | A list of site codes to check for pollution.  We will call London Air’s API for each location.  A list of available locations is at:  <http://api.erg.kcl.ac.uk/AirQuality/Information/MonitoringSites/GroupName=London/Json>  e.g. Putney’s is WA7.  We will call:  <http://api.erg.kcl.ac.uk/AirQuality/Hourly/MonitoringIndex/SiteCode=WA7/Json> |

## Response

The response format will be JSON.

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| temp | int | Temperature in degrees Celcius |
| symbol | int | OpenWeatherMap’s symbol for the current condition |
| windDegree | int | The wind direction in degrees from 0 to 359 |
| windDirection | string | The 3 digit code for the wind direction, e.g. ENE |
| windSpeed | int | The wind speed in m/s |
| windStrength | string | A text description for the wind speed, e.g. “Moderate breeze” |
| pollution | [] | An array of pollution readings for each sensor requested |

A pollution reading looks like

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| name | string | The Sitecode requested, e.g. WA7 |
| speciesCode | string | The type of reading, e.g. NO2 |
| airQualityIndex | int | The level of pollution, where 1 = low and 10 = high |