Hacking the Dial for Different AQI Values

10/08/2019

INTRODUCTION

This is the procedure to hack the AirNowDrupal site so that you can set the dial to any desired AQI value for testing the dial rollovers and the Plan your Day features.

Big Picture:
    Use localhost copy of JSON Forecast data

PROCEDURE

1) Change Line 517 & Line 393 of reportingArea.js to use the sample JSON file by using this url:
    http://airnowgov.dev.dd:8083/dialtest.json
2) In the dialtest.json you can update the following values:
    a. Required. Set Observed Date to <today>.
    b. Required. Set Forecast Date to <tommorrow>.
    c. "dataType" is "O" for Observed and "F" for Forecast.
    d. Use these for the "Observed" or "Forecast" data:
        "aqi": 25, "category": "Good",
        "aqi": 75, "category": "Moderate",
        "aqi": 125, "category": "Unhealthy for Sensitive Groups",
        "aqi": 175, "category": "Unhealthy",
        "aqi": 250, "category": "Very Unhealthy",
        "aqi": 400, "category": "Hazardous",
        "aqi": 600, "category": "Beyond Index",
    e. Lat / Long values must stay the same so that they match Durham, NC.
    f. You should toggle the Parameter values, too. They are separate Terms in the Taxonomy.
        "parameter": "PM2.5",
        "parameter": "OZONE",
    g. If you add JSON structures (Pollutant values), then update the "recordSequence" value.
3) Go to the Durham, NC Dial page, unless you change the lat/long values.
    a. /?city=Durham&state=NC&country=USA
4) Observe the results.
5) Change values in the "dialtest.json" file.
6) Repeat previous step

Note: The text values for the Pop-ups are in the "Plan your Day Descriptions" taxonomy terms AND the pop-up (tippy) values are in "base.js".

dialtest.json

```
[
{
    "issueDate": "10/07/19",
    "validDate": "10/07/19",
    "recordSequence": 0,
    "timezone": "EDT",
    "time": "14:00",
    "dataType": "O",
    "isPrimary": true,
    "reportingArea": "Raleigh-Durham-Chapel Hill",
```

```
      "stateCode": "NC",
      "latitude": 35.878,
      "longitude": -78.787,
      "parameter": "PM2.5",
      "aqi": 600, "category": "Hazardous",
      "isActionDay": false,
      "discussion": "",
      "reportingAgency": "North Carolina DEQ - Division of Air Quality"
  },
        {
      "issueDate": "10/07/19",
      "validDate": "10/07/19",
      "recordSequence": 1,
      "timezone": "EDT",
      "time": "14:00",
      "dataType": "F",
      "isPrimary": true,
      "reportingArea": "Raleigh-Durham-Chapel Hill",
      "stateCode": "NC",
      "latitude": 35.878,
      "longitude": -78.787,
      "parameter": "PM2.5",
 "aqi": 175, "category": "Unhealthy",
      "isActionDay": false,
      "discussion": "",
      "reportingAgency": "North Carolina DEQ - Division of Air Quality"
  },
        {
      "issueDate": "10/08/19",
      "validDate": "10/08/19",
      "recordSequence": 2,
      "timezone": "EDT",
      "time": "14:00",
      "dataType": "F",
      "isPrimary": true,
      "reportingArea": "Raleigh-Durham-Chapel Hill",
      "stateCode": "NC",
      "latitude": 35.878,
      "longitude": -78.787,
      "parameter": "PM2.5",
 "aqi": 676, "category": "Hazardous",
      "isActionDay": false,
      "discussion": "",
      "reportingAgency": "North Carolina DEQ - Division of Air Quality"
  }
]
```

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DOCUMENT VERSION HISTORY

2019-10-08 v1 Initial version by Chris Wilkes