



المركز الوطني للأرصاد  
National Center for Meteorology  
المملكة العربية السعودية

National Center for Meteorology

# NCM EWS API

Version: 1.91

Anas Abu Alkheir / Anas Alhussein  
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**Note :** WADL can be found on ( <http://www.pme.gov.sa:8989/Help/Wadl> )

## Weather Information Service:

This service gives the ability to integrate with the National Center for Meteorology (NCM) weather data. By calling this service it will return a json output that represents the following:

- Current weather
- Today forecast
- 5 days Weather forecast

<b>Service Name:</b>	GetWeatherInfo
<b>URL:</b>	<a href="http://www.pme.gov.sa:8989/api/Weather/GetWeatherInfo">http://www.pme.gov.sa:8989/api/Weather/GetWeatherInfo</a>
<b>Type:</b>	RESTful / json
<b>Method:</b>	GET
<b>URL Params:</b>	“ccode” (Optional) = filter on specific city by passing its code from “Weather Cities” Table
<b>Data Params:</b>	None

## Json object description

Category	Parameter Name	Description
<b>City Information</b>	ID	Identity
	CityCode	The WMO City code See <a href="#">Weather Forecasting Cities</a>
	City	City Id
	City_Ar	City name (Arabic)
	City_En	City name (English)
<b>Current Weather</b>	CurrentDate	Current - Weather Last Update Date/Time - from the stations
	CurrentIcon	Current - Phenomena Class See <a href="#">Phenomena List</a>
	CurrentWeather_PhenomenonAr	Current - Phenomena (Arabic) - from the stations
	CurrentWeather_PhenomenonEn	Current - Phenomena (English) - from the stations
	CurrentHumidity	Current - Humidity - from the stations (%)
	Pressure	Current - Pressure - from the stations (hPa)
	CurrentTemperature	Current - Temperature - from the stations (°C)
	Windspeed	Current - Wind Speed - from the stations (km/h)
	Winddirection_Ar	Current - Wind Direction (Arabic) - from the stations
	Winddirection_EN	Current - Wind Direction (English) - from the stations
	Visibility	Current - Visibility - from the stations (km)
	Dewpoint	Current - Dewpoint - from the stations (°C)
<b>Today Forecast</b>	TodayDate	Today Forecast - Date
	Weather_PhenomenonAr	Today Forecast - Phenomena (Arabic)
	Weather_PhenomenonEn	Today Forecast - Phenomena (English)
	TodayIcon	Today Forecast - Phenomena Class See <a href="#">Phenomena List</a>
	TodayMaxTemperature	Today Forecast - Max Temperature (°C)
	TodayMinTemperature	Today Forecast - Min Temperature (°C)
	Humidity	Today Forecast – Humidity (%)
	HiHumidity	Today Forecast - Max Humidity (Only in Hajj season) (%)
	SkyStatus_Ar	Today Sky Status (Arabic) - (Only in Hajj season)
	SkyStatus_En	Today Sky Status (English) - (Only in Hajj season)
	TodayWinddirection_Ar	Today Wind direction (Arabic) - (Only in Hajj season)
	TodayWinddirection_En	Today Wind direction (English) - (Only in Hajj season)
	TodayWindspeed	Today Wind Speed - (Only in Hajj season) (km/h)

<b>Five Days Forecast</b>	FirstdayIcon	Five Days Forecast - First Day - Phenomena Class See <a href="#">Phenomena List</a>
	FirstdayMaxTemperature	Five Days Forecast - First Day - Max Temperature (°C)
	FirstdayMinTemperature	Five Days Forecast - First Day - Min Temperature (°C)
	FirstDate	Five Days Forecast - First Day - Date
	SeconddayIcon	Five Days Forecast - Second Day - Phenomena Class See <a href="#">Phenomena List</a>
	SeconddayMaxTemperature	Five Days Forecast - Second Day - Max Temperature (°C)
	SeconddayMinTemperature	Five Days Forecast - Second Day - Min Temperature (°C)
	SecondDate	Five Days Forecast - Second Day - Date
	ThirddayIcon	Five Days Forecast - Third Day - Phenomena Class See <a href="#">Phenomena List</a>
	ThirddayMaxTemperature	Five Days Forecast - Third Day - Max Temperature (°C)
	ThirddayMinTemperature	Five Days Forecast - Third Day - Min Temperature (°C)
	ThirdDate	Five Days Forecast - Third Day - Date
	FourthdayIcon	Five Days Forecast - Fourth Day - Phenomena Class See <a href="#">Phenomena List</a>
	FourthdayMaxTemperature	Five Days Forecast - Fourth Day - Max Temperature (°C)
	FourthdayMinTemperature	Five Days Forecast - Fourth Day - Min Temperature (°C)
	FourthDate	Five Days Forecast - Fourth Day - Date
	FifthdayIcon	Five Days Forecast - Fifth Day - Phenomena Class See <a href="#">Phenomena List</a>
	FifthdayMaxTemperature	Five Days Forecast - Fifth Day - Max Temperature (°C)
	FifthdayMinTemperature	Five Days Forecast - Fifth Day - Min Temperature (°C)
	FifthDate	Five Days Forecast - Fifth Day - Date

## Kingdom Weather Report Service:

Kingdom weather report is a daily report that describes the weather status in general for the whole kingdom for two days (Today & Tomorrow). This service will return a json object that contains the kingdom weather report in two languages.

<b>Service Name:</b>	GetKingdomWeatherDescription
<b>URL:</b>	<a href="http://www.pme.gov.sa:8989/api/Weather/GetKingdomWeatherDescription">http://www.pme.gov.sa:8989/api/Weather/GetKingdomWeatherDescription</a>
<b>Type:</b>	RESTful / json
<b>Method:</b>	GET
<b>URL Params:</b>	None
<b>Data Params:</b>	None

### Json object description:

Parameter Name	Description
descriptionAr	Today report text (Arabic)
descriptionEn	Today report text (English)
updateDate	Update date of today report
tomorrowDescriptionAr	Tomorrow report text (Arabic)
tomorrowDescriptionEn	Tomorrow report text (English)
tomorrowUpdateDate	Update date of Tomorrow report

## Alert Notification Service:

This service gives the ability to integrate with the National Center for Meteorology (NCM) alert data. By calling this service it will return a json output that represents the current valid alerts only

<b>Service Name:</b>	GetNotifications
<b>URL:</b>	<a href="http://www.pme.gov.sa:8989/api/Weather/GetNotifications">http://www.pme.gov.sa:8989/api/Weather/GetNotifications</a>
<b>Type:</b>	RESTful / json
<b>Method:</b>	GET
<b>URL Params:</b>	None
<b>Data Params:</b>	None

### Json object description:

Parameter Name	Description
Id	Alert identifier
Title	Alert code
alertType	Alert Type (Identifier) See <a href="#">Alert Type</a>
alertTypeAr	Alert Type (Arabic) See <a href="#">Alert Type</a>
alertTypeEn	Alert Type (English) See <a href="#">Alert Type</a>
fromDate	Alert Start Date
toDate	Alert End Date
alertStatusID	Alert Status (Identifier) See <a href="#">Alert Status</a>
alertStatusAr	Alert status (Arabic) See <a href="#">Alert Status</a>
alertStatusEn	Alert status (English) See <a href="#">Alert Status</a>
AlertStatusCategory	Alert Status Category See <a href="#">Alert Status</a>

AlertHazards	<p>A list of the alert hazards with the following details:</p> <table border="1"> <tr> <td>id</td> <td>Alert Hazard Identifier</td> </tr> <tr> <td>descriptionAr</td> <td>Alert Hazard Arabic description</td> </tr> <tr> <td>descriptionEn</td> <td>Alert Hazard English description</td> </tr> </table> <p>See <a href="#">Alert Hazards</a></p>	id	Alert Hazard Identifier	descriptionAr	Alert Hazard Arabic description	descriptionEn	Alert Hazard English description																
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descriptionAr	Alert Hazard Arabic description																						
descriptionEn	Alert Hazard English description																						
regionID	Alert Region (Identifier) See <a href="#">Regions</a>																						
regionAR	Alert Region (Arabic Name) See <a href="#">Regions</a>																						
regionEn	Alert Region (English Name) See <a href="#">Regions</a>																						
Governorates	<p>list of alert governorates with the following details:</p> <table border="1"> <tr> <td>id</td> <td>Governorate Identifier</td> </tr> <tr> <td>nameAr</td> <td>Governorate Arabic Name</td> </tr> <tr> <td>nameEn</td> <td>Governorate English Name</td> </tr> <tr> <td>Longitude</td> <td>Governorate Longitude</td> </tr> <tr> <td>Latitude</td> <td>Governorate Latitude</td> </tr> <tr> <td>municipalities</td> <td> <p>list of affected municipalities with the following details:</p> <table border="1"> <tr> <td>id</td> <td>Municipality Identifier</td> </tr> <tr> <td>nameAr</td> <td>Municipality Arabic Name</td> </tr> <tr> <td>nameEn</td> <td>Municipality English Name</td> </tr> <tr> <td>Longitude</td> <td>Municipality Longitude</td> </tr> <tr> <td>Latitude</td> <td>Municipality Latitude</td> </tr> </table> </td> </tr> </table> <p>See <a href="#">Governorates</a> See <a href="#">Municipalities</a></p>	id	Governorate Identifier	nameAr	Governorate Arabic Name	nameEn	Governorate English Name	Longitude	Governorate Longitude	Latitude	Governorate Latitude	municipalities	<p>list of affected municipalities with the following details:</p> <table border="1"> <tr> <td>id</td> <td>Municipality Identifier</td> </tr> <tr> <td>nameAr</td> <td>Municipality Arabic Name</td> </tr> <tr> <td>nameEn</td> <td>Municipality English Name</td> </tr> <tr> <td>Longitude</td> <td>Municipality Longitude</td> </tr> <tr> <td>Latitude</td> <td>Municipality Latitude</td> </tr> </table>	id	Municipality Identifier	nameAr	Municipality Arabic Name	nameEn	Municipality English Name	Longitude	Municipality Longitude	Latitude	Municipality Latitude
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nameAr	Municipality Arabic Name																						
nameEn	Municipality English Name																						
Longitude	Municipality Longitude																						
Latitude	Municipality Latitude																						
otherLocationsAR	Alert Other locations (Arabic) , and it can be null See <a href="#">Alert Other locations</a>																						
otherLocationsEn	Alert Other locations (English) , and it can be null See <a href="#">Alert Other locations</a>																						
TweetId	The twitter Id of Alert Tweet URL Template: (https://twitter.com/PmeMediacen/status/< TweetId >/)																						
AlertActions	<p>list of the alert actions with the following details:</p> <table border="1"> <tr> <td>id</td> <td>Alert Action Identifier</td> </tr> <tr> <td>descriptionAr</td> <td>Alert Action Arabic description</td> </tr> <tr> <td>descriptionEn</td> <td>Alert Action English description</td> </tr> </table> <p>See <a href="#">Alert Actions</a></p>	id	Alert Action Identifier	descriptionAr	Alert Action Arabic description	descriptionEn	Alert Action English description																
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descriptionAr	Alert Action Arabic description																						
descriptionEn	Alert Action English description																						
LastModified	Last modification date and time																						



Example:

The image shows a weather alert notification card with the following fields and labels:

- Alert Type:** تنبيه (Warning)
- Alert Actions (List):** إنذار جديد (New Alert) with a warning icon.
- Region:** منطقة الرياض (Riyadh Region)
- Governorate (List):** الخرج - الدرعية - الدوادمي - الزلفي - العاصمة الرياض (Al-Ula - Dammam - Al-Rass - Al-Riyadh - Riyadh Capital)
- Alert Status:** سحب رعدية ممطرة (Thunderstorm with rain)
- Alert Hazards (List):** التأثيرات المصاحبة : نشاط في الرياح السطحية - تدني في مدى الرؤية - سيول (Accompanying effects: surface wind activity - reduced visibility - flooding)
- From Date:** بداية الإنذار الساعة: 18:30 الأحد 2022-01-30 (Alert start time: 18:30 on Sunday, 2022-01-30)
- To Date:** نهاية الإنذار الساعة: 05:00 الاثنين 2022-01-31 (Alert end time: 05:00 on Monday, 2022-01-31)

Logo: المركز الوطني للأرصاد National Center for Meteorology

## System Lookups:

Alert Action:

Alert Type:

Alert Status:

Alert Hazard:

Region:

Governorate:

Municipality:

Alert Other location:

Phenomena List:

Weather Forecasting City:

**Note:** An Excel sheet with the above lookups will be provided when the APIs request form submitted and approved.

## Terms of use:

- Only authorized IPs can access the APIs
- Caching is strictly required to use the APIs