



المركز الوطني للأرصاد
National Center for Meteorology
المملكة العربية السعودية

NCM EWS (Early Warning System) API Documentation

Version 2.0

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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

Service Name:	GetWeatherInfo
URL:	https://api.ncm.gov.sa/api/weather/getweatherinfo
Type:	RESTful / json
Method:	GET
URL Params:	"ccode" (Optional) = filter on specific city by passing its code from "Weather Cities" Table
Data Params:	None

Json object description:

Category	Parameter Name	Description
City Information	ID	Identity
	CityCode	The WMO City code See Weather Forecasting Cities
	City	City Id
	City_Ar	City name (Arabic)
	City_En	City name (English)
Current Weather	CurrentDate	Current - Weather Last Update Date/Time - from the stations
	CurrentIcon	Current - Phenomena Class See Phenomena List
	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)
Today Forecast	TodayDate	Today Forecast - Date
	Weather_PhenomenonAr	Today Forecast - Phenomena (Arabic)
	Weather_PhenomenonEn	Today Forecast - Phenomena (English)
	TodayIcon	Today Forecast - Phenomena Class See Phenomena List
	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)

Five Days Forecast	FirstdayIcon	Five Days Forecast - First Day - Phenomena Class See Phenomena List
	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 Phenomena List
	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 Phenomena List
	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 Phenomena List
	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 Phenomena List
	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.

Service Name:	GetKingdomWeatherDescription
URL:	https://api.ncm.gov.sa/api/weather/GetKingdomWeatherDescription
Type:	RESTful / json
Method:	GET
URL Params:	None
Data Params:	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

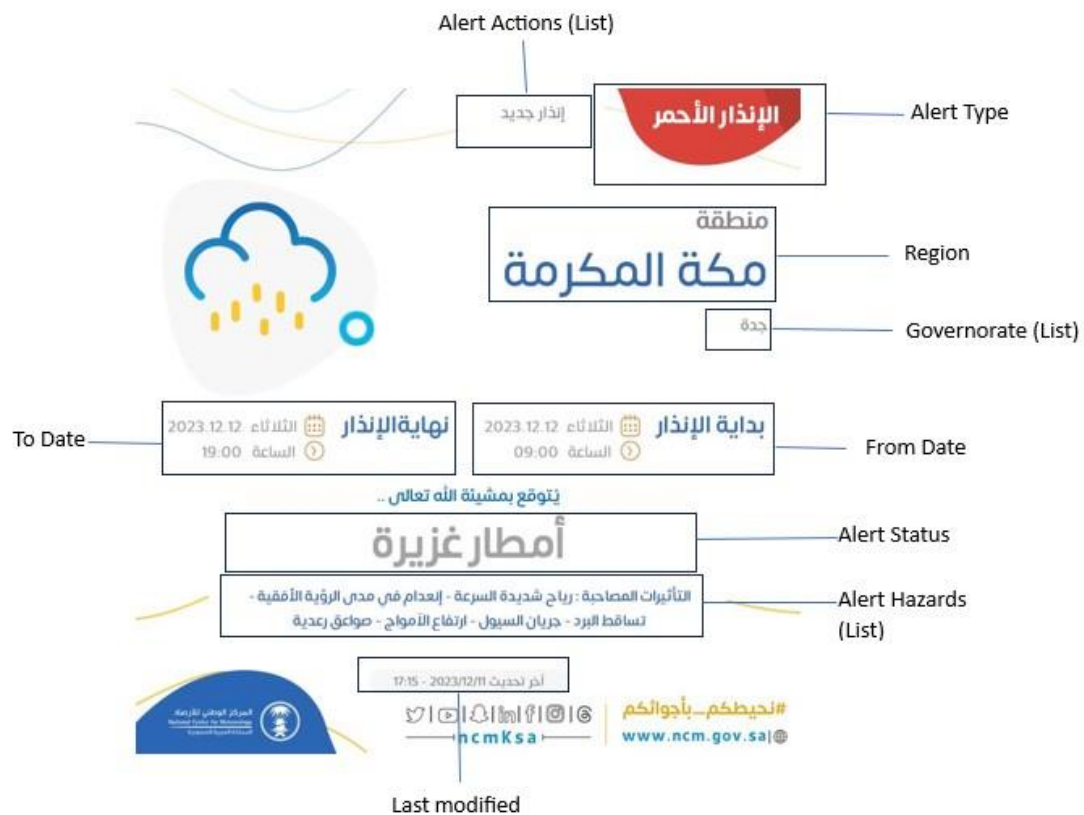
Service Name:	GetNotifications
URL:	https://api.ncm.gov.sa/api/weather/getnotifications
Type:	RESTful / json
Method:	GET
URL Params:	None
Data Params:	None

Json object description:

Parameter Name	Description
Id	Alert identifier
Title	Alert code
alertType	Alert Type (Identifier) See Alert Types
alertTypeAr	Alert Type (Arabic) See Alert Types
alertTypeEn	Alert Type (English) See Alert Types
fromDate	Alert Start Date
toDate	Alert End Date
alertStatusID	Alert Status (Identifier) See Alert Status
alertStatusAr	Alert status (Arabic) See Alert Status
alertStatusEn	Alert status (English) See Alert Status
AlertStatusCategory	Alert Status Category See Alert Status

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

Example:



System Lookups:

Alert Actions:

Alert Types:

Alert Status:

Alert Hazards:

Regions:

Governorates:

Municipalities:

Alert Other Locations:

Phenomena List:

Weather Forecasting City:

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