|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Weather Alerts Detail - v3.0**  Domain Portfolio: Alerts | Domain: Alerts | Usage Classification: Standard   |  |  |  | | --- | --- | --- | | **Geography:** US, Canada, Japan, Western Europe, Australia | **Attribution Required:** YES | **Attribution Requirements:** Clients must provide data source attribution on anywhere data is displayed. | | The attribution phrase must display: “Issued by <Office Name> - <Office Admin District Code>, <Office Country Code>, <Source>, <Disclaimer>”.   * Example: Issued by National Weather Service - Bismarck, US * Example: Issued by Central Institute for Meteorology and Geodynamics - Austria, EMETNET-Meteoalarm, Disclaimer: "Time delays between this website and <a href='http://meteoalarm.eu/'>Meteoalarm.eu</a> are possible. For the most up-to-date information about alert levels as published by the participating National Meteorological Services, please visit <a href='http://meteoalarm.eu/'>Meteoalarm</a>." | | | |

### **Overview**

The Weather Alert Details API provides the details for a single requested event for weather watches, warnings, statements and advisories issued by the NWS (National Weather Service), Environment Canada and MeteoAlarm. These weather alerts can provide crucial life-saving information. Weather alerts can be complicated and do not always follow consistent standards, format and rules. The Weather Company (TWC) strives to ensure that the information is consistent from all of the different sources but the content is subject to change whenever there is an update from the authoritative source.

The Weather Alert Details API returns additional details related to Severe Thunderstorms, Tornadoes, Earthquakes, Floods, etc . This API also returns non-weather alerts such as Child Abduction Emergency and Law Enforcement Warnings.

### **HTTP Headers and Data Lifetime - Caching and Expiration**

For details on appropriate header values as well as caching and expiration definitions, please see [**The Weather Company Data | API Common Usage Guide**](http://ibm.co/APICom)**.**

**Translated Fields:**

This TWC API handles the translation of phrases. However, when formatting a request URL a valid language must be passed along (see the language code table for the supported codes).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| * countryName | * disclaimer | * headlineText | * eventDescription | * officeAdminDistrict |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **NOTE:** In order to run this API, user must FIRST do the following:  **1)** Run [**Weather Company Data - Core - v3 - Alerts - Weather Alerts - Headlines**](https://docs.google.com/document/d/1fhvDbnpGmptPigFkw5NbUxKtuHreyC16TtZHfyGCsBk/edit?usp=sharing)  **2)** Obtain a ‘**detailKey’** from running the operation above  **3)** Use the obtained ‘**detailKey’** as the required parameter **‘alertId’** in running this API | | |

**URL Construction**

|  |  |  |
| --- | --- | --- |
| **Atomic API URL Examples:** | **Aggregate Product Name** | v3alertsDetail\* (See note at end of document) |
| **Request by Alert ID**: **Required Parameters:** alertId, format, language, apiKey  https://api.weather.com/v3/alerts/detail?**alertId**=<**alertId**>&format=json&language=en-US&apiKey=**yourApiKey** | | |
| https://api.weather.com/v3/alerts/detail?alertId=c092289d-1282-318a-b0c6-ab4c95ee3c57&format=json&language=en-US&apiKey=**yourApiKey** | | |

### **Weather Alert Narrative Text and Language Support**

Beyond the translated fields indicated above, language returned is not determined by TWC API but by the nation where alert is located. Language Codes supported for each country appear in the table below:

|  |  |  |
| --- | --- | --- |
| Country | Language | Language Code Parameter |
| United States | US English | en-US |
| United States | Mexico Spanish | es-MX |
| Canada | Canadian English, Canadian French | en-CA, fr-CA |
| Austria | Austrian German, UK English | de-AT, en-GB |
| Australia | Australian English, US English | en-AU, en-US |
| Belgium | Dutch, Belgium French | nl-BE ,fr-BE |
| Bosnia-Herzegovina | Bosnian, UK English | bs-BA, en-GB |
| Croatia | UK English, Croatian | en-GB, hr-HR |
| Cyprus | UK English | en-GB |
| Czech Republic | UK English, Czech | en-GB, ce-CZ |
| Denmark | UK English | en-GB |
| Estonia | UK English, Estonian | et-EE, en-GB |
| Finland | Finnish, Swedish, UK English | fi-FI, sv-FI, en-GB |
| France | France French, US English | fr-FR, en-US |
| Germany | Germany German | de-DE |
| Greece | UK English | en-GB |
| Hungary | UK English, Hungarian | en-GB hu-HU |
| Iceland | UK English | en-GB |
| Ireland | UK English | en-GB |
| Italy | Italian, UK English | it-IT, en-GB |
| Japan | Japanese | ja-JP |
| Latvia | UK English | en-GB |
| Lithuania | Lithuanian, UK English | lt-LT, en-GB |
| Luxembourg | France French, UK English | fr-FR, en-GB |
| Macedonia | Macedonian | mk-MK |
| Malta | UK English, Maltese | en-GB, ma-MT |
| Moldova | UK English, Romanian | en-GB, ro-RO |
| Montenegro | UK English, Slovenian | en-GB, sr-ME |
| Netherlands | Dutch, UK English | nl-NL, en-GB |
| Norway | Norwegian, UK English | nb-NO, en-GB |
| Poland | UK English, Polish | en-GB, pl-PL |
| Portugal | Portuguese | pt-PT |
| Romania | Romanian | ro-RO |
| Serbia | UK English, Serbian | en-GB, cp-RS |
| Slovakia | UK English, Slovak | en-GB, sk-SK |
| Slovenia | Slovenian, UK English | sl-SI, en-GN |
| Spain | Spain Spanish, UK English | es-ES, en-GB |
| Sweden | Swedish | sv-SE |
| Switzerland | UK English | en-GB |
| United Kingdom | UK English | en-GB |

### **Data Elements & Definitions**

Note: Field names are sorted alphabetically in the table below for presentation purposes. The table below does not represent the sort order of the API response.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field Name | Description | Type | Range | Sample | Nulls Allowed |
| "alertDetail.object" |  | object |  |  |  |
| adminDistrict | Admin district name | string |  | Montana | Y |
| adminDistrictCode | Admin district code | string |  | MT | Y |
| areaId | Location code for a location where the event occurs. | string |  | MTC035 | N |
| areaName | Mixed case location name | string |  | Glacier | N |
| areaTypeCode | This identifies type of location. | string | C = county  Z = zone  CLC=Canada Location | C | N |
| certainty | Certainty text | string | Observed – Determined to have occurred or to be ongoing  Likely - Likely (p > ~50%)  Possible - Possible but not likely (p <= ~50%)  Unlikely - Not expected to occur (p ~ 0)  Unknown - Certainty unknown | Observed | N |
| certaintyCode | Certainty code | integer | 1 - Observed  2 - Likely  3 - Possible  4 - Unlikely  5 - Unknown | 1 | N |
| countryCode | country code of the location | string |  | US | N |
| countryName | country name | string |  | UNITED STATES OF AMERICA | N |
| detailKey | detail record key | string |  | 77128ec9-cebe-46b2-8d72-d1f6860454e7 | N |
| detailKey | detail record key | string |  | 77128ec9-cebe-46b2-8d72-d1f6860454e7 | N |
| disclaimer | Disclaimer for data | string |  | null | Y |
| effectiveTimeLocal | The effective date and time of the information in the alert message. | string | valid date | 2017-10-07T12:30:00-05:00 | Y |
| effectiveTimeLocalTimeZone | Time Zone Abbreviation for effective time | string | valid timezone | EDT | Y |
| eventDescription | Event Description | string |  | Tornado Warning | N |
| eventTrackingNumber | Event Tracking Number | string | 4 digit number or a checksum | 160 | N |
| expireTimeLocal | The expire date and time of the information in the alert message. | string | valid date | 2017-10-07T19:30:00-05:00 | N |
| expireTimeLocalTimeZone | Time Zone Abbreviation | string | valid timezone | EDT | N |
| expireTimeUTC | Expire date and time in UTC | epoch | valid Epoch time | 1373914800 | N |
| headlineText | Headline text of an event for the location | string |  | Flood Warning until 12:30PM CDT SAT | N |
| identifier | This is the checksum value uniquely identifies a bulletin | string | checksum | a463d8adbd563a981673b1beab2b04994e80078a | N |
| issueTimeLocal | Alert issuance time | string | valid date | 2017-10-07T11:30:00-05:00 | N |
| issueTimeLocalTimeZone | Time zone Abbreviation | string | valid timezone | CDT | N |
| latitude | centroid latitude of a location where the event occurs. | decimal |  | 48.65 | Y |
| longitude | centroid longitude of a location where event occurs. | decimal |  | -113.13 | Y |
| messageType | The nature of the alert message | string | New - Initial information  Update - Updates existing message  Cancel - Cancels the earlier message | New | N |
| messageTypeCode | The nature of the alert message code | integer | 1 - New  2 - Update  3 - Cancel | 2 | N |
| officeAdminDistrict | Office Admin District | string |  | Montana | Y |
| officeAdminDistrictCode | Issuing Office State Code | string |  | MT | Y |
| officeCode | Issuing Office code | string |  | KTFX | N |
| officeCountryCode | Issuing Office Country Code | string |  | US | Y |
| officeName | Issuing Office Name | string |  | Great Falls | Y |
| onsetTimeLocal | The onset date and time of the information in the alert message. (Canada only) | string | valid date | 2017-10-07T17:30:00-05:00 | Y |
| onsetTimeLocalTimeZone | Time Zone Abbreviation for onset time | string | valid timezone | EDT | Y |
| phenomena | Phenomena code of an event | string |  | TO | N |
| processTimeUTC | Alert process time in SUN | integer | valid unix time UTC | 1475863030000 | N |
| productIdentifier | Product Line Identifier | string | Refer Inbound PIL/Event Tab | TOR | N |
| severity | Severity of the subject event of the alert message | string | Extreme - Extraordinary threat to life or property  Severe - Significant threat to life or property  Moderate - Possible threat to life or property  Minor – Minimal to no known threat to life or property  Unknown - Severity unknown | Severe | N |
| severityCode | Severity code of the subject event of the alert message | integer | 1 - Extreme  2 - Severe  3 - Moderate  4 - Minor  5 - Unknown | 1 | N |
| significance | Equated to Type - such as a Watch, Warning or Advisory | string |  | W | N |
| source | Originating source of alert | string |  | NWS | N |
| synopsis | Brief summary | string |  | \*text too large to display here | Y |
| urgency | Urgency text | string | Immediate - Responsive action SHOULD be taken immediately  Expected - Responsive action SHOULD be taken soon (within next hour)  Future - Responsive action SHOULD be taken in the near future  Past - Responsive action is no longer required  Unknown - Urgency not known | Expected | N |
| urgencyCode | Urgency code | integer | 1 - Immediate  2 - Expected  3 - Future  4 - Past  5 - Unknown | 2 | N |
| "categories.object" |  | object |  |  |  |
| category | The category description of the subject event of the alert message | string | Geo - Geophysical (inc. landslide)  Met - Meteorological (inc. flood)  Safety - General emergency and public safety  Security - Law enforcement, military, homeland and local/private security  Rescue - Rescue and recovery  Fire - Fire suppression and rescue  Health - Medical and public health  Env - Pollution and other environmental  Transport - Public and private transportation  Infra - Utility, telecommunication, other non-transport infrastructure  CBRNE – Chemical, Biological, Radiological, Nuclear or High-Yield Explosive threat or attack  Other - Other events | Met | N |
| categoryCode | The code denoting the category of the subject event of the alert message | integer | 1 - Geo  2 - Met  3 - Safety  4 - Security  5 - Rescue  6 - Fire  7 - Health  8 - Env  9 - Transport  10 - Infra  11 - CBRNE  12 - Other | 2 | N |
| "responseTypes.object" |  | object |  |  |  |
| responseType | Description of action recommended for the target audience | string | Shelter – Take shelter in place or per instruction  Evacuate – Relocate as instructed in the instruction  Prepare – Make preparations per the instruction  Execute – Execute a pre-planned activity identified in instruction  Avoid – Avoid the subject event as per the instruction  Monitor – Attend to information sources as described in instruction  Assess – Evaluate the information in this message. (This value SHOULD NOT be used in public warning applications.)  AllClear – The subject event no longer poses a threat or concern and any follow on action is described in <instruction>  None – No action recommended | Evacuate | N |
| responseTypeCode | The code denoting the type of action recommended for the target audience | integer | 1 - Shelter  2 - Evacuate  3 - Prepare  4 - Execute  5 - Avoid  6 - Monitor  7 - Assess  8 - AllClear  9 - None | 2 | N |
| "flood.object" |  | object |  |  |  |
| floodCrestTimeLocal | Flood Crest date time | string | valid date | 2017-10-07T21:30:00-05:00 | Y |
| floodCrestTimeLocalTimeZone | Flood crest date time zone abbeviation | string | valid timezone | EDT | Y |
| floodEndTimeLocal | Flood End date time | string | valid date | 2017-10-07T23:30:00-05:00 | Y |
| floodEndTimeLocalTimeZone | Flood end date time zone abbeviation | string | valid timezone | EDT | Y |
| floodImmediateCause | Flood Immediate Cause description | string | Excessive Rainfall  Snowmelt  Rain and Snowmelt  Dam or Levee Failure  Ice Jam  Glacier-Dammed Lake Outburst  Rain and/or Snowmelt and/or Ice Jam  Upstream Flooding plus Storm Surge  Upstream Flooding plus Tidal Effects  Elevated Upstream Flow plus Tidal Effects  Wind and/or Tidal Effects  Upstream Dam or Reservoir Release  Other Multiple Causes  Other Effects  Unknown | Excessive Rainfall | Y |
| floodImmediateCauseCode | Flood Immediate Cause code | string | ER Excessive Rainfall  SM Snowmelt  RS Rain and Snowmelt  DM Dam or Levee Failure  IJ Ice Jam  GO Glacier-Dammed Lake Outburst  IC Rain and/or Snowmelt and/or Ice Jam  FS Upstream Flooding plus Storm Surge  FT Upstream Flooding plus Tidal Effects  ET Elevated Upstream Flow plus Tidal Effects  WT Wind and/or Tidal Effects  DR Upstream Dam or Reservoir Release  MC Other Multiple Causes  OT Other Effects  UU Unknown | NO | Y |
| floodLocationId | Flood Location Identifier code | string | Any Valid NWS flood location identifier | SMBM8 | Y |
| floodLocationName | Flood Location Identifier Name | string | Any valid NWS flood location identifier | Saint Mary River at International boundary | Y |
| floodRecordStatus | Flood Record Status description | string | A record flood is not expected  Near record or record flood expected  Flood without a period of record to compare  For areal flood warnings, areal flash flood products, and flood advisories (point and areal) | Near record or record flood expected | Y |
| floodRecordStatusCode | Flood Record Status code | string | NO A record flood is not expected  NR Near record or record flood expected  UU Flood without a period of record to compare  OO For areal flood warnings, areal flash flood products, and flood advisories (point and areal) | NR | Y |
| floodSeverity | Flood Severity Description | string | None  N/A  Minor  Moderate  Major  Unknown | 1 | Y |
| floodSeverityCode | Flood Severity Code | string | N None  0 N/A  1 Minor  2 Moderate  3 Major  U Unknown | 0 | Y |
| floodStartTimeLocal | Flood Start date Time | string | valid date | 2017-10-07T20:30:00-05:00 | Y |
| floodStartTimeLocalTimeZone | Flood start date time zone abbreviation | string | valid timezone | EDT | Y |
| "texts.object" |  | object |  |  |  |
| description |  | string |  | \* text too large to display here | Y |
| instruction |  | string |  | \* text too large to display here | Y |
| languageCode | language for texts | string | See documents for supported languages | en-US | Y |
| overview |  | string |  | \* text too large to display here | Y |
| "polygon.object" |  | object |  |  |  |
| lat | latitude | decimal |  | 48.65 | Y |
| lon | longitude | decimal |  | -113.13 | Y |

### **JSON Sample**

|  |
| --- |
| {  "alertDetail": {  "detailKey": "c092289d-1282-318a-b0c6-ab4c95ee3c57",  "messageTypeCode": 2,  "messageType": "Update",  "productIdentifier": "FLS",  "phenomena": "FL",  "significance": "W",  "eventTrackingNumber": "0033",  "officeCode": "KCRP",  "officeName": "Corpus Christi",  "officeAdminDistrict": "Texas",  "officeAdminDistrictCode": "TX",  "officeCountryCode": "US",  "eventDescription": "River Flood Warning",  "severityCode": 3,  "severity": "Moderate",  "categories": [  {  "category": "Met",  "categoryCode": 2  }  ],  "responseTypes": [  {  "responseType": "Avoid",  "responseTypeCode": 5  }  ],  "urgency": "Unknown",  "urgencyCode": 5,  "certainty": "Unknown",  "certaintyCode": 5,  "effectiveTimeLocal": null,  "effectiveTimeLocalTimeZone": null,  "expireTimeLocal": "2016-12-12T08:00:00-06:00",  "expireTimeLocalTimeZone": "CST",  "expireTimeUTC": 1481551200,  "onsetTimeLocal": null,  "onsetTimeLocalTimeZone": null,  "flood": {  "floodLocationId": "DUPT2",  "floodLocationName": "Guadalupe River near Bloomington",  "floodSeverityCode": "2",  "floodSeverity": "Moderate",  "floodImmediateCauseCode": "ER",  "floodImmediateCause": "Excessive Rainfall",  "floodRecordStatusCode": "NO",  "floodRecordStatus": "A record flood is not expected",  "floodStartTimeLocal": "2016-12-06T11:36:00-06:00",  "floodStartTimeLocalTimeZone": "CST",  "floodCrestTimeLocal": "2016-12-09T00:45:00-06:00",  "floodCrestTimeLocalTimeZone": "CST",  "floodEndTimeLocal": "2016-12-11T16:00:00-06:00",  "floodEndTimeLocalTimeZone": "CST"  },  "areaTypeCode": "C",  "latitude": 28.8,  "longitude": -96.97,  "areaId": "TXC469",  "areaName": "Victoria County",  "adminDistrictCode": "TX",  "adminDistrict": "Texas",  "countryCode": "US",  "countryName": "UNITED STATES OF AMERICA",  "headlineText": "River Flood Warning until 8AM CST MON",  "source": "National Weather Service",  "disclaimer": null,  "issueTimeLocal": "2016-12-09T08:21:00-06:00",  "issueTimeLocalTimeZone": "CST",  "identifier": "949798b53e012bd0ace79a438d27a690",  "processTimeUTC": 1481293269,  "texts": [  {  "languageCode": "en-US",  "description": "...Flood Warning extended until Monday morning...The Flood Warning\ncontinues for the Guadalupe River Near Bloomington.\n\* until Monday morning...or until the warning is cancelled.\n\* At 8:00 AM Friday the stage was 25.2 feet.\n\* Moderate flooding is occurring and Moderate flooding is forecast.\n\* Flood stage is 20.0 feet.\n\* Forecast: The river has crested overnight and will continue to fall\nand is expected to go below flood stage by Sunday afternoon.\n\* At 26.0 feet Irrigation and oil well pumps, tank batteries, and\nequipment in the lower flood plain below Victoria flood. Livestock\nare cut off, may have to be fed by boat, and could drown. Homes\ndownstream above Highway 35 on the left bank are cut off.\n\n&&\n\nBelow are the latest river stages and stage forecasts:\n\nFLD LATEST FORECAST 6 AM LST\nLOCATION STG STG DAY TIME Sat Sun Mon Tue Wed\n\nGuadalupe River\nBloomington 20 25.2 Fri 08 AM 23.8 21.1 18.7 17.8 17.6\n\n&&\n\n\n",  "instruction": null,  "overview": "...The Flood Warning continues for the following river in Texas...\n\nGuadalupe River Near Bloomington affecting Calhoun...Refugio and\nVictoria Counties\n\n.Recent rainfall upstream and over the area will keep the aforementioned\nriver above flood stage for the next few days.\n\nPRECAUTIONARY/PREPAREDNESS ACTIONS...\n\nStay tuned to NOAA Weather Radio, local TV and radio\nstations, or cable TV outlets, for the latest weather\ninformation, as additional rainfall could affect crest\nforecasts.\n\nFor the latest river stages and forecasts visit our AHPS page at:\nhttp://water.weather.gov/ahps2/index.php?wfo=crp\n\n&&\n\n"  }  ],  "polygon": [  {  "lat": 28.69,  "lon": -97.04  },  {  "lat": 28.69,  "lon": -96.98  },  {  "lat": 28.67,  "lon": -96.95  },  {  "lat": 28.57,  "lon": -96.88  },  {  "lat": 28.45,  "lon": -96.8  },  {  "lat": 28.43,  "lon": -96.85  },  {  "lat": 28.69,  "lon": -97.04  }  ],  "synopsis": null  }  } |

### **Significance Codes**

|  |  |
| --- | --- |
| Code | Description |
| A | Watch |
| B | Bulletin |
| L | Local Alerts |
| M | Message |
| O | Outlook |
| R | Report |
| S | Statement |
| W | Warning |
| Y | Advisory |

### **JMA Significance Codes**

|  |  |
| --- | --- |
| Code | Description |
| Y | Advisory |
| W | Warning |
| E | Extreme |

### **Alerts Event, Phenomena, Significance, & Threat Levels -** See Weather Alerts - Headlines- v3: [**https://ibm.co/v3WAHa**](https://ibm.co/v3WAHa)

\*Note: Aggregate Product Name only works for this API if used in conjuction with an API that makes active use of TWC Location Services

**Tsunami Zones Exceptions:**

Tsunami warnings are issued by **Joint Australian Tsunami Warning Centre (JATWC)** for Australian coastal locations and offshore territories. It also issues warnings for Antarctica. Below are some of the locations for which country code is not Australia for which JATWC issues tsunami warnings.

**Islands in Australia:**

These have a different ISO code than mainland Australia. It should be noted that when using “Alerts By Country” API and using code as “AU” will not return alerts for these islands.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Zone ID** | **Zone Name** | **Zone Type** | **ISO Country Code** | **Geocode** |
| CC\_TW001 | Cocos Island | Tsunami | CC | -12.1131, 96.8830 |
| CX\_TW001 | Christmas Island | Tsunami | CX | -10.4132, 105.6670 |
| NF\_TW001 | Norfolk Island | Tsunami | NF | -29.0624, 167.9330 |
| NSW\_PT245 | Norfolk Island | PointPlaces | NF | -29.0389, 167.9408 |

**Antarctica:**

For these locations, Location Master will not resolve the geocode to any location. There are no mappings defined for these geocodes and therefore “Alerts By Geocode” will not return any data for these locations. Alerts will return data for these locations when using “Alerts By Country” and “Alerts By Area”.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Zone ID** | **Zone Name** | **Zone Type** | **ISO Country Code** | **Geocode** |
| AQ\_TW001 | Antarctica | Tsunami | AQ | -67.6012, 62.8752 |
| AQ\_TW002 | Antarctica | Tsunami | AQ | -66.2820, 110.5230 |
| AQ\_TW003 | Antarctica | Tsunami | AQ | -68.5769, 77.9671 |