

Met Éireann Warning RSS/CAP/JSON Description

25 June 2018 – Revised 11th June 2020



Note: Even though Gale and Small Craft warnings are included in this document, they are not available in the RSS/CAP/JSON feeds at present.

RSS/CAP feed

The warning RSS feed provides access to all current warnings in CAP (Common Alerting Protocol) format. They can be accessed here

<https://www.met.ie/warningsxml/rss.xml>.

The RSS feed is in Atom/2005 format. A typical rss.xml looks like:

```
<rss version="2.0" xmlns:atom="http://www.w3.org/2005/Atom">
  <channel>
    <title>Met Éireann Warnings</title>
    <link>https://www.met.ie/warnings</link>
    <description>Warnings issued by Met Éireann. This RSS feed displays valid warnings for land areas
only. Sea area warnings will be added at a later date. Clicking the links, loads the CAP (Common Alerting
Protocol) XML file.
Note: Moderate means 'Status Yellow', Severe means 'Status Orange' and extreme means 'Status
Red'</description>
    <copyright>Public Domain</copyright>
    <item>
      <title>Yellow Wind Warning</title>
      <link>https://cap.met.ie//2.49.0.1.372.0.200102162524.459721.xml</link>
      <description>Southwest winds veering westerly will continue to reach mean speeds of 50 to 65 km/h
with gusts of 90 to 110 km/h, especially in coastal areas and on exposed hills and
mountains..</description>
      <author>forecasts@met.ie (Met Éireann)</author>
      <category>Weather</category>
      <guid>https://cap.met.ie//2.49.0.1.372.0.200102162524.459721.xml</guid>
      <pubDate>Thu, 02 Jan 2020 16:00:00 GMT</pubDate>
```

```
</item>
<atom:link href="https://www.met.ie/warningsxml/rss.xml" rel="self" type="application/rss+xml" />
</channel>
```

The <link> element links to a CAP-XML file which contains details of the warning. This example is for a Small Craft Warning. This RSS/Atom feed always contains a list of valid warnings. If an unexpired warning exists but is not in the feed, it is deemed to be cancelled.

Description

This is an example of the Small craft warning referred to in the RSS/Atom feed. This has a XSLT template applied. Right-click to reveal the XML code.

Small-Craft Warning

Identifier:	2.49.0.1.372.0.200102162524.459721
Sender:	forecasts@met.ie
Sent:	2020-01-02T16:25:24+00:00
Status:	Actual
Message Type:	Alert
Scope:	Public
Language:	en-GB
Category:	Met
Event:	Yellow Wind Warning
Response Type:	None
Urgency:	Expected
Severity:	Moderate
Certainty:	Likely
Onset:	2020-01-02T16:25:24+00:00
Expires:	2020-01-03T16:25:24+00:00

Sender Name: Met Eireann

Headline: Yellow Wind Warning

Description: . Southwest winds veering westerly will continue to reach mean speeds of 50 to 65 km/h with gusts of 90 to 110 km/h, especially in coastal areas and on exposed hills

Web: <https://www.met.ie/warnings>

Contact: forecasts@met.ie

Parameter:

Value Name:	awareness_level
Value:	2; yellow; Moderate

Parameter:

Value Name:	awareness_type
Value:	1; Wind

Area:

Description:	Ireland
Geocode:	FIPS EI01
Geocode:	FIPS EI07
Geocode:	FIPS EI12
Geocode:	FIPS EI13
Geocode:	FIPS EI15
Geocode:	FIPS EI18
Geocode:	FIPS EI19
Geocode:	FIPS EI21
Geocode:	FIPS EI23

Geocode:	FIPS EI29
Geocode:	FIPS EI30
Geocode:	FIPS EI31
Geocode:	FIPS EI03
Geocode:	FIPS EI04
Geocode:	FIPS EI11
Geocode:	FIPS EI16
Geocode:	FIPS EI26
Geocode:	FIPS EI27
Geocode:	FIPS EI10
Geocode:	FIPS EI14
Geocode:	FIPS EI20
Geocode:	FIPS EI24
Geocode:	FIPS EI25
Geocode:	FIPS EI02
Geocode:	FIPS EI06
Geocode:	FIPS EI22

Example of a High temperature warning.

High-Temperature warning for Ireland

Identifier: 2.49.0.1.372.0.180625051401.009113
Sender: forecasts@met.ie
Sent: **2018-06-25T05:14:01+00:00**
Status: Actual
Message Type: Alert

Scope:	Public
Language:	en-GB
Category:	Met
Event:	Moderate High-Temperature warning
Response	None
Urgency:	Expected
Severity:	Moderate
Certainty:	Likely
Onset:	2018-06-25T05:00:01+00:00
Expires:	2018-06-29T20:00:01+00:00
Sender Name:	Met Eireann
Headline:	High-Temperature warning for Ireland
Description:	Temperatures will hit 27 degrees Celsius in places today and are expected to exceed it on subsequent days, this week.
Web:	https://www.met.ie/warnings
Contact:	forecasts@met.ie
Parameter:	
	Value Name: awareness_level
	Value: 2; yellow; Moderate
Parameter:	
	Value Name: awareness_type
	Value: 5; high-temperature
Area:	
	Description: Ireland
	Geocode: FIPS EI01
	Geocode: FIPS EI07
	Geocode: FIPS EI12
	Geocode: FIPS EI13
	Geocode: FIPS EI15

Geocode: FIPS EI18
Geocode: FIPS EI19
Geocode: FIPS EI21
Geocode: FIPS EI23
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Geocode: FIPS EI31
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Geocode: FIPS EI02
Geocode: FIPS EI06
Geocode: FIPS EI22
Geocode: FIPS

If there is more than one warning, there will be separate CAP-XML files for each warning. These will be listed in the RSS/Atom feed.

CAP detailed specification

XML element	Details	Comments
Identifier:	Unique internal ID	
Sender:	forecasts@met.ie	
Sent:	Time of issue	
Status:	Actual	
Message Type:	Alert/Update/Cancel	
References:	For Update/Cancel – ref to previous CAP message.	
Scope:	Public/Restricted	
Language:	en-GB	
Category:	Met	
Event:	[Moderate/Extreme/Severe] [Thunder/Wind/Snow-ice/Rainfall/Low Temperature/High Temperature/Fog/Rainfall/Gale/Small-Craft] Warning	Gale and Small craft are Wind warnings for Sea Area.
Response Type:	Monitor [Shelter Evacuate Prepare Avoid AllClear None]	
Urgency:	Future [Past, Immediate, Expected]	
Severity:	Minor/Moderate/Severe/Extreme	
Certainty:	Likely [Possible/Observed/Unlikely]	
Onset:	Expected date and time of onset in UTC format	
Expires:	Expected date and time of expiry in UTC format	
Sender Name:	Met Eireann	
Headline:	Headline warning message	Must not be edited
Description:	Detailed text of warning	Must not be edited
Web:	https://www.met.ie/warnings	
Contact:	forecasts@met.ie	
Parameter:		
	Value Name:	awareness_level
	Value:	1; green; Minor. 2; yellow; Moderate 3; orange; Severe 4; red; Extreme
Parameter:		

	<p>Value Name:</p> <p>Value:</p>	<p>awareness_type</p> <p>1; Wind 2; snow-ice 3; Thunderstorm 4; Fog 5; high-temperature 6; low-temperature 7; coastalevent 8; forest-fire 9; avalanches 10; Rain 12; flooding 13; rain-flood 22; Advisory</p> <p>Note: 7,8,9,12,13 not used by Met Eireann</p>																																																																																		
<p>Area:</p>	<p>List if affected regions in FIPS codes. http://www.statoids.com/uie.html</p> <table border="1"> <thead> <tr> <th>Region Name</th> <th>FIPS Code</th> </tr> </thead> <tbody> <tr><td>Carlow</td><td>EI01</td></tr> <tr><td>Cavan</td><td>EI02</td></tr> <tr><td>Clare</td><td>EI03</td></tr> <tr><td>Cork</td><td>EI04</td></tr> <tr><td>Donegal</td><td>EI06</td></tr> <tr><td>Dublin</td><td>EI07</td></tr> <tr><td>Galway</td><td>EI10</td></tr> <tr><td>Kerry</td><td>EI11</td></tr> <tr><td>Kildare</td><td>EI12</td></tr> <tr><td>Kilkenny</td><td>EI13</td></tr> <tr><td>Leitrim</td><td>EI14</td></tr> <tr><td>Laois</td><td>EI15</td></tr> <tr><td>Limerick</td><td>EI16</td></tr> <tr><td>Longford</td><td>EI18</td></tr> <tr><td>Louth</td><td>EI19</td></tr> <tr><td>Mayo</td><td>EI20</td></tr> <tr><td>Meath</td><td>EI21</td></tr> <tr><td>Monaghan</td><td>EI22</td></tr> <tr><td>Offaly</td><td>EI23</td></tr> <tr><td>Roscommon</td><td>EI24</td></tr> </tbody> </table>	Region Name	FIPS Code	Carlow	EI01	Cavan	EI02	Clare	EI03	Cork	EI04	Donegal	EI06	Dublin	EI07	Galway	EI10	Kerry	EI11	Kildare	EI12	Kilkenny	EI13	Leitrim	EI14	Laois	EI15	Limerick	EI16	Longford	EI18	Louth	EI19	Mayo	EI20	Meath	EI21	Monaghan	EI22	Offaly	EI23	Roscommon	EI24	<p>Codes for the Sea Areas</p> <table border="1"> <thead> <tr> <th>Region Name</th> <th>EMMA_ID</th> </tr> </thead> <tbody> <tr><td>Malin-Fair</td><td>EI805</td></tr> <tr><td>Fair-Belfast</td><td>EI806</td></tr> <tr><td>Belfast-Strang</td><td>EI807</td></tr> <tr><td>Strang-Carl</td><td>EI808</td></tr> <tr><td>Carling-Howth</td><td>EI809</td></tr> <tr><td>Howth-Wicklow</td><td>EI810</td></tr> <tr><td>Wicklow-Carns</td><td>EI811</td></tr> <tr><td>Carns-Hook</td><td>EI812</td></tr> <tr><td>Hook-Dungarvan</td><td>EI813</td></tr> <tr><td>Dungarvan-Roches</td><td>EI814</td></tr> <tr><td>Roches-Mizen</td><td>EI815</td></tr> <tr><td>Mizen-Valentia</td><td>EI816</td></tr> <tr><td>Valentia-Loop</td><td>EI817</td></tr> <tr><td>Loop-Slyne</td><td>EI818</td></tr> <tr><td>Slyne-Erris</td><td>EI819</td></tr> <tr><td>Erris-Rossan</td><td>EI820</td></tr> <tr><td>Rossan-BloodyF</td><td>EI821</td></tr> <tr><td>BloodF-Malin</td><td>EI822</td></tr> <tr><td>IrishSea-IOM-N</td><td>EI825</td></tr> </tbody> </table>	Region Name	EMMA_ID	Malin-Fair	EI805	Fair-Belfast	EI806	Belfast-Strang	EI807	Strang-Carl	EI808	Carling-Howth	EI809	Howth-Wicklow	EI810	Wicklow-Carns	EI811	Carns-Hook	EI812	Hook-Dungarvan	EI813	Dungarvan-Roches	EI814	Roches-Mizen	EI815	Mizen-Valentia	EI816	Valentia-Loop	EI817	Loop-Slyne	EI818	Slyne-Erris	EI819	Erris-Rossan	EI820	Rossan-BloodyF	EI821	BloodF-Malin	EI822	IrishSea-IOM-N	EI825
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Sligo	EI25	IrishSea-South	EI823
Tipperary	EI26	IrishSea-IOM-S	EI824
Waterford	EI27		
Westmeath	EI29		
Wexford	EI30		
Wicklow	EI31		

JSON FILES

Met Eireann Warnings are also available in JSON at https://www.met.ie/Open_Data/json/

They are updated every 60 seconds when any updates are applied or expired warnings removed.

There are two types of JSON file:

- **warning_IRELAND.json** (contains all valid warnings) [https://www.met.ie/Open_Data/json/warning_IRELAND.json]
- **warning_FIPS.json** where FIPS=FIPS code for a county = EI16 for Limerick warnings_EI16.json. [https://www.met.ie/Open_Data/json/warning_EI16.json]

Structure:

The JSON data consists of an array of warnings.

No warnings present:

```
[ ]
```

Example of a rainfall warning:

```
[{
  "id": 1,
  "capId": "2.49.0.1.372.0.200610184826.N_Norm001_Weather",
  "type": "Rain",
  "severity": "Moderate",
  "certainty": "Likely",
  "level": "yellow",
  "issued": "2020-06-10T19:48:26+01:00",
  "updated": "2020-06-10T19:48:26+01:00",
  "onset": "2020-06-10T22:00:00+01:00",
```

```

"expiry": "2020-06-11T14:00:00+01:00",
"headline": "Rain warning for Ireland",
"description": "Heavy showers will affect all areas overnight and tomorrow. Expect local flooding",
"regions":
["EI30", "EI21", "EI31", "EI23", "EI19", "EI18", "EI01", "EI15", "EI29", "EI13", "EI12", "EI07", "EI02", "EI22", "EI06",
"EI26", "EI27", "EI16", "EI03", "EI04", "EI11", "EI25", "EI24", "EI14", "EI20", "EI10"],
"status": "Warning"
}]

```

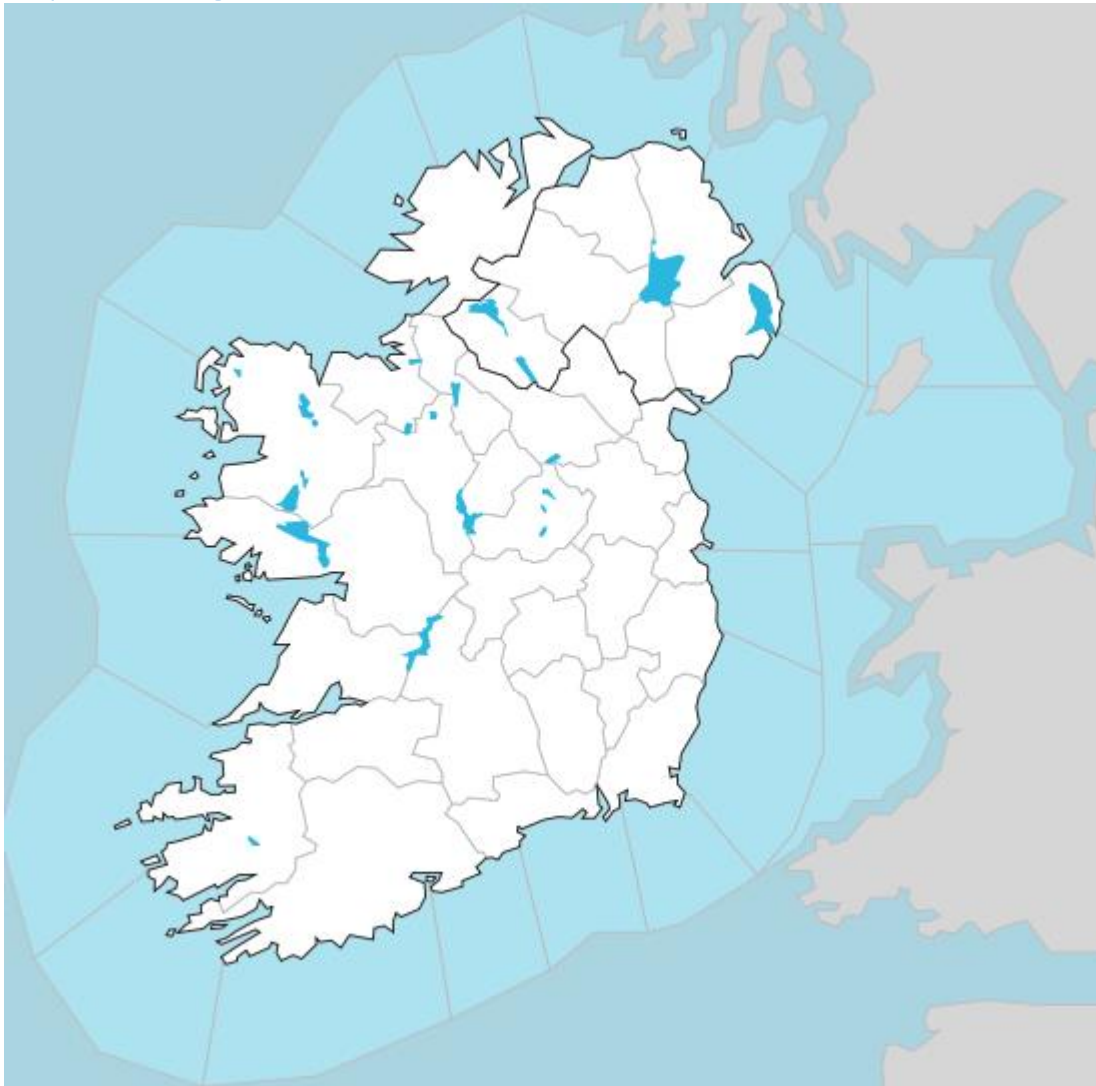
Structure of JSON

Element	Description	Values
id	ID number	
capId	Unique ID – same as for the CAP version	
Type	Rain, Wind, snow-ice, low-temperature, high-temperature, fog, Thunderstorm, Advisory	
Severity	Moderate/Severe/extreme	
Certainty	Likely	
Level	Yellow/Orange/Red	
Issued	Actual time of issue	
Updated	Time of update	
Onset	Time warning become valid	
Expiry	Time warning expires	
Headline	Short description of the warning; Format: TYPE Warning for Area	Type includes Type and Small Craft, Gale or Storm
Description	Details of the warning	
Regions	Array of FIPS or EMMA_ID codes	
Status	Warning/Advisory	

Conditions:

Met Éireann warnings are classified as Open data subject to Creative Commons 4.0. The headline and description must not be altered.

Map of Warning Areas



Map showing the Counties and the Sea Areas

Sea Areas start with EI805 at Malin Head and run clockwise.

EI823 to EI825 are the areas of the Irish Sea.