# Pulse PRO

# **API Technical Documentation**











## **Pulse PRO API – Technical Documentation**

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## Introduction

This document is provided to Earth Networks / WeatherBug partners to help them understand the various options of content distribution and display using the Pulse API.

## WeatherBug Icons

When providing WeatherBug Icons for depicting sky cover for current conditions the response shall check the local sunrise/sunset time in order to determine whether to return a day or night conditions icon value.

## **Bad or Missing Data Values**

If a live observation is not available for a specific station, the Pulse API returns a "Null" value. It is possible that certain parameters will be returned if they are flagged via the EN QC processes. If a value is flagged then the corresponding QC Flags will also be present in the response.

## **REST API**

The WeatherBug Web API gives Partners the flexibility to display Earth Networks / WeatherBug data in their desired configuration.

A request is made through a URL to the specified Earth Networks / WeatherBug server which returns either a JSON or XML document via HTTP. The data will vary according to the parameters passed, such as ZIP code.

The various JSON / XML documents returned include common attributes that are used throughout the various requests found in this document.

There are a number of possible data request types that can be made. Below is a full list with detailed explanations of the requested, required and optional parameters, as well as the format of the JSON or XML that is returned.





## **OAuth Security**

### Description:

OAuth is the security used for all Pulse API Packages. It is necessary to create and use the Access Token in every Pulse API request that is made. This Access Token must be hydrated or renewed every 24 hours or it will expire and the developer will not be able to obtain data via the API requests that are made.

#### Call Format:

https://thepulseapi.earthnetworks.com/oauth20/token?grant\_type=client\_credentials&client\_id=<Consumer Key>& client\_secret =<Secret Key>

#### Example:

https://thepulseapi.earthnetworks.com/oauth20/token?grant\_type=client\_credentials&client\_id=KZ7mAlv49AbdoecEoMO1Dy23gf0rrDHp&client\_secret=cFy71jSwicuZgfQp

### Input Parameters:

- Consumer Key (Client ID) required
- Secret Key (Client Secret) required

### Output:

• A JSON object containing Access Token.

```
{"OAuth20":{"access_token":{"token":"A2R18c0AAIa2U5mRnj8XRPDdvOtS","refre
sh_token":"A2R18c0AAIa2U5mRnj8XRPDdvOtS","token_type":"bearer","expires_i
n":86399}}}
```

## **Search Weather Station**

#### Description:

The stations call provides access to the station list and allows for the entry of optional parameters to make a bounding box to get a list of stations within that area. If no latitude longitude is given then all stations are returned.

#### Parameters:

Access Token: must use the current access token on this request Latitude: The integer latitude in decimal degrees (defaults to null) Longitude: The integer longitude in decimal degrees (defaults to null)

Location (optional): Either an EarthNetworks city Id or a latitude longitude in the form lat,lon.





Parameters:

Access Token: must use the current access token on this request

#### Example 1:

A valid request and response with lat lon and default radius (15 miles)

#### Request:

https://thepulseapi.earthnetworks.com/getStationList/data/locations/v3/stationlist?latitude=39.1833&longitude=-77.2667&verbose=true&access token>

## Response:

```
"id": "f80c02a3-f71f-4654-8025-b65ce0393f77",
  "code": 200,
  "errorMessage": null,
  "result": {
    "Stations": [
      {
        "StationId": "CLRCH",
        "ProviderId": 3,
        "ProviderName": "Earth Networks Inc",
        "StationName": "Clarksburg Area HS",
        "Latitude": 39.2263888888889,
        "Longitude": -77.2636111111111,
        "ElevationAboveSeaLevel": null,
        "DisplayFlag": null
      },
        "StationId": "PPIVA",
        "ProviderId": 3,
        "ProviderName": "Earth Networks Inc",
        "StationName": "Prototype Productions Inc PPI",
        "Latitude": 39.0208333333333,
        "Longitude": -77.456666666667,
        "ElevationAboveSeaLevel": null,
        "DisplayFlag": null
      },
        "StationId": "STRLI",
        "ProviderId": 3,
        "ProviderName": "Earth Networks Inc",
        "StationName": "NOVA Loudoun Campus",
        "Latitude": 39.0208333333333,
        "Longitude": -77.383888888889,
        "ElevationAboveSeaLevel": null,
        "DisplayFlag": null
}
```





## **Location Search**

## Description:

The location search provides the details for a single specific station similar to station list.

#### Parameters:

Access Token: must use the current access token on this request

Search String: can this be zip or city name or city code

#### Request:

https://thepulseapi.earthnetworks.com/getLocations/data/locations/v2/location?cultureInfo=en-us&searchString=86503&verbose=true&maxresults=20&access\_token>

#### Response:

```
"CityId": "US04C0012",
  "CityName": "Chinle",
  "Territory": "Arizona",
  "StateCode": "AZ",
  "Country": "US",
  "Latitude": 36.1209,
  "Longitude": -109.5237,
  "Dma": "790",
  "Zip": "86503"
},
  "CityId": "US04T0015",
  "CityName": "Tsaile",
  "Territory": "Arizona",
  "StateCode": "AZ",
  "Country": "US",
  "Latitude": 36.3243,
  "Longitude": -109.269,
  "Dma": "790",
  "Zip": "86556"
},
  "CityId": "US04N0002",
  "CityName": "Nazlini",
  "Territory": "Arizona",
  "StateCode": "AZ",
"Country": "US",
  "Latitude": 35.8982,
  "Longitude": -109.446,
  "Dma": "790",
  "Zip": "86540"
},
  "CityId": "US04L0008",
  "CityName": "Lukachukai",
```





```
"Territory": "Arizona",
    "StateCode": "AZ",
    "Country": "US",
    "Latitude": 36.3989,
    "Longitude": -109.2586,
    "Dma": "790",
    "Zip": "86507"
}
```

## **Real Time Weather Observations**

## Description:

The Earth Networks Observation Data Feed will provide you with a set of current condition data based on the location requested. Logic is in place to always return the best observation for the location requested based on age, distance and accuracy.

Parameters for Latitude/Longitude:

Parameter Name	Required (R) or Optional (O)	Description	Input options	Default
location	R	Latitude and Longitude Coordinates	Must be valid Latitude/Longitude in format:  " <latitude>,<longitude> "</longitude></latitude>	N/A
units	0	Metric or English units	"metric" or "english"	"metric"
cultureinfo	0	Language	"en-en" (English), "es-es" (Spanish), or "fr-fr" (French)	"en-en"
verbose	0	Abbreviations (false) or long variable names (true)	"false" or "true"	"false"
access_token	R	The access token returned from OAuth call	Must match given token	N/A





#### Parameters for StationId:

Parameter Name	Required (R) or Optional (O)	Description	Input options	Default
providerid	R	Provider the station is part of	Must be valid ID from Search Station API	N/A
stationid	R	Identifier for station	Must be valid ID from Search Station API	NA
units	0	Metric or English units	"metric" or "english"	"metric"
cultureinfo	0	Language	"en-en" (English), "es-es" (Spanish), or "fr-fr" (French)	"en-en"
verbose	0	Abbreviations (false) or long variable names (true)	"false" or "true"	"false"
access_token	R	The access token returned from OAuth call	Must match given token	N/A

## Latitude/Longitude Request:

https://thepulseapi.earthnetworks.com/data/observations/v1/current?location=<location>&locationtype=latitudelongitude&units=<units>&cultureinfo=<cultureinfo>&verbose=<verbose>&access\_token=<access token>

**Latitude/Longitude** Example (using real coordinates and invalid example access token "piR0mwXWhyOrKDQcOszkNZqzCcJr"):

https://thepulseapi.earthnetworks.com/data/observations/v1/current?location=39.1,-77.1&locationtype=latitudelongitude&units=english&cultureinfo=enen&verbose=true&access token=piRomwXWhyOrKDQcOszkNZqzCcJr

## **StationId** Request:

https://thepulseapi.earthnetworks.com/data/observations/v1/current?providerid=<providerid>&stationidd=<stationid>&units=<units>&cultureinfo=<cultureinfo>&verbose=<verbose>&access\_token=<access token>

**StationId** Example (using real coordinates and invalid example access token "piR0mwXWhyOrKDQcOszkNZqzCcJr"):

https://thepulseapi.earthnetworks.com/data/observations/v1/current?providerid=3&stationid=CNTQC&units=metric&cultureinfo=en-en&verbose=true&access\_token=piRomwXWhyOrKDQcOszkNZqzCcJr





```
Response:
  "key": null,
  "stationId": "REKVL",
  "providerId": 3,
  "observationTimeLocalStr": "2014-01-29T15:05:58",
  "observationTimeUtcStr": "2014-01-29T20:05:58",
  "iconCode": null,
  "altimeter": null,
  "altimeterRate": null,
  "dewPoint": -2.0,
  "dewPointRate": null,
  "heatIndex": 20.7,
  "humidity": 36.0,
  "humidityRate": -2.8,
  "pressureSeaLevel": 30.22,
  "pressureSeaLevelRate": -0.02,
  "rainDaily": 0.0,
  "rainRate": 0.0,
  "rainMonthly": 1.67,
  "rainYearly": 1.67,
  "snowDaily": null,
  "snowRate": null,
  "snowMonthly": null,
  "snowYearly": null,
  "temperature": 20.7,
  "temperatureRate": 2.0,
  "visibility": null,
  "visibilityRate": null,
  "windChill": 14.2,
  "windSpeed": 4.6,
  "windDirection": 276,
  "windSpeedAvg": 3.7,
  "windDirectionAvg": 273,
  "windGustHourly": 17.5,
  "windGustTimeLocalHourlyStr": "2014-01-29T14:20:00",
  "windGustTimeUtcHourlyStr": "2014-01-29T19:20:00",
  "windGustDirectionHourly": 273,
  "windGustDaily": 17.8,
  "windGustTimeLocalDailyStr": "2014-01-29T11:04:00",
  "windGustTimeUtcDailyStr": "2014-01-29T16:04:00",
  "windGustDirectionDaily": 251,
  "observationTimeAdjustedLocalStr": "2014-01-29T15:06:36",
  "feelsLike": 14.2
```

## **Observation Variables:**

The table below outlines the Observation variables contained within the Observation data feed. It also defines the units, format, min/max values, and precision for each variable.





Please note that extensive quality control measures of the data will be implemented to ensure that data values are reasonable. While rare, it is possible that data may occasionally be missing in the Observation Data Feed. If the data is missing, it will be saved as "Null". A null space is defined as being this: Null = ' '.

Table 1: The Earth Networks Observation Data Feed Version 1.0

Variable Field (short/long)	Variable Name	Units (Metric/English)	Format	Min Value	Max Value	Precision
k/key	Key	-	(always null)	-	-	-
si/stationId	Station ID	Text	4 or 5 Characters	N/A	N/A	4 or 5 Character
pi/providerId	Provider ID	Whole Number	1 or 2 Digits	N/A	N/A	Whole Number
otls/observationTime LocalStr	Observation Time, Local	Text/Local Time Zone of Station	yyyy-MM- ddThh:mm: ss	1969-12- 31T19:00: 00	Presen t Time	1 second
otus/observationTim eUtcStr	Observation Time, UTC	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00	Presen t Time	1 second
Ic/iconCode	Icon Code	Whole Number	1 to 3 Digits	000	282	Whole Number
a/altimeter	Altimeter	(Millibars/inches of Mercury)	####	N/A	N/A	1 millibar/0. 01 inches of Mercury
ar/alimeterRate	Altimeter Rate	(Millibars/inches of Mercury) per hour	##/-##	N/A	N/A	1 millibar/0. 01 inches of Mercury





						per hour
dp/dewPoint	Dew Point	Degrees	##.#/-##.#	-100	100	0.1
	Dew Point	(Celsius/Fahrenheit)				degrees
dpr/dewPointRate		Degrees	##.#/-##.#	N/A	N/A	0.1
	Dew Point Rate	(Celsius/Fahrenheit)				degrees
		per hour				per hour
hi/heatIndex	Heat Index	Degrees	##.#/-##.#	-100	100	0.1
	rieat ilidex	(Celsius/Fahrenheit)				degrees
h/humidity	Humidity	Percent relative	##.#	0	100	0.1
	Hamilatty	humidity				percent
hr/humidityRate		Change per hour of	##.#/-##.#	-100	100	0.1
	<b>Humidity Rate</b>	percent relative				percent
		humidity				per hour
psl/pressureSeaLevel			####	N/A	N/A	1
		(Millibars/inches of				millibar/0.
	Sea Level Pressure	Mercury)				01 inches
		ivicioui y)				of
						Mercury
pslr/pressureSeaLeve			##/-##	N/A	N/A	1
lRate						millibar/0.
	Sea Level Pressure	(Millibars/inches of				01 inches
	Rate	Mercury) per hour				of
						Mercury
						per hour
rd/rainDaily			###.#	0	N/A	0.1
	Daily Rain	(Millimeters/Inches)				millimeters
	,					/ 0.01
						inches
rr/rainRate			###.#	0	N/A	0.1
		(Millimeters/Inches)				millimeters
	Rain Rate	per hour				/ 0.01
		·				inches per
			,,			hour
rm/rainMonthly			###.#	0	N/A	0.1
	Monthly Rain	(Millimeters/Inches)				millimeters
	-	·				/ 0.01
1		(nath to the		•	A1 / 2	inches
ry/rainYearly	Yearly Rain	(Millimeters/Inches)	###.#	0	N/A	0.1





			<u> </u>		1	mailline et e
						millimeters
						/ 0.01
					_	inches
sd/snowDaily			###.#	0	N/A	0.1
	Daily Snow	(Millimeters/Inches)				millimeters
	, , , ,					/ 0.01
						inches
sr/snowRate			###.#	0	N/A	0.1
		(Millimeters/Inches)				millimeters
	Snow Rate	per hour				/ 0.01
		per nour				inches per
						hour
sm/snowMonthly			###.#	0	N/A	0.1
	Monthly Snow	(Millimeters/Inches)				millimeters
	IVIOIILIIIY SIIOW	(willingleters/inches)				/ 0.01
						inches
sy/snowYearly			###.#	0	N/A	0.1
	V 1 C	/8 A:11:				millimeters
	Yearly Snow	(Millimeters/Inches)				/ 0.01
						inches
t/temperature	<b>-</b> .	Degrees	##.#/-##.#	-100	100	0.1
	Temperature	(Celsius/Fahrenheit)				degrees
tr/temperatureRate		Dogrado (Coloivo)	##.#/-##.#		N/A	0.1
	Temperature Rate	Degrees (Celsius/				degrees
		Fahrenheit) per hour				per hour
v/visibility			##.#	0	N/A	0.1
	Visibility	Kilometers/Miles				kilometers
						/ 0.1 miles
vr/visibilityRate			##.#	0	N/A	0.1
vi/ visibilityNate		Kilometers/Miles per	##.#	U	IN/A	kilometers
	Visibility Rate					
		hour				/ 0.1 miles
		Daging	дд д/ пп п	100	100	per hour
wc/windChill	Wind Chill	Degrees	##.#/-##.#	-100	100	0.1
/		(Celsius/Fahrenheit)	,,,,,			degrees
ws/windSpeed		Kilometers/Miles per	##.#		N/A	0.1
	Wind Speed	hour				kilometers
						/ 0.1 miles





						per hour
wd/windDirection	Wind Direction	Degrees from north (clockwise)	###	0	359	1 degree
wsa/windSpeedAvera ge	Average Wind Speed	Kilometers/Miles per hour	##.#	N/A	N/A	0.1 kilometers / 0.1 miles per hour
wda/windDirectionAv erage	Average Wind Direction	Degrees from north (clockwise)	###	0	359	1 degree
wgh/windGustHourly	Hourly Wind Gust	Kilometers/Miles per hour	##.#	0	N/A	0.1 kilometers / 0.1 miles per hour
wgtlhs/ windGustTimeLocalH ourlyStr	Hourly Wind Gust Time, Local	Text/Local Time Zone of Station	yyyy-MM- ddThh:mm: ss	1969-12- 31T19:00: 00	Presen t Time	1 second
wgtuhs/ windGustTimeUtcHo urlyStr	Hourly Wind Gust Time, UTC	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00	Presen t Time	1 second
wgdh/ windGustDirectionHo urly	Hourly Wind Gust Direction	Degrees from north (clockwise)	###	0	359	1 degree
wgd/windGustDaily	Daily Wind Gust	Kilometers/Miles per hour	##.#	0	N/A	0.1 kilometers / 0.1 miles per hour
wgtlds/ windGustTimeLocalD ailyStr	Daily Wind Gust Time, Local	Text/Local Time Zone of Station	yyyy-MM- ddThh:mm: ss	1969-12- 31T19:00: 00		1 second
wgtuds/ windGustTimeUtcDail yStr	Daily Wind Gust Time, UTC String	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss		Presen t Time	1 second
wgdd/ windGustDirectionDa ily	Daily Wind Gust Direction	Degrees from north (clockwise)	###	0	359	1 degree
fl/feelsLike	Feels Like (Heat Index/Wind Chill)	Degrees (Celsius/Fahrenheit)	##.#/-##.#	-100	100	0.1 degrees





**Table 2: Wind Direction Descriptor Lookup Table** 

Compass Wind Direction	Wind Direction	Wind Direction Abbreviation
349-359 or 0-11	north	N
12-34	north-northeast	NNE
35-56	northeast	NE
57-78	east-northeast	ENE
79-101	east	E
102-123	east-southeast	ESE
124-146	southeast	SE
147-168	south-southeast	SSE
169-191	south	S
192-213	south-southwest	SSW
214-236	southwest	SW
237-258	west-southwest	WSW
259-281	west	W
282-303	west-northwest	WNW
304-326	northwest	NW
327-348	north-northwest	NNW

**Table 3: Icon Code and Description Name** 

Icon		Day or
Code	Icon Description	Night
000	Clear	Day
001	Cloudy	Day
002	Partly Cloudy	Night
003	Partly Cloudy	Day
004	Partly Sunny	Day
005	Rain	Day
006	Thunderstorms	Day
007	Sunny	Day
008	Snow	Day
009	Flurries	Day





010	Unknown	Day
011	Chance of Snow	Day
012	Snow	Night
013	Cloudy	Night
014	Rain	Night
015	Chance of Rain	Night
016	Partly Cloudy	Night
017	Clear	Night
018	Thunderstorms	Night
019	Chance of Flurries	Day
020	Chance of Rain	Day
021	Chance of Sleet	Day
022	Chance of Storms	Day
023	Hazy	Day
024	Mostly Cloudy	Day
025	Sleet	Day
026	Mostly Sunny	Day
027	Chance of Flurries	Night
028	Chance of Sleet	Night
029	Chance of Snow	Night
030	Chance of Storms	Night
031	Clear	Night
032	Flurries	Night
033	Hazy	Night
034	Mostly Cloudy	Day
035	Mostly Sunny	Day
036	Sleet	Night
037	Unknown	Night
	Chance of Rain	
038	Showers	Day
	Chance of Snow	
039	Showers	Day
040	Snow Showers	Day
041	Rain Showers	Day
	Chance of Rain	
042	Showers	Night
	Chance of Snow	
043	Showers	Night
044	Snow Showers	Night
045	Rain Showers	Night
046	Freezing Rain	Day
047	Freezing Rain	Night
048	Chance of Freezing	Day





	Rain	
	Chance of Freezing	
049	Rain	Night
050	Windy	Day
051	Foggy	Day
052	Scattered Showers	Day
	Scattered	
053	Thunderstorms	Day
054	Light Snow	Day
055	Chance of Light Snow	Day
056	Frozen Mix	Day
057	Chance of Frozen Mix	Day
058	Drizzle	Day
059	Chance of Drizzle	Day
060	Freezing Drizzle	Day
	Chance of Freezing	
061	Drizzle	Day
062	Heavy Snow	Day
063	Heavy Rain	Day
064	Hot and Humid	Day
065	Very Hot	Day
066	Increasing Clouds	Day
067	Clearing	Day
068	Mostly Cloudy	Day
069	Very Cold	Day
070	Mostly Clear	Night
071	Increasing Clouds	Night
072	Clearing	Night
073	Mostly Cloudy	Night
074	Very Cold	Night
075	Warm and Humid	Night
076	Now	Day
077	Exclamation	Day
078	30% Chance of Snow	Day
079	40% Chance of Snow	Day
080	50% Chance of Snow	Day
081	30% Chance of Rain	Night
082	40% Chance of Rain	Night
083	50% Chance of Rain	Night
	30% Chance of	
084	Flurries	Day
	40% Chance of	
085	Flurries	Day





	50% Chance of	
086	Flurries	Day
087	30% Chance of Rain	Day
088	40% Chance of Rain	Day
089	50% Chance of Rain	Day
090	30% Chance of Sleet	Day
091	40% Chance of Sleet	Day
092	50% Chance of Sleet	Day
	30% Chance of	
093	Storms	Day
	40% Chance of	
094	Storms	Day
	50% Chance of	
095	Storms	Day
	30% Chance of	
096	Flurries	Night
	40% Chance of	
097	Flurries	Night
	50% Chance of	
098	Flurries	Night
099	30% Chance of Sleet	Night
100	40% Chance of Sleet	Night
101	50% Chance of Sleet	Night
102	30% Chance of Snow	Night
103	40% Chance of Snow	Night
104	50% Chance of Snow	Night
	30% Chance of	
105	Storms	Night
	40% Chance of	
106	Storms	Night
	50% Chance of	
107	Storms	Night
	30% Chance Rain	_
108	Showers	Day
400	40% Chance Rain	
109	Showers	Day
440	50% Chance Rain	6
110	Showers	Day
111	30% Chance Snow	Devi
111	Showers	Day
112	40% Chance Snow	Day
112	Showers	Day
113	50% Chance Snow	Day





-			
	Showers		
	30% Chance Rain		
114	Showers	Night	
	40% Chance Rain		
115	Showers	Night	
	50% Chance Rain		
116	Showers	Night	
	30% Chance Snow		
117	Showers	Night	
	40% Chance Snow		
118	Showers	Night	
	50% Chance Snow		
119	Showers	Night	
	30% Chance Freezing		
120	Rain	Day	
	40% Chance Freezing	-	
121	Rain	Day	
	50% Chance Freezing	,	
122	Rain	Day	
	30% Chance Freezing		
123	Rain	Night	
	40% Chance Freezing		
124	Rain	Night	
	50% Chance Freezing	,	
125	Rain	Night	
	30% Chance Light		
126	Snow	Day	
	40% Chance Light	•	
127	Snow	Day	
	50% Chance Light	-	
128	Snow	Day	
	30% Chance Frozen	-	
129	Mix	Day	
	40% Chance Frozen	•	
130	Mix	Day	
	50% Chance Frozen		
131	Mix	Day	
	30% Chance of	-	
132	Drizzle	Day	
	40% Chance of	-	
133	Drizzle	Day	
	50% Chance of		
134	Drizzle	Day	





	30% Chance Freezing			
135	Drizzle	Day		
	40% Chance Freezing	_		
136	Drizzle	Day		
_	50% Chance Freezing			
137	Drizzle	Day		
138	Chance of Snow	Day		
139	Chance of Rain Da			
140	Chance of Flurries Da			
141	Chance of Rain	Day		
142	Chance of Sleet	Day		
143	Chance of Storms	Day		
144	Chance of Flurries	Day		
145	Chance of Sleet	Day		
146	Chance of Snow	Day		
147	Chance of Storms	Day		
	Chance of Rain			
148	Showers	Day		
	Chance of Snow			
149	Showers	Day		
	Chance of Rain			
150	Showers	Day		
	Chance of Snow			
151	Showers	Day		
	Chance of Freezing			
152	Rain	Day		
	Chance of Freezing			
153	Rain	Day		
154	Chance of Light Snow	Day		
155	Chance of Frozen Mix	Day		
156	Chance of Drizzle	Day		
	Chance of Freezing			
157	Drizzle	Day		
158	Windy Nig			
159	Foggy	Night		
160	Light Snow	Night		
161	Frozen Mix	Night		
162	Drizzle	Night		
163	Heavy Rain Nigl			
164	Chance of Frozen Mix	Night		
165	Chance of Drizzle Nigh			
	Chance of Frozen	-		
166	Drizzle	Night		





	30% Chance of		
167	Drizzle	Night	
	30% Chance Frozen	0 1	
168	Drizzle	Night	
	30% Chance Frozen		
169	Mix	Night	
	40% Chance of		
170	Drizzle	Night	
	40% Chance Frozen		
171	Drizzle	Night	
	40% Chance Frozen		
172	Mix	Night	
	50% Chance of		
173	Drizzle	Night	
	50% Chance Frozen		
174	Drizzle	Night	
	50% Chance Frozen		
175	Mix	Night	
176	Chance of Light Snow	Night	
	30% Chance Light		
177	Snow	Night	
	40% Chance Light		
178	Snow	Night	
	50% Chance Light		
179	Snow	Night	
	Scattered		
180	Thunderstorms	Day	
181	Freezing Drizzle	Night	
182	Scattered Showers	Night	
	Scattered		
183	Thunderstorms	Night	
184	Warm and Humid	Night	
185	60% Chance of Snow	Day	
186	70% Chance of Snow	Day	
187	80% Chance of Snow	Day	
188	60% Chance of Rain	Night	
189	70% Chance of Rain	Night	
190	80% Chance of Rain	Night	
	60% Chance of		
191	191 Flurries		
	70% Chance of		
192	Flurries	Day	
193	80% Chance of Day		





	Flurries			
194	60% Chance of Rain	Day		
195	70% Chance of Rain Day			
196	80% Chance of Rain Day			
197	60% Chance of Sleet Day			
198	70% Chance of Sleet Da			
199	80% Chance of Sleet Day			
	60% Chance of	-		
200	Storms	Day		
	70% Chance of	-		
201	Storms	Day		
	80% Chance of	,		
202	Storms	Day		
	60% Chance of	,		
203	Flurries	Night		
	70% Chance of	0 1		
204	Flurries	Night		
	80% Chance of			
205	Flurries	Night		
206	60% Chance of Sleet	Night		
207	70% Chance of Sleet	Night		
208	80% Chance of Sleet	Night		
209	60% Chance of Snow	Night		
210	70% Chance of Snow	Night		
211	80% Chance of Snow	Night		
211	60% Chance of	1418110		
212	Storms	Night		
	70% Chance of	1118111		
213	Storms	Night		
213	80% Chance of	1418110		
214	Storms	Night		
	60% Chance Rain	1118111		
215	Showers	Day		
213	70% Chance Rain	Day		
216	Showers	Day		
	80% Chance Rain	,		
217	Showers Day			
	60% Chance Snow	1		
218	Showers	Day		
	70% Chance Snow			
219	Showers	Day		
	80% Chance Snow			
220	Showers	Day		
220	SITOVVCIS	Day		





1		
60% Chance Rain		
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	Day	
70% Chance Light		
Snow	Day	
80% Chance Light		
Snow	Day	
60% Chance Frozen		
Mix	Day	
70% Chance Frozen		
Mix	Day	
80% Chance Frozen		
Mix	Day	
60% Chance of		
Drizzle	Day	
70% Chance of		
Drizzle	Day	
80% Chance of		
Drizzle	Day	
60% Chance Freezing Day		
	Showers 70% Chance Rain Showers 80% Chance Rain Showers 60% Chance Snow Showers 70% Chance Snow Showers 80% Chance Snow Showers 60% Chance Freezing Rain 70% Chance Freezing Rain 60% Chance Freezing Rain 60% Chance Freezing Rain 60% Chance Freezing Rain 70% Chance Freezing Rain 60% Chance Light Snow 60% Chance Frozen Mix 70% Chance Frozen Mix 80% Chance Frozen Mix 80% Chance Frozen Mix 80% Chance of Drizzle 70% Chance of Drizzle 80% Chance of Drizzle	





	Drizzle		
	70% Chance Freezing		
243	Drizzle	Day	
	80% Chance Freezing		
244	Drizzle	Day	
	60% Chance Light		
245	Snow Nigh		
	70% Chance Light		
246	Snow	Night	
	80% Chance Light		
247	Snow	Night	
	60% Chance Frozen		
248	Mix	Night	
	70% Chance Frozen		
249	Mix	Night	
	80% Chance Frozen		
250	Mix	Night	
251	Chance of Light Rain	Night	
	30% Chance of Light		
252	Rain	Night	
	40% Chance of Light		
253	Rain	Night	
	50% Chance of Light		
254	Rain	Night	
	60% Chance of Light		
255	Rain	Night	
	70% Chance of Light		
256	Rain	Night	
	80% Chance of Light		
257	Rain	Night	
258	Light Rain	Night	
259	Chance of Light Rain	Day	
	30% Chance of Light		
260	Rain	Day	
	40% Chance of Light		
261	Rain	Day	
	50% Chance of Light		
262	Rain	Day	
	60% Chance of Light		
263	Rain	Day	
	70% Chance of Light		
264	Rain	Day	
265	80% Chance of Light	Day	
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	Rain	
266	Light Rain Day	
267	Heavy Snow	Night
	Chance of Heavy	
268	Snow Nig	
	30 % Chance of	
269	Heavy Snow	Night
	40% Chance of Heavy	
270	Snow	Night
	50% Chance of Heavy	
271	Snow	Night
	60% Chance of Heavy	
272	Snow	Night
	70% Chance of Heavy	
273	Snow	Night
	80% Chance of Heavy	
274	Snow	Night
275	Heavy Snow	Day
	Chance of Heavy	
276	Snow	Day
	30% Chance of Heavy	
277	Snow	Day
	40% Chance of Heavy	
278	Snow D	
	50% Chance of Heavy	
279	Snow	Day
	60% Chance of Heavy	
280	Snow Day	
	70% Chance of Heavy	
281	Snow Da	
	80% Chance of Heavy	
282	Snow	Day

## Request:

https://thepulseapi.earthnetworks.com/data/observations/v1/current?location=<location>&locationtype=latitudelongitude&units=<units>&cultureinfo=<cultureinfo>&verbose=<verbose>&access\_token=<access token>





## 10 Day-Night Forecast

### Description:

The Earth Networks ENCast City 10 Day-Night Forecast Feed provides a descriptive day and night period forecast covering the next 10 days. The day period of the forecast is considered to be 7am-7pm local time, while the night period of the forecast is considered to be the hours straddling the date change from 7pm to 7am local time.

This forecast will be available for 2.6 million cities across the entire globe and will be available in multiple languages.

The forecast will be updated twice per day by 09:30 UTC and 21:30 UTC.

Important: Please note that all the data is sent in metric units (note units and precision shown in Table 1.) and decimal points should be respected when doing conversions to English units.

#### Request:

https://thepulseapi.earthnetworks.com/data/forecasts/v1/daily?location=<location>&locationtype=<locationtype>&units=<units>&cultureinfo=<cultureinfo>&verbose=<verbose>&access\_token=<access token>

Example for forecast data by City ID (using real EN City ID and valid example access token "piRomwXWhyOrKDQcOszkNZqzCcJr"):

https://thepulseapi.earthnetworks.com/data/forecasts/v1/daily?location=USo1Oooo7&locationtype=city&units=english&cultureinfo=enen&verbose=true&access token=piRomwXWhyOrKDQcOszkNZqzCcJr

## Response:

```
"dailyForecastPeriods": [
    "cloudCoverPercent": 100,
    "dewPoint": 10.4,
    "iconCode": 24,
    "precipCode": 2,
    "precipProbability": 0,
    "relativeHumidity": 55,
    "summaryDescription": "Mostly Cloudy",
    "temperature": 28.0,
    "thunderstormProbability": 0,
    "windDirectionDegrees": 357,
    "windSpeed": 8.9,
```



```
"detailedDescription": "Mostly cloudy. Highs in the upper 20s. North
winds 5 to 10 mph. ",
      "forecastDateLocalStr": "2014-01-29T07:00:00",
      "forecastDateUtcStr": "2014-01-29T13:00:00Z",
      "isNightTimePeriod": false
    },
    {
      "cloudCoverPercent": 20,
      "dewPoint": 8.6,
      "iconCode": 73,
      "precipCode": 2,
      "precipProbability": 0,
      "relativeHumidity": 63,
      "summaryDescription": "Mostly Cloudy",
      "temperature": 11.0,
      "thunderstormProbability": 0,
      "windDirectionDegrees": 12,
      "windSpeed": 11.2,
      "detailedDescription": "Mostly cloudy in the evening then clearing. Lows
around 11. North winds around 5 mph. ",
      "forecastDateLocalStr": "2014-01-29T19:00:00",
      "forecastDateUtcStr": "2014-01-30T01:00:00Z",
      "isNightTimePeriod": true
    },
    {
      "cloudCoverPercent": 0,
      "dewPoint": 17.6,
      "iconCode": 7,
      "precipCode": 3,
      "precipProbability": 0,
      "relativeHumidity": 54,
      "summaryDescription": "Sunny",
      "temperature": 47.0,
      "thunderstormProbability": 0,
      "windDirectionDegrees": 76,
      "windSpeed": 6.7,
      "detailedDescription": "Not as cool. Sunny. Highs in the upper 40s. East
winds around 5 mph. ",
      "forecastDateLocalStr": "2014-01-30T07:00:00",
      "forecastDateUtcStr": "2014-01-30T13:00:00Z",
      "isNightTimePeriod": false
    },
    {
      "cloudCoverPercent": 0,
      "dewPoint": 21.2,
      "iconCode": 31,
      "precipCode": 3,
      "precipProbability": 0,
      "relativeHumidity": 78,
      "summaryDescription": "Clear",
      "temperature": 28.0,
      "thunderstormProbability": 0,
      "windDirectionDegrees": 101,
      "windSpeed": 8.9,
      "detailedDescription": "Not as cold. Clear. Lows in the mid 20s. Light
winds. ",
      "forecastDateLocalStr": "2014-01-30T19:00:00",
```





```
"forecastDateUtcStr": "2014-01-31T01:00:00Z",
      "isNightTimePeriod": true
    },
    {
      "cloudCoverPercent": 39,
      "dewPoint": 33.8,
      "iconCode": 7,
      "precipCode": 3,
      "precipProbability": 10,
      "relativeHumidity": 64,
      "summaryDescription": "Sunny",
      "temperature": 62.0,
      "thunderstormProbability": 0,
      "windDirectionDegrees": 113,
      "windSpeed": 4.5,
      "detailedDescription": "Not as cool. Sunny. Highs in the lower 60s. South
winds around 5 mph. ",
      "forecastDateLocalStr": "2014-01-31T07:00:00",
      "forecastDateUtcStr": "2014-01-31T13:00:00Z",
      "isNightTimePeriod": false
    }
    }
```

<u>Forecast Variables:</u> Table 1 below outlines the forecast variables contained within the ENCast City 10 Day-Night Forecast Feed Version 1.0. It defines the units, format, min/max values, and precision for each variable.

Please note that extensive quality control measures of the data will be implemented to ensure that data values are reasonable. While rare, it is possible that data may occasionally be missing in the forecast file. If the data is missing, it will be saved as "Null". A null space is defined as: Null = ' '.

Table: The Earth Networks 10 Day-Night Forecast

	able. The Laith Ne		Tilgire i di dedice			
Variable Field						
(abbreviation/long	Variable Name	Units	Format	Min Value	Max Value	Precision
name)						
ccp/cloudCoverPercent	Cloud Cover	%	Whole Number	0	100	Whole Number
	Percentage					
dp/dewPoint	Dew Point	Degrees	Whole Number	-100	150	.1
		Fahrenheit/				
		Celsius				
ic/iconCode	Icon Code	Number	Whole Number	000	282	Whole Number
pc/precipCode	Precipitation Code	Number	Whole Number	0	6	Whole Number
pp/precipProbability	Precipitation	%	Whole Number	0	100	Whole Number
	Probability					
rh/relativeHumidity	Relative Humidity	%	Whole Number	0	100	Whole Number
sd/summaryDescription	Summary	Text	Brief Phrase	N/A	N/A	N/A
	Description					
t/temperature	Temperature	Degrees	Decimal	-100	150	.1
	(High/Low	Fahrenheit/				
	depending on					





	Day/Night)	Celsius				
tp/ thunderstormProbabilit y	Thunderstorm Probability	%	Whole Number	0	100	Whole Number
wdd/ windDirectionDegrees	Wind Direction	Degrees from North	Whole Number	0	359	Whole Number
ws/windSpeed	Wind Speed	Miles/ Kilometers Per Hour	Decimal	0	200	.1
dd/detailedDescription	Detailed Description	Text	Brief Sentences	N/A	N/A	N/A
fdls/ forecastDateLocalStr	Forecast Date, Local Time	Time	YYYY-MM-DD T HH:MM:SS	1969-12- 31T19:00	Present Time	N/A
fdus/forecastDateUtcSt r	Forecast Date, UTC Time	Time	YYYY-MM-DD T HH:MM:SS Z	1970-01- 01T00:00 Z	Present Time	N/A
intp/isNightTimePeriod	Is Night Time Period	Boolean	true/false	N/A	N/A	N/A

## Table: The Earth Networks 10 Day-Night Forecast Variable Valid Times and Descriptions

"Day" Valid Time = 700 – 1900 Local Time "Night" Valid Time = 1900 –700 Local Time (reflected in Is Night Time Period variable)

Variable Name (Expected by EN)	Units (Metric/English)	Data Description (period = Day/Night depending on time)
Temp, Day	Degrees (Celsius/Fahrenheit)	High during Day
Temp, Night	Degrees (Celsius/Fahrenheit)	Low during Night
Dew Point	Degrees (Celsius/Fahrenheit)	Average value during period
Relative Humidity	%	Average value during period
Wind Speed	(Kilometers/Miles) Per Hour	Average value during period
Wind Direction	Degrees from North 0-359	Average value during period
Cloud Cover	%	Average value during period
Precipitation Probability	%	Max value during period – probability of .01" or more of precipitation occurring at the forecast point
Precipitation Type	Code 0-6	Type of precipitation expected during period
Thunderstorm Probability	%	Max value during period – probability of thunder being heard at the forecast point





## **Table: Precipitation Type Code Definitions**

CODE	Precip Type	
0	no	
	precipitation	
1	rain	
2	snow	
3	rain-snow mix	
4	sleet	
5	freezing rain	
6	frozen mix	

## Table: Precipitation Chance Descriptor Lookup Table

% Chance	Snow/Rain/Ice Descriptor	Thunderstorm Descriptor
0-10	no chance	none
11-20	slight chance	isolated
21-30	slight chance	widely scattered
31-40	chance	scattered
41-50	chance	scattered
51-60	chance	scattered
61-70	probable	numerous
71-80	probable	numerous
81-90	likely	widespread
91-100	likely	widespread

## Table: Cloud Cover Descriptor Lookup Table

Cloud	Cloud	Cloud
Cover %	Cover	Cover
	(Day)	(Night)
0-9	sunny	clear
10-29	mostly	mostly
	sunny	clear
10-29	mostly	mostly
	sunny	clear
30-69	partly	partly
	cloudy	cloudy
30-69	partly	partly
	cloudy	cloudy
30-69	partly	partly
	cloudy	cloudy
70-89	mostly	mostly
	cloudy	cloudy
70-89	mostly	mostly
	cloudy	cloudy
90-100	cloudy	cloudy





## Table: Wind Direction Descriptor Lookup Table

Compass Wind Direction	Wind Direction	Wind Direction Abbreviation
349-359 or 0- 11	north	N
12-34	north- northeast	NNE
35-56	northeast	NE
57-78	east- northeast	ENE
79-101	east	E
102-123	east- southeast	ESE
124-146	southeast	SE
147-168	south- southeast	SSE
169-191	south	S
192-213	south- southwest	SSW
214-236	southwest	SW
237-258	west- southwest	WSW
259-281	west	W
282-303	west- northwest	WNW
304-326	northwest	NW
327-348	north- northwest	NNW

## Table: Icon Code and Description Name

Icon Code	Icon Description	Day or Night
000	Clear	Day
001	Cloudy	Day
002	Partly Cloudy	Night
003	Partly Cloudy	Day
004	Partly Sunny	Day
005	Rain	Day
006	Thunderstorms	Day
007	Sunny	Day
008	Snow	Day
009	Flurries	Day
010	Unknown	Day
011	Chance of Snow	Day
012	Snow	Night
013	Cloudy	Night
014	Rain	Night





015	Chance of Rain	Night
016	Partly Cloudy	Night
017	Clear	Night
018	Thunderstorms	Night
019	Chance of Flurries	Day
020	Chance of Rain	Day
021	Chance of Sleet	Day
022	Chance of Storms	Day
023	Hazy	Day
024	Mostly Cloudy	Day
025	Sleet	Day
026	Mostly Sunny	Day
027	Chance of Flurries	Night
028	Chance of Sleet	Night
029	Chance of Snow	Night
030	Chance of Storms	Night
031	Clear	Night
032	Flurries	Night
033	Hazy	Night
034	Mostly Cloudy	Day
035	Mostly Sunny	Day
036	Sleet	Night
	Unknown	Night
037 038	Chance of Rain Showers	
	Chance of Snow Showers	Day
039	Snow Showers	Day Day
040	Rain Showers	-
041	Chance of Rain Showers	Day Night
	Chance of Snow Showers	
043	Snow Showers	Night Night
044	Rain Showers	
045 046	Freezing Rain	Night Day
	Freezing Rain	Night
047		
048	Chance of Freezing Rain Chance of Freezing Rain	Day
049	Windy	Night
050	· ·	Day
051	Foggy	Day
052	Scattered Showers	Day
053	Scattered Thunderstorms Light Snow	Day
054		Day
055	Chance of Light Snow Frozen Mix	Day
056		Day
057	Chance of Frozen Mix	Day
058	Drizzle	Day
059	Chance of Drizzle	Day
060	Freezing Drizzle	Day
061	Chance of Freezing Drizzle	Day
062	Heavy Snow	Day
063	Heavy Rain	Day





065         Very Hot         Day           066         Increasing Clouds         Day           067         Clearing         Day           068         Mostly Cloudy         Day           069         Very Cold         Day           070         Mostly Clear         Night           071         Increasing Clouds         Night           071         Increasing Clouds         Night           072         Clearing         Night           073         Mostly Cloudy         Night           074         Very Cold         Night           075         Warm and Humid         Night           076         Now         Day           077         Exclamation         Day           078         30% Chance of Snow         Day           079         40% Chance of Snow         Day           080         50% Chance of Snow         Day           081         30% Chance of Rain         Night           082         40% Chance of Rain         Night           083         40% Chance of Rain         Night           084         30% Chance of Flurries         Day           085         40% Chance of Rain <t< th=""><th>064</th><th>Hot and Humid</th><th>Day</th></t<>	064	Hot and Humid	Day
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067         Clearing         Day           068         Mostly Cloudy         Day           069         Very Cold         Day           070         Mostly Clear         Night           071         Increasing Clouds         Night           072         Clearing         Night           073         Mostly Cloudy         Night           073         Mostly Cloudy         Night           074         Very Cold         Night           075         Warm and Humid         Night           076         Now         Day           077         Exclamation         Day           078         30% Chance of Snow         Day           079         40% Chance of Snow         Day           080         50% Chance of Fain         Night           081         30% Chance of Fain         Night           082         40% Chance of Fain         Night           083         50% Chance of Flurries         Day           084         30% Chance of Flurries         Day           085         40% Chance of Flurries         Day           086         50% Chance of Fain         Day           087         30% Chance of Flurr	-		
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113	50% Chance Snow Showers	Day
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115	40% Chance Rain Showers	Night
116	50% Chance Rain Showers	Night
117	30% Chance Snow Showers	Night
118	40% Chance Snow Showers	Night
119	50% Chance Snow Showers	Night
120	30% Chance Freezing Rain	Day
121	40% Chance Freezing Rain	Day
122	50% Chance Freezing Rain	Day
123	30% Chance Freezing Rain	Night
124	40% Chance Freezing Rain	Night
125	50% Chance Freezing Rain	Night
126	30% Chance Light Snow	Day
127	40% Chance Light Snow	Day
128	50% Chance Light Snow	Day
129	30% Chance Frozen Mix	Day
130	40% Chance Frozen Mix	Day
131	50% Chance Frozen Mix	Day
132	30% Chance of Drizzle	Day
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134	50% Chance of Drizzle	Day
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136	40% Chance Freezing Drizzle	Day
137	50% Chance Freezing Drizzle	Day
138	Chance of Snow	Day
139	Chance of Rain	Day
140	Chance of Flurries	Day
141	Chance of Rain	Day
142	Chance of Sleet	Day
143	Chance of Storms	Day
144	Chance of Flurries	Day
145	Chance of Sleet	Day
146	Chance of Snow	Day
147	Chance of Storms	Day
148	Chance of Rain Showers	Day
149	Chance of Snow Showers	Day
150	Chance of Rain Showers	Day
151	Chance of Snow Showers	Day
152	Chance of Freezing Rain	Day
153	Chance of Freezing Rain	Day
154	Chance of Light Snow	Day
155	Chance of Frozen Mix	Day
156	Chance of Drizzle	Day
157	Chance of Freezing Drizzle	Day
158	Windy	Night
159	Foggy	Night
160	Light Snow	Night
161	Frozen Mix	Night





163	162	Drizzle	Night
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209 60% Chance of Snow Night			





211	80% Chance of Snow	Night
212	60% Chance of Storms	Night
213	70% Chance of Storms	Night
214	80% Chance of Storms	Night
215	60% Chance Rain Showers	Day
216	70% Chance Rain Showers	Day
217	80% Chance Rain Showers	Day
218	60% Chance Snow Showers	Day
219	70% Chance Snow Showers	Day
220	80% Chance Snow Showers	Day
221	60% Chance Rain Showers	Night
222	70% Chance Rain Showers	Night
223	80% Chance Rain Showers	Night
224	60% Chance Snow Showers	Night
225	70% Chance Snow Showers	Night
226	80% Chance Snow Showers	Night
227	60% Chance Freezing Rain	Day
228	70% Chance Freezing Rain	Day
229	80% Chance Freezing Rain	Day
230	60% Chance Freezing Rain	Night
231	70% Chance Freezing Rain	Night
232	80% Chance Freezing Rain	Night
233	60% Chance Light Snow	Day
234	70% Chance Light Snow	Day
235	80% Chance Light Snow	Day
236	60% Chance Frozen Mix	Day
236	70% Chance Frozen Mix	Day
238	80% Chance Frozen Mix	Day
239	60% Chance of Drizzle	Day
240	70% Chance of Drizzle	Day
241	80% Chance of Drizzle	Day
242	60% Chance Freezing Drizzle	Day
243	70% Chance Freezing Drizzle	Day
244	80% Chance Freezing Drizzle	Day
245	60% Chance Light Snow	Night
246	70% Chance Light Snow	Night
247	80% Chance Light Snow	Night
248	60% Chance Frozen Mix	Night
249	70% Chance Frozen Mix	Night
250	80% Chance Frozen Mix	Night
251	Chance of Light Rain	Night
252	30% Chance of Light Rain	Night
253	40% Chance of Light Rain	Night
254	50% Chance of Light Rain	Night
255	60% Chance of Light Rain	Night
256	70% Chance of Light Rain	Night
257	80% Chance of Light Rain	Night
258	Light Rain	Night
259	Chance of Light Rain	Day





260	30% Chance of Light Rain	Day
261	40% Chance of Light Rain	Day
262	50% Chance of Light Rain	Day
263	60% Chance of Light Rain	Day
264	70% Chance of Light Rain	Day
265	80% Chance of Light Rain	Day
266	Light Rain	Day
267	Heavy Snow	Night
268	Chance of Heavy Snow	Night
269	30 % Chance of Heavy Snow	Night
270	40% Chance of Heavy Snow	Night
271	50% Chance of Heavy Snow	Night
272	60% Chance of Heavy Snow	Night
273	70% Chance of Heavy Snow	Night
274	80% Chance of Heavy Snow	Night
275	Heavy Snow	Day
276	Chance of Heavy Snow	Day
277	30% Chance of Heavy Snow	Day
278	40% Chance of Heavy Snow	Day
279	50% Chance of Heavy Snow	Day
280	60% Chance of Heavy Snow	Day
281	70% Chance of Heavy Snow	Day
282	80% Chance of Heavy Snow	Day

## **US Alerts (National Weather Service)**

### Description:

The Alerts request provides up-to-the-minute NWS US weather alerts. Only currently active alerts are returned based on the LatLong entered.

#### Parameters:

Access Token: must use the current access token on this request

### Request:

https://thepulseapi.earthnetworks.com/getPublishedAlerts/data/alerts/v1/alerts?locationtype=latitudelongitude&location=30.3085,-82.2741&verbose=true&cultureInfo=en-us&access\_token>

```
Response:
{
alertList:
[
{
AlertId: "NwsVtec:OPKL-TO.W-0001.2013~FLC003-102127-_102027",
AlertPrimaryId: "NwsVtec:OPKL-TO.W-0001.2013",
AlertProviderId: "NwsVtec",
```





```
AlertSecondaryId: "FLC003-102127- 102027",
AlertType: "TO.W",
AlertTypeName: "Tornado Warning",
ExpiredDateTimeLocalString: "2013-10-10T17:27:00",
ExpiredDateTimeUtcString: "2013-10-10T21:27:00",
IssuedDateTimeLocalString: "2013-10-10T16:27:00",
IssuedDateTimeUtcString: "2013-10-10T20:27:00",
Message: "837 PM EST MON Oct 10 2013 ... YUAN A TORNADOOOO WARNING REMAINS IN EFFECT UNTIL
515 PM CDT FOR SOUTH CENTRAL PERRY AND NORTHEASTERN STONE COUNTIES... ",
Polygon: null,
RawText: "123 WFUS50 KGYF 102027 TORGYF FLC003-102127- /O.NEW.OPKL.TO.W.0001.131010T2027Z-
131010T2127Z/ 837 PM EST MON Oct 10 2013 ... YUAN A TORNADOOOO WARNING REMAINS IN EFFECT
UNTIL 515 PM CDT FOR SOUTH CENTRAL PERRY AND NORTHEASTERN STONE COUNTIES... $$",
PVtec: "/O.NEW.OPKL.TO.W.0001.131010T2027Z-131010T2127Z/"
}
location: "30.3085,-82.2741",
locationType: "latitudelongitude"
}
```

## **Hourly 6-Day Forecast**

### Description:

The hourly forecast call provides hourly forecast data by lat/long. The data itself is updated once an hour at around 20 minutes after the hour. The forecast includes a description of the conditions for that hour. The description will be translated into additional languages according to the culture passed in.

#### Limitations:

The latitude and longitude location type will only provide data if there is a city within 40 miles of the latitude and longitude requested.

### Parameters:

Access Token: must use the current access token on this request

**location**: location to use for querying data from the system. The location is tied to the location type id which is used by the API to determine what the location string actually represents. The current system will support latitude/longitude queries

**locationtype**: the type of the location used in the query. The following is the mapping: latitudelongitude = latitude and longitude

#### **Optional Parameters:**

units: the units determine the return type for the system. Currently the following values are supported:english = all units are returned in English unitsmetric = all units are returned Metric unitsDefault is metric





**offset**: determines the starting period to return. A value of 0 will return the current UTC hour. This means if the forecast hasn't updated yet for the current hour then it may mean that only 143 periods of forecast data are returned.

Default is 0

**length**: determines the number of forecast periods to return. This value can be between 1 and 144. If there is less data then the value, all the data will be returned.

Default is 144

**metadata**: determines if metadata should be returned in the response. Metadata can be used to describe the data returned by the feed.

Default = false

**verbose**: determines if the feed should return parameters names as full text or abbreviations.

Default = false

#### Request:

https://thepulseapi.earthnetworks.com/getHourly6DayForecast/data/forecasts/v1/hourly?location=39,80 &locationtype=latitudelongitude&units=english&offset=0&metadata=true&verbose=true&access token=<a href="mailto:token=cases">token=cases</a> token>

## Response:

```
"hfp": [
"ccp": 95,
"d": "80% Chance of Rain",
"dp": 55.8,
"fl": 58.5,
"fdls": "2013-06-20T05:00:00",
"fdus": "2013-06-19T21:00:00Z",
"ic": 190,
"pc": 1,
"pp": 75,
"pr": 0.05,
"rh": 91,
"t": 58.5,
"tp": 30,
"wdd": 295,
"ws": 8.9
}
],
"forecastCreatedUtcStr": "2013-06-19T20:00:00.0000000Z",
"location": "CH13A0004",
"locationType": "city"
}
```





## **Radar and Maps**

### Description:

Radar and Maps provides URLs for WeatherBug Satellite, Radar, and Temperature maps as well as other various images of the United States, Puerto Rico and the Virgin Islands. Maps can be provided in standard (373x272) size or enlarged (640x480) size. WeatherBug provides the capability for end users to navigate between maps (traveling N, S, E, W), and to zoom in and out between local, regional, and national maps. Navigation XML can be optionally added to provide a way to create an interface for your users to pan and zoom throughout the maps. An animation option allows for a number of time-sequential images to be returned. Cycling through these images provides for a small animation loop. Note that images should be used in the same order as they are returned in the XML. Radar and Maps provide specific information for the given zip code or city code RequestType "RadarAndMaps" or 5

## Input Parameters:

Access Token: must use the current access token on this request RequestType – required

ZipCode – conditionally required PostalCode – conditionally required CityCode - conditionally required

MapId – optional MapType – optional Zoom – optional Animate – optional

Navigation – optional Enlarge - optional

Note: In order for this request to be valid the user shall include either the ZipCode, CityCode or PostalCode attribute.

Parameter Name	Value	Description
Animate	o or blank = Show only the current map URL 1 = Show a list of URLs for animation loops	Provides the animation image list, rather than a single image XML in the response.
CityCode	Integer of length 5.	The city code that identifies this location. This is the value that will be used in other calls to identify a specific list of stations for the provided city code





Parameter Name	Value	Description
Enlarge	o or blank = Show standard size map URL(s) 1 = Show large image URL(s)	when o is entered standard is returned 363x272 images in the XML response. When 1 is entered enlarged is returned 640x480 images
MapId	Integer	The ID of the map to retrieve.
МарТуре	1 = Doppler Radar 2 = Infrared Satellite 3 = Satellite/Radar 4 = Visible Satellite 5 = Current Temperatures 6 = High Temps Today 7 = High Temps Tomorrow 8 = Wind Chill/Heat Index 9 = Wind Speed/Direction 10 = Topography	The type of map to retrieve.  Not all map types are available in all zip codes, such as Puerto Rico.
Navigation	An XML Node containing an ID attribute as well as two sub-nodes.	Contains information about the current category ID and has sub-nodes to indicate the next and previous categories.
Postal Code	5-digit number	A series of letters and/or digits appended to a postal address for the purpose of sorting mail.
RequestType	see individual request sections	Indicates the type of request.
ZipCode	A valid 5-digit zip code or 9- digit zip code	The zip code for the area that you wish to have data returned for. We now support 9-digit zipcodes For example, 20171, 20171-1234 both of these formats will be accepted if passed in
Zoom (Only for US)	1 = Local (closest view) 2 = Metro 3 = Regional 4 = National 8 = Hawaii 10 = Alaska 12 = Puerto Rico/Virgin Islands	The zoom level for the map to retrieve. If you desire a map of Hawaii, Alaska, Puerto Rico or the Virgin Islands, be sure to specify the corresponding Zoom level. Not all map types are





Parameter Name	Value	Description
		available in all zoom levels.

## Output Parameters:

Parameter Name	Value	Description
Animate	o or blank = Show only the current map URL 1 = Show a list of URLs for animation loops	Provides the animation image list, rather than a single image XML in the response.
East, Northeast, North, Northwest, West, Southwest, South, Southeast	Integer	Contains a status attribute that indicates "on" or "off", if a map exists in the direction indicated. If there is one (status = "on"), the ID for that map will be in the value area of the node.
Height	String	Height of radar image or associated image for news story
Id	A short, typically five- character string	The unique identifier for a requested data element (e.g., station identifier)
Image-type	String	Level of detail for map image. For example, map is at the regional level.
Image-src	A URL string	The URL for a single map. This can also be a sub-node of an aws:image-list node. Attributes include: width and height.
Local	Integer	The MapId of the local map that represents the same zip code as the requested map.
Map(s)	An XML node, with sub nodes: aws:id and either a single aws:image-src, or an <aws:image-list></aws:image-list>	The desired map. Attributes are: target-zip, size, type and image-type (zoom). These attributes should be fairly self-explanatory.





Parameter Name	Value	Description
MapId	Integer	The ID of the map to retrieve.
Map-navigation	An XML node with multiple sub-nodes including: aws:id and all of the remaining nodes in this table.	An XML node containing information on how to pan and zoom from the current map.
Map target-zip	Number	Zip Code for which map is associated with.
Metro	Integer	The MapId of the metro map that represents the same zip code as the requested map.
National	An integer	The MapId of the national map that represents the same zip code as the requested map.
Regional	Integer	Indicates the type of request.
Size	1 = Thumbnail 2 or blank = Standard 3 = Enlarged	Indicates the percent of sky cover at this point.
Type	String	Contains all of the information for the ultraviolet index for the given zip code.
Width	String	A listing of the 3 hottest, 3 coldest, 3 windiest and 3 rainiest weather stations in the United States so far today.
Zoom-out, Zoom-in	Integer	

## Request:





#### Example:

https://thepulseapi.earthnetworks.com/getRadarsandMaps?RequestType=5&access\_token=edDIKDUZIJw 6UlvU1Xi1OJTUuwN8&ZipCode=20878&MapID=233&MapType=MapType&Zoom=Zoom&Animate=0&Navigation=1&Enlarge=0

Response (Example for US):

The XML returned for Non-animated Radar and Maps requests will look similar to this (this one includes the optional navigational elements):

```
<?xml version="1.0" encoding="utf-16"?>
<aws:weather xmlns:aws="http://www.aws.com/aws">
<aws:map target-zip="20878" size="standard" type="visible" image-type="regional">
<aws:id>233</aws:id>
<aws:img-src height="272" width="363">
http://radarimg.weatherbug.com/images/AWSRadars/regional visible/NE/radaro.6o.jpg?rnd=2-
020120050020
</aws:img-src>
</aws:map>
<aws:map-navigation target-zip="20878" image-type="regional">
<aws:id>233</aws:id>
<aws:local>180</aws:local>
<aws:metro>93</aws:metro>
<aws:regional>233</aws:regional>
<aws:national>239</aws:national>
<aws:east status="off">-1</aws:east>
<aws:north status="off">-1</aws:north>
<aws:northeast status="off">-1</aws:northeast>
<aws:northwest status="off">-1</aws:northwest>
<aws:south status="on">234</aws:south>
<aws:southeast status="off">-1</aws:southeast>
<aws:southwest status="on">236</aws:southwest>
<aws:west status="on">235</aws:west>
<aws:animate status="on">233</aws:animate>
<aws:enlarge status="on">269</aws:enlarge>
<aws:zoom-out status="on">239</aws:zoom-out>
<aws:zoom-in status="on">56</aws:zoom-in>
</aws:map-navigation>
</aws:weather>
```





## **Air Quality Forecast (AQI)**

## Description:

The AQI feed provides Air Quality Index and discussion data for a lat/long

#### Parameters:

Access Token: must use the current access token on this request

Location type = Latitude / Longitude

Verbose: a tool that determines whether or not to return the long names or

abbreviations of variables

## Request:

 $\frac{\text{https://thepulseapi.earthnetworks.com/getAirQuality/data/aqi/v1/daily?locationtype=latitudelongitude\&location=32.43322994224201,-}{}$ 

81.89664639673845&access token=<access token>&verbose=true&cultureInfo=en-us

## Response:

```
{
"CurrentDay": [
{
"ReportType": "Forecast",
"dateString": "2013-08-14",
"timeOfDayLocalString": null,
"AirQualityIndexes": [
{
"ParticulateType": "Ozone",
"Index": 36,
"ShortDescription": "Good"
}
],
```

"Discussion": "A frontal boundary has moved through much of the state on this Wednesday afternoon. Skies are mostly cloudy and temperatures are cooler than this time yesterday in the wake of this front, but GREEN ground level ozone concentrations remain unchanged for the most part. The aforementioned front is expected to become stationary along the northern Gulf Coast on Thursday. Atmospheric computer models are generating a weak area of low pressure over southern Alabama on the tail end of this front. Flow around this low pressure system will likely lift warm and moist air in the mid-levels north of the front across the Southeast US. This should lead to another cool and cloudy day by August standards on Thursday. As a result, CODE GREEN concentrations will continue statewide.",





```
"DiscussionIsDuplicate": false
},
"ReportType": "Observed",
"dateString": "2013-08-14",
"timeOfDayLocalString": "15:00",
"AirQualityIndexes": [
{
"ParticulateType": "Small Particulate Matter",
"Index": 55,
"ShortDescription": "Moderate"
},
"ParticulateType": "Ozone",
"Index": 35,
"ShortDescription": "Good"
],
"Discussion": null,
"DiscussionIsDuplicate": false
}
"Forecast": {}
```

# **Ultraviolet Index (UV)**

Description:

The UV feed provides UV Index data for a lat/long

Parameters:

**locationtype:** "latitudelongitude" **location:** a valid latitude/longitude

verbose: a tool that determines whether or not to return the long names or abbreviations of variables.

## Request:

 $https://thepulseapi.earthnetworks.com/getUltraviolet/data/uv/v1?locationtype=latitudelongitude&location=43,-116&access\_token=<access\_token>&verbose=true$ 

```
Response: {
UvPeriods: [
```





```
DateUtcString: "2013-07-26T00:00:00Z", UvIndex: 9 } ] ]
```

## **Station List**

## Description:

The stations call provides access to the entire station list. Adds optional display flag to allow manual setting to determine whether or not to use the station data

#### Parameters:

Current access token needs to be entered

#### Request:

https://thepulseapi.earthnetworks.com/data/locations/v2/stationlist?access token=<access token>

#### Response:

```
{"Stations":[{"StationId":"14439","ProviderId":10,"ProviderName":"NMS -
SYNOP", "StationName": "SVEG
A", "Latitude": 62.03333333, "Longitude": 14.4, "ElevationAboveSeaLevelMeters": null,
"DisplayFlag":null}, {"StationId":"CWIL", "ProviderId":4, "ProviderName":"NMS -
METAR", "StationName": "HAT ISLAND", "Latitude": 68.31666667, "Longitude":-
100.0666667, "ElevationAboveSeaLevelMeters": null, "DisplayFlag": null}, { "StationId
":"KF24", "ProviderId":4, "ProviderName": "NMS -
METAR", "StationName": "MINDEN", "Latitude": 32.65, "Longitude":-
93.3, "ElevationAboveSeaLevelMeters": null, "DisplayFlag": null}, { "StationId": "KBKF
","ProviderId":4,"ProviderName":"NMS - METAR","StationName":"BUCKLEY
ANGB/DEN", "Latitude": 39.71666667, "Longitude": -
104.75, "ElevationAboveSeaLevelMeters": null, "DisplayFlag": null}, { "StationId": "ZH
CC", "ProviderId":4, "ProviderName": "NMS -
METAR", "StationName": "ZHENGZHOU", "Latitude": 34.716666667, "Longitude": 113.65, "Ele
vationAboveSeaLevelMeters":null, "DisplayFlag":null}, { "StationId": "PRTRN", "Provi
derId":3, "ProviderName": "Earth Networks Inc", "StationName": "Sugar Mill
ES", "Latitude": 29.1461111111111, "Longitude": -
81.000833333333, "ElevationAboveSeaLevelMeters":null, "DisplayFlag":null},
```

Plus many more stations...





## **Sunrise and Sunset Times**

### Description:

Sunrise and Sunset provides accurate sunrise and sunset times based on latitude and longitude. Default behavior when optional parameters NumDays, ShowSunrise and ShowSunset are omitted is to display both sunrise and sunset data for seven days beginning with the current day.

#### Parameters:

location: location to use for querying data from the system. The location is tied to the location type id which is used by the API to determine what the location string actually represents. The current system will support latitude/longitude queries

locationtype: the type of the location used in the query. The following is the mapping: latitudelongitude = latitude and longitude; location=latitude,longitude

## **Optional Parameters:**

days: number of days you want data for. The default is 1 meaning only the current day. The number of days includes the current day and any subsequent days in local time (max:10).

verbose: determines if the feed should return parameters names as full text or abbreviations.

Default = false

cultureinfo: determines in which language to return results

en-us: English fr-fr: French es-es: Spanish

#### Limitations:

Days must be < = 10

## Request:

 $\frac{\text{https://thepulseapi.earthnetworks.com/getAlmanacData/data/almanac/v1?locationtype=latitudelongit$ 

### Response:

```
{
"solar": [
{
"sunriseDateTimeLocalS": "2013-06-20T05:42:14",
"sunsetDateTimeLocalStr": "2013-06-20T20:36:47"
},
{
```





```
"sunriseDateTimeLocalS": "2013-06-21T05:42:25",
"sunsetDateTimeLocalStr": "2013-06-21T20:37:00"
}
],
"lunar": [
{
"phaseIdentifier": -86, "phaseName": "Waxing Gibbous",
"phaseIconCode": 12
},
{
"phaseIdentifier": -92,
"phaseName": "Waxing Gibbous",
"phaseIconCode": 13
}
]
}
```

# **Get Link Request (deep link to WeatherBug.com)**

## Description:

The Get Link request provides the user with properly formatted URL(s) for linking to the weather.weatherbug.com website for display of full data.

Recommended Cache Duration - 24 hours RequestType "GetLink" or 23

### Parameters:

RequestType – required
PartnerId - required
ZipCode – conditionally required
LinkName –required
Zcode = Z6286 (auto-populated)
PostalCode – conditionally required

## **Output Parameters:**

Links, link name, zip code, URL



	WeatherBug Website Section to Return	
Keyword	SEO URL for	Notes
		Return all links within
Home	Home	"home"
home_local	Local Weather	
home_detailed	Detailed Conditions	
Forecast	Forecast	Return all links within "forecast"
forecast_sevenday	7-Day Forecast	
forecast_detail	Detailed Forecast	
forecast weekend	Weekend Forecast	
forecast hourly	Hourly Forecast	US ONLY
forecast_maps	Forecast Maps	US, CANADA, and UK Only
Maps	Radar & Maps	Return all links within "Radar & Maps"
maps_doppler	Doppler Radar	US ONLY
maps lightning	Lightning	US ONLY
maps_infrared	Infrared Satellite	US or International
maps visible	Visible Satellite	US ONLY
maps satellite	Satellite/Radar	US ONLY
maps temperature	Temperature Maps	US ONLY
maps_windchill	Wind Chill Maps	US ONLY
maps windspeed	Wind Speed Maps	US ONLY
Severeweather	Severe Weather	Return all links within "severe weather"
severeweather localalerts	Local Weather Alerts	US ONLY
severweather nationalalerts	National Weather Alerts	US ONLY
sever weather_nationalaierts	National Weather Alerts	Return Hurricane
Hurricanes	Hurricanes	Command Center link
hurricanes commandcenter	Command Center	Command Center link
hurricanes facts	Facts	
hurricanes safety	Safety	
hurricanes_sarety	Names	
hurricanes_images hurricanes tracker	Images Tracker	
Harricanes_Clackel	HUCKEI	US return all links within "Weather Cameras"International return link to Featured
Cameras	Weather Cameras	Cameras



	WeatherBug Website Section to Return	
Keyword	SEO URL for	Notes
cameras_map	Camera Map	US ONLY
cameras_local	Local Cameras	US ONLY
cameras_featured	Featured Cameras	US ONLY
cameras_beach	Beach Cameras	US ONLY
cameras_city	City Cameras	US ONLY
cameras_mountain	Mountain Cameras	US ONLY
cameras_parks	National Parks	US ONLY
cameras_seasonal	Seasonal Cameras	US ONLY
cameras_stadium	Stadium Cameras	US ONLY
Traffic	Traffic Cameras	Return all links available for location within "Traffic Cameras"  If no local traffic
traffic local	Local Cameras	camera for location return link for "Other Cities"
traffic cities	Other Cities	
Community	Community	Return all links within "Community"
commuity_main	Main	
community_photos	Photo Gallery	
community_youcast	youCaster Gallery	
community_video	Video Gallery	
community_blog	Blog	
community_neighbors	Neighbors	
community_mycommunity	My Community	
Video	Video	Return all links within "Video"
video_features	Weather Features	
video_local	Live Local Weather	
News	News & Features	If a specificy StoryID is passed in return link to specific story. If no StoryID passed; return all links within "News"
news_topstories	Top Stories	Ignore StoryID for this keyword



	WeatherBug Website Section to Return	
Keyword	SEO URL for	Notes
		Ignore StoryID for this
news_archives	News Archives	keyword
		Return all links within
Travel	Travel	"Travel"
travel_forecast	Travel Forecast	
travel_planner	Trip Planner	
		US return all links
	Health & Fitness - Link directly to	within "Health &
Health	content/details	Fitness"
health_pollen	Pollen Count – US ONLY	US ONLY
health_airquality	Air Quality – US ONLY	US ONLY
health_uvindex	UV Index – US ONLY	US ONLY

### Request:

https://thepulseapi.earthnetworks.com/getLinkRequest?RequestType=23&access\_token=<access\_token>&ZipCode=<zipcode>&PostalCode=<postalcode>&LinkName=<Name1,Name2>&Zcode=Z6286

## Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<aws:weather xmlns:aws="http://www.aws.com/aws">
<aws:Links>
<aws:Link linkname="forecast_sevenday" zipcode="20876"
url="http://weather.weatherbug.com/MD/Germantown-weather/local-forecast/7-day-
forecast.html?zcode=Z1234" />
<aws:Link linkname="forecast_detail" zipcode="20876"
url="http://weather.weatherbug.com/MD/Germantown-weather/local-forecast/detailed-
forecast.html?zcode= Z1234" />
<aws:Link linkname="forecast_weekend" zipcode="20876"
url="http://weather.weatherbug.com/MD/Germantown-weather/local-forecast/weekend-
forecast.html?zcode= Z1234" /> <aws:Link linkname="forecast_hourly" zipcode="20876"
url="http://weather.weatherbug.com/MD/Germantown-weather/local-forecast/hourly-
forecast.html?zcode= Z1234" />
<aws:Link linkname="forecast_maps" zipcode="20876"
url="http://weather.weatherbug.com/MD/Germantown-weather/local-forecast/forecast-
maps.html?zcode= Z1234" />
</aws:Links>
</aws:weather>
```



## **Sky Conditions Icons**

### Description:

This call returns a complete set of icons listed in order of icon code (for either lunar or forecast, by request)

#### Parameters:

iconSet: choice of whether to view lunar icons or forecast icons

lunar: returns lunar icons forecast: returns forecast icons

pixel size: forecast returns 52x40, lunar returns 160x160

## Request #1:

https://thepulseapi.earthnetworks.com/getSkyConditionIcons/resources/v1/icons?iconSet=forecast&access\_token>

```
Response #1:
Width: 52,
Height: 40,
Icons: [
Url:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/forecast
/50x42/cond000.png?AWSAccessKeyId=AKIAIGAWJIEJU4VSJEPA&Expires=1371687087
&Signature=MzL5LxJJuqTIXxiKEjGj9bwIBCw%3D",
IconCode: 000
},
{
Url:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/forecast
/50x42/cond001.png?AWSAccessKeyId=AKIAIGAWJIEJU4VSJEPA&Expires=1371687087
&Signature=c5jxI7dkebN5xw9E%2FRpWhV1%2F21M%3D",
IconCode: 001
},
{
Url:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/forecast
/50x42/cond002.png?AWSAccessKeyId=AKIAIGAWJIEJU4VSJEPA&Expires=1371687087
&Signature=y2QgpBQIBO141wDMu1IF9et3GM4%3D",
IconCode: 002 },
],
ZipUrl:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/forecast
/50x42 zi
p/forecast 50x42.zip?AWSAccessKeyId=AKIAIGAWJIEJU4VSJEPA&Expires=13716870
87&Signat ure=vFCfshjgLXU8hTizLLtTeA1tWEU%3D",
```



```
LastUpdatedDateTimeUtc: "2013-05-22T10:11:30.0000000Z"
}
```

## Request #2:

https://thepulseapi.earthnetworks.com/getSkyConditionIcons/resources/v1/icons?iconSet=lunar&access\_token=<access\_token>

```
Response #2:
{
Width: 160,
Height: 160,
Icons: [
{
Url:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/lunar/16
ase01.png?AWSAccessKeyId=AKIAIGAWJIEJU4VSJEPA&Expires=1371688660&Signatur
e=AFTRcOJ 7kYHM9I5tOWOo7IzN7%2BI%3D",
IconCode: 01
},
{
Url:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/lunar/16
ase02.png?AWSAccessKeyId=AKIAIGAWJIEJU4VSJEPA&Expires=1371688660&Signatur
e=2kxRVQ% 2BatKxzK%2BRFuUcQAsQ0%2F%2B0%3D",
IconCode: 02
},
{
Url:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/lunar/16
0x160/mphase03.png?AWSAccessKeyId=AKIAIGAWJIEJU4VSJEPA&Expires=1371688660
&Signature=NHex1VVS7Kj5EgBci%2F4D5iZC6Zk%3D",
IconCode: 03
},
],
ZipUrl:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/lunar/16
0x160 zip/lunar.zip?AWSAccessKeyId=AKIAIGAWJIEJU4VSJEPA&Expires=137168865
9&Signature=75katCPKtIinj%2FyYWK33SLiy014%3D",
LastUpdatedDateTimeUtc: "2013-05-22T10:12:48.0000000Z"
```



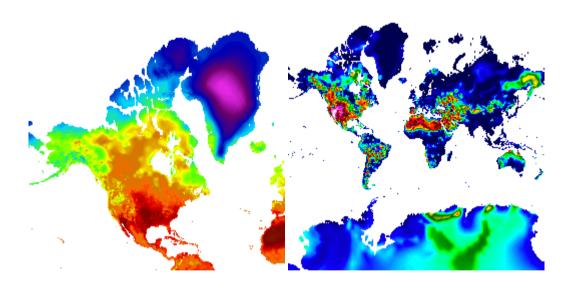


## **Bing or Google Map Layers**

## Bing Geo API

The Pulse API provides a limited RESTful interface to access tiled weather images formatted for Bing maps. This is limited to US Radar, IR Satellite, Temperature, Humidity, Pressure, Forecast High and Low Layers.

Layers are designated by changing the URL layer type which can be "Temperature", "USRadar", "IRSatellite", "Humidity", "Pressure", "ForecastHigh", or "ForecastLow". https://thepulseapi.earthnetworks.com/Data/GEO/Bing/<layer designation>



## Request

https://thepulseapi.earthnetworks.com/Data/GEO/Bing/USRadar/GetTile\_v2.aspx?as=0&c=0 &fq=0&qk=0&mw=1&ds=0&stl=0&access\_token>





#### Parameters:

as	Uint	Animation slot index. A value of 0 represents the most recent data. Valid
		only for layers that support animation.
qk	String	Quadrant key (as defined by Bing.)
С	Uint	When set to 1, a cookie with the image timestamp will be returned as part
		of the HTTP response header. The case sensitive name of the cookie is
		'LastDataUpdateTime' and the value has a time format of
		yyyy:MM:dd_HH:mm:ss. The time is always in UTC.
fq	Uint	Set to 0 to return an 8 bit PNG image (this is preferred.) When set to 1 the
		call will return the image as a 32 bit PNG. Used for clients that don't
		support client side transparency with 8bit PNG images.
mw	Uint	Set to 0 to return unmasked data. Set to 1 to hide the data over major
		bodies of water.
ds	Uint	Set to 0 to return an interpolated image. Set to 1 to turn off that
		interpolation and return a noninterpolated image.
stl	Uint	Set to 0 to disable temperature lines. Set to 1 to enable temperature lines.
	-	

## Google Geo API

The GEO API provides a limited RESTful interface to access tiled weather images formatted for Google maps. The GEO API is limited to US Radar, IR Satellite, Temperature, Humidity, Pressure, Forecast High and Low Layers.

Layers are designated by changing the URL layer type which can be "Temperature", "USRadar", "IRSatellite", "Humidity", "Pressure", "ForecastHigh", or "ForecastLow". https://thepulseapi.earthnetworks.com/Data/GEO/Google/<layer designation>

#### **Limitations**

None.

### Example 1

A valid request and response by Google tiles.

## Request



## Parameters

as	Uint	Animation slot index. A value of 0 represents the most recent data. Valid only
		for layers that support animation.
tx	Uint	Tile X Coordinate (as defined by Google.)
ty	Uint	Tile Y Coordinate (as defined by Google.)
zm	Uint	Zoom Level (as defined by Google.)
С	Uint	When set to 1, a cookie with the image timestamp will be returned as part of the HTTP response header. The case sensitive name of the cookie is 'LastDataUpdateTime' and the value has a time format of yyyy:MM:dd_HH:mm:ss. The time is always in UTC.
fq	Uint	Set to 0 to return an 8 bit PNG image (this is preferred.) When set to 1 the call will return the image as a 32 bit PNG. Used for clients that don't support client side transparency with 8bit PNG images.
mw	Uint	Set to 0 to return unmasked data. Set to 1 to hide the data over major bodies of water.
ds	Uint	Set to 0 to return an interpolated image. Set to 1 to turn off that interpolation and return a noninterpolated image.
stl	Uint	Set to 0 to disable temperature lines. Set to 1 to enable temperature lines.

See Google Example below





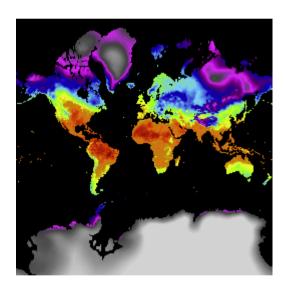
## **Google Example**

The following example demonstrates how to find the appropriate Google Tile call to overlay on your Google Map.

See this example URL. Tx=0 and ty=0 zm=0

https://thepulseapi.earthnetworks.com/Data/GEO/Google/USRadar/GetTile\_v2.aspx?as=0&c =0&fq=0&tx=0&ty=0&zm=0&mw=1&ds=0&stl=0&access\_token>

Below is the image you will see when making the above call.





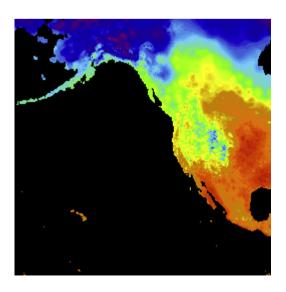


This still will need to be overlaid on the following Google Tile:



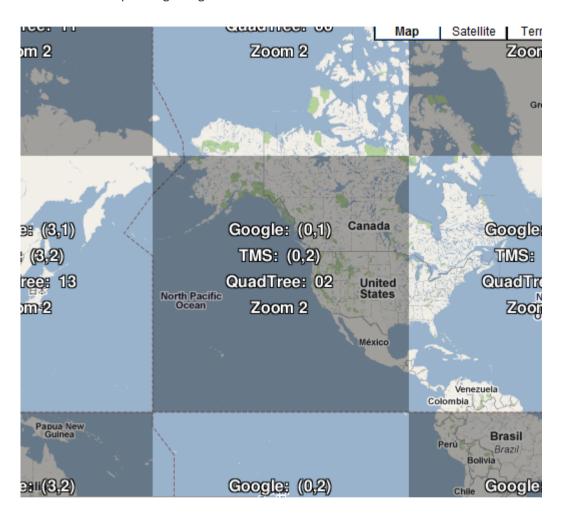
As another example:

For Google Tx=1, Ty=1 and Zoom level =2 you get:





This is the corresponding Google Tile:



May more examples of how Google and Bing (Quadtree) tiles map to WeatherBug GEO calls can be found here:

http://www.maptiler.org/google-maps-coordinates-tile-bounds-projection/