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 a JSON response via HTTP. The data will vary according to the parameters passed, such as ZIP code.

The JSON response will 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 response that is returned.





Subscription Key

Description:

All Pulse API calls require a subscription key appended to each call.

Example: (Search Weather Station):

https://earthnetworks.azure-

api.net/getStationList/data/locations/v3/stationlist?latitude=39.1833&longitude=-

77.2667&verbose=true&&subscription-key=<Your subscription key>

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.

Parameters:

Subscription Key: must use your Pulse API subscription key

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:

Subscription Key: must use your Pulse API subscription key

Example 1:

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

Request:

https://earthnetworks.azure-

api.net/getStationList/data/locations/v3/stationlist?latitude=39.1833&longitude=-

77.2667&verbose=true&subscription-key=<Your subscription key>

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": -77.3838888888889,
        "ElevationAboveSeaLevel": null,
        "DisplayFlag": null
}
```

Location Search

Description:

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

Parameters:

Subscription Key: must use your Pulse API subscription key Search String: can this be zip or city name or city code

Request:

https://earthnetworks.azure-api.net/getLocations/data/locations/v2/location?cultureInfo=en-us&searchString=86503&verbose=true&maxresults=20&subscription-key=<Your subscription key>

Response:

```
·
·
{
```





```
"CitvId": "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 v3

Description:

]

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

v3 Parameters for Latitude/Longitude:





Parameter Name	Required (R) or Optional (O)	Description	Input options	Default
location	R	Latitude and Longitude Coordinates	Longitude Latitude/Longitude in	
units	0	Metric or English units	"metric" or "english"	"metric"
cultureinfo	0	Language	"en-en" (English), "es-es" (Spanish)	"en-en"
verbose	0	Abbreviations (false) or long variable names (true)	"false" or "true"	"false"
subscription- key	R	Your Pulse API subscription key	Must match your Pulse API subscription key	N/A

v3 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 Weather Station API for station	N/A
stationid	R	Identifier for station	Must be valid ID from Search Weather Station API for station	NA
units	0	Metric or English units	"metric" or "english"	"metric"
cultureinfo	0	Language	"en-en" (English), "es- es" (Spanish)	"en-en"
verbose	0	Abbreviations (false) or long variable names (true)	"false" or "true"	"false"





subscription-	R	Your Pulse API	Must match your	N/A
key		subscription key	Pulse API subscription	
			key	

v3 Latitude/Longitude Request:

https://earthnetworks.azure-

api.net/data/observations/v3/current?location=<location>&locationtype=latitudelongitude&units=<unit s>&cultureinfo=<cultureinfo>&verbose=<verbose>&subscription-key=<Your subscription key>

v3 Latitude/Longitude Example (using real coordinates):

https://earthnetworks.azure-api.net/data/observations/v3/current?location=39.1,-77.1&locationtype=latitudelongitude&units=english&cultureinfo=en-en&verbose=true&subscription-key

v3 StationId Request:

https://earthnetworks.azure-

api.net/data/observations/v3/current?providerid=<providerid>&stationid=<stationid>&units=<units>&cultureinfo=<cultureinfo>&verbose=<verbose>&subscription-key=<Your subscription key>

v3 StationId Example (using real stationid):

https://earthnetworks.azure-

<u>api.net/data/observations/v3/current?providerid=3&stationid=CNTQC&units=metric&cultureinfo=enen&verbose=true&subscription-key=<Your subscription key></u>

```
v3 Response:
 "observation": {
  "key": "3 STCAM",
  "stationId": "STCAM",
  "providerId": 3,
  "observationTimeLocalStr": "2014-07-18T11:33:43",
  "observationTimeUtcStr": "2014-07-18T15:33:43",
  "iconCode": 1,
  "altimeter": null,
  "altimeterRate": null,
  "dewPoint": 53.6,
  "dewPointRate": null,
  "heatIndex": 78.4,
  "humidity": 42.3,
  "humidityRate": -5.0,
  "pressureSeaLevel": 30.25,
```



```
"pressureSeaLevelRate": 0.0,
"rainDaily": 0.0,
"rainRate": 0.0,
"rainMonthly": 2.53,
"rainYearly": 16.65,
"snowDaily": null,
"snowRate": null,
"snowMonthly": null,
"snowYearly": null,
"temperature": 78.4,
"temperatureRate": 2.7,
"visibility": null,
"visibilityRate": null,
"windChill": 78.4,
"windSpeed": 1.8,
"windDirection": 322,
"windSpeedAvg": 2.6,
"windDirectionAvg": 32,
"windGustHourly": 6.4,
"windGustTimeLocalHourlyStr": "2014-07-18T11:04:00",
"windGustTimeUtcHourlyStr": "2014-07-18T15:04:00",
"windGustDirectionHourly": 62,
"windGustDaily": 6.8,
"windGustTimeLocalDailyStr": "2014-07-18T09:56:00",
"windGustTimeUtcDailyStr": "2014-07-18T13:56:00",
"windGustDirectionDaily": 62,
"observationTimeAdjustedLocalStr": "2014-07-18T11:34:13",
"wetBulbTemperature": 63.2,
"RuleDetails": [],
"FinalDistance": 1.893967158296517,
"FromHourlyForecastLocationId": null,
"feelsLike": 78.4
},
"highlow": {
"humidityHigh": 96.6,
"humidityHighLocalStr": "2014-07-18T02:07:00",
"humidityHighUtcStr": "2014-07-18T06:07:00",
"humidityLow": 39.2,
"humidityLowLocalStr": "2014-07-18T11:24:00",
"humidityLowUtcStr": "2014-07-18T15:24:00",
"pressureSeaLevelHigh": 30.26,
"pressureSeaLevelHighLocalStr": "2014-07-18T09:02:00",
"pressureSeaLevelHighUtcStr": "2014-07-18T13:02:00",
"pressureSeaLevelLow": 30.15,
"pressureSeaLevelLowLocalStr": "2014-07-18T00:01:00",
```





```
"pressureSeaLevelLowUtcStr": "2014-07-18T04:01:00",
  "rainRateMax": 0.0,
  "rainRateMaxLocalStr": "2014-07-18T00:00:00",
  "rainRateMaxUtcStr": "2014-07-18T04:00:00",
  "temperatureHigh": 79.9,
  "temperatureHighLocalStr": "2014-07-18T11:29:00",
  "temperatureHighUtcStr": "2014-07-18T15:29:00",
  "temperatureLow": 58.7,
  "temperatureLowLocalStr": "2014-07-18T06:21:00",
  "temperatureLowUtcStr": "2014-07-18T10:21:00"
 },
 "station": {
  "StationId": "STCAM",
  "ProviderId": 3,
  "ProviderName": "Earth Networks Inc",
  "StationName": "St. Camillus School",
  "Latitude": 39.010555555556,
  "Longitude": -76.982777777778,
  "ElevationAboveSeaLevel": 64.9224
 }
}
```

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 3.0

Variable Field (short/long)	Variable Name	Units (Metric/English)	Format	Min Value	Max Value	Precision
k/key	Key	-	(always null)	-	-	-





si/stationId			4 or 5	N/A	N/A	4 or 5
	Station ID	Text	Characters			Character
						S
pi/providerId			1 or 2	N/A	N/A	Whole
	Provider ID	Whole Number	Digits			Number
otls/observationTimeLoc			уууу-ММ-	1969-12-	Presen	1 second
alStr	Observation	Text/Local Time Zone	ddThh:mm:	31T19:00:	t Time	
	Time, Local	of Station	SS	00		
otus/observationTimeUt			уууу-ММ-	1970-11-	Presen	1 second
cStr	Observation	Text/Universal Time	ddThh:mm:	01T00:00:	t Time	
	Time, UTC	Zone	SS	00		
Ic/iconCode			###	000	282	Whole
	Icon Code	Whole Number				Number
a/altimeter			####	N/A	N/A	1
						millibar/0.
	Altimeter	(Millibars/inches of				01 inches
	7 Henricect	Mercury)				of
						Mercury
ar/altimeterRate			##/-##	N/A	N/A	1
						millibar/0.
	Altimeter Rate	(Millibars/inches of				01 inches
		Mercury) per hour				of
						Mercury
dp/dewPoint		Degrees	##.#/-##.#	-100	100	per hour 0.1
ap, acm ome	Dew Point	(Celsius/Fahrenheit)	,	100	100	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	160	0.1
	TICAL IIIACA	(Celsius/Fahrenheit)				degrees
h/humidity	Humidity	Percent relative	###.#	0	100	0.1
	·	humidity				percent
hr/humidityRate	Humidity Rate	Change per hour of	##.#/-##.#	-100	100	0.1





		percent relative				percent per hour
psl/pressureSeaLevel	Sea Level Pressure	humidity (Millibars/inches of Mercury)	##.## or ####.#	N/A	N/A	1 millibar/0. 01 inches of Mercury
pslr/pressureSeaLevelRat e	Sea Level Pressure Rate	(Millibars/inches of Mercury) per hour	##.##/- ##.##	N/A	N/A	1 millibar/0. 01 inches of Mercury per hour
rd/rainDaily	Daily Rain	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
rr/rainRate	Rain Rate	(Millimeters/Inches) per hour	###.#	0	N/A	0.1 millimeters / 0.01 inches per hour
rm/rainMonthly	Monthly Rain	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
ry/rainYearly	Yearly Rain	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
sd/snowDaily	Daily Snow	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
sr/snowRate	Snow Rate	(Millimeters/Inches) per hour	###.#	0	N/A	0.1 millimeters / 0.01 inches per hour
sm/snowMonthly	Monthly Snow	(Millimeters/Inches)	###.#	0	N/A	0.1





						millimeters
						/ 0.01
						inches
sy/snowYearly			###.#	0	N/A	0.1
	V 1.0	(2.4:11:				millimeters
	Yearly Snow	(Millimeters/Inches)				/ 0.01
						inches
t/temperature		Degrees	##.#/-##.#	-100	100	0.1
	Temperature	(Celsius/Fahrenheit)				degrees
tr/temperatureRate		5 /01: /	##.#/-##.#	0	N/A	0.1
	Temperature	Degrees (Celsius/				degrees
	Rate	Fahrenheit) per hour				per hour
v/visibility			##.#	0	N/A	0.1
	Visibility	Kilometers/Miles				kilometers
	Visionity	Kilometers/ Wiles				/ 0.1 miles
vr/visibilityRate			##.#	0	N/A	0.1
vr/visibilityRate		Kilomotors/Milos nor	##.#	U	N/A	v.1 kilometers
	Visibility Rate	Kilometers/Miles per hour				/ 0.1 miles
		Hour				-
ws/windChill		Dograac	## #/ ## #	-100	100	per hour 0.1
wc/windChill	Wind Chill	Degrees	##.#/-##.#	-100	100	
us /windCnood		(Celsius/Fahrenheit)	44 4	0	NI/A	degrees 0.1
ws/windSpeed		Kilomotors/Milos nor	##.#	U	N/A	
	Wind Speed	Kilometers/Miles per				kilometers
		hour				/ 0.1 miles
ud/windDirection		Dograde from north	444	0	250	per hour
wd/windDirection	Wind Direction	Degrees from north (clockwise)	###	0	359	1 degree
wsa/windSpeedAverage		(clockwise)	##.#	0	N/A	0.1
way will aspeca, werage	Average Wind	Kilometers/Miles per			.,,,	kilometers
	Speed	hour				/ 0.1 miles
	opeca.					per hour
wda/windDirectionAvera	Average Wind	Degrees from north	###	0	359	1 degree
ge	Direction	(clockwise)				0
wgh/windGustHourly		(======================================	##.#	0	N/A	0.1
<i>j</i> , 1213,	Hourly Wind	Kilometers/Miles per	-			kilometers
	*	1				
						-
wgtlhs/	Hourly Wind	Text/Local Time Zone	уууу-ММ-	1969-12-	Presen	
windGustTimeLocalHourl	*	of Station	ddThh:mm:	31T19:00:		
wgtlhs/ windGustTimeLocalHourl	Gust Hourly Wind Gust Time, Local	hour Text/Local Time Zone of Station	yyyy-MM- ddThh:mm:			/ 0.1 miles per hour 1 second





yStr			SS	00		
wgtuhs/ windGustTimeUtcHourly Str	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/ windGustDirectionHourly	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/ windGustTimeLocalDaily Str	Daily Wind Gust Time, Local	Text/Local Time Zone of Station	yyyy-MM- ddThh:mm: ss	1969-12- 31T19:00: 00		1 second
wgtuds/ windGustTimeUtcDailySt r	Daily Wind Gust Time, UTC String	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00	Presen t Time	1 second
wgdd/ windGustDirectionDaily	Daily Wind Gust Direction	Degrees from north (clockwise)	###	0	359	1 degree
wbt/wetBulbTemperatur e	Wet Bulb Temperature	Degrees (Celsius/Fahrenheit)	##.#/-##.#	80	140	0.1 degrees
fl/feelsLike	Feels Like (Heat Index/Wind Chill)	Degrees (Celsius/Fahrenheit)	##.#/-##.#	-100	160	0.1 degrees
humidityHigh	Humidity Daily High	Percent %	##.#	0	100	0.1 percent
humidityHighLocalStr	Humidity Daily High, Local	Text/Local Time Zone of Station	yyyy-MM- ddThh:mm: ss	1969-12- 31T19:00: 00		1 second
humidityHighUtcStr	Humidity Daily High, UTC String	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00		1 second
humidityLow	Humidity Daily Low	Percent %	##.#	0	100	0.1 percent
humidityLowLocalStr	Humidity Daily Low, Local Time String	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00	Presen t Time	1 second





humidityLowUtcStr			уууу-ММ-	1970-11-	Drocon	1 second
HumartyLowotcsti	Humidity Daily	Text/Universal Time	ddThh:mm:	01T00:00:		1 Second
	•	•			tillle	
	Low, UTC String	Zone	SS	00		
pressureSeaLevelHigh	Mean Sea Level	Millibars/Inches of	##.## or	28.00	32.00	.01
pressuresealeveniign	Pressure (MSLP)	Mercury	####.#	20.00	32.00	.01
pressureSeaLevelHighL	Tressure (IVISEI)	ivicically	уууу-ММ-	1970-11-	Droson	1 second
ocalStr	Daily High MSLP,	Text/Universal Time	ddThh:mm:	01T00:00:		1 3600110
o caisti		•			tillle	
	Local Time String	Zone	SS	00		
pressureSeaLevelHighU			уууу-ММ-	1970-11-	Presen	1 second
tcStr	Daily High MSLP,	Text/Universal Time	ddThh:mm:	01T00:00:	t Time	
	UTC String	Zone	SS	00		
pressureSeaLevelLow	Mean Sea Level	Millibars/Inches of	##.## or	28.00	32.00	.01
	Pressure (MSLP)	Mercury	####.#			
pressureSeaLevelLowLo			уууу-ММ-	1970-11-	Presen	1 second
calStr	Daily Low MSLP,	Text/Universal Time	ddThh:mm:	01T00:00:	t Time	
	Local Time String	Zone	SS	00		
pressureSeaLevelLowUt			уууу-ММ-	1970-11-	Presen	1 second
cStr	Daily Low MSLP,	Text/Universal Time	ddThh:mm:	01T00:00:	t Time	
	UTC String	Zone	SS	00		
rainRateMax	Daily Max Rain	milimeters or inches	##.##	00.00	20.00	.01
	Rate	per hour				
rainRateMaxLocalStr	Doily May Dain		уууу-ММ-	1970-11-	Presen	1 second
	Daily Max Rain	Text/Universal Time	ddThh:mm:	01T00:00:	t Time	
	Rate, Local Time	Zone	SS	00		
	String					
rainRateMaxUtcStr			уууу-ММ-	1970-11-	Presen	1 second
	Daily Max Rain	Text/Universal Time	ddThh:mm:	01T00:00:	t Time	
	Rate, UTC String	Zone	SS	00		
temperatureHigh	Daily High		###.#	-80	140	.1
	Temperature	Degrees F or C				
temperatureHighLocalS	Daily High	T- 1/11-1 171	уууу-ММ-	1970-11-	Presen	1 second
tr	Temperature,	Text/Universal Time	ddThh:mm:	01T00:00:	t Time	
	Local Time String	Zone	SS	00		
					<u> </u>	





					_	
temperatureHighUtcStr	Daily High Temperature, UTC String	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00		1 second
temperatureLow	Daily Low Temperature	Degrees F or C	###.#	-80	140	.1
temperatureLowLocalSt r	Daily Low Temperature, Local Time String	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00		1 second
temperatureLowUtcStr	Humidity Low, UTC String	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00		1 second
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
ProviderName	Provider Name	Text	N/A	N/A	N/A	N/A
StationName	Station Name	Text	N/A	N/A	N/A	N/A
Latitude	Latitude	Decimal	##.##### ##	N/A	N/A	N/A
Longitude	Longitude	Decimal	##.#####	N/A	N/A	N/A
ElevationAboveSeaLevel	Elevation Above Sea Level	Decimal	##.####	N/A	N/A	N/A

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	Е
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

		Day
		or
Icon 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
038	Chance of Rain Showers	Day
039	Chance of Snow Showers	Day
040	Snow Showers	Day
041	Rain Showers	Day
042	Chance of Rain Showers	Night
043	Chance of Snow Showers	Night
044	Snow Showers	Night
045	Rain Showers	Night
046	Freezing Rain	Day
047	Freezing Rain	Night
048	Chance of Freezing Rain	Day
049	Chance of Freezing 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
061	Chance of Freezing 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
084	30% Chance of Flurries	Day
085	40% Chance of Flurries	Day
086	50% Chance of 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
093	30% Chance of Storms	Day
094	40% Chance of Storms	Day
095	50% Chance of Storms	Day
096	30% Chance of Flurries	Night
097	40% Chance of Flurries	Night
098	50% Chance of 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
105	30% Chance of Storms	Night





106	40% Chance of Storms	Night
107	50% Chance of Storms	Night
	30% Chance Rain	Ü
108	Showers	Day
	40% Chance Rain	,
109	Showers	Day
	50% Chance Rain	,
110	Showers	Day
	30% Chance Snow	,
111	Showers	Day
	40% Chance Snow	
112	Showers	Day
	50% Chance Snow	
113	Showers	Day
	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
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
133	40% Chance of Drizzle	Day
134	50% Chance of 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	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
	Chance of Freezing	
157	Drizzle	Day
158	Windy	Night
159	Foggy	Night
160	Light Snow	Night
161	Frozen Mix	Night
162	Drizzle	Night
163	Heavy Rain	Night
164	Chance of Frozen Mix	Night
165	Chance of Drizzle	Night
166	Chance of Frozen Drizzle	Night
167	30% Chance of Drizzle	Night
	30% Chance Frozen	
168	Drizzle	Night
168 169 170	Drizzle 30% Chance Frozen Mix 40% Chance of Drizzle	Night Night Night





		1
	40% Chance Frozen	
171	Drizzle	Night
172	40% Chance Frozen Mix	Night
173	50% Chance of Drizzle	Night
174	50% Chance Frozen Drizzle	Night
175	50% Chance Frozen Mix	Night
176	Chance of Light Snow	Night
177	30% Chance Light Snow	Night
178	40% Chance Light Snow	Night
179	50% Chance Light 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
191	60% Chance of Flurries	Day
192	70% Chance of Flurries	Day
193	80% Chance of Flurries	Day
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	Day
199	80% Chance of Sleet	Day
200	60% Chance of Storms	Day
201	70% Chance of Storms	Day
202	80% Chance of Storms	Day
203	60% Chance of Flurries	Night
204	70% Chance of Flurries	Night
205	80% Chance of 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
L	1	





212	60% Chance of Storms	Night
213	70% Chance of Storms	Night
214	80% Chance of Storms	Night
	60% Chance Rain	
215	Showers	Day
	70% Chance Rain	
216	Showers	Day
	80% Chance Rain	
217	Showers	Day
	60% Chance Snow	
218	Showers	Day
	70% Chance Snow	
219	Showers	Day
	80% Chance Snow	
220	Showers	Day
	60% Chance Rain	
221	Showers	Night
	70% Chance Rain	
222	Showers	Night
	80% Chance Rain	
223	Showers	Night
	60% Chance Snow	
224	Showers	Night
	70% Chance Snow	
225	Showers	Night
	80% Chance Snow	
226	Showers	Night
	60% Chance Freezing	
227	Rain	Day
	70% Chance Freezing	
228	Rain	Day
	80% Chance Freezing	
229	Rain	Day
200	60% Chance Freezing	
230	Rain	Night
2.5	70% Chance Freezing	
231	Rain	Night
	80% Chance Freezing	
232	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
	60% Chance Freezing	
242	Drizzle	Day
	70% Chance Freezing	
243	Drizzle	Day
	80% Chance Freezing	
244	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
	30 % Chance of Heavy	
269	Snow	Night
	40% Chance of Heavy	
	Snow	Night
270	SHOW	INIGIIL
270	50% Chance of Heavy	IVIGIT
270 271		Night
	50% Chance of Heavy	
	50% Chance of Heavy Snow	
271	50% Chance of Heavy Snow 60% Chance of Heavy	Night





	Snow	
275	Heavy Snow	Day
276	Chance of Heavy Snow	Day
	30% Chance of Heavy	
277	Snow	Day
	40% Chance of Heavy	
278	Snow	Day
	50% Chance of Heavy	
279	Snow	Day
	60% Chance of Heavy	
280	Snow	Day
	70% Chance of Heavy	
281	Snow	Day
	80% Chance of Heavy	
282	Snow	Day

Real Time Weather Observations v1

Description:

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

v1 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"	"en-en"





			(French)	
verbose	0	Abbreviations (false)	"false" or "true"	"false"
		or long variable		
		names (true)		
subscription-	R	Your Pulse API	Must match your Pulse	N/A
key		subscription key	API subscription key	

v1 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 Weather Station API for station	N/A
stationid	R	Identifier for station	Must be valid ID from Search Weather Station API for station	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"
subscription- key	R	Your Pulse API subscription key	Must match your Pulse API subscription key	N/A

v1 Latitude/Longitude Request:

https://earthnetworks.azure-

api.net/data/observations/v1/current?location=<location>&locationtype=latitudelongitude&units=<unit s>&cultureinfo=<cultureinfo>&verbose=<verbose>&subscription-key=<Your subscription key>

v1 Latitude/Longitude Example (using real coordinates):

https://earthnetworks.azure-api.net/data/observations/v1/current?location=39.1,-77.1&locationtype=latitudelongitude&units=english&cultureinfo=en-en&verbose=true&subscriptionkey

v1 StationId Request:





https://earthnetworks.azure-

api.net/data/observations/v1/current?providerid=<providerid>&stationid=<stationid>&units=<units>&cultureinfo=<cultureinfo>&verbose=<verbose>&subscription-key=<Your subscription key>

v1 StationId Example (using real stationid):

https://earthnetworks.azure-

api.net/data/observations/v1/current?providerid=3&stationid=CNTQC&units=metric&cultureinfo=enen&verbose=true&subscription-key=<Your subscription key>

```
v1 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 s
pi/providerId	Provider ID	Whole Number	1 or 2 Digits	N/A	N/A	Whole Number
otls/observationTimeL ocalStr	Observation Time, Local	Text/Local Time Zone of Station	yyyy-MM- ddThh:mm: ss	1969-12- 31T19:00: 00		1 second
otus/observationTime UtcStr	Observation Time, UTC	Text/Universal Time Zone	yyyy-MM- ddThh:mm: ss	1970-11- 01T00:00: 00		1 second
Ic/iconCode	Icon Code	Whole Number	###	000	282	Whole Number





a/altimeter	Altimeter	(Millibars/inches of Mercury)	####	N/A	N/A	1 millibar/0. 01 inches of Mercury
ar/altimeterRate	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 (Celsius/Fahrenheit)	##.#/-##.#	-100	100	0.1 degrees
dpr/dewPointRate	Dew Point Rate	Degrees (Celsius/Fahrenheit) per hour	##.#/-##.#	N/A	N/A	0.1 degrees per hour
hi/heatIndex	Heat Index	Degrees (Celsius/Fahrenheit)	##.#/-##.#	-100	100	0.1 degrees
h/humidity	Humidity	Percent relative humidity	###.#	0	100	0.1 percent
hr/humidityRate	Humidity Rate	Change per hour of percent relative humidity	##.#/-##.#	-100	100	0.1 percent per hour
psl/pressureSeaLevel	Sea Level Pressure	(Millibars/inches of Mercury)	##.## or ####.#	N/A	N/A	1 millibar/0. 01 inches of Mercury
pslr/pressureSeaLevelR ate	Sea Level Pressure Rate	(Millibars/inches of Mercury) per hour	##.##/- ##.##	N/A	N/A	1 millibar/0. 01 inches of Mercury per hour
rd/rainDaily	Daily Rain	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches





rr/rainRate	Rain Rate	(Millimeters/Inches) per hour	###.#	0	N/A	0.1 millimeters / 0.01 inches per hour
rm/rainMonthly	Monthly Rain	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
ry/rainYearly	Yearly Rain	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
sd/snowDaily	Daily Snow	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
sr/snowRate	Snow Rate	(Millimeters/Inches) per hour	###.#	0	N/A	0.1 millimeters /0.01 inches per hour
sm/snowMonthly	Monthly Snow	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
sy/snowYearly	Yearly Snow	(Millimeters/Inches)	###.#	0	N/A	0.1 millimeters / 0.01 inches
t/temperature	Temperature	Degrees (Celsius/Fahrenheit)	##.#/-##.#	-100	100	0.1 degrees
tr/temperatureRate	Temperature Rate	Degrees (Celsius/ Fahrenheit) per hour	##.#/-##.#	0	N/A	0.1 degrees per hour
v/visibility	Visibility	Kilometers/Miles	##.#	0	N/A	0.1 kilometers / 0.1 miles
vr/visibilityRate	Visibility Rate	Kilometers/Miles per hour	##.#	0	N/A	0.1 kilometers





						/ 0.1 miles
						per hour
wc/windChill		Degrees	##.#/-##.#	-100	100	0.1
we, winderiii	Wind Chill	(Celsius/Fahrenheit)	""""	100	100	degrees
ws/windSpeed		(ccisias) ramemiere,	##.#	0	N/A	0.1
ws/ windspeed		Kilometers/Miles per	ππ.π		ואור	kilometers
	Wind Speed	hour				/ 0.1 miles
		noui				per hour
wd/windDirection		Degrees from north	###	0	359	1 degree
wa/ willabilection	Wind Direction	(clockwise)	###	0	333	1 degree
wsa/windSpeedAverag			##.#	0	N/A	0.1
е	Average Wind	Kilometers/Miles per				kilometers
	Speed	hour				/ 0.1 miles
						per hour
wda/windDirectionAve	Average Wind	Degrees from north	###	0	359	1 degree
rage	Direction	(clockwise)				
wgh/windGustHourly			##.#	0	N/A	0.1
	Hourly Wind Cust	Kilometers/Miles per				kilometers
	Hourly Wind Gust	hour				/ 0.1 miles
						per hour
wgtlhs/	Hourly Wind Cust	Tout /Local Time 7one	уууу-ММ-	1969-12-	Presen	1 second
windGustTimeLocalHo	Hourly Wind Gust	Text/Local Time Zone of Station	ddThh:mm:	31T19:00:	t Time	
urlyStr	Time, Local	OI Station	SS	00		
wgtuhs/	Hourly Wind Gust	Text/Universal Time	уууу-ММ-	1970-11-	Presen	1 second
windGustTimeUtcHourl	Time, UTC	Zone	ddThh:mm:	01T00:00:	t Time	
yStr	Tille, OTC	Zone	SS	00		
wgdh/	Hourly Wind Gust	Degrees from north	###	0	359	1 degree
windGustDirectionHour	Direction	(clockwise)				
ly wad/windCustDaily		,	##.#	0	NI/A	0.1
wgd/windGustDaily		Vilomotors/Milos nor	##.#	U	N/A	
	Daily Wind Gust	Kilometers/Miles per				kilometers
		hour				/ 0.1 miles
watlala /) 0 0 0 / N / N /	1060 12	Drossis	per hour
wgtlds/ windGustTimeLocalDail	Daily Wind Gust	Text/Local Time Zone	yyyy-MM-	1969-12-		1 second
yStr	Time, Local	of Station	ddThh:mm:	31T19:00:	Lime	
,			SS	00	Drossis	1
wgtuds/ windGustTimeUtcDaily	Daily Wind Gust	Text/Universal Time	yyyy-MM-		Presen	1 second
Str	Time, UTC String	Zone	ddThh:mm:	01T00:00:	Lime	
- 0.			SS	00		





wgdd/	Daily Wind Gust	Degrees from north	###	0	359	1 degree
windGustDirectionDaily	Direction	(clockwise)				
fl/feelsLike	Feels Like (Heat	Degrees	##.#/-##.#	-100	160	0.1
	Index/Wind Chill)	(Celsius/Fahrenheit)				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	Е
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

		Day
		or
Icon Code	Icon Description	Night
000	Clear	Day
001	Cloudy	Day
002	Partly Cloudy	Night
003	Partly Cloudy	Day





004Partly SunnyDay005RainDay006ThunderstormsDay007SunnyDay008SnowDay009FlurriesDay010UnknownDay011Chance of SnowDay012SnowNight013CloudyNight014RainNight015Chance of RainNight017ClearNight018ThunderstormsNight019Chance of FlurriesDay020Chance of SleetDay021Chance of StormsDay022Chance of StormsDay023HazyDay024Mostly CloudyDay025SleetDay026Mostly SunnyDay027Chance of FlurriesNight028Chance of SleetNight029Chance of StormsNight030Chance of StormsNight031ClearNight032FlurriesNight033HazyNight034Mostly CloudyDay035Mostly SunnyDay036SleetNight037UnknownNight038Chance of Rain ShowersDay040Snow ShowersDay041Rain ShowersDay042Chance of Rain ShowersNight043Chance of Rain ShowersNi			
006ThunderstormsDay007SunnyDay008SnowDay009FlurriesDay010UnknownDay011Chance of SnowNight012SnowNight013CloudyNight014RainNight015Chance of RainNight016Partly CloudyNight017ClearNight018ThunderstormsNight019Chance of FlurriesDay020Chance of SleetDay021Chance of StormsDay022Chance of StormsDay023HazyDay024Mostly CloudyDay025SleetDay026Mostly SunnyDay027Chance of FlurriesNight028Chance of SleetNight030Chance of StormsNight031ClearNight032FlurriesNight033HazyNight034Mostly CloudyDay035Mostly SunnyDay036SleetNight037UnknownNight038Chance of Rain ShowersDay040Snow ShowersDay041Rain ShowersNight043Chance of Snow ShowersNight044Snow ShowersNight045Rain ShowersNight046Freezing Rain <t< td=""><td>004</td><td>Partly Sunny</td><td>Day</td></t<>	004	Partly Sunny	Day
007SunnyDay008SnowDay009FlurriesDay010UnknownDay011Chance of SnowNight012SnowNight013CloudyNight014RainNight015Chance of RainNight016Partly CloudyNight017ClearNight018ThunderstormsNight019Chance of FlurriesDay020Chance of SleetDay021Chance of SleetDay022Chance of StormsDay023HazyDay024Mostly CloudyDay025SleetDay026Mostly SunnyDay027Chance of FlurriesNight028Chance of SnowNight030Chance of SnowNight031ClearNight032FlurriesNight033HazyNight034Mostly CloudyDay035Mostly SunnyDay036SleetNight037UnknownNight038Chance of Rain ShowersDay040Snow ShowersDay041Rain ShowersNight043Chance of Snow ShowersNight044Snow ShowersNight045Rain ShowersNight046Freezing RainDay	005	Rain	Day
008SnowDay009FlurriesDay010UnknownDay011Chance of SnowDay012SnowNight013CloudyNight014RainNight015Chance of RainNight016Partly CloudyNight017ClearNight018ThunderstormsNight019Chance of FlurriesDay020Chance of SleetDay021Chance of SleetDay022Chance of StormsDay023HazyDay024Mostly CloudyDay025SleetDay026Mostly SunnyDay027Chance of FlurriesNight028Chance of SnowNight030Chance of StormsNight031ClearNight032FlurriesNight033HazyNight034Mostly CloudyDay035Mostly CloudyDay036SleetNight037UnknownNight038Chance of Rain ShowersDay040Snow ShowersDay041Rain ShowersNight043Chance of Snow ShowersNight044Snow ShowersNight045Rain ShowersNight046Freezing RainDay	006	Thunderstorms	Day
009FlurriesDay010UnknownDay011Chance of SnowDay012SnowNight013CloudyNight014RainNight015Chance of RainNight016Partly CloudyNight017ClearNight018ThunderstormsNight019Chance of FlurriesDay020Chance of SleetDay021Chance of StormsDay022Chance of StormsDay023HazyDay024Mostly CloudyDay025SleetDay026Mostly SunnyDay027Chance of FlurriesNight028Chance of SleetNight030Chance of SnowNight031ClearNight032FlurriesNight033HazyNight034Mostly CloudyDay035Mostly SunnyDay036SleetNight037UnknownNight038Chance of Rain ShowersDay040Snow ShowersDay041Rain ShowersNight043Chance of Snow ShowersNight044Snow ShowersNight045Rain ShowersNight046Freezing RainDay	007	Sunny	Day
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045 Rain Showers Night 046 Freezing Rain Day	043	Chance of Snow Showers	Night
046 Freezing Rain Day	044	Snow Showers	Night
<u> </u>	045	Rain Showers	Night
047 Freezing Rain Night	046	Freezing Rain	
	047	Freezing Rain	Night





048	Chance of Freezing Rain	Day
049	Chance of Freezing 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
084	30% Chance of Flurries	Day
085	40% Chance of Flurries	Day
086	50% Chance of 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
093	30% Chance of Storms	Day
094	40% Chance of Storms	Day
095	50% Chance of Storms	Day
096	30% Chance of Flurries	Night
097	40% Chance of Flurries	Night
098	50% Chance of 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
105	30% Chance of Storms	Night
106	40% Chance of Storms	Night
107	50% Chance of Storms	Night
	30% Chance Rain	
108	Showers	Day
	40% Chance Rain	
109	Showers	Day
	50% Chance Rain	
110	Showers	Day
	30% Chance Snow	
111	Showers	Day
	40% Chance Snow	
112	Showers	Day
	50% Chance Snow	
113	Showers	Day
	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





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121	40% Chance Freezing	Davis
121	Rain	Day
122	50% Chance Freezing	Davi
122	Rain	Day
422	30% Chance Freezing	NI:la-t
123	Rain	Night
124	40% Chance Freezing	NI:la-t
124	Rain	Night
425	50% Chance Freezing	NI:la-t
125	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
133	40% Chance of Drizzle	Day
134	50% Chance of Drizzle	Day
_	30% Chance Freezing	
135	Drizzle	Day
	40% Chance Freezing	_
136	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	Day





	Ι	1
	Drizzle	
158	Windy	Night
159	Foggy	Night
160	Light Snow	Night
161	Frozen Mix	Night
162	Drizzle	Night
163	Heavy Rain	Night
164	Chance of Frozen Mix	Night
165	Chance of Drizzle	Night
166	Chance of Frozen Drizzle	Night
167	30% Chance of Drizzle	Night
	30% Chance Frozen	
168	Drizzle	Night
169	30% Chance Frozen Mix	Night
170	40% Chance of Drizzle	Night
	40% Chance Frozen	
171	Drizzle	Night
172	40% Chance Frozen Mix	Night
173	50% Chance of Drizzle	Night
174	50% Chance Frozen Drizzle	Night
175	50% Chance Frozen Mix	Night
176	Chance of Light Snow Ni	
177	30% Chance Light Snow N	
178	40% Chance Light Snow	Night
179	50% Chance Light 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
191	60% Chance of Flurries	Day
192	70% Chance of Flurries	Day
193	80% Chance of Flurries	Day
194	60% Chance of Rain	Day
195	70% Chance of Rain	Day
196	80% Chance of Rain	Day
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197	60% Chance of Sleet	Day	
198	70% Chance of Sleet	Day	
199	80% Chance of Sleet Day		
200	60% Chance of Storms Day		
201	70% Chance of Storms	Day	
202	80% Chance of Storms	Day	
203	60% Chance of Flurries	Night	
204	70% Chance of Flurries	Night	
205	80% Chance of 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	
212	60% Chance of Storms	Night	
213	70% Chance of Storms	Night	
214	80% Chance of Storms	Night	
	60% Chance Rain		
215	Showers	Day	
	70% Chance Rain		
216	Showers	Day	
	80% Chance Rain		
217	Showers	Day	
	60% Chance Snow		
218	Showers	Day	
	70% Chance Snow		
219	Showers	Day	
	80% Chance Snow		
220	Showers	Day	
	60% Chance Rain		
221	Showers	Night	
	70% Chance Rain		
222	Showers	Night	
	80% Chance Rain		
223	Showers	Night	
25.	60% Chance Snow		
224	Showers	Night	
25-	70% Chance Snow	B 11 1 1	
225	Showers	Night	
226	80% Chance Snow	N.11	
226	Showers 5000 Change 5000 in	Night	
227	60% Chance Freezing	D =	
227	Rain	Day	





	700/ Change Francisc		
220	70% Chance Freezing	Day	
228	Rain	Day	
229	80% Chance Freezing		
229	Rain	Day	
230	60% Chance Freezing Rain	Niaht	
230	70% Chance Freezing	Night	
231	Rain	Night	
231	80% Chance Freezing	Migni	
232	Rain	Night	
233	60% Chance Light Snow	Day	
234	70% Chance Light Snow	Day	
235	_		
236	80% Chance Light Snow 60% Chance Frozen Mix	Day	
236		Day	
	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	Davis	
242	Drizzle	Day	
242	70% Chance Freezing Drizzle	Day	
243		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		
262	50% Chance of Light Rain	Day Day	
263	60% Chance of Light Rain		
203	00/0 CHARICE OF LIGHT RAIL	Day	





264		
20.	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
	30 % Chance of Heavy	
269	Snow	Night
	40% Chance of Heavy	
270	Snow	Night
	50% Chance of Heavy	
271	Snow	Night
	60% Chance of Heavy	
272	Snow	Night
273	70% Chance of Heavy Snow	Night
	80% Chance of Heavy	
274	Snow	Night
275	Heavy Snow	Day
	Chance of Heavy Snow	Day
276	Charice of Heavy Show	Day
276	30% Chance of Heavy	Day
276 277		Day
	30% Chance of Heavy	
	30% Chance of Heavy Snow	
277	30% Chance of Heavy Snow 40% Chance of Heavy	Day
277	30% Chance of Heavy Snow 40% Chance of Heavy Snow	Day
277 278	30% Chance of Heavy Snow 40% Chance of Heavy Snow 50% Chance of Heavy	Day
277 278	30% Chance of Heavy Snow 40% Chance of Heavy Snow 50% Chance of Heavy Snow 60% Chance of Heavy Snow	Day
277 278 279	30% Chance of Heavy Snow 40% Chance of Heavy Snow 50% Chance of Heavy Snow 60% Chance of Heavy	Day Day Day
277 278 279	30% Chance of Heavy Snow 40% Chance of Heavy Snow 50% Chance of Heavy Snow 60% Chance of Heavy Snow	Day Day Day
277 278 279 280	30% Chance of Heavy Snow 40% Chance of Heavy Snow 50% Chance of Heavy Snow 60% Chance of Heavy Snow 70% Chance of Heavy	Day Day Day

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://earthnetworks.azure-

api.net/data/forecasts/v1/daily?location=<location>&locationtype=<locationtype>&units=<units>&cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cultureinfo=<cu

Example for forecast data by City ID (using real EN City ID) <a href="https://earthnetworks.azure-api.net/data/forecasts/v1/daily?location=USo1Oooo7&locationtype=city&units=english&cultureinfo=en-en&verbose=true&subscription-key=<Your subscription key>

```
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
}
```

Forecast Variables: 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

Variable Field						
(abbreviation/long name)	Variable Name	Units	Format	Min Value	Max Value	Precision
	Cloud Cover Percentage	%	Whole Number	0	100	Whole Number
dp/dewPoint	Dew Point	Degrees Fahrenheit/ Celsius	Whole Number	-100	150	.1
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 Probability	%	Whole Number	0	100	Whole Number
rh/relativeHumidity	Relative Humidity	%	Whole Number	0	100	Whole Number
sd/summaryDescription	Summary Description	Text	Brief Phrase	N/A	N/A	N/A
t/temperature	Temperature (High/Low depending on Day/Night)	Degrees Fahrenheit/ Celsius	Decimal	-100	150	.1
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	Boolean	true/false	N/A	N/A	N/A





Period			

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 o- 11	north	N
12-34	north- northeast	NNE





35-56	northeast	NE
57-78	east-	ENE
	northeast	
79-101	east	E
102-123	east-	ESE
	southeast	
124-146	southeast	SE
147-168	south-	SSE
	southeast	
169-191	south	S
192-213	south-	SSW
	southwest	
214-236	southwest	SW
237-258	west-	WSW
	southwest	
259-281	west	W
282-303	west-	WNW
	northwest	
304-326	northwest	NW
327-348	north-	NNW
	northwest	

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	Нагу	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
_	Clear	Night
031	Flurries	Night
032	Hazy	Night
	Mostly Cloudy	Day
034 035	Mostly Cloudy Mostly Sunny	Day
	Sleet	Night
036	Unknown	
037	Chance of Rain Showers	Night
038	Chance of Snow Showers	Day
039		Day
040	Snow Showers Rain Showers	Day
041		Day
042	Chance of Rain Showers	Night
043	Chance of Snow Showers	Night
044	Snow Showers	Night
045	Rain Showers	Night
046	Freezing Rain	Day
047	Freezing Rain	Night
048	Chance of Freezing Rain	Day
049	Chance of Freezing Rain	Night
050	Windy	Day
051	Foggy	Day
052	Scattered Showers	Day
053	Scattered 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
061	Chance of Freezing 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
084	30% Chance of Flurries	Day
085	40% Chance of Flurries	Day
086	50% Chance of 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
093	30% Chance of Storms	Day
094	40% Chance of Storms	Day
095	50% Chance of Storms	Day
096	30% Chance of Flurries	Night
097	40% Chance of Flurries	Night
098	50% Chance of 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
105	30% Chance of Storms	Night
106	40% Chance of Storms	Night
107	50% Chance of Storms	Night
108	30% Chance Rain Showers	Day
109	40% Chance Rain Showers	Day
110	50% Chance Rain Showers	Day
111	30% Chance Snow Showers	Day
112	40% Chance Snow Showers	Day
113	50% Chance Snow Showers	Day
114	30% Chance Rain Showers	Night
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
133	40% Chance of Drizzle	Day
134	50% Chance of Drizzle	Day
135	30% Chance Freezing Drizzle	Day
136	40% Chance Freezing Drizzle	Day
137	50% Chance Freezing Drizzle	Day
138	Chance of Snow	Day
	Chance of Rain	Day
139	Chance of Flurries	
140	Chance of Rain	Day Day
141	Chance of Sleet	
142	Chance of Storms	Day Day
143	Chance of Flurries	-
144	Chance of Fluiries Chance of Sleet	Day Day
145	Chance of Snow	· · · · · · · · · · · · · · · · · · ·
146	Chance of Storms	Day
147	Chance of Rain Showers	Day
148	Chance of Snow Showers	Day
149	Chance of Rain Showers	Day
150	Chance of Snow Showers	Day
151	Chance of Freezing Rain	Day
152	Chance of Freezing Rain	Day
153	Chance of Light Snow	Day
154	Chance of Frozen Mix	Day
155 156	Chance of Priozen Mix Chance of Drizzle	Day Day
	Chance of Freezing Drizzle	-
157	Windy	Day Night
158	_ ′	Night
159	Foggy	Night Night
160 161	Light Snow Frozen Mix	
162	Drizzle	Night Night
163	Heavy Rain	
164	Chance of Frozen Mix	Night
	Chance of Drizzle	Night
165		Night
166	Chance of Frozen Drizzle 30% Chance of Drizzle	Night
167 168		Night
	30% Chance Frozen Drizzle	Night
169	30% Chance Frozen Mix	Night
170	40% Chance of Drizzle	Night
171	40% Chance Frozen Drizzle	Night
172	40% Chance Frozen Mix	Night
173	50% Chance of Drizzle	Night
174	50% Chance Frozen Drizzle	Night
175	50% Chance Frozen Mix	Night





177 30% Chance Light Snow Night 178 40% Chance Light Snow Night 179 50% Chance Light Snow Night 180 Scattered Thunderstorms Day 181 Freezing Drizzle Night 182 Scattered Showers Night 183 Scattered 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 Snow Day 189 70% Chance of Rain Night 190 80% Chance of Flurries Day 191 60% Chance of Flurries Day 192 70% Chance of Flurries Day 193 80% Chance of Flurries Day 194 60% Chance of Flurries Day 195 70% Chance of Rain Day 196 80% Chance of Flurries Day 197 60% Chance of Sleet Day 198 70% Chance of Sleet Day 199 80% Chance of Sleet Day 190 80% Chance of Sleet Day 190 80% Chance of Sleet Day 191 60% Chance of Sleet Day 192 70% Chance of Sleet Day 193 80% Chance of Sleet Day 194 60% Chance of Sleet Day 195 70% Chance of Sleet Day 196 80% Chance of Sleet Day 197 60% Chance of Sleet Day 198 70% Chance of Sleet Day 199 80% Chance of Sleet Day 200 60% Chance of Storms Day 201 70% Chance of Storms Day 202 80% Chance of Storms Day 203 60% Chance of Flurries Night 204 70% Chance of Flurries Night 206 60% Chance of Sleet Night 207 70% Chance of Sleet Night 208 80% Chance of Sleet Night 209 60% Chance of Sleet Night 201 70% Chance of Sleet Night 202 80% Chance of Slow Night 203 70% Chance of Slow Night 204 70% Chance of Slow Night 205 80% Chance of Storms Night 206 60% Chance of Storms Night 207 70% Chance of Storms Night 208 80% Chance of Storms Night 210 70% Chance of Storms Night 211 80% Chance of Storms Night 212 60% Chance of Storms Night 213 70% Chance of Storms Day 216 70% Chance Rain Showers Day 217 80% Chance Snow Showers Day 218 60% Chance Snow Showers Day 219 70% Chance Snow Showers Day 220 80% Chance Snow Showers Day 220 80% Chance Snow Showers Day	176	Chance of Light Snow	Night
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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:

Subscription Key: must use your Pulse API subscription key

Request:

https://earthnetworks.azure-

api.net/getPublishedAlerts/data/alerts/v1/alerts?locationtype=latitudelongitude&location=30.3085,-82.2741&verbose=true&cultureInfo=en-us&subscription-key=<Your subscription key>

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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/"
}
1.
```





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:

Subscription Key: must use your Pulse API subscription key

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 units

metric = all units are returned Metric units

Default 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://earthnetworks.azure-

<u>api.net/getHourly6DayForecast/data/forecasts/v1/hourly?location=39,80&locationtype=latitudelongitude&units=english&offset=0&metadata=true&verbose=true&subscription-key=<Your subscription key></u>





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:

Subscription Key: must use your Pulse API subscription key RequestType – required ZipCode – conditionally required PostalCode – conditionally required CityCode - conditionally required

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
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
МарТуре	1 = Doppler Radar 2 = Infrared Satellite 3 = Satellite/Radar	The type of map to retrieve. Not all map types are available in all zip codes, such





Parameter Name	Value	Description
	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	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 available in all zoom levels.

Output Parameters:

Parameter Name Val	alue	Description
--------------------	------	-------------





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.
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.
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.
Regional	Integer	Indicates the type of request.





Parameter Name	Value	Description
Size	1 = Thumbnail 2 or blank = Standard	Indicates the percent of sky
	3 = Enlarged	cover at this point.
Туре	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:

https://earthnetworks.azure-api.net/getRadarsandMaps?RequestType=5&subscription-key=<Your subscription

key>&ZipCode=<20878>&PostalCode=<postalcode>&CityCode=<citycode>[&MapType=<MapType>][&Zoom=<Zoom>][&Animate=<Animate>]

[&Navigation=<Navigation>][&Enlarge=<Enlarge>]

Example: <a href="https://earthnetworks.azure-api.net/getRadarsandMaps?RequestType=5&&subscription-key=<Your subscription">https://earthnetworks.azure-api.net/getRadarsandMaps?RequestType=5&&subscription-key=<Your subscription

 $\underline{key} > \& ZipCode = 20878 \& MapType = MapType \& Zoom = Zoom \& Animate = 0 \& Navigation = 1 \& Enlarge = 0 \\$

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):

```
<aws:weather xmlns:aws="http://www.aws.com/aws">
<aws:map xmlns:aws="http://www.aws.com/aws" target-
zip="20878" size="standard" type="doppler" image-type="local">
<aws:id>180</aws:id>
<aws:img-src height="272" width="363">
http://radarimg.weatherbug.com/images/AWSRadars2/bugradar_metro/7/radar0.large.
jpg?rnd=2-071720141121
</aws:img-src>
</aws:map>
<aws:map-navigation xmlns:aws="http://www.aws.com/aws" target-
zip="20878" image-type="local">
<aws:id>180</aws:id>
<aws:local>180</aws:local></ar>
```





```
<aws:metro>93</aws:metro>
<aws:regional>233</aws:regional>
<aws:national>239</aws:national>
<aws:east status="on">94</aws:east>
<aws:north status="on">56</aws:north>
<aws:northeast status="on">55</aws:northeast>
<aws:northwest status="on">57</aws:northwest>
<aws:south status="on">96</aws:south>
<aws:southeast status="on">95</aws:southeast>
<aws:southwest status="on">97</aws:southwest>
<aws:west status="on">92</aws:west>
<aws:animate status="on">180</aws:animate>
<aws:enlarge status="on">248</aws:enlarge>
<aws:zoom-out status="on">93</aws:zoom-out>
<aws:zoom-in status="off">-1</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:

Subscription Key: must use your Pulse API subscription key

Location type = Latitude / Longitude

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

abbreviations of variables

Request:

https://earthnetworks.azure-

api.net/getAirQuality/data/aqi/v1/daily?locationtype=latitudelongitude&location=32.43322994224201,-81.89664639673845&subscription-key=<Your subscription key>&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://earthnetworks.azure-

api.net/getUltraviolet/data/uv/v1?locationtype=latitudelongitude&location=43,-116&subscription-key=<Your subscription key>&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:

Your Pulse API subscription key needs to be entered

Request:

https://earthnetworks.azure-api.net/data/locations/v2/stationlist?subscription-key=<Your subscription
key>

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":"ZHCC", "ProviderId":4, "ProviderName":"NMS - METAR", "StationName":"ZHENGZHOU", "Latitude":34.71666667, "Longitude":113.65, "ElevationAboveSeaLevelMeters":null, "DisplayFlag":null}, {"StationId":"PRTRN", "ProviderId":3, "ProviderName":"Earth Networks Inc", "StationName":"Sugar MillEs", "Latitude":29.1461111111111, "Longitude":-81.0008333333333, "ElevationAboveSeaLevelMeters":null, "DisplayFlag":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:

https://earthnetworks.azure-

<u>api.net/getAlmanacData/data/almanac/v1?locationtype=latitudelongitude&location=39,-77&subscription-key=<Your subscription key>&verbose=true&days=2</u>

```
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		
		Return all links within	
Forecast	Forecast	"forecast"	
forecast_sevenday	7-Day Forecast		
forecast detail	Detailed Forecast		
forecast weekend	Weekend Forecast		
forecast hourly	Hourly Forecast	US ONLY	
	,	US, CANADA, and UK	
forecast maps	Forecast Maps	Only	
	·	Return all links within	
Maps	Radar & Maps	"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	
· -	·	Return all links within	
Severeweather	Severe Weather	"severe weather"	
severeweather localalerts	Local Weather Alerts	US ONLY	
severweather nationalalerts	National Weather Alerts	US ONLY	
		Return Hurricane	
Hurricanes	Hurricanes	Command Center link	
hurricanes commandcenter	Command Center		
hurricanes facts	Facts		
hurricanes safety	Safety		
hurricanes names	Names		
hurricanes images	Images		
hurricanes tracker	Tracker		
_		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	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://earthnetworks.azure-api.net/getLinkRequest?RequestType=23& subscription-key=<Your subscription

<u>key>&ZipCode=<zipcode>&PostalCode=<postalcode>&LinkName=<Name1,Name2>&Zcode=Z6286</u>

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://earthnetworks.azureapi.net/getSkyConditionIcons/resources/v1/icons?iconSet=forecast&subscriptionkey=<subscription key>

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=y2QgpBQIBO14lwDMu1IF9et3GM4%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://earthnetworks.azure-

api.net/getSkyConditionIcons/resources/v1/icons?iconSet=lunar&subscription-key=<Your subscription key>

```
Response #2:
Width: 160,
Height: 160,
Icons: [
Url:
"https://s3.amazonaws.com/qa.data.earthnetworks.com/ods/icons/v1/lunar/16
0x160/mph
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"
```

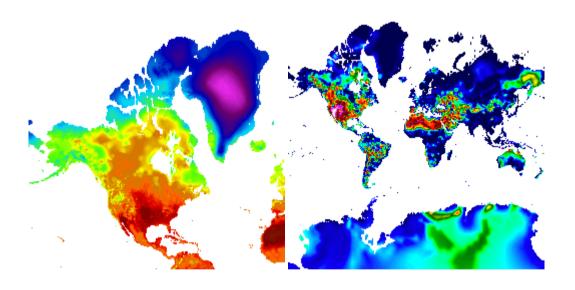


Bing or Google Map Layers

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://earthnetworks.azure-api.net /Data/GEO/Bing/<layer designation>



Request

https://earthnetworks.azureapi.net/Data/GEO/Bing/USRadar/GetTile_v2.aspx?as=0&c=0&fq=0&qk=0&mw=1&ds=0&stl= 0&subscription-key=<Your subscription key>





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://earthnetworks.azure-api.net /Data/GEO/Google/<layer designation>

Limitations

None.

Example 1

A valid request and response by Google tiles.

Request

https://earthnetworks.azure-

api.net/Data/GEO/Google/USRadar/GetTile_v2.aspx?as=0&c=0&fq=0&tx=0&ty=0&z m=0&mw=1&ds=0&stl=0&subscription-key=<Your subscription key>



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





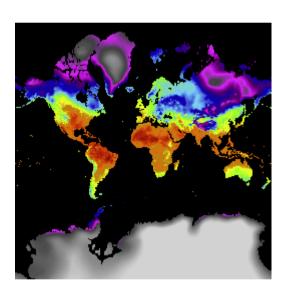
Google Example

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

subscription-key=<Your subscription key>

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







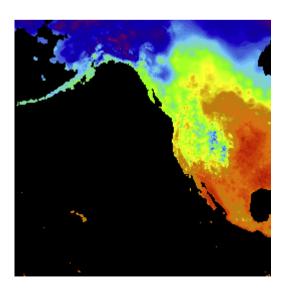
This still will need to be overlaid on the following Google Tile:



As another example:

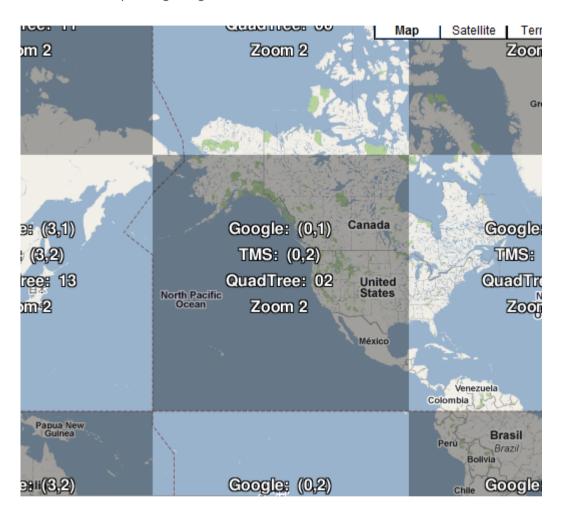
For Google Tx=1, Ty=1 and Zoom level =2 you get:

https://earthnetworks.azureapi.net/Data/GEO/Google/Temperature/GetTile v2.aspx?as=0&c=0&fq=0&tx=0&ty= 1&zm=2&mw=1&ds=0&stl=0&api_key=xxxxxxxxxxx





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/