We have some important news to share: Dark Sky has joined Apple.

You can read more on [our blog](https://blog.darksky.net/).

[Dark Sky API](https://darksky.net/dev/)

* [DOCS](https://darksky.net/dev/docs)

* [FAQ](https://darksky.net/dev/docs/faq)

* [LOG IN](https://darksky.net/dev/login)
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**Dark Sky API — Overview**

The Dark Sky API allows you to look up the weather anywhere on the globe, returning (where available):

* Current weather conditions
* Minute-by-minute forecasts out to one hour
* Hour-by-hour and day-by-day forecasts out to seven days
* Hour-by-hour and day-by-day observations going back decades
* Severe weather alerts in the US, Canada, European Union member nations, and Israel

**Weather API Call Types**

We provide two types of API requests to retrieve the weather anywhere in the world:

* The [Forecast Request](https://darksky.net/dev/docs#forecast-request) returns the current weather forecast for the next week.
* The [Time Machine Request](https://darksky.net/dev/docs#time-machine-request) returns the observed or forecast weather conditions for a date in the past or future.

**Weather Conditions**

The Dark Sky API offers a full collection of meteorological conditions in 39 different languages, including:

* Apparent (feels-like) temperature
* Atmospheric pressure
* Cloud cover
* Dew point
* Humidity
* Liquid precipitation rate
* Moon phase
* Nearest storm distance
* Nearest storm direction
* Ozone
* Precipitation type
* Snowfall
* Sun rise/set
* Temperature
* Text summaries
* UV index
* Wind gust
* Wind speed
* Wind direction

Both forecast and time machine requests return the same weather conditions, in the same convenient [JSON format](https://darksky.net/dev/docs#response-format). You can parse the response directly, or use one several community-contributed [libraries](https://darksky.net/dev/docs/libraries) to interact with our API in the programming language of your choice.

**Pricing and Attribution**

Pricing is dead-simple.

* The first 1,000 API requests you make every day are free of charge.
* Every API request over the free daily limit costs $0.0001.

You are required to display the message “[Powered by Dark Sky](https://darksky.net/poweredby/)” that links to https://darksky.net/poweredby/ somewhere prominent in your app or service.

Further details can be found in the [terms of service](https://darksky.net/dev/docs/terms#attribution).

If you have any questions, please [check the FAQ](https://darksky.net/dev/docs/faq) and, if you can’t find what you’re looking for there, [send us an email](mailto:developer@darksky.net).

**API Request Types**

**Forecast Request**

https://api.darksky.net/forecast/[key]/[latitude],[longitude]

A Forecast Request returns the current weather conditions, a minute-by-minute forecast for the next hour (where available), an hour-by-hour forecast for the next 48 hours, and a day-by-day forecast for the next week.

**Example Request**

GET https://api.darksky.net/forecast/0123456789abcdef9876543210fedcba/42.3601,-71.0589

{

"latitude": 42.3601,

"longitude": -71.0589,

"timezone": "America/New\_York",

"currently": {

"time": 1509993277,

"summary": "Drizzle",

"icon": "rain",

"nearestStormDistance": 0,

"precipIntensity": 0.0089,

"precipIntensityError": 0.0046,

"precipProbability": 0.9,

"precipType": "rain",

"temperature": 66.1,

"apparentTemperature": 66.31,

"dewPoint": 60.77,

"humidity": 0.83,

"pressure": 1010.34,

"windSpeed": 5.59,

"windGust": 12.03,

"windBearing": 246,

"cloudCover": 0.7,

"uvIndex": 1,

"visibility": 9.84,

"ozone": 267.44

},

"minutely": {

"summary": "Light rain stopping in 13 min., starting again 30 min. later.",

"icon": "rain",

"data": [{

"time": 1509993240,

"precipIntensity": 0.007,

"precipIntensityError": 0.004,

"precipProbability": 0.84,

"precipType": "rain"

},

...

]

},

"hourly": {

"summary": "Rain starting later this afternoon, continuing until this evening.",

"icon": "rain",

"data": [{

"time": 1509991200,

"summary": "Mostly Cloudy",

"icon": "partly-cloudy-day",

"precipIntensity": 0.0007,

"precipProbability": 0.1,

"precipType": "rain",

"temperature": 65.76,

"apparentTemperature": 66.01,

"dewPoint": 60.99,

"humidity": 0.85,

"pressure": 1010.57,

"windSpeed": 4.23,

"windGust": 9.52,

"windBearing": 230,

"cloudCover": 0.62,

"uvIndex": 1,

"visibility": 9.32,

"ozone": 268.95

},

...

]

},

"daily": {

"summary": "Mixed precipitation throughout the week, with temperatures falling to 39°F on Saturday.",

"icon": "rain",

"data": [{

"time": 1509944400,

"summary": "Rain starting in the afternoon, continuing until evening.",

"icon": "rain",

"sunriseTime": 1509967519,

"sunsetTime": 1510003982,

"moonPhase": 0.59,

"precipIntensity": 0.0088,

"precipIntensityMax": 0.0725,

"precipIntensityMaxTime": 1510002000,

"precipProbability": 0.73,

"precipType": "rain",

"temperatureHigh": 66.35,

"temperatureHighTime": 1509994800,

"temperatureLow": 41.28,

"temperatureLowTime": 1510056000,

"apparentTemperatureHigh": 66.53,

"apparentTemperatureHighTime": 1509994800,

"apparentTemperatureLow": 35.74,

"apparentTemperatureLowTime": 1510056000,

"dewPoint": 57.66,

"humidity": 0.86,

"pressure": 1012.93,

"windSpeed": 3.22,

"windGust": 26.32,

"windGustTime": 1510023600,

"windBearing": 270,

"cloudCover": 0.8,

"uvIndex": 2,

"uvIndexTime": 1509987600,

"visibility": 10,

"ozone": 269.45,

"temperatureMin": 52.08,

"temperatureMinTime": 1510027200,

"temperatureMax": 66.35,

"temperatureMaxTime": 1509994800,

"apparentTemperatureMin": 52.08,

"apparentTemperatureMinTime": 1510027200,

"apparentTemperatureMax": 66.53,

"apparentTemperatureMaxTime": 1509994800

},

...

]

},

"alerts": [

{

"title": "Flood Watch for Mason, WA",

"time": 1509993360,

"expires": 1510036680,

"description": "...FLOOD WATCH REMAINS IN EFFECT THROUGH LATE MONDAY NIGHT...\nTHE FLOOD WATCH CONTINUES FOR\n\* A PORTION OF NORTHWEST WASHINGTON...INCLUDING THE FOLLOWING\nCOUNTY...MASON.\n\* THROUGH LATE FRIDAY NIGHT\n\* A STRONG WARM FRONT WILL BRING HEAVY RAIN TO THE OLYMPICS\nTONIGHT THROUGH THURSDAY NIGHT. THE HEAVY RAIN WILL PUSH THE\nSKOKOMISH RIVER ABOVE FLOOD STAGE TODAY...AND MAJOR FLOODING IS\nPOSSIBLE.\n\* A FLOOD WARNING IS IN EFFECT FOR THE SKOKOMISH RIVER. THE FLOOD\nWATCH REMAINS IN EFFECT FOR MASON COUNTY FOR THE POSSIBILITY OF\nAREAL FLOODING ASSOCIATED WITH A MAJOR FLOOD.\n",

"uri": "http://alerts.weather.gov/cap/wwacapget.php?x=WA1255E4DB8494.FloodWatch.1255E4DCE35CWA.SEWFFASEW.38e78ec64613478bb70fc6ed9c87f6e6"

},

...

],

{

"flags": {

"units": "us",

...

}

}

**Request Parameters**

Required parameters slot directly into the request URL. Optional parameters should be specified as [HTTP query parameters](https://en.wikipedia.org/wiki/Query_string).

* **key** required

Your Dark Sky secret key. (Your secret key must be kept secret; in particular, do not embed it in JavaScript source code that you transmit to clients.)

* **latitude** required

The latitude of a location (in decimal degrees). Positive is north, negative is south.

* **longitude** required

The longitude of a location (in decimal degrees). Positive is east, negative is west.

* **exclude=[blocks]** optional

Exclude some number of data blocks from the API response. This is useful for reducing latency and saving cache space. The value blocks should be a comma-delimeted list (without spaces) of any of the following:

* + currently
  + minutely
  + hourly
  + daily
  + alerts
  + flags
* **extend=hourly** optional

When present, return hour-by-hour data for the next 168 hours, instead of the next 48. When using this option, we strongly recommend enabling HTTP compression.

* **lang=[language]** optional

Return summary properties in the desired language. (Note that units in the summary will be set according to the units parameter, so be sure to set both parameters appropriately.) language may be:

* + ar: Arabic
  + az: Azerbaijani
  + be: Belarusian
  + bg: Bulgarian
  + bn: Bengali
  + bs: Bosnian
  + ca: Catalan
  + cs: Czech
  + da: Danish
  + de: German
  + el: Greek
  + en: English (which is the default)
  + eo: Esperanto
  + es: Spanish
  + et: Estonian
  + fi: Finnish
  + fr: French
  + he: Hebrew
  + hi: Hindi
  + hr: Croatian
  + hu: Hungarian
  + id: Indonesian
  + is: Icelandic
  + it: Italian
  + ja: Japanese
  + ka: Georgian
  + kn: Kannada
  + ko: Korean
  + kw: Cornish
  + lv: Latvian
  + ml: Malayam
  + mr: Marathi
  + nb: Norwegian Bokmål
  + nl: Dutch
  + no: Norwegian Bokmål (alias for nb)
  + pa: Punjabi
  + pl: Polish
  + pt: Portuguese
  + ro: Romanian
  + ru: Russian
  + sk: Slovak
  + sl: Slovenian
  + sr: Serbian
  + sv: Swedish
  + ta: Tamil
  + te: Telugu
  + tet: Tetum
  + tr: Turkish
  + uk: Ukrainian
  + ur: Urdu
  + x-pig-latin: Igpay Atinlay
  + zh: simplified Chinese
  + zh-tw: traditional Chinese

If you require a language not listed here, please consider contributing to our [API translation module](https://github.com/darkskyapp/forecast-io-translations) on Github.

* **units=[units]** optional

Return weather conditions in the requested units. [units] should be one of the following:

* + auto: automatically select units based on geographic location
  + ca: same as si, except that windSpeed and windGust are in kilometers per hour
  + uk2: same as si, except that nearestStormDistance and visibility are in miles, and windSpeed and windGust in miles per hour
  + us: Imperial units (the default)
  + si: SI units

SI units are as follows:

* + summary: Any summaries containing temperature or snow accumulation units will have their values in degrees Celsius or in centimeters (respectively).
  + nearestStormDistance: Kilometers.
  + precipIntensity: Millimeters per hour.
  + precipIntensityMax: Millimeters per hour.
  + precipAccumulation: Centimeters.
  + temperature: Degrees Celsius.
  + temperatureMin: Degrees Celsius.
  + temperatureMax: Degrees Celsius.
  + apparentTemperature: Degrees Celsius.
  + dewPoint: Degrees Celsius.
  + windSpeed: Meters per second.
  + windGust: Meters per second.
  + pressure: Hectopascals.
  + visibility: Kilometers.

**Time Machine Request**

https://api.darksky.net/forecast/[key]/[latitude],[longitude],[time]

A Time Machine Request returns the observed (in the past) or forecasted (in the future) hour-by-hour weather and daily weather conditions for a particular date. A Time Machine request is identical in structure to a [Forecast Request](https://darksky.net/dev/docs#forecast-request), except:

* The currently data point will refer to the time provided, rather than the current time.
* The minutely data block will be omitted, unless you are requesting a time within an hour of the present.
* The hourly data block will contain data points starting at midnight (local time) of the day requested, and continuing until midnight (local time) of the following day.
* The daily data block will contain a single data point referring to the requested date.
* The alerts data block will be omitted.

**Example Request**

GET https://api.darksky.net/forecast/0123456789abcdef9876543210fedcba/42.3601,-71.0589,255657600?exclude=currently,flags

{

"latitude": 42.3601,

"longitude": -71.0589,

"timezone": "America/New\_York",

"hourly": {

"summary": "Snow (6–9 in.) and windy starting in the afternoon.",

"icon": "snow",

"data": [

{

"time": 255589200,

"summary": "Mostly Cloudy",

"icon": "partly-cloudy-night",

"precipIntensity": 0,

"precipProbability": 0,

"temperature": 22.8,

"apparentTemperature": 16.46,

"dewPoint": 15.51,

"humidity": 0.73,

"pressure": 1026.78,

"windSpeed": 4.83,

"windBearing": 354,

"cloudCover": 0.78,

"uvIndex": 0,

"visibility": 9.62

},

...

]

},

"daily": {

"data": [

{

"time": 255589200,

"summary": "Snow (9–14 in.) and windy starting in the afternoon.",

"icon": "snow",

"sunriseTime": 255613996,

"sunsetTime": 255650764,

"moonPhase": 0.97,

"precipIntensity": 0.0354,

"precipIntensityMax": 0.1731,

"precipIntensityMaxTime": 255657600,

"precipProbability": 1,

"precipAccumulation": 7.337,

"precipType": "snow",

"temperatureHigh": 31.84,

"temperatureHighTime": 255632400,

"temperatureLow": 28.63,

"temperatureLowTime": 255697200,

"apparentTemperatureHigh": 20.47,

"apparentTemperatureHighTime": 255625200,

"apparentTemperatureLow": 13.03,

"apparentTemperatureLowTime": 255697200,

"dewPoint": 24.72,

"humidity": 0.86,

"pressure": 1016.41,

"windSpeed": 22.93,

"windBearing": 56,

"cloudCover": 0.95,

"uvIndex": 1,

"uvIndexTime": 255621600,

"visibility": 4.83,

"temperatureMin": 22.72,

"temperatureMinTime": 255596400,

"temperatureMax": 32.04,

"temperatureMaxTime": 255672000,

"apparentTemperatureMin": 11.13,

"apparentTemperatureMinTime": 255650400,

"apparentTemperatureMax": 20.47,

"apparentTemperatureMaxTime": 255625200

}

]

},

"offset": -5

}

**Request Parameters**

Required parameters slot directly into the request URL. Optional parameters should be specified as [HTTP query parameters](https://en.wikipedia.org/wiki/Query_string).

* **key** required

Your Dark Sky secret key. (Your secret key must be kept secret; in particular, do not embed it in JavaScript source code that you transmit to clients.)

* **latitude** required

The latitude of a location (in decimal degrees). Positive is north, negative is south.

* **longitude** required

The longitude of a location (in decimal degrees). Positive is east, negative is west.

* **time** required

Either be a UNIX time (that is, seconds since midnight GMT on 1 Jan 1970) or a string formatted as follows: [YYYY]-[MM]-[DD]T[HH]:[MM]:[SS][timezone]. timezone should either be omitted (to refer to local time for the location being requested), Z (referring to GMT time), or +[HH][MM] or -[HH][MM] for an offset from GMT in hours and minutes. The timezone is only used for determining the time of the request; the response will always be relative to the local time zone.

* **exclude=[blocks]** optional

Exclude some number of data blocks from the API response. This is useful for reducing latency and saving cache space. The value blocks should be a comma-delimeted list (without spaces) of any of the following:

* + currently
  + minutely
  + hourly
  + daily
  + alerts
  + flags
* **lang=[language]** optional

Return summary properties in the desired language. (Note that units in the summary will be set according to the units parameter, so be sure to set both parameters appropriately.) language may be:

* + ar: Arabic
  + az: Azerbaijani
  + be: Belarusian
  + bg: Bulgarian
  + bn: Bengali
  + bs: Bosnian
  + ca: Catalan
  + cs: Czech
  + da: Danish
  + de: German
  + el: Greek
  + en: English (which is the default)
  + eo: Esperanto
  + es: Spanish
  + et: Estonian
  + fi: Finnish
  + fr: French
  + he: Hebrew
  + hi: Hindi
  + hr: Croatian
  + hu: Hungarian
  + id: Indonesian
  + is: Icelandic
  + it: Italian
  + ja: Japanese
  + ka: Georgian
  + kn: Kannada
  + ko: Korean
  + kw: Cornish
  + lv: Latvian
  + ml: Malayam
  + mr: Marathi
  + nb: Norwegian Bokmål
  + nl: Dutch
  + no: Norwegian Bokmål (alias for nb)
  + pa: Punjabi
  + pl: Polish
  + pt: Portuguese
  + ro: Romanian
  + ru: Russian
  + sk: Slovak
  + sl: Slovenian
  + sr: Serbian
  + sv: Swedish
  + ta: Tamil
  + te: Telugu
  + tet: Tetum
  + tr: Turkish
  + uk: Ukrainian
  + ur: Urdu
  + x-pig-latin: Igpay Atinlay
  + zh: simplified Chinese
  + zh-tw: traditional Chinese

If you require a language not listed here, please consider contributing to our [API translation module](https://github.com/darkskyapp/forecast-io-translations) on Github.

* **units=[units]** optional

Return weather conditions in the requested units. [units] should be one of the following:

* + auto: automatically select units based on geographic location
  + ca: same as si, except that windSpeed is in kilometers per hour
  + uk2: same as si, except that nearestStormDistance and visibility are in miles and windSpeed is in miles per hour
  + us: Imperial units (the default)
  + si: SI units

SI units are as follows:

* + summary: Any summaries containing temperature or snow accumulation units will have their values in degrees Celsius or in centimeters (respectively).
  + nearestStormDistance: Kilometers.
  + precipIntensity: Millimeters per hour.
  + precipIntensityMax: Millimeters per hour.
  + precipAccumulation: Centimeters.
  + temperature: Degrees Celsius.
  + temperatureMin: Degrees Celsius.
  + temperatureMax: Degrees Celsius.
  + apparentTemperature: Degrees Celsius.
  + dewPoint: Degrees Celsius.
  + windSpeed: Meters per second.
  + pressure: Hectopascals.
  + visibility: Kilometers.

**Response Format**

API responses consist of a UTF-8-encoded, JSON-formatted object with the following properties:

* **latitude** required

The requested latitude.

* **longitude** required

The requested longitude.

* **timezone** (e.g. America/New\_York) required

The IANA timezone name for the requested location. This is used for text summaries and for determining when hourly and daily data block objects begin.

* **offset** deprecated

The current timezone offset in hours. (Use of this property will almost certainly result in Daylight Saving Time bugs. Please use timezone, instead.)

* **currently** optional

A [data point](https://darksky.net/dev/docs#data-point) containing the current weather conditions at the requested location.

* **minutely** optional

A [data block](https://darksky.net/dev/docs#data-block) containing the weather conditions minute-by-minute for the next hour.

* **hourly** optional

A [data block](https://darksky.net/dev/docs#data-block) containing the weather conditions hour-by-hour for the next two days.

* **daily** optional

A [data block](https://darksky.net/dev/docs#data-block) containing the weather conditions day-by-day for the next week.

* **alerts** optional

An [alerts array](https://darksky.net/dev/docs#alerts), which, if present, contains any severe weather alerts pertinent to the requested location.

* **flags** optional

A [flags object](https://darksky.net/dev/docs#flags) containing miscellaneous metadata about the request.

**Data Point Object**

A data point object contains various properties, each representing the average (unless otherwise specified) of a particular weather phenomenon occurring during a period of time: an instant in the case of currently, a minute for minutely, an hour for hourly, and a day for daily. These properties are:

* **apparentTemperature** optional, only on hourly and currently

The apparent (or “feels like”) temperature in degrees Fahrenheit.

* **apparentTemperatureHigh** optional, only on daily

The daytime high apparent temperature.

* **apparentTemperatureHighTime** optional, only on daily

The UNIX time representing when the daytime high apparent temperature occurs.

* **apparentTemperatureLow** optional, only on daily

The overnight low apparent temperature.

* **apparentTemperatureLowTime** optional, only on daily

The UNIX time representing when the overnight low apparent temperature occurs.

* **apparentTemperatureMax** optional, only on daily

The maximum apparent temperature during a given date.

* **apparentTemperatureMaxTime** optional, only on daily

The UNIX time representing when the maximum apparent temperature during a given date occurs.

* **apparentTemperatureMin** optional, only on daily

The minimum apparent temperature during a given date.

* **apparentTemperatureMinTime** optional, only on daily

The UNIX time representing when the minimum apparent temperature during a given date occurs.

* **cloudCover** optional

The percentage of sky occluded by clouds, between 0 and 1, inclusive.

* **dewPoint** optional

The dew point in degrees Fahrenheit.

* **humidity** optional

The relative humidity, between 0 and 1, inclusive.

* **icon** optional

A machine-readable text summary of this data point, suitable for selecting an icon for display. If defined, this property will have one of the following values: clear-day, clear-night, rain, snow, sleet, wind, fog, cloudy, partly-cloudy-day, or partly-cloudy-night. (Developers should ensure that a sensible default is defined, as additional values, such as hail, thunderstorm, or tornado, may be defined in the future.)

* **moonPhase** optional, only on daily

The fractional part of the [lunation number](https://en.wikipedia.org/wiki/Lunation_Number) during the given day: a value of 0 corresponds to a new moon, 0.25 to a first quarter moon, 0.5 to a full moon, and 0.75 to a last quarter moon. (The ranges in between these represent waxing crescent, waxing gibbous, waning gibbous, and waning crescent moons, respectively.)

* **nearestStormBearing** optional, only on currently

The approximate direction of the nearest storm in degrees, with true north at 0° and progressing clockwise. (If nearestStormDistance is zero, then this value will not be defined.)

* **nearestStormDistance** optional, only on currently

The approximate distance to the nearest storm in miles. (A storm distance of 0 doesn’t necessarily refer to a storm at the requested location, but rather a storm in the vicinity of that location.)

* **ozone** optional

The columnar density of total atmospheric ozone at the given time in Dobson units.

* **precipAccumulation** optional, only on hourly,currently and daily

The amount of snowfall accumulation expected to occur (over the hour or day, respectively), in inches. (If no snowfall is expected, this property will not be defined.)

* **precipIntensity** optional

The intensity (in inches of liquid water per hour) of precipitation occurring at the given time. This value is conditional on probability (that is, assuming any precipitation occurs at all).

* **precipIntensityError** optional

The standard deviation of the distribution of precipIntensity. (We only return this property when the full distribution, and not merely the expected mean, can be estimated with accuracy.)

* **precipIntensityMax** optional, only on daily

The maximum value of precipIntensity during a given day.

* **precipIntensityMaxTime** optional, only on daily

The UNIX time of when precipIntensityMax occurs during a given day.

* **precipProbability** optional

The probability of precipitation occurring, between 0 and 1, inclusive.

* **precipType** optional

The type of precipitation occurring at the given time. If defined, this property will have one of the following values: "rain", "snow", or "sleet" (which refers to each of freezing rain, ice pellets, and “wintery mix”). (If precipIntensity is zero, then this property will not be defined. Additionally, due to the lack of data in our sources, historical precipType information is usually estimated, rather than observed.)

* **pressure** optional

The sea-level air pressure in millibars.

* **summary** optional

A human-readable text summary of this data point. (This property has millions of possible values, so don’t use it for automated purposes: use the icon property, instead!)

* **sunriseTime** optional, only on daily

The UNIX time of when the sun will rise during a given day.

* **sunsetTime** optional, only on daily

The UNIX time of when the sun will set during a given day.

* **temperature** optional, only on hourly and currently

The air temperature in degrees Fahrenheit.

* **temperatureHigh** optional, only on daily

The daytime high temperature.

* **temperatureHighTime** optional, only on daily

The UNIX time representing when the daytime high temperature occurs.

* **temperatureLow** optional, only on daily

The overnight low temperature.

* **temperatureLowTime** optional, only on daily

The UNIX time representing when the overnight low temperature occurs.

* **temperatureMax** optional, only on daily

The maximum temperature during a given date.

* **temperatureMaxTime** optional, only on daily

The UNIX time representing when the maximum temperature during a given date occurs.

* **temperatureMin** optional, only on daily

The minimum temperature during a given date.

* **temperatureMinTime** optional, only on daily

The UNIX time representing when the minimum temperature during a given date occurs.

* **time** required

The UNIX time at which this data point begins. minutely data point are always aligned to the top of the minute, hourly data point objects to the top of the hour, daily data point objects to midnight of the day, and currently data point object to the point of time provided all according to the local time zone.

* **uvIndex** optional

The UV index.

* **uvIndexTime** optional, only on daily

The UNIX time of when the maximum uvIndex occurs during a given day.

* **visibility** optional

The average visibility in miles, capped at 10 miles.

* **windBearing** optional

The direction that the wind is coming from in degrees, with true north at 0° and progressing clockwise. (If windSpeed is zero, then this value will not be defined.)

* **windGust** optional

The wind gust speed in miles per hour.

* **windGustTime** optional, only on daily

The time at which the maximum wind gust speed occurs during the day.

* **windSpeed** optional

The wind speed in miles per hour.

**Data Block Object**

A data block object represents the various weather phenomena occurring over a period of time. Such objects contain the following properties:

* **data** required

An array of [data points](https://darksky.net/dev/docs#data-point), ordered by time, which together describe the weather conditions at the requested location over time.

* **summary** optional

A human-readable summary of this data block.

* **icon** optional

A machine-readable text summary of this data block. (May take on the same values as the iconproperty of [data points](https://darksky.net/dev/docs#data-point).)

**Alerts Array**

The alerts array contains objects representing the severe weather warnings issued for the requested location by a governmental authority (please see our [data sources page](https://darksky.net/dev/docs/sources) for a list of sources). Objects in the alerts array contain the following properties:

* **description** required

A detailed description of the alert.

* **expires** required

The UNIX time at which the alert will expire.

* **regions** required

An array of strings representing the names of the regions covered by this weather alert.

* **severity** required

The severity of the weather alert. Will take one of the following values: "advisory" (an individual should be aware of potentially severe weather), "watch" (an individual should prepare for potentially severe weather), or "warning" (an individual should take immediate action to protect themselves and others from potentially severe weather).

* **time** required

The UNIX time at which the alert was issued.

* **title** required

A brief description of the alert.

* **uri** required

An HTTP(S) URI that one may refer to for detailed information about the alert.

**Flags Object**

The flags object contains various metadata information related to the request. This object may optionally contain any of the following properties:

* **darksky-unavailable** optional

The presence of this property indicates that the Dark Sky data source supports the given location, but a temporary error (such as a radar station being down for maintenance) has made the data unavailable.

* **nearest-station** required

The distance to the nearest weather station that contributed data to this response. Note, however, that many other stations may have also been used; this value is primarily for debugging purposes. This property's value is in miles (if US units are selected) or kilometers (if SI units are selected).

* **sources** required

This property contains an array of IDs for each [data source](https://darksky.net/dev/docs/sources) utilized in servicing this request.

* **units** required

Indicates the units which were used for the data in this request.

**Response Headers**

The API will set the following HTTP response headers to values useful to developers:

* **Cache-Control** optional

Set to a conservative value for data caching purposes based on the data present in the response body.

* **Expires** deprecated

Set to a conservative value for data caching purposes based on the data present in the response body.

* **X-Forecast-API-Calls** optional

The number of API requests made by the given API key for today.

* **X-Response-Time** optional

The server-side response time of the request.

**Notes**

* Never make any assumptions about the presence of data or lengths of arrays. For example, a lack of data in our data sources may cause data to be missing; or Daylight Savings Time may cause a day to consist of 23 or 25 hours (instead of the usual 24); or, at high latitudes, a given day may not have a sunrise or sunset. Always check for the presence of data before trying to use it.
* Overnight low temperatures usually occur around dawn, and so will usually occur on a different date from the daytime high temperatures. (This is the primary difference between temperatureLow and temperatureMin.)
* Summaries on the hourly data block actually only cover up to a maximum of 24 hours, rather than the full time period in the data block. We found that covering the full 48 hours could be, in a number of circumstances, far too wordy to be practical.
* Summaries and icons on daily data point objects actually cover the period from 4AM to 4AM, rather than the stated time period of midnight to midnight. We found that the summaries so generated were less awkward.
* The Forecast Data API supports HTTP compression. We heartily recommend using it, as it will make responses much smaller over the wire. To enable it, simply add an Accept-Encoding: gzip header to your request. (Most HTTP client libraries wrap this functionality for you, please consult your library’s documentation for details.)
* [Dark Sky](https://darksky.net/)
* [Inquiries](mailto:info@darksky.net)
* [Status](http://status.darksky.net/)
* [Support](mailto:developer@darksky.net)
* [Terms of Service](https://darksky.net/dev/docs/terms)
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