

SRF Meteo API

Summary

The SRF Meteo API provides weather forecasts (point forecasts) for over 100'000 locations in Switzerland.

The API offers the following resources:

- /geolocations: geo-points for which weather forecasts are available.
- /geolocationNames: names of the corresponding geo-points, partly multilingual
- /forecast: The forecast data
- /colors: Auxiliary entity for graphical representation of temperature values

All responses are returned in json format.

Geolocations can be queried by name search or by radius search to given coordinates. Forecast is always queried for an associated geolocation. A geolocation has one or more GeolocationNames.

Forecast

/forecast/{geolocationId}

Example: /forecast/46.9471,7.4441

- Forecast always includes the forecast data for the current day and the complete following 7 days.
- Forecast response contains the geolocation and the actual forecast data.
- Forecast is divided into three time intervals
 - day: forecast data for a whole day
 - hour: forecast data for a time window of 3 hours (`local\_date\_time` describes the end of the interval)
 - 60minutes: forecast data for time windows of 60 minutes

Forecast-data (abstract)

Field	Example	Description	type
local_date_time	2021-03-05T04:00:00+01:00	Date for validity of record, end of interval for forecast of type "hour" or "60minutes"	
TTT_C	7	Current temperature in °C	Only hour/60minutes
TTL_C	6.5	Error range lower limit	Only hour/60minutes
TTH_C	7.5	Error range upper limit	Only hour/60minutes
TX_C	11	Maximum temperature	Only day
TN_C	6	Lowest temperature	Only day
PROBPCP_PERCENT	42	Probability of precipitation in %	
RRR_MM	1.2	Precipitation total	
FF_KMH	16	Wind speed in km/h	
FX_KMH	31	Peak wind speed in km/h	
DD_DEG	45	Wind direction in angular degrees: 0 = North wind	
SYMBOL_CODE	10	Mapping to weather icon	
SUNSET	1816	Time sunset	Only day
SUNRISE	656	Time sunrise	Only day
SUN_H	5	Sun hours	Only day
min_color		Mapping temperature / color value	
max_color		Mapping temperature / color value	
cur_color		Mapping temperature / color value	

Furthermore, the field "forecast" contains the respective geolocation together with geolocationNames (see below).

The result set can be further limited with the "type" parameter (possible values: "60minutes", "hour", "day")

GeolocationNames

/geolocationNames/{geolocationNameId}

Example: /geolocationNames?name=Ber

Returns an array of names starting with {name} (default: 10 names). Each name contains the geolocation object and some information about the name. The geolocation id should be used to make further queries (e.g. forecast/{geolocationId})

Name fields (Abstract):

Field	Example	Description	type
id	c4ca4238a0b923820dcc509a6f75849b	Hash value	Internal use..
location_id (deprecated)	417186701	Internal field; the API should always be addressed with the geolocation identifier <lat>.<long>.	Deprecated. Use geolocation.id instead.
province	Zürich		
district	Zürich		
inhabitants			
type	city	City or POI (Point of Interest)	
geolocation	Geolocation Objekt		

Geolocation

/geolocations/{geolocationId}

Example: /geolocations/46.9471,7.4441

Returns information about the point.

/geolocations?latitude={latitude}&longitude={longitude}

Example: /geolocations?latitude=46.947&longitude=7.444

Perimeter search in a radius of 10km for geolocations. Returns an array of geolocation objects

Fields (abstract)

Field	Example	Description	type
id	47.4549,7.9973	Readable identifier: Composed of <lat>,<lon> rounded to 4 digits.	Used to access e.g. forecast/ information.
lat	47.4549	latitude	
lon	7.9973	longitude	
timezone	Europe/Zurich	Internal use	
station_id	S11737	Internal use	
default_name	Geerehof	One of the names of the point	If possible, one of the names should be displayed in the geolocationNames

Colors

/colors

To display the color values seasonally in GUIs correctly, a mapping table is available, which provides the correct background and foreground color:

This table can be cached very well, it is updated sporadically.

Field	Example	Description
temperature	15	Temperature value
background_color	#f4e50b	Hex color value
Text_color	#000000	Hex color value

The individual values in the table cannot be further filtered or restricted. The temperature values cover the range -60 to 60 °C.

SRF Weather API Icons

A zip file containing weather icons is provided in the links in the section- “What is it?”.

Below table outlines the name of png file with their respective description:

PNG File Name	Description
1	sonnig
10	ziemlich sonnig
3	teils sonnig
19	bedeckt
20	regnerisch
22	Schneeregen
21	Schneefall
4	Regenschauer
6	Schneeschauer
8	Schneeregenschauer
2	Nebelbänke
17	Nebel
20	bewölkt: etwas Regen
5	Regenregenschauer mit Gewitter
25	Regenschauer
3	Wolken: Sandsturm
-1	klar
-10	klare Abschnitte
-3	Wolken: Sandsturm
-19	bedeckt
-20	regnerisch
-22	Schneeregen
-21	Schneefall
-4	Regenschauer
-6	Schneeschauer
-8	Schneeregenschauer
-2	Nebelbänke

-17	Nebel
-20	bewölkt: etwas Regen
-5	Regenschauer mit Gewitter
-25	Regenschauer
-3	Wolken: Sandsturm