香港天文台
HONG KONG OBSERVATORY

Hong Kong Observatory
Open Data API Documentation

Version : **1.12**

Date : **Nov, 2024**

Amendment History				
Change Number	Revision Description	Pages Affected	Revision Number	Date
1	Document Released	All	1.0	Jun, 2019
2	Update API Request Parameters	14 - 16	1.1	Apr, 2020
3	Update API Request Parameters	17 - 25	1.2	Jun, 2020
4	Add Dataset	13, 25 - 28	1.2	Jun, 2020
5	Update API Response Details	5 - 20	1.3	Sep, 2020
6	Add Response Example to the Datasets which may return null response	9 - 18	1.3	Sep, 2020
7	Add API Response Parameter	5 - 6	1.4	Apr, 2021
8	Update API Response Details	23 - 25	1.5	May, 2021
9	Update Dataset	22 - 23, 34 - 35	1.6	Oct, 2021
10	Update Dataset, Update API Request Parameters	23-34	1.7	May, 2022
11	Add Dataset	38	1.8	Jan, 2023
12	Add Dataset	39	1.9	May, 2023
13	Update API Response Details	11, 15	1.10	Oct, 2023

14	Update Dataset	38	1.11	Nov, 2023
14	Update Dataset	38	1.12	Nov, 2024

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1. Weather Information API

Dataset

- 9-day Weather Forecast
- Current Weather Report
- Local Weather Forecast
- Weather Warning Information
- Weather Warning Summary
- Special Weather Tips

API URL

https://data.weather.gov.hk/weatherAPI/opendata/weather.php

Please include valid parameters in API request. For valid parameters, please refer to Request table in this section.

HTTP Request Method

GET

Return Type

JSON

Request Example

https://data.weather.gov.hk/weatherAPI/opendata/weather.php?dataType=flw&lang=en

Request

Parameter	Accepted values	Description
dataType	flw fnd rhrread warnsum warningInfo swt	flw: Local Weather Forecast fnd: 9-day Weather Forecast rhrread: Current Weather Report warnsum: Weather Warning Summary warningInfo: Weather Warning Information swt: Special Weather Tips
lang	en tc sc	en: English tc: Traditional Chinese sc: Simplified Chinese Default language: en

Response

Local Weather Forecast (flw)

Parameter	Description	Details
generalSituation	General Situation	
tcInfo	Tropical Cyclone Information	
fireDangerWarning	Fire Danger Warning Message	
forecastPeriod	Forecast Period	
forecastDesc	Forecast Description	
outlook	Outlook	
updateTime	Update Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00

9-day Weather Forecast (fnd)

Parameter	Description	Details
weatherForecast	Weather Forecast	Return a List
forecastDate	Forecast Date	YYYYMMDD
forecastWeather	Forecast Weather	
forecastMaxtemp	Forecast Maximum Temperature	
forecastMintemp	Forecast Minimum Temperature	
week	Week	
forecastWind	Forecast Wind	
forecastMaxrh	Forecast Maximum Relative Humidity	
forecastMinrh	Forecast Minimum Relative Humidity	
ForecastIcon	Forecast Weather Icon	Weather icon list: https://www.hko.gov.hk/textonly/v2/explain/wxicon_e.htm
PSR	Probability of Significant Rain	Response value: High Medium High

		Medium Medium Low Low Response value description: https://www.hko.gov.hk/en/wxinfo/currwx/fnd.htm?tablenote=true	
soilTemp	Soil Temperature	place	location
		value	value
		unit	unit
		recordTime	record time YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00
		depth	unit: unit
			value: depth value
seaTemp	Sea Surface Temperature	place	location
		value	value
		unit	unit
		recordTime	record time YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00

Current Weather Report (rhrread)

Parameter	Description	Details	
lightning[1]	Lightning	data	place: location
			occur: true
		startTime	Start Time YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00
		endTime	End Time

			YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00
rainfall	Rainfall	data	unit: unit
			place: location
			max[1]: Maximum rainfall record
			min[1]: Minimum rainfall record
			Main: Maintenance flag (TRUE/FALSE)
		startTime	Start Time YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00
		endTime	End Time YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00
icon	Icon	Return a List Weather icon list: https://www.hko.gov.hk/textonly/v2/explain/wxicon_e.htm	
iconUpdateTime	Icon Update Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00	
uvindex	UV Index	data	place: location
			value: value
			desc: description
			message[1]: message
		recordDesc	record description
updateTime	Update Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00	
warningMessage	Warning Message	Return a List. If no data for warning message, empty string will be returned.	

rainstormReminder[1]	Rainstorm Reminder		
specialWxTips[1]	Special Weather Tips	Return a List.	
tcmessage[1]	Message of tropical cyclone position	Return a List.	
mintempFrom00To09[1]	Minimum temperature from midnight to 9 am		
rainfallFrom00To12[1]	Accumulated rainfall at HKO from midnight to noon		
rainfallLastMonth[1]	Rainfall in last month		
rainfallJanuaryToLastMonth[1]	Accumulated rainfall from January to last month		
temperature	Temperature	data	place: location
			value: value
			unit: unit
		recordTime	record time YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00
humidity	Humidity	data	unit: unit
			value: value
			place: location
		recordTime	record time YYYY-MM-DD'T'hh:mm:ssZ Example:

			2020-09-01T08:19:00+08:00

1. Parameter may be missing if the value is null or not available.

Weather Warning Summary (warnsum)

Parameter	Description	Details	
{Property name}	Warning Statement Code	**WFIRE**: Fire Danger Warning **WFROST**: Frost Warning **WHOT**: Hot Weather Warning **WCOLD**: Cold Weather Warning **WMSGNL**: Strong Monsoon Signal **WRAIN**: Rainstorm Warning Signal **WFNTSA**: Special Announcement on Flooding in the northern New Territories **WL**: Landslip Warning **WTCSGNL**: Tropical Cyclone Warning Signal **WTMW**: Tsunami Warning **WTS**: Thunderstorm Warning	
name	Warning Name		
code	Warning Code	WFIRE	WFIREY
			WFIRER
		WFROST	WFROST
		WHOT	WHOT
		WCOLD	WCOLD
		WMSGNL	WMSGNL
		WRAIN	WRAINA
			WRAINR
			WRAINB
		WFNTSA	WFNTSA
		WL	WL
		WTCSGNL	TC1
			TC3

			TC8NE
			TC8SE
			TC8NW
			TC8SW
			TC9
			TC10
			CANCEL
		WTMW	WTMW
		WTS	WTS
actionCode	Action Code	ISSUE, REISSUE (WCOLD, WHOT and WFNTSA), CANCEL, EXTEND(WTS) UPDATE (WTS)	
issueTime	Issue Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00	
expireTime[1]	Expire Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00	
updateTime	Update Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00	

1. Parameter may be missing if the value is null or not available. For the response format, please refer to the following Response example.

Response example of Weather Warning Summary (warnsum):

The following response example is a sample only, it is **NOT real data**.


```
{
    "WFROST": {
        "name": "Frost Warning",
        "code": "WFROST",
        "actionCode": "ISSUE",
```

```
        "issueTime": "2020-09-24T11:15:00+08:00",
        "updateTime": "2020-09-24T11:15:00+08:00"
    },
    "WHOT": {
        "name": "Very Hot Weather Warning",
        "code": "WHOT",
        "actionCode": "ISSUE",
        "issueTime": "2020-09-24T07:00:00+08:00",
        "updateTime": "2020-09-24T07:00:00+08:00"
    },
    "WCOLD": {
        "name": "Cold Weather Warning",
        "code": "WCOLD",
        "actionCode": "ISSUE",
        "issueTime": "2020-09-24T11:15:00+08:00",
        "updateTime": "2020-09-24T11:15:00+08:00"
    },
    "WFNTSA": {
        "name": "Special Announcement on Flooding in Northern New
Territories",
        "code": "WFNTSA",
        "actionCode": "ISSUE",
        "issueTime": "2020-09-24T11:40:00+08:00",
        "updateTime": "2020-09-24T11:40:00+08:00"
    },
    "WMSGNL": {
        "name": "Strong Monsoon Signal",
        "code": "WMSGNL",
        "actionCode": "ISSUE",
        "issueTime": "2020-09-24T11:15:00+08:00",
        "updateTime": "2020-09-24T11:15:00+08:00"
    },
    "WL": {
        "name": "Landslip Warning",
        "code": "WL",
        "actionCode": "ISSUE",
        "issueTime": "2020-09-24T11:15:00+08:00",
```

```
        "updateTime": "2020-09-24T11:15:00+08:00"
    },
    "WRAIN": {
        "name": "Rainstorm Warning Signal",
        "code": "WRAINR",
        "type": "Red",
        "actionCode": "ISSUE",
        "issueTime": "2020-09-24T11:15:00+08:00",
        "updateTime": "2020-09-24T11:15:00+08:00"
    },
    "WTMW": {
        "name": "Tsunami Warning",
        "code": "WTMW",
        "actionCode": "ISSUE",
        "issueTime": "2020-09-24T11:15:00+08:00",
        "updateTime": "2020-09-24T11:15:00+08:00"
    },
    "WTS": {
        "name": "Thunderstorm Warning",
        "code": "WTS",
        "actionCode": "EXTEND",
        "issueTime": "2020-09-24T11:40:00+08:00",
        "expireTime": "2020-09-24T19:30:00+08:00",
        "updateTime": "2020-09-24T05:00:00+08:00"
    },
    "WTCSGNL": {
        "name": "Tropical Cyclone Warning Signal",
        "code": "TC3",
        "actionCode": "ISSUE",
        "type": "Strong Wind Signal No. 3",
        "issueTime": "2020-09-24T11:15:00+08:00",
        "updateTime": "2020-09-24T11:15:00+08:00"
    },
    "WFIRE": {
        "name": "Fire Danger Warning",
        "code": "WFIRER",
        "type": "Red",
```

```
            "actionCode": "ISSUE",
            "issueTime": "2020-09-24T11:15:00+08:00",
            "updateTime": "2020-09-24T11:15:00+08:00"
        }
}
```


Weather Warning Information (warningInfo)

Parameter	Description	Details
details[1]	Details	Return a List
contents[1]	Contents	Return a List
warningStatementCode	Warning Statement Code	**WFIRE**: Fire Danger Warning **WFROST**: Frost Warning **WHOT**: Hot Weather Warning **WCOLD**: Cold Weather Warning **WMSGNL**: Strong Monsoon Signal **WTCPRE8**: Pre-no.8 Special Announcement **WRAIN**: Rainstorm Warning Signal **WFNTSA**: Special Announcement on Flooding in the northern New Territories **WL**: Landslip Warning **WTCSGNL**: Tropical Cyclone Warning Signal **WTMW**: Tsunami Warning **WTS**: Thunderstorm Warning
subtype	Sub-type of the warning.	Only “fire danger warning” ”tropical cyclone warning” ”rainstorm warning” have sub types. **WFIRE**: WFIREY(Yellow Fire), WFIRER(Red Fire) **WRAIN**:

		WRAINA(Amber), WRAINR(Red), WRAINB(Black) **WTCSGNL**: TC1(No. 1), TC3(No. 3), TC8NE(No. 8 North East), TC8SE(No. 8 South East), TC8SW(No. 8 South West), TC8NW(No. 8 North West), TC9(No. 9), TC10(No. 10), CANCEL(Cancel All Signals)
updateTime	Update Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00

1. Parameter may be missing if the value is null or not available. For the response format, please refer to the following Response example.

Response example of Weather Warning Information (warningInfo):
The following response example is a sample only, it is **NOT real data**.


```
{
    "details": [{
            "contents": ["Thunderstorm Warning issued at 11:40 a.m. on 24 Sep 2020 has been extended until 7:30 p.m. today. Thunderstorms are expected to occur over Hong Kong.", "Members of the public are advised to take the following precautions when thunderstorms occur:", "1. Stay indoors. Seek shelter in buildings if you are engaging in outdoor activities.", "2. Do not stand on high grounds. Keep away from highly conductive objects, trees or masts."],
            "warningStatementCode": "WTS",
            "updateTime": "2020-09-24T05:00:00+08:00"
        }, {
            "contents": ["The Strong Monsoon Signal was issued at 11:15 a.m."],
            "warningStatementCode": "WMSGNL",
            "updateTime": "2020-09-24T11:15:00+08:00"
        }, {
```

```
            "contents": ["Landslip Warning\n\nLandslip Warning issued at 11:15
a.m."],
            "warningStatementCode": "WL",
            "updateTime": "2020-09-24T11:15:00+08:00"
        }, {
            "contents": ["The Very Hot Weather Warning has been issued by the
Hong Kong Observatory at 07:00", "The Hong Kong Observatory is forecasting
very hot weather with light winds in Hong Kong today. The risk of heatstroke is
high.", "When engaged in outdoor work or activities, drink plenty of water and
avoid over exertion. If not feeling well, take a rest in the shade or cooler place as
soon as possible.", "People staying indoors without air-conditioning should keep
windows open as far as possible to ensure that there is adequate ventilation.",
"Avoid prolonged exposure under sunlight. Loose clothing, suitable hats and UV-
blocking sunglasses can reduce the chance of sunburn by solar ultraviolet
radiation.", "Swimmers and those taking part in outdoor activities should use a
sunscreen lotion of SPF 15 or above, and should re-apply it frequently.", "Beware
of health and wellbeing of elderly or persons with chronic medical conditions. If
you know of them, call or visit them occasionally to check if they need any
assistance."],
            "warningStatementCode": "WHOT",
            "updateTime": "2020-09-24T07:00:00+08:00"
        }, {
            "contents": ["The Cold Weather Warning has been issued by the
Hong Kong Observatory at 11:15 a.m.", "Cold weather is expected in Hong Kong
in the morning and at night today and tomorrow.", "The minimum temperatures in
the urban areas overnight will be around 11 degrees or below. It will be a couple of
degrees lower in the northern part of the New Territories and on high ground.",
"People are advised to put on warm clothes and ensure adequate indoor
ventilation.", "As it is very windy in parts of the territory, wind chill effect will be
significant. The temperature felt by body will be lower than the actual air
temperature. Prolonged exposure to wintry winds may lead to hypothermia.", "If
you know of elderly persons or persons with chronic medical conditions staying
alone, please call or visit them occasionally to check if they need any assistance.",
"Owing to icing conditions in Tai Mo Shan, members of the public, motorists and
cyclists should be aware of the danger on slippery roads.", "Make sure heaters are
safe before use, and place them away from any combustibles. Do not light fires
```

indoors as a means to keep warm.", "Please ensure that there is plenty of fresh air in your room when you are using an old-type gas water heater."],
"warningStatementCode": "WCOLD",
"updateTime": "2020-09-24T11:15:00+08:00"
}, {
"contents": ["The Observatory warns farmers and others concerned that ground frost is likely to occur early tomorrow morning on high ground or in the northern part of the New Territories."],
"warningStatementCode": "WFROST",
"updateTime": "2020-09-24T11:15:00+08:00"
}, {
"contents": ["Red Rainstorm Warning Signal has been issued at 11:15 a.m."],
"subtype": "WRAINR",
"warningStatementCode": "WRAIN",
"updateTime": "2020-09-24T11:15:00+08:00"
}, {
"contents": ["Special Announcement on Flooding in the northern New Territories issued by the Hong Kong Observatory at 11:40 on 24 September.", "Heavy rain is affecting the northern part of the New Territories, especially in Pat Heung and Kam Tin area(s). More than 70 millimetres of rainfall have been recorded in the past 1 hour.", "Residents in the northern New Territories, who are likely to be affected, are advised to take necessary precautions to avoid possible flood damage. Heavy rain may bring about flash floods. People should stay away from watercourses. They should also pay attention to the flood sirens if they are nearby."],
"warningStatementCode": "WFNTSA",
"updateTime": "2020-09-24T11:40:00+08:00"
}, {
"contents": ["The Strong Wind Signal, No. 3, was issued at 11:15 a.m."],
"subtype": "TC3",
"warningStatementCode": "WTCSGNL",
"updateTime": "2020-09-24T11:15:00+08:00"
}, {
"contents": ["The Hong Kong Observatory announces that the Tropical Cyclone Warning Signal Number 8 is expected to be issued at or before

4:07 p.m. today (24 Sep 2020). Winds locally will strengthen further.", "The Government advises members of the public with long or difficult home journeys or having to return to outlying islands to begin their journeys now. The Government is now making arrangements to release its employees accordingly.", "Announcement by the Education Bureau (EDB):", "The EDB announces that classes of all day schools are suspended today. If classes of evening schools are required to be suspended, the bureau will make the announcement in due course."],
"warningStatementCode": "WTCPRE8",
"updateTime": "2020-09-24T14:10:00+08:00"
}, {
"contents": ["Tsunami Warning issued by the Hong Kong Observatory at 11:15 a.m. on 24 Sep 2020.", "A severe earthquake of magnitude 6 occurred at Mindanao, Philippines at about 11:10 a.m. on 24 Sep 2020.", "It is not certain whether a tsunami has been generated but precautions should be taken for the sake of safety.", "The predicted normal tides today are:", "High water 3.5 metres at 6:00 p.m.", "Low water 2.5 metres at 4:00 p.m.", "1. Stay away from shores, beaches and low-lying coastal areas. If you are there, move inland or to higher grounds. The upper floors of high, multi-storey, reinforced concrete building can provide safe refuge if there is no time to quickly move inland or to higher grounds.", "2. Do not engage in water sports.", "3. Vessels should stay away from the shore or shallow waters. If vessels remain moored in typhoon shelters, their moorings should be doubled and all personnel should leave the vessels and head for higher grounds.", "4. Please observe these precautions until the Observatory cancels the tsunami warning.", "5. Please stay tuned to the radio or television for further information."],
"warningStatementCode": "WTMW",
"updateTime": "2020-09-24T11:15:00+08:00"
}, {
"contents": ["The fire danger warning is Red and the fire risk is Extreme."],
"warningStatementCode": "WFIRE",
"subtype": "WFIRER",
"updateTime": "2020-09-24T11:15:00+08:00"
}
]
}

Special Weather Tips (swt)

Parameter	Description	Details
desc[1]	Tips Content	
updateTime[1]	Tips Update Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00

1. Parameter may be missing if the value is null or not available. For the response format, please refer to the following Response example.

Response example of Special Weather Tips (swt):

The following response example is a sample only, it is **NOT real data**.


```
{
    "swt": [{
            "desc": "The Hong Kong Observatory announces that the Tropical Cyclone Warning Signal Number 8 is expected to be issued at or before 4:07 p.m. today (24 Sep 2020). Winds locally will strengthen further.The Government advises members of the public with long or difficult home journeys or having to return to outlying islands to begin their journeys now. The Government is now making arrangements to release its employees accordingly.Announcement by the Education Bureau (EDB):The EDB announces that classes of all day schools are suspended today. If classes of evening schools are required to be suspended, the bureau will make the announcement in due course.",
            "updateTime": "2020-09-24T14:10:00+08:00"
        }, {
            "desc": "Announcement on Localised Heavy Rain: More than 70 millimetres of rainfall were recorded in Tuen Mun District in the past 1 hour ending at 5:00 p.m. and may cause serious flooding.",
            "updateTime": "2020-09-10T16:40:00+08:00"
        }
    ]
}
```

2. Earthquake Information API

Dataset

- Quick Earthquake Messages
- Locally Felt Earth Tremor Report

API URL

https://data.weather.gov.hk/weatherAPI/opendata/earthquake.php

Please include valid parameters in API request. For valid parameters, please refer to Request table in this section.

HTTP Request Method

GET

Return Type

JSON

Request Example

https://data.weather.gov.hk/weatherAPI/opendata/earthquake.php?dataType=qem&lang=en

Request

Parameter	Accepted values	Description
dataType	qem feltearthquake	qem: Quick Earthquake Messages feltearthquake: Locally Felt Earth Tremor Report
lang	en tc sc	en: English tc: Traditional Chinese sc: Simplified Chinese Default language: en

Response

Locally Felt Earth Tremor Report

Parameter	Accepted values	Description
updateTime	Last update time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00

mag	Richter magnitude scale	
region	Region of the earthquake	
intensity	Intensity of the earthquake	
lat	Latitude	
lon	Longitude	
details	Earthquake Details	
ptime	Date time of the earthquake	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00

Quick Earthquake Messages

Parameter	Description	Details
lat	Latitude	
lon	Longitude	
mag	Richter magnitude scale	
region	Region	
ptime	Earthquake date and time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00
updateTime	Update Time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2020-09-01T08:19:00+08:00

3. Open Data (Climate and Weather Information) API

Dataset

- Hourly heights of astronomical tides
- Times and heights of astronomical high and low tides
- Times of sunrise, sun transit and sunset
- Times of moonrise, moon transit and moonset
- Gregorian-Lunar calendar conversion table
- Cloud-to-ground and cloud-to-cloud lightning count
- Latest 10-minute mean visibility
- Daily Mean Temperature
- Daily Maximum Temperature
- Daily Minimum Temperature
- Weather and Radiation Level Report

API URL

https://data.weather.gov.hk/weatherAPI/opendata/opendata.php

Please include valid parameters in API request. For valid parameters, please refer to Request table in this section.

HTTP Request Method

GET

Return Type

JSON or CSV

Request Example

https://data.weather.gov.hk/weatherAPI/opendata/opendata.php?dataType=LTMV&lang=en&rformat=csv

Request

Hourly heights of astronomical tides

Parameter	Accepted values	Description
dataType	HHOT	HHOT: Hourly heights of astronomical tides
rformat	json csv	Return data format Default return type: CSV

station	CCH CLK CMW KCT KLW LOP MWC QUB SPW TAO TBT TMW TPK WAG	Station code: CCH: Cheung Chau CLK: Chek Lap Kok CMW: Chi Ma Wan KCT: Kwai Chung KLW: Ko Lau Wan LOP: Lok On Pai MWC: Ma Wan QUB: Quarry Bay SPW: Shek Pik TAO: Tai O TBT: Tsim Bei Tsui TMW: Tai Miu Wan TPK: Tai Po Kau WAG: Waglan Island
year	2022 - 2024	Year
month	1 - 12	Optional. Pass this parameter with parameter "year"
day	1 - 31	Optional. Pass this parameter with parameters "year", "month"
hour	1 - 24	Optional. Pass this parameter with parameters "year", "month", "day"

Times and heights of astronomical high and low tides

Parameter	Accepted values	Description
dataType	HLT	HLT: Times and heights of astronomical high and low tides
rformat	json csv	Return data format Default return type: CSV

station	CCH CLK CMW KCT KLW LOP MWC QUB SPW TAO TBT TMW TPK WAG	Station code: CCH: Cheung Chau CLK: Chek Lap Kok CMW: Chi Ma Wan KCT: Kwai Chung KLW: Ko Lau Wan LOP: Lok On Pai MWC: Ma Wan QUB: Quarry Bay SPW: Shek Pik TAO: Tai O TBT: Tsim Bei Tsui TMW: Tai Miu Wan TPK: Tai Po Kau WAG: Waglan Island
year	2022 - 2024	Year
month	1 - 12	Optional. Pass this parameter with parameter "year"
day	1 - 31	Optional. Pass this parameter with parameters "year", "month"
hour	1 - 24	Optional. Pass this parameter with parameters "year", "month", "day"

Times of moonrise, moon transit and moonset

Parameter	Accepted values	Description
dataType	MRS	MRS: Times of moonrise, moon transit and moonset
rformat	json csv	Return data format Default return type: CSV
year	2018 - 2024	Year
month	1 - 12	Optional. Pass this parameter with parameter "year"
day	1 - 31	Optional. Pass this parameter with parameters "year", "month"

Cloud-to-ground and cloud-to-cloud lightning count

Parameter	Accepted values	Description
dataType	LHL	LHL: Cloud-to-ground and cloud-to-cloud lightning count
rformat	json csv	Return data format Default return type: CSV
lang	en tc sc	en: English tc: Traditional Chinese sc: Simplified Chinese

Latest 10-minute mean visibility

Parameter	Accepted values	Description
dataType	LTMV	LTMV: Latest 10-minute mean visibility
rformat	json csv	Return data format Default return type: CSV
lang	en tc sc	en: English tc: Traditional Chinese sc: Simplified Chinese

Daily Mean Temperature

Parameter	Accepted values	Description
dataType	CLMTEMP	CLMTEMP: Daily Mean Temperature
rformat	json	Return data format
	csv	Default return type: CSV
station	CCH	CCH: Cheung Chau
	CWB	CWB: Clear Water Bay
	HKA	HKA: Hong Kong International Airport
	HKO	HKO: Hong Kong Observatory
	HKP	HKP: Hong Kong Park
	HKS	HKS: Wong Chuk Hang
	HPV	HPV: Happy Valley
	JKB	JKB: Tseung Kwan O
	KLT	KLT: Kowloon City
	KP	KP: King's Park
	KSC	KSC: Kau Sai Chau
	KTG	KTG: Kwun Tong
	LFS	LFS: Lau Fau Shan
	NGP	NGP: Ngong Ping
	PEN	PEN: Peng Chau
	PLC	PLC: Tai Mei Tuk
	SE1	SE1: Kai Tak Runway Park
	SEK	SEK: Shek Kong
	SHA	SHA: Sha Tin
	SKG	SKG: Sai Kung
	SKW	SKW: Shau Kei Wan
	SSH	SSH: Sheung Shui
	SSP	SSP: Sham Shui Po
	STY	STY: Stanley
	TC	TC: Tate's Cairn
	TKL	TKL: Ta Kwu Ling
	TMS	TMS: Tai Mo Shan
	TPO	TPO: Tai Po (Conservation Studies Centre)
	TU1	TU1: Tuen Mun Children and Juvenile Home
	TW	TW: Tsuen Wan Shing Mun Valley
	TWN	TWN: Tsuen Wan
	TY1	TY1: New Tsing Yi Station

	TYW VP1 WGL WLP WTS YCT YLP	TYW: Pak Tam Chung (Tsak Yue Wu) VP1: The Peak WGL: Waglan Island WLP: Wetland Park WTS: Wong Tai Sin YCT: Tai Po (Yuan Chau Tsai Park) YLP: Yuen Long Park
year	1884 – current year[1]	Year Range: CCH: 1992 to current year CWB: 2018 to current year HKA: 1997 to current year HKO: 1884 to current year (Exclude 1940 - 1946) HKP: 2007 to current year HKS: 1989 to current year HPV: 2008 to current year JKB: 1991 to current year KLT: 2008 to current year KP: 1992 to current year KSC: 2008 to current year KTG: 2009 to current year LFS: 1985 to current year NGP: 2003 to current year PEN: 2004 to current year PLC: 1993 to current year SE1: 2014 to current year SEK: 1996 to current year SHA: 1984 to current year SKG: 1993 to current year SKW: 2007 to current year SSH: 2004 to current year SSP: 2010 to current year STY: 2009 to current year TC: 1997 to current year TKL: 1988 to current year TMS: 1997 to current year TPO: 1999 to current year TU1: 2007 to current year

		TW: 2010 to current year TWN: 2006 to current year TY1: 2010 to current year TYW: 1995 to current year VP1: 2003 to current year WGL: 1989 to current year WLP: 2005 to current year WTS: 2009 to current year YCT: 2022 to current year YLP: 2015 to current year Default return data: All years
month	1 - 12	Optional. Pass this parameter with parameter "year"

1. Each station has different year range. Please check the description for details.

Daily Maximum Temperature

Parameter	Accepted values	Description
dataType	CLMMAXT	CLMMAXT: Daily Maximum Temperature
rformat	json csv	Return data format Default return type: CSV
station	CCH CWB HKA HKO HKP HKS HPV JKB KLT KP KSC KTG LFS NGP PEN PLC	CCH: Cheung Chau CWB: Clear Water Bay HKA: Hong Kong International Airport HKO: Hong Kong Observatory HKP: Hong Kong Park HKS: Wong Chuk Hang HPV: Happy Valley JKB: Tseung Kwan O KLT: Kowloon City KP: King's Park KSC: Kau Sai Chau KTG: Kwun Tong LFS: Lau Fau Shan NGP: Ngong Ping PEN: Peng Chau PLC: Tai Mei Tuk

	SE1	SE1: Kai Tak Runway Park
	SEK	SEK: Shek Kong
	SHA	SHA: Sha Tin
	SKG	SKG: Sai Kung
	SKW	SKW: Shau Kei Wan
	SSH	SSH: Sheung Shui
	SSP	SSP: Sham Shui Po
	STY	STY: Stanley
	TC	TC: Tate's Cairn
	TKL	TKL: Ta Kwu Ling
	TMS	TMS: Tai Mo Shan
	TPO	TPO: Tai Po (Conservation Studies Centre)
	TU1	TU1: Tuen Mun Children and Juvenile Home
	TW	TW: Tsuen Wan Shing Mun Valley
	TWN	TWN: Tsuen Wan
	TY1	TY1: New Tsing Yi Station
	TYW	TYW: Pak Tam Chung (Tsak Yue Wu)
	VP1	VP1: The Peak
	WGL	WGL: Waglan Island
	WLP	WLP: Wetland Park
	WTS	WTS: Wong Tai Sin
	YCT	YCT: Tai Po (Yuan Chau Tsai Park)
	YLP	YLP: Yuen Long Park
year	1884 – current year[1]	Year Range: CCH: 1992 to current year CWB: 2018 to current year HKA: 1997 to current year HKO: 1884 to current year (Exclude 1940 - 1946) HKP: 2007 to current year HKS: 1989 to current year HPV: 2008 to current year JKB: 1991 to current year KLT: 2008 to current year KP: 1992 to current year KSC: 2008 to current year KTG: 2009 to current year LFS: 1985 to current year

		NGP: 2003 to current year PEN: 2004 to current year PLC: 1993 to current year SE1: 2014 to current year SEK: 1996 to current year SHA: 1984 to current year SKG: 1993 to current year SKW: 2007 to current year SSH: 2004 to current year SSP: 2010 to current year STY: 2009 to current year TC: 1997 to current year TKL: 1988 to current year TMS: 1997 to current year TPO: 1999 to current year TU1: 2007 to current year TW: 2010 to current year TWN: 2006 to current year TY1: 2010 to current year TYW: 1995 to current year VP1: 2003 to current year WGL: 1989 to current year WLP: 2005 to current year WTS: 2009 to current year YCT: 2022 to current year YLP: 2015 to current year Default return data: All years
month	1 - 12	Optional. Pass this parameter with parameter "year"

1. Each station has different year range. Please check the description for details.

Daily Minimum Temperature

Parameter	Accepted values	Description
dataType	CLMMINT	CLMMINT: Daily Minimum Temperature
rformat	json csv	Return data format Default return type: CSV

station	CCH	CCH: Cheung Chau
	CWB	CWB: Clear Water Bay
	HKA	HKA: Hong Kong International Airport
	HKO	HKO: Hong Kong Observatory
	HKP	HKP: Hong Kong Park
	HKS	HKS: Wong Chuk Hang
	HPV	HPV: Happy Valley
	JKB	JKB: Tseung Kwan O
	KLT	KLT: Kowloon City
	KP	KP: King's Park
	KSC	KSC: Kau Sai Chau
	KTG	KTG: Kwun Tong
	LFS	LFS: Lau Fau Shan
	NGP	NGP: Ngong Ping
	PEN	PEN: Peng Chau
	PLC	PLC: Tai Mei Tuk
	SE1	SE1: Kai Tak Runway Park
	SEK	SEK: Shek Kong
	SHA	SHA: Sha Tin
	SKG	SKG: Sai Kung
	SKW	SKW: Shau Kei Wan
	SSH	SSH: Sheung Shui
	SSP	SSP: Sham Shui Po
	STY	STY: Stanley
	TC	TC: Tate's Cairn
	TKL	TKL: Ta Kwu Ling
	TMS	TMS: Tai Mo Shan
	TPO	TPO: Tai Po (Conservation Studies Centre)
	TU1	TU1: Tuen Mun Children and Juvenile Home
	TW	TW: Tsuen Wan Shing Mun Valley
	TWN	TWN: Tsuen Wan
	TY1	TY1: New Tsing Yi Station
	TYW	TYW: Pak Tam Chung (Tsak Yue Wu)
	VP1	VP1: The Peak
	WGL	WGL: Waglan Island
	WLP	WLP: Wetland Park
	WTS	WTS: Wong Tai Sin

	YCT YLP	YCT: Tai Po (Yuan Chau Tsai Park) YLP: Yuen Long Park
year	1884 - current year[1]	Year Range: CCH: 1992 to current year CWB: 2018 to current year HKA: 1997 to current year HKO: 1884 to current year (Exclude 1940 - 1946) HKP: 2007 to current year HKS: 1989 to current year HPV: 2008 to current year JKB: 1991 to current year KLT: 2008 to current year KP: 1992 to current year KSC: 2008 to current year KTG: 2009 to current year LFS: 1985 to current year NGP: 2003 to current year PEN: 2004 to current year PLC: 1993 to current year SE1: 2014 to current year SEK: 1996 to current year SHA: 1984 to current year SKG: 1993 to current year SKW: 2007 to current year SSH: 2004 to current year SSP: 2010 to current year STY: 2009 to current year TC: 1997 to current year TKL: 1988 to current year TMS: 1997 to current year TPO: 1999 to current year TU1: 2007 to current year TW: 2010 to current year TWN: 2006 to current year TY1: 2010 to current year TYW: 1995 to current year VP1: 2003 to current year

		WGL: 1989 to current year WLP: 2005 to current year WTS: 2009 to current year YCT: 2022 to current year YLP: 2015 to current year Default return data: All years
month	1 - 12	Optional. Pass this parameter with parameter "year"

1. Each station has different year range. Please check the description for details.

Weather and Radiation Level Report

Parameter	Accepted values	Description
dataType	RYES	RYES: Weather and Radiation Level Report
date	20190910 - yesterday[1]	Date of weather and radiation level report
lang	en tc sc	en: English tc: Traditional Chinese sc: Simplified Chinese Default language: en
station	CLK CCH HKO HPV HKP SE1 KAT KP KLT KTG LFS EPC SKG SWH STK SHA SSP	CCH: Cheung Chau CLK: Chek Lap Kok EPC: Ping Chau HKO: Hong Kong Observatory HKP: Hong Kong Park HKS: Wong Chuk Hang HPV: Happy Valley JKB: Tseung Kwan O KAT: Kat O KLT: Kowloon City KP: Kings Park KTG: Kwun Tong LFS: Lau Fau Shan PLC: Tai Mei Tuk SE1: Kai Tak Runway Park SEK: Shek Kong SHA: Sha Tin

	SKW	SKG: Sai Kung
	SEK	SKW: Shau Kei Wan
	STY	SSP: Sham Shui Po
	TKL	STK: Sha Tau Kok
	PLC	STY: Stanley
	TAP	SWH: Sai Wan Ho
	JKB	TAP: Tap Mun
	TBT	TBT: Tsim Bei Tsui
	TY1	TKL: Ta Kwu Ling
	TWN	TUN: Tuen Mun
	TW	TW: Tsuen Wan Shing Mun Valley
	TUN	TWN: Tsuen Wan Ho Koon
	HKS	TY1: Tsing Yi
	WTS	WTS: Wong Tai Sin
	YCT	YCT: Tai Po
	YLP	YLP: Yuen Long Park
	YNF	YNF: Yuen Ng Fan

1. The data will be available after 01:30 GMT+0800 in the next day.

Response

CSV

Dataset	Data Type	Description
Hourly heights of astronomical tides	HHOT	Line 1: Headers Line 2 to end: Data
Times and heights of astronomical high and low tides	HLT	
Times of sunrise, sun transit and sunset	SRS	
Times of moonrise, moon transit and moonset	MRS	
Cloud-to-ground and cloud-to-cloud lightning count	LHL	
Latest 10-minute mean visibility	LTMV	
Daily Mean Temperature	CLMTEMP	

Daily Maximum Temperature	CLMMAXT	Line 1, 2: Type Line 3: Headers Line 4 to blank line: Data After blank line: Legend
Daily Minimum Temperature	CLMMINT	

JSON

Dataset	Data Type	Description

Hourly heights of astronomical tides	HHOT	{
		"fields' : ["...", "...", ...],
		"data" : [["...", "...", ...], ["...", "...", ...], ...]
		}

Times and heights of astronomical high and low tides	HLT	
Times of sunrise, sun transit and sunset	SRS	
Times of moonrise, moon transit and moonset	MRS	
Cloud-to-ground and cloud-to-cloud lightning count	LHL	
Latest 10-minute mean visibility	LTMV	

Daily Mean Temperature	CLMTEMP	{
		"type" : ["...", "..."],
		"fields' : ["...", "...", ...],
		"data" : [["...", "...", ...], ["...", "...", ...], ...],
		"legend" : ["...", "...", ...]
		}

Daily Maximum Temperature	CLMMAXT	
Daily Minimum Temperature	CLMMINT	

Weather and Radiation Level Report	RYES	{
		type: data,
		type: data,
		...
		type: data,
		}
		
		Format of “type”:
		{Station} + {Attribute}[1]
		{OtherAttribute}

		{Station} list: CheungChau: Cheung Chau ChekLapKok: Chek Lap Kok PingChau: Ping Chau HKO: Hong Kong Observatory HongKongPark: Hong Kong Park WongChukHang: Wong Chuk Hang HappyValley: Happy Valley TseungKwanO: Tseung Kwan O KatO: Kat O KowloonCity: Kowloon City KingsPark: Kings Park KwunTong: Kwun Tong LauFauShan: Lau Fau Shan TaiMeiTuk: Tai Mei Tuk KaiTakRunwayPark: Kai Tak Runway Park ShekKong: Shek Kong ShaTin: Sha Tin SaiKung: Sai Kung ShauKeiWan: Shau Kei Wan ShamShuiPo: Sham Shui Po ShaTauKok: Sha Tau Kok Stanley: Stanley SaiWanHo: Sai Wan Ho TapMun: Tap Mun TsimBeiTsui: Tsim Bei Tsui TaKwuLing: Ta Kwu Ling TaiPo: Tai Po TuenMun: Tuen Mun TsuenWanShingMunValley: Tsuen Wan Shing Mun Valley TsuenWanHoKoon: Tsuen Wan Ho Koon TsingYi: Tsing Yi WongTaiSin: Wong Tai Sin YuenLongPark: Yuen Long Park YuenNgFan: Yuen Ng Fan

		{Attribute} list: LocationName: Station MaxTemp: Maximum air temperature (Celsius) ReadingsMaxTemp: Maximum air temperature (Celsius) ReadingsMaxRH: Maximum relative humidity (%) ReadingsAvgRainfall: Average rainfall (mm) ReadingsAccumRainfall: Total rainfall since 1st January (mm) Microsieverts: Average ambient gamma radiation dose rate (microsievert/hour) MinTemp: Minimum air temperature (Celsius) ReadingsMaxUVIndex: Maximum UV index ReadingsMinGrassTemp: Grass minimum temperature (Celsius) ReadingsMinRH: Minimum relative humidity (%) ReadingsRainfall: Rainfall (mm) ReadingsMeanUVIndex: Mean UV index ReadingsSunShine: Duration of sunshine(Hours) ReadingsMinTemp: Minimum air temperature (Celsius) {OtherAttribute} list: BulletinDate: Bulletin date (YYYYMMDD) BulletinTime: Bulletin time (HHMM) HongKongDesc: Description of average ambient gamma radiation dose rate taken outdoors in Hong Kong NoteDesc: Note NoteDesc1: Note1 NoteDesc2: Note2 NoteDesc3: Note3 ReportTimeInfoDate: Information date (YYYYMMDD)

1. Only available attributes include in response for each station. Unavailable attributes will not be included or empty string will be returned.

4. Gregorian-Lunar Calendar Conversion API

Dataset

- Gregorian-Lunar calendar conversion table

API URL

https://data.weather.gov.hk/weatherAPI/opendata/lunardate.php

Please include a valid parameter in API request. For the valid parameter, please refer to Request table in this section.

HTTP Request Method

GET

Return Type

JSON

Request Example

https://data.weather.gov.hk/weatherAPI/opendata/lunardate.php?date=2023-03-01

Request

Parameter	Accepted values	Description
date	2023-1-1 – YYYY-12-31	YYYY: Current year + 2 years Pass this parameter with parameter "date" in the format "YYYY-MM-DD"

Response

Parameter	Description	Details
LunarYear	Lunar year	Gan-Zhi and Zodiac in traditional Chinese only Example: 癸卯年，兔
LunarDate	Lunar date	In traditional Chinese only Example: 二月初十

5. Rainfall in The Past Hour from Automatic Weather Station API

Dataset

- Rainfall in the past hour from automatic weather station

General Description

This dataset provides rainfall amount measured at automatic weather station during the 1-hour period ending at the observation time. Please note the following in using this dataset:

(i) The rainfall data in this dataset is originated from automatic weather stations. In particular, the source of rainfall data of automatic weather station "Hong Kong Observatory" in this dataset is different from the official record of Hong Kong Observatory rainfall data as given in the climatological database, other weather bulletins such as Current Weather Report, Yesterday's Weather and Radiation Level, etc.

(ii) The rainfall data in this dataset is provisional. Only limited data validation has been carried out. Users should take note of this limitation in using the data.

API URL

https://data.weather.gov.hk/weatherAPI/opendata/hourlyRainfall.php

Please include a valid parameter in API request. For the valid parameter, please refer to Request table in this section.

HTTP Request Method

GET

Return Type

JSON

Request Example

https://data.weather.gov.hk/weatherAPI/opendata/hourlyRainfall.php?lang=en

Request

Parameter	Accepted values	Description

lang	tc sc en	en: English tc: Traditional Chinese sc: Simplified Chinese Default language: English

Response

Rainfall in the Past Hour from Automatic Weather Station

Parameter	Description	Details
obsTime	Observation time	YYYY-MM-DD'T'hh:mm:ssZ Example: 2022-09-01T08:00:00+08:00
hourlyRainfall	Rainfall amount in the 1-hour period	automaticWeatherStation: Name of automatic weather station
		automaticWeatherStationID: Automatic weather station ID for this dataset
		value[1]: An integer value of the total rainfall amount during the 1-hour period measured by the automatic weather station ending at the observation time.
		unit[1]: Unit of the rainfall amount

1. Parameter contents may return “M” if system under maintenance and the data is temporarily not available.

For the response format, please refer to the following Response Example.

Response Example of Rainfall in the Past Hour

The following response example is a sample only, it is **NOT real data**.


```
{
    "obsTime": "2022-09-01T08:00:00+08:00",
    "hourlyRainfall": [
        {
            "automaticWeatherStation": "Lau Fau Shan",
            "automaticWeatherStationID": "RF001",
            "value": "0",
            "unit": "mm"
        },
```

```
        {
            "automaticWeatherStation": "Wetland Park",
            "automaticWeatherStationID": "RF002",
            "value": "2",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Shui Pin Wai",
            "automaticWeatherStationID": "N12",
            "value": "M",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Shek Kong",
            "automaticWeatherStationID": "RF003",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Tai Mei Tuk",
            "automaticWeatherStationID": "RF004",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Tai Po Market",
            "automaticWeatherStationID": "RF005",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Pak Tam Chung",
            "automaticWeatherStationID": "RF006",
            "value": "0",
            "unit": "mm"
        },
        {
```

```
            "automaticWeatherStation": "Kau Sai Chau",
            "automaticWeatherStationID": "RF007",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Sai Kung",
            "automaticWeatherStationID": "N15",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Tseung Kwan O",
            "automaticWeatherStationID": "RF008",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Clear Water Bay",
            "automaticWeatherStationID": "RF009",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Waglan Island",
            "automaticWeatherStationID": "RF010",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Cheung Chau",
            "automaticWeatherStationID": "RF011",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Peng Chau",
```

```
            "automaticWeatherStationID": "RF012",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Ngong Ping",
            "automaticWeatherStationID": "RF013",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Hong Kong International Airport",
            "automaticWeatherStationID": "RF014",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Ta Kwu Ling",
            "automaticWeatherStationID": "RF015",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Sheung Shui",
            "automaticWeatherStationID": "RF016",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Tai Lung",
            "automaticWeatherStationID": "RF017",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Tsuen Wan Ho Koon",
            "automaticWeatherStationID": "RF018",
```

```
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Tuen Mun",
            "automaticWeatherStationID": "RF019",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Sha Tin",
            "automaticWeatherStationID": "RF020",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Cheung Ching",
            "automaticWeatherStationID": "RF021",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Sham Shui Po",
            "automaticWeatherStationID": "RF022",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Hong Kong Observatory",
            "automaticWeatherStationID": "RF023",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "King’s Park",
            "automaticWeatherStationID": "RF024",
            "value": "0",
```

```
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Broadcast Drive",
            "automaticWeatherStationID": "K02",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Kai Tak",
            "automaticWeatherStationID": "RF025",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "San Po Kong",
            "automaticWeatherStationID": "K09",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Kwun Tong",
            "automaticWeatherStationID": "K03",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Shau Kei Wan",
            "automaticWeatherStationID": "RF026",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Happy Valley",
            "automaticWeatherStationID": "RF027",
            "value": "0",
            "unit": "mm"
```

```
        },
        {
            "automaticWeatherStation": "The Peak",
            "automaticWeatherStationID": "RF028",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Magazine Gap",
            "automaticWeatherStationID": "H17",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Stanley",
            "automaticWeatherStationID": "H15",
            "value": "0",
            "unit": "mm"
        },
        {
            "automaticWeatherStation": "Wong Chuk Hang",
            "automaticWeatherStationID": "H24",
            "value": "0",
            "unit": "mm"
        }
    ]
}
```