POTEKA API Interface Spesifications



POTEKA API

URL : http://api.potekanet.com/

uki : niip.//ap		rce Hierafcky			Aquired element	Aquired number of point	Description	Bus
Version ——							Version No.	
	— Area —	_					Area	
		── real─ja ──					Real data	
		+	rectangle		0ne			
				P, A, Ra	element	multiple points	Acquisition of all designated data in designated area	GET /v1/area/real/ja/rectangle
				, , , , , , , , , , , , , , , , , , , ,				
			Profesture	For Japan o	nlv			1
			Troicotaro	тог оаран о	1			
			city			1		
		'	City		1	1	T	1
		forecast-ja		For Japan or				
			rectangle	For Japan o	nly	_		1
			prefecture	For Japan o	nly			
<u> </u>			 city	For Japan o	nly			
	-point —						Point	
	· _	—real—— ja—					Real Data	
		,					Acquisition of all designated POTEKA data in	
			— poteka	Р	All	designated	designated area	GET /v1/point/real/ja/poteka
			pocona	-	/ VIII	designated		der / vi/ pointe/ rout/ ju/ pocoka
			— amedas	For Japan o	alv.	1		
			ailicuas	For Japan of	T	1	T	1
		— radar	For Japan o	nly	1	T	1	
						<u> </u>		
				0	Diautuma	The point to be		OFT /v1/paint/waal/is/aamaya
		_	— camera	U .	Piculure	designated	Aauisition of Ameca Camara image	GET /v1/point/real/ja/camera
	<u> </u>	-forecast -ja -						
			— poteka	For Japan o	nly		-	
			— amedas	For Japan o	nly			
			— radar	For Japan o	nly	•		

Authorization

In order to use POTEKA API, Header must be added for authorization.

X-POTEKA-Authorization is added on request header and Specify the BASE64-encoded "login name: password" as the value.

X-POTEKA-Authorization: dGVzdHVzZXI6cGFzc3dvcmQ

Data Acquisition of designated rectangle area

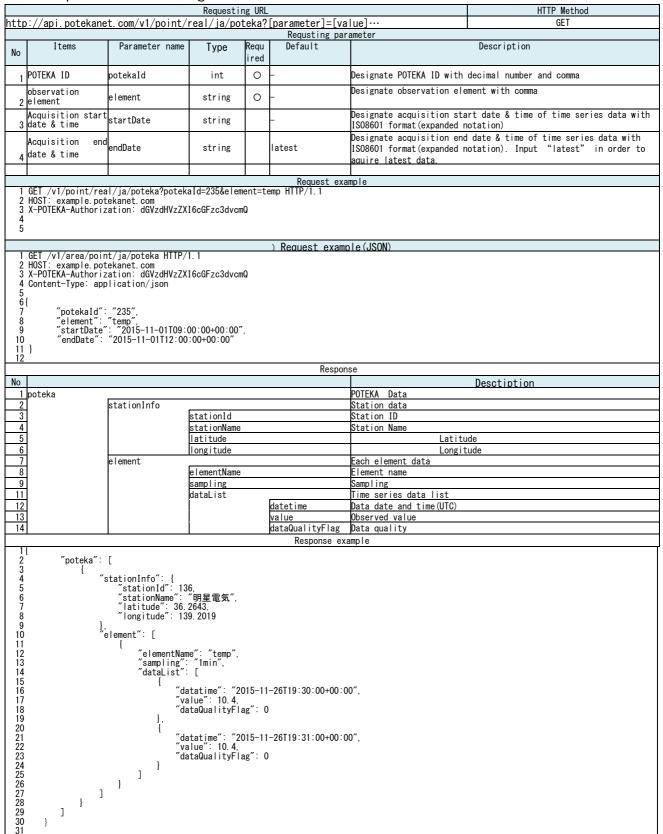
	-		Request	ing UR	L		HTTP Method
http	o://api.potekanet.	com/v1/area/rea	/ja/rec	tangl	e?[parameter]=[value]…	GET
					Requsting par	ramter	
No	Items	Parameter name	Туре	Requi red	Default		Description
1	Southwest atitude and ongitude swPoint string O - Designate Southwest latitude and longitude of area desired w decimal number & comma						
2	Northeast latitude and longitude	nePoint	string	0	_	Designate Northeast lat decimal number & comma	itude and longitude of area desired with
3	observation element	element	string	0	_	Designate observation el attached sheet.	ement with comma. Refer the element to
4	Acquisition start date & time	startDate	string		-	Designate acquisition sta ISO8601 format(expanded n	rt date & time of time series data with otation)
5	Acquisition end date & time	endDate	string		latest		I date & time of time series data with octation). Input "latest" in order to
6	Inclusion of POTEKA data	poteka	bool		true	Designate inclusion or no aquired	on inclusion of POTREKA data to data
7	For Japan only						
8	For Japan only						
9	For Japan only						
			-				
1	CET /v1//	1 /:- /n+ 1 - 0 D	-:	700 10	Request exa	<u>mple</u> 5.4369,139.4398&element=ter	HTTD /1 .1
2 3 4 5	HOST: example. X-POTEKA-Authori	potekanet.com zation: dGVzdHVzZX					· · · · · · · · · · · · · · · · · · ·
1	CET /v1/onc-/	al/ia/waatangl- UT	TD /1 1		Request examp	le(JSON)	
1 2 3 4 5 6 7 8 9 10 11 12 13	HOST: example. X-POTEKA-Authori Content-Type: { "swPoint": "nePoint": "element": "startDate": "endDate": "poteka":	al/ia/rectangle HT potekanet.com zation: dGVzdHVzZX application/json "36.1769, 138.9866' "36.4369, 139.4398' "temp", "2015-11-01T09:00 "2015-11-true, true,	I 6cGFzc3d				

No					Response	
StationInfo	No					
Station ID Station ID Station ID Station Name Station Name Iatitude Latitude Longitude Longitude	1	poteka				POTEKA Data
StationName	2		stationInfo			
S	3			stationId		
Comparison	4			stationName		Station Name
The second color of the	5					Latitude
The second color of the	6			longitude		Longitude
Sampling Sampling dataList Time series data list	7		element			Each element data
Sampling Sampling dataList Time series data list	8			elementName		Element name
12	9					Sampling
12	11			dataList		Time series data list
14	12				datetime	Data date and time
15	13				value	Observed value
15	14				dataQualityFla	Data quality
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 32 33 34 35	15					
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	16					
19	17					
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	18					
21	19					
22	20					
23	21					
24 25 26 27 28 29 30 31 32 33 34 35	22					
25 26 27 28 29 29 20 20 20 20 20 20	23					
26 27 28 29 30 31 32 33 34 35	24					
27	25					
28	26					
29 30 31 32 33 34 35 35	27					
30 31 32 33 34 35 35	28					
30 31 32 33 34 35 35	29					
31 32 33 34 34 35 35 36 37 37 37 37 37 37 37 37 37 37 37 37 37						
32 33 34 35						
33 34 35 35 36 37 37 38 39 39 31 31 31 32 33 34 35 35 35 35 35 35						
34 35						
35	34					
] 00	36					

response example

```
"poteka": [
  2
3
4
5
6
7
8
                    {
                         },
"element": [
10
11
                                {
                                     "elementName": "temp",
"sampling": "1min",
"dataList": [
12
13
14
15
                                           {
                                                "datatime": "2015-11-26T19:30:00+00:00",
"value": 10.4,
"dataQualityFlag": 0
16
17
18
19
                                          },
20
                                                "datatime": "2015-11-26T19:31:00+00:00",
"value": 10.4,
"dataQualityFlag": 0
21
22
                  }
23
24
25
26
27
28
29
              ],
```

Data Acquisition of designated POTEKA



Data qauisition of Camara (Designated camaer for POTEKA only) HTTP Method Requesting URL http://api.potekanet.com/v1/point/real/ja/camera?[parameter]=[value]… GET Requsting paramter Parameter name Requi Default Description Type No re POTEKA ID potekaId 0 Designate POTEKA ID with decimal number and comma int Designate acquisition start date & time of time series data with UTC ISO8601 format(expanded notation). Input "latest" in order to aquire latest data. Acquisition date datetime string latest & time Request example
1 GET /v1/point/real/ja/camera?potekaId=235&datetime=2015-11-26T19:30:00+00:00 HTTP/1.1 2 HOST: example.potekanet.com ${\tt 3~X-POTEKA-Authorization:~dGVzdHVzZXI6cGFzc3dvcmQ}\\$ Request example(JSON) 1 GET /v1/area/point/ja/camera HTTP/1.1 2 HOST: example.potekanet.com 3 X-POTEKA-Authorization: dGVzdHVzZXI6cGFzc3dvcmQ 4 Content-Type: application/json 6 { "potekaId": "235",
"datetime": "2015-11-26T19:30:00+00:00" 7 8 9} Response No Description binary data Response example 2 3 5 6 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 37 38 39 41 42

Attach sheet-Observation element Indication

Observatoin element (Real value)	English indication	Unit	Data interval	Observation range		remarks
Temperatuer	temp	° C	1min.	-99.9 ~99.9		
Humidity	humi	%RH	1min.	O~100		
Pressure	press I	hPa	1min.	0.0~9999.9		
Sea level pressure	press s	hPa	1min.	0.0~9999.9		
Wind direction	wind d	deg°	1min.	0~360	10 分平均風[句 10min. average
Wind speed	wind s	m/s	1min.	0.0~99.9	10 分平均風	東 10min. average
Wind direction at Max. Instantenous wind speed	wind max d	deg°	1min.	0~360		
Max. Instantenous wind speed	wind max s	m/s	1min.	0.0~99.9		
Solar Radiation	Solar	W/m	1min.	0~9999		
Dain Datastian	:		1	true	Including R	ain defection
Rain Detection	rain	_	1min.	false	Exclusing R	ain detection
One Min. precipitation	rain m	mm	1min.	0.0~999.9		
One hour				0 0 000 0		
precipitation	rain f	mm	1min.	0.0~999.9		
Rainfall Intensity	rain i	mm/h	1min.	0.0~99.9		
Contenous rainfall	rain c	mm	1min.	0.0~9999.9		
Effective rainfall	rain e	mm	1min.	0.0~9999.9		
Wet Bulb Globe						
Temperature	wbgt	С	1min.	0.0~99.9		
·				sunny	Sunny	Sunny/rainy
	weather			cloudy	Cloudy	judgement is not available in night
Weather		_	1min.	rainy	Rainy	time since solar
				night	Night	radiation is not
Weather radar image	_	_	10min.	IIIgiic _	Tile image	obtained.
Cemera Image	_	_	10min.	_	Installed s	taion only
Snow accumulation	snow c	cm	1min.	0.0~999.9	Installed s	-
Snowfall	snow f	cm	1min.	0.0~999.9	Installed s	
Water level	water level	m	1min.	-9. 9999~9. 9999	Installed s	
10101	10101	<u>"</u>		0: (no change)	THOCAT TOG O	caron only
Water level	water level			1; (Increase)	Installed s	taion only
change	change	e-	1min.	2: (Decrease)		
Road surface						
temperature	temp rs	С	1min.	-99. 9 ~ 99. 9	Installed s	taion only
PM2. 5	PM25	jug/m	1min.	0~999	Installed s	
Option	option		1min.	_	Installed s	

Error response

21101 100001100							
Response							
No	Description						
1 status	Status code						
2 error Code	Error code						
3 message	Error message						
Response exa	Response example						
1 {							
2 "status": 400,							
3 "errorCode": 401,							
4 "message": "not found"							
5 }							

	Error list										
No	status	Error Code	message	Description							
	200			success							
	400	100	Required parameter is not specified.								
		102	Undefined observation element.								
		200	The value of the parameter is invalid.								
		201	Datetime format that cannot be								
		202	Range of datetime is invalid.	Desigated date & time is invalid							
		203	Point format that cannot be identified.	Designated point is not identified							
		204	Range of the point is invalid.	Designated point is invalid							
	401	100	Authentication parameter is not								
		101	Login ID is invalid.								
		102	Failed to user authentication.								
		201	Observation point does not have								
	404	101	Observation point does not exist.								
	500	100	Failed to connect to the database.								
		101	Failed to get the observation data.								
		102	Failed to get the radar image file.								

Attached sheet-Other codes

Data quality code								
Data Quality code	Description							
0	ormal data							
1	issing data							
2	Extaordinary value change							
3	Insufficient informaiton							