

# BSRN STATION DESCRIPTION

## STATION MANAGER

Atmospheric Environment Division,  
Japan Meteorological Agency (JMA)

Address: 1-3-4 Otemachi, Chiyoda-ku,  
Tokyo 100-8122, Japan

Tel : +81-3-3212-8341 (ext. 4136)

FAX : +81-3-3211-4640

E-mail : [rrc-jma@met.kishou.go.jp](mailto:rrc-jma@met.kishou.go.jp)

## STATION LOCATION

Latitude : 43° 03.6' (43.0600 deg.) N

Longitude: 141° 19.7' (141.3286 deg.) E

Elevation : 17.2 m (MSL)

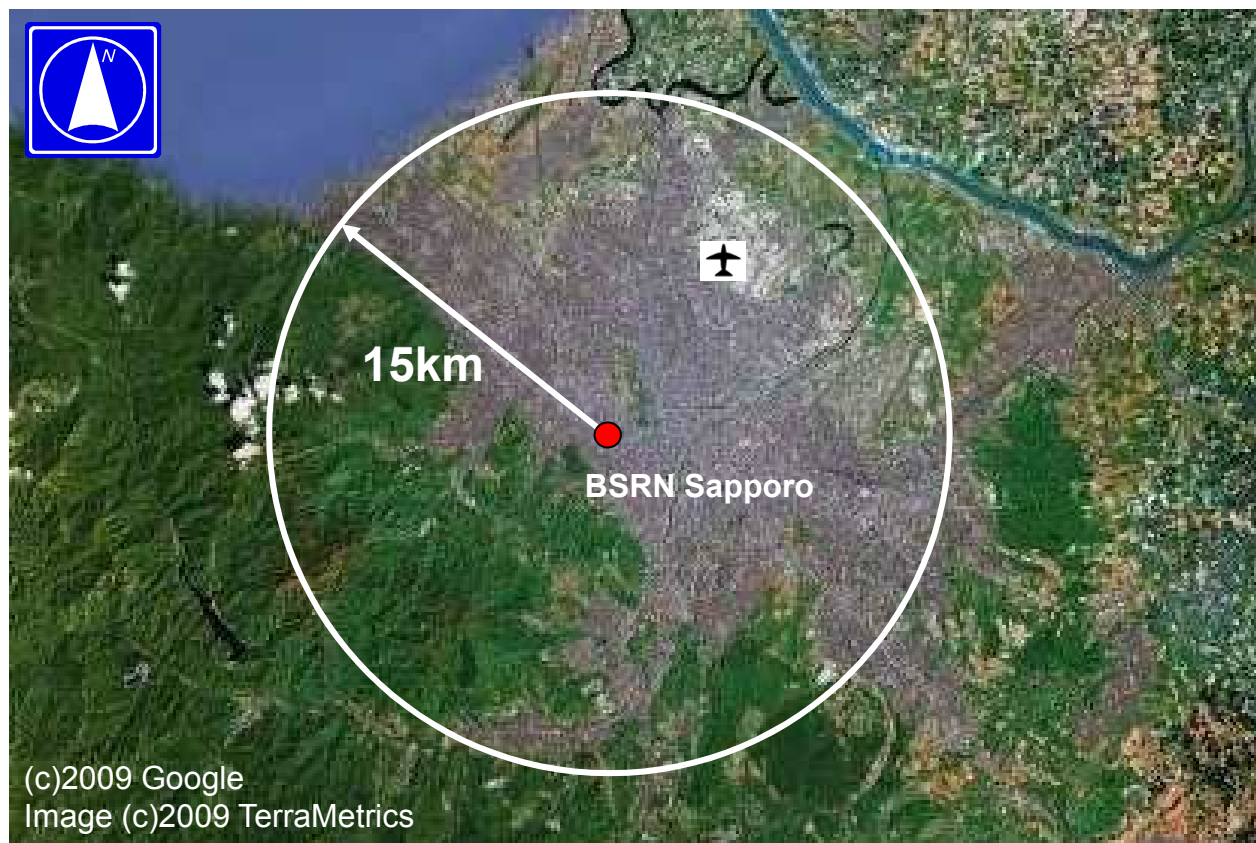
Local Time: GMT + 09

Topography Type: 1 (flat, urban)

Surface Type : 12 (asphalt)

Address : 18-2 Kita 2 Jo Nishi, Chuo-ku,  
Sapporo-shi, Hokkaido 060-0002, Japan

## TOPOGRAPHIC MAP OF SURROUNDING 15 KM RADIUS



# BSRN SITE DESCRIPTION

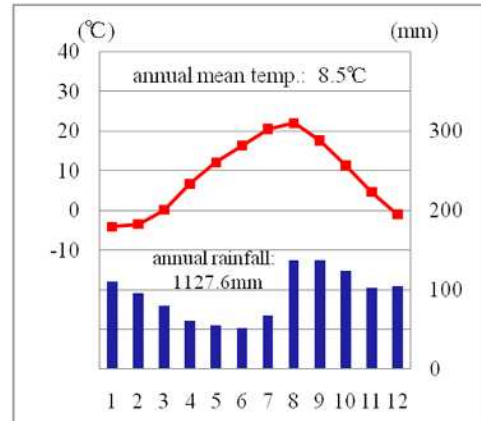
## SITE DESCRIPTION



Instruments are installed at the top of a tower.

## CLIMATE

Köppen climate classification Dfb  
(Warm summer continental climate)



## DESCRIPTIVE MAP OF SURROUNDING 1 KM RADIUS



- ① A building at 240 meters distance in NE direction
- ② A hill in S direction
- ③ A tower at 50 meters distance in W direction

# BSRN SITE DESCRIPTION

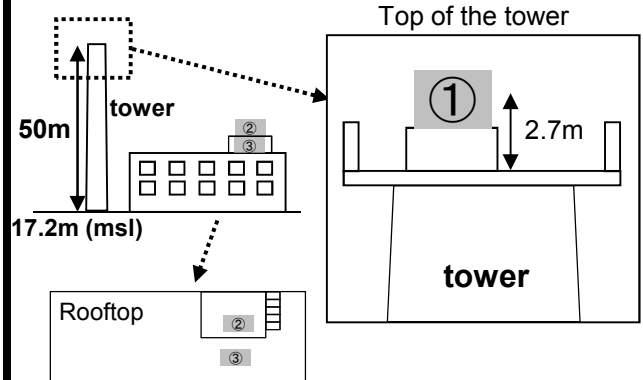
## INSTRUMENT DESCRIPTION

- ① Tracker (PREDE ASTX-220)  
Kipp & Zonen CHP1 Pyrheliometer  
Kipp & Zonen CMP21 Pyranometer  
( for Global Solar Radiation)  
Kipp & Zonen CMP22 Pyranometer  
( for Diffuse Solar Radiation)  
Kipp & Zonen CGR4 Pyrgeometer

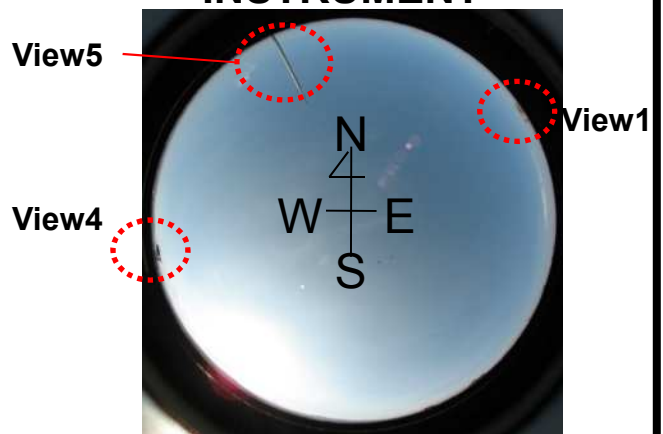
Height from ground level: 52.7 m  
Sampling frequency :1 Hz

- ② Kipp & Zonen Brewer Spectrophotometer
- ③ Beck Dobson Spectrophotometer

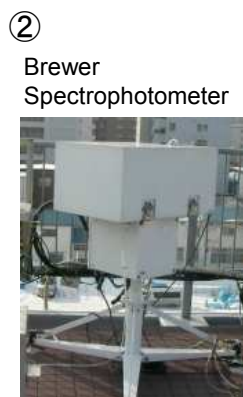
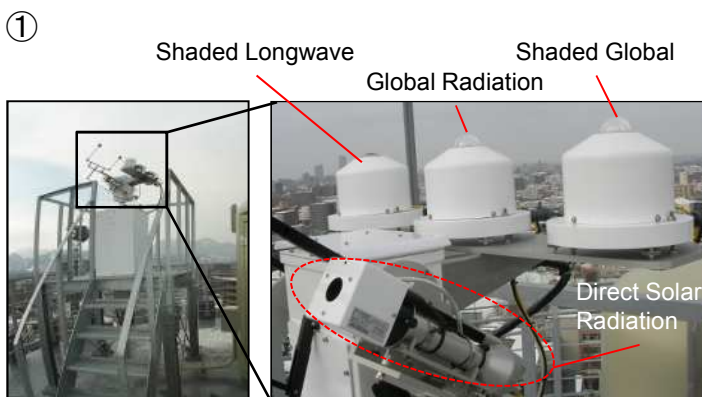
## INSTRUMENT LOCATION MAP



## HORIZON MAP OF CENTRAL INSTRUMENT



## DESCRIPTION OF METEOROLOGICAL INSTRUMENTS



# BSRN STATION VIEWS

## VIEW1



## DESCRIPTION

Building View

Azimuth 55 degrees

Inclination 8 degrees

The building does not obstruct direct beam through the year.

## VIEW2



## DESCRIPTION

Eastern View

Azimuth 90 degrees

Inclination ~5 degrees



# BSRN STATION VIEWS

## VIEW3



②Hill

## DESCRIPTION

Southern View

Azimuth 180 degrees

②Hill

Azimuth 190 degrees

Inclination 6 degrees

## VIEW4



③Tower

## DESCRIPTION

Western View

Azimuth 270 degrees

③Tower

Azimuth 260 degrees

Inclination 6 degrees

# BSRN STATION VIEWS

## VIEW5

Conductor rod



## DESCRIPTION

Conductor Rod View

Azimuth 335 degrees  
Inclination 53 degrees

The conductor rod does not obstruct direct beam through the year.

## VIEW6



## DESCRIPTION

Northern View

Azimuth 360 degrees  
Inclination ~5 degrees

# COMMENT ON THE SITE

●Additional observation programs:

(a) GCOS Upper Air Network (GUAN): upper-air observation

(b) WMO-GAW programme: UV observation by the Brewer spectrophotometer  
ozone observation by the Dobson spectrophotometer  
ozone observation by ozonesondes

(c) WMO WWW programme: surface observations (i.e. surface air temp., air pressure, humidity, wind, cloud amount, etc.)

●Calibration:

All radiometers are calibrated every 5 years. A pyrhelimeter and pyranometers are traceable to the WRR, and a pyrgeometer is traceable to the World Infrared Standard Group (WISG). The tracker will be overhauled every 5 years by its manufacturer.