BSRN STATION DESCRIPTION

STATION MANAGER

Ozone and Radiation Division, Aerological Observatory, Japan Meteorological Agency (JMA)

Address: 1-2 Nagamine, Tsukuba-shi, Ibaraki, 305-0052 JAPAN Tel : +81-29-851-2572 FAX : +81-29-851-5765 E-mail : rrc-jma@met.kishou.go.jp

STATION LOCATION

Latitude : 36° 03.5 ' (36.0581 deg.) N Longitude : 140° 07.6 ' (140.1258 deg.) E Elevation : 25.2 m (MSL) Local Time: GMT + 09 Topography Type: 1(flat , urban) Surface Type: 15(grass) Address : 1-2 Nagamine, Tsukuba-shi, Ibaraki, 305-0052 JAPAN

<image>

Teteno BSRN Station is located in the center of the Tsukuba city. The site of station is broad , and ground surface around is grass or forest.

BSRN SITE DESCRIPTION

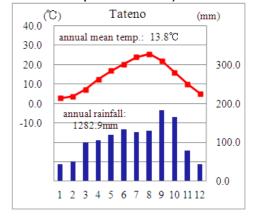
SITE DESCRIPTION



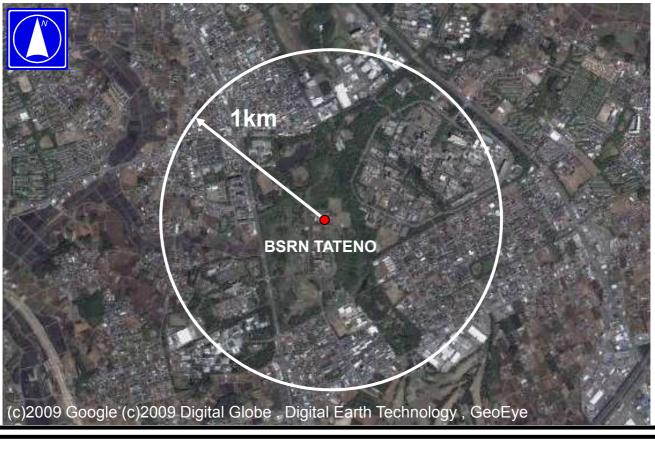
The Instruments except for instruments for Upwelling Infrared Radiation and Reflected Solar Radiation is located at the roof top of Aerological Observatory

CLIMATE

Köppen climate classification Cfa (Humid subtropical climate)



DESCRIPTIVE MAP OF SURROUNDING 1 KM RADIUS



BSRN SITE DESCRIPTION

INSTRUMENT DESCRIPTION

 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 the ground 18.2m.

2

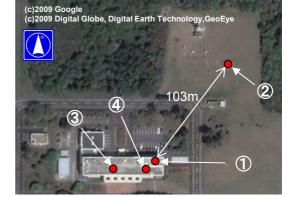
Kipp & Zonen CGR4 Pyrgeometer (for Upward Longwave Radiation) Kipp & Zonen CMP21 Pyranometer (for Reflected Solar Radiation)

Height from the ground 2.5m. Sampling frequency 1Hz (1) and 2)

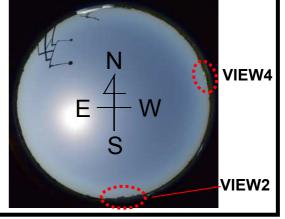
③Kipp & Zonen MKⅢ Brewer Spectrophotometer

④Beck Dobson Spectrophotometer

INSTRUMENT LOCATION MAP



HORIZON MAP OF CENTRAL INSTRUMENT

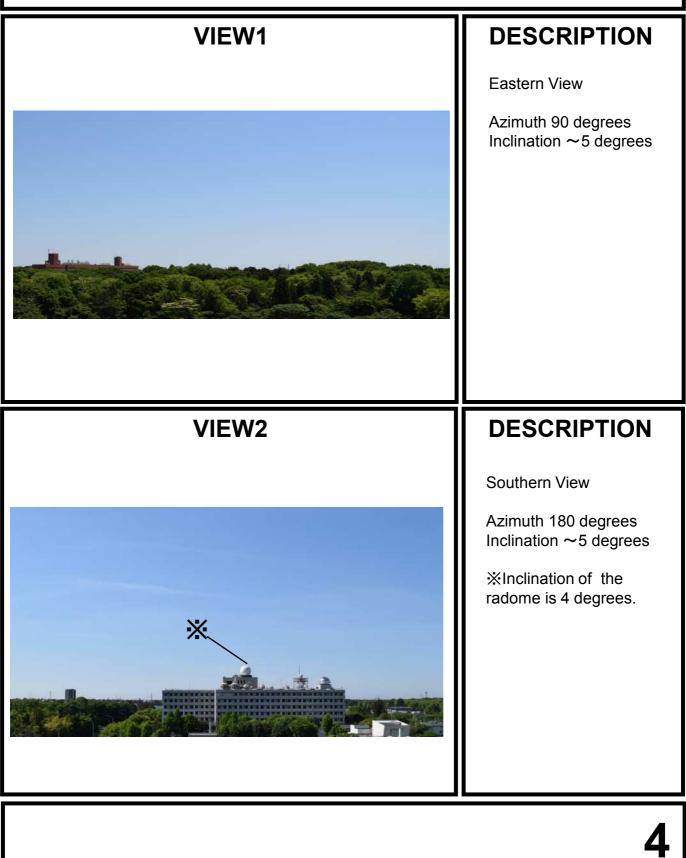


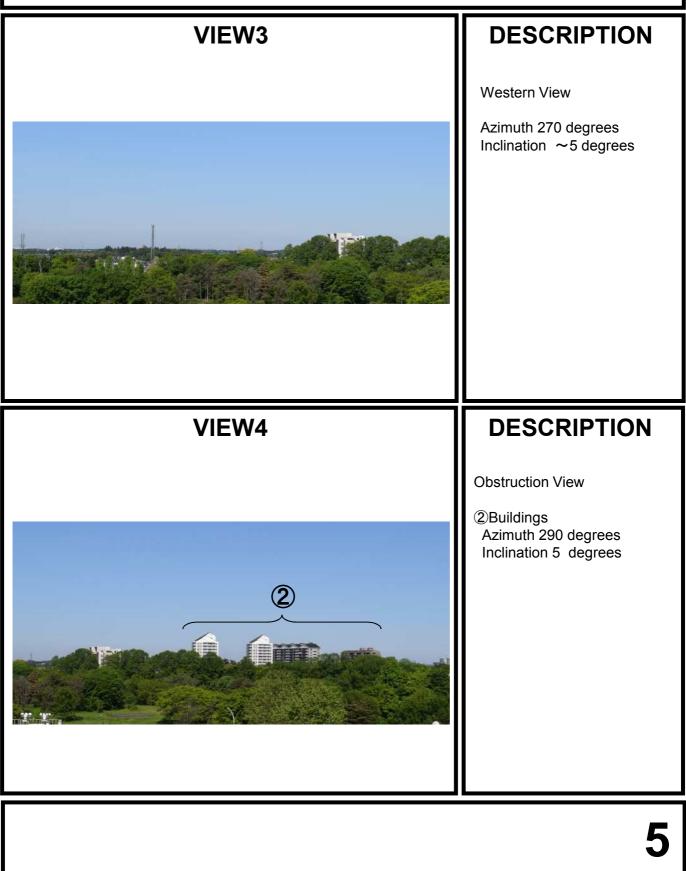
DESCRIPTION OF METEOROLOGICAL INSTRUMENTS





Downward Longwave Global Solar Diffuse Solar
3) Brewer Spectrophotometer
4) Dobson Spectrophotometer





VIEW5	DESCRIPTION
	Northern View
	Azimuth 360 degrees Inclination ~5 degrees
VIEW6	DESCRIPTION
6	

Additional observation Programmes

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

(b) GCOS Surface Network (GSN): surface observation

(c) WMO-GAW programme: UV observation by the Brewer spectrophotometer

ozone observation by the Dobson spectrophotometer ozone observation by ozonesondes

Calibration

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