

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

STATION LOCATION

Latitude : 24 ° 20.2' (24.3367deg.) N
Longitude: 124 ° 09.9' (124.1644deg.) E
Elevation : 5.7 m (MSL)
Local Time: GMT + 09
Topography Type: 2 (flat, rural)
Surface Type : 12 (asphalt)
Address : 428 Azanoshiro, Ishigaki-shi,
Okinawa-ken 907-0004, Japan

TOPOGRAPHIC MAP OF SURROUNDING 15 KM RADIUS

(c)2010 Google – (c)2010 TerraMetrics



BSRN SITE DESCRIPTION

SITE DESCRIPTION

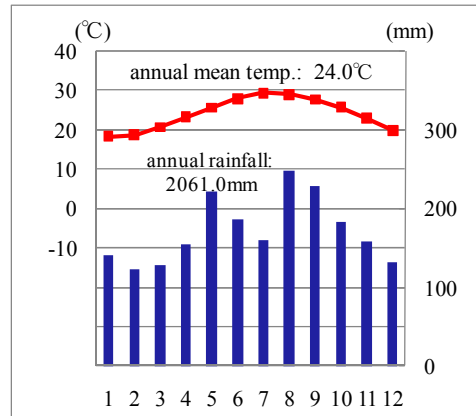


Ishigakijima Meteorological Observatory

Instruments are installed at the rooftop of the Ishigakijima meteorological observatory.

CLIMATE

Köppen climate classification Af.
(Tropical rainforest climate)



DESCRIPTIVE MAP OF SURROUNDING 2 KM RADIUS



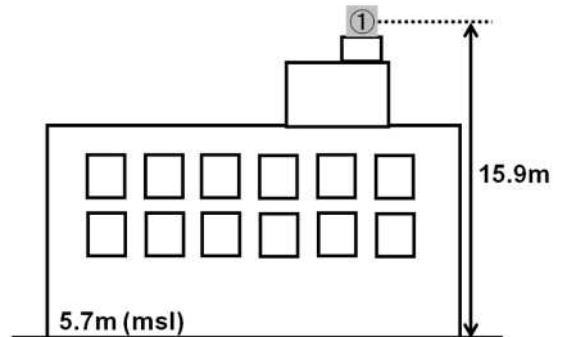
BSRN SITE DESCRIPTION

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

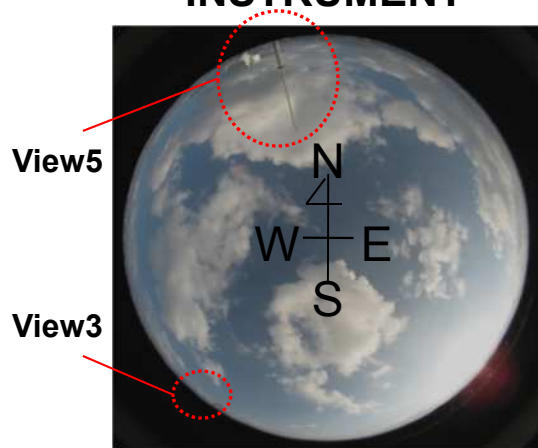
Height from ground level: 15.9m
Sampling frequency :1Hz

INSTRUMENT LOCATION MAP



Ishigakijima Meteorological Observatory

HORIZON MAP OF CENTRAL INSTRUMENT



DESCRIPTION OF METEOROLOGICAL INSTRUMENTS



BSRN STATION VIEWS

VIEW1



DESCRIPTION

Eastern View

Azimuth 90 degrees
Inclination ~5 degrees

VIEW2



DESCRIPTION

Southern Views

Azimuth 180 degrees
Inclination ~5 degrees

BSRN STATION VIEWS

VIEW3



DESCRIPTION

Tower View

Azimuth 210 degrees
Inclination 9 degrees

The tower does not obstruct direct beam through the year.

VIEW4



DESCRIPTION

Western Views

Azimuth 270 degrees
Inclination ~5 degrees

BSRN STATION VIEWS

VIEW5



DESCRIPTION

Antenna and Conductor Rod View

Azimuth 350 degrees
Inclination 50 degrees

The antenna and conductor rod do not obstruct direct beam through the year.

VIEW6

DESCRIPTION

COMMENT ON THE SITE

●Additional observation programs:

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

(b) 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 with WRR, and a pyrgeometer is traceable with World Infrared Standard Group(WISG). The tracker will be overhauled per 5 years by its manufacturer.