BSRN STATION DESCRIPTION

STATION MANAGER

Office of Antarctic Observations, Japan Meteorological Agency (JMA)

Address: Japan Meteorological Agency,

3-6-9 Toranomon, Minato-ku,

Tokyo 105-8431, JAPAN

Tel: +81-3-3434-9105

E-mail: antarctic@met.kishou.go.jp

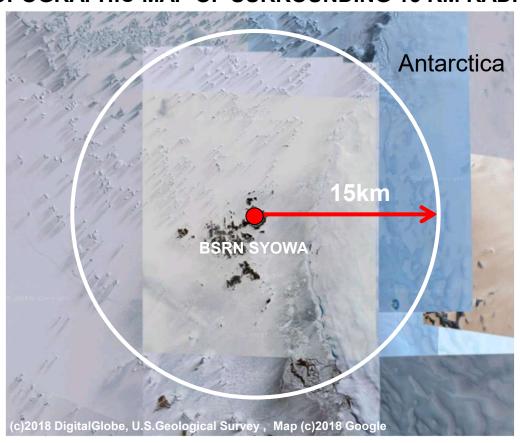
STATION LOCATION

Latitude : 69° 00.3' (69.005 deg.) S Longitude : 39° 34.9' (39.581 deg.) E

Elevation: 29.1 m (MSL) Local Time: GMT + 03

Topography Type: 4(hilly, rural)
Surface Type: 4(sea ice)
Address: Syowa Station, Antarctica

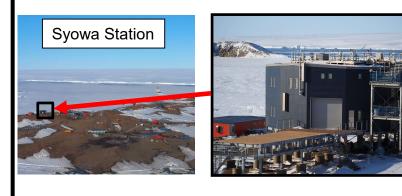
TOPOGRAPHIC MAP OF SURROUNDING 15 KM RADIUS



Syowa Station is an observatory located on East Ongul Island, about 4 km from the continent, on the east coast of Lutzow-Holm Bay, East Antarctica.

BSRN SITE DESCRIPTION

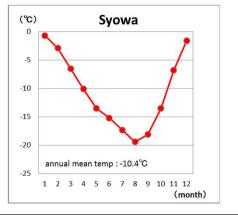
SITE DESCRIPTION



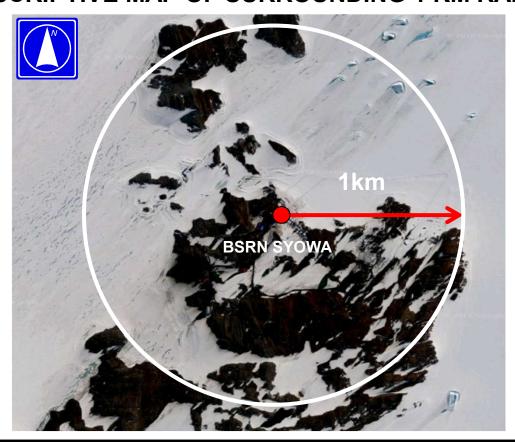
The observation site faces the sea ice and is covered with snow except for a short summer period.

CLIMATE

Köppen climate classification EF (Ice cap climate)



DESCRIPTIVE MAP OF SURROUNDING 1 KM RADIUS



BSRN SITE DESCRIPTION

INSTRUMENT DESCRIPTION

①
Tracker(EKO STR-22,STR-22G)
Kipp & Zonen CHP1 Pyrheliometer
Kipp & Zonen CMP21 Pyranometer
(for Diffuse Solar Radiation)
Kipp & Zonen CGR4 Pyrgeometer

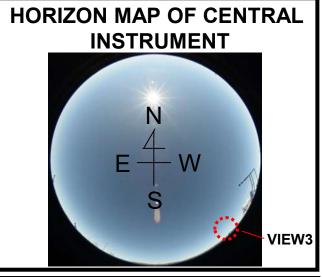
Kipp & Zonen CMP21 Pyranometer (for Global Solar Radiation)

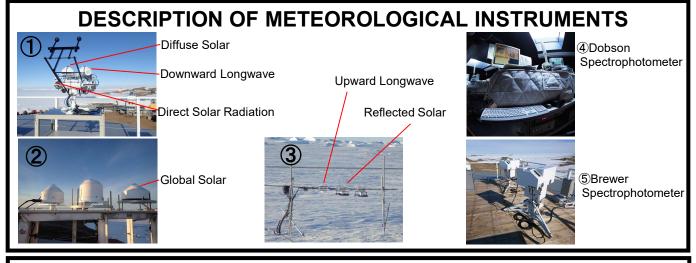
Kipp & Zonen CGR4 Pyrgeometer (for Upward Longwave Radiation) Kipp & Zonen CMP21 Pyranometer (for Reflected Solar Radiation)

(4) Beck Dobson Spectrophotometer

⑤
Kipp & Zonen MK II ,MK III
Brewer Spectrophotometer







VIEW1



DESCRIPTION

Eastern View

Azimuth 90 degrees Inclination ~2 degrees

VIEW2



DESCRIPTION

Southern View

Azimuth 180 degrees Inclination ~3 degrees

VIEW3



DESCRIPTION

Obstruction View

- Antenna
 Azimuth 189 degrees
 Inclination 10 degrees
- 2 AntennaAzimuth 239 degreesInclination 11 degrees

VIEW4



DESCRIPTION

Western View

Azimuth 270 degrees Inclination ~0 degrees

VIEW5



DESCRIPTION

Northern View

Azimuth 360 degrees Inclination ∼1 degrees

VIEW6

DESCRIPTION

- 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

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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.