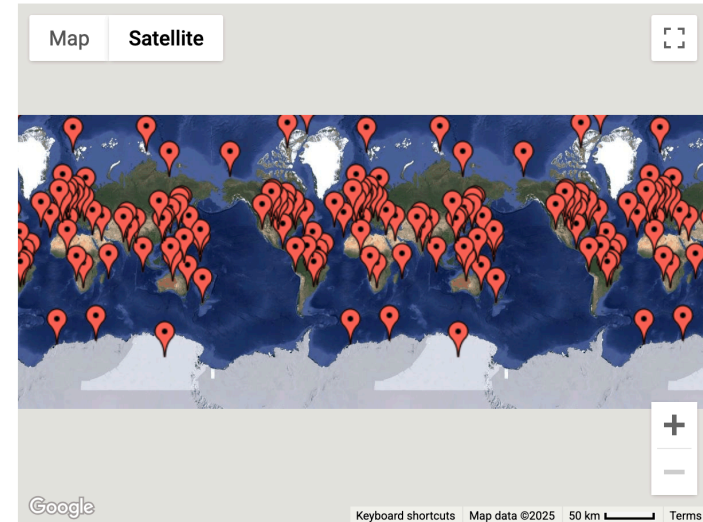


Citation:

Lanconelli, Christian; Riihimaki, Laura; Driemel, Amelie; Augustine, John; Badosa, Jordi; Baika, Sidi; Bonifaz, Roberto; Carstea, Emil; Colle, Sergio; Cox, Christopher J; Cuevas-Agulló, Emilio; da Silva, Alexandre K; Denn, Fred M; Duck, Benjamin; Duprat, Thierry; Fabbri, Bryan; Fekete, Dénes; Hodgetts, Grant; Ijima, Osamu; Kallis, Ain; Knap, Wouter; Kustov, Vasilii; Lin, Kun-Wei; Lupi, Angelo; Maturilli, Marion; Morel, Beatrice; Ntsangwane, Lucky; Ohtake, Jun; Olano, Xabier; Olefs, Marc; Omori, Masao; Ogawa, Yutaka; PETERS, Ankie; Ramanathan, Karthik; Schmithüsen, Holger; Suarez, Luis; Tully, Matt; Vogt, Roland; Vuilleumier, Laurent; Wacker, Stefan; Xia, Xiangao (2023): Baseline surface radiation data snapshot 2023-03-31 [dataset]. PANGAEA,  <https://doi.org/10.1594/PANGAEA.957398>

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Abstract:

BSRN is a project of the Data and Analysis Panel from the Global Energy and Water Exchange (GEWEX) and as such is aimed at detecting important changes in the Earth's radiation field at the Earth's surface which may be related to climate changes. The data are of primary importance in supporting the validation and confirmation of satellite and computer model estimates of these quantities. At a small number of stations (currently 76 in total, 51 active, 9 declared as inactive, 16 are closed) in contrasting climatic zones, covering a latitude range from 80°N to 90°S (see station maps), solar and atmospheric radiation is measured with instruments of the highest available accuracy and with high time resolution (1 to 3 minutes). This snapshot contains the data as well as quality flags for all radiation data submitted to the BSRN archive until 2023-03-31.

Related to:

Driemel, Amelie; Augustine, John; Behrens, Klaus; Colle, Sergio; Cox, Christopher J; Cuevas-Agulló, Emilio; Denn, Fred M; Duprat, Thierry; Dutton, Ellsworth G; Fukuda, Masato; Grobe, Hannes; Haefelin, Martial; Hodges, Gary; Hyett, Nicole; Ijima, Osamu; Kallis, Ain; Knap, Wouter; Kustov, Vasilii; Lanconelli, Christian; Long, Charles; Longenecker, David; Lupi, Angelo; Maturilli, Marion; Mimouni, Mohamed; Ntsangwane, Lucky; Ogiwara, Hiroyuki; Olano, Xabier; Olefs, Marc; Omori, Masao; Passamani, Lance; Pereira, Enio Bueno; Schmithüsen, Holger; Schumacher, Stefanie; Sieger, Rainer; Tamlyn, Jonathan; Vogt, Roland; Vuilleumier, Laurent; Xia, Xiangao; Ohmura, Atsumu; König-Langlo, Gert (2018): Baseline Surface Radiation Network (BSRN): structure and data description (1992-2017). *Earth System Science Data*, **10**(3), 1491-1501,  <https://doi.org/10.5194/essd-2018-8>

Further details:

[BSRN snapshot citation list and link to respective PANGAEA datasets](#) 
[BSRN toolbox processing info](#) 

Project(s):

[Baseline Surface Radiation Network \(BSRN\)](#) 