

Pyrheliometric
Data

Pyranometric
Data

Solar Radiation Data

Time resolved information

Types of radiation

Irradiance
(instantaneous
measurements)

Irradiation
(integrated
over time)

Averaged
irradiation
(over time)

Measurement setup

Horizontal
surface

Inclined
surface

Beam radiation

Diffuse radiation

Total radiation

Solar Radiation Data

Tamami Kusuda, Katsumi Ishii

Solar Radiation Data:

Solar Radiation Data Sources, Applications, and Network Design Kenneth E. Johnson Environmental and Energy Center, 1978 A prerequisite to considering solar energy projects is to determine the requirements for information about solar radiation to apply to possible projects This report offers techniques to help the reader specify requirements in terms of solar radiation data and information currently available describes the past and present programs to record and present information to be used for most requirements presents courses of action to help the user meet his needs for information lists sources of solar radiation data and presents the problems costs benefits and responsibilities of programs to acquire additional solar radiation data Extensive background information is provided about solar radiation data and its use Specialized information about recording collecting processing storing and disseminating solar radiation data is given Several Appendices are included which provide reference material for special situations

Solar Radiation Data Willeke Palz, 2012-12-06 This book gives a comprehensive overview of activities currently under way to produce collect and compile radiation data as needed for the various types of solar energy applications in Europe Contributions have been made by all contractors of the Commission of the European Communities in particular the Meteorological Offices of the EC member countries They all reported on their work at a meeting which was held in October 1982 in Brussels and of which these are the proceedings The Commission work in this area follows a detailed strategy which was published earlier as part of the proceedings of Volume I Series F Series F is especially devoted to publications on the European Communities work on solar radiation data Other volumes within Series F are in preparation and will deal with solar radiation data on tilted planes solar radiation data derived from meteorological satellite observations In addition two new atlases are being prepared one showing for the area of the European Community maps for solar radiation on tilted planes of various inclinations and orientations and the other showing for the whole of Europe and the Eastern part of the Mediterranean radiation data for horizontal planes In the latter there will also be a statistical analysis section Both atlases will be published in the course of 1983

Modeling Solar Radiation at the Earth's Surface Viorel Badescu, 2008-02-01 Solar radiation data is important for a wide range of applications e g in engineering agriculture health sector and in many fields of the natural sciences A few examples showing the diversity of applications may include architecture and building design e g air conditioning and cooling systems solar heating system design and use solar power generation evaporation and irrigation calculation of water requirements for crops monitoring plant growth and disease control skin cancer research

Solar Radiation Data Directory, 1983 *Solar Radiation Data Sources, Applications, and Network Design* Kenneth E. Johnson Environmental and Energy Center, 1978 A prerequisite to considering solar energy projects is to determine the requirements for information about solar radiation to apply to possible projects This report offers techniques to help the reader specify requirements in terms of solar radiation data and information currently available describes the past and present programs to record and present information to be used for

most requirements presents courses of action to help the user meet his needs for information lists sources of solar radiation data and presents the problems costs benefits and responsibilities of programs to acquire additional solar radiation data Extensive background information is provided about solar radiation data and its use Specialized information about recording collecting processing storing and disseminating solar radiation data is given Several Appendices are included which provide reference material for special situations Solar Radiation Data Wolfgang Palz,1982 Spectral Solar Radiation Data Base

Documentation Carol J. Riordan,1990 **Solar Radiation Data Manual for Buildings** William Marion,1995 For use by architects and engineers the Solar Radiation Data Manual for Buildings provides solar resource information for common window orientations for the United States and its territories This information was modeled using solar radiation and meteorological data gathered from 1961 to 1990 and will permit quick evaluations of passive solar and daylighting features for buildings **Monthly Summary, Solar Radiation Data** ,1981 **Solar Radiation Data from Satellite Images** W. Grüter,1986-02-28 Solar Radiation Data Willeke Palz,2012-12-06 Proceedings of the EC Contractors Meeting held in Brussels Belgium 20 November 1981 **Interim Solar Radiation Data Manual** National Renewable Energy Laboratory (U.S.),1992

Direct Normal Solar Radiation Data Manual Connie L. Knapp,Thomas L. Stoffel,1982 Solar Radiation Data Manual for Flat-Plate and Concentrating Collectors ,1994 For designers and engineers of solar energy related systems the Solar Radiation Data Manual for Flat Plate and Concentrating Collectors gives the solar resource available for various types of collectors for the United States and its territories The data in the manual were modeled using hourly values of direct beam and diffuse horizontal solar radiation from the National Solar Radiation DataBase NSRDB The NSRDB contains modeled 93 % and measured 7 % global horizontal diffuse horizontal and direct beam solar radiation for 1961 1990 **Solar**

Radiation Data Willeke Palz,2012-01-19 This book gives a comprehensive overview of activities currently under way to produce collect and compile radiation data as needed for the various types of solar energy applications in Europe Contributions have been made by all contractors of the Commission of the European Communities in par ticular the Meteorological Offices of the EC member countries They all re ported on their work at a meeting which was held in October 1982 in Brussels and of which these are the proceedings The Commission work in this area follows a detailed strategy which was published earlier as part of the proceedings of Volume I Series F Series F is especially devoted to publications on the European Communities work on solar radiation data Other volumes within Series F are in preparation and will deal with solar radiation data on tilted planes solar radiation data derived from meteorological satellite obs tions In addition two new atlases are being prepared one showing for the area of the European Community maps for solar radiation on titled planes of various inclinations and orientations and the other showing for the whole of Europe and the Eastern part of the Mediterranean radiation data for horizontal planes In the latter there will also be a statistical analy sis section Both atlases will be published in the course of 1983 **Monthly Summary, Solar Radiation Data** ,1981 Hourly Solar Radiation

Data for Vertical and Horizontal Surfaces on Average Days in the United States and Canada Tamami Kusuda, Katsumi Ishii, 1977 *The European Solar Radiation Atlas* K. Scharmer, J. Greif, 2000

Solar Radiation Data Sources, Applications, and Network Design, 1978 A prerequisite to considering solar energy projects is to determine the requirements for information about solar radiation to apply to possible projects. This report offers techniques to help the reader specify requirements in terms of solar radiation data and information currently available. It describes the past and present programs to record and present information to be used for most requirements. It presents courses of action to help the user meet his needs for information, lists sources of solar radiation data and presents the problems, costs, benefits and responsibilities of programs to acquire additional solar radiation data. Extensive background information is provided about solar radiation data and its use. Specialized information about recording, collecting, processing, storing and disseminating solar radiation data is given. Several Appendices are included which provide reference material for special situations.

Evaluation of the National Solar Radiation Database (NSRDB), 2017 This paper validates the performance of the physics based Physical Solar Model PSM data set in the National Solar Radiation Data Base NSRDB to quantify the accuracy of the magnitude and the spatial and temporal variability of the solar radiation data. Achieving higher penetrations of solar energy on the electric grid and reducing integration costs requires accurate knowledge of the available solar resource.

Understanding the impacts of clouds and other meteorological constituents on the solar resource and quantifying intra, inter-hour, seasonal and interannual variability are essential for accurately designing utility scale solar energy projects. Solar resource information can be obtained from ground based measurement stations and/or from modeled data sets. The availability of measurements is scarce both temporally and spatially because it is expensive to maintain a high density solar radiation measurement network that collects good quality data for long periods of time. On the other hand, high temporal and spatial resolution gridded satellite data can be used to estimate surface radiation for long periods of time and is extremely useful for solar energy development. Because of the advantages of satellite based solar resource assessment, the National Renewable Energy Laboratory developed the PSM. The PSM produced gridded solar irradiance, global horizontal irradiance (GHI), direct normal irradiance (DNI) and diffuse horizontal irradiance for the NSRDB at a 4 km by 4 km spatial resolution and half hourly temporal resolution covering the 18 years from 1998–2015. The NSRDB also contains additional ancillary meteorological data sets such as temperature, relative humidity, surface pressure, dew point and wind speed. Details of the model and data are available at <https://nsrdb.nrel.gov>. The results described in this paper show that the hourly averaged satellite derived data have a systematic bias error of approximately 5% for GHI and less than 10% for DNI; however, the scatter root mean square error (RMSE) difference is higher for the hourly averages.

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