State what solar insolation is

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Solar insolation, or the amount of solar radiation received on a surface over a period of time, is influenced by various factors, including:

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For more information on NREL"s solar resource data development, see the National Solar Radiation Database (NSRDB).

The maps below illustrate select multiyear annual and monthly average maps and geospatial data from the National Solar Radiation Database (NSRDB)Physical Solar Model (PSM). The PSM covers most of the Americas.Learn about the NSRDB PSM.

To access the data directly and learn more about data development, please visit the NSRDB.

These maps may be used in electronic and printed publications with proper citation.

Download the global horizontal irradiance (GHI) maps individually below, or download all the GHI maps at once.

Note: The publication dates listed below don"t necessarily reflect the publication dates of the data therein.

Model: PSM v3.0 Publication Date: Feb. 22, 2018 File Type/Resolution: JPG, 300 ppi

Global Horizontal Solar Irradiance--Americas (Print Format: 8.5"x11")

U.S. Annual Solar GHI (Print Format: 11"x17")

This map provides annual average daily total solar resource using 1998-2016 data (PSM v3) covering 0.038-degree latitude by 0.038-degree longitude (nominally 4 km x 4 km). For more information, please visit NSRDB or email NSRDB.

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