

Meteo norm

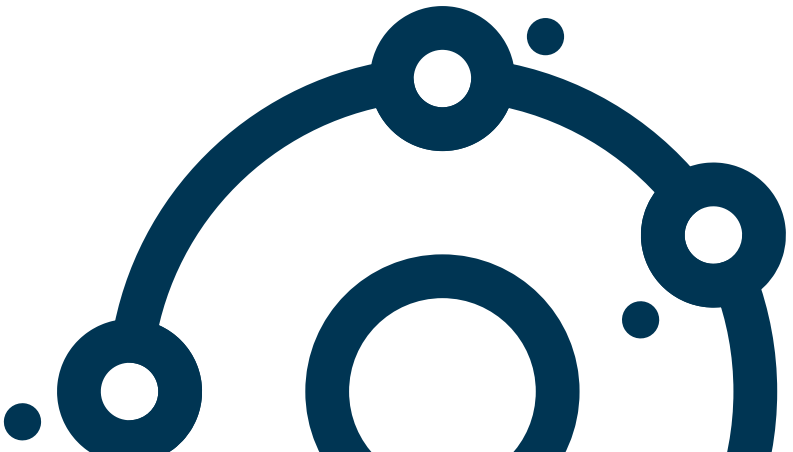
Irradiation data for
every place on Earth.

Meteonorm Software

Meteonorm offers you simple access to accurate data for any place on Earth: Irradiation, temperature and more weather parameters are available.

Meteonorm contains worldwide weather data which you can retrieve in over 35 data formats. Be it as an Excel file for manual analysis or be it as an import to your photovoltaic, solar thermal or building simulation software.

Meteonorm contains the best foundation: 8'325 weather stations, five geostationary satellites and 30 years of experience. On this basis, state of the art interpolation models globally deliver data with highest accuracy.



203 198 178 175 175 183 193 203

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The new Metonorm software 7.1 has a worldwide 8 km grid whereas version 7.0 had a 30 km grid.

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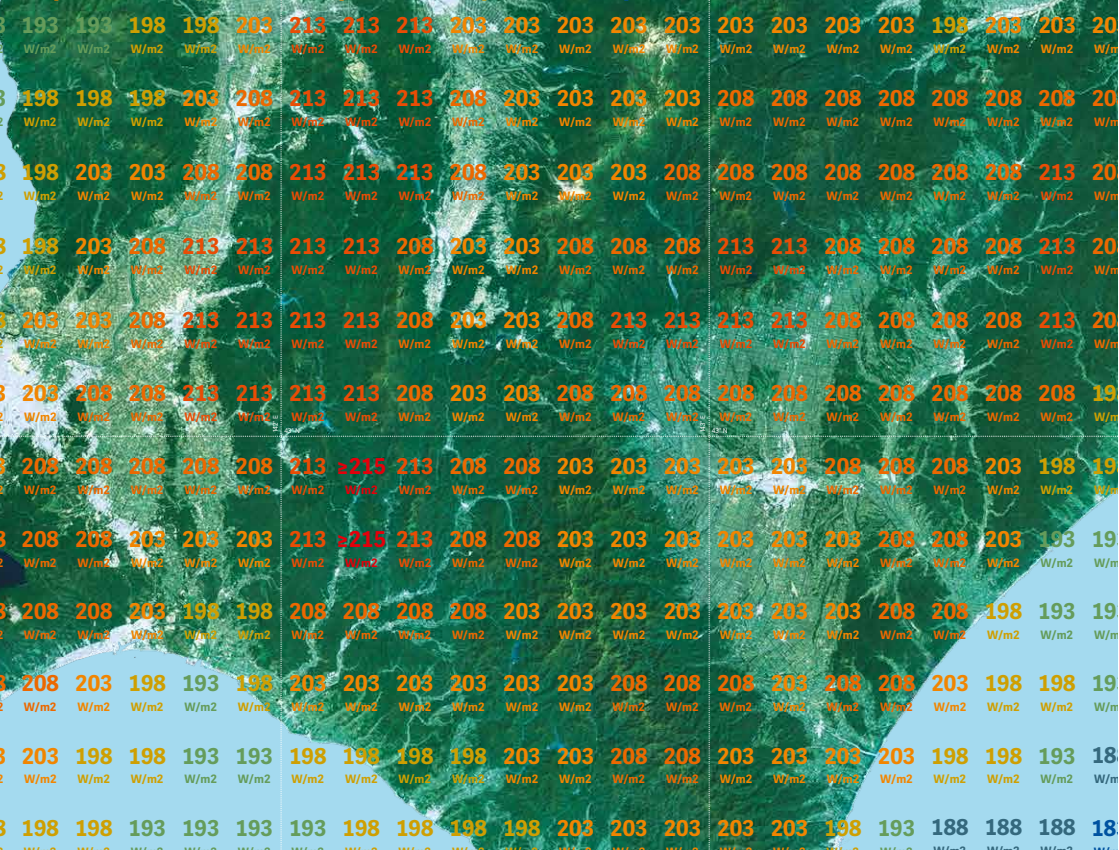
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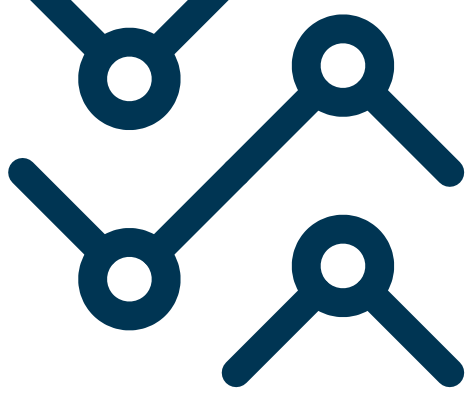
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W/m2 W/m2 W/m2 W/m2 W/m2 W/m2 W/m2 W/m2



Meteonorm Features



Access

Irradiation and other weather data for any location on Earth.

Time Intervalls

Meteonorm delivers monthly, hourly and even minute values.

Historical Data

The standard is 1991–2010 for irradiation and 2000–2009 for other parameters; other periods can be selected.

Highest Precision

Built-in state of the art interpolation models deliver data for any location worldwide with a precision comparable to measurements.

Over 30 Parameters

Global radiation, direct radiation, temperature, precipitation, humidity, wind etc.

Future Data

Meteonorm contains several climate change scenarios, so you can also plan for the future.

Global Data

The database is fed by 8'325 weather stations worldwide as well as by five geostationary satellites with global coverage.

Export Formats

More than 35 output formats are available: CSV, TMY2, TMY3, EPW, PVSol, PVSyst, Polysun etc.

Current Data

Current data can be accessed online directly from the software. User data can also be imported.



Meteonorm Products & Services

*You require a specific data set or analysis?
We offer a range of customizable
products and services based on Meteonorm.*



Dataset

A Meteonorm dataset is the right choice if you require location specific meteorological data once or occasionally for your assessments or calculations.



Measurement Archive

The measurement archive contains historical, unaltered data from meteorological stations or satellites out of our Meteonorm archive.



Map

We produce maps with any meteorological parameter for any region in the world between 62° S and 62° N.



Expertise

Our expertises are individually customized assessments of the solar irradiation at your project site and for your specific requirements.



Horicatcher

With the Horicatcher you can digitize the local horizon and shadowing situation efficiently and precisely. Import the horizon into Meteonorm for even more precise results.



Plugin

For software producers: Your software can access Meteonorm datasets directly using an integrated plugin. Offer your clients more value!



Solar Cadaster

A solar cadaster is an inventory of each roof in a town, commune or region, its orientation, inclination and irradiation as well as the corresponding solar potential.

8'325 meteorological stations worldwide

Numerous global and regional data-bases have been combined and checked for their reliability.

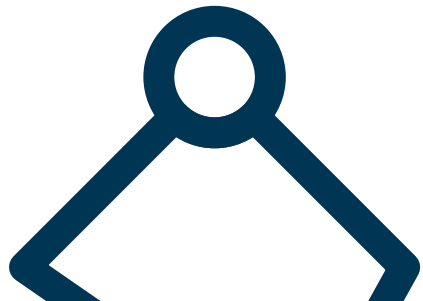
In the present version, most of the data is taken from the GEBA (Global Energy Balance Archive), from the World Meteorological Organization (WMO/OMM) Climatological Normals 1961–1990 and from the Swiss database compiled by MeteoSwiss.

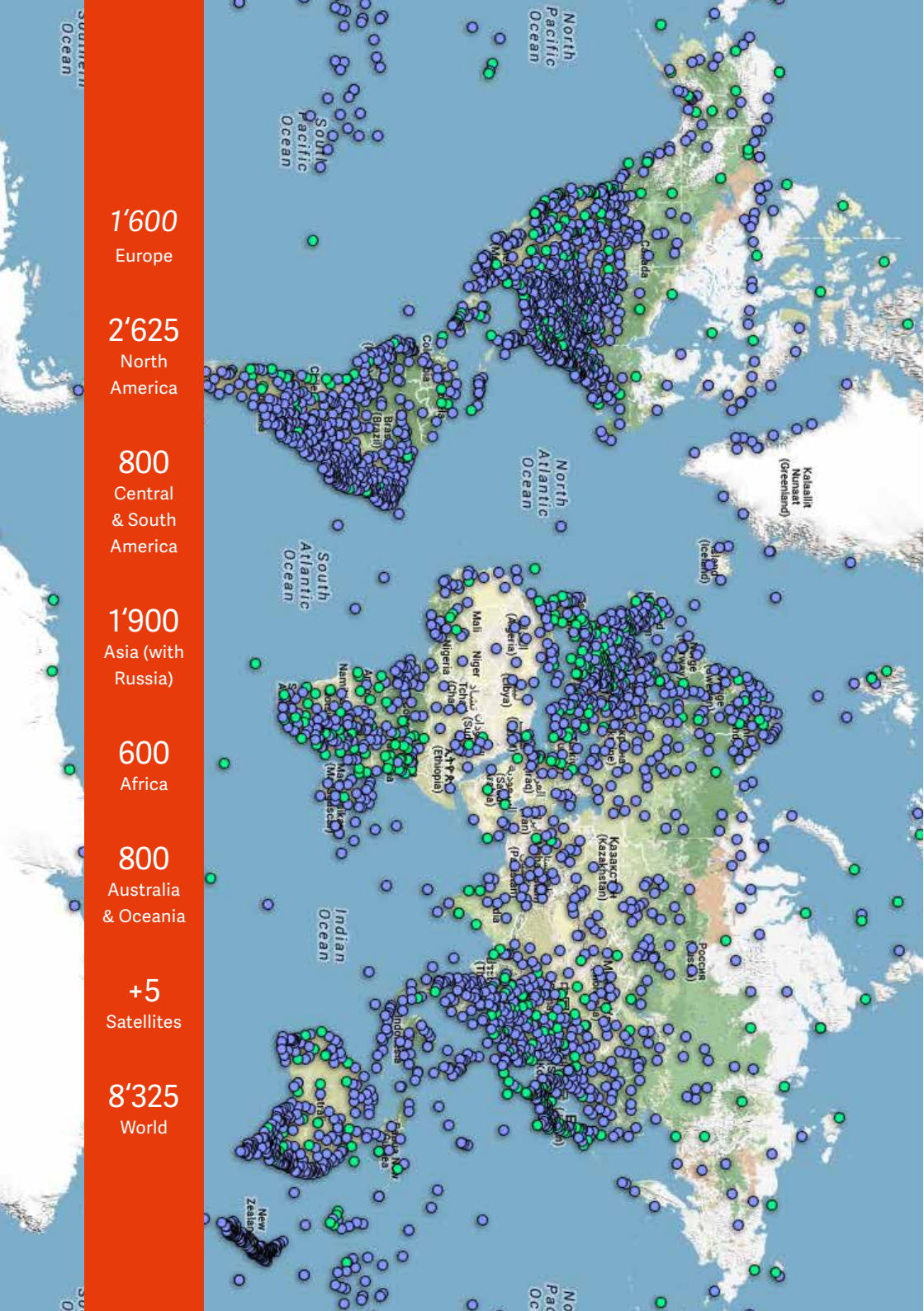
The periods 1961–1990 and 2000–2009 are available for temperature, humidity, wind speed and precipitation; the periods 1981–1990 and 1991–2010 for solar radiation.

Monthly climatological (long term) means are available for the following eight parameters:

- global radiation
- ambient air temperature
- humidity
- precipitation
- days with precipitation
- wind speed
- wind direction
- sunshine duration

The station data is supplemented by surface data from five geostationary satellites. This data is available on a global grid with a horizontal resolution of 8 km (3 km in Europe and Northern Africa).





1'600

Europe

2'625

North America

800

Central & South America

1'900

Asia (with Russia)

600

Africa

800

Australia & Oceania

+5

Satellites

8'325

World



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Member of: IEA SHC Task 46 & PVPST. 14

Meteotest is a private weather service dedicated to deliver high quality weather data. We are experts in solar energy with more than 30 years of experience. Our services include the solar data software **Meteonorm**, the horizon measurement tool **Horicatcher**, the solar satellite service **SolarSat** and the solar forecast services **CloudMove** and **SolarForecast**.

Our track record includes leading the Cost Action ES 1002 «Weather Intelligence for Renewable Energies (WIRE)» and participating in the EU FP7 project «DNI Cast» addressing shortest-term DNI forecasts. Furthermore, Meteotest is member of IEA PVPS Task 14 «High Penetration of PV Systems in Electricity Grids» and IEA Task 46 «Solar Resource Assessment and Forecasting».



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