

Data identification

Title	Longterm yearly average of global horizontal irradiation - South Africa
Date	2017-06
Date type	Publication
Abstract	Longterm yearly average of global horizontal irradiation (GHI) in kWh/m2, covering the period 1994-2015
Purpose	Reference information for the assessment of flat-plate PV (photovoltaic) and solar heating technologies (e.g. hot water)
Unique resource identifier	388de26f-a7c7-ae34-1ebe-bdcb21b2d3cc
Supplemental information	This is an output from the contract on solar resource assessment and mapping, signed between the World Bank Group and Solargis. This activity is funded and supported by the Energy Sector Management Assistance Program (ESMAP), a multi-donor trust fund administered by The World Bank, under a global initiative on Renewable Energy Resource Mapping.
Keywords	Solar resource data, GHI, global horizontal irradiation, Long-term average, Solargis, World Bank, ESMAP
Legal constraints	Copyright: Solar resource data © 2017 Solargis. The data is published under a Creative Commons Attribution license (CC BY 3.0 IGO)

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Role	Originator

Topic category	Climatology, meteorology, atmosphere
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Extent

Geographic bounding box

West bound	16.0
East bound	39.0
South bound	-48.0
North bound	-22.0

Spatial resolution

Units	arc-sec
Distance	30.0

Lineage

Statement	Solar radiation data from satellite-based model developed by Solargis company
Description	Solar radiation data is derived by Solargis algorithms (v2.1) from satellite digital images and atmospheric datasets: Meteosat PRIME and IODC by Eumetsat; GOES-East and GOES-West by NOAA; MTSAT and Himawari-8 by JMA; MACC-II/CAMS atmospheric data by ECMWF; MERRA-2 atmospheric data by NASA; GFS data by NOAA.

File identifier	da3b3e43-4a82-ab31-614f-fdd4c1e068e1
Metadata language	eng
Character set	UTF8

Metadata author

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Date stamp	2017-06-27T15:00:00