DNI data and map projects in Southern and Eastern Africa

Riaan Meyer CEO, GeoSUN Africa













GHI applies to PV

DNI applies to CSP (and also CPV)

Global Horizontal Irradiance (GHI)

2200

2000

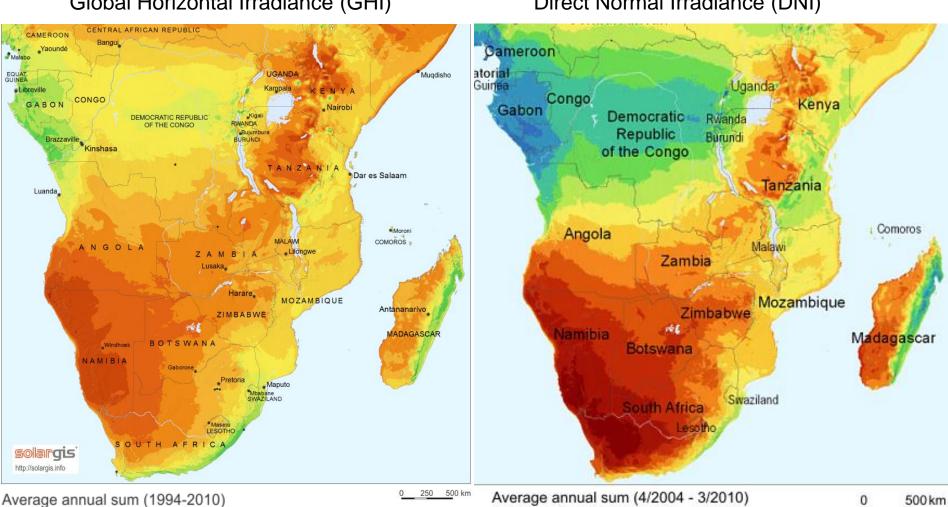
2400 >

kWh/m²

< 1600

1800

Direct Normal Irradiance (DNI)



< 800

1200

1600

2000

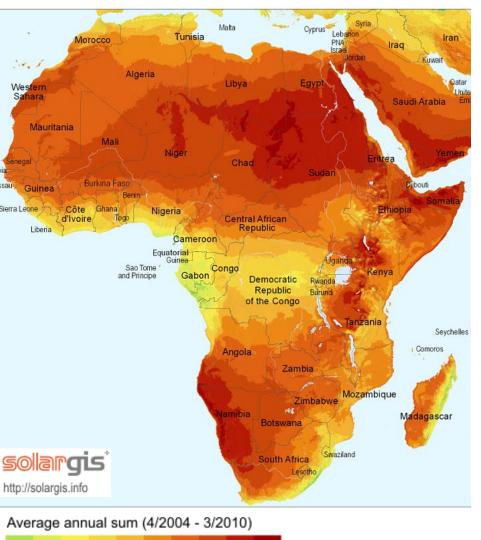
2400

2800 > kWh/m²

2012 GeoModel Solar s.r.o.

GHI applies to PV

Global Horizontal Irradiance (GHI)



1800

< 1600

2000

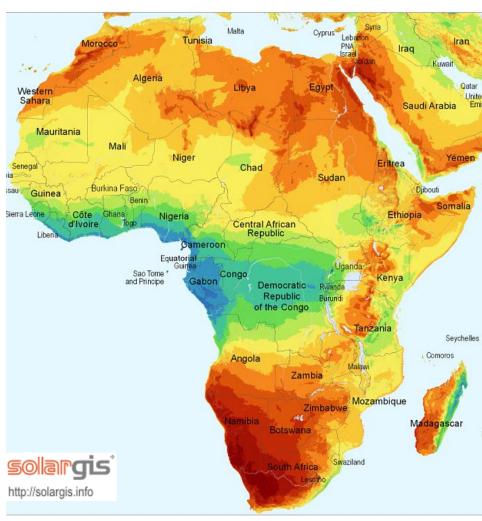
2200

2400 >

kWh/m²

DNI applies to CPV (and also CSP)

Direct Normal Irradiance (DNI)



Average annual sum (4/2004 - 3/2010)

1600

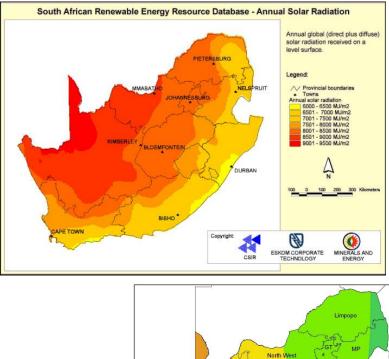
2000

2400

2800 >

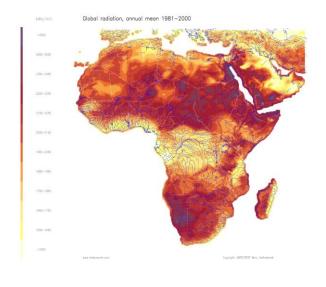
1200

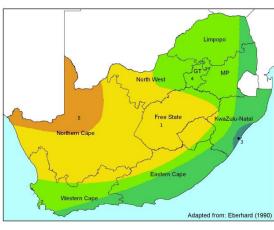
< 800

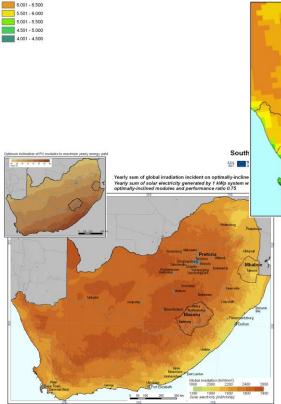


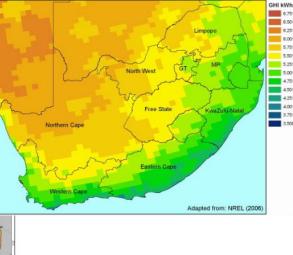


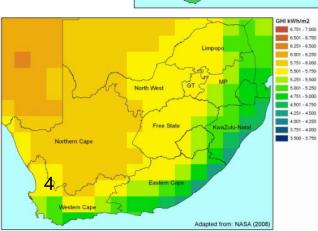
GHI kWh/m2



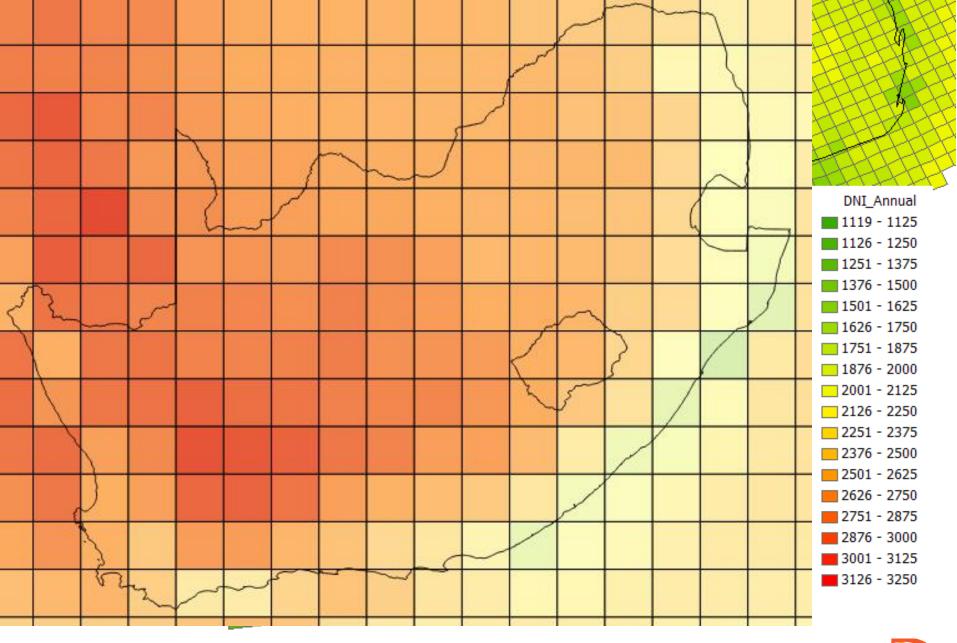






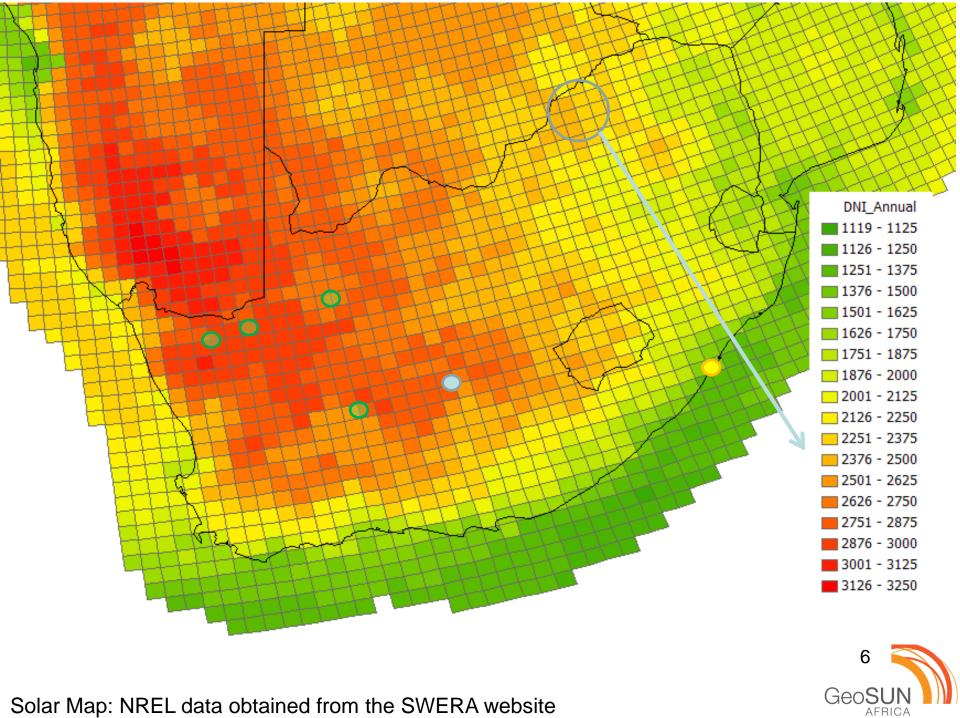




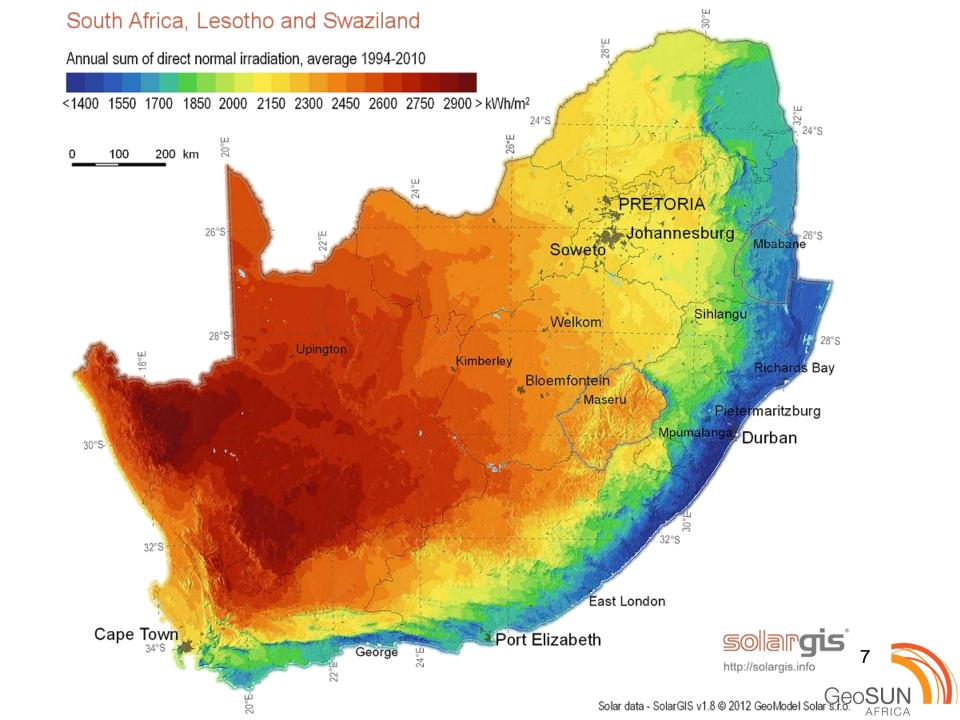


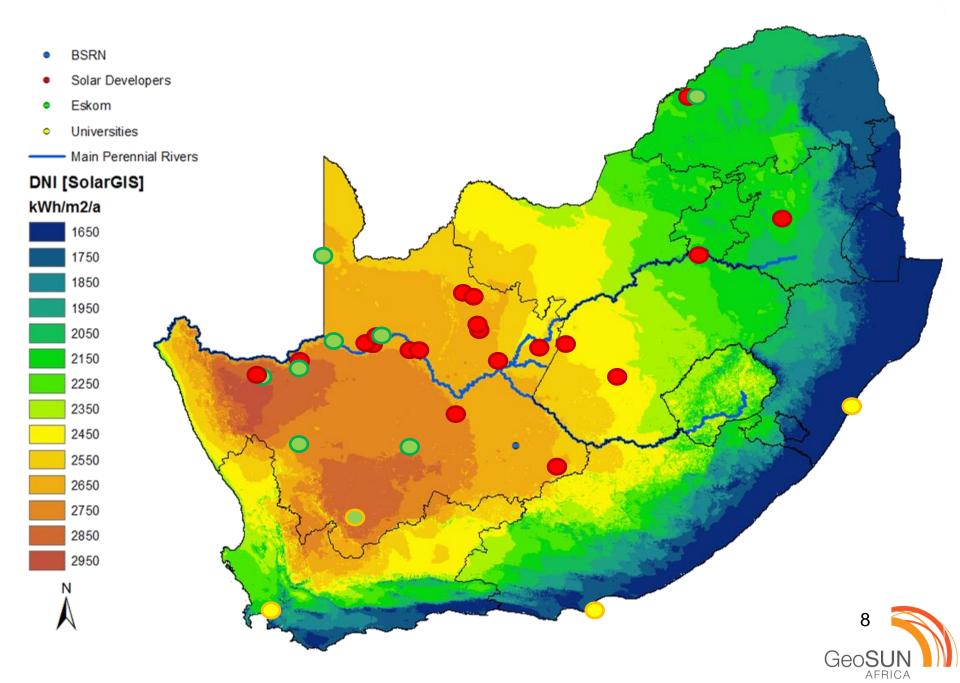


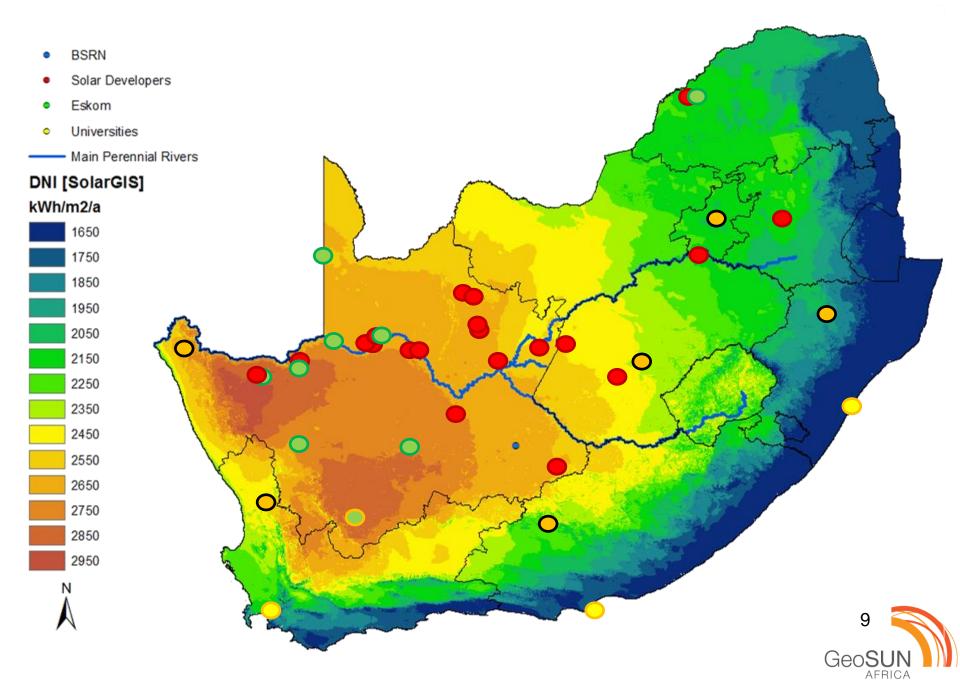
Solar Map: NREL data obtained from the SWERA website

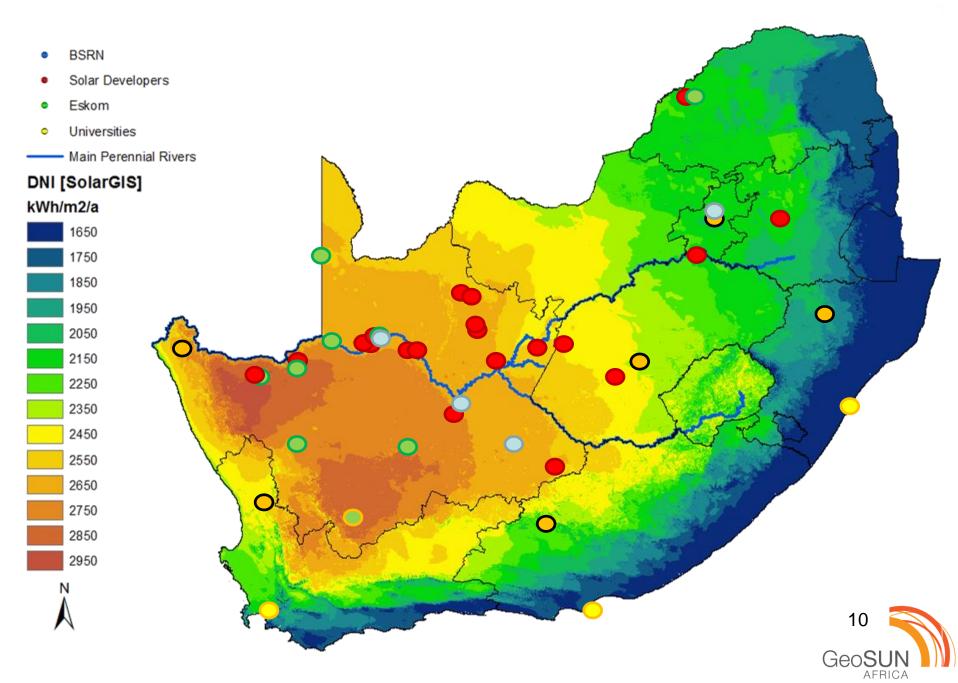


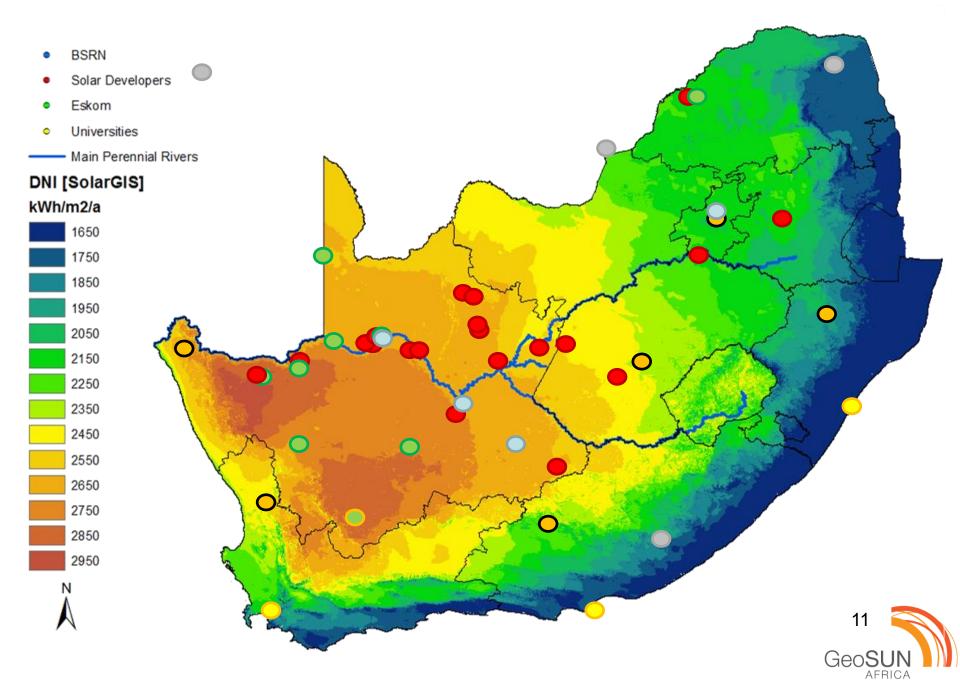
Solar Map: NREL data obtained from the SWERA website

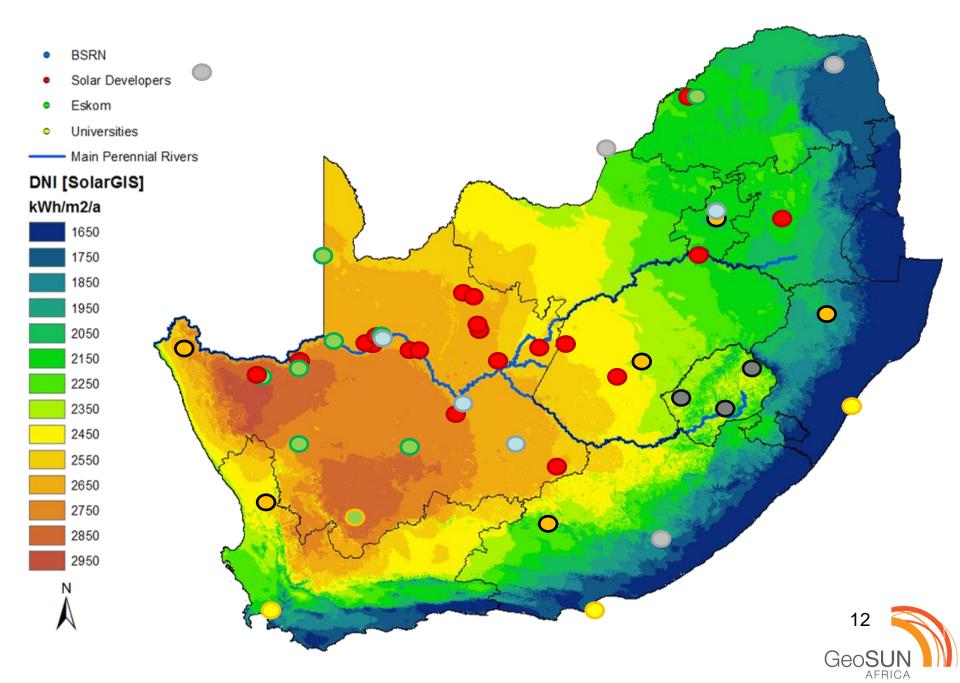












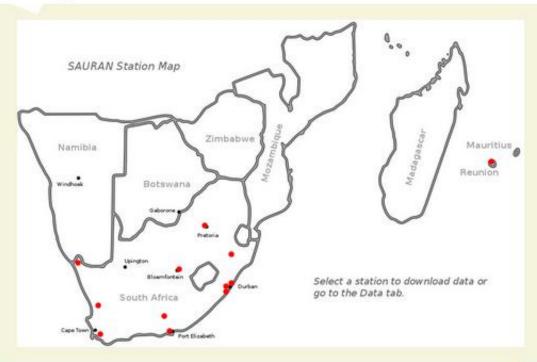
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Southern African Universities Radiometric Network

Solar Radiometric Data for the Public

















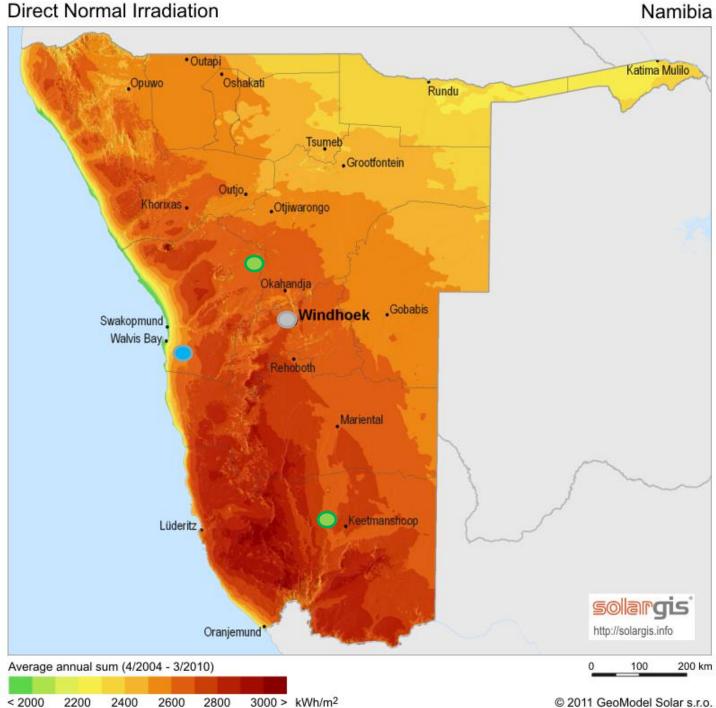




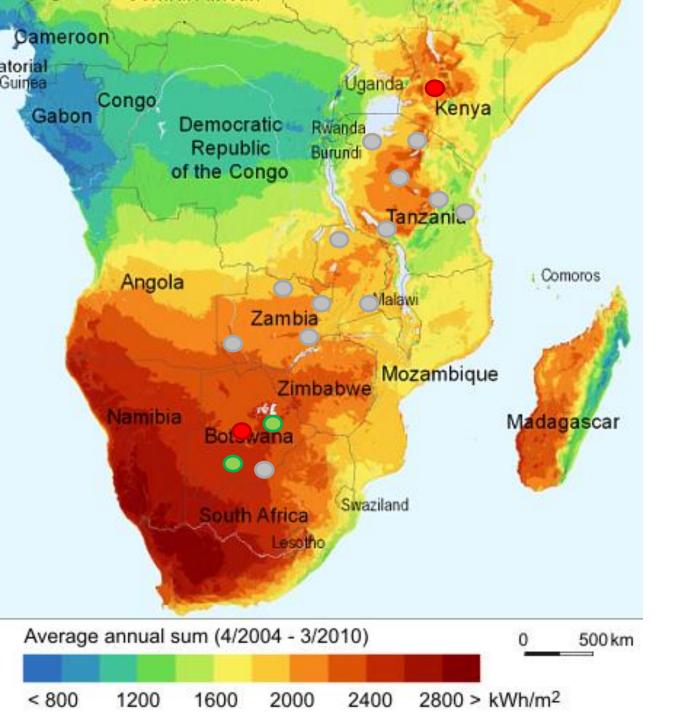




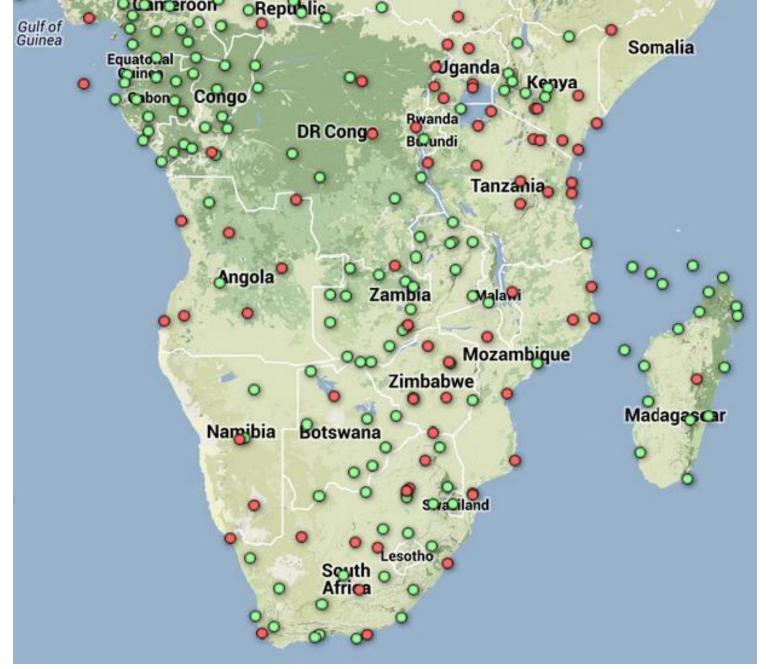














meteorological stations without irradiation measurement

GeoSUN





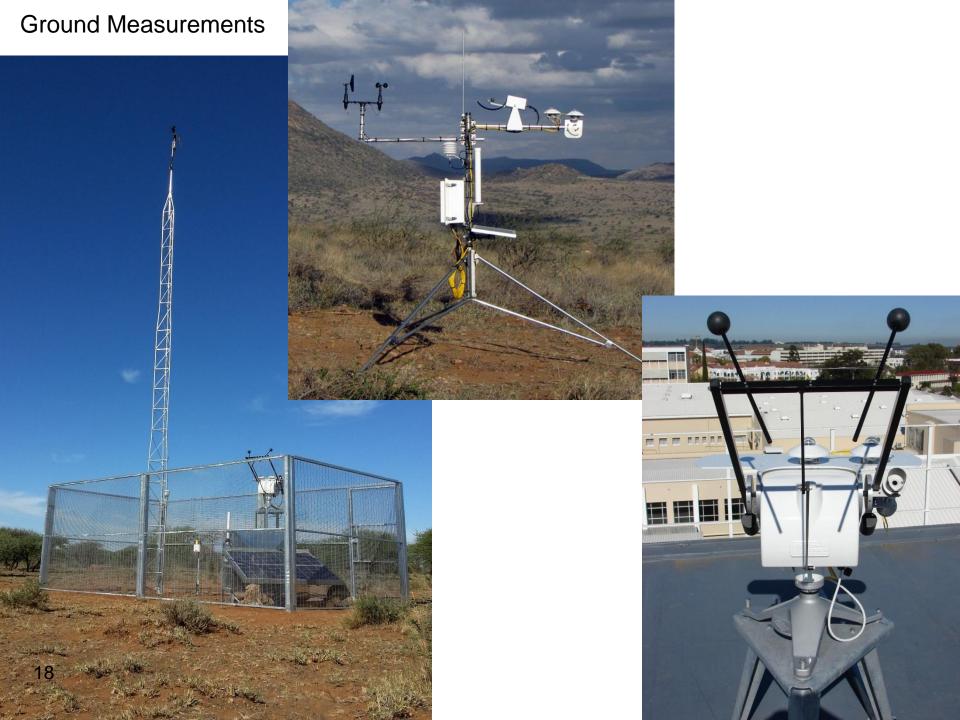




Ground Measurements in Tanzania

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AFRICA



Thank you for your attention

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