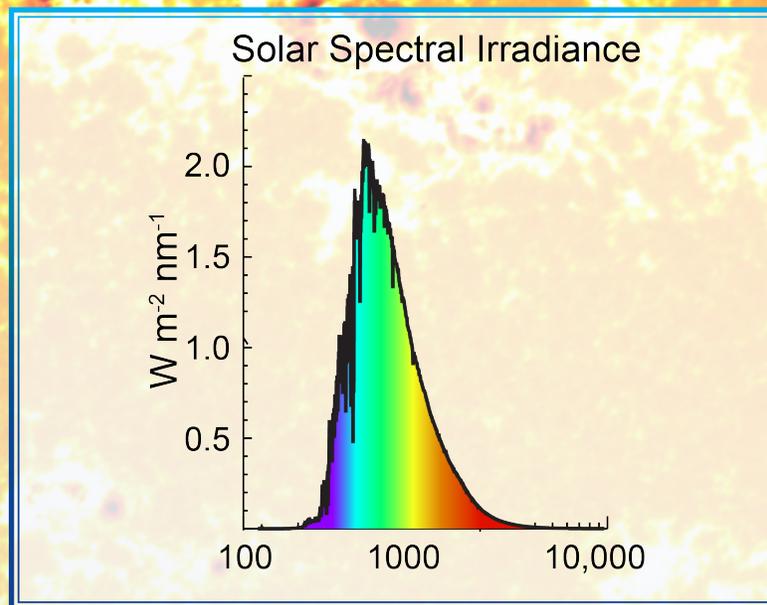


NOAA's Climate Data Record (CDR) Program

SOLAR SPECTRAL IRRADIANCE

SSI



SSI CLIMATE DATA RECORD SPECIFICATIONS

- Global coverage
- Daily product, monthly and annual average product
- 1610–present (annual average)
- 1882–present (daily and monthly-averaged)
- Updated quarterly

INPUTS TO THE SSI CLIMATE DATA RECORD

- Solar activity indices (Mg II index & USAF white-light sunspot regions)
- Wavelength-dependent linear regression coefficients

SOME USES OF THE SSI CLIMATE DATA RECORD

- Improve understanding of surface, atmosphere and ocean responses to spectral distribution of solar energy and its variability
- National and international climate change assessments (e.g., IPCC)
- Atmospheric chemistry assimilation modeling
- Community radiative transfer modeling
- Ozone data processing
- Testing and calibrating advanced-technology photovoltaic cells

SSI CLIMATE DATA RECORD

<http://www.ncdc.noaa.gov/cdr/operationalcdrs.html>

CLIMATE DATA RECORD PROGRAM INFORMATION

<http://www.ncdc.noaa.gov/cdr/index.html>



www.climate.gov
www.ncdc.noaa.gov

Protecting the past... Revealing the future

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