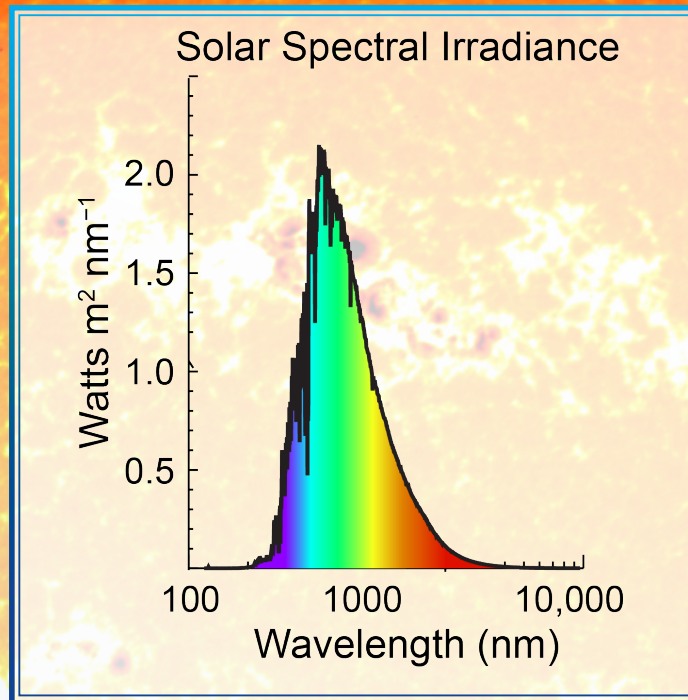




# SOLAR SPECTRAL IRRADIANCE



## CLIMATE DATA RECORD SPECIFICATIONS

- Global coverage
- 3785 spectral bands from 115.5 nm to 99.975  $\mu\text{m}$
- Daily product, monthly and annual average product
- 1610–present (annual average)
- 1882–present (daily and monthly-averaged)
- Updated quarterly

## VARIABLES TO THIS

### CLIMATE DATA RECORD

- Daily solar spectral irradiance
- Monthly averaged solar spectral irradiance
- Yearly averaged solar spectral irradiance

## SOME USES OF THIS

### CLIMATE DATA RECORD

- National and international climate change assessments (e.g., IPCC)
- Top-of-atmosphere boundary constraint for global and stratospheric models
- Community radiative transfer modeling
- Ozone data processing
- Renewable energy resource allocation
- Testing and calibrating advanced-technology photovoltaic cells

### SOLAR SPECTRAL IRRADIANCE

<https://www.ncdc.noaa.gov/cdr/atmospheric/solar-spectral-irradiance>

### CLIMATE DATA RECORD

#### INFORMATION:

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

## NOAA's Climate Data Record (CDR)



[www.climate.gov](http://www.climate.gov)  
[www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)