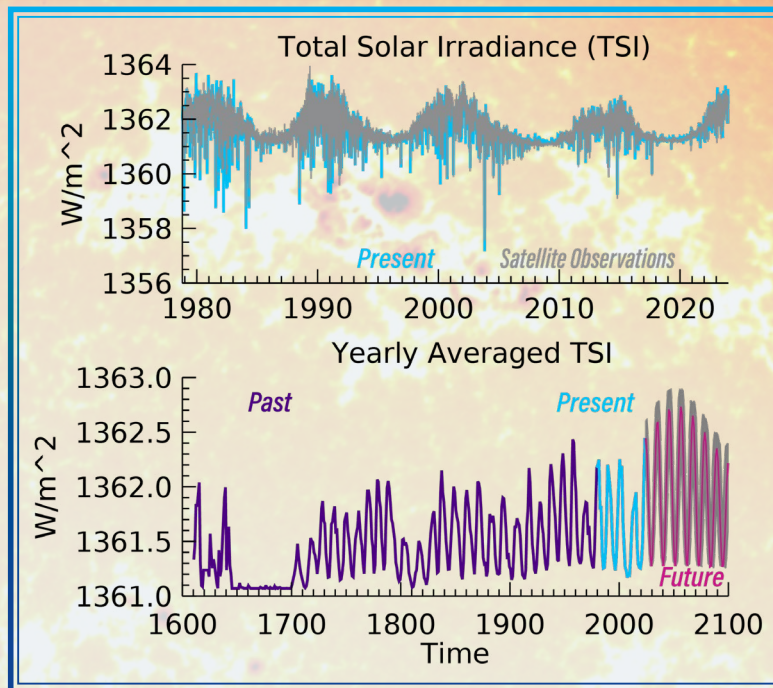




# Total Solar Irradiance



## CLIMATE DATA RECORD SPECIFICATIONS

- Global coverage
- Daily product, monthly and annual average product
- 1610–present (annual average)
- 1874–present (daily and monthly-averaged)
- Updated quarterly

## VARIABLES TO THIS

### CLIMATE DATA RECORD

- Daily total solar irradiance
- Monthly averaged total solar irradiance
- Yearly averaged total solar irradiance

## CLIMATE DATA RECORD INFORMATION:

<https://www.ncei.noaa.gov/products/climate-data-records>

## 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
- Solar forcing dataset used in climate model intercomparisons
- Testing and calibrating advanced-technology photovoltaic cells

## TOTAL SOLAR IRRADIANCE

<https://www.ncei.noaa.gov/products/climate-data-records/total-solar-irradiance>

# NOAA's Climate Data Record (CDR)