Total Solar Irradiance (TSI)

TSI Climate Data Record Specifications

• Global coverage

• Daily Product, Monthly and Annual Average Product

• 1610-1881 (annual-average), 1882-present (daily & monthly- and annually-averaged)

• Updated Quarterly

**Inputs to the *TSI* Climate Data Record**

• Solar Activity Indices (Mg II index & USAF White Light sunspot regions)

• Bolometric linear regression coefficients

**Some Uses of the *TSI* Climate Data Record**

• Top –of-atmosphere boundary constraint for global and stratospheric climate models

• Top-of-atmosphere boundary constraint for stratospheric process models

* General Circulation Climate Modeling
* National and International Climate Change Assessments (e.g., IPCC)
* Community Radiative Transfer Modeling

• Ozone data processing

• Improve Renewable Energy Resource Allocation

• Testing and calibrating advanced-technology photovoltaic cells