

Solar Spectral Irradiance during WHPI and Comparison to WHI and WSM

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Solar Spectral Irradiance (SSI) has been measured on a daily basis by the Solar Radiation and Climate Experiment (SORCE) since 2003 and by the Thermosphere Ionosphere Mesosphere Energetics Dynamics (TIMED) mission since 2002. This includes observations during the solar cycle minimum campaigns in 2019 for the Whole Heliosphere Planetary Interactions (WHPI) as well as in 2008 for the Whole Heliosphere Interval (WHI) during the previous minimum (Woods et al., 2009, GRL, 36, L01101). SSI measurements in 1996 during the Whole Sun Month (WSM) campaign are also available from the SSI instruments on the Upper Atmosphere Research Satellite (UARS). In addition to the SORCE and TIMED observations for the WHPI campaign, we will also show data from the Total and Spectral Irradiance Sensor (TSIS) Spectral Irradiance Monitor (SIM) in the 240-2400 nm range. The SSI during these minimum activity levels provide knowledge of the long term changes in the quiet Sun over three solar cycles.