

SC 24 vs SC 23: A Decreased EUV Irradiance Measured by SOHO/SEM and TIMED/SEE

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Solar extreme ultraviolet (EUV) irradiances from spectral bands centered at a strong emission line of 30.4 nm measured by SOHO/CELIAS/SEM and TIMED/SEE are compared and analyzed. The irradiances from the two instruments are in good agreement (~ 5% for Solar Cycle 22/23 minimum and about 12% for December 2017) and show significantly lower Solar Cycle (SC) 24 as compared to the SC 23. The decrease of the SEM EUV irradiance continues toward the SC 24/25 minimum. SEM irradiance measured for up to February 2018 is lower than the Solar Cycles 22/23 (1996) and 23/24 (2008-09) minima.