

The GOES-R Extreme Ultraviolet and X-ray Irradiance Sensors (EXIS)

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This presentation will describe the measurements and data products from the GOES-R series Extreme Ultraviolet and X-ray Irradiance Sensors (EXIS). It will also discuss ways in which SORCE SOLSTICE has been key in ultraviolet calibrations for GOES satellites. The first two (of four) GOES-R satellites launched in 2016 and 2019. The EXIS Extreme Ultraviolet Sensor (EUVS) measures irradiances for 7 solar lines and Mg II. EUVS products include irradiances and a solar spectral model from 5-127 nm. The EXIS X-ray Sensor (XRS) measures the two traditional GOES XRS bands that have been measured since 1974 but the flux calibrations for the new and earlier GOES satellites have been recently revised.