Initial validation of UARS SOLSTICE and SUSIM. Ratio of each instrument to mean of all measurements on that day. Updated to use current data versions. Woods et al. (1996)

UARS SOLSTICE degradation tracking includes one-day hits, loss of tape recorder, and finally loss of star trackers.

Data from UARS SOLSTICE currently available: FUV—full mission with occasional gaps MUV—up to end of 1999.

Comparison to UARS SOLSTICE and SUSIM. Curve with asterisks represents differences between the instruments from 1992 (see figure at top left).

Comparison to other current MUV irradiance datasets. Agreement between SIM and UARS SOLSTICE is artificial below 250 nm. Disagreement between SORCE and UARS SOLSTICE is larger than uncertainty shown in top plot of this panel.

SORCE SOLSTICE tracks SUSIM, UARS SOLSTICE does not.


Sampling of FUV time series showing SUSIM, SOLSTICE I and SOLSTICE II. Agreement is sometimes good, sometimes bad, and sometimes just plain ugly. Further analysis is required to make a single consistent dataset.

Both SOLSTICES are consistent relative to SUSIM.